4-16-25

FULL SIZE

3.1 Mailbox Turnout in Curb and Gutter Section
4.1 PC Concrete Islands and Medians Accessible to the Disabled
5.1 Standard Outlet for Curb and Gutter
6.1 Precast Reinforced Concrete Flat Slab Top Centered and Offset Manhole - 36" Opening
11.1 Concrete End Sections for Parallel Pipe Culverts 15” thru 84” Dia.
12.1 Concrete End Sections for Parallel Pipe Arch Culverts 15” thru 84” Dia.
14.1 Traversable Pipe Grate for Parallel Drainage Structure
20.1 Hot-Mix Asphalt Approaches and Mailbox Returns
25.1 Entrance Approaches – Urban Area
26.1 ADA Curb Ramp Pavement Removal And Replacement
32.1 Sewer and Water Main Crossings
33.1 Concrete Collars for Pipe or Box Culvert Extensions
34.1 Work Zone Sign Details
35.1 Urban Lane Inside Closure, Multilane, 2W, with Mountable Median
36.1 Temporary Road Closure Expressway
37.1 Traffic Control for Three Lane Section
38.1 Traffic Control for Transition Areas
39.1 Traffic Control Typical Weave
40.1 Traffic Control for Road Closure
41.1 Typical Pavement Markings
53.1 Remove and Re-erect Steel Plate Beam Guardrail
54.1 Traffic Barrier Terminal, Type 2 (27” height)
55.1 Reflectors (Special)
68.1 Slotted Drain Pipe (Variable Height)
71.1 Detail of Flood Gate
72.1 40’ Single Lane Median Crossover (45 mph Work Zone Speed Limit)
73.1 50’ Single Lane Median Crossover (45 mph Work Zone Speed Limit)
74.1 64’ Single Lane Median Crossover (45 mph Work Zone Speed Limit)
75.1 40’ Single Lane Median Crossover (55 mph Work Zone Speed Limit)
76.1 50’ Single Lane Median Crossover (55 mph Work Zone Speed Limit)
77.1 64’ Single Lane Median Crossover (55 mph Work Zone Speed Limit)
78.1 88’ Single Lane Median Crossover (55 mph Work Zone Speed Limit)
79.1 40’ Two Lane Median Crossover (45 mph Work Zone Speed Limit)
80.1 50’ Two Lane Median Crossover (45 mph Work Zone Speed Limit)
81.1 64’ Two Lane Median Crossover (45 mph Work Zone Speed Limit)
82.1 40’ Two Lane Median Crossover (55 mph Work Zone Speed Limit)
83.1 50’ Two Lane Median Crossover (55 mph Work Zone Speed Limit)
84.1 64’ Two Lane Median Crossover (55 mph Work Zone Speed Limit)
85.1 88’ Two Lane Median Crossover (55 mph Work Zone Speed Limit)
86.1 Beveled Pipe & Guard Detail for Median Crossover
90.1 Traffic Barrier Terminal, Type 6B (Special)
92.1 Details of Planting and Bracing Trees

District 2 Standards Designer Notes
Full Size District 2 Standards

3.1 Use when a mailbox turnout is needed in a curb & gutter section and there isn't a parking lane or a mail delivery lane.

4.1 Use this when there are cross walks that will go through an island or median. Specify which option the contractor is required to use when building the Concrete Median (Special).

5.1 Use this when you need an outlet for curb and gutter, other than type B-6.24

11.1 This is to be used for pipe culverts, Class D under all sideroads.

12.1 This is to be used for EQRS pipe culverts, Class D under all sideroads.

14.1 Use this whenever you use District Standards 10.1, 11.1 & 12.1 and the culvert is within the main line clear zone.

20.1 Include for rural entrances and sideroads on 3R projects, reconstruction projects, or for new entrances. Do not include on 3P or Smart resurfacing projects.

25.1 Include for urban entrances with curb & gutter on 3R projects, reconstruction projects, or for new entrances. Do not include on 3P or Smart resurfacing projects.

26.1 Use this on all projects with ADA curb ramps requiring HMA replacement in front of curb & gutter.

32.1 Include in urban projects with proposed storm sewers or water mains.

33.1 Use this for pipe or box culvert extensions. Fill in the information in the table for the Bill of Materials.

34.1 Work Zone Sign Details. Include this when you have any of the following:

- Include in projects where the clear width through a work zone with temporary concrete barrier wall will be 16.0 feet or less.
- Include when using Traffic Control and Protection Standard 701316 or 701321.
- Use this in conjunction with the special provision Traffic Control for Narrow Lanes which is under the Traffic Control Plan. Use this on one-lane stage construction jobs when the lane is less than 13'-6" measured from the toe of the barrier wall to the guardrail or bridge wall.
- Use this when using District Standard 37.1 and 38.1.
- Use this on low volume entrances that are between the traffic signals on Highway Standard 701316 or 701321.
- Include this for any milling of the mainline pavement.

35.1 Use this when it is necessary to close the inside lane on an urban project. Also include Highway Standard 701606 and the pay item for 701606.

36.1 Use this district standard for any short term closure of an expressway at a diamond interchange.

District 2 Standards Designer Notes

37.1	Use this district standard for work that will require a lane closure in a three lane section such as a truck climbing lane.
38.1	Use this district standard when there is a transition from a four lane section that transitions to a two lane section.
39.1	Include on 4 lane highways where the contractor may change a portion of the work to the opposite lane.
40.1	Include for a mainline road closure.
41.1	Include in projects with pavement marking or raised reflective pavement markers.
53.1	Use this to remove and re-erect an old type steel plate beam guardrail which has 6” block outs and a 27½” rail height.
54.1	Use this when installing a Traffic Barrier Terminal, Type 2 on the old type of steel plate beam guardrail with a 27½” rail height.
55.1	This will be used on all projects with guardrail, permanent barrier wall and bridge structures. Use pay items: - X7820007 Guardrail Reflectors, Type C (Special) - X7820008 Barrier Wall Reflectors (Special) - X6350110 Delineators (Special) (**Do not** use the pay items Guardrail Reflectors Type A & B or Barrier Wall Reflectors Type B & C)
68.1	This can be used to increase drainage in curb & gutter with very flat grades (less than 0.3%). Also include this when constructing median crossovers.
71.1	Use if a property owner has a fenced field with livestock and a stream or river. The flood gate will be placed near the right-of-way to prevent livestock from leaving the field through the waterway. During high water, the flood gate will open to let water and debris through.
72.1, 73.1, 74.1, 75.1, 76.1, 77.1, 78.1	Use on single lane median crossovers of the median width specified and for the work zone speed limit. Include District Standard 86.1. If there are overlays on the existing PCC pavement, installing tie bars into the existing PCC pavement will not work. Talk to the Construction Field Engineer or your Project Engineer for more information.
79.1, 80.1, 81.1, 82.1, 83.1, 84.1, 85.1	Use on two lane median crossovers of the median width specified and for the work zone speed limit. Include District Standard 86.1. If there are overlays on the existing PCC pavement, installing tie bars into the existing PCC pavement will not work. Talk to the Construction Field Engineer or your Project Engineer for more information.
90.1	Use this on 4-lane highways that go under dual structures and the piers required shielding. The outside of the piers are shielded with impact attenuators. The gap between the piers is shielded using Traffic Barrier Terminal Type 6B (Special). The Traffic Barrier Terminal Type 6B (Special) is

required on both sides of the piers.
Design Note: The **length** of the double thrie beam between the piers **must be added on the elevation on the District Standard**.

92.1 Include when planting new ball & burlapped trees.

½ SIZE

10.2 Inlets, Special
11.2 Inlets, Special (Type A Gutter)
12.2 Double Inlet, Special
13.2 Frame & Grate for Inlets, Special
13.2a Frame & Grate for Inlets, Special
13.2b Frame & Grate for Inlets, Special
13.2c Frame & Grate for Inlets, Special
13.2d Frame & Grate for Inlets, Special
14.2 Inlets, Special, No. 1
15.2 Inlets, Special, No. 2
20.2 Standard Inlet for Type A Gutter (Special)
21.2 Standard Inlet for Curb & Gutter
30.2 Field Tile Junction Vaults 2' and 3' Dia.
31.2 Treatment of Field Tile Systems Under Ditches
32.2 Sign Panel - Type 1 (Special)
33.2 Special Drainage Outlet
34.2 Inlet Stand Pipe
35.2 Guardrail Erosion Control Treatments
36.2 Paved Ditch (Special)
37.2 Underdrain for Across Road (AR) Culverts
44.2 Reserved Parking Sign Detail
45.2 Superelevation Transition on Two-Lane Highway
46.2 Hot-Mix Asphalt Approaches and Mailbox Returns for Single Lift (SMART) Resurfacing Projects
47.2 Hot-Mix Asphalt Approaches and Mailbox Returns for Two Lifts (3P) Resurfacing Projects
48.2 Safety Edge (SMART Projects)
49.2 Safety Edge (3P Projects)
60.2 Deleted 4-15-15
61.2 Slotted Drain Pipe for Type A Gutter (Special)
63.2 Pipe Handrail for Steps
64.2 Pipe Handrail, Special – for Retaining Walls
66.2 Permanent Survey Markers, Type II
73.2 Automatic Flap Gate
81.2 Riprapped Culvert Energy Basin
89.2 Termination of Dead End Roads
90.2 Mechanical Joints for Concrete Pipe and Box Culverts
93.2 Typical Aggregate Base Sideroad
94.2 Traffic Control & Protection at Turn Bays (To Remain Open to Traffic)

½ Size District 2 Standards

10.2	This is used for drainage in a curb & gutter section. The diagonal grate is included in the cost. The diagonal grate is bicycle safe. If the inlet is in a driveway which has a depressed curb, the grate on the bottom left hand side will be used. The cost of this grate is also included in the cost of the inlet special. When using this do not include 13.2, 13.2a, 13.2b, 13.2c or 13.2d.
11.2	This is used for drainage in a Type A gutter. The grate is included in the cost of the inlet.
12.2	This is used when extra inlet capacity is needed. For example, in a sag condition.
13.2 13.2a 13.2b 13.2c 13.2d	These are different types of frame & grates for inlet specials. One of these can be used to replace broken frame & grates on inlets to be adjusted or reconstructed. Select the one that matches the existing. All of them are bicycle safe.
14.2	This has been used in medians where the gutter flag is less than 24”.
15.2	This has been used in medians where the curb is only 2”± high. For example, near the nose of a ramped median.
20.2	Use this on the inlet end of Type A Gutter (Special)
21.2	Use this on the inlet end of Combination Concrete Curb & Gutter
30.2	If there is existing field tile on your job or think there could be field tile, include this standard. Also include a pay item for junction vaults.
31.2	If there is storm sewer or field tile under a ditch with 24” or less of cover, include this standard. Include the pay item for Miscellaneous Concrete.
32.2	Use this where the bridge is less than 24” wider than the roadway surface. This is very rare on a state route, but should be used on bridges on detour routes on County or Township roads.
33.2	This is a special drainage outlet to be used on existing pavements with drainage problems. The existing underdrains might not be working, or there is water pumping out of the joint between the pavement and shoulder.
34.2	This can be used to replace existing field tile stand pipes. The existing stand pipe is usually an orange perforated 6” pipe, 24” to 36” high, near the outlet end of a culvert. This could also be a new installation if requested by the property owner during Phase I or during negotiations.

35.2 This is an erosion control treatment at guardrail that Operations has used for years. The downside is the erosion control curb tends to further tilt the guardrail over time. This can be used to replace existing erosion control curb or at selected locations. A better treatment for slopes at guardrail is Perimeter Erosion Barrier, Special (Dist. Std. 8.4).

36.2 Paved ditch is rarely used in District 2. It tends to crack and water seeps under the concrete, causing it to be undermined. Once undermined it collapses, causing an erosion problem. Where it can be used is on very flat ditch grades, less than 0.2%. In this case, velocity is low, but the paved ditch could silt in. Operations could clean the paved ditch and the paved ditch establishes the grade line.

37.2 Include when installing or removing across road culverts in sags or on grades greater than 2%. The purpose of this is to prevent water pumping out of the joints of the pavement patch. Add the pay items for Pipe Underdrains, Type 2 and Concrete Headwalls for Pipe Drains.

44.2 This is to be used on all disabled parking stalls.

45.2 Include this on projects that correct existing superelevations, or on new pavements on superelevations. Not to be used on 3P or Smart projects because existing superelevations are not changed.

46.2 Include this on all Smart resurfacing projects.

47.2 Include this on all 3P resurfacing projects.

48.2 Include in Smart resurfacing projects with paved shoulders 3’ or less.

49.2 Include in 3P resurfacing projects with paved shoulders 3’ or less.

60.2 Deleted 4-15-15

61.2 This can be used to increase drainage in curb & gutter or Gutter, Type A (Special) where the longitudinal grade is less than 0.3%. Use 68.1 when constructing median crossovers.

63.2 Include this when constructing new steps.

64.2 Include this when handrails are needed on retaining walls. Not all retaining walls need handrails. Retaining walls that are supporting and adjacent to sidewalks or parking lots usually need a handrail. Landscaping walls to retain earth in front of a house usually don’t need handrails.

66.2	Include this when using the pay item for Permanent Survey Marks. Do not include Highway Standard 667101 because Standard 66.2 is 5' deep and requires a witness marker.
73.2	Use this on entrance pipes or berm pipes adjacent to a river or canal. This will prevent water from the river or canal backing up into the ditch.
81.2	This is one option to control erosion at the ends of culverts with very high velocities. There is a design process to determine the dimensions in the chart. Consult with the Hydraulics Engineer on its use.
89.2	Include this at the end of dead end roads like a cul-de-sac or hammer head turn around.
90.2	Use this at locations where pipe culverts or box culvert joints could separate. Most culverts do not require the ties, so this is rarely used. One application is where the culvert outlets into a river. There could be erosion at the end of the culvert so the end section or sections of the culvert could tip or fall off. In this case, only the last one or two sections were tied.
93.2	Include this when sideroads are constructed with 3"± of incidental on an aggregate base and the mainline has 8" HMA shoulders. This standard includes 4' HMA shoulders on the sideroad return, which will be placed monolithically when the return is resurfaced.
94.2	Include this on multi-lane roads when the traffic lane is closed adjacent to a left or right turn lane and the turn lane is to remain open to traffic.

2-28-23

¼ SIZE

8.4 Perimeter Erosion Barrier, Special
11.4 Concrete Curb (Special)
12.4 Concrete Curb (Special) (Adjacent to Resurfacing)
13.4 Combination Concrete Curb & Gutter, Type ____, Special
15.4 Gutter Outlet Adjacent to Stabilized Shoulders
16.4 Concrete Gutter, Type A, with Flume
17.4 Catch Basins or Inlets to be Adjusted or Reconstructed
18.4 Curb & Gutter Outlet, Special
19.4 Riprap at End Sections
19.4a Concrete Revetment Mat at End Sections
20.4 Grading Around Wingwalls
21.4 Aggregate Ditch for Flexible Ditch Lining
22.4 Hot Mix-Asphalt Shoulder
23.4 Detail of Hot-Mix Asphalt Shoulder at Guardrail
24.4 Pavement Breaking Detail
27.4 Concrete Headwalls for Pipe Underdrains for Structures
28.4 Cast-in-Place Reinforced Concrete End Sections
29.4 Silicone Joint Seal (Concrete Details)
30.4 Stone Wells, Special
31.4 Parking Blocks
32.4 Pavement Patching for Hot-Mix Asphalt Surfaced Pavement
33.4 Pavement Patching Detail
34.4 Thrust Block Details
35.4 Sidewalk and Driveway Pavement Pay Areas
36.4 Concrete Gutter, Type A (Special)
37.4 Delineator and Post Orientation
38.4 Edge of Pavement Repair
43.4 Required Cold Milled Surface Texture
44.4 Slab Movement Detection Device
46.4 Aerial Speed Check Zones
50.4 Typical Benching Detail on Existing Embankment
51.4 Typical Construction of Embankments with Granular Material
63.4 Land Section & Reference Markers
70.4 Tree Wall
71.4 Detail of Concrete Steps
79.4 Inlets, Special, No. 3
79.4a Inlets, Special, No. 4
79.4b Inlets, Special, No. 5
79.4c Inlets, Special, No. 6
79.4d Inlets, Special, No. 7
79.4e Inlets, Special, No. 8
79.4f Nose Type for Inlet Top Slab
79.4g Inlets, Special, No. 3, 4, 5, 6 Reinforcement Detail
79.4h Inlets, Special, No. 7 & 8 Reinforcement Detail
80.4 Inlets to be Reconstructed with New Standard 542546 Frame & Grate
83.4 Grate, Special
87.4 Typical Median Crossover Closure (with Emergency Opening)
88.4 Drain for Aggregate Bases in Urban Areas
91.4 Rumble Resurfacing
96.4 Drain for Aggregate Base Course
97.4 Subgrade Replacement
98.4 Typical Median Crossover Closure

¼ Size District 2 Standards

8.4	This can be used on Smart & 3P resurfacing projects to maintain a maximum 9% cross slope on the aggregate shoulder in front of existing guardrail. The guardrail could also be removed and re-erected or replaced if it is extremely tipped, out of alignment, damaged, not to current standards, or the height is more than 3" high or low from the initial standard used to install it. Smart projects are allowed up to 15% of the total contract cost for spot safety improvements. 3P projects can also have spot safety improvements, but both projects require BDE approval. Include pay items for Steel Plate Beam Guardrail, Type A (Special), and Aggregate Wedge Shoulder, Type B.
11.4, 12.4 & 13.4	These can be used when a new median or curb & gutter is placed on bare concrete pavement. This isn't used much because the first thing necessary is bare concrete, and there isn't much bare concrete in our District.
15.4	This is used to replace existing gutter outlets adjacent to a HMA shoulder. District 2 doesn't construct new gutter adjacent to stabilized shoulders; curb & gutter is used. Therefore, when curb & gutter is constructed adjacent to a stabilized shoulder, use Highway Standard 606101.
16.4	This is a specialized gutter outlet. Do not use this on curb & gutter. An example of when it would be used is to outlet the gutter over the top of a culvert headwall.
17.4	Use this standard for adjustment of catch basins or inlets.
18.4	This is a specialized curb & gutter outlet. This can be used when there is a ditch behind the curb & gutter and there aren't any inlets with frame & grate or Winnebago's in the curb & gutter.
19.4	Use this when RIPRAP is required at culvert end section. Check the hydraulic report for the apron length and the size of the riprap to be used. Be sure to show the dimensions on the plans.
19.4a	Use this when concrete revetment mat is required at an end section. There is a table on the standard which needs to be filled out. Check the hydraulic report for the apron length. Be sure to show the dimensions on the plans.
20.4	Use this on across road culverts that have wingwalls that are not parallel with the culvert. This is a guide for the Resident Engineer & Contractor on how to construct the dirt around wingwalls.
21.4	If riprap is needed in ditches to control erosion, use this standard. Specify the pay item for Class A3 or A4. Add the dimensions to the typical section. The height of the riprap on the side slopes should extend approximately 6" higher than the computed depth of water in the ditch.
22.4	Use this for new HMA shoulders. If guardrail will be installed before the surface course is placed, like on staged bridge projects, use District Standard 23.4
23.4	Use this on projects where guardrail will be installed before the surface course is placed. This allows the guardrail to be installed and the shoulder resurfaced to the post so the posts do not have to be removed and re-erected. For example, staged bridge projects require guardrail to be installed for Stage 2, but all of the surface course is placed after the bridge is completed. If new HMA shoulders are constructed and guardrail will be installed after the HMA shoulder is installed, use District Standard 22.4.

24.4 Use this on projects with large changes in vertical alignment from the existing pavement to a new full depth pavement. This will require a thick resurfacing taper, pavement breaking, and variable depth subbase granular material.

27.4 Use this if the pipe underdrain for structures behind the bridge abutment will outlet into the riprap on the bridge cone. If not, use Highway Standard 601101.

28.4 Use this if storm sewer or field tile outlets through the backslope of the ditch. This can also be used for Cast-in-Place Reinforced Concrete End Section 8" or 10".

29.4 Include this standard if #16 Polymer Concrete is checked on the Recurring Special Provision check sheet.

30.4 This can be used in sandy soils to drain areas with poor drainage or no outlets. Materials must take soil borings to determine if the stone well will function properly.

31.4 This can be used in parking lots or for diagonal parking if there isn't a curb or curb & gutter.

32.4 Use this standard for peek-a-boo patching. Peek-a-boo patching is used to remove and replace the existing HMA on top of concrete pavement, up to a maximum of 8" thick.

33.4 Use this standard for pavement patching when the existing HMA overlay thickness is 8" or thicker.

34.4 Include this when constructing new water mains, or moving or relocating fire hydrants. Do not include this for the thrust blocks on Highway Standard 610001.

35.4 Use this standard in urban areas when removing and replacing sidewalk and driveway pavements.

36.4 When constructing concrete gutter, District 2 has a flat bottom gutter which is easier to construct. Do not include Highway Standard 606101. For gutter inlets, include #20.2 Standard Inlet for Type A Gutter (Special), and for outlets include #15.4 Gutter Outlet Adjacent to Stabilized Shoulder.

37.4 Include when installing new delineators. The purpose of rotating the post 180° is to give more support for the delineators so it doesn't break off.

38.4 Include this standard on 3P projects when there are areas along the edge of pavement that are badly deteriorated. Also include the appropriate Recurring Special Provision.

43.4 Include this standard if #13 HMA Surface Correction is checked on the Recurring Special Provisions check sheet. This milling is for surface corrections that will not be resurfaced. To date this has not been used in District 2.

44.4 Include this standard if #12 Subsealing of Concrete Pavements is checked on the Recurring Special Provisions check sheet. This is used with the pay items Dry Grout Solids and Holes Drilled. To date this has not been used in District 2.

46.4 This is used when replacing existing aerial speed check zones on resurfacing projects. Field check the project to determine if any exist.

50.4 Include this when adding embankment on an existing slope that is 4' high or more.

51.4 Use on any project that will be widening the existing embankment, contact Geotech with any questions.

63.4 Include this if Land Sections or ¼ Section Corners will be disturbed. Check with Land Acquisition for the existing section locations.

70.4 This can be used to save a tree on a slope that will be excavated. Usually there is a commitment in the project report to save a tree that requires a tree well.

71.4 Include this detail for installing or replacing steps adjacent to sidewalk.

79.4
79.4a
79.4b
79.4c
79.4d
79.4e
79.4f
79.4g
79.4h
These inlets, known as Winnebago's. No. 3 & 4, can be used with storm sewer up to 36" diameter, No. 5 & 6 can be used with storm sewer up to 24" diameter, No. 7 can be used with storm sewer up to 48" diameter, and No. 8 can be used with storm sewer up to 60" diameter. No. 4 & 6 have open backs for drainage behind the inlets. Do not use Winnebago's with curb & gutter with gutter flags less than 24", it makes the cross slope of the gutter flag too steep. This can be dangerous for bicyclists, or people stepping off of the curb. Instead, use an inlet with a frame & grate to fit the curb & gutter. When using 79.4, 79.4a, 79.4b, or 79.4c, also include 79.4f & 79.4g. When using 79.4d & 79.4e, also include 79.4f & 79.4h.

80.4 This can be used to lower an existing 3' x 3' median inlet.

83.4 Use this to replace broken grates or to replace a grate that isn't bicycle safe. Measure the existing grate to ensure this will fit.

87.4 Use this on permanent median crossovers where an emergency opening is needed. If an emergency opening isn't needed, use District Standard 98.4. Check with Operations to see if an opening is needed.

88.4 Use this in urban areas with new pavement, subbase, and storm sewer. The purpose of this is to drain the subbase.

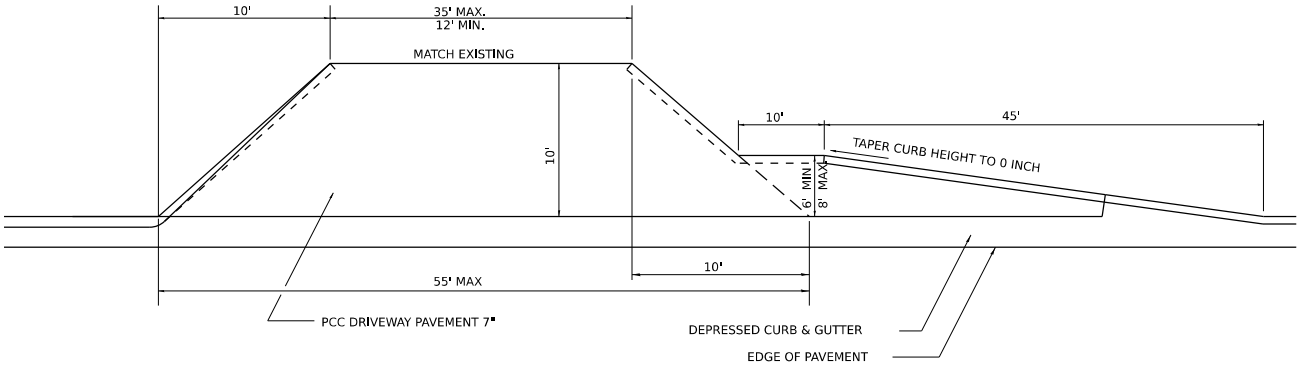
91.4 This is usually used to replace existing rumble strips in the traffic lane before stop signs. It can also be used at new locations to reduce accidents.

96.4 Use this on new pavements with subbase where there will be ditches. Place one in all low points and others at approximately 250' intervals.

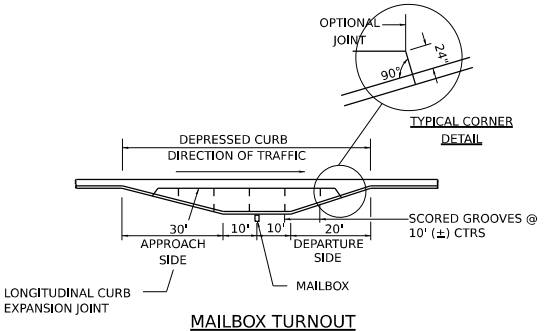
97.4 Include this for full depth patching. The quantity for subgrade replacement will be approximately 10-20% of the area of the full depth patches. Remember to include the BDE special provision for Aggregate Subgrade Improvement.

98.4 Use this on permanent median crossovers where an emergency opening is not needed. If an emergency opening is needed, use District Standard 87.4. Check with Operations to see if an opening is needed.

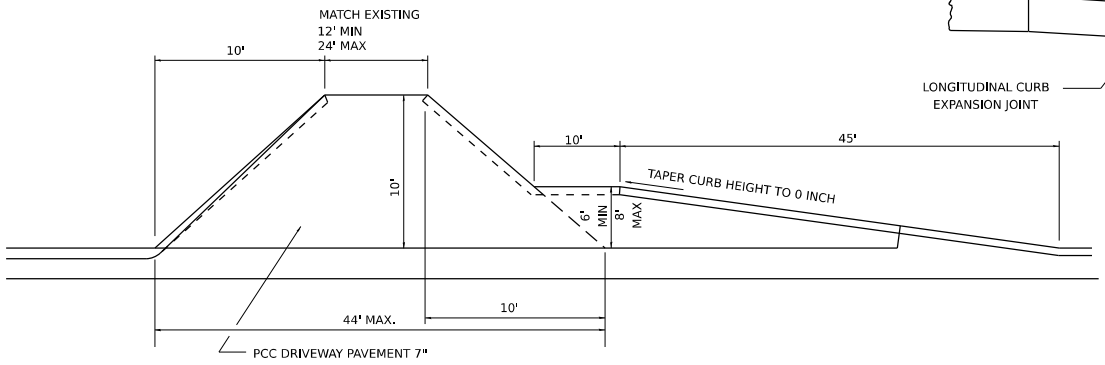
MAILBOX TURNOUT IN CURB AND GUTTER SECTION



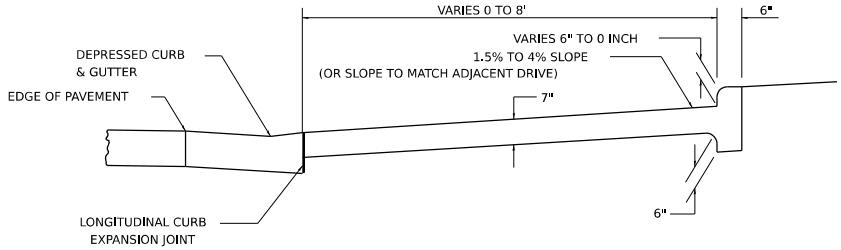
COMMERCIAL ENTRANCE WITH MAILBOX TURNOUT



MAILBOX TURNOUT



PRIVATE ENTRANCE WITH MAILBOX TURNOUT



TYPICAL CROSS SECTION

GENERAL NOTES

1.) THE LONGITUDINAL CURB EXPANSION JOINT SHALL CONFORM TO SECTION 1051 OF THE STANDARD SPECIFICATIONS.

2.) THE MAILBOX TURNOUT CROSS SLOPE WILL BE AS SHOWN ABOVE, AS SHOWN ON THE STATION CROSS SECTIONS OR AS DIRECTED BY THE ENGINEER.

3.) THE MAILBOX TURNOUT SHALL BE CONSTRUCTED WITH SCORED GROOVES, AS SPECIFIED IN ARTICLE 423.06 OF THE STANDARD SPECIFICATIONS, AT APPROXIMATELY 10 FT. CENTERS. IN THE EVENT THERE IS EXISTING OR PROPOSED SIDEWALK PRESENT, THESE SCORED GROOVES SHALL BE PLACED IN LINE WITH EVERY OTHER JOINT IN THE ADJACENT SIDEWALK.

4.) THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR P.C. CONCRETE DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED IN THE PLANS WHICH PRICE SHALL INCLUDE THE LONGITUDINAL CURB EXPANSION JOINT AND MONOLITHIC CURB AS SHOWN, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

5.) SEE THE DISTRICT STANDARD 25.1 FOR ADDTIONAL DETAILS.

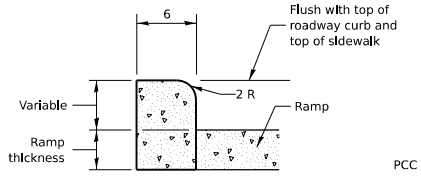
6.) MAILBOXES SHALL BE INSTALLED TO CURRENT UNITED STATES POSTAL SERVICE MAILBOX GUIDELINES.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

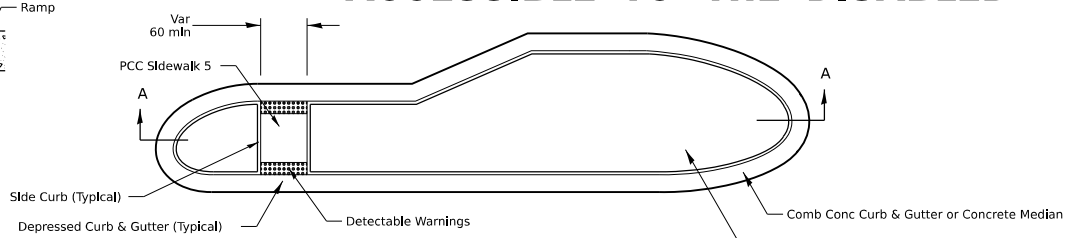
MODEL: 3d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-10-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-03-18			
	CHECKED -	REVISED - 10-17-11		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

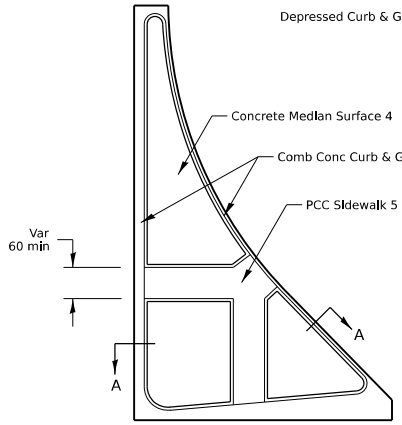
PC CONCRETE ISLANDS AND MEDIANS ACCESSIBLE TO THE DISABLED



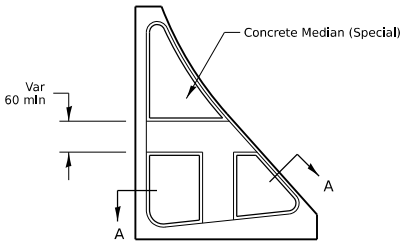
SIDE CURB DETAIL



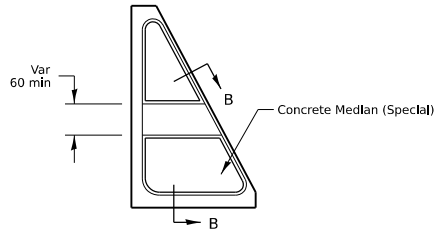
TYPICAL PLAN OF MEDIAN ISLAND



LARGE ISLAND
(Free Flow Design)

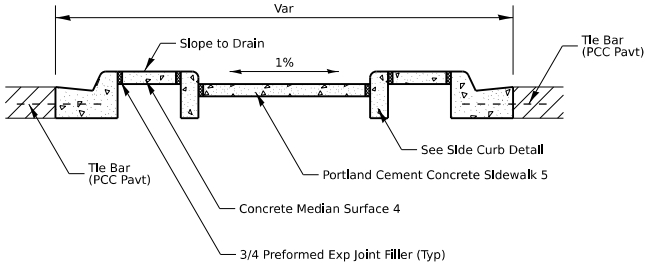


INTERMEDIATE ISLAND
(For Right Turn Lane Design)

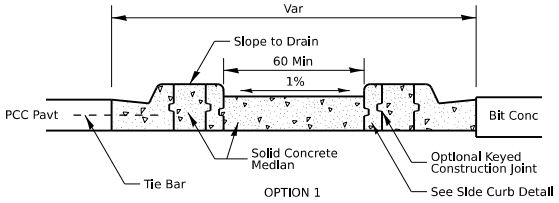


SMALL ISLAND
(For Typical Design)

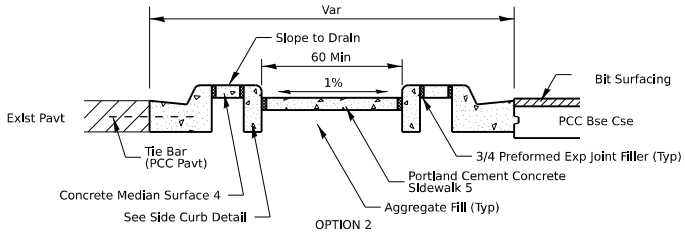
SECTION A-A



SECTION B-B



OPTION 1



OPTION 2

General Notes:
See Standard 606301 and plan sheets for station & offsets, radii, dimensions, and details not shown.

See Standard 424031 for sidewalk details not shown.

The sidewalk should drain to the low side of the island. If necessary the sidewalk shall be sloped to drain at 1%.

See the plan general notes for the type of curb & gutter to be used on islands.

The sidewalk should not be closer than 36 from the corner of the island.

Keyed longitudinal construction joints shall be constructed without tie bars.

Medians and large islands shall consist of PCC Sidewalk 5, Concrete Median Surface 4, and Combination Concrete Curb & Gutter, Type M or B of the size specified. Median island can also be solid concrete medians.

Locations, layouts, and widths of the flush sidewalk area, shall be determined by the designer and shown on the plans.

Small islands will be measured for payment from E.O.P. to E.O.P. using either option 1 or option 2, as specified in the plans, and will be paid for at the contract unit price per SQ FT for CONCRETE MEDIAN (SPECIAL) which shall include the combination curb & gutter, sidewalk, aggregate fill, concrete median surface, and solid concrete median.

Omit detectable warnings when distance between back of curbs is less than 6'.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 4pt1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-16-19
	DRAWN -	REVISED - 1-05-16
	CHECKED -	REVISED - 6-27-14
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13

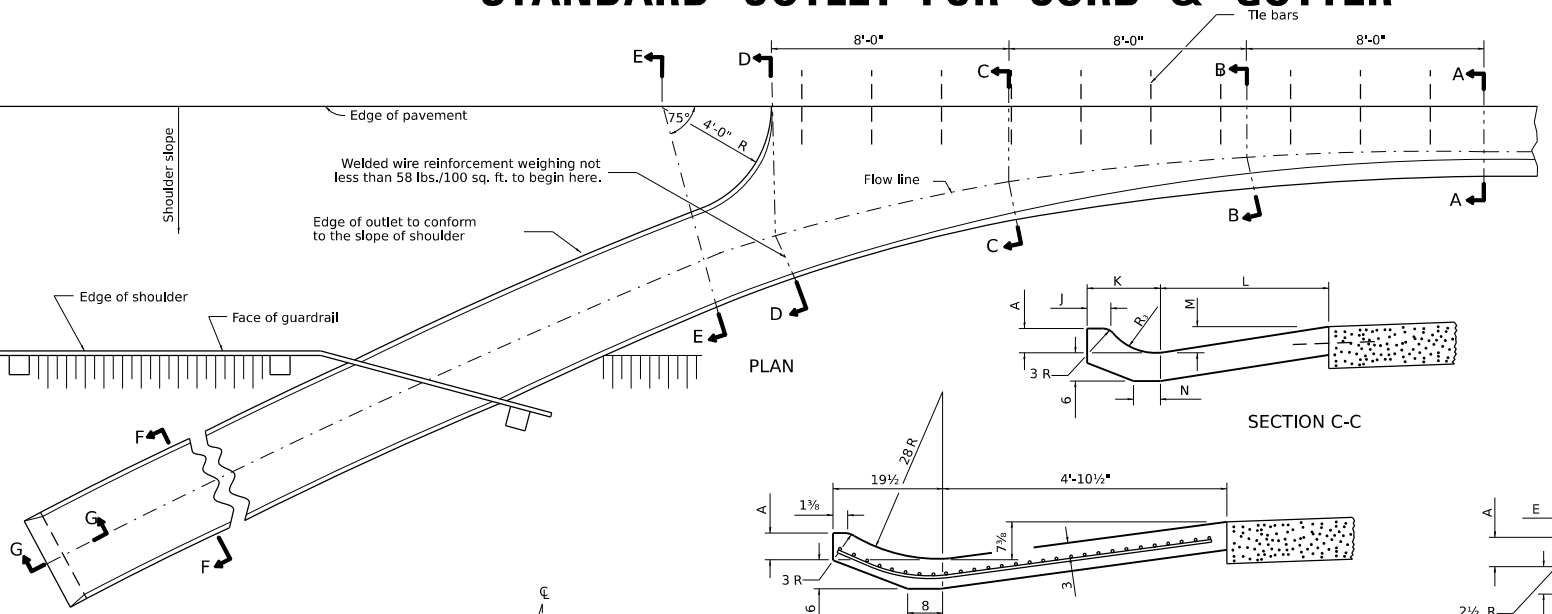
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

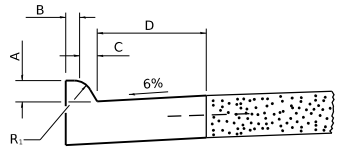
REGION 2 / DISTRICT 2 STANDARD

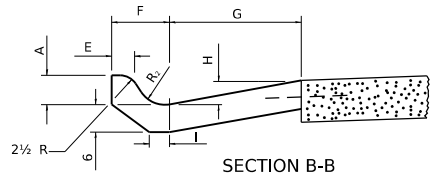
SCALE: | SHEET OF SHEETS | STA. | TO STA.

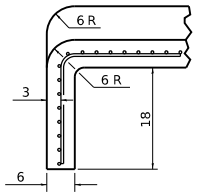
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

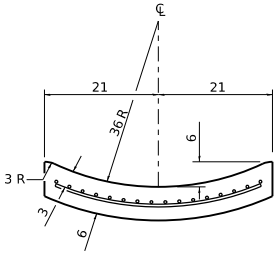
STANDARD OUTLET FOR CURB & GUTTER

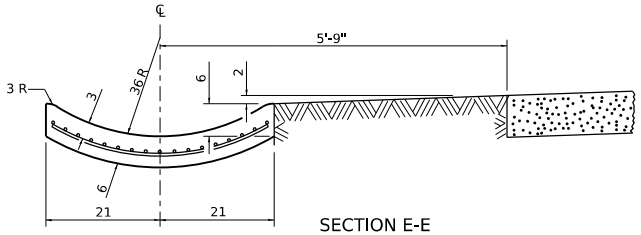












TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS																	CONCRETE QUANTITY A-A TO E-E AND CURTAIN WALL FOR 9 PAV'T (CU YDS)	CONCRETE QUANTITY A-A TO E-E AND CURTAIN WALL FOR 10 PAV'T (CU YDS)
	A	SECTION A-A			SECTION B-B					SECTION C-C					R_1	R_2	R_3		
		B	C	D	E	F	G	H	I	J	K	L	M	N					
B-6.12	6	6	1	12	3	7⅞	13¾	2¾	4	3	12⅞	26½	5	6	1	2	8	1.87	1.89
B-6.18	6	6	1	18	3¾	9¼	22	3	5	3½	14¼	28¾	5⅛	5½	1	4	10	2.18	2.20
M-4.06	4	3	4	6	3	9½	10½	2	4	3	13	25	3	6	3	5	11	1.78	1.79
M-4.12	4	3	4	12	3⅛	9¾	13¾	2¾	6	3	13½	26½	5	6	3	5	9	1.89	1.91
M-4.18	4	3	4	18	3½	9¼	22	3	5	3½	14¼	28¾	5⅛	5½	3	4	10	2.11	2.13
M-4.24	4	3	4	24	5	11½	26	3⅜	4	3¾	15	38	5⅜	5	3	6	12	2.34	2.37
M-6.06	6	2	6	6	2¼	9¾	10½	2	4	2½	13	25	3	6	2	5	10	1.84	1.86
M-6.12	6	2	6	12	3½	8⅛	13¾	2¾	6	3	13½	26½	5	6	2	2	9	1.96	1.98
M-6.18	6	2	6	18	3½	9⅞	22	3	5	3½	14¼	28¾	5⅛	5½	2	4	10	2.18	2.20
M-6.24	6	2	6	24	5⅛	11	26	3⅜	4	3¾	17¾	38	5⅜	5	2	3¼	16	2.46	2.49

QUANTITY

For Section F-F = 0.069 cu. yds. concrete per ft.

NOTES

Class SI Concrete shall be used throughout.

Tie bars shall be No. 6 at 24 centers unless otherwise shown.

Gutter outlet shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.

If the average grade of pavement for the distance from Section A-A to D-D exceeds 2%, this distance shall be increased 6' for each 1% increase in grade.

When curb and gutter is constructed adjacent to flexible pavement, a 1 expansion joint shall be installed at construction joints.

All dimensions are in inches unless otherwise shown.

MODEL: Sht1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16
	DRAWN -	REVISED - 11-12-14
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

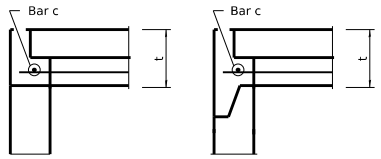
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

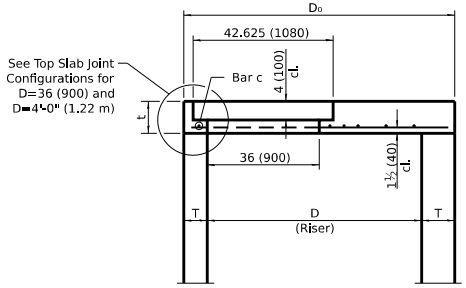
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

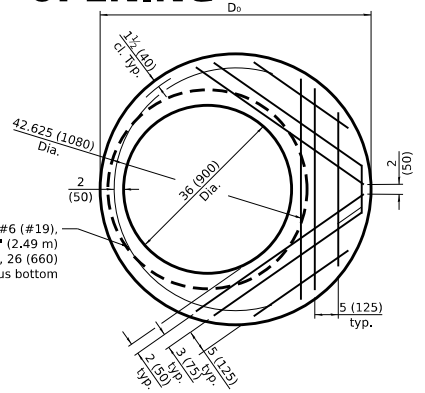
PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



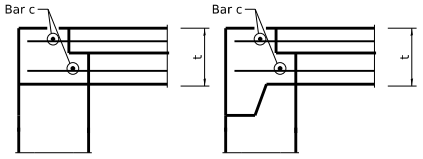
FLAT SLAB TOP JOINT CONFIGURATIONS
FOR D = 4'-0" (1.22 m) THRU D = 6'-0" (1.83 m)
(Shown at access hole)



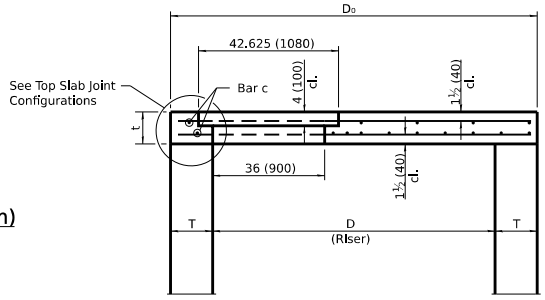
SECTION THRU FLAT SLAB TOP
FOR D = 4'-0" (1.22 m) THRU D = 6'-0" (1.83 m)



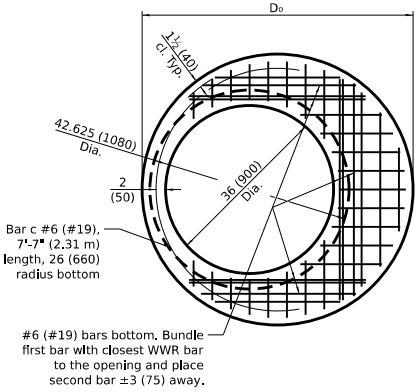
PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)
(Showing layout of bottom reinforcement bars and c bars)



FLAT SLAB TOP JOINT CONFIGURATIONS
FOR D = 7'-0" (2.13 m) THRU D = 10'-0" (3.05 m)
(Shown at access hole)



SECTION THRU FLAT SLAB TOP
FOR D = 7'-0" (2.13 m) THRU D = 10'-0" (3.05 m)



PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)
(Showing layout of welded wire reinforcement and c bars)

TABLE

D	T	D_0 (min.)	t
4'-0" (1.2 m)	See applicable Standards	D + 2T	9 (225)
5'-0" (1.5 m)			9.5 (238)
6'-0" (1.8 m)			10 (250)
7'-0" (2.1 m)			10.5 (265)
8'-0" (2.4 m)			10.5 (265)
9'-0" (2.7 m)			12 (305)
10'-0" (3.1 m)			13 (330)

FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0 (1.22 m)

Location	WWR (each direction)		Rebar		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

GENERAL NOTES

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602016, or 602306 at the option of the Contractor or when field conditions prohibit the use of tapered tops.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: 6pt1_sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25
	DRAWN -	REVISED - 3-23-23
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

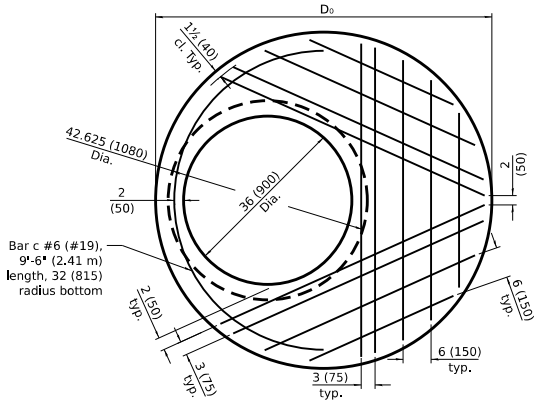
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

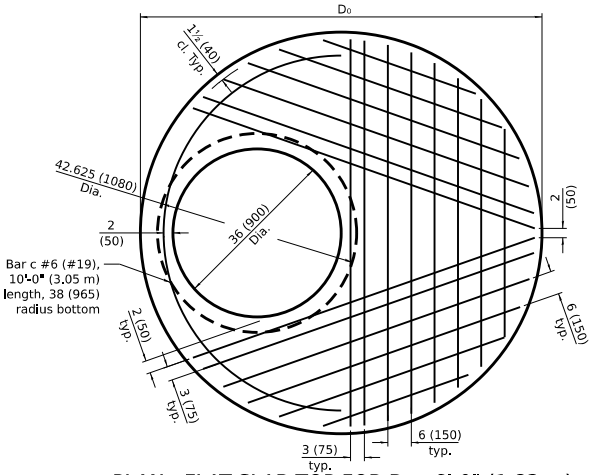
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)

(Showing layout of bottom reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 6'-0" (1.83 m)

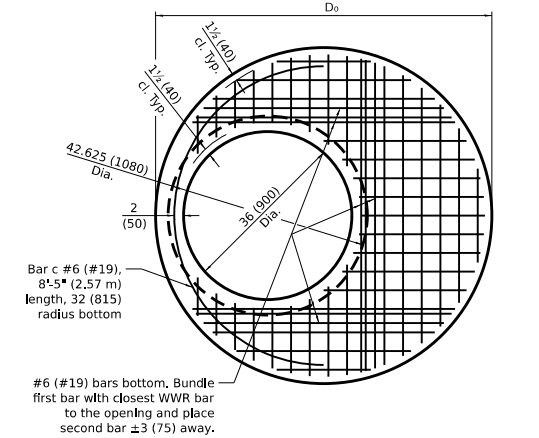
(Showing layout of bottom reinforcement bars and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)

Location	WWR (each direction)		Rebar		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

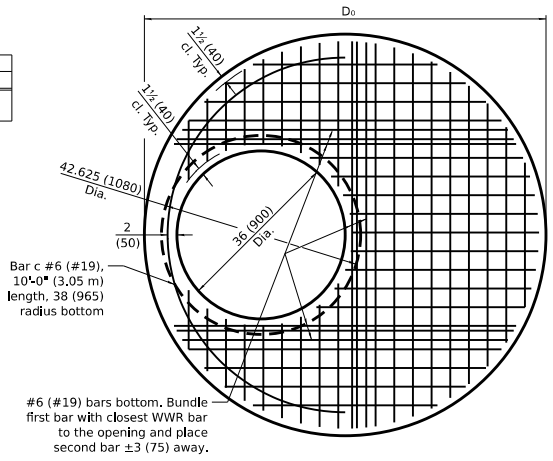
FLAT SLAB TOP REINFORCEMENT FOR D = 6'-0" (1.83 m)

Location	WWR (each direction)		Rebar		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)



PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)

(Showing layout of welded wire bottom reinforcement and c bars)



PLAN - FLAT SLAB TOP FOR D = 6'-0" (1.83 m)

(Showing layout of welded wire bottom reinforcement and c bars)

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: 6pt1_sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	
	DRAWN -	REVISED - 3-23-23	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

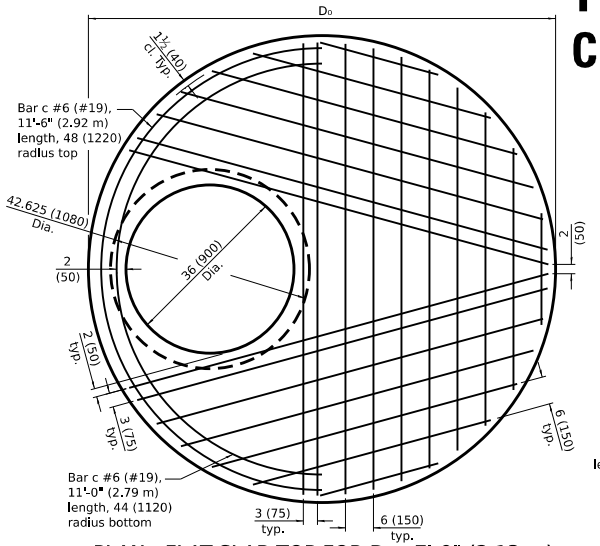
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

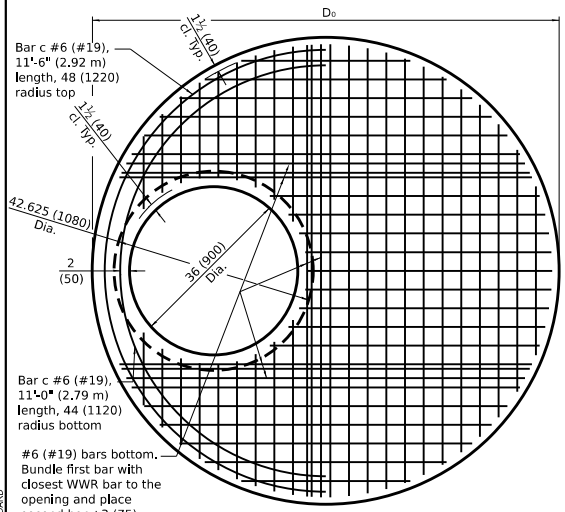
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



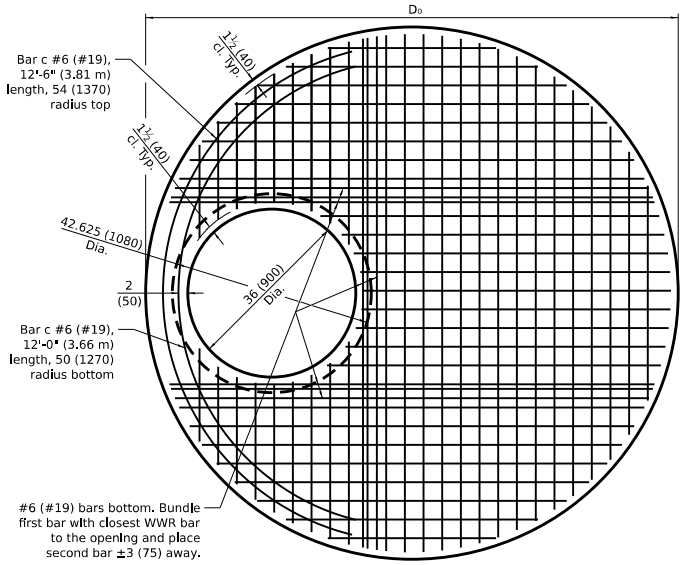
PLAN - FLAT SLAB TOP FOR D = 7'-0" (2.13 m)

(Showing layout of reinforcement bars and c bars)



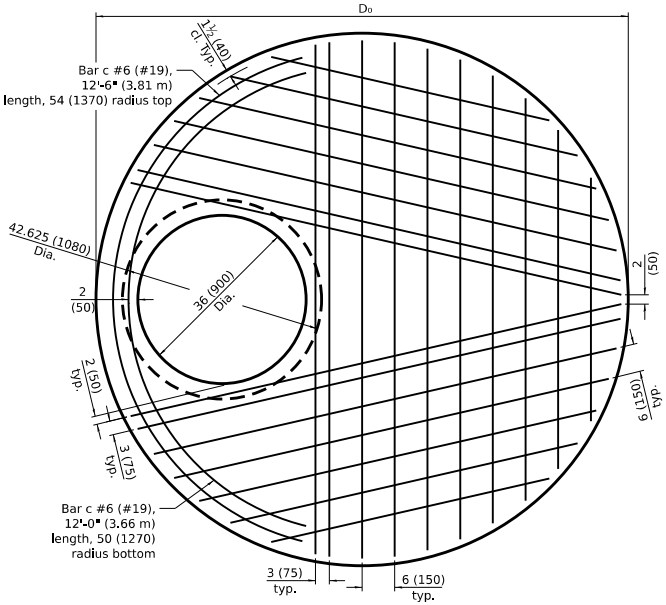
PLAN - FLAT SLAB TOP FOR D = 7'-0" (2.13 m)

(Showing layout of reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 8'-0" (2.44 m)

(Showing layout of welded wire reinforcement and c bars)



PLAN - FLAT SLAB TOP FOR D = 8'-0" (2.44 m)

(Showing layout of reinforcement bars and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 7'-0" (2.13 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

FLAT SLAB TOP REINFORCEMENT FOR D = 8'-0" (2.44 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: 6pt1_sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	
	DRAWN -	REVISED - 3-23-23	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

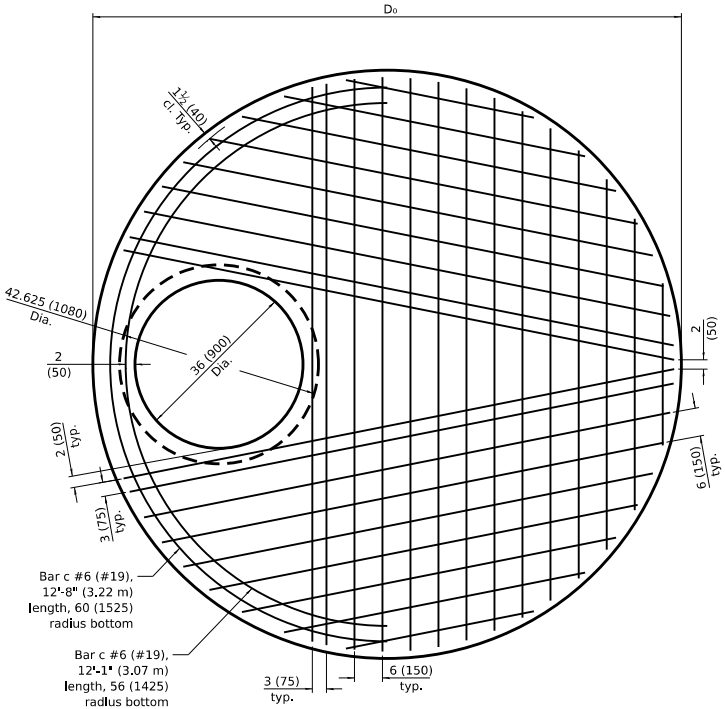
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

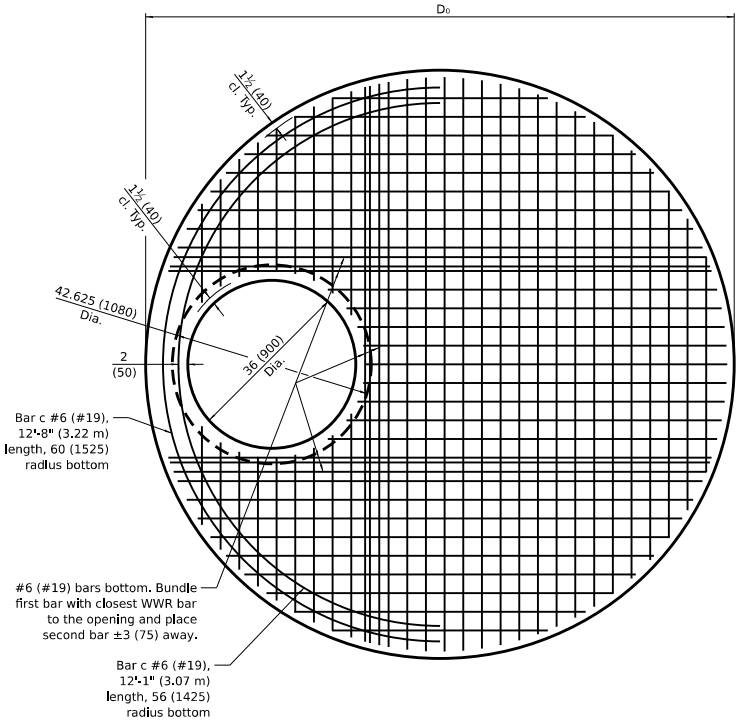
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



PLAN - FLAT SLAB TOP FOR D = 9'-0" (2.74 m)

(Showing layout of reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 9'-0" (2.74 m)

(Showing layout of welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 9'-0" (2.74 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: 6pt1_sheet4
FILE NAME: DISTRICT 2 STANDARD

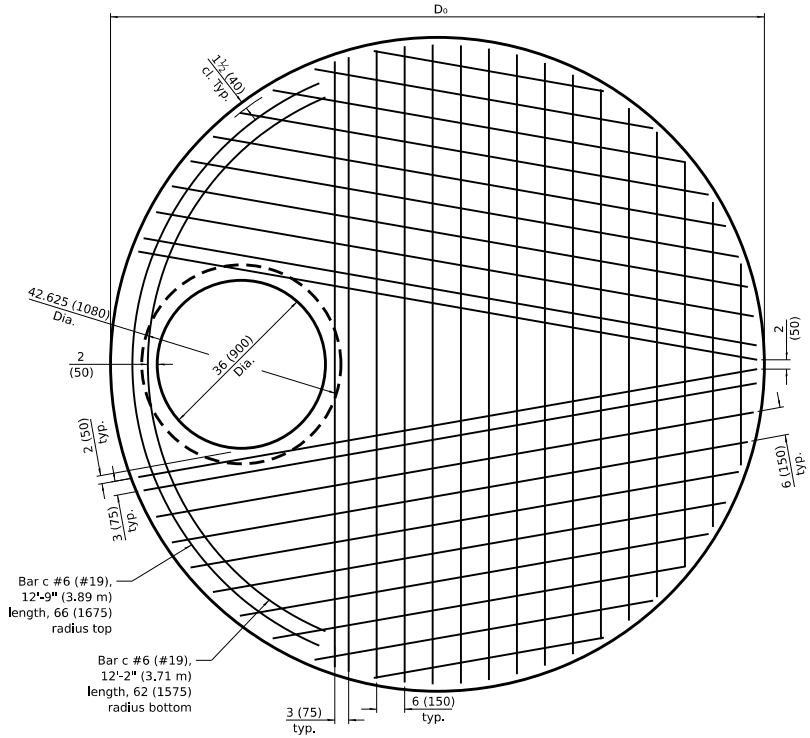
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 3-23-23	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

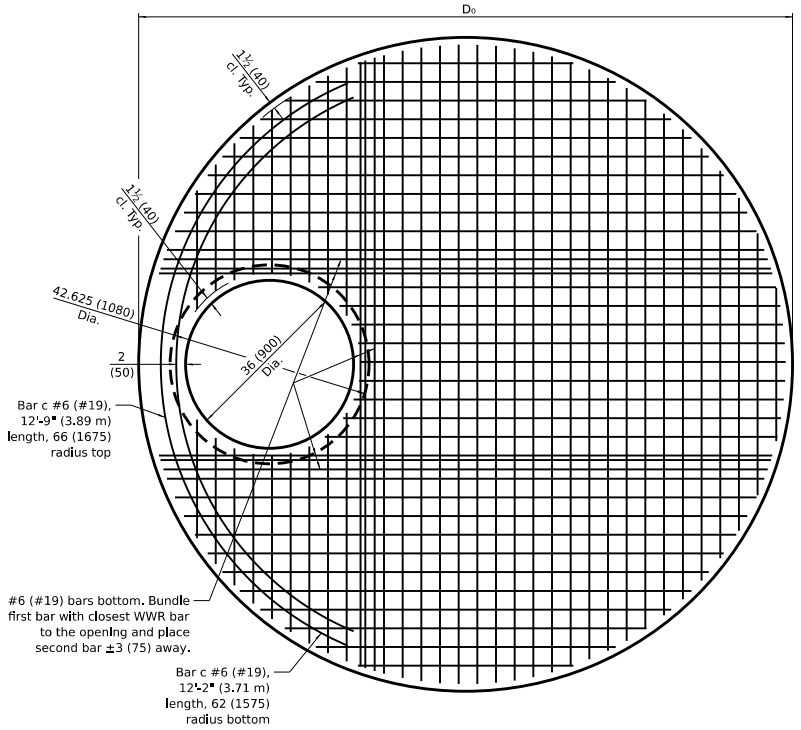
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



PLAN - FLAT SLAB TOP FOR D = 10'-0" (3.05 m)

(Showing layout of reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 10'-0" (3.05 m)

(Showing layout of welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 10'-0" (3.05 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: 6pt1_sheet5
FILE NAME: DISTRICT 2 STANDARD

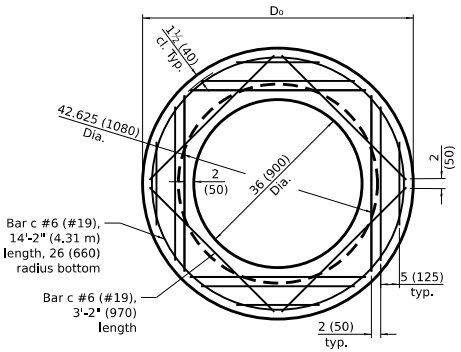
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED - 3-23-23	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

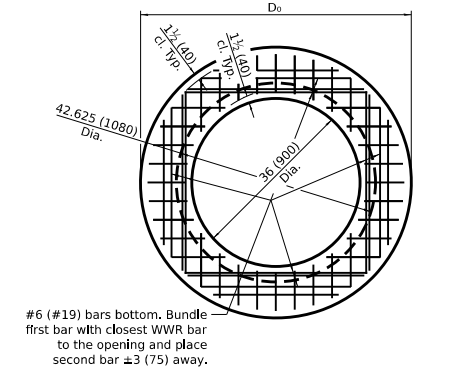
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)

(Showing layout of bottom reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 4'-0" (1.22 m)

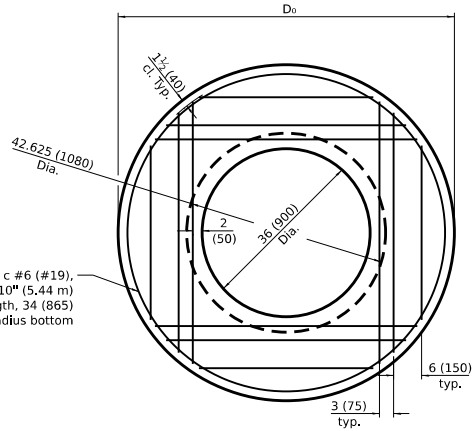
(Showing layout of bottom welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0 (1.22 m)

Location	WWR (each direction)		Rebar		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

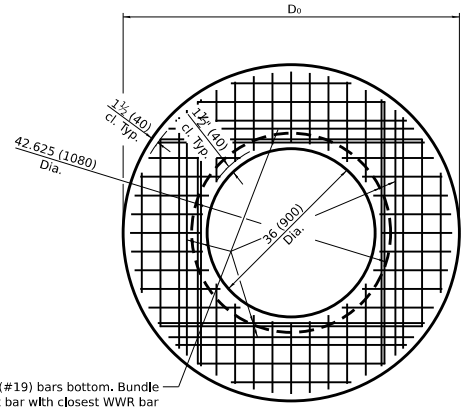
FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)

Location	WWR (each direction)		Rebar		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)



PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)

(Showing layout of bottom reinforcement bars and c bars)

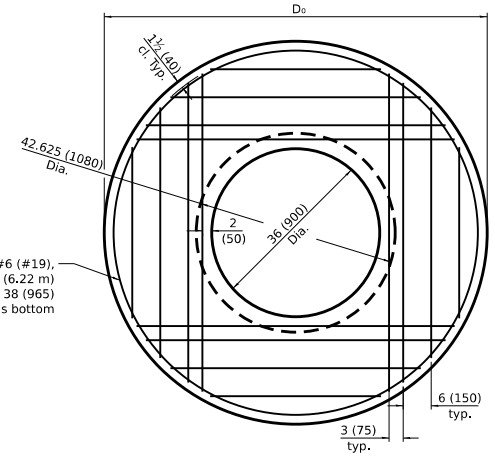


PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)

(Showing layout of bottom welded wire reinforcement and c bars)

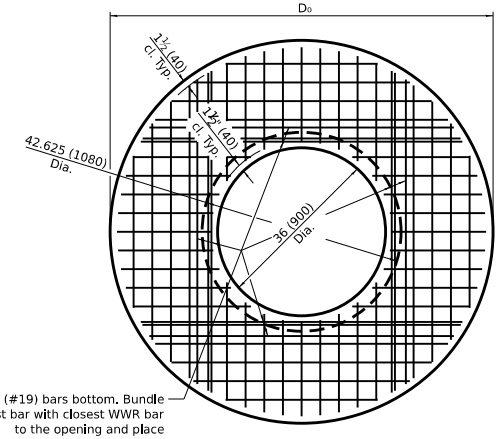
FLAT SLAB TOP REINFORCEMENT FOR D = 6'-0" (1.83 m)

Location	WWR (each direction)		Rebar		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)



PLAN - FLAT SLAB TOP FOR D = 6'-0" (1.83 m)

(Showing layout of bottom reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 6'-0" (1.83 m)

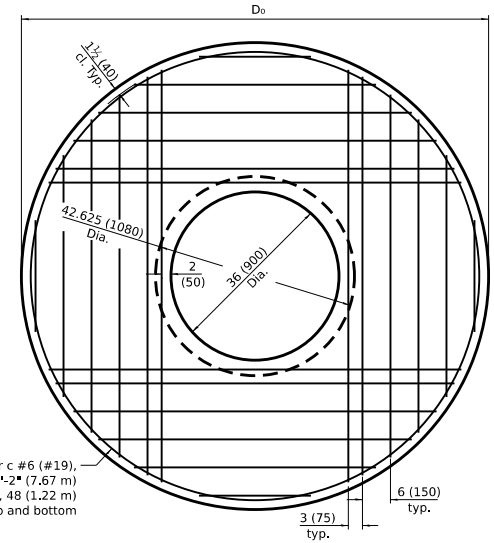
(Showing layout of bottom welded wire reinforcement and c bars)

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 3-23-23			CONTRACT NO.
PLOT DATE = 4/17/2025	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT
	DATE -	REVISED -			

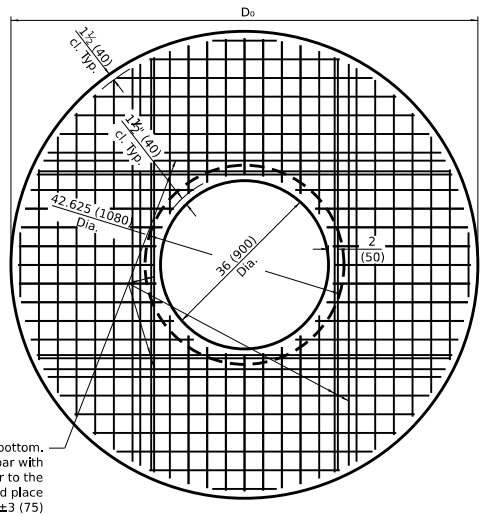
MODEL: 6pt1_sheet6
FILE NAME: DISTRICT 2 STANDARD

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



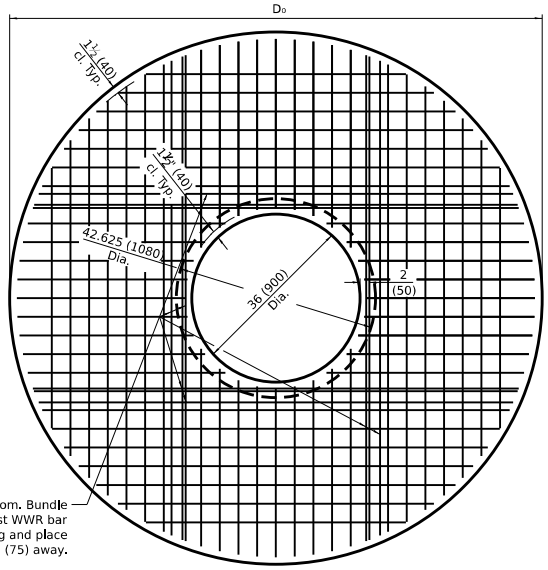
PLAN - FLAT SLAB TOP FOR D = 7'-0" (2.13 m)

(Showing layout of reinforcement bars and c bars)



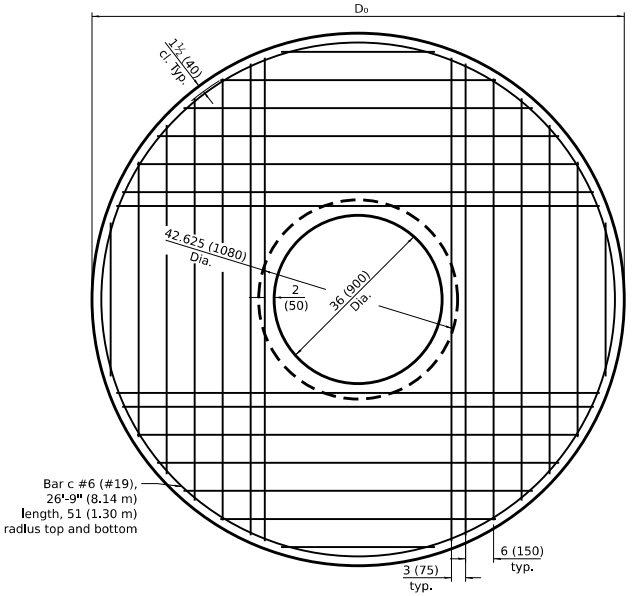
PLAN - FLAT SLAB TOP FOR D = 7'-0" (2.13 m)

(Showing layout of welded wire reinforcement and c bars)



PLAN - FLAT SLAB TOP FOR D = 8'-0" (2.44 m)

(Showing layout of welded wire reinforcement and c bars)



PLAN - FLAT SLAB TOP FOR D = 8'-0" (2.44 m)

(Showing layout of reinforcement bars and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 7'-0" (2.13 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

FLAT SLAB TOP REINFORCEMENT FOR D = 8'-0" (2.44 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: dgn1 sheet7
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25
	DRAWN -	REVISED - 3-23-23
PLOT DATE = 4/17/2025	CHECKED -	REVISED -
	DATE -	REVISED -

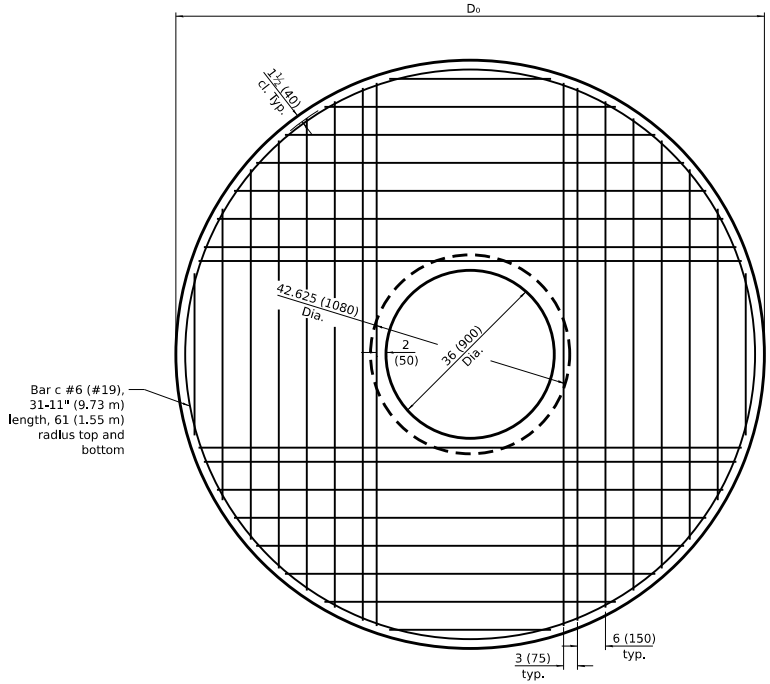
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

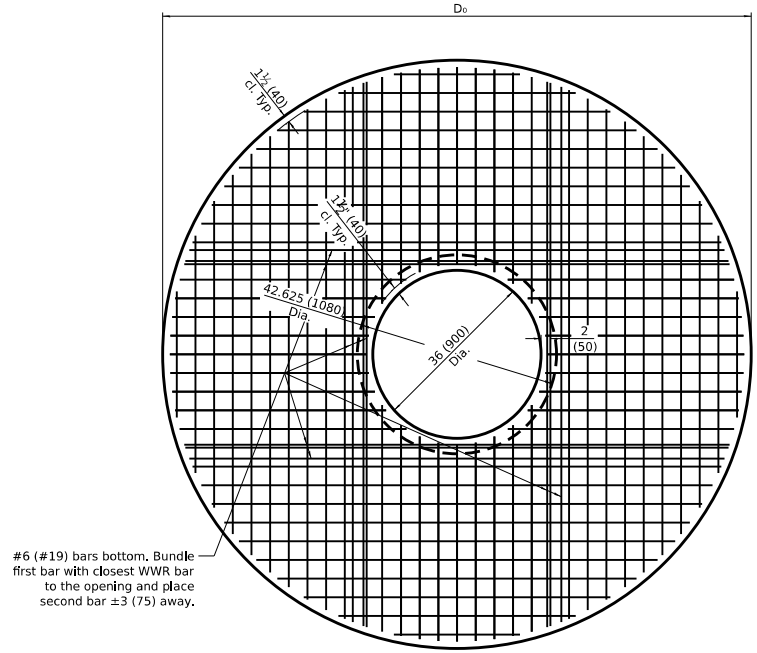
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



PLAN - FLAT SLAB TOP FOR D = 9'-0" (2.74 m)
(Showing layout of reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 9'-0" (2.74 m)
(Showing layout of welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 9'-0" (2.74 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: 6pt1_sheet8
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	
	DRAWN -	REVISED - 3-23-23	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

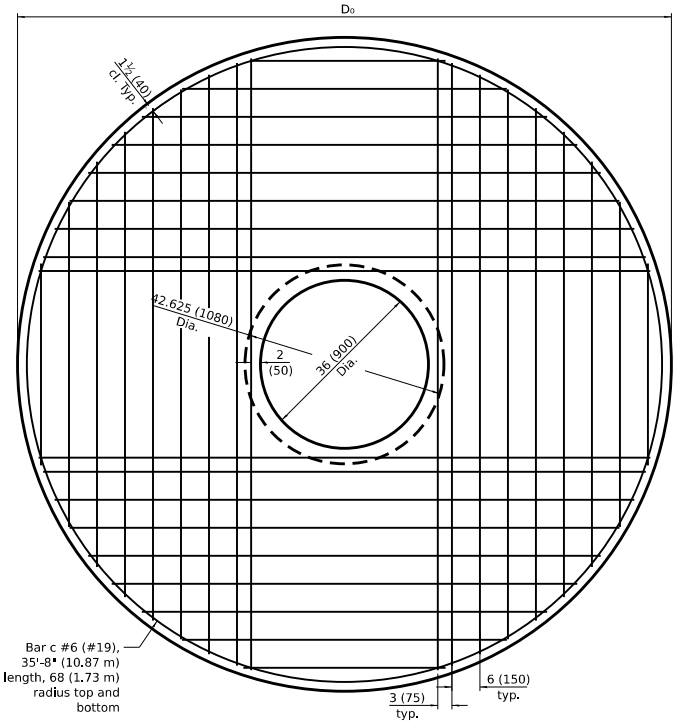
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

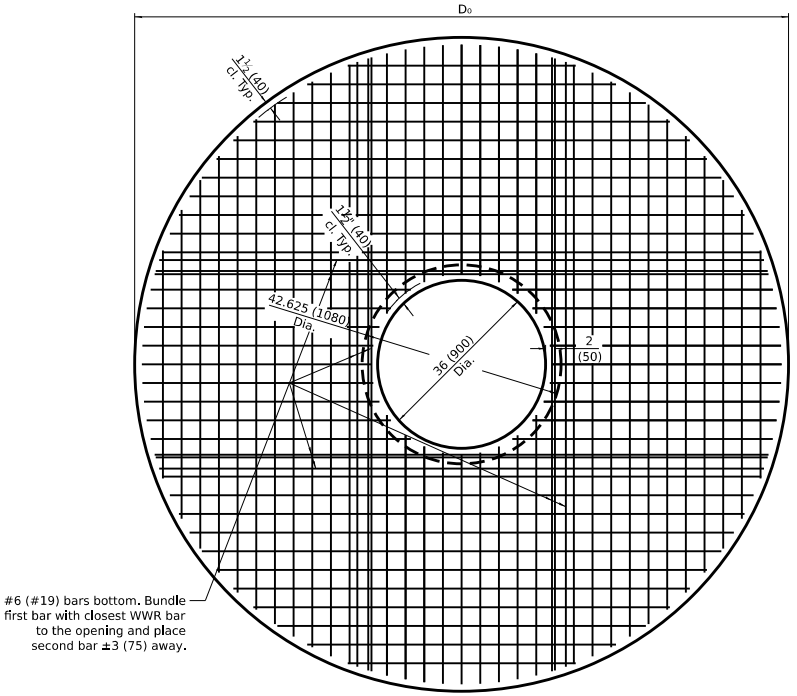
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



PLAN - FLAT SLAB TOP FOR D = 10'-0" (3.05 m)

(Showing layout of reinforcement bars and c bars)



PLAN - FLAT SLAB TOP FOR D = 10'-0" (3.05 m)

(Showing layout of welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT FOR D = 10'-0" (3.05 m)

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S (min.)	Spacing (max.)	A_S (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#4 (#13)
Bottom Mat	* 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#6 (#19)

* Only one layer of WWR permitted to avoid congestion.

MODEL: 6pt1 sheet9
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-3-25	
	DRAWN -	REVISED - 3-23-23	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

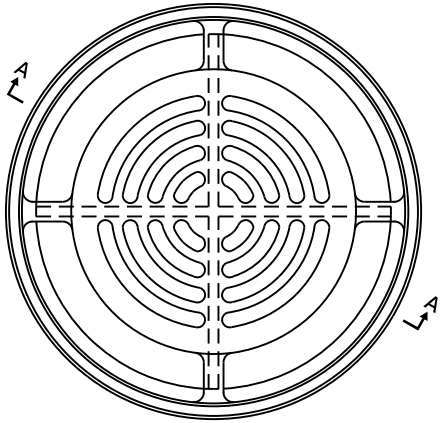
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

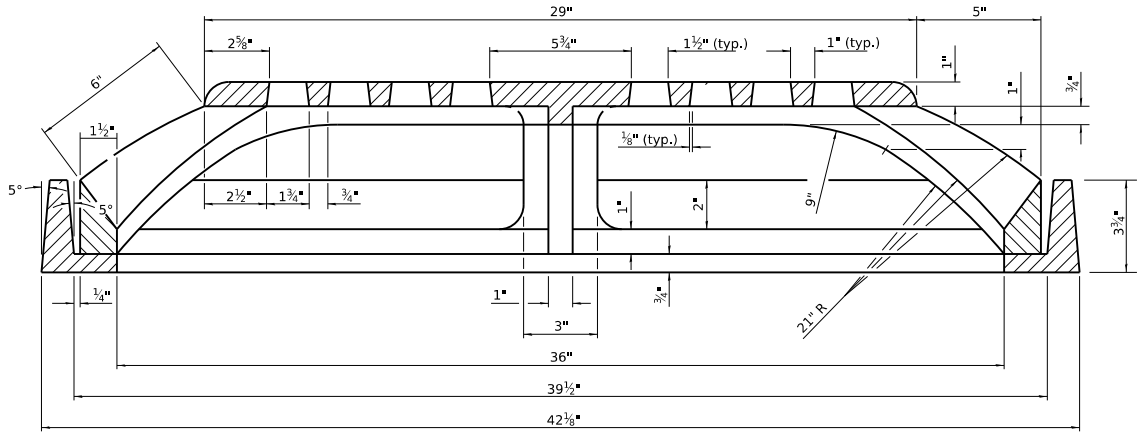
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

PRECAST REINFORCED CONCRETE FLAT SLAB TOP CENTERED AND OFFSET MANHOLE – 36" OPENING



NEENAH: R-4349-D
5.4 sq. ft. Opening

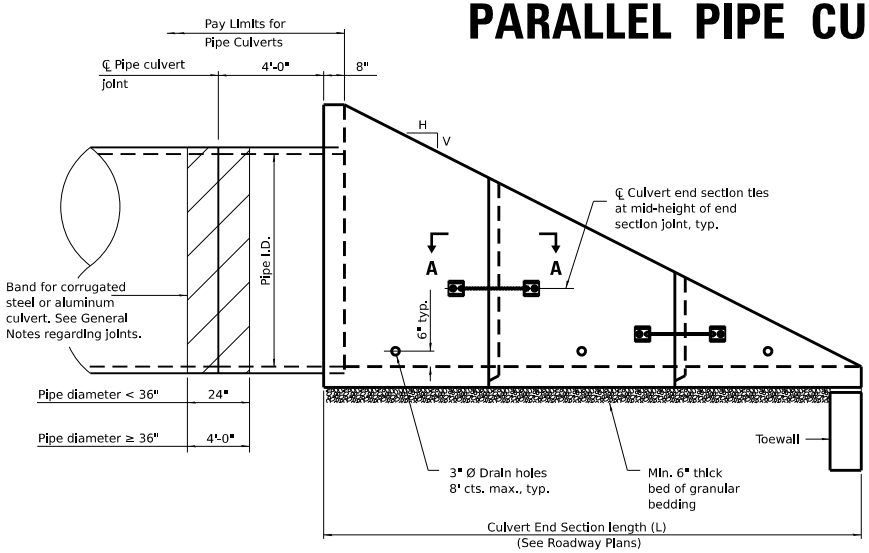


SECTION A-A

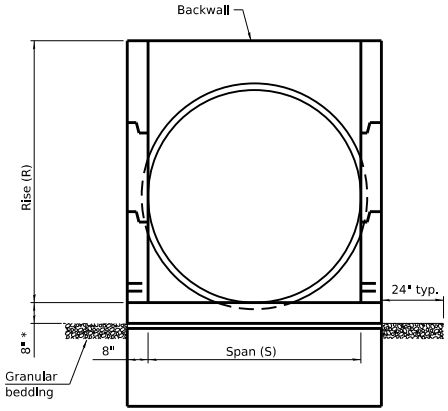
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-27-23	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - 3-23-23									
	CHECKED -	REVISED -							CONTRACT NO.		
PLOT DATE = 4/17/2025	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: 6pt1_sheet10
FILE NAME: DISTRICT 2 STANDARD

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.



ELEVATION



END VIEW
(Showing pipes)

* This dimension shall be increased by 1" for CIP field construction. See General Notes.

GENERAL NOTES

The concrete end sections detailed herein for flexible type pipe culverts are restricted to use with parallel type drainage structures only and traversable pipe grating placed perpendicular to the sidewalls. When traversable pipe grating placed parallel to the sidewalls is required, use standard 542001 or 542011.

A segment of pipe culvert shall be cast into the backwall of the concrete end section such that a minimum of 4 ft of pipe culvert extends from the back face of the end section as shown in Elevation.

Segments of pipe culvert shall be joined in accordance with Article 542 of the Standard Specifications except bands for corrugated steel or aluminum culverts shall conform to the length requirements shown in elevation and have the same corrugations as the culvert pipe. These bands will be included in cost of the pipe.

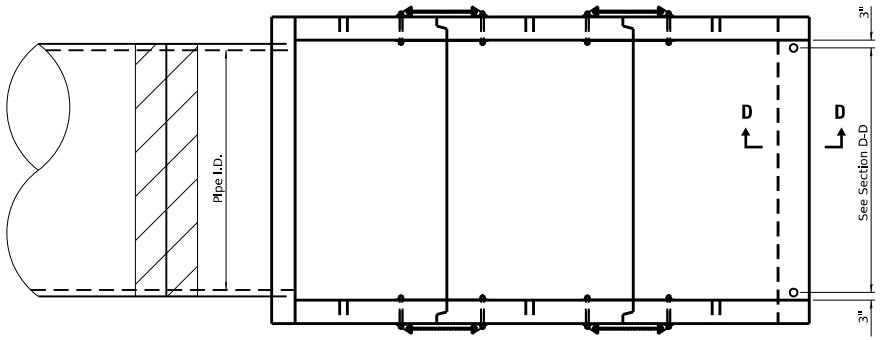
The number of segments shown in elevation is for example only. The length and number of precast sections required to construct the end section shall be determined by the Contractor.

See roadway plans for slope (V:H) and pipe inside diameter.

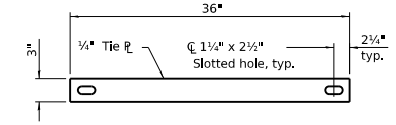
2¼" x 2¼" x Ð" plate washers shall be provided under each nut required for the anchor rods. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of formed holes.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

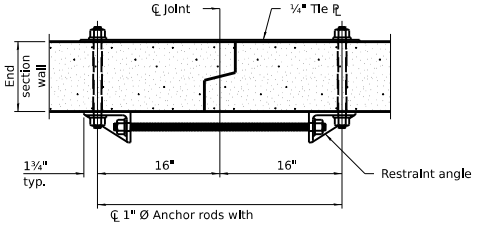
All dimensions are in inches unless otherwise shown.



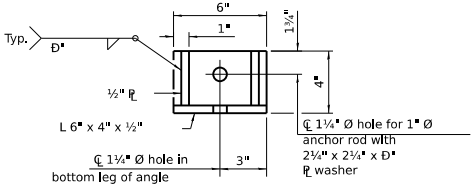
PLAN



TIE PLATE DETAIL



SECTION A–A
(Showing end section tie details)

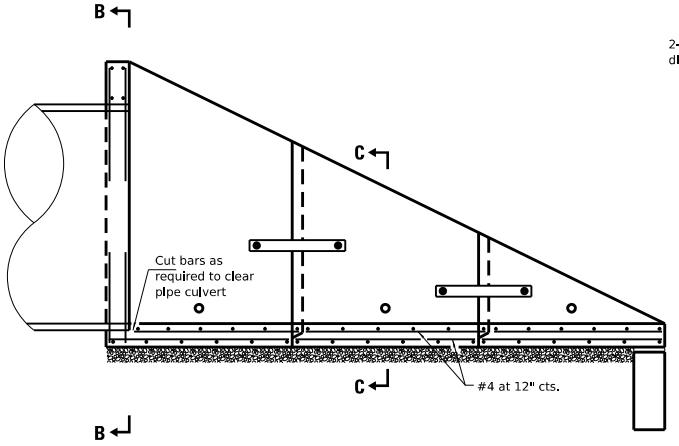


RESTRAINT ANGLE DETAIL

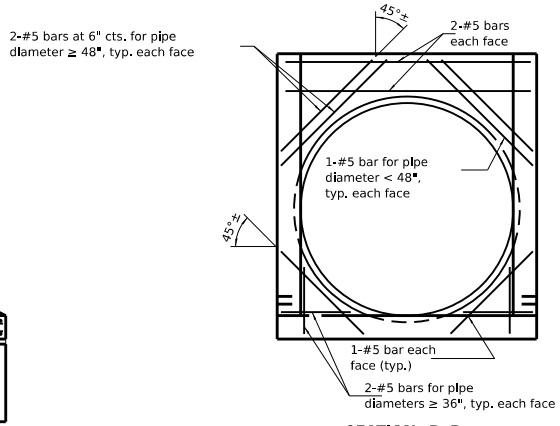
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 5-09-14						
	CHECKED -	REVISED -					CONTRACT NO.	
PLOT DATE = 4/17/2025	DATE -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS / FED. AID PROJECT	

MODEL: 11p1_sheet1
FILE NAME: DISTRICT 2 STANDARD

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.



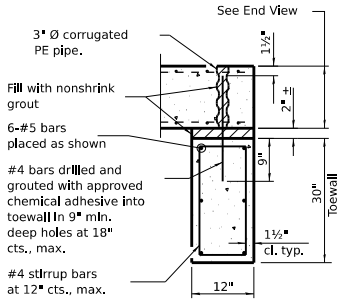
LONGITUDINAL SECTION
(Showing bottom slab and backwall reinforcement.)



SECTION B–B
(Showing backwall reinforcement for pipes.)

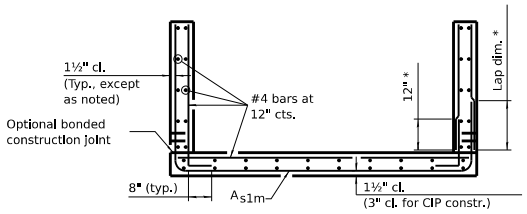
LAP DIMENSION

#4 bar = 17"
#5 bar = 21"
#6 bar = 25"



SECTION D–D

* The Contractor may use lap splices for the sidewall reinforcement at the locations shown.



SECTION C–C

PARALLEL PIPE CULVERT END SECTION DIMENSIONS

Pipe I.D.	Tables IB, IC, IIIA, AND IIIB				
	R	S	L Slope of End Section 1:4	1:6	1:10
15"	25"	16"	9'-0"	13'-2"	21'-6"
18"	28"	18"	10'-0"	14'-8"	24'-0"
21"	31"	22"	11'-0"	16'-2"	26'-6"
24"	35"	24"	12'-4"	18'-2"	29'-10"
30"	3'-5"	30"	14'-4"	21'-2"	34'-10"
36"	3'-11"	36"	16'-4"	24'-2"	39'-10"
42"	4'-5"	3'-6"	18'-4"	27'-2"	44'-10"
48"	5'-0"	4'-0"	20'-8"	30'-8"	50'-8"
54"	5'-4"	4'-6"	22'-0"	32'-8"	54'-0"
60"	5'-10"	5'-0"	24'-0"	35'-8"	59'-0"
66"	6'-4"	5'-6"	26'-0"	38'-8"	64'-0"
72"	6'-10"	6'-0"	28'-0"	41'-8"	69'-0"
78"	7'-4"	6'-6"	30'-0"	44'-8"	74'-0"
84"	7'-10"	7'-0"	32'-0"	47'-8"	79'-0"

The above "Tables" are referenced from Article 542.03 of the Standard Specifications.

REINFORCEMENT SCHEDULE

PIPES		
Pipe I.D.	As1m Bar Size	Bar Spacing
15"	#4	12"
18"	#4	12"
21"	#4	12"
24"	#4	12"
30"	#4	12"
36"	#4	12"
42"	#4	12"
48"	#4	8"
54"	#4	8"
60"	#5	8"
66"	#5	8"
72"	#5	8"
78"	#5	8"
84"	#6	8"

MODEL: 11st1_sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	1-05-16
	DRAWN -	REVISED -	5-09-14
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.

QUANTITIES

Pipe I.D.	Tables IB, IC, IIIA, AND IIIB								
	Concrete yd ^{3}			Reinforcement without Lap lbs.			Reinforcement with Lap lbs.		
	Slope of End Section			Slope of End Section			Slope of End Section		
	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10
15"	1.4	1.9	2.8	250	330	510	270	350	540
18"	1.6	2.2	3.4	290	400	600	310	420	640
21"	2.0	2.7	4.2	330	450	690	360	480	740
24"	2.3	3.2	5.0	370	510	790	400	550	850
30"	3.1	4.3	6.7	490	680	1060	520	720	1130
36"	3.9	5.5	8.7	580	810	1270	620	870	1360
42"	4.9	6.9	10.9	720	1020	1610	770	1080	1710
48"	6.0	8.6	13.7	940	1320	2090	1010	1420	2240
54"	6.9	9.8	15.7	1090	1540	2440	1160	1650	2610
60"	8.1	11.6	18.6	1410	2000	3190	1530	2180	3480
66"	9.5	13.6	21.8	1650	2360	3780	1780	2560	4100
72"	10.9	15.7	25.2	1840	2630	4220	1990	2850	4580
78"	12.4	17.9	28.9	2110	3040	4900	2280	3280	5290
84"	14.1	20.3	32.8	2710	3910	6320	2970	4290	6950

The above quantities are estimates and provided for information only. Actual quantities may vary depending upon the final layout of reinforcement and number of segments determined by the Contractor.

For cast-in-place construction, increase concrete volumes by approximately 12%.

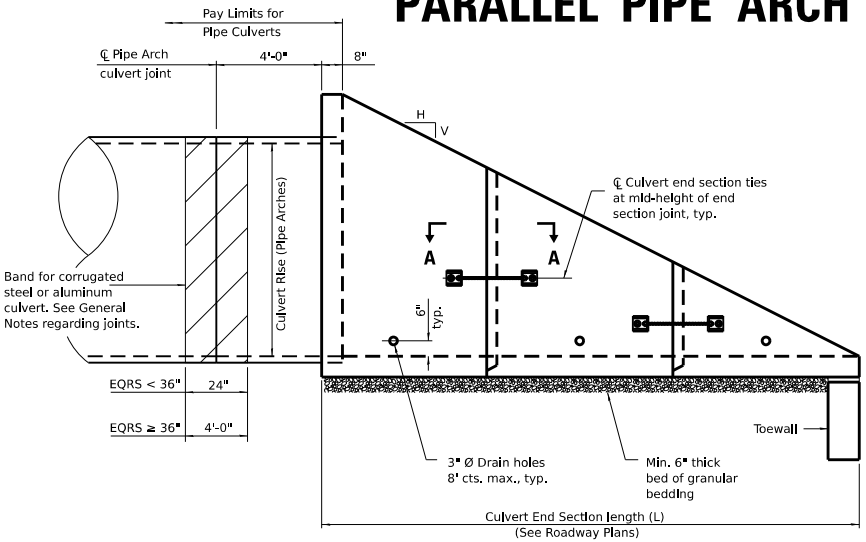
MODEL: 11ct1_sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 5-09-14	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

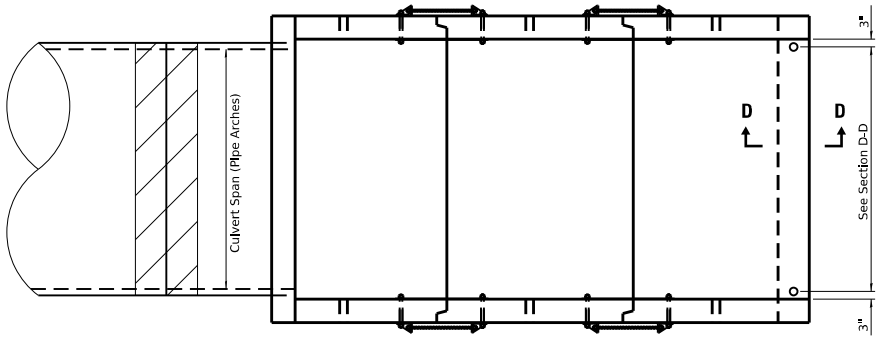
REGION 2 / DISTRICT 2 STANDARD					
SCALE:	SHEET OF SHEETS	STA.	TO STA.		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

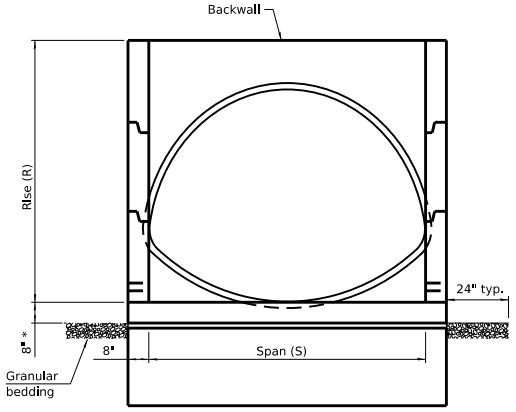
CONCRETE END SECTIONS FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.



ELEVATION



PLAN



END VIEW
(Showing pipe arches)

* This dimension shall be increased by 1½" for CIP field construction. See General Notes.

GENERAL NOTES

The concrete end sections detailed herein for flexible type pipe culverts are restricted to use with parallel type drainage structures only and traversable pipe grating placed perpendicular to the sidewalls. When traversable pipe grating placed parallel to the sidewalls is required, use standard 542001 or 542011.

A segment of pipe culvert shall be cast into the backwall of the concrete end section such that a minimum of 4 ft of pipe culvert extends from the back face of the end section as shown in Elevation.

Segments of pipe culvert shall be joined in accordance with Article 542 of the Standard Specifications except bands for corrugated steel or aluminum culverts shall conform to the length requirements shown in elevation and have the same corrugations as the culvert pipe. These bands will be included in cost of the pipe.

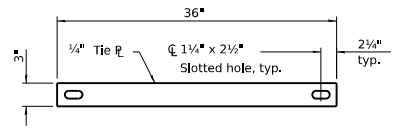
The number of segments shown in elevation is for example only. The length and number of precast sections required to construct the end section shall be determined by the Contractor.

See roadway plans for slope (V:H) and pipe inside diameter.

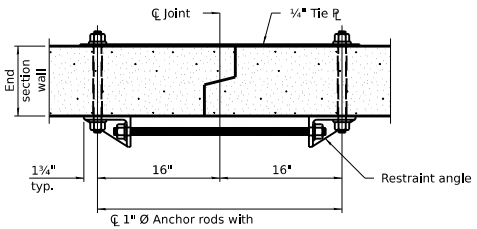
2¼" x 2¼" x Ð" plate washers shall be provided under each nut required for the anchor rods. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of formed holes.

All slope ratios are expressed as units of vertical dispacement to units of horizontal displacement (V:H).

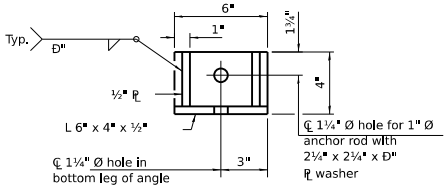
All dimensions are in inches unless otherwise shown.



TIE PLATE DETAIL



SECTION A–A
(Showing end section tie details)

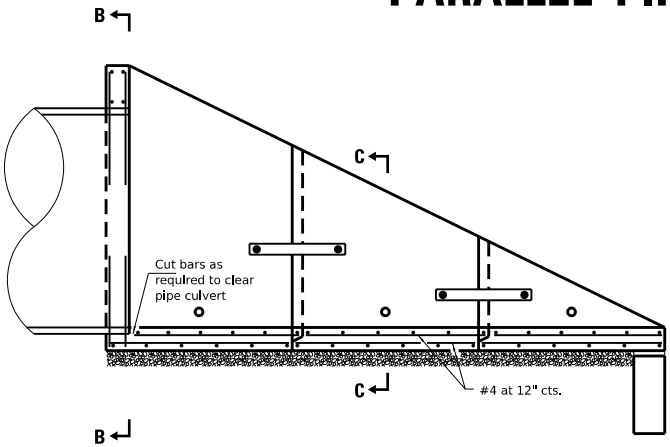


RESTRAINT ANGLE DETAIL

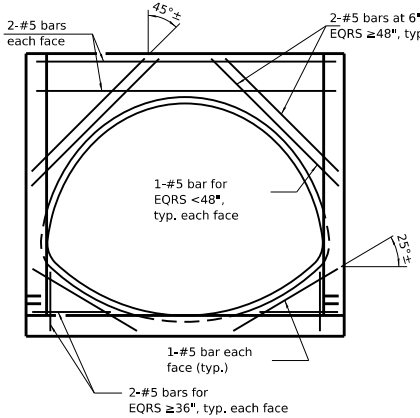
MODEL: 12p1 sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -						
	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO.	
PLOT DATE = 4/17/2025	DATE -	REVISED -					ILLINOIS	FED. AID PROJECT

CONCRETE END SECTIONS FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.



LONGITUDINAL SECTION
(Showing bottom slab and backwall reinforcement.)

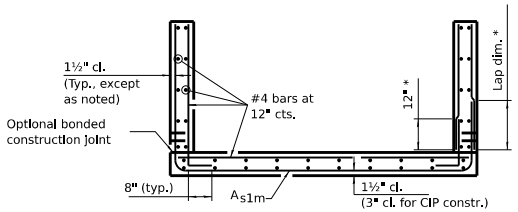


SECTION B–B
(Showing backwall reinforcement for arches.)

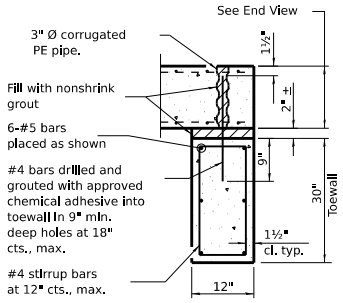
LAP DIMENSION

#4 bar	= 17"
#5 bar	= 21"
#6 bar	= 25"

* The Contractor may use lap splices for the sidewall reinforcement at the locations shown.



SECTION C–C



SECTION D–D

PARALLEL PIPE ARCH CULVERT END SECTION DIMENSIONS

Equivalent Round Size	Culvert		Table IIA, Corrugation : 2⅔" x ½"					Culvert		Table IIA, Corrugation : 3" x 1"				
	Span	Rise	R	S	L Slope of End Section 1:4	1:6	1:10	Span	Rise	R	S	L Slope of End Section 1:4	1:6	1:10
15"	17"	13"	23"	18"	8'-4"	12'-2"	19'-10"	-	-	-	-	-	-	-
18"	21"	15"	25"	22"	9'-0"	13'-2"	21'-6"	-	-	-	-	-	-	-
21"	24"	18"	28"	24"	10'-0"	14'-8"	24'-0"	-	-	-	-	-	-	-
24"	28"	20"	30"	28"	10'-8"	15'-8"	25'-8"	-	-	-	-	-	-	-
30"	35"	24"	34"	36"	12'-0"	17'-8"	29'-0"	-	-	-	-	-	-	-
36"	42"	29"	39"	3'-6"	13'-8"	20'-2"	33'-2"	40"	31"	3'-6"	40"	14'-8"	21'-8"	35'-8"
42"	49"	33"	3'-7"	4'-2"	15'-0"	22'-2"	36'-6"	46"	36"	3'-11"	3'-10"	16'-4"	24'-2"	39'-10"
48"	57"	38"	4'-0"	4'-10"	16'-8"	24'-8"	40'-8"	53"	41"	4'-5"	4'-6"	18'-4"	27'-2"	44'-10"
54"	64"	43"	4'-5"	5'-4"	18'-4"	27'-2"	44'-10"	60"	46"	4'-10"	5'-0"	20'-0"	29'-8"	49'-0"
60"	71"	47"	4'-9"	6'-0"	19'-8"	29'-2"	48'-2"	66"	51"	5'-3"	5'-6"	21'-8"	32'-2"	53'-2"
66"	77"	52"	5'-2"	6'-6"	21'-4"	31'-8"	52'-4"	73"	55"	5'-8"	6'-2"	23'-4"	34'-8"	57'-4"
72"	83"	57"	5'-7"	7'-0"	23'-0"	34'-2"	56'-6"	81"	59"	6'-0"	6'-10"	24'-8"	36'-8"	60'-8"
78"	-	-	-	-	-	-	-	87"	63"	6'-5"	7'-4"	26'-4"	39'-2"	64'-10"
84"	-	-	-	-	-	-	-	95"	67"	6'-9"	8'-0"	27'-8"	41'-2"	68'-2"

The above "Tables" are referenced from Article 542.03 of the Standard Specifications.

REINFORCEMENT SCHEDULE

PIPE ARCHES		
Equivalent Round Size	As1m Bar Size	As1m Bar Spacing
15"	#4	12"
18"	#4	12"
21"	#4	12"
24"	#4	12"
30"	#4	12"
36"	#4	12"
42"	#4	12"
48"	#4	12"
54"	#4	8"
60"	#4	8"
66"	#4	8"
72"	#5	8"
78"	#5	8"
84"	#5	8"

MODEL: 12q1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			
	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

CONCRETE END SECTIONS FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.

QUANTITIES

Equivalent Round Size	Table IIA, Corrugation: 2⅔" x ½"									Table IIA, Corrugation: 3" x 1"								
	Concrete yd³			Reinforcement without Lap lbs.			Reinforcement with Lap lbs.			Concrete yd³			Reinforcement without Lap lbs.			Reinforcement with Lap lbs.		
	Slope of End Section			Slope of End Section			Slope of End Section			Slope of End Section			Slope of End Section			Slope of End Section		
	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10
15"	1.3	1.8	2.7	240	320	480	250	330	500	-	-	-	-	-	-	-	-	-
18"	1.5	2.1	3.2	270	360	540	290	370	570	-	-	-	-	-	-	-	-	-
21"	1.8	2.5	3.8	310	420	630	330	450	670	-	-	-	-	-	-	-	-	-
24"	2.1	2.8	4.4	360	480	730	380	510	780	-	-	-	-	-	-	-	-	-
30"	2.7	3.7	5.7	420	570	860	440	610	920	-	-	-	-	-	-	-	-	-
36"	3.4	4.6	7.2	520	700	1070	550	740	1140	3.6	5.0	7.8	560	770	1200	600	820	1270
42"	4.1	5.7	8.9	630	860	1340	660	910	1420	4.4	6.1	9.6	640	890	1380	680	940	1470
48"	5.0	7.0	11.0	740	1010	1560	780	1070	1650	5.5	7.7	12.2	800	1120	1750	840	1180	1860
54"	5.9	8.4	13.2	940	1320	2060	1000	1400	2190	6.4	9.1	14.4	980	1380	2170	1050	1470	2310
60"	6.9	9.7	15.4	1050	1470	2300	1110	1560	2440	7.4	10.6	16.8	1120	1580	2500	1190	1680	2670
66"	8.0	11.3	17.9	1190	1680	2630	1260	1780	2800	8.7	12.4	19.7	1320	1870	2960	1390	1980	3140
72"	9.1	12.9	20.6	1540	2190	3490	1660	2350	3770	9.9	14.1	22.4	1660	2360	3760	1790	2550	4060
78"	-	-	-	-	-	-	-	-	-	11.1	15.9	25.5	1880	2700	4320	2010	2900	4640
84"	-	-	-	-	-	-	-	-	-	12.4	17.8	28.5	2050	2940	4690	2200	3150	5040

The above quantities are estimates and provided for information only. Actual quantities may vary depending upon the final layout of reinforcement and number of segments determined by the Contractor.

For cast-in-place construction, increase concrete volumes by approximately 12%.

MODEL: 12pt1_sheet3
FILE NAME: DISTRICT 2 STANDARD

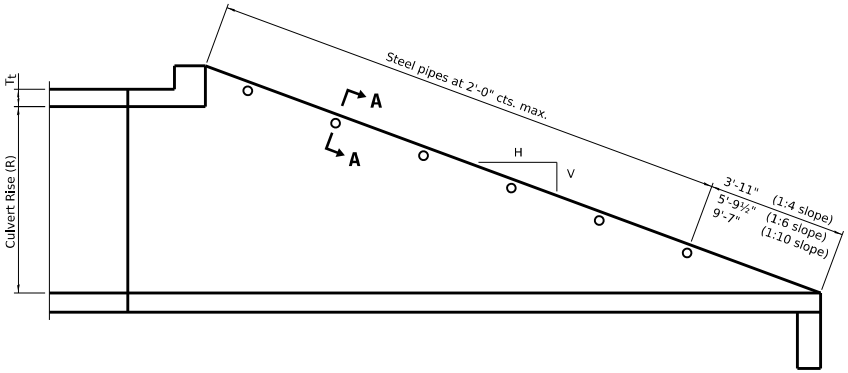
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

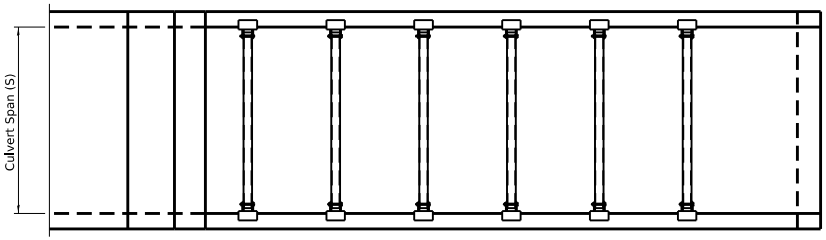
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE



LONGITUDINAL SECTION



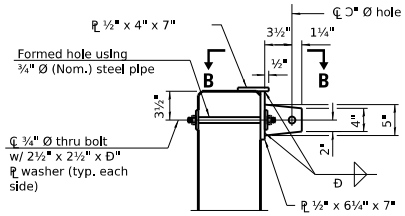
PLAN VIEW

GENERAL NOTES

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.

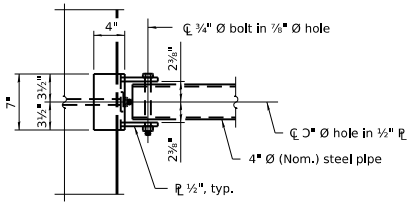
This standard shall only be used on concrete end sections for parallel drainage structures.

The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional 1/3 turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.



SECTION A–A

(4" Ø pipe not shown for clarity.)



VIEW B–B

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			CONTRACT NO.
PLOT DATE = 4/17/2025	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT
	DATE -	REVISED -			

MODEL: 14d1 sheet1
FILE NAME: DISTRICT 2 STANDARD

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL BOX CULVERTS

(<2 FT COVER)

BOX SIZE		SLOPE OF END SECTION					
		1:4		1:6		1:10	
SPAN (FT.)	RISE (FT.)	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
3	2	5 @ 2'-7"	12'-11"	8 @ 2'-7"	20'-8"	12 @ 2'-7"	31'-0"
3	3	7 @ 2'-7"	18'-1"	11 @ 2'-7"	28'-5"	17 @ 2'-7"	43'-11"
4	2	5 @ 3'-7"	17'-11"	8 @ 3'-7"	28'-8"	13 @ 3'-7"	46'-7"
4	3	8 @ 3'-7"	28'-8"	11 @ 3'-7"	39'-5"	18 @ 3'-7"	64'-6"
4	4	10 @ 3'-7"	35'-10"	14 @ 3'-7"	50'-2"	23 @ 3'-7"	82'-5"
5	2	6 @ 4'-7"	27'-6"	8 @ 4'-7"	36'-8"	13 @ 4'-7"	59'-7"
5	3	8 @ 4'-7"	36'-8"	11 @ 4'-7"	50'-5"	18 @ 4'-7"	82'-6"
5	4	10 @ 4'-7"	45'-10"	14 @ 4'-7"	64'-2"	23 @ 4'-7"	105'-5"
5	5	12 @ 4'-7"	55'-0"	17 @ 4'-7"	77'-11"	28 @ 4'-7"	128'-4"
6	2	6 @ 5'-7"	33'-6"	8 @ 5'-7"	44'-8"	13 @ 5'-7"	72'-7"
6	3	8 @ 5'-7"	44'-8"	11 @ 5'-7"	61'-5"	18 @ 5'-7"	100'-6"
6	4	10 @ 5'-7"	55'-10"	14 @ 5'-7"	78'-2"	23 @ 5'-7"	128'-5"
6	5	12 @ 5'-7"	67'-0"	17 @ 5'-7"	94'-11"	28 @ 5'-7"	156'-4"
6	6	14 @ 5'-7"	78'-2"	20 @ 5'-7"	111'-8"	33 @ 5'-7"	184'-3"
7	2	6 @ 6'-7"	39'-6"	8 @ 6'-7"	52'-8"	13 @ 6'-7"	85'-7"
7	3	8 @ 6'-7"	52'-8"	11 @ 6'-7"	72'-5"	18 @ 6'-7"	118'-6"
7	4	10 @ 6'-7"	65'-10"	14 @ 6'-7"	92'-2"	23 @ 6'-7"	151'-5"
7	5	12 @ 6'-7"	79'-0"	17 @ 6'-7"	111'-11"	28 @ 6'-7"	184'-4"
7	6	14 @ 6'-7"	92'-2"	20 @ 6'-7"	131'-8"	33 @ 6'-7"	217'-3"
7	7	16 @ 6'-7"	105'-4"	23 @ 6'-7"	151'-5'	38 @ 6'-7"	250'-2"
8	2	6 @ 7'-7"	45'-6"	8 @ 7'-7"	60'-8"	13 @ 7'-7"	98'-7"
8	3	8 @ 7'-7"	60'-8"	11 @ 7'-7"	83'-5"	18 @ 7'-7"	136'-6"
8	4	10 @ 7'-7"	75'-10"	14 @ 7'-7"	106'-2"	23 @ 7'-7"	174'-5"
8	5	12 @ 7'-7"	91'-0"	17 @ 7'-7"	128'-11"	28 @ 7'-7"	212'-4"
8	6	14 @ 7'-7"	106'-2"	20 @ 7'-7"	151'-8"	33 @ 7'-7"	250'-3"
8	7	16 @ 7'-7"	121'-4"	23 @ 7'-7"	174'-5"	38 @ 7'-7"	288'-2"
8	8	18 @ 7'-7"	136'-6"	26 @ 7'-7"	197'-2"	43 @ 7'-7"	326'-1"
9	2	6 @ 8'-7"	51'-6"	8 @ 8'-7"	68'-8"	13 @ 8'-7"	111'-7"
9	3	8 @ 8'-7"	68'-8"	11 @ 8'-7"	94'-5"	18 @ 8'-7"	154'-6'
9	4	10 @ 8'-7"	85'-10"	14 @ 8'-7"	120'-2"	23 @ 8'-7"	197'-5"
9	5	12 @ 8'-7"	103'-0"	17 @ 8'-7"	145'-11"	28 @ 8'-7"	240'-4"
9	6	14 @ 8'-7"	120'-2"	20 @ 8'-7"	171'-8"	33 @ 8'-7"	283'-3"
9	7	16 @ 8'-7"	137'-4"	23 @ 8'-7"	197'-5"	38 @ 8'-7"	326'-2"
9	8	18 @ 8'-7"	154'-6"	26 @ 8'-7"	223'-2"	43 @ 8'-7"	369'-1"
9	9	20 @ 8'-7"	171'-8"	30 @ 8'-7"	257'-6"	48 @ 8'-7"	412'-0"
10	2	6 @ 9'-7"	57'-6"	9 @ 9'-7"	86'-3"	14 @ 9'-7"	134'-2"
10	3	8 @ 9'-7"	76'-8"	12 @ 9'-7"	115'-0"	19 @ 9'-7"	182'-1"
10	4	10 @ 9'-7"	95'-10"	15 @ 9'-7"	143'-9"	24 @ 9'-7"	230'-0"
10	5	12 @ 9'-7"	115'-0"	18 @ 9'-7"	172'-6"	29 @ 9'-7"	277'-11"
10	6	14 @ 9'-7"	134'-2"	21 @ 9'-7"	201'-3"	34 @ 9'-7"	325'-10"
10	7	16 @ 9'-7"	153'-4"	24 @ 9'-7"	230'-0"	39 @ 9'-7"	373'-9"
10	8	18 @ 9'-7"	172'-6"	27 @ 9'-7"	258'-9"	44 @ 9'-7"	421'-8"
10	9	20 @ 9'-7"	191'-8"	30 @ 9'-7"	287'-5"	49 @ 9'-7"	469'-7"
10	10	22 @ 9'-7"	210'-10"	33 @ 9'-7"	316'-3"	54 @ 9'-7"	517'-6"

PIPE GRATE SCHEDULE FOR PARALLEL BOX CULVERTS

(<2 FT COVER)

BOX SIZE		SLOPE OF END SECTION					
		1:4		1:6		1:10	
SPAN (FT.)	RISE (FT.)	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
11	2	6 @ 10'-7"	63'-6"	9 @ 10'-7"	95'-3"	14 @ 10'-7"	148'-2"
11	3	8 @ 10'-7"	84'-8"	12 @ 10'-7"	127'-0"	19 @ 10'-7"	201'-1"
11	4	10 @ 10'-7"	105'-10"	15 @ 10'-7"	158'-9"	24 @ 10'-7"	254'-0"
11	6	14 @ 10'-7"	148'-2"	21 @ 10'-7"	222'-3"	34 @ 10'-7"	359'-10"
11	8	18 @ 10'-7"	190'-6"	27 @ 10'-7"	285'-9"	44 @ 10'-7"	465'-8"
11	10	23 @ 10'-7"	243'-5"	33 @ 10'-7"	349'-3"	54 @ 10'-7"	571'-6"
11	11	25 @ 10'-7"	264'-7"	36 @ 10'-7"	381'-0"	59 @ 10'-7"	624'-5"
12	2	6 @ 11'-7"	69'-6"	9 @ 11'-7"	104'-3"	15 @ 11'-7"	173'-9"
12	3	8 @ 11'-7"	92'-8"	12 @ 11'-7"	139'-0"	20 @ 11'-7"	231'-8"
12	4	10 @ 11'-7"	115'-10"	15 @ 11'-7"	173'-9"	25 @ 11'-7"	289'-7"
12	6	15 @ 11'-7"	173'-9"	21 @ 11'-7"	243'-3"	35 @ 11'-7"	405'-5"
12	8	19 @ 11'-7"	220'-1"	27 @ 11'-7"	312'-9"	45 @ 11'-7"	521'-3"
12	10	23 @ 11'-7"	266'-5"	33 @ 11'-7"	382'-3"	55 @ 11'-7"	637'-1"
12	12	27 @ 11'-7"	312'-9"	39 @ 11'-7"	451'-9"	65 @ 11'-7"	752'-11"

PIPE GRATE SCHEDULE FOR PARALLEL BOX CULVERTS

(>2 FT COVER)

BOX SIZE		SLOPE OF END SECTION					
		1:4		1:6		1:10	
SPAN (FT.)	RISE (FT.)	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
3	2	5 @ 2'-7"	12'-11"	7 @ 2'-7"	18'-1"	11 @ 2'-7"	28'-5"
3	3	7 @ 2'-7"	18'-1"	10 @ 2'-7"	25'-10"	16 @ 2'-7"	41'-4"
4	2	5 @ 3'-7"	17'-11"	7 @ 3'-7"	25'-1"	12 @ 3'-7"	43'-0"
4	3	7 @ 3'-7"	25'-1"	10 @ 3'-7"	35'-10"	17 @ 3'-7"	60'-11"
4	4	9 @ 3'-7"	32'-3"	13 @ 3'-7"	46'-7"	22 @ 3'-7"	78'-10"
5	2	5 @ 4'-7"	22'-11"	7 @ 4'-7"	32'-1"	12 @ 4'-7"	55'-0"
5	3	7 @ 4'-7"	32'-1"	11 @ 4'-7"	50'-5"	17 @ 4'-7"	77'-11"
5	4	9 @ 4'-7"	41'-3"	14 @ 4'-7"	64'-2"	22 @ 4'-7"	100'-10"
5	5	11 @ 4'-7"	50'-5"	17 @ 4'-7"	77'-11"	27 @ 4'-7"	123'-9"
6	2	5 @ 5'-7"	27'-11"	8 @ 5'-7"	44'-8"	12 @ 5'-7"	67'-0"
6	3	7 @ 5'-7"	39'-1"	11 @ 5'-7"	61'-5"	17 @ 5'-7"	94'-11"
6	4	10 @ 5'-7"	55'-10"	14 @ 5'-7"	78'-2"	23 @ 5'-7"	128'-5"
6	5	12 @ 5'-7"	67'-0"	17 @ 5'-7"	94'-11"	28 @ 5'-7"	156'-4"
6	6	14 @ 5'-7"	78'-2"	20 @ 5'-7"	111'-8"	33 @ 5'-7"	184'-3"

Follow (<2 FT Cover) table for all other sizes

MODEL: 14d1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.

Pipe I.D.	SLOPE OF END SECTION					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	3 @ 0'-11"	2'-9"	4 @ 0'-11"	3'-8"	6 @ 0'-11"	5'-6"
18"	3 @ 1'-1"	3'-3"	5 @ 1'-1"	5'-5"	7 @ 1'-1"	7'-7"
21"	4 @ 1'-5"	5'-8"	5 @ 1'-5"	7'-1"	9 @ 1'-5"	12'-9"
24"	5 @ 1'-7"	7'-11"	6 @ 1'-7"	9'-6"	10 @ 1'-7"	15'-10"
30"	6 @ 2'-1"	12'-6"	8 @ 2'-1"	16'-8"	13 @ 2'-1"	27'-1"
36"	7 @ 2'-7"	18'-1"	10 @ 2'-7"	25'-10"	15 @ 2'-7"	38'-9"
42"	8 @ 3'-1"	24'-8"	11 @ 3'-1"	33'-11"	18 @ 3'-1"	55'-6"
48"	9 @ 3'-7"	32'-3"	13 @ 3'-7"	46'-7"	21 @ 3'-7"	75'-3"
54"	10 @ 4'-1"	40'-10"	14 @ 4'-1"	57'-2"	23 @ 4'-1"	93'-11"
60"	11 @ 4'-7"	50'-5"	15 @ 4'-7"	68'-9"	25 @ 4'-7"	114'-7"
66"	12 @ 5'-1"	61'-0"	17 @ 5'-1"	86'-5"	28 @ 5'-1"	142'-4"
72"	13 @ 5'-7"	72'-7"	18 @ 5'-7"	100'-6"	30 @ 5'-7"	167'-6"
78"	14 @ 6'-1"	85'-2"	20 @ 6'-1"	121'-8"	33 @ 6'-1"	200'-9"
84"	15 @ 6'-7"	98'-9"	21 @ 6'-7"	138'-3"	35 @ 6'-7"	230'-5"

MODEL: 14d1 sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.

SLOPE OF END SECTION						
Pipe I.D.	Table IIA, Corrugation : 2¼ " x ½"					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	2 @ 1'-1"	2'-2"	3 @ 1'-1"	3'-3"	5 @ 1'-1"	5'-5"
18"	3 @ 1'-5"	4'-3"	4 @ 1'-5"	5'-8"	6 @ 1-5"	8'-6"
21"	3 @ 1'-7"	4'-9"	5 @ 1'-7"	7'-11"	7 @ 1'-7"	11'-1"
24"	4 @ 1'-11"	7'-8"	5 @ 1'-11"	9'-7"	8 @ 1'-11"	15'-4"
30"	4 @ 2'-7"	10'-4"	6 @ 2'-7"	15'-6"	10 @ 2'-7"	25'-10"
36"	5 @ 3'-1"	15'-5"	7 @ 3'-1"	21'-7"	12 @ 3'-1"	37'-0"
42"	6 @ 3'-9"	22'-6"	9 @ 3'-9"	33'-9"	14 @ 3'-9"	52'-6"
48"	7 @ 4'-5"	30'-11"	10 @ 4'-5"	44'-2"	16 @ 4'-5"	70'-8"
54"	8 @ 4'-11"	39'-4"	11 @ 4'-11"	54'-1"	18 @ 4'-11"	88'-6"
60"	8 @ 5'-7"	44'-8"	12 @ 5'-7"	67'-0"	20 @ 5'-7"	111'-8"
66"	9 @ 6'-1"	54'-9"	13 @ 6'-1"	79'-1"	22 @ 6'-1"	133'-10"
72"	10 @ 6'-7"	65'-10"	15 @ 6'-7"	98'-9"	24 @ 6'-7"	158'-0"
78"	-	-	-	-	-	-
84"	-	-	-	-	-	-

PIPE GRATE SCHEDULE FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.

SLOPE OF END SECTION						
Pipe I.D.	Table IIA, Corrugation : 3" x 1"					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	-	-	-	-	-	-
18"	-	-	-	-	-	-
21"	-	-	-	-	-	-
24"	-	-	-	-	-	-
30"	-	-	-	-	-	-
36"	6 @ 2'-11"	17'-6"	8 @ 2'-11"	23'-4"	13 @ 2'-11"	37'-11"
42"	7 @ 3'-5"	23'-11"	10 @ 3'-5"	34'-2"	15 @ 3'-5"	51'-3"
48"	8 @ 4'-1"	32'-8"	11 @ 4'-1"	44'-11"	18 @ 4'-1"	73'-6"
54"	9 @ 4'-7"	41'-3"	12 @ 4'-7"	55'-0"	20 @ 4'-7"	91'-10"
60"	9 @ 5'-1"	45'-9"	14 @ 5'-1"	71'-2"	22 @ 5'-1"	111'-10"
66"	10 @ 5'-9"	57'-6"	15 @ 5'-9"	86'-3"	24 @ 5'-9"	138'-0"
72"	11 @ 6'-5"	70'-7"	16 @ 6'-5"	102'-8"	26 @ 6'-5"	166'-10"
78"	12 @ 6'-11"	83'-0"	17 @ 6'-11"	117'-7"	28 @ 6'-11"	193'-8"
84"	12 @ 7'-7"	91'-0"	18 @ 7'-7"	136'-6"	30 @ 7'-7"	227'-6"

MODEL: 14d1 sheet4
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL ELLIPTICAL PIPE CULVERTS 15" THRU 72" DIA.

Pipe I.D.	SLOPE OF END SECTION					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	3 @ 2'-7"	7'-9"	5 @ 2'-7"	12'-11"	7 @ 2'-7"	18'-1"
18"	3 @ 2'-7"	7'-9"	5 @ 2'-7"	12'-11"	7 @ 2'-7"	18'-1"
21"	5 @ 3'-3"	16'-3"	7 @ 3'-3"	22'-9"	12 @ 3'-3"	39'-0"
24"	5 @ 3'-3"	16'-3"	7 @ 3'-3"	22'-9"	12 @ 3'-3"	39'-0"
27"	6 @ 3'-7"	21'-6"	8 @ 3'-7"	28'-8"	13 @ 3'-7"	46'-7"
30"	6 @ 3'-11"	23'-6"	9 @ 3'-11"	35'-3"	14 @ 3'-11"	54'-10"
36"	7 @ 4'-7"	32'-1"	10 @ 4'-7"	45'-10"	16 @ 4'-7"	73'-4"
42"	8 @ 5'-5"	43'-4"	11 @ 5'-5"	59'-7"	18 @ 5'-5"	97'-6"
48"	9 @ 6'-1"	54'-9"	13 @ 6'-1"	79'-1"	20 @ 6'-1"	121'-8"
54"	10 @ 6'-9"	67'-6"	14 @ 6'-9"	94'-6"	23 @ 6'-9"	155'-3"
60"	11 @ 7'-7"	83'-5"	15 @ 7'-7"	113'-9"	25 @ 7'-7"	189'-7"
66"	11 @ 8'-3"	90'-9"	17 @ 8'-3"	140'-3"	27 @ 8'-3"	222'-9"
72"	12 @ 8'-11"	107'-0"	18 @ 8'-11"	160'-6"	30 @ 8'-11"	267'-6"

MODEL: 14d1 sheet5
FILE NAME: DISTRICT 2 STANDARD

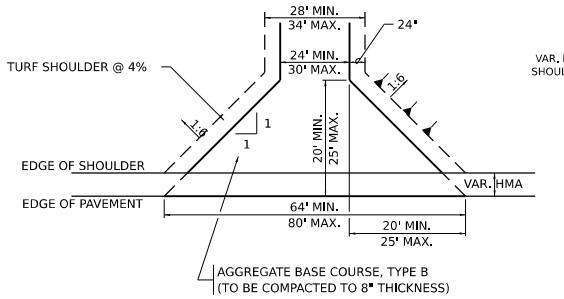
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-09-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

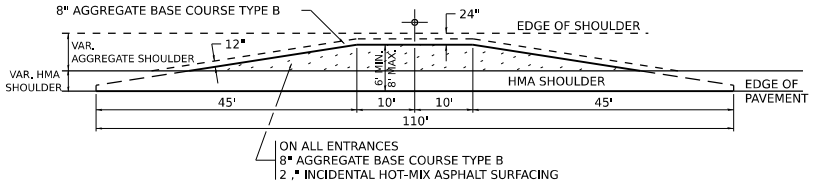
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

HOT–MIX ASPHALT APPROACHES AND MAILBOX RETURNS



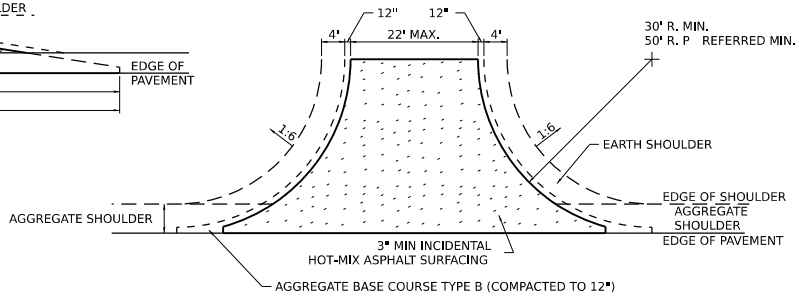
FIELD ENTRANCE



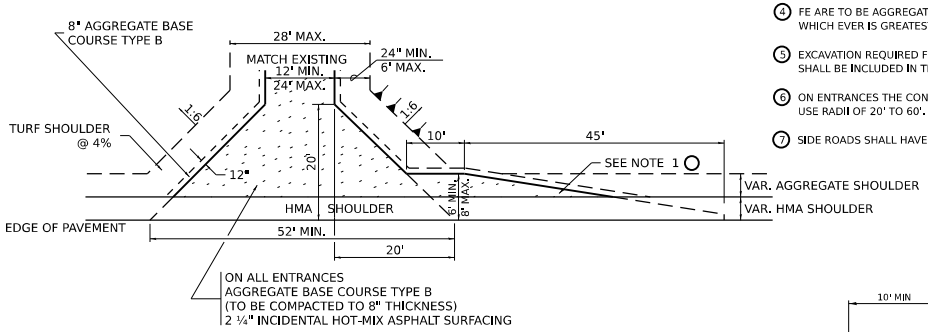
MAILBOX TURNOUT

NOTE

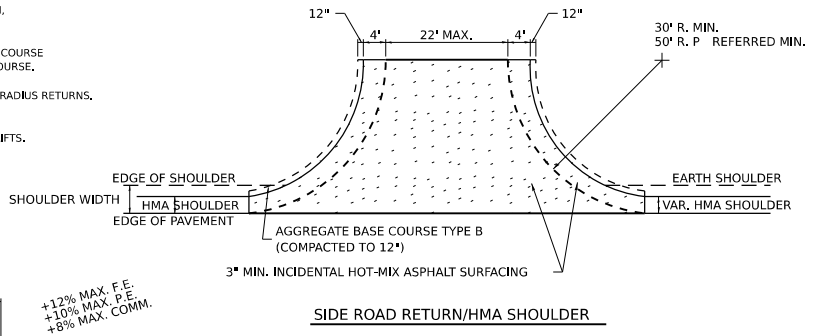
1. TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
2. ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
3. ALL PE & CE TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2 ¼" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
4. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
5. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
6. ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20' TO 60'.
7. SIDE ROADS SHALL HAVE 3" INCIDENTAL PLACED IN TWO 1½" LIFTS.



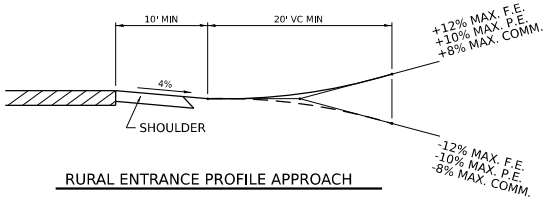
SIDE ROAD RETURN/EARTH SHOULDER



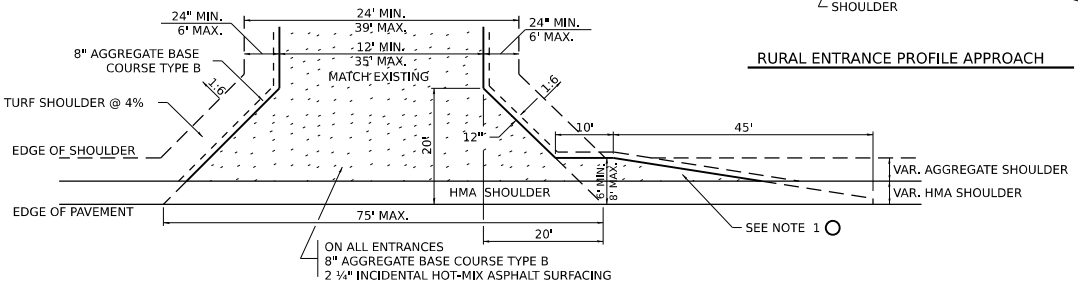
PRIVATE ENTRANCE



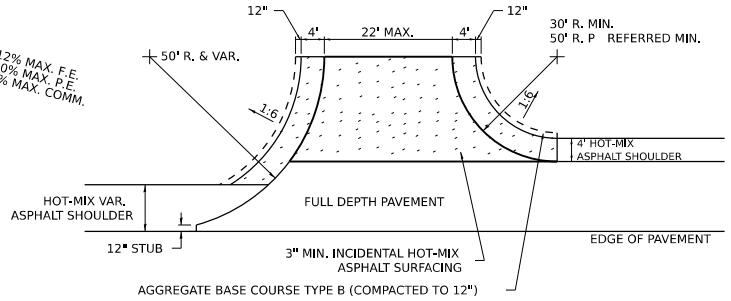
SIDE ROAD RETURN/HMA SHOULDER



RURAL ENTRANCE PROFILE APPROACH



COMMERCIAL ENTRANCE

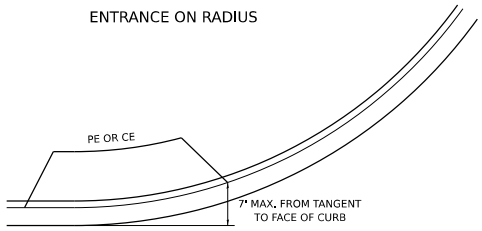


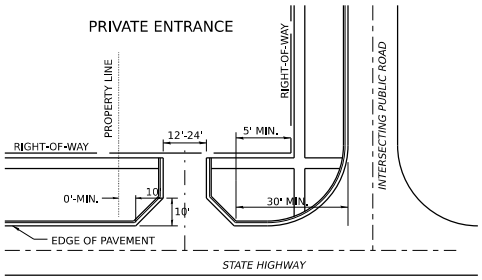
SIDE ROAD RETURN WITH RIGHT TURN LANE

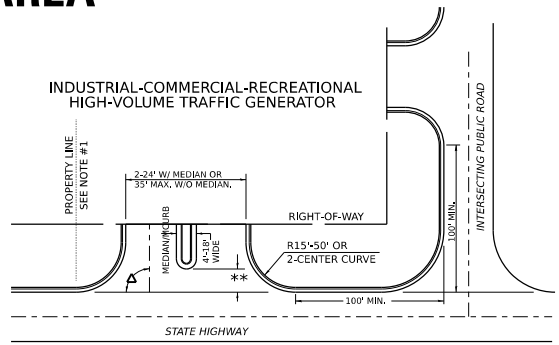
MODEL: 20p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 8-03-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-13-17			
	CHECKED -	REVISED - 6-27-14			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

ENTRANCE APPROACHES – URBAN AREA





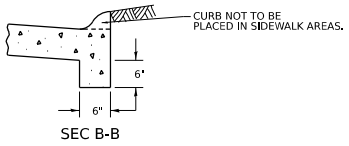


A MINIMUM OF 440 FEET SHALL BE MAINTAINED BETWEEN CENTER LINES OF ADJACENT DRIVEWAYS.

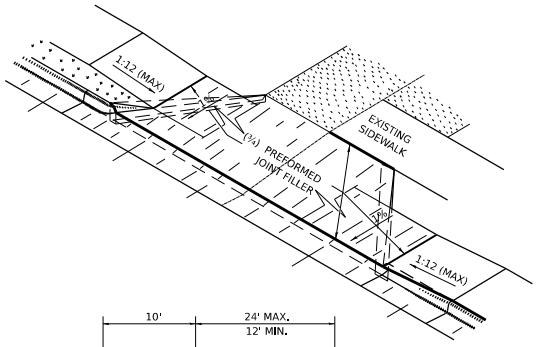
Δ90° DESIRABLE, 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS.
60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.

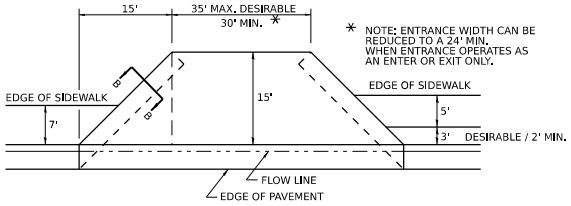
NOTE: #1 ENCROACHMENT ON THE ADJACENT PROPERTY OWNER LAND REQUIRES HIS OR HER WRITTEN APPROVAL.

** 4'-10' IF HIGHWAY CURBED.
AT EDGE OF SHOULDER IF HIGHWAY UNCURBED.

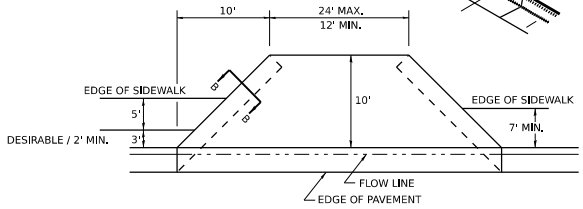


SEC B-B

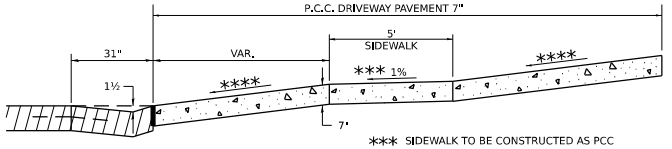




LOW TO MODERATE VOLUME COMMERCIAL ENTRANCE



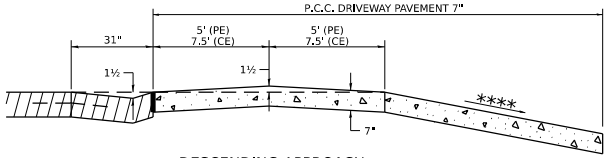
PRIVATE ENTRANCE



*** SIDEWALK TO BE CONSTRUCTED AS PCC DRIVEWAY PAVEMENT 7" THROUGH THE WIDTH OF THE DRIVEWAY. SEE DIST. STD. 35.4

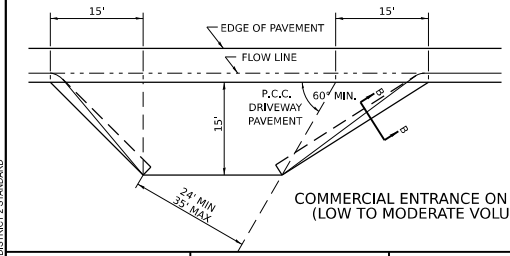
ASCENDING APPROACH

**** 4.0% DESIRABLE
6.0% MAX. COMMERCIAL
8.0% MAX. NON-COMMERCIAL

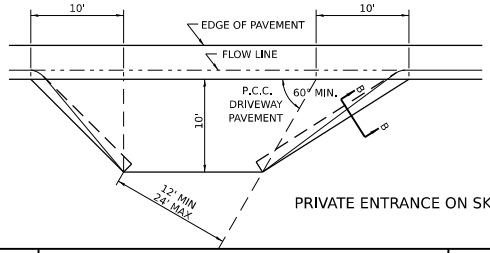


DESCENDING APPROACH
(NO SIDEWALK)

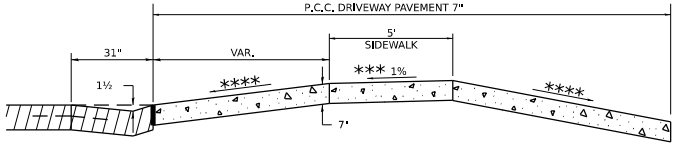
NOTE: CURVED ENTRANCE RETURNS MAY BE USED FOR LOW TO MODERATE VOLUME LOCATIONS WITH REVIEW ON A CASE-BY-CASE BASIS.



COMMERCIAL ENTRANCE ON SKEW
(LOW TO MODERATE VOLUME)



PRIVATE ENTRANCE ON SKEW

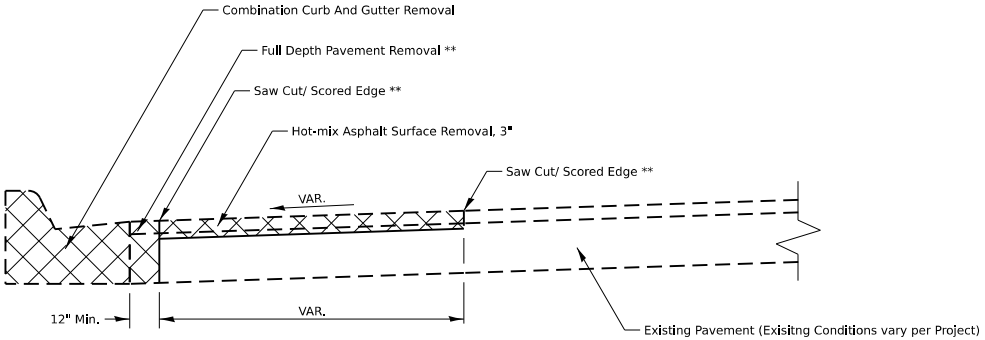


DESCENDING APPROACH
(WITH SIDEWALK)

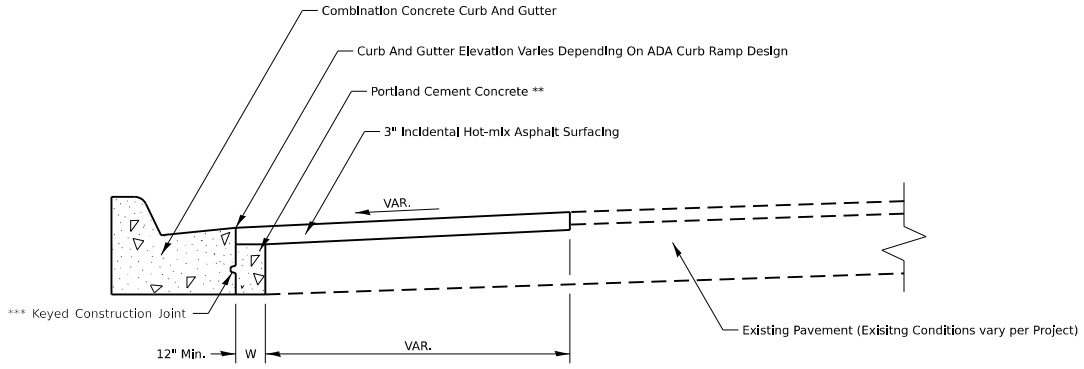
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 7-19-18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-03-18							
	CHECKED -	REVISED - 6-27-14						CONTRACT NO.	
PLOT DATE = 4/17/2025	DATE -	REVISED - 12-07-10		SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT	

MODEL: 25st1
FILE NAME: DISTRICT 2 STANDARD

ADA CURB RAMP PAVEMENT REMOVAL AND REPLACEMENT



PAVEMENT REMOVAL



PAVEMENT REPLACEMENT

GENERAL NOTES:

SEE STANDARD 606001 FOR CONCRETE CURB AND COMBINATION CURB AND GUTTER DETAILS NOT SHOWN.

SEE STANDARD 420001 FOR KEYED CONSTRUCTION JOINT DETAILS

SAW CUTTING/ SCORING SHALL BE INCLUDED IN THE UNIT COST OF HOT-MIX ASPHALT SURFACE REMOVAL.

FULL DEPTH PAVEMENT REMOVAL SHALL BE INCLUDED IN THE UNIT COST OF COMBINATION CURB AND GUTTER REMOVAL.

PORTLAND CEMENT CONCRETE NEEDED TO FILL IN THE FORMWORK AREA IN FRONT OF THE COMBINATION CURB AND GUTTER SHALL BE INCLUDED IN THE UNIT COST OF COMBINATION CONCRETE CURB AND GUTTER.

IF THERE IS A CHANGE IN RADIUS AND THE DISTANCE BETWEEN THE NEW COMBINATION CURB AND GUTTER AND THE EXISTING PAVEMENT IS 4FT OF GREATER, THE PCC IN FRONT OF THE CURB AND GUTTER SHALL BE TIED TO THE NEW COMBINATION CURB AND GUTTER AND THE EXISTING PAVEMENT WITH TIE BARS. TIE BARS SHALL BE INCLUDED IN THE UNIT COST OF COMBINATION CONCRETE CURB AND GUTTER.

CONSTRUCTION SEQUENCE

1. REMOVE EXISTING FULL DEPTH PAVEMENT AND CURB AND GUTTER
2. FORM AND POUR COMBINATION CONCRETE CURB AND GUTTER
3. REPLACE FULL DEPTH PAVEMENT WITH PORTLAND CEMENT CONCRETE (UP TO 3" FROM FINISHED SURFACE ELVATION TO ALLOW FOR HMA OVERLAY)
4. HOT-MIX ASPHALT REMOVAL AND REPLACEMENT.

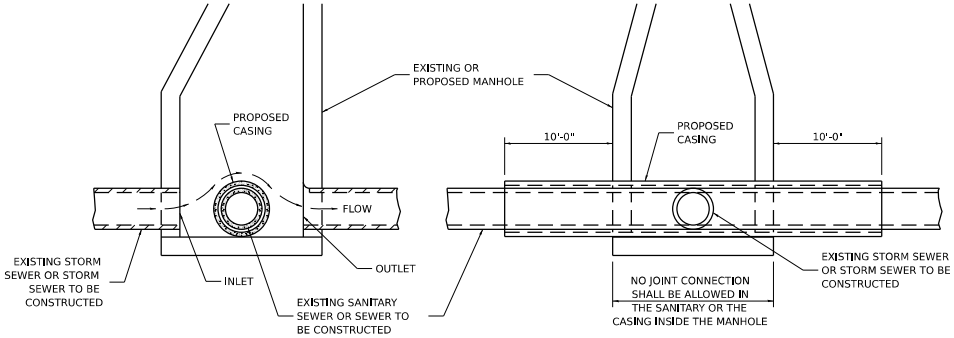
NOTES:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
** COST INCLUDED IN OTHER PAY ITEMS PER GENERAL NOTES
*** IF W > 24" TIE BARS SHALL BE USED INSTEAD OF A KEYED CONSTRUCTION JOINT

MODEL: 26d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-10-22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			
	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

SEWER AND WATER MAIN CROSSINGS



ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

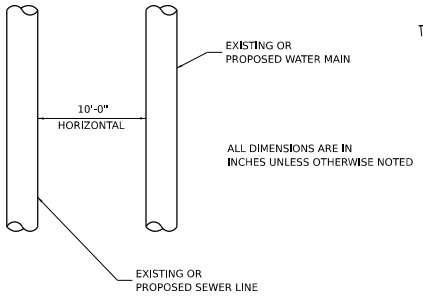
CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

AT GRADE CROSSING OF SANITARY AND STORM SEWER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

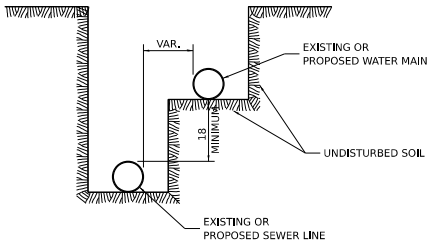
THIS DETAIL IS FOR UNKNOWN UTILITIES UNLESS QUANTITIES ARE INCLUDED IN THE PLANS THE EXTRA WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10'-0" OR MORE FROM EXISTING WATER (OR SEWER) NO SPECIAL CONSTRUCTION REQUIRED.



PLAN VIEW

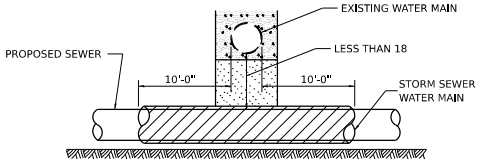
WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10'-0" FROM EXISTING WATER (OR SEWER) DETAILS BELOW SHALL APPLY.



WATER AND SEWER HORIZONTAL SEPARATION REQUIREMENTS

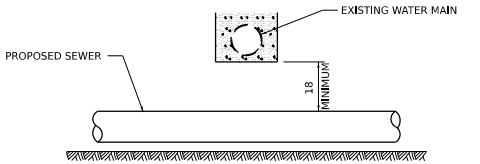
POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN

PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH



PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY

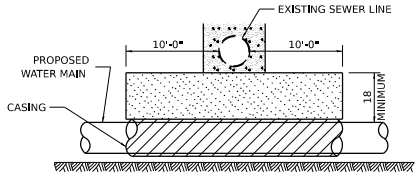


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT

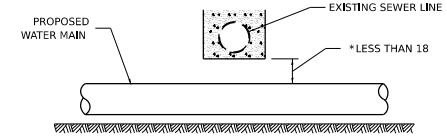
PLACE TRENCH BACKFILL FOR 10 FT. ON EITHER SIDE OF SEWER LINE



CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY

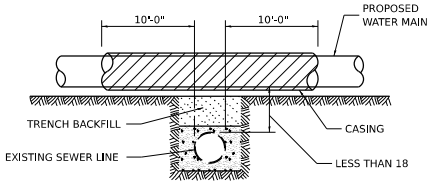


* NOT ALLOWED
MUST MAINTAIN 18 VERTICAL SEPARATION

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER

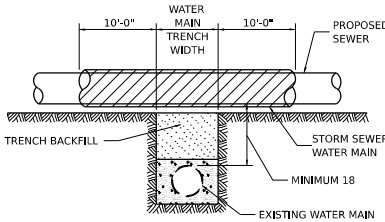


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH MINIMUM 18 VERTICAL SEPARATION

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 10-17-11	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	**REGION 2 / DISTRICT 2 STANDARD**
	CHECKED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.
PLOT DATE = 4/17/2025	DATE -	REVISED -	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

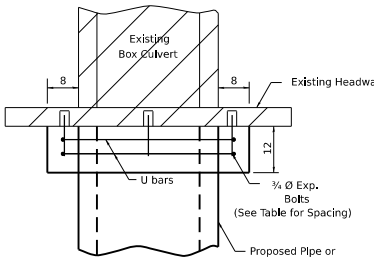
MODEL: 32of1
FILE NAME: DISTRICT 2 STANDARD

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

Bill of Materials

h bar	U bar dimensions				U_1 bar dimensions				REINF. BARS	EXPANSION BOLTS ¾"	CONCRETE COLLAR
Quantity	X	Y	Length	Quantity	X	Z	Length	Quantity	LBS	EACH	Cu. Yds.
								Total			

All h bars 18 Long



PLAN OF CULVERT WITH STRAIGHT HEADWALL

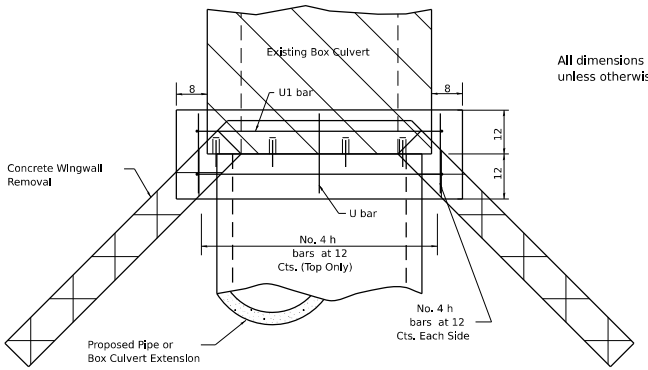
General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

Reinforcement bars shall conform to Section 508 of the Standard Specifications.

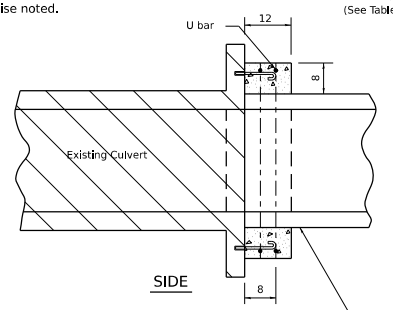
Expansion bolts shall be 3/4 Ø hooked bolts and shall conform to Section 540 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic yard for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per pound for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS ¾ Inch, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 9 inches into the new concrete.

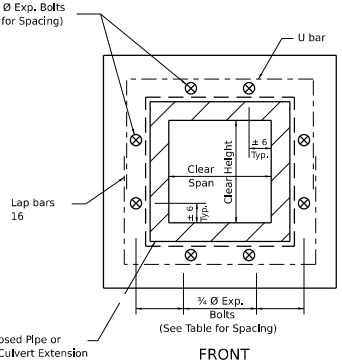


PLAN OF CULVERT WITH ANGLED WING WALLS

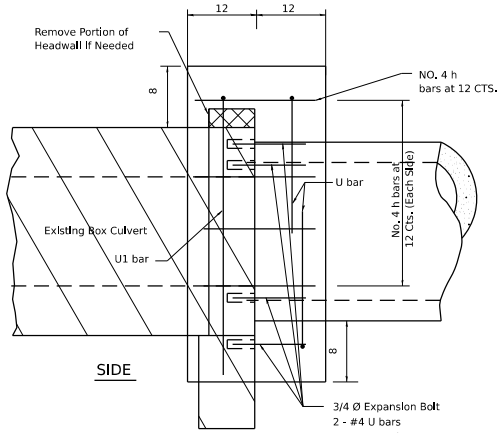
All dimensions are in inches unless otherwise noted.



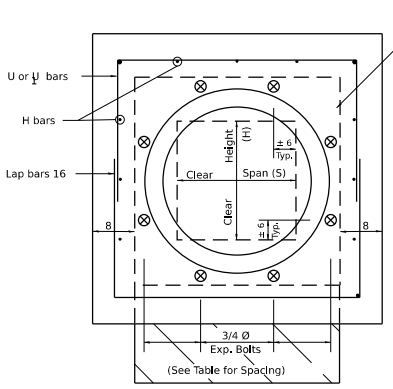
SIDE



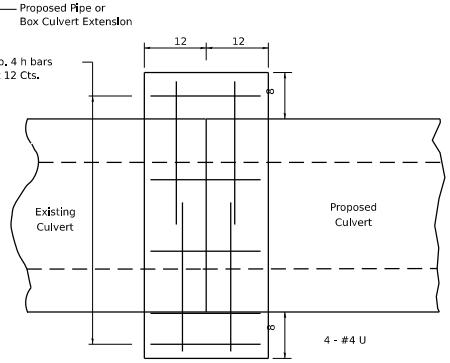
FRONT



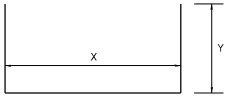
SIDE



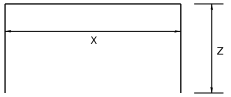
FRONT



CULVERT CONNECTION WITHOUT EXISTING HEADWALL



(#4) U bar



(#4) U_1 bar

PLACEMENT DETAILS FOR EXPANSION BOLTS

H or S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS ≤ 15'		EXTENSIONS > 15'	
	NUMBER *	SPACING	NUMBER *	SPACING
24	**	**	**	**
30	2	18	2	18
36	2	24	2	24
48	3	18	3	18
60	4	16	3	24
72	5	15	4	20
84	5	18	4	24
96	6	17	5	21
108	6	19	5	24
120	7	18	6	21
132	8	17	6	24
144	8	19	7	22

* Expansion bolts based on non-skewed culverts
** Minimum one expansion bolt at each corner

Example:
6' x 4' box culvert to be extended 18' at one end only.

From table find
6' side requires 4 - ¾" Ø expansion bolts at 20" cts.
4' side requires 3 - ¾" Ø expansion bolts at 18" cts.

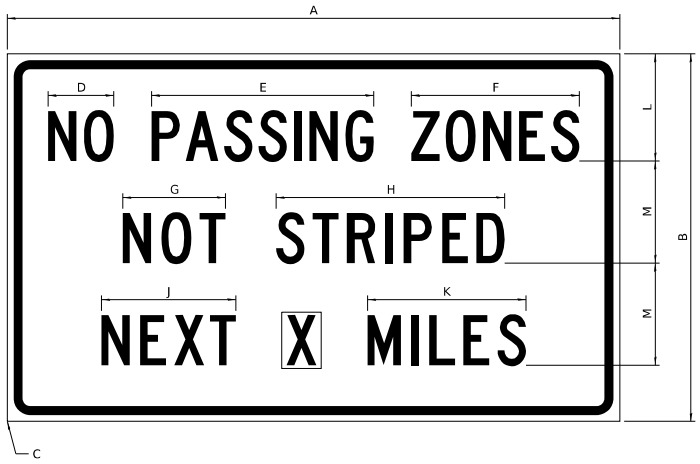
Total Number required
(4+3)2 = 14 - ¾" Ø expansion bolts.

MODEL: 33p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-18-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			CONTRACT NO.
	CHECKED -	REVISED - 6-27-14		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT
PLOT DATE = 4/17/2025	DATE -	REVISED - 10-17-11			

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20–I100



COLOR — LEGEND AND BORDER: BLACK; BACKGROUND: ORANGE; NON-REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

GENERAL NOTES

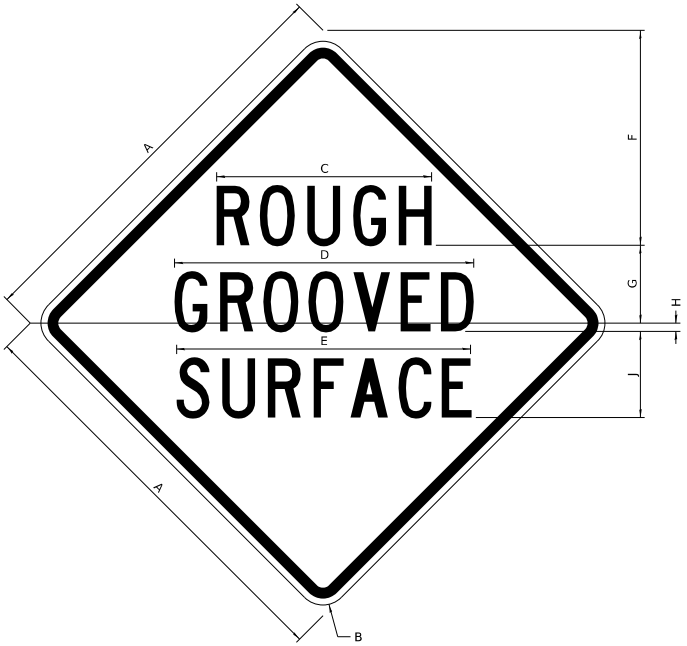
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8–I107



COLOR — LEGEND AND BORDER: BLACK; BACKGROUND: ORANGE; NON-REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

MODEL: 34d1_sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

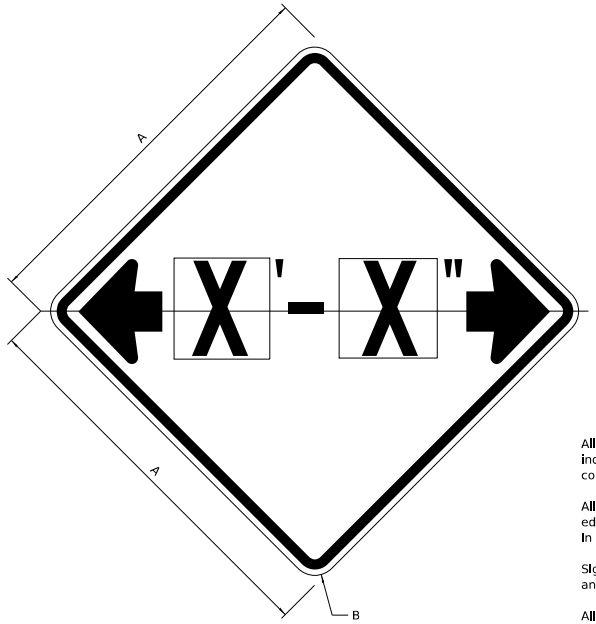
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12–I102

(1)



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	FL ORANGE	REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

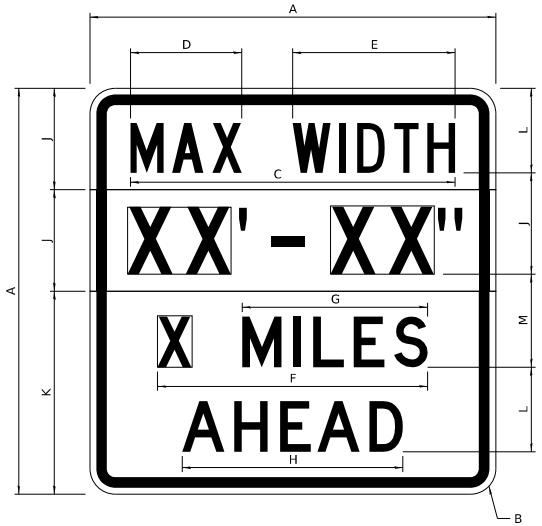
(1) Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

ILLINOIS STANDARD W12–I103

(1)



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	WHITE	REFLECTORIZED
	BACKGROUND (WIDTH)	FL ORANGE	REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE
TOP AND BOTTOM OF BACKGROUND WHITE

MODEL: 34d1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

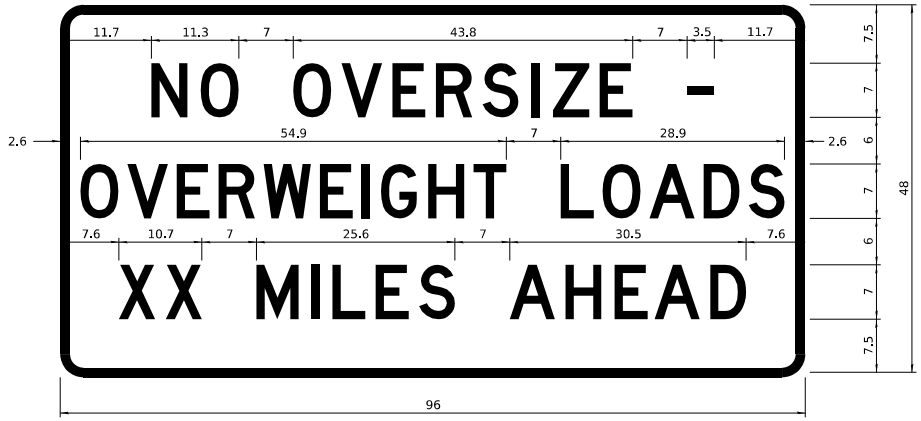
REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND ORANGE REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
[NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
Table of letter and object lefts.

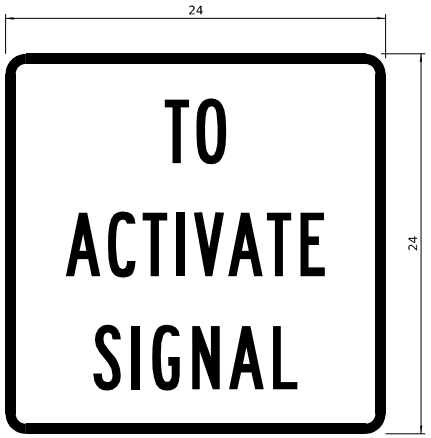
N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND WHITE REFLECTORIZED

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

MODEL: 34d1 sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

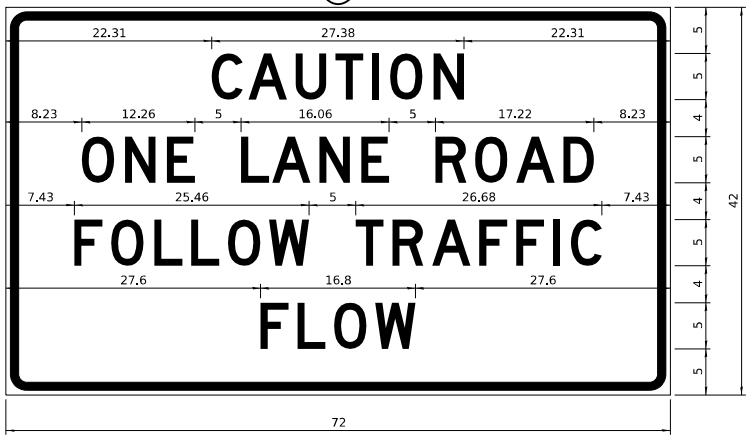
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

WORK ZONE SIGN DETAILS

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS

(2)



COLOR	LEGEND AND BORDER	BLACK
	BACKGROUND	ORANGE

NON-REFLECTORIZED
REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" IndenT;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

(2) This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31

8.23	O 3.51	1.17	N 3.36	1.18	E 3.04

5.00	L 3.05	0.31	A 4.18	0.94	N 3.36	1.17	E 3.05

5.00	R 3.36	0.93	O 3.52	0.94	A 4.18	0.93	D 3.36	8.23

7.43	F 3.04	0.94	O 3.52	1.17	L 3.04	0.94	L 3.05	0.94	O 3.51	0.94	W 4.37

5.00	T 3.05	0.94	R 3.36	0.94	A 4.18	0.93	F 3.05	0.94	F 3.04	0.94	I 0.78	1.18	C 3.35	7.43

27.60	F 3.05	0.94	L 3.04	0.94	O 3.52	0.93	W 4.38	27.60

Sign not to scale

GENERAL NOTES

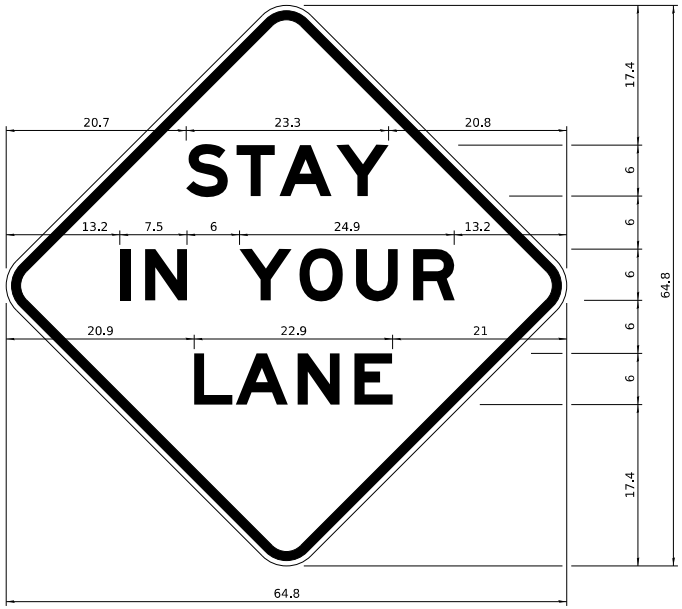
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S 20.7	T 26.8	A 31.6	Y 38.0

I 13.2	N 15.9	Y 26.7	O 33.9	U 40.5	R 46.8

L 20.9	A 25.8	N 33.1	E 39.4

Sign not to scale

MODEL: 34d1 sheet4
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 3-02-16
	DRAWN -	REVISED -
PLOT DATE = 4/17/2025	CHECKED -	REVISED -
	DATE -	REVISED -

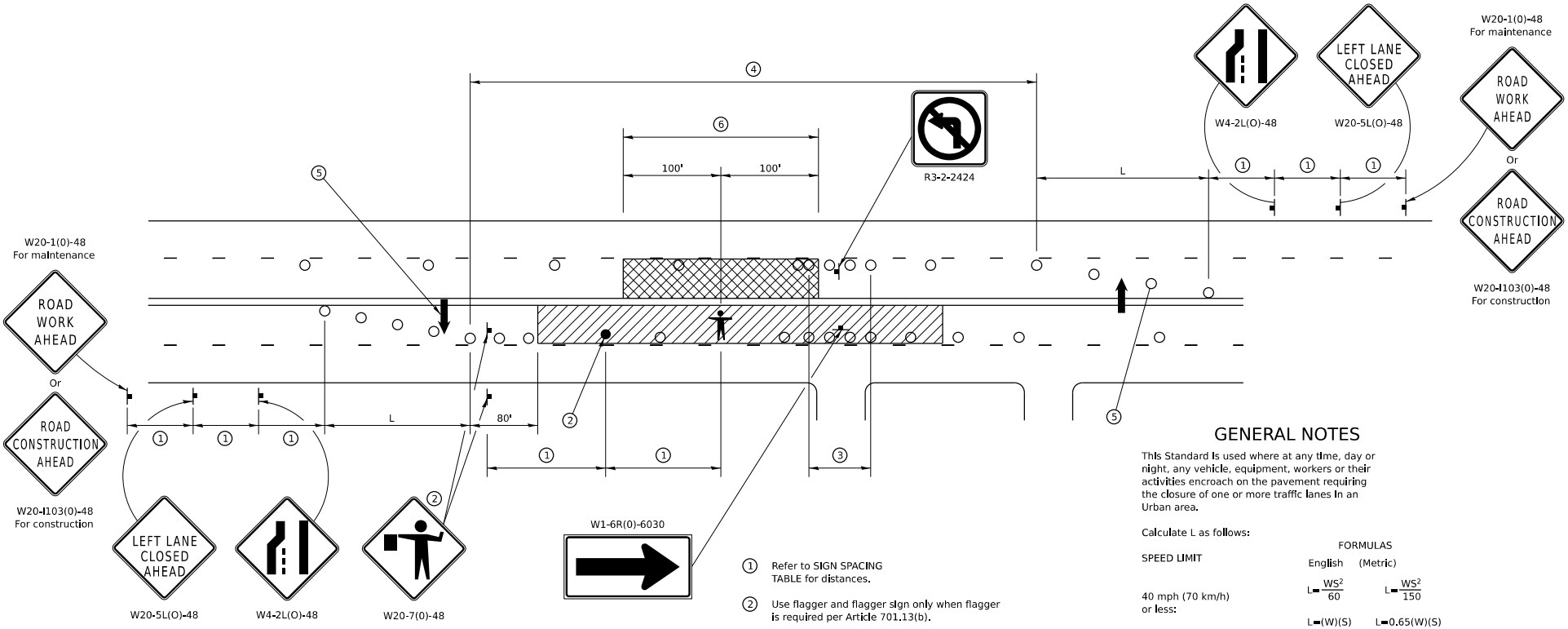
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

URBAN LANE INSIDE CLOSURE, MULTILANE, 2–WAY, WITH MOUNTABLE MEDIAN



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- WORK AREA
- CLOSED LANE
- ARROW BOARD
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- CONE, DRUM OR BARRICADE
- FLAGGER WITH TRAFFIC CONTROL SIGN.
- WORKER ON FOOT

(1) Refer to SIGN SPACING TABLE for distances.

(2) Use flagger and flagger sign only when flagger is required per Article 701.13(b).

(3) Devices at 10' centers from edge of radius return to edge of radius return when left turns are prohibited due to actively working in the intersection.

(4) Cones at 20' (6 m) centers for 250' (75 m). Additional cones may be placed at 40' (12 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled (excluding devices in intersections).

(5) Cones, drums or barricades at 20' (6 m) centers in taper.

(6) No equipment, materials, vehicles, or other hazards are allowed in the closed lane in the opposite direction within 100' of a worker on foot.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one or more traffic lanes in an Urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Lane closures in the opposite direction shall be removed when no workers are present.

Cones or reflectorized cones shall not be used during hours of darkness.

This Traffic Control detail shall be included in the cost of Traffic Control and Protection Standard 701606.

MODEL: 3ds1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	1-05-16
	DRAWN -	REVISED -	7-22-14
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

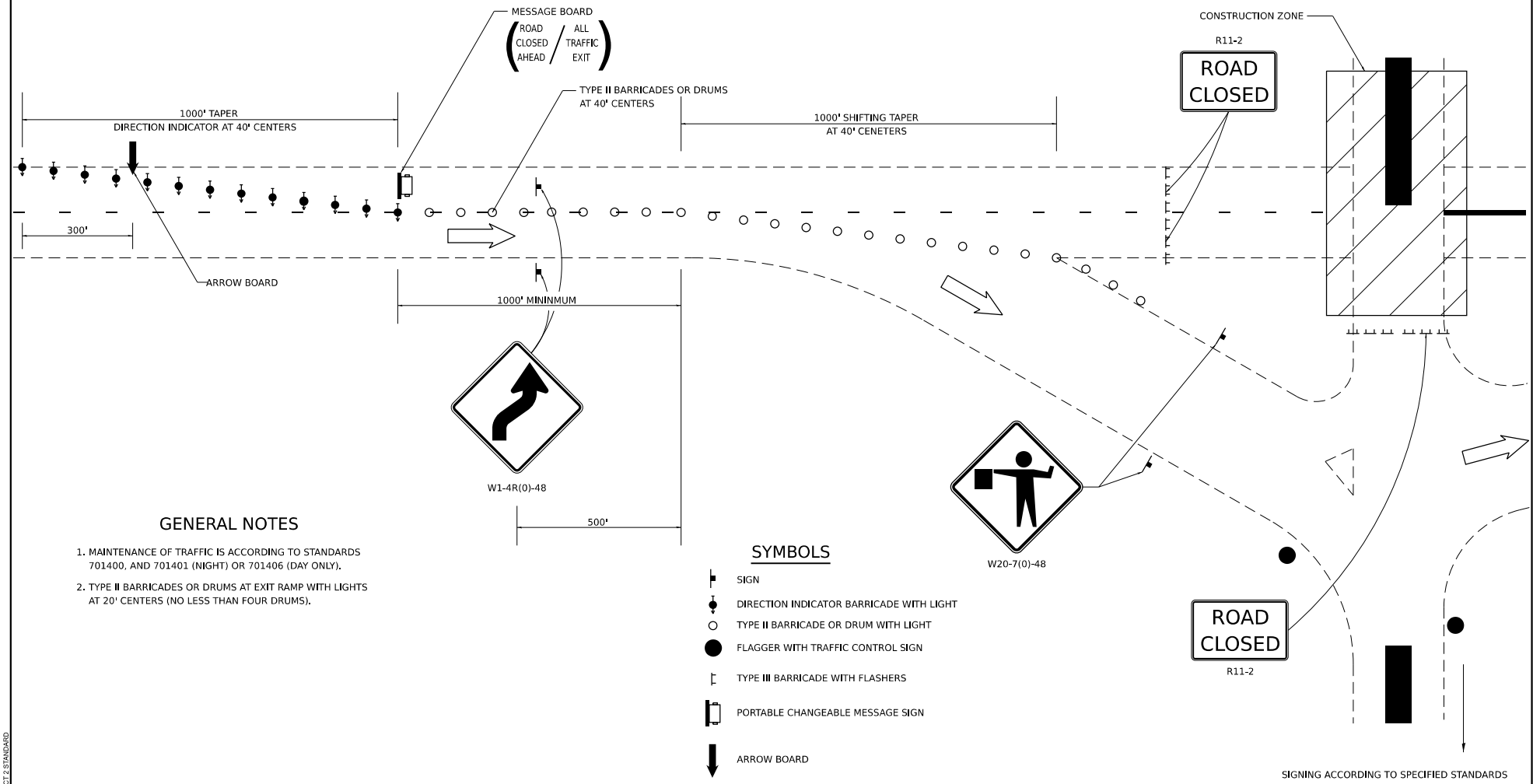
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

TEMPORARY ROAD CLOSURE EXPRESSWAY



GENERAL NOTES

1. MAINTENANCE OF TRAFFIC IS ACCORDING TO STANDARDS 701400, AND 701401 (NIGHT) OR 701406 (DAY ONLY).
2. TYPE II BARRICADES OR DRUMS AT EXIT RAMP WITH LIGHTS AT 20' CENTERS (NO LESS THAN FOUR DRUMS).

SYMBOLS

- SIGN
- DIRECTION INDICATOR BARRICADE WITH LIGHT
- TYPE II BARRICADE OR DRUM WITH LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN
- ARROW BOARD

SIGNING ACCORDING TO SPECIFIED STANDARDS

MODEL: 36d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-20-17	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED - 1-05-16	
	CHECKED -	REVISED - 8-27-13	
PLOT DATE = 4/17/2025	DATE -	REVISED - 4-04-11	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

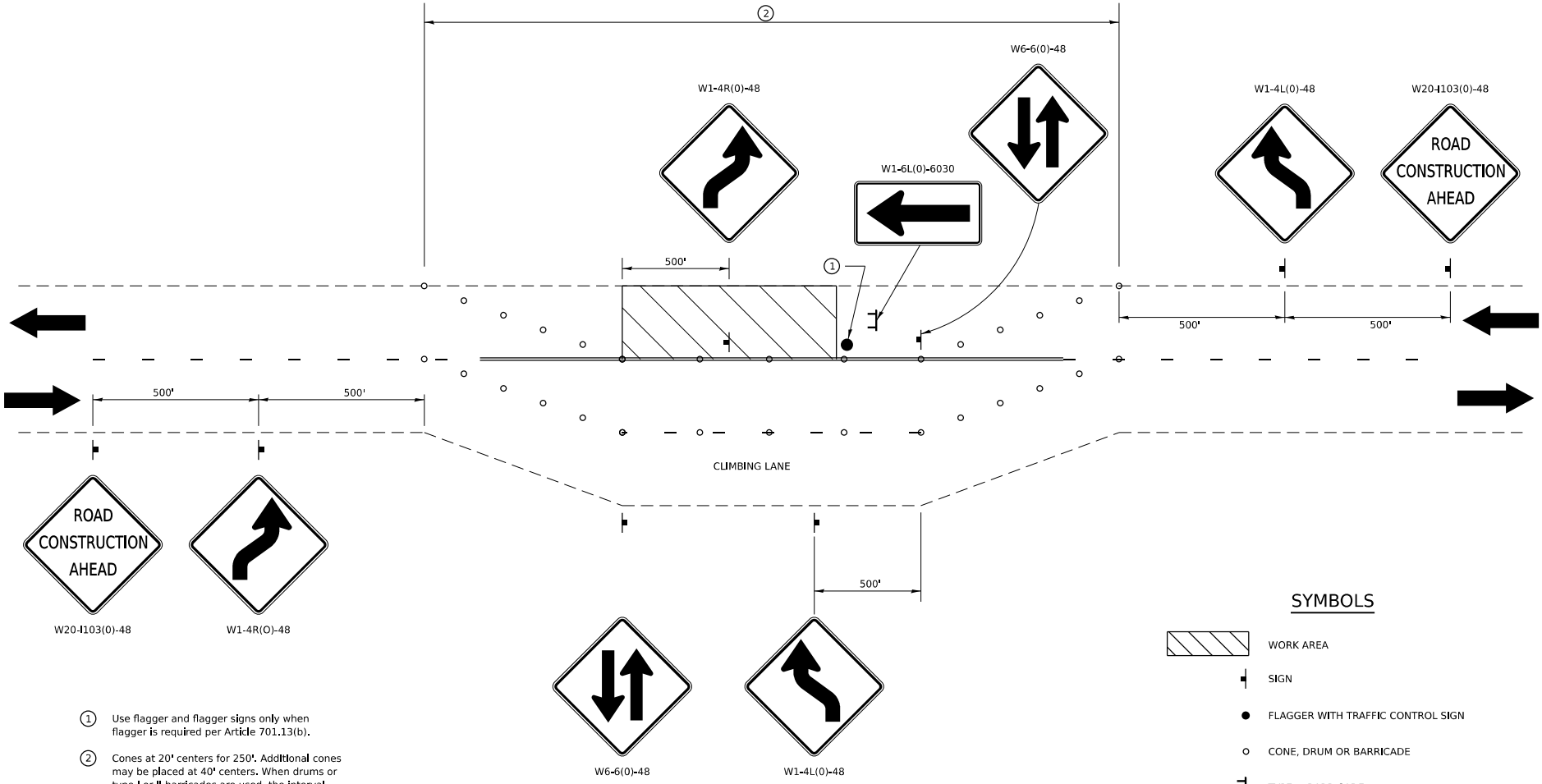
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

TRAFFIC CONTROL FOR THREE LANE SECTION

CASE 1



SYMBOLS

- WORK AREA
- SIGN
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE
- TYPE III BARRICADE

① Use flagger and flagger signs only when flagger is required per Article 701.13(b).

② Cones at 20' centers for 250'. Additional cones may be placed at 40' centers. When drums or type I or II barricades are used, the interval between devices may be doubled.

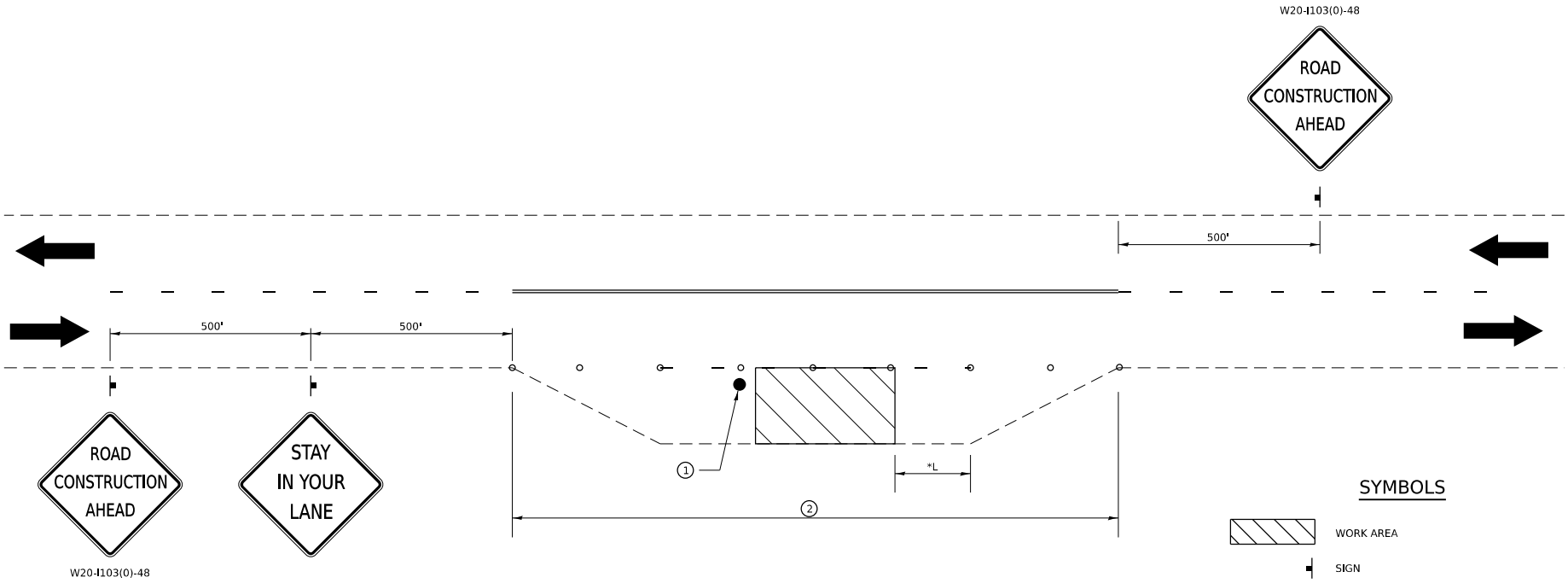
THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

MODEL: 37p1_sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 8-27-13			
	CHECKED -	REVISED - 7-30-13			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

TRAFFIC CONTROL FOR THREE LANE SECTION

CASE 2



SYMBOLS

- WORK AREA
- SIGN
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE

(1) Use flagger and flagger signs only when flagger is required per Article 701.13(b).

(2) Cones at 20' centers for 250'. Additional cones may be placed at 40' centers. When drums or type I or II barricades are used, the interval between devices may be doubled.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

*IF THE WORK ENDS WITHIN 2500 FEET OF THE TRANSITION WHEN THE SPEED IS > 40 MPH OR 1500 FEET FOR ALL OTHER SPEEDS, THE CLIMBING LANE SHALL REMAIN CLOSED AS SHOWN.

MODEL: 37pt1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16
	DRAWN -	REVISED - 8-27-13
	CHECKED -	REVISED - 7-30-13
PLOT DATE = 4/17/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

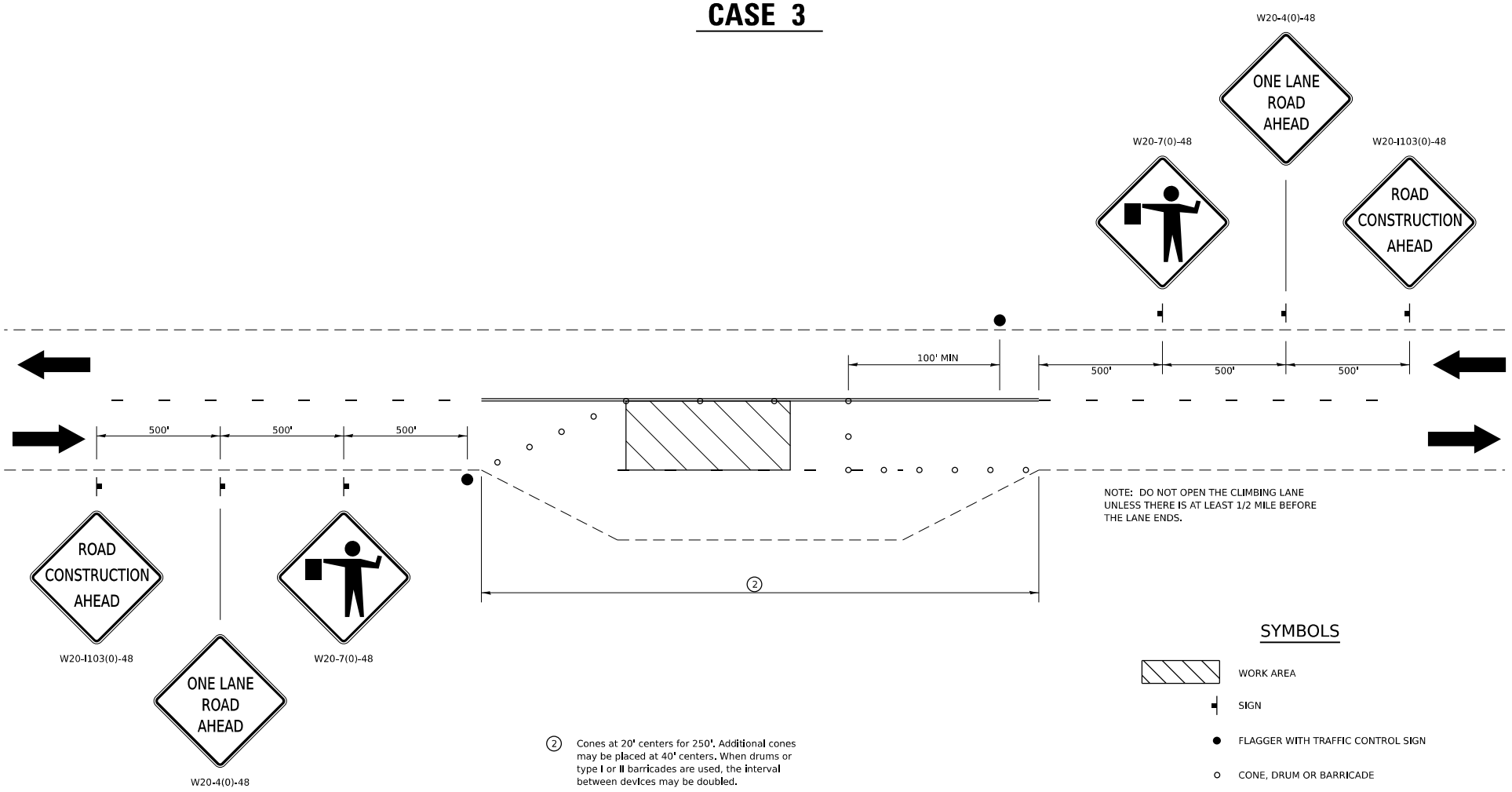
REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL FOR THREE LANE SECTION

CASE 3



NOTE: DO NOT OPEN THE CLIMBING LANE UNLESS THERE IS AT LEAST 1/2 MILE BEFORE THE LANE ENDS.

SYMBOLS

- WORK AREA
- SIGN
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE

(2) Cones at 20' centers for 250'. Additional cones may be placed at 40' centers. When drums or type I or II barricades are used, the interval between devices may be doubled.

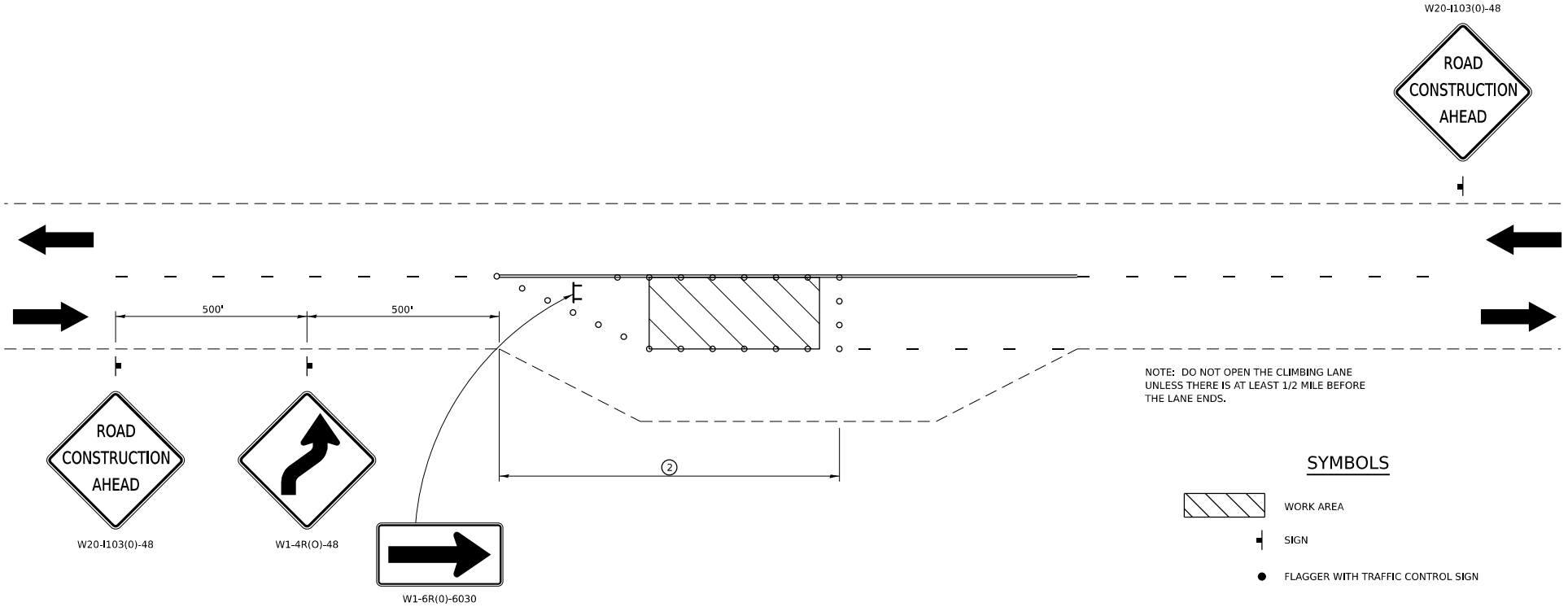
THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

MODEL: 37p1_sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 8-27-13	REGION 2 / DISTRICT 2 STANDARD
	CHECKED -	REVISED - 7-30-13	SCALE: SHEET OF SHEETS STA. TO STA.
PLOT DATE = 4/17/2025	DATE -	REVISED -	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. CONTRACT NO. ILLINOIS FED. AID PROJECT

TRAFFIC CONTROL FOR THREE LANE SECTION

CASE 4



NOTE: DO NOT OPEN THE CLIMBING LANE UNLESS THERE IS AT LEAST 1/2 MILE BEFORE THE LANE ENDS.

SYMBOLS

- WORK AREA
- SIGN
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE
- TYPE III BARRICADE

(2) Cones at 20' centers for 250'. Additional cones may be placed at 40' centers. When drums or type I or II barricades are used, the interval between devices may be doubled.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

CASE 4 APPLIES WHEN NO WORKERS ARE PRESENT. WHEN WORKERS ARE PRESENT, TWO LANES SHALL BE CLOSED AND TRAFFIC CONTROL SHALL BE ACCORDING TO CASE 3.

MODEL: 37pt1_sheet4
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 8-27-13	
	CHECKED -	REVISED - 7-30-13	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

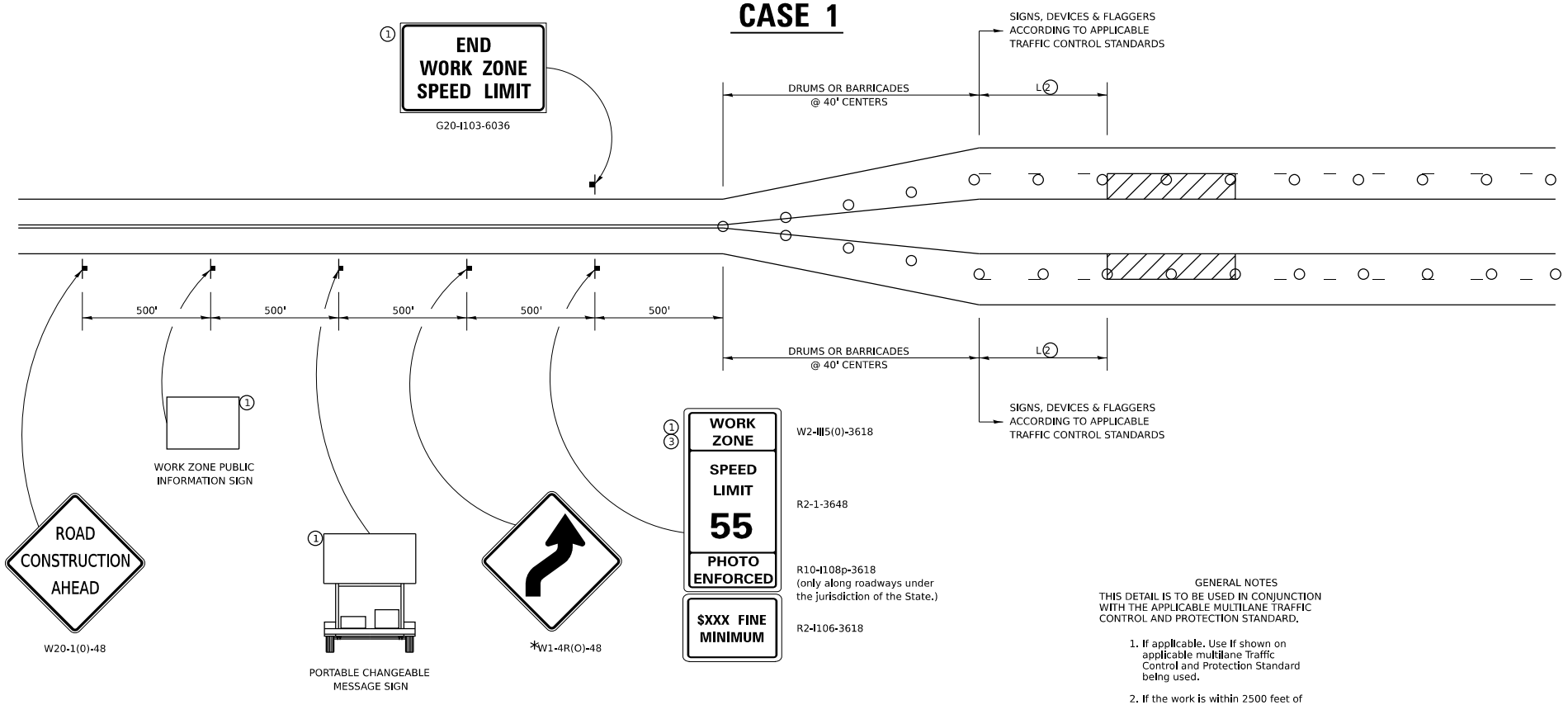
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 1



GENERAL NOTES

THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

DRUMS OR BARRICADES WITH LIGHTS

WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

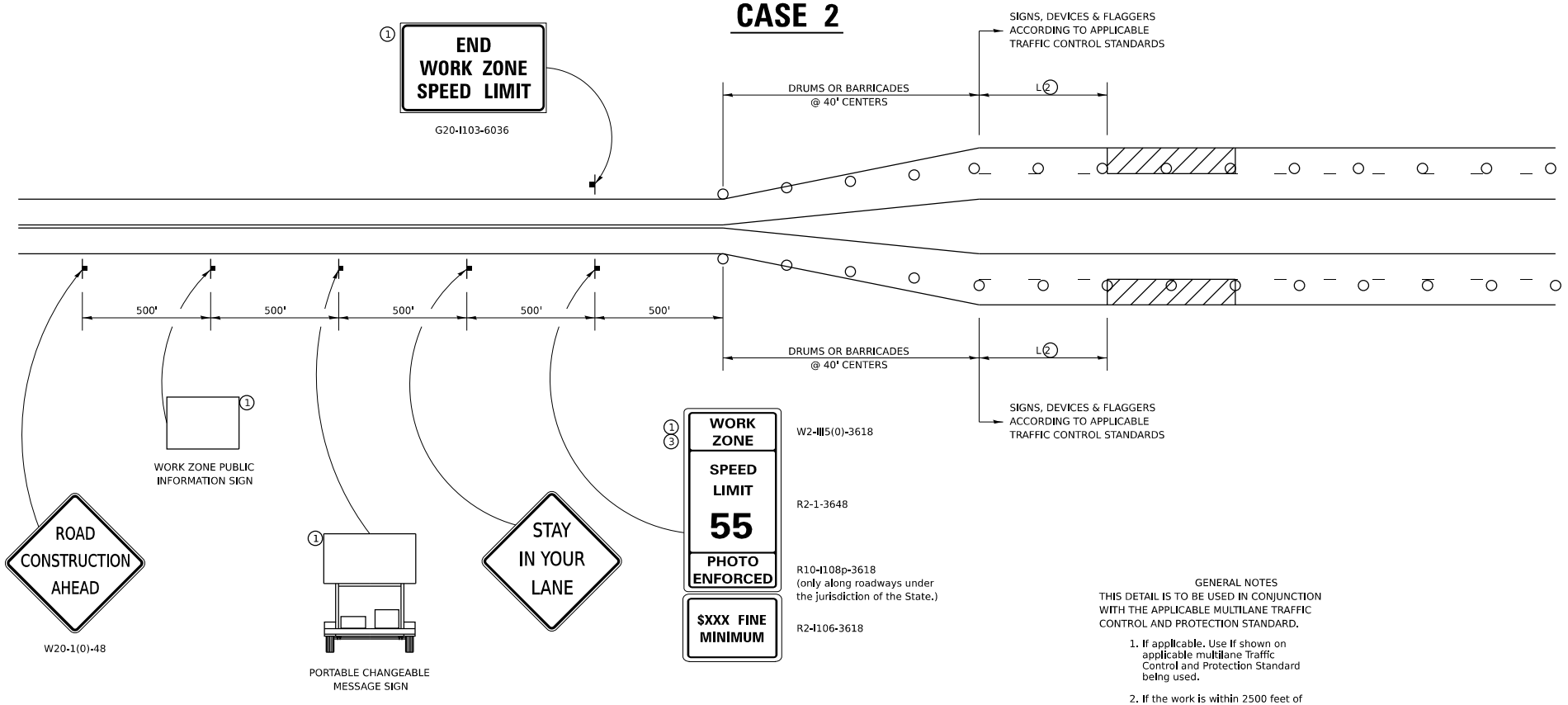
* DEPENDS ON GEOMETRICS OF THE TRANSITION. MAY SWITCH THE "STAY IN YOUR LANE" AND "WEAVE SIGNS"

MODEL: 38d1_sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			CONTRACT NO.
	CHECKED -	REVISED - 8-27-13		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT
PLOT DATE = 4/17/2025	DATE -	REVISED - 1-16-13			

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 2



GENERAL NOTES

THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

DRUMS OR BARRICADES WITH LIGHTS

WORK AREA

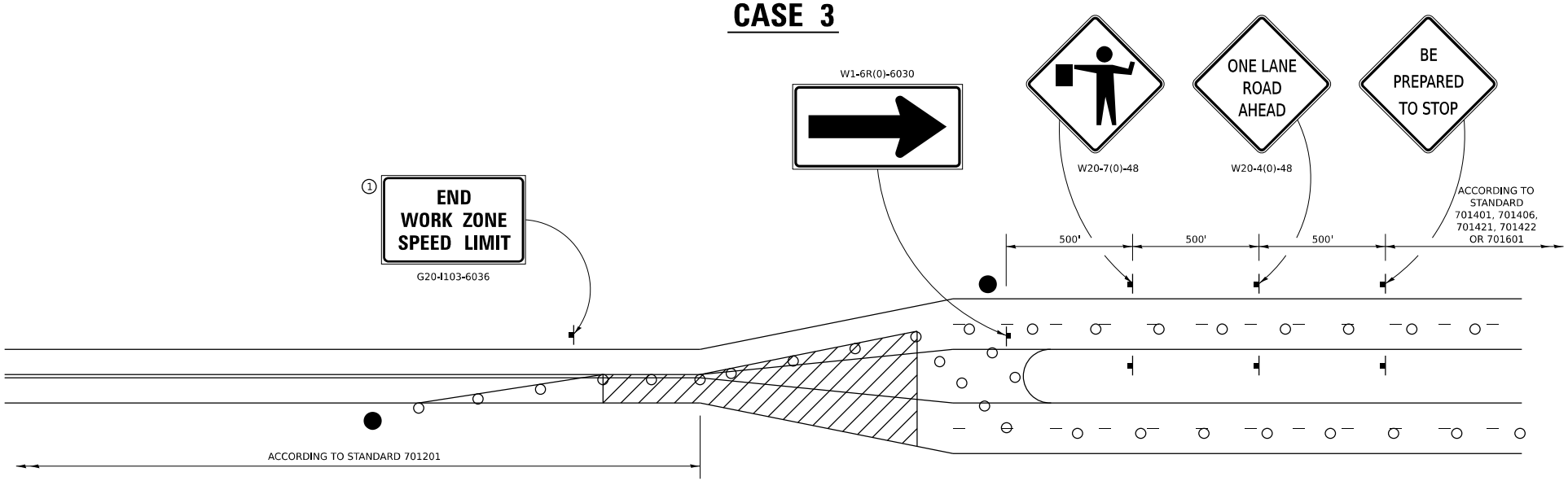
NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

MODEL: 38d1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 8-27-13			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 1-16-13		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 3



FLAGGER WITH TRAFFIC CONTROL SIGN

DRUMS OR BARRICADES WITH LIGHTS

WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

GENERAL NOTES

THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

MODEL: 38d1_sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 1-05-16	
	CHECKED -	REVISED - 8-27-13	
PLOT DATE = 4/17/2025	DATE -	REVISED - 3-05-12	

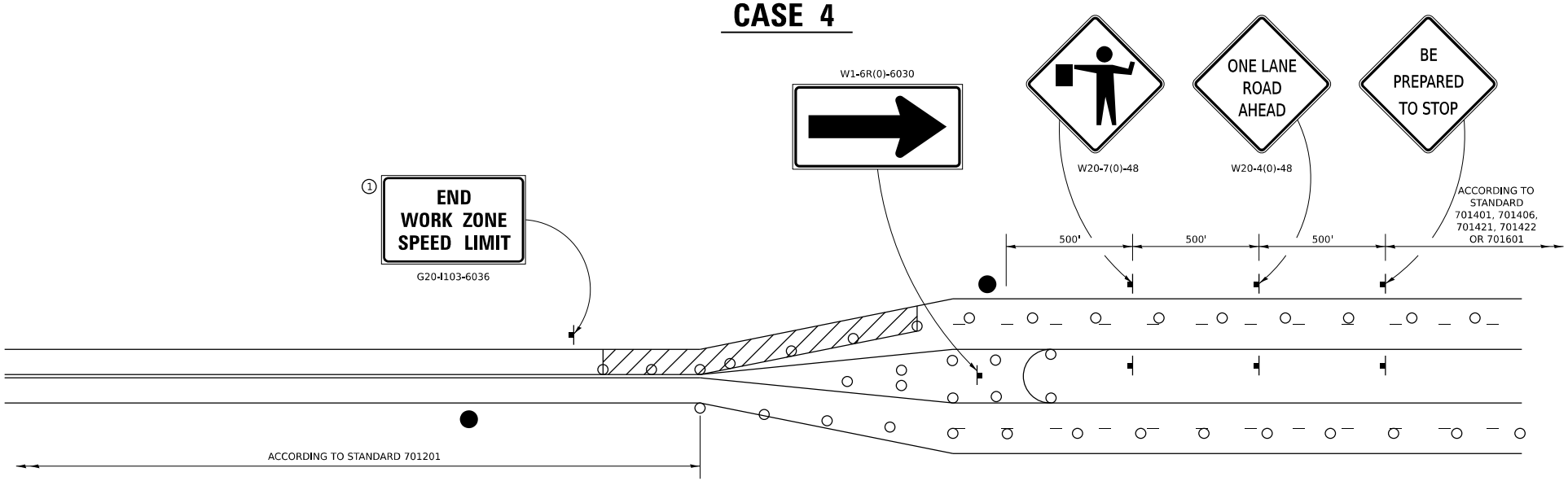
REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL FOR TRANSITION AREAS

CASE 4



FLAGGER WITH TRAFFIC CONTROL SIGN

DRUMS OR BARRICADES WITH LIGHTS

WORK AREA

NOTE: STANDARDS 701301 AND 701306 SHALL NOT BE USED WITHIN 500 FEET OF THE TRANSITION.

GENERAL NOTES

THIS DETAIL IS TO BE USED IN CONJUNCTION WITH THE APPLICABLE MULTILANE TRAFFIC CONTROL AND PROTECTION STANDARD.

1. If applicable. Use if shown on applicable multilane Traffic Control and Protection Standard being used.
2. If the work is within 2500 feet of the transition when the speed is > 40 mph, or 1500 feet for all other speeds, the detail shall be used.
3. WORK ZONE SPEED LIMIT 55 SIGN ASSEMBLY shall be replaced with WORK ZONE SPEED LIMIT 45 SIGN ASSEMBLY where the workers are within 500 feet of the transition.

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

MODEL: 38d1 sheet4
FILE NAME: DISTRICT 2 STANDARD

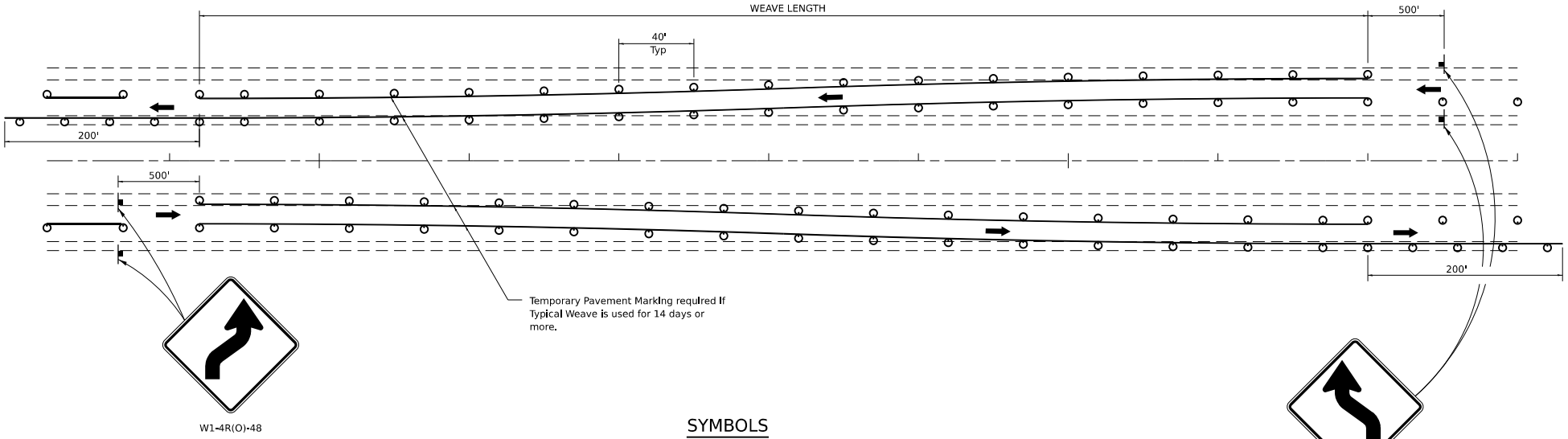
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-20-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 1-05-16	
	CHECKED -	REVISED - 8-27-13	
PLOT DATE = 4/17/2025	DATE -	REVISED - 3-05-12	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TRAFFIC CONTROL TYPICAL WEAVE



SYMBOLS

DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT

SIGN

STANDARD WEAVE CONDITIONS FOR DIFFERENT SPEED LIMITS

POSTED SPEED LIMIT	WEAVE LENGTH
65 MPH OR HIGHER	780 FT.
55 MPH	660 FT.
45 MPH	540 FT.

GENERAL NOTES:

USE ON LONG 4-LANE PROJECTS WHERE THE CONTRACTOR MAY CHANGE A PORTION OF THE WORK TO THE OPPOSITE LANE.

USE WHERE THE PROJECT IS ADJACENT TO ANOTHER AND THE CONTRACTOR COULD BE WORKING ON DIFFERENT LANES.

TEMPORARY PAVEMENT MARKING SHALL BE USED WHEN TYPICAL WEAVE IS USED FOR 14 DAYS OR MORE.

TRAFFIC CONTROL TYPICAL WEAVE SHALL BE INCLUDED IN THE COST OF THE SPECIFIC TRAFFIC CONTROL STANDARDS OF ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 39pt1
FILE NAME: DISTRICT 2 STANDARD

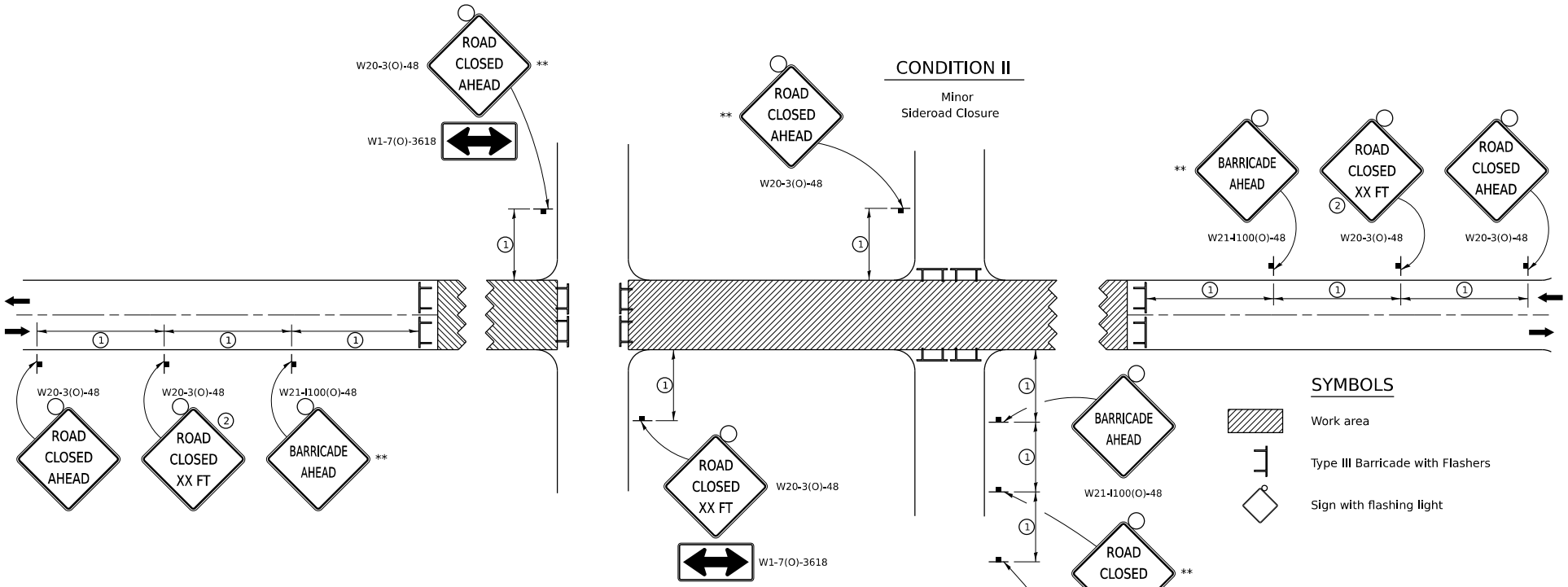
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED - 6-27-14	
	CHECKED -	REVISED - 8-27-13	
PLOT DATE = 4/17/2025	DATE -	REVISED - 10-17-11	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC CONTROL FOR ROAD CLOSURE



CONDITION II

Minor
Sideroad Closure

CONDITION I

Major
Sideroad Closure

SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

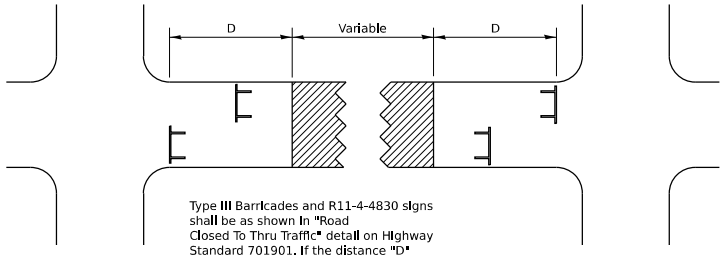
① SIGN SPACING TABLE

Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

② SIGN LEGEND

Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed To Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

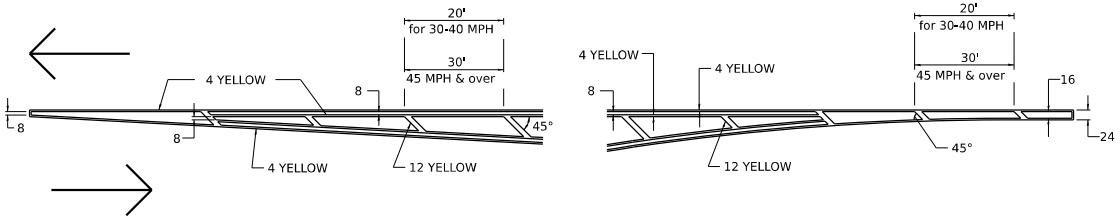
MODEL: 40p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 8-03-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD
	CHECKED -	REVISED - 8-27-13	
PLOT DATE = 4/17/2025	DATE -	REVISED - 10-17-11	SCALE: SHEET OF SHEETS STA. TO STA.

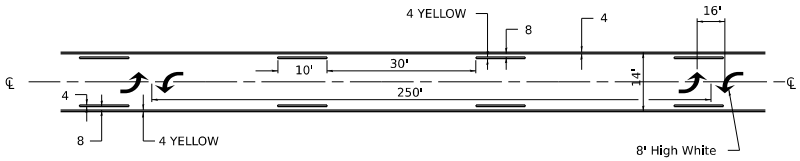
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

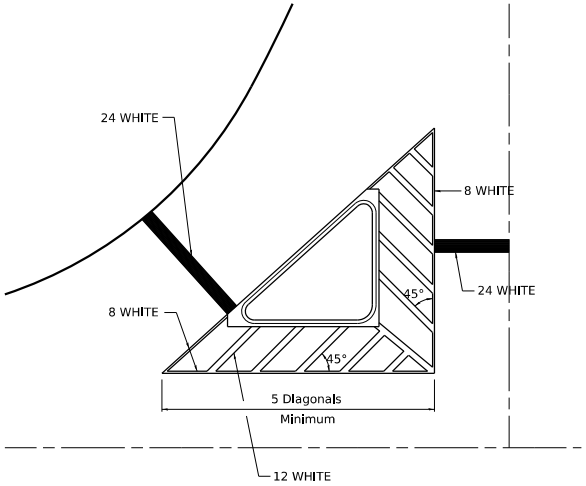


MEDIAN PAVEMENT MARKING



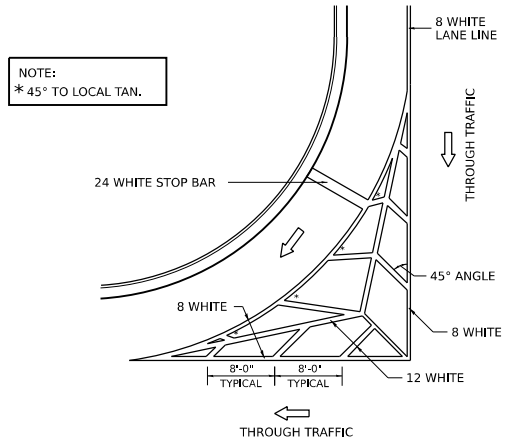
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



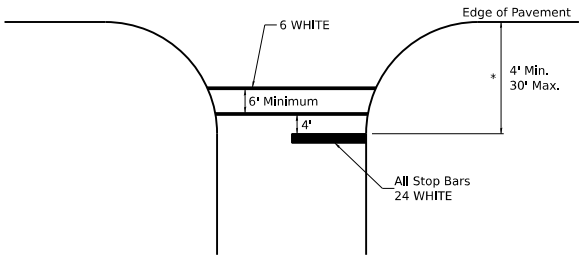
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



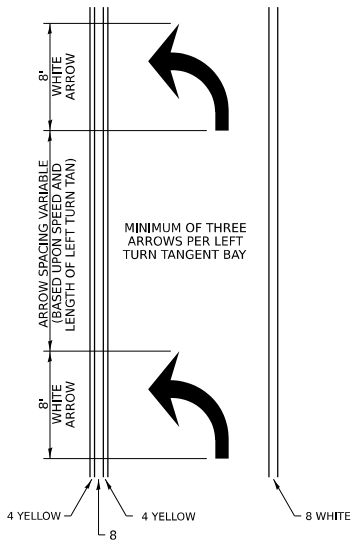
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

MODEL: 41p1_sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 3-05-12			CONTRACT NO.
PLOT DATE = 4/17/2025	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT
	DATE -	REVISED -			

TYPICAL PAVEMENT MARKINGS

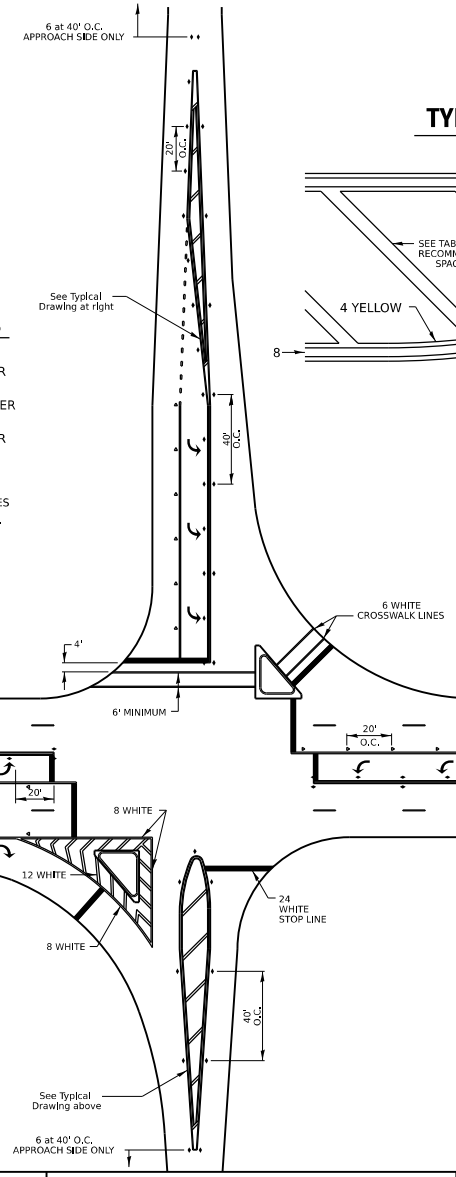
ARROW LAYOUT



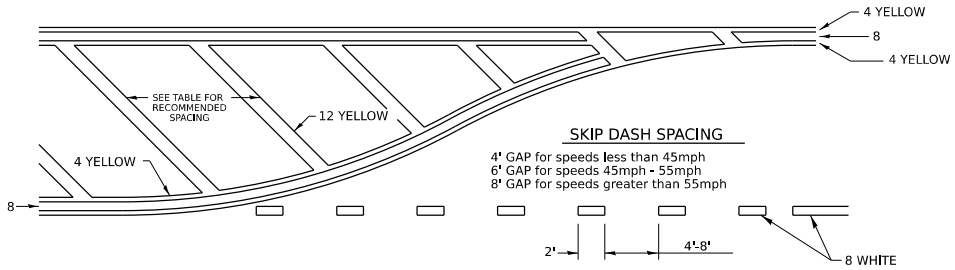
SYMBOLS

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER
- TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



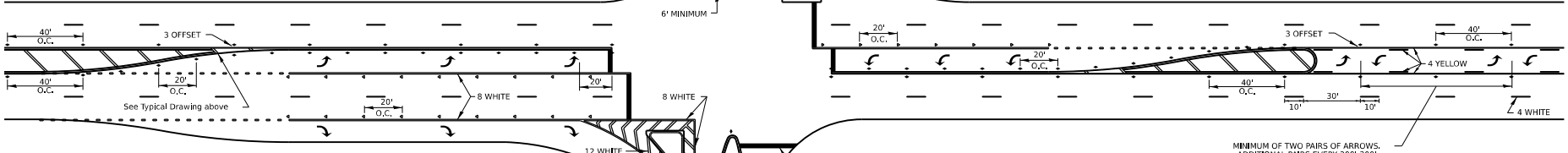
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

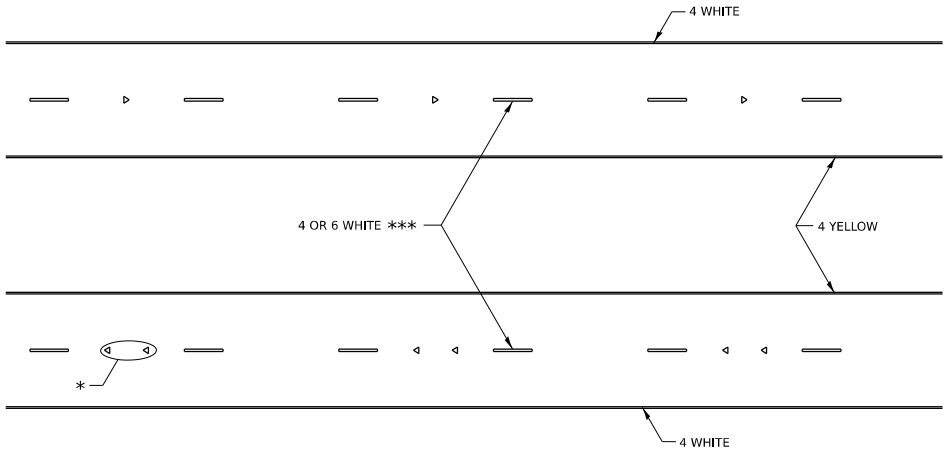
NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 3-05-12						
	CHECKED -	REVISED -					CONTRACT NO.	
PLOT DATE = 4/17/2025	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT	

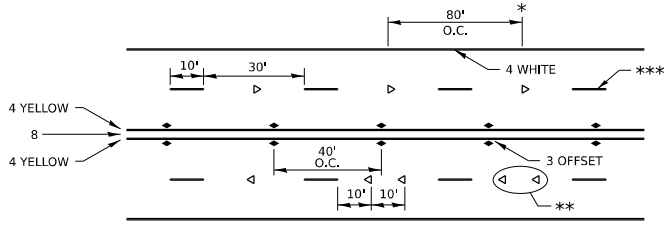
MODEL: 41p1 sheet2
FILE NAME: DISTRICT 2 STANDARD

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI–LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

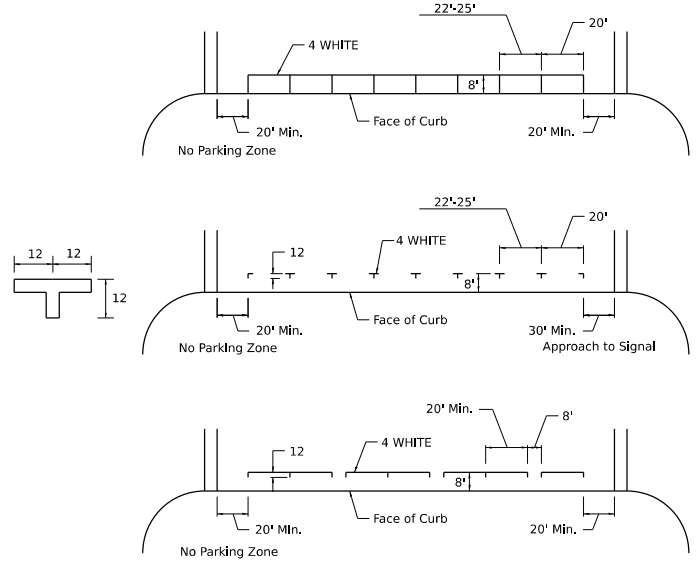
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

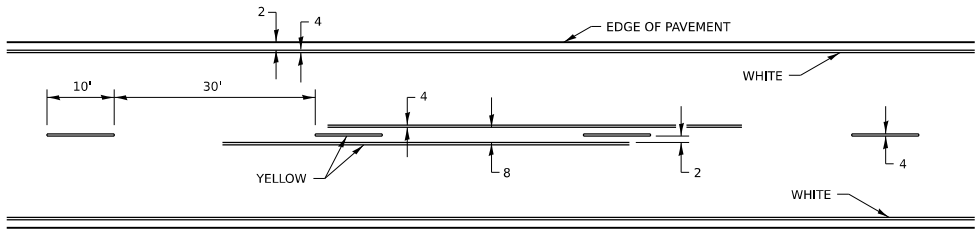
MULTI–LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



MODEL: 41p1 sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 8-27-13
	CHECKED -	REVISED - 11-28-12
PLOT DATE = 4/17/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

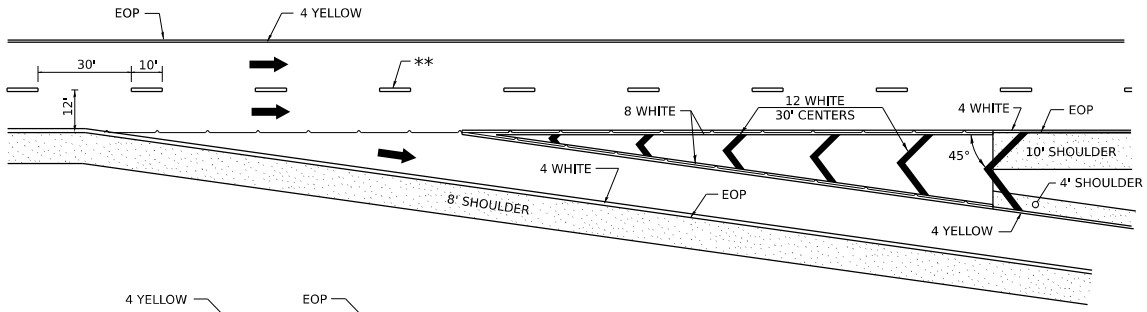
TYPICAL PAVEMENT MARKINGS

** 6" WHITE ON INTERSTATES, WHERE THE SPPED LIMIT IS 65 MPH, OR WHEN DIRECTED BY THE ENGINEER.

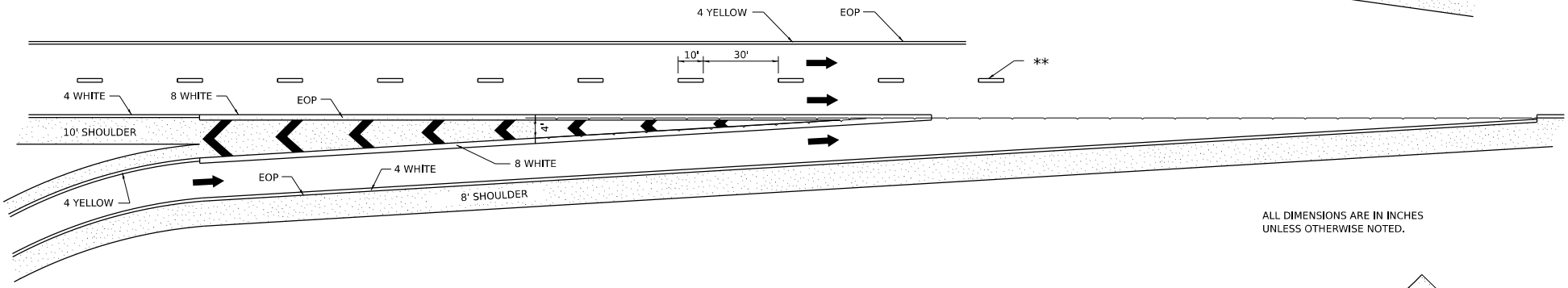
4" WIDE AT ALL OTHER LOCATIONS.

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

EXIT RAMP

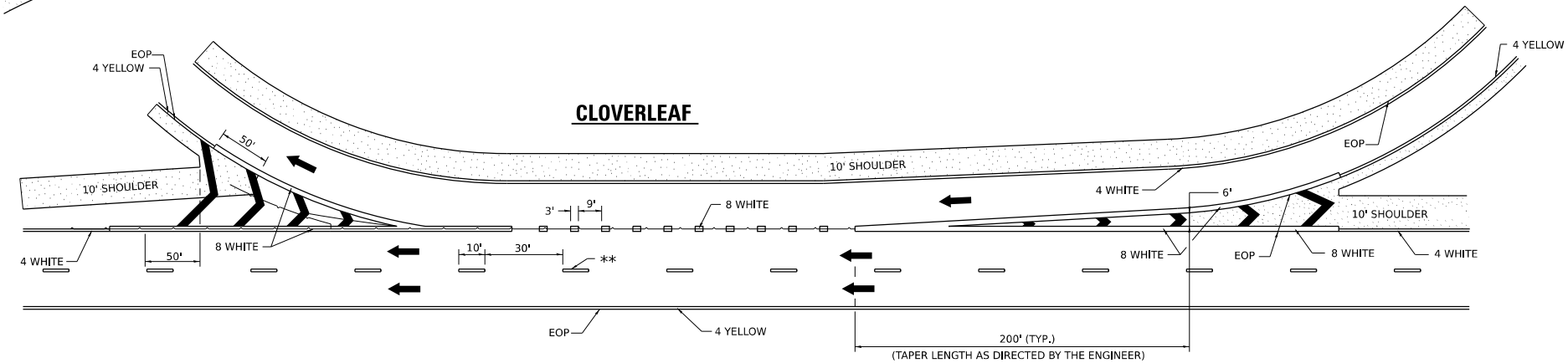


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

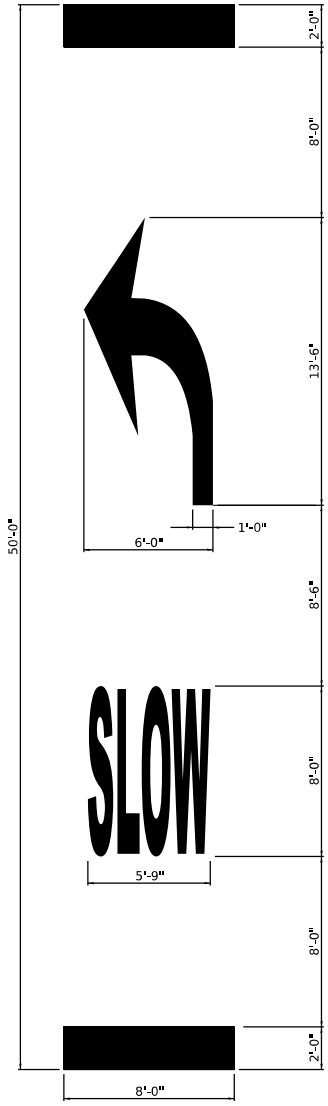
CLOVERLEAF



MODEL: 41p1 sheet4
FILE NAME: DISTRICT 2 STANDARD

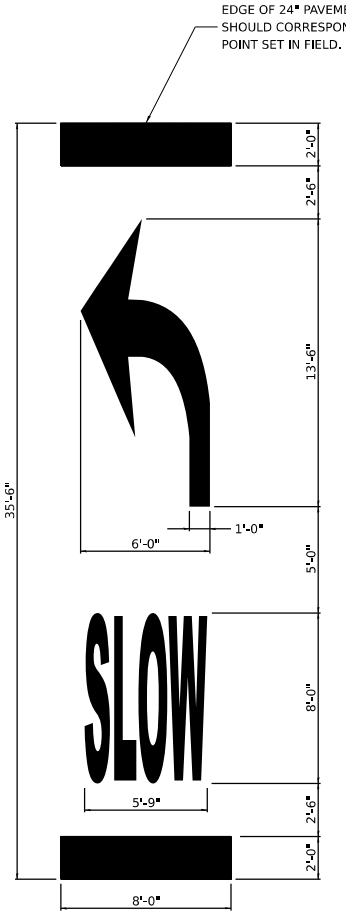
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 9-15-23	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 8-27-13			
	CHECKED -	REVISED - 10-18-11		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

TYPICAL PAVEMENT MARKINGS



SLOW CURVE ARROW
HIGH–SPEED STANDARD MARKING

(POSTED SPEED LIMIT 40 MPH OR GREATER)



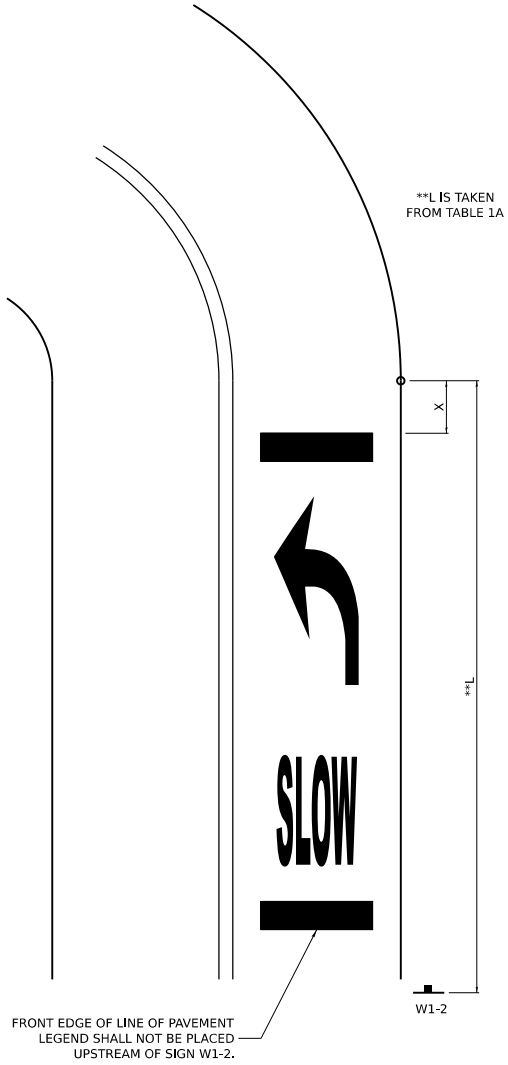
SLOW CURVE ARROW
LOW–SPEED STANDARD MARKING

(POSTED SPEED LIMIT 35 MPH OR LESS)

TABLE 1A

POSTED SPEED	WARNING SPEED (VALUE OF X (FT.))							
	20	25	30	35	40	45	50	55
20 *	100							
25 *	100	100						
30 *	100	100	100					
35 *	100	100	100	100				
40 *	100	100	100	100	100			
45 *	125	110	100	100	100	100		
50 *	225	200	175	135	100	100	100	
55 *	300	275	250	200	175	135	100	100

* NOTE: ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS, USE THE 35'-6" PAVEMENT MARKING LEGEND AS SHOWN IN THE SLOW CURVE ARROW, LOW-SPEED STANDARD MARKING. ON ALL OTHER ROADWAYS, USE THE 50'-0" PAVEMENT MARKING LEGEND AS SHOWN ON THE SLOW CURVE ARROW, HIGH-SPEED STANDARD MARKING.



TYPICAL LAYOUT AND PLACEMENT OF
SUPPLEMENTAL CURVE PLACEMENT MARKING

MODEL: 41st1_sheet5
FILE NAME: DISTRICT 2 STANDARD

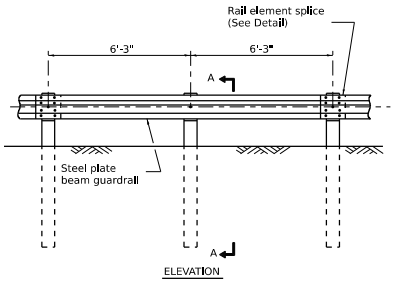
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 4-17-25	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET 50 OF SHEETS | STA. | TO STA.

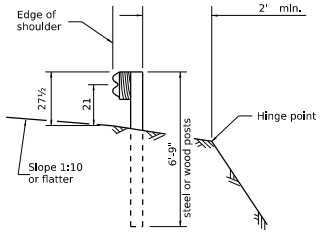
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

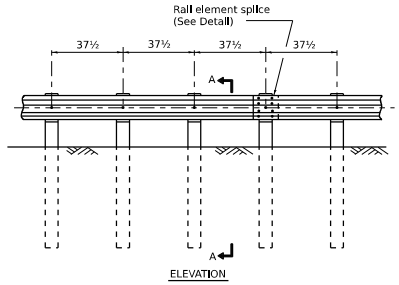


TYPE A

6'-3" Typical post spacing

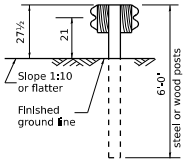


SECTION A-A

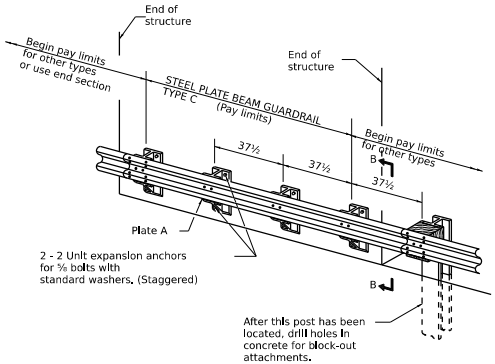


TYPE B

37½ Closed post spacing

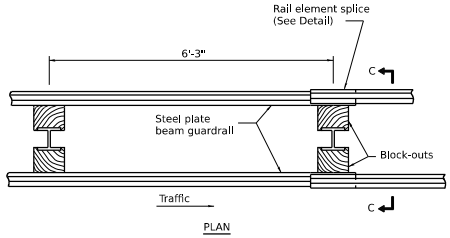


SECTION C-C



TYPE C

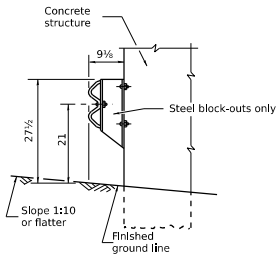
37½ Block-out spacing



PLAN

TYPE D

Double steel plate beam guardrail
6'-3" typical post spacing



SECTION B-B

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches unless otherwise shown.

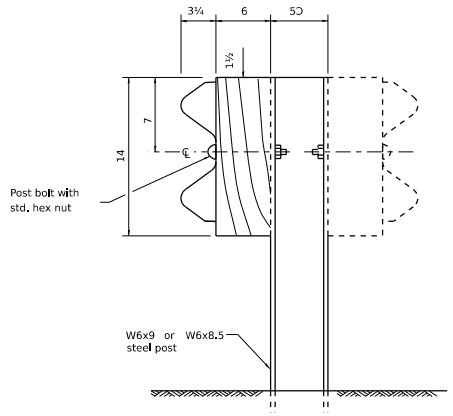
The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.

This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

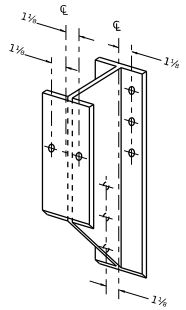
MODEL: 53d1 sheet1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 10-18-11			
	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

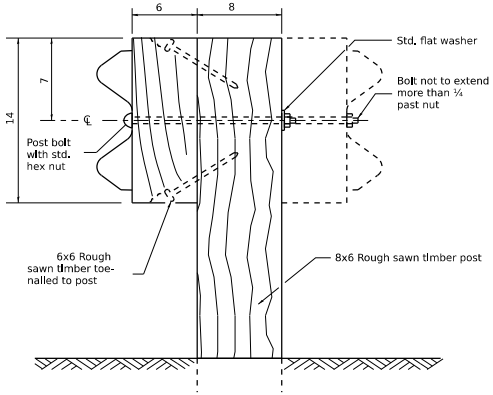
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL



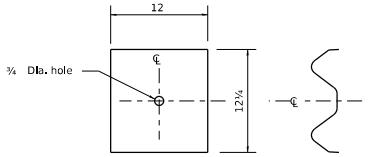
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



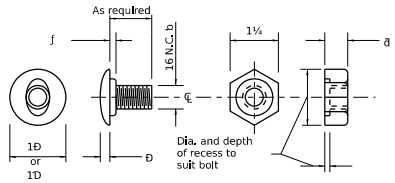
WOOD POST CONSTRUCTION



NOTE

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

PLATE A

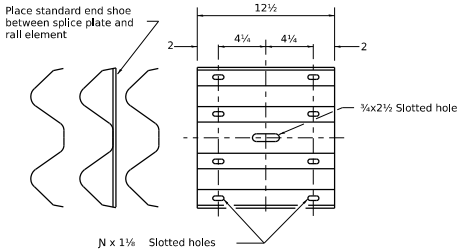


POST OR SPLICE BOLT & NUT

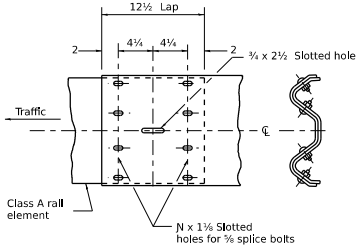
MODEL: 53p1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 10-18-11			
	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

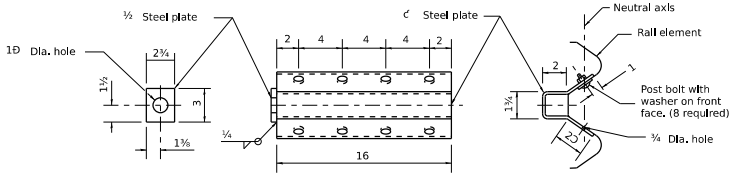
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL



SPLICE PLATE



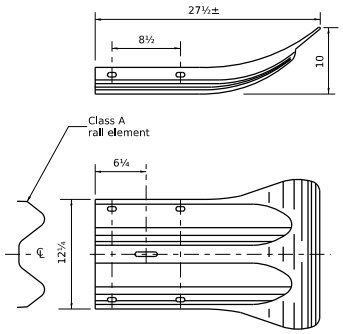
RAIL ELEMENT SPLICE



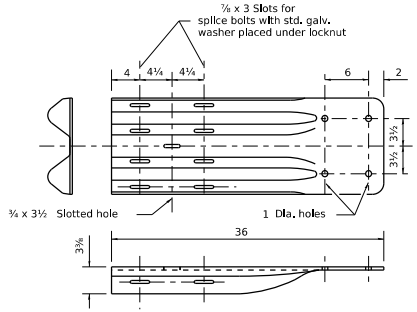
NOTE

Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION



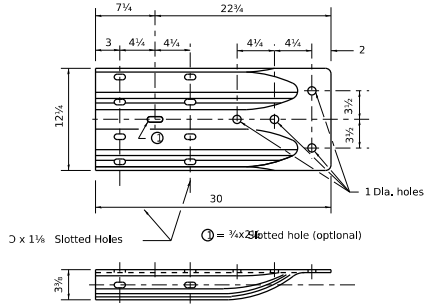
NOTE

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

END SHOE

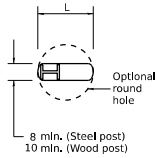


ALTERNATE END SHOE

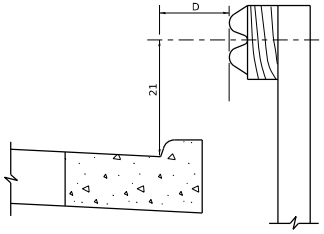
MODEL: 53d1 sheet3
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 10-18-11			
	CHECKED -	REVISED -		SCALE: / SHEET / OF / SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -			ILLINOIS / FED. AID PROJECT

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL



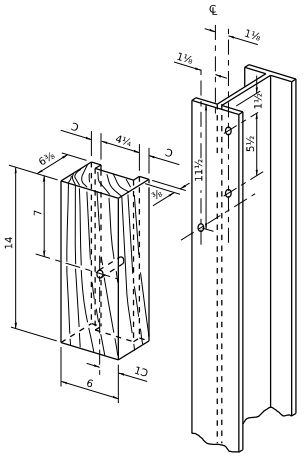
PLAN



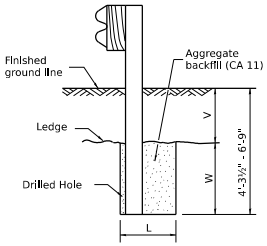
Note:
If it is necessary for D to be more than and less than 10'-0" (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

(D – O desirable to maximum)



WOOD BLOCK-OUT AND STEEL POST DETAILS

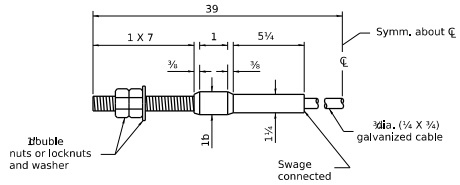


Note:
Ledge line is top of rock ledge or hard slag fill.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	W	L	
		Steel Post	Wood Post
0 - 18	24	21	23
>18 - 41.5	12	8	10
>41.5 - 53.5	12 - 0	8	10



CABLE ASSEMBLY

(40,000 lbs. min. breaking strength)
Tighten to taut tension.

MODEL: 53d1 sheet4
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16
	DRAWN -	REVISED - 10-18-11
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

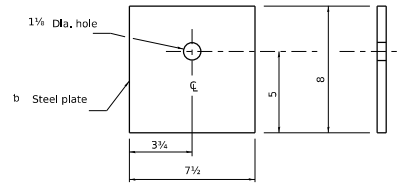
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

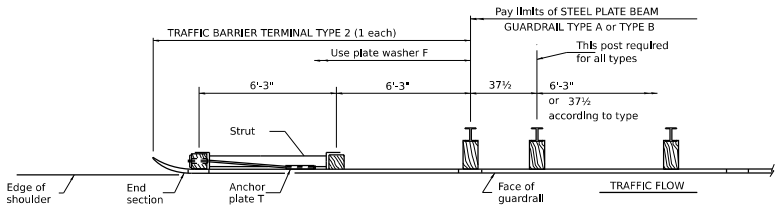
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

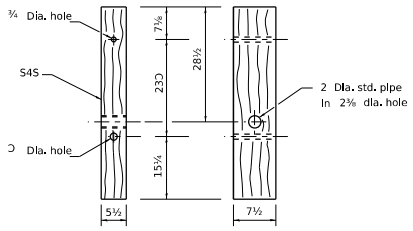
TRAFFIC BARRIER TERMINAL, TYPE 2 (27" HEIGHT)



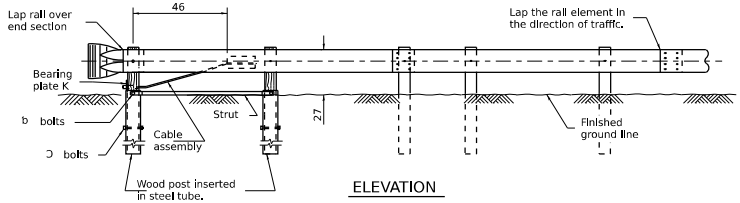
BEARING PLATE K



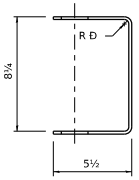
PLAN



WOOD POST

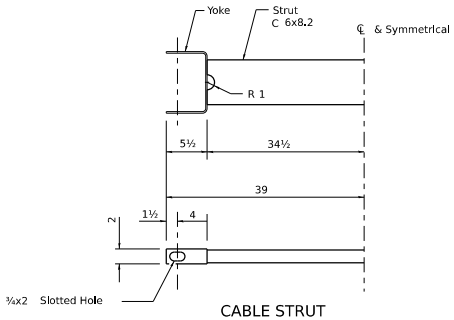


ELEVATION

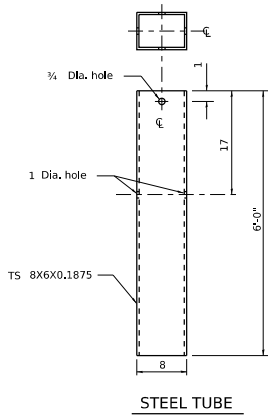


YOKE

℄ thick steel



CABLE STRUT



STEEL TUBE

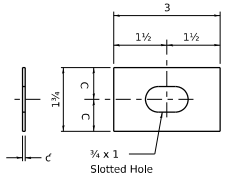


PLATE WASHER F

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

All dimensions are in inches unless otherwise shown.

MODEL: 54st1
FILE NAME: DISTRICT 2 STANDARD

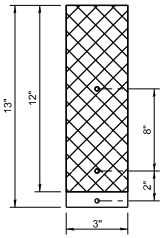
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			
	CHECKED -	REVISED -			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

REFLECTORS (SPECIAL)

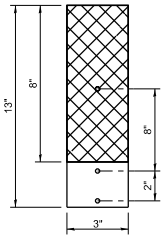
DELINEATOR REPLACEMENT

REFLECTORS FOR GUARDRAIL BLOCK OUT OR DELINEATOR POST

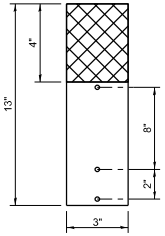
③ REPLACING 3 BUTTON DELINEATOR



② REPLACING 2 BUTTON DELINEATOR



① STRAIGHT REFLECTOR / DELINEATOR



SIDE VIEW

NOTE:

REFLECTOR REPLACEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH INCLUDES ALL MOUNTING HARDWARE OUTLINED IN SECTION 635 OF THE SPEC BOOK.

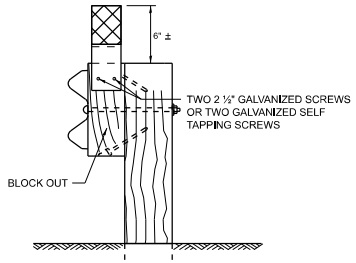
DELINEATOR INSTALLATION (REFLECTOR AND POST) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS (SPECIAL), WHICH INCLUDES ALL MOUTNING HARDWARE OUTLINED IN SECTION 635 OF THE SPEC BOOK.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER OR IN THE MEDIAN SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE YELLOW.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ON THE OUTSIDE OF THE ROADWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

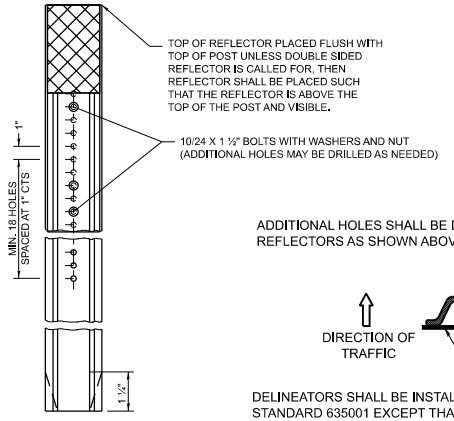


MOUNTED ON A GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO BLOCK OUTS.

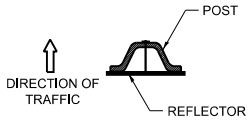
REFLECTORS MOUNTED ON WOODEN OR PLASTIC OR METAL BLOCK OUT SHALL BE MOUNTED USING TWO 2 ½" GALVANIZED SCREWS WITH WASHERS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS

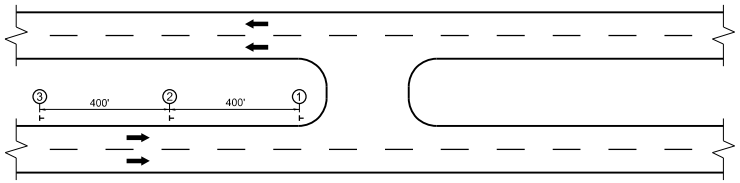


MOUNTED ON A DELINEATOR POST

ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.

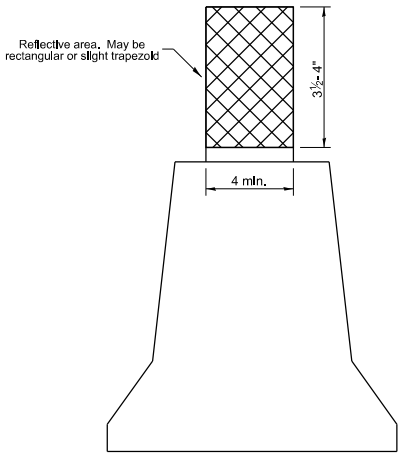


DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHECD AS SHOWN ABOVE.

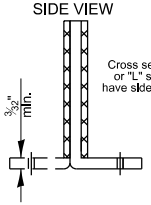


REFLECTORS MOUNTED ON BARRIER WALL

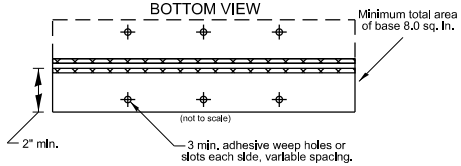
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR BARRIER WALL REFLECTORS (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER SHALL BE DOUBLE SIDE AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ALONG THE OUSTIDE OF THE HIGHWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

LEGEND

OR = DELINEATOR

= REFLECTIVE AREA

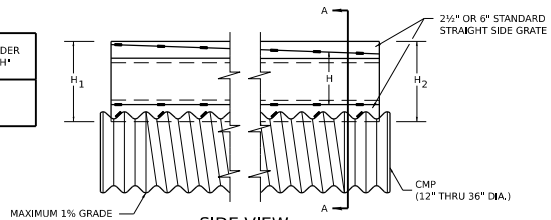
MODEL: 55d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 3-07-25	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 3-07-24			
	CHECKED -	REVISED - 4-27-23			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 6-21-21		SCALE: / SHEET / OF / SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

SLOTTED DRAIN PIPE

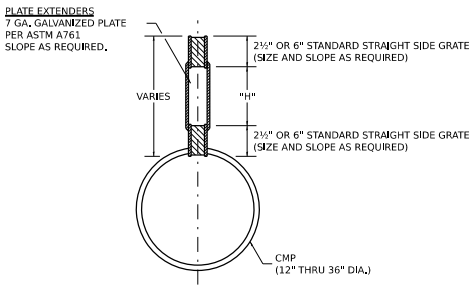
LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 * 750 PSI CONCRETE	19"

* 125 PSI TIRE PRESSURE

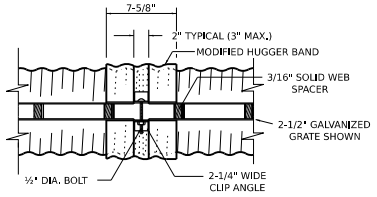


SIDE VIEW

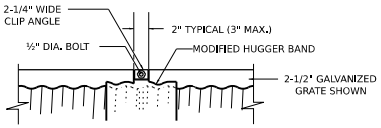
DETAIL WITH VARIABLE HEIGHT GRATE



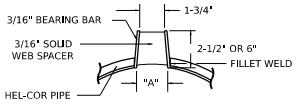
SECTION A-A



TOP VIEW

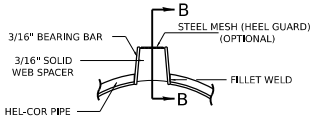


SIDE VIEW



SECTION A-A

STANDARD DETAIL



SECTION A-A

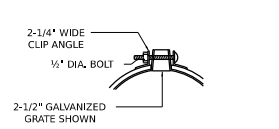
DETAIL WITH MESH

(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

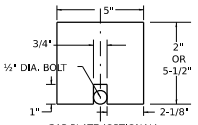
STANDARD SIZES						
GAGE OF PIPE	DIAMETER OF PIPE					
	12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X
14	X	X	X	X	X	X
12	N.A.	N.A.	N.A.	N.A.	X	X

GRATE TYPE		'A'
VERT	2-1/2"	1-3/4"
VERT	6"	1-3/4"
TRAP	2-1/2"	2-1/4"
TRAP	6"	3"

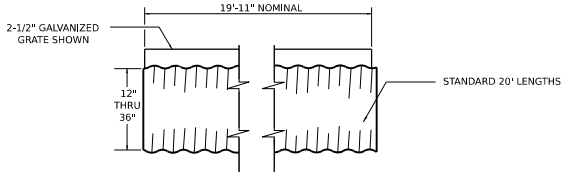
VERT = VERTICAL
TRAP = TRAPIZOIDAL



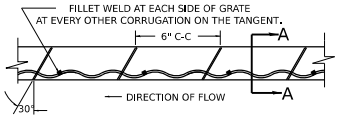
END VIEW



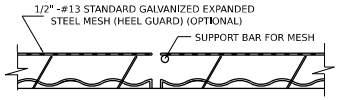
GAP PLATE (OPTIONAL)
MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING.



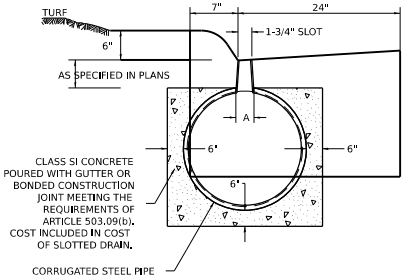
TYPICAL PIPE SECTION



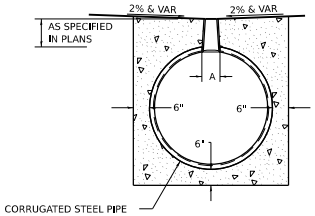
GRATE WELDING DETAIL



SECTION B-B



DETAIL FOR CURB & GUTTER



DETAIL FOR CROSSOVERS, DRIVEWAYS, OR PARKING LOTS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

GENERAL

Class SI Concrete shall be used throughout.
This specification covers Slottted Drain used for the removal of water as shown on the plans.
The Slotted Drain shall be Corrugated Pipe Culvert with Integral Slotted Drains.
Before placing the concrete adjacent to the pipe, the slot shall be covered by either thin, flat metal sheeting or by a board notched to fit over the grate bars. This covering must fit closely in the slot to prevent entry of concrete into the pipe. Paving over the slotted drain will then be one continuous operation over the protected drain. The protection for the drain slot shall then be removed. The pipe shall drain into the side of the inlet. The opening where the slot is removed shall be covered to prevent concrete from entering the pipe.
The Corrugated Steel Pipe used in the Slotted Drain shall meet the requirements of AASHTO M36/ASTM A760.
The CMP shall be ALUMINIZED STEEL Type 2.
The diameter shall be as shown on the plans.
Steel grating shall meet the galvanizing requirements of AASHTO M111.
This work will be paid for at the contract unit price per foot for SLOTTED DRAIN of the pipe diameter specified WITH VARIABLE SLOT,or SLOTTED DRAIN, of the pipe diameter specified, WITH 6" SLOT, and shall include concrete and grating for depth specified on plans.
Use approved end cap to prevent concrete entry into the pipe during gutter construction on the upstream end of the pipe.

CONNECTIONS

The Corrugated Steel Pipe shall have a minimum of two rerolled annular ends.
The Slotted Drain bands shall be modified HUGGER Bands to secure the pipe and prevent infiltration of the backfill.
When the Slotted Drain is banded together, the adjacent grates shall have a maximum 3' gap.

GRATES

The grates shall be manufactured from ASTM A670, Grade 36 steel. The spacers and bearing bars (sides) shall be 3/16 " material ±0.008'.
The spacers shall be on 6" centers and welded on both sides to each bearing bar (sides) with four (4) 1- 1/4 " long 3/16 ' fillet welds on each side of the bearing bar.
The plate extender shall be 7 gage steel meeting ASTM A761.
The engineer may call for tensile strength tests on the grate If the grate is not in compliance with the above spacer specifications. If tensile strength tests are called for, minimum results for an in-place spacer pulled perpendicular to the bearing bar shall be:
T= 12,000 pounds for 2- 1/2 ' grate
T= 15,000 pounds for 6' grate

GALVANIZING

The grate and plate extenders shall be galvanized in accordance with ASTM A123 except with a 2 oz. galvanized coating.

GRATE ATTACHED TO CSP

The grate shall be fillet welded with a minimum weld 1" long to the CSP on each side of the grate at every other corrugation.

TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTHS

Vertical Bow= ± 3/8 "
Horizontal Bow= ± 5/8 '
Twist= ± 1/2 "

SLOTTED DRAIN NOTES

1. GRATING IS AVAILABLE IN DEPTHS OF 2-1/2' AND 6".
2. VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
3. FOR 6" VERTICAL & TRAPIZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
5. DIMENSIONS FOR H_1 AND H_2 AS REQUIRED.
6. H_1 AND H_2 MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.

MODEL: 68p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 1-05-16
	DRAWN -	REVISED - 6-27-14
	CHECKED -	REVISED - 10-18-11
PLOT DATE = 4/17/2025	DATE -	REVISED -

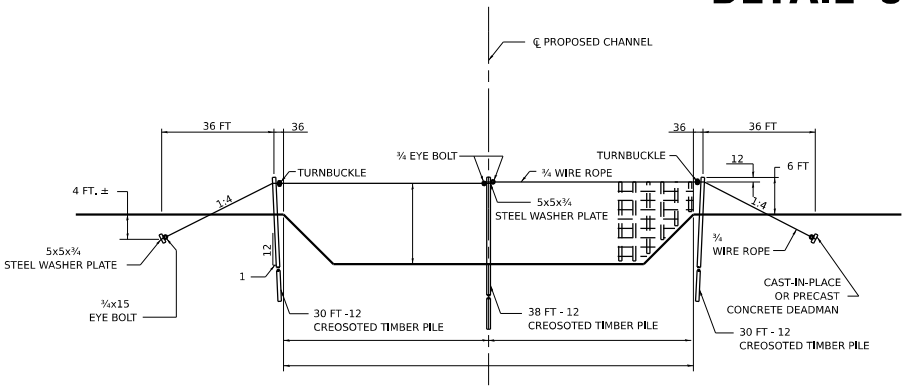
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

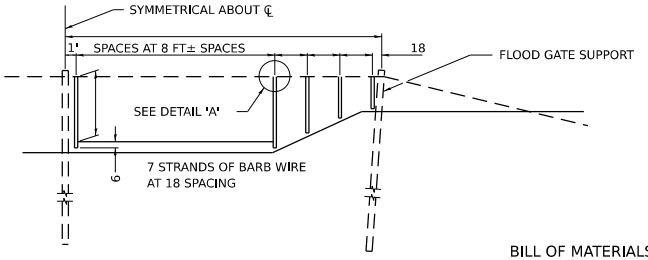
REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

DETAIL OF FLOOD GATE

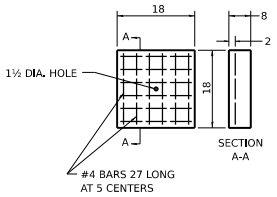




NOTE:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR

BILL OF MATERIALS

QUANTITY	UNIT	ITEM
	FT	2 x 4 TREATED LUMBER
	FT	GALVANIZED BARBED WIRE
	FT	SPECIAL STEEL CHANNEL SC 25, 2½ x 2½
	EACH	⅜ x 3 GALVANIZED STEEL BOLTS AND WASHERS
	EACH	⅜ x 2 GALVANIZED STEEL U-BOLTS
	EACH	GALVANIZED CABLE CLAMPS
	LBS	GALVANIZED FENCE STAPLES

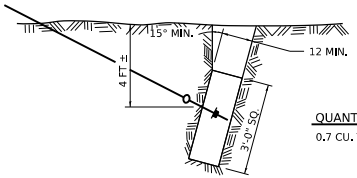


QUANTITIES FOR 2 DEADMEN
0.3 CU.YD CLASS SI CONCRETE
36 LBS REINFORCEMENT BARS

DETAIL OF PRECAST CONCRETE DEADMAN

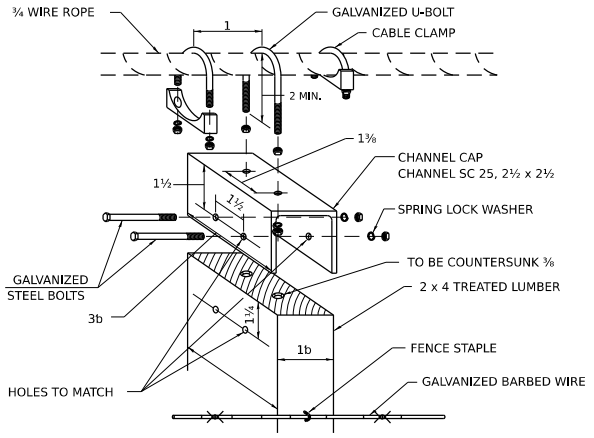
BILL OF MATERIALS

QUAN.	UNIT	ITEM
	FT	¾ DIA. GALVANIZED WIRE ROPE
	EACH	¾ DIA. x 15 GALVANIZED EYE BOLTS WITH NUTS AND WASHERS
	EACH	¾ DIA. GALVANIZED TURNBUCKLES
	EACH	¾ DIA. GALVANIZED CABLE CLAMPS
	EACH	5x5x¾ STEEL WASHER PLATES
	EACH	PRECAST CONCRETE DEADMEN OR CAST-IN-PLACE CONCRETE DEADMEN
	FT	12 CREOSOTED TIMBER PILE (INCLUDES FURNISHING AND DRIVING TIMBER PILE)



QUANTITIES FOR 2 DEADMEN
0.7 CU. YD. CLASS SI CONCRETE

DETAIL OF CAST-IN-PLACE CONCRETE DEADMAN



DETIAL 'A'
EXPLODED VIEW OF FLOOD GATE TO CABLE

NOTE:
PRECAST CONCRETE DEADMEN AND CAST-IN-PLACE CONCRETE DEADMEN SHALL BE CONSTRUCTED OF CLASS SI CONCRETE

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 71pt1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 8-09-12	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 4/17/2025	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

40' SINGLE LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

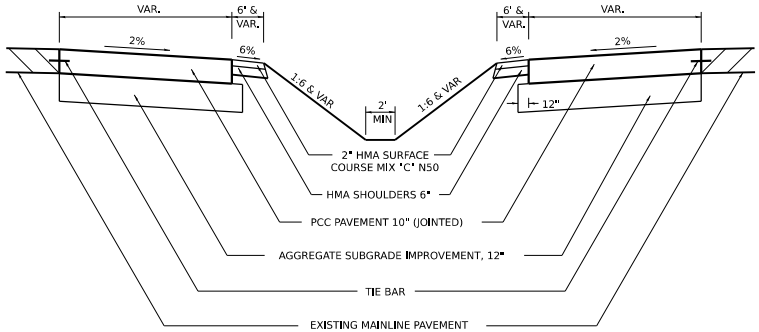
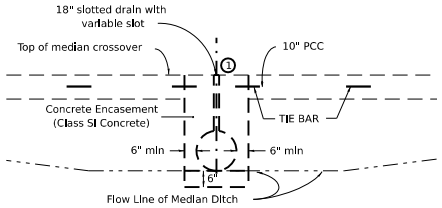
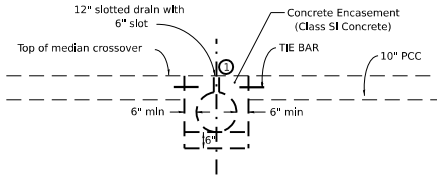


TABLE OF OFFSETS AND DROPS						
Distance feet from location station	0	60' (B)	75'	100'	125'	143.73' (C)
Offsets feet from inside edge of pavement	20' (A)	18'	15.32'	11.37'	8.06'	6.00'
Drop feet from inside edge of pavement	0.0'	0.0'	0.0'	0.0'	0.0'	0.0'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(1340.88 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1250.80 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(45.1 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(402.52 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

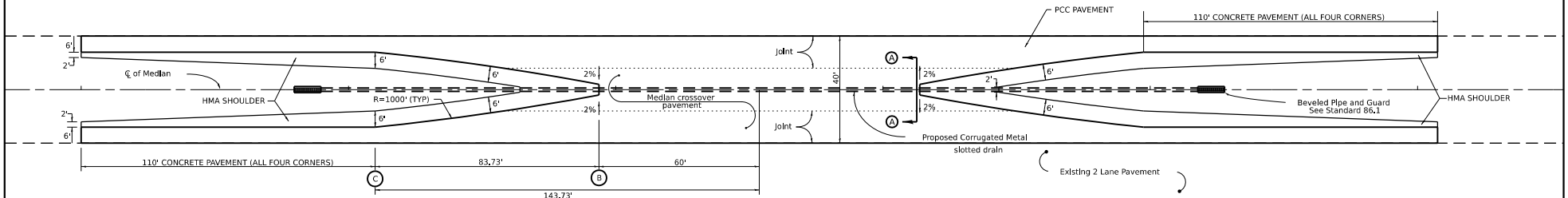
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (Jointed) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (Jointed).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 72p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	2-26-19
	DRAWN -	REVISED -	1-05-16
	CHECKED -	REVISED -	8-27-13
PLOT DATE = 4/17/2025	DATE -	REVISED -	12-07-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

50' SINGLE LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

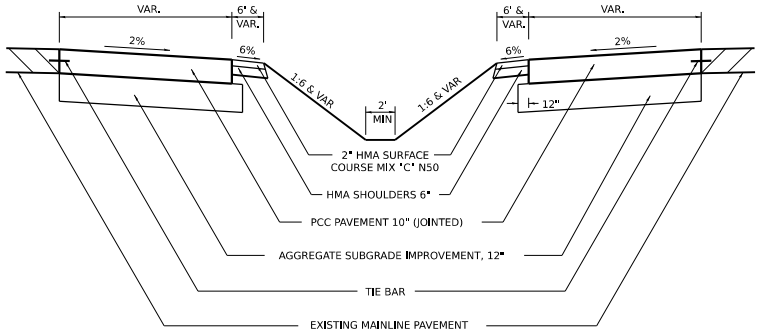
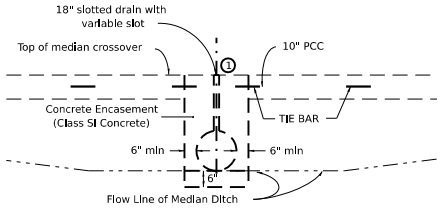
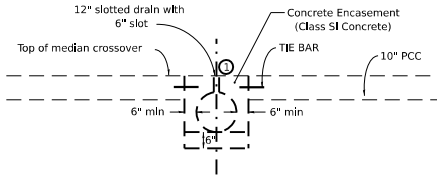


TABLE OF OFFSETS AND DROPS							
Distance feet from location station	0'	53' (B)	75'	100'	125'	150.00'	161.73' (C)
Offsets feet from inside edge of pavement	25' (E)	23'	18.57'	14.14'	10.37'	7.25'	6.00'
Drop feet from inside edge of pavement	0.5'	0.46'	0.37'	0.28'	0.021'	0.15'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



① Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(1634.94 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1533.52 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(52.9 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(472.79 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

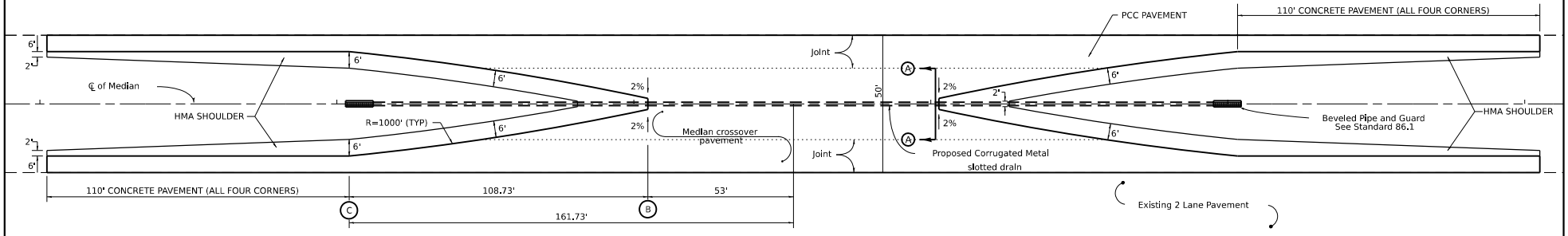
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (Jointed) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (Jointed).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 73d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	2-26-19
	DRAWN -	REVISED -	1-05-16
	CHECKED -	REVISED -	8-27-13
PLOT DATE = 4/17/2025	DATE -	REVISED -	12-07-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

64' SINGLE LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

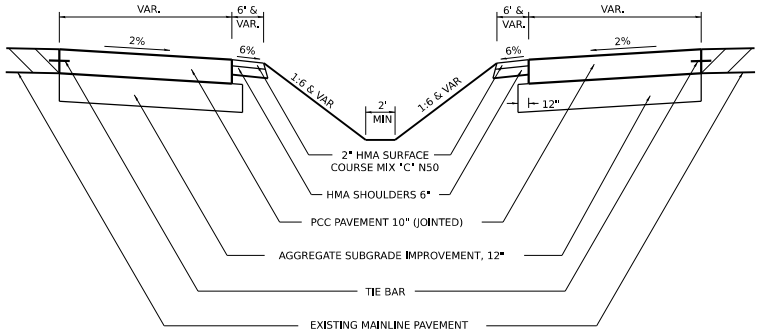
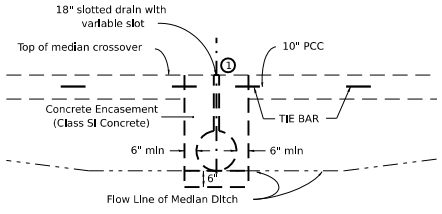
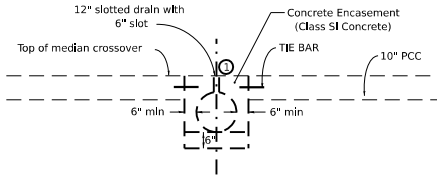


TABLE OF OFFSETS AND DROPS									
Distance feet from location station	0	46' (B)	50'	75'	100'	125'	150'	175'	185.20' (C)
Offsets feet from inside edge of pavement	32' (A)	30'	29.02'	23.32'	18.28'	13.90'	10.17'	7.08'	6'
Drop feet from inside edge of pavement	0.64'	0.6'	0.58'	0.47'	0.37'	0.28'	0.20'	0.14'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2071.96 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1956.64 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(62.5 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(558.24 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

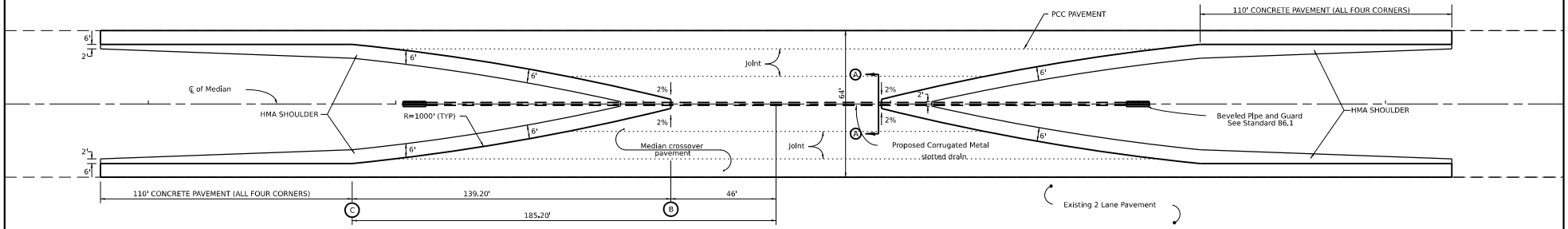
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 74d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 8-27-13			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 12-07-10		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

40' SINGLE LANE MEDIAN CROSSOVER

TYPICAL SECTION (POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

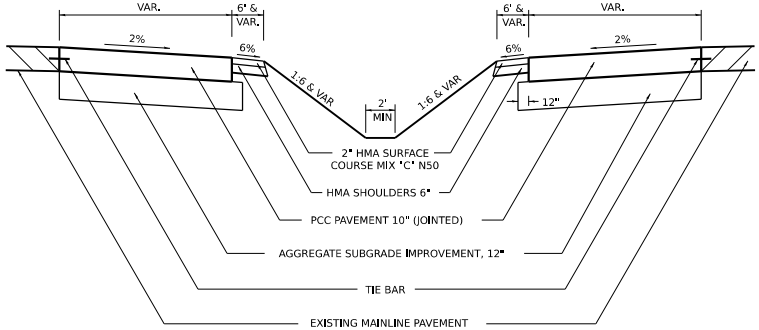
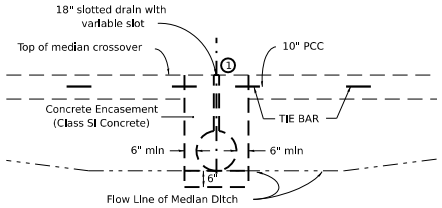
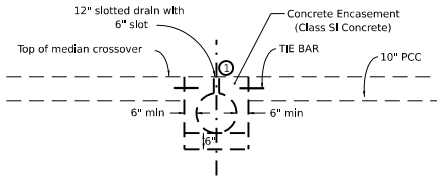


TABLE OF OFFSETS AND DROPS							
Distance feet from location station	0	77' (B)	100'	125'	150'	175'	183.23 (C)
Offsets feet from inside edge of pavement	20' (A)	18'	14.79'	11.69'	8.98'	6.67'	6'
Drop feet from inside edge of pavement	0.4'	0.36'	0.3'	0.23'	0.18'	0.13'	0.12'



SECTION A–A
(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



① Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A
(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(1709.35 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1596.03 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(57.1 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(509.64 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

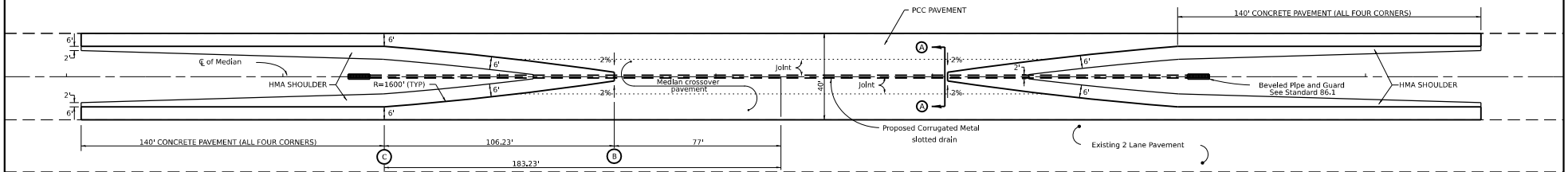
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 75st1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	2-26-19
	DRAWN -	REVISED -	1-05-16
	CHECKED -	REVISED -	6-27-14
PLOT DATE = 4/17/2025	DATE -	REVISED -	8-27-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

50' SINGLE LANE MEDIAN CROSSOVER

TYPICAL SECTION (POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

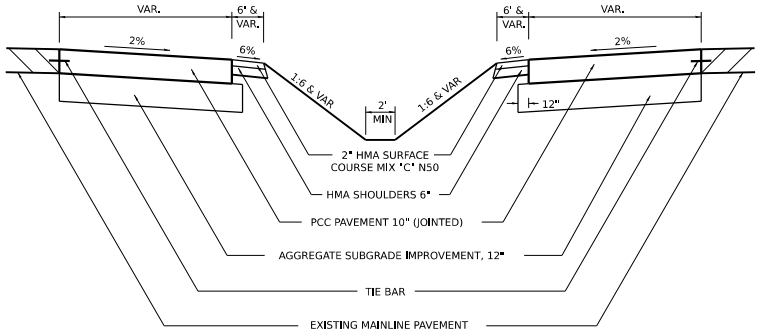
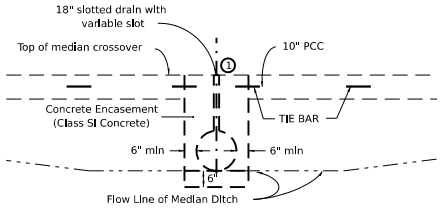
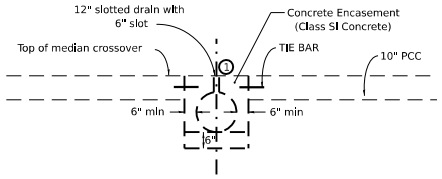


TABLE OF OFFSETS AND DROPS									
Distance feet from location station	0'	68' (B)	75'	100'	125'	150'	175'	200'	206.02' (C)
Offsets feet from inside edge of pavement	25' (A)	23'	21.84'	17.97'	14.50'	11.43'	8.76'	6.49'	6'
Drop feet from inside edge of pavement	0.5'	0.46'	0.44'	0.36'	0.29'	0.23'	0.175'	0.13'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2084.0 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1956.55 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(67.1 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(598.67 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

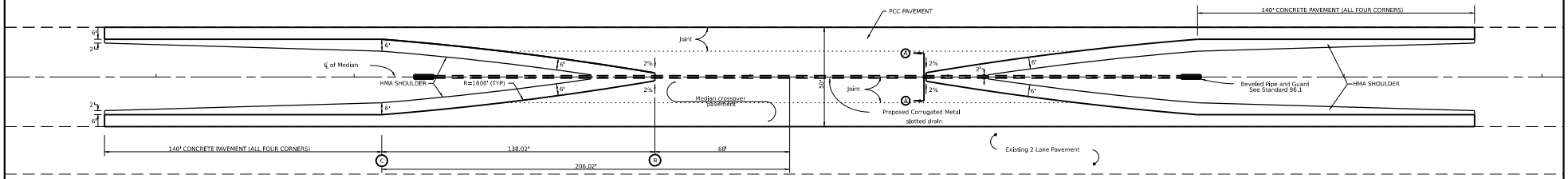
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 76d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	2-26-19
	DRAWN -	REVISED -	1-05-16
	CHECKED -	REVISED -	6-27-14
PLOT DATE = 4/17/2025	DATE -	REVISED -	8-27-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

64' SINGLE LANE MEDIAN CROSSOVER

TYPICAL SECTION (POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

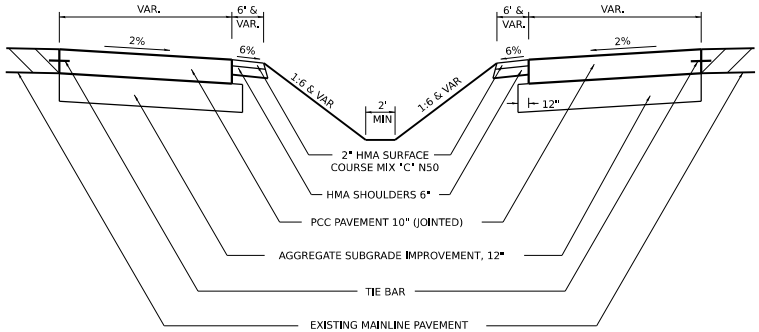
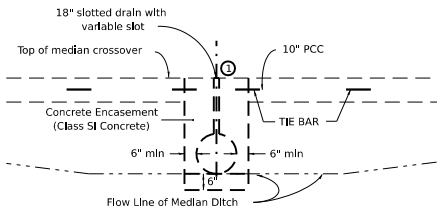
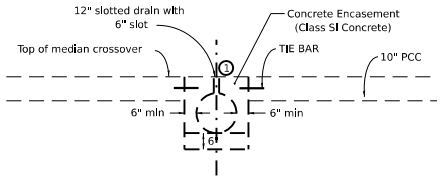


TABLE OF OFFSETS AND DROPS										
Distance feet from location station	0	60' (B)	75'	100'	125'	150'	175'	200'	225'	236.83' (C)
Offsets feet from inside edge of pavement	32' (A)	30'	27.18'	22.80'	18.84'	15.27	12.11	9.35'	6.98	6'
Drop feet from inside edge of pavement	0.64'	0.6'	0.54'	0.456'	0.377'	0.31'	0.24'	0.187'	0.139'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2651.79 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(2509.74 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(79.2 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(707.03 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

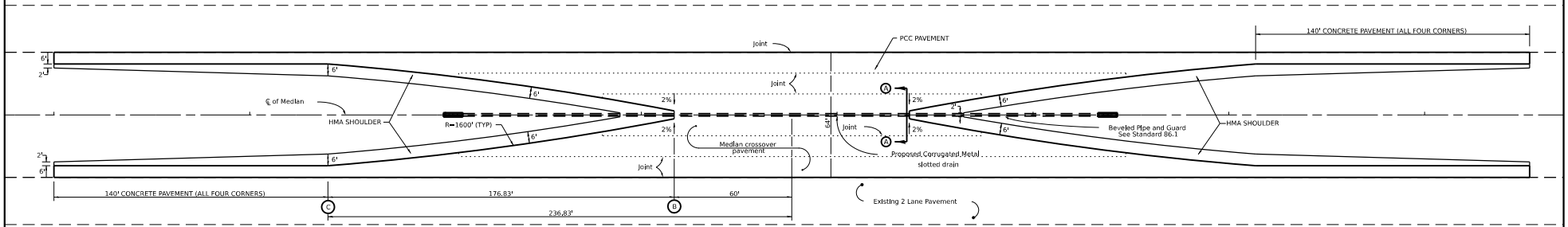
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 6-27-14		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13			ILLINOIS / FED. AID PROJECT

MODEL: 77d1
FILE NAME: DISTRICT 2 STANDARD

88' SINGLE LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

TYPICAL SECTION

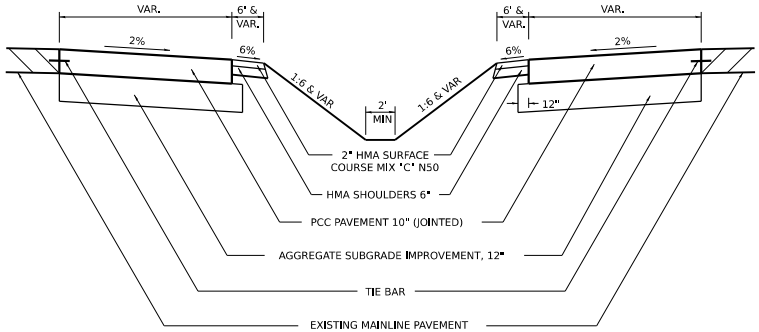
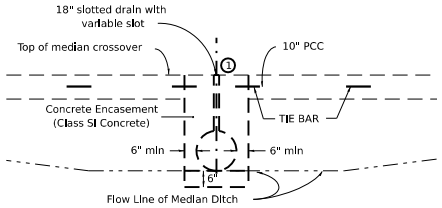
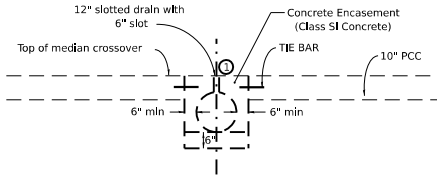


TABLE OF OFFSETS AND DROPS												
Distance feet from location station	0	50' (B)	75'	100'	125'	150'	175'	200'	225'	250'	275'	283.50' (C)
Offsets feet from inside edge of pavement	44' (E)	42'	36.44'	31.30'	26.57'	22.25'	18.34'	14.83'	11.72'	9.01'	6.70'	6'
Drop feet from inside edge of pavement	0.88'	0.84'	0.73'	0.63'	0.53'	0.43'	0.37'	0.30'	0.23'	0.18'	0.13'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(3704.06 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(3535.98 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(96.79 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(864.23 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

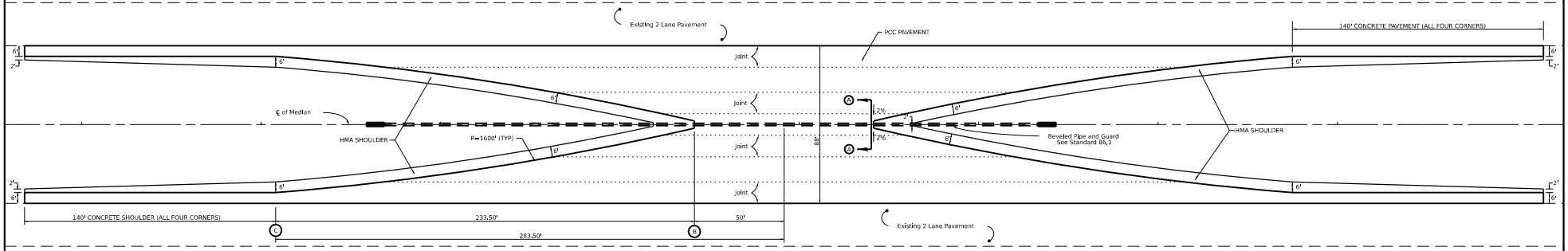
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 78d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 6-27-14			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

40' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

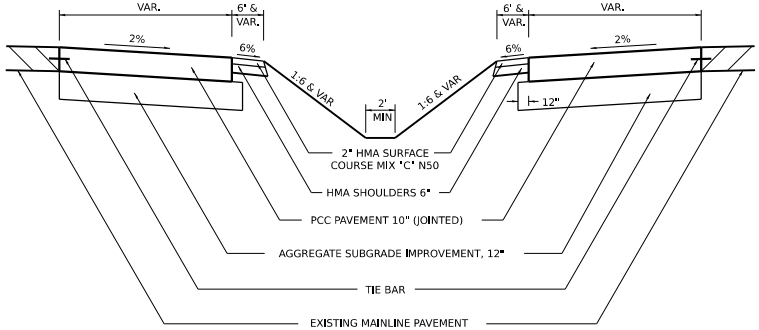
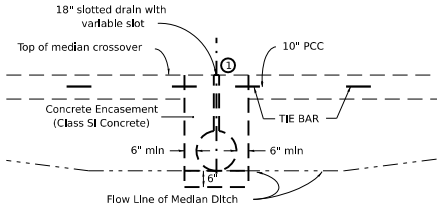
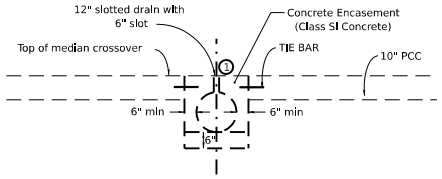


TABLE OF OFFSETS AND DROPS						
Distance feet from location station	0	76.95' (B)	100'	125'	150'	168.69' (C)
Offsets feet from inside edge of pavement	20' (E)	18'	14.22'	10.70'	7.79'	6.00'
Drop feet from inside edge of pavement	0.4'	0.36'	0.28'	0.21'	0.16'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(1685.28 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1572.43 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(57.28 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(511.45 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

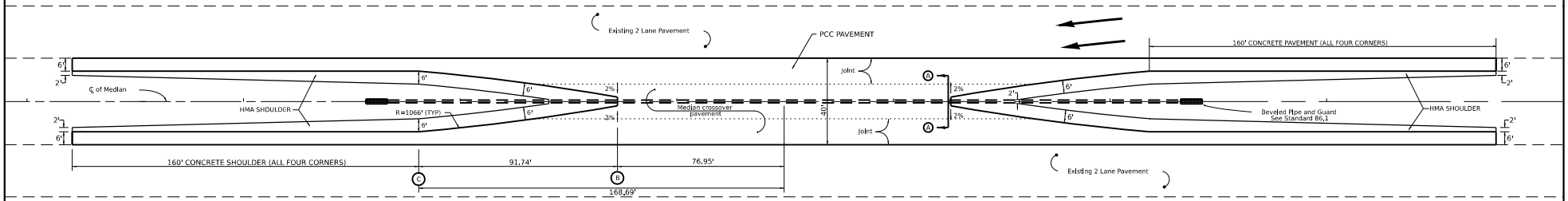
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 79pt1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 8-27-13			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 4-04-11		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

50' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

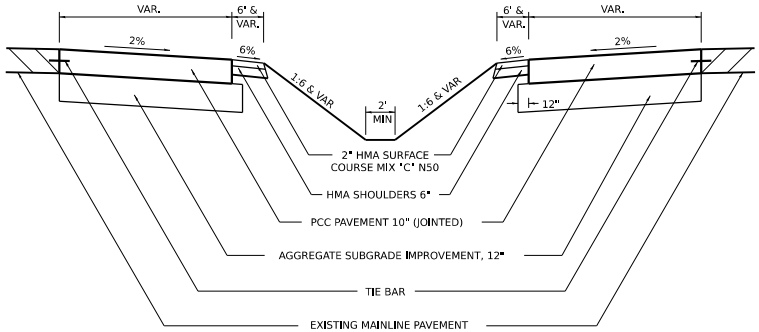
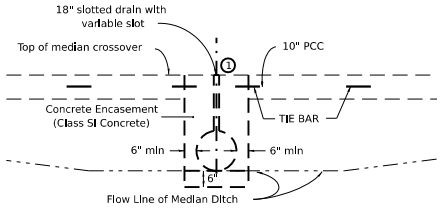
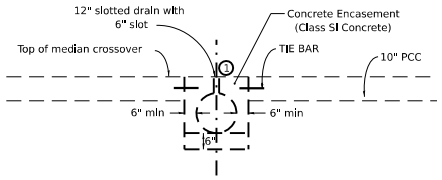


TABLE OF OFFSETS AND DROPS								
Distance feet from location station	0	69.72' (B)	75'	100'	125'	150'	175'	188.01' (C)
Offsets feet from inside edge of pavement	25' (A)	23'	21.95'	17.35'	13.37'	9.99'	7.21'	6.00'
Drop feet from inside edge of pavement	0.5'	0.46'	0.44'	0.35'	0.27'	0.20'	0.14'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2029.23 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(1904.29 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(65.64 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(586.07 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

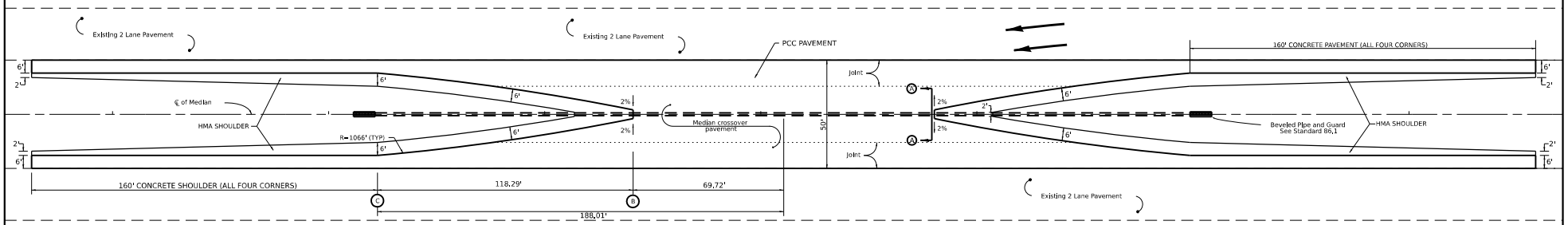
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 80p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 8-27-13			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 4-04-11		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

64' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

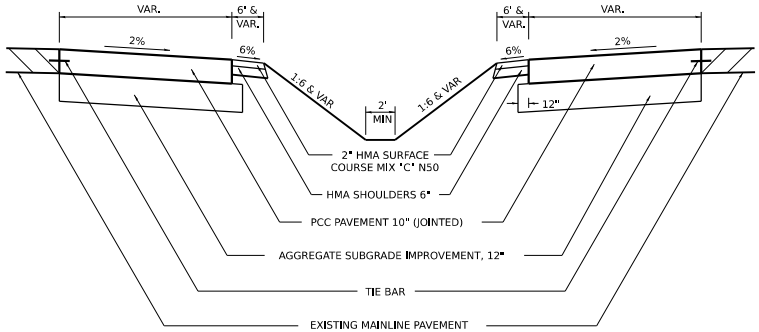
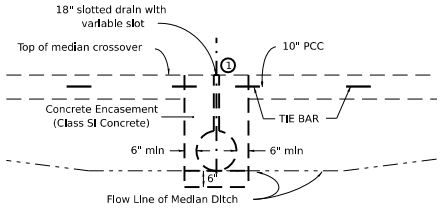
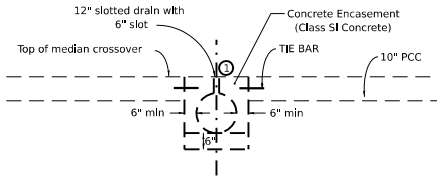


TABLE OF OFFSETS AND DROPS									
Distance feet from location station	0	62.41' (B)	75'	100'	125'	150'	175'	200'	212.87' (C)
Offsets feet from inside edge of pavement	32' (A)	30'	27.14'	21.92'	17.33'	13.35'	9.97'	7.20'	6.00'
Drop feet from inside edge of pavement	0.64'	0.60'	0.54'	0.44'	0.35'	0.27'	0.20'	0.14'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2534.76 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(2394.89 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(75.73 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(676.15 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

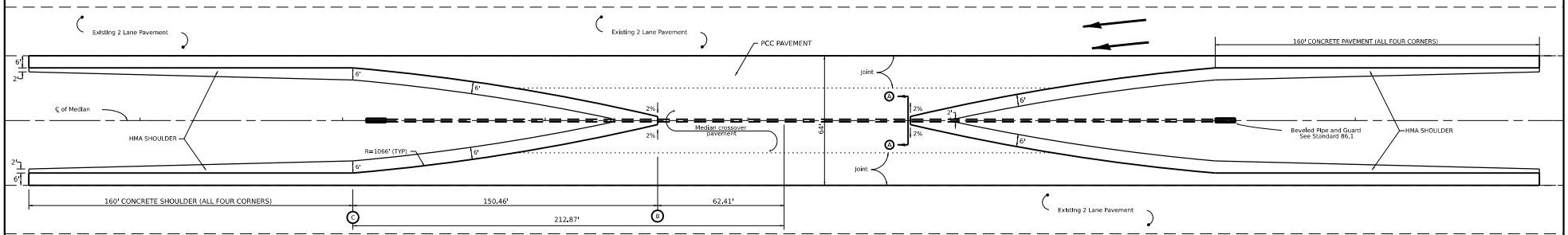
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 81pt1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	2-26-19
	DRAWN -	REVISED -	1-05-16
	CHECKED -	REVISED -	8-27-13
PLOT DATE = 4/17/2025	DATE -	REVISED -	4-04-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

40' TWO LANE MEDIAN CROSSOVER

TYPICAL SECTION (POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

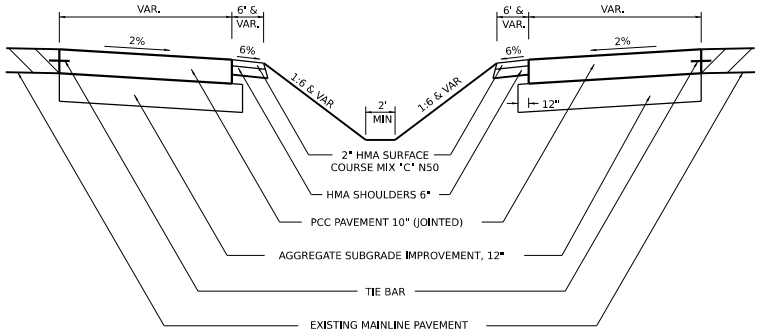
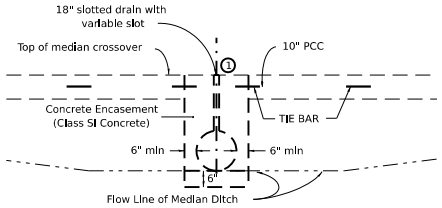
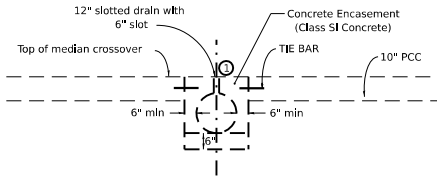


TABLE OF OFFSETS AND DROPS							
Distance feet from location station	0	100.33' (B)	125'	150'	175'	200'	220.57' (C)
Offsets feet from inside edge of pavement	20' (A)	18'	14.88'	12.07'	9.60'	7.48'	6.00'
Drop feet from inside edge of pavement	0.40'	0.36'	0.30'	0.24'	0.19'	0.15'	0.12'



SECTION A–A
(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



(1) Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A
(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2142.56 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(2003.87 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(71.01 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(634.04 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

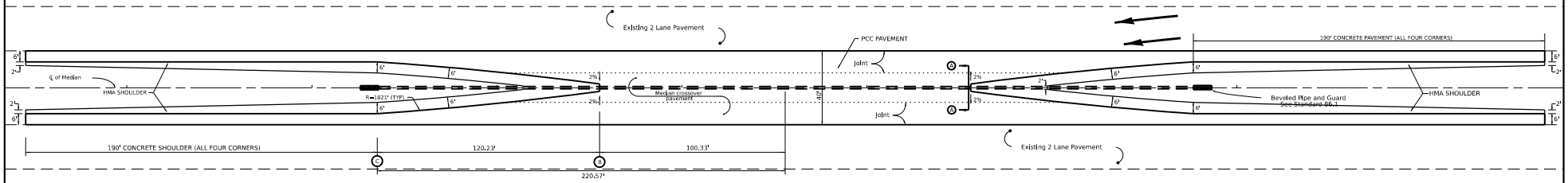
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6'from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 82p1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 6-27-14			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

50' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

TYPICAL SECTION

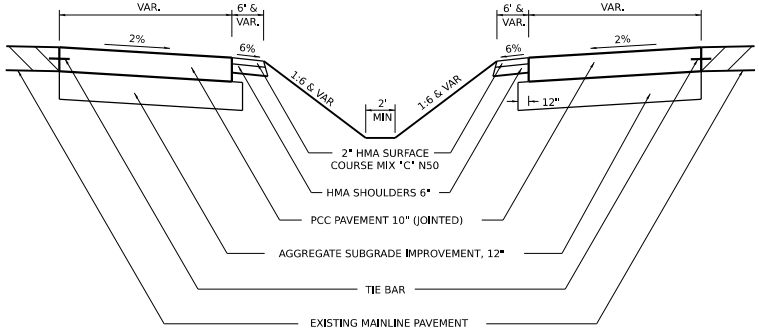
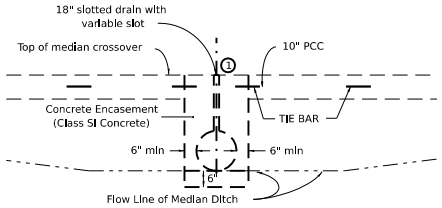
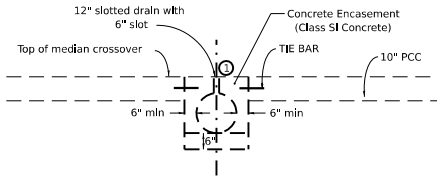


TABLE OF OFFSETS AND DROPS									
Distance feet from location station	0	90.88' (B)	100'	125'	150'	175'	200'	225'	246' (C)
Offsets feet from inside edge of pavement	25' (A)	23'	21.63'	18.10'	14.93'	12.11'	9.64'	7.52'	6.00'
Drop feet from inside edge of pavement	0.50'	0.46'	0.43'	0.36'	0.30'	0.24'	0.19'	0.15'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



① Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(2593.23 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(2438.79 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(81.92 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(731.46 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

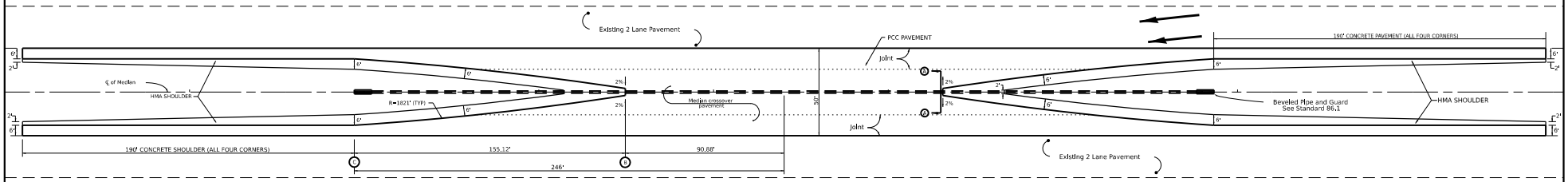
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 83d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED -	2-26-19
	DRAWN -	REVISED -	1-05-16
	CHECKED -	REVISED -	6-27-14
PLOT DATE = 4/17/2025	DATE -	REVISED -	8-27-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

64' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

TYPICAL SECTION

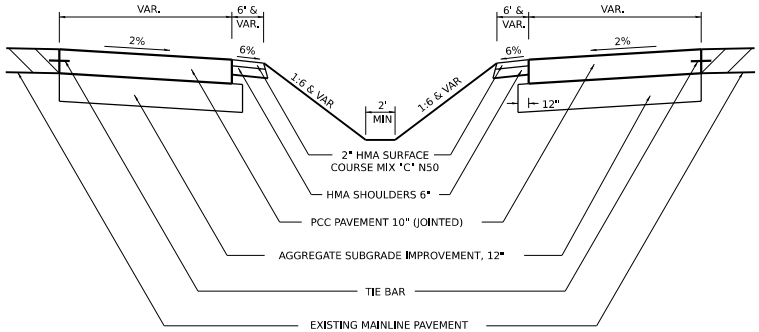
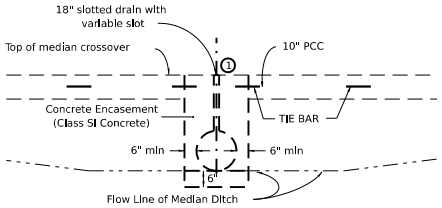
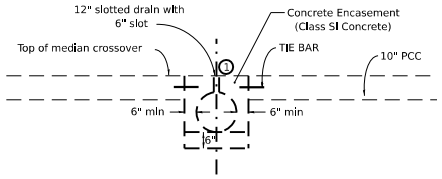


TABLE OF OFFSETS AND DROPS											
Distance feet from location station	0	81.32' (B)	100'	125'	150'	175'	200'	225'	250'	275'	278.80' (C)
Offsets feet from Inside edge of pavement	32' (E)	30'	26.79'	22.80'	19.16'	15.88'	12.95'	10.37'	8.14'	6.26'	6.00'
Drop feet from Inside edge of pavement	0.64'	0.60'	0.54'	0.46'	0.38'	0.32'	0.26'	0.21'	0.16'	0.13'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



① Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(3256.59 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(3082.80 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(95.09 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(848.99 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

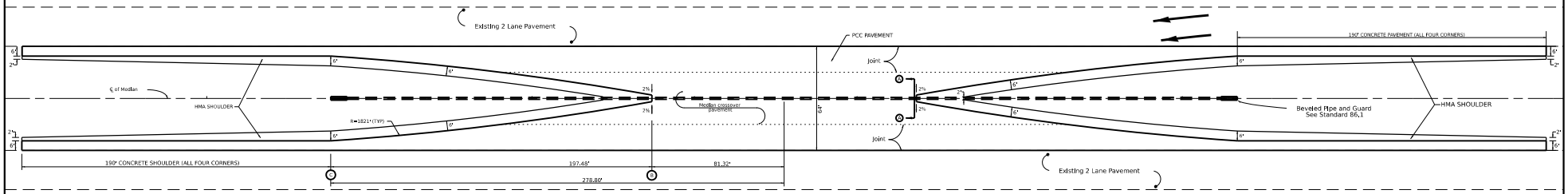
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (JOINTED) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (JOINTED).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 84d1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 6-27-14			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

88' TWO LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

TYPICAL SECTION

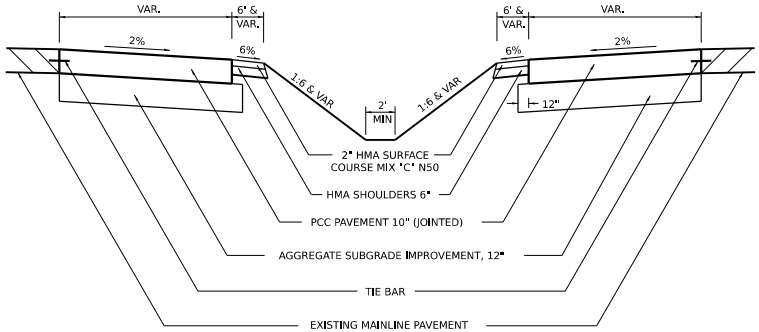
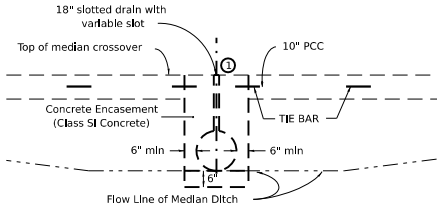
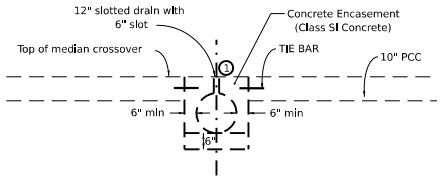


TABLE OF OFFSETS AND DROPS														
Distance feet from location station	0	70.29' (B)	75'	100'	125'	150'	175'	200'	225'	250'	275'	300'	325'	329.24' (C)
Offsets feet from inside edge of pavement	44' (℄)	42'	41.00'	35.93'	31.23'	26.86'	22.86'	19.22'	15.94'	13.00'	10.42'	8.18'	6.29'	6.00'
Drop feet from inside edge of pavement	0.88'	0.84'	0.82'	0.72'	0.62'	0.54'	0.46'	0.38'	0.32'	0.26'	0.21'	0.16'	0.13'	0.12'



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



① Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(4481.22 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12"
(4279.37 Sq. Yds.)	P.C.C. PAVEMENT 10" (JOINTED)
(114.14 Tons)	2" HMA SURFACE COURSE, MIX "C", N50
(1019.14 Sq. Yds.)	HMA SHOULDERS 6"

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

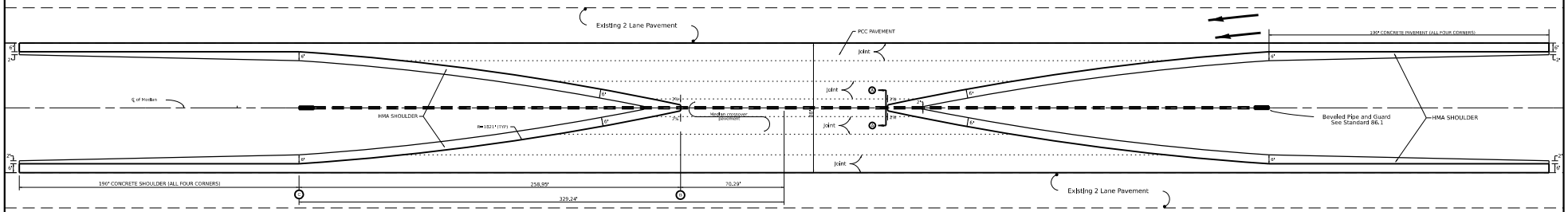
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (Jointed) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (Jointed).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6'from edge of pavement. The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

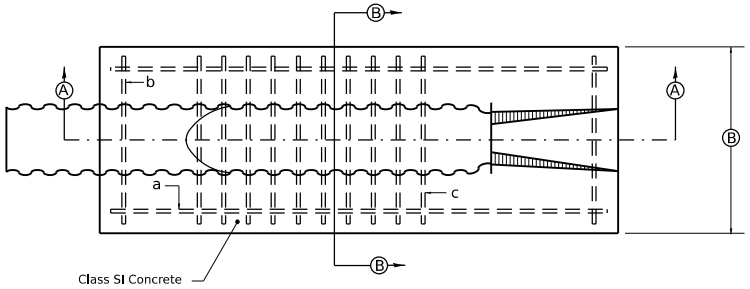
Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

MODEL: 85st1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 2-26-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - 1-05-16			
	CHECKED -	REVISED - 6-27-14		SCALE: / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED - 8-27-13			ILLINOIS / FED. AID PROJECT

BEVELED PIPE & GUARD DETAIL FOR MEDIAN CROSSOVER



PLAN VIEW

12 PIPE REINFORCING SCHEDULE			
Mark Req'd	Bar Size	Length	No.
a	5	110	2
b	5	32	2
c	8	34	10

18 PIPE REINFORCING SCHEDULE			
Mark Req'd	Bar Size	Length	No.
a	5	162	2
b	5	38	2
c	8	40	18

GENERAL NOTES:

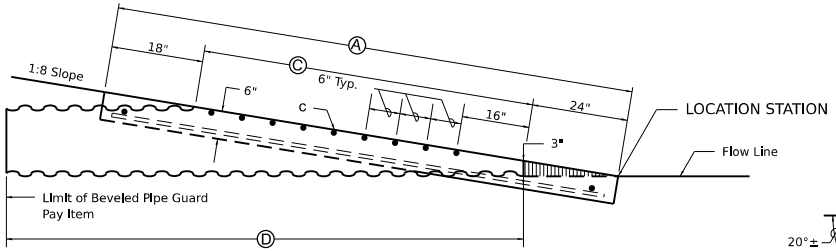
Details shown hereon are for the construction of beveled pipe and guard. Alternate designs, methods of construction or materials may be submitted to the Engineer for approval. All methods of construction and materials involved shall conform to current Standard Specifications.

Reinforcing steel used in construction of "Beveled Pipe and Guard" shall be deformed bars meeting the requirements of Article 1006.10 of the Standard Specifications. All steel bars shall be hot-dip galvanized in accordance with ASTM A 123 specifications.

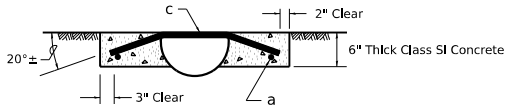
Concrete used in construction of the beveled pipe and guard shall be Class "SI" Concrete.

The corrugated metal pipe shall be cut to fit the 1:8 foreslope. Slots shall be cut into the C.M.P. for placement of the 'b' and 'c' bars. After the foreslope has been placed, the 'b' and 'c' bars shall be fitted into the slots cut in the C.M.P. so they will be in proper position when the concrete collar is poured.

This work shall be paid for at the contract unit price per Each for "Beveled Pipe and Guard", as shown hereon and as directed by the Engineer.



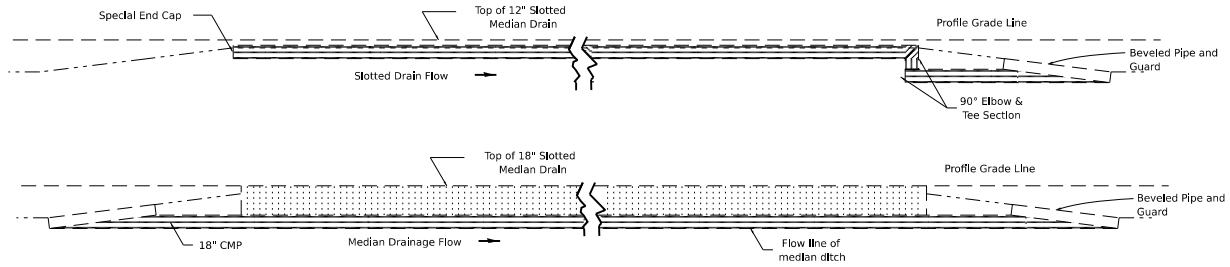
SECTION A-A



SECTION B-B

TABLE OF DIMENSIONS				
PIPE SIZE	A	B	C	D
12	9'-6"	36	6'	10'
18	13'-10"	42	10'-4"	14'-10"

TYPICAL SECTION THRU CENTERLINE OF MEDIAN CROSSOVER



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 86d1
FILE NAME: DISTRICT 2 STANDARD

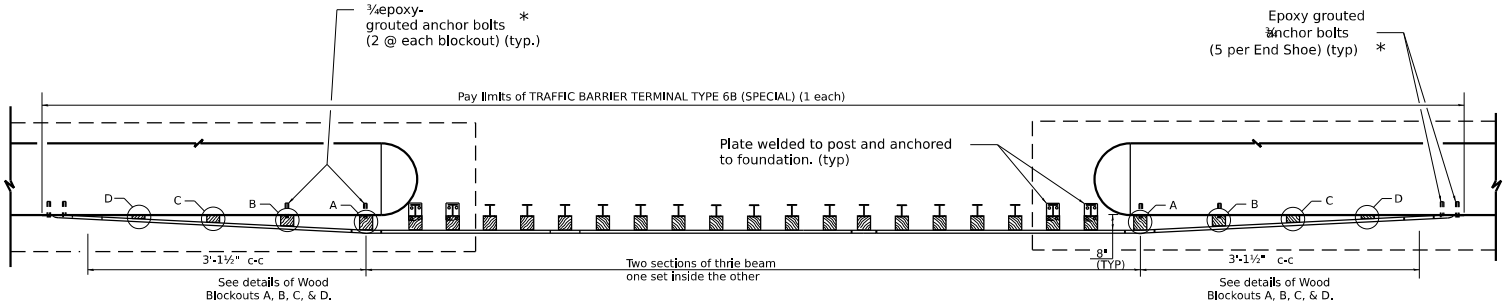
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 5-27-09
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

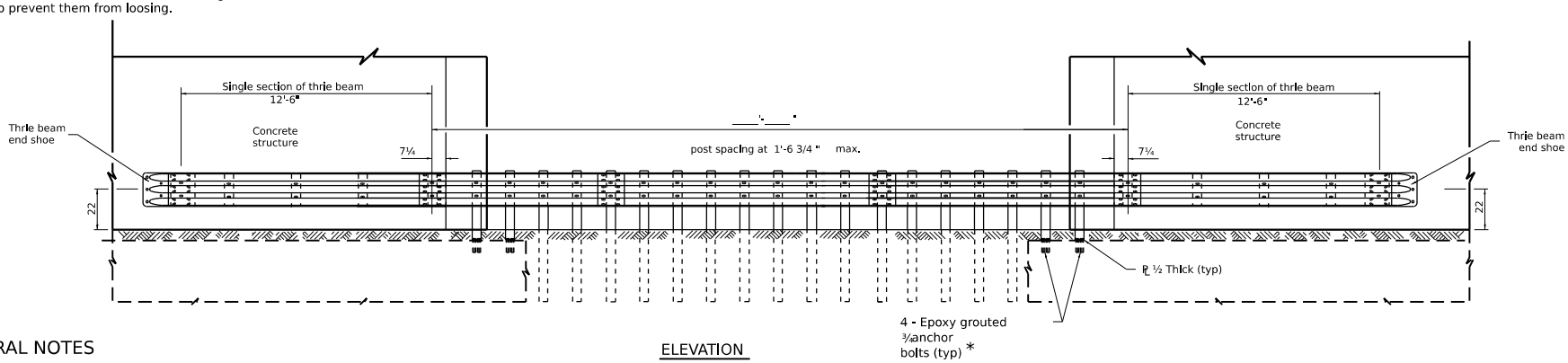
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



PLAN

* With standard washers. After tightening, cut the anchor bolts flush with the nuts and damage the nuts to prevent them from loosing.



ELEVATION

GENERAL NOTES

This work shall be done according to Section 631 of the Standard Specifications and this detail.

See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

Posts located above pier foundation shall have plate attached to post and anchored to foundaton.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches unless otherwise shown.

The Traffic barrier Terminal, Type 6B (Special) will be measured for payment, complete in place, in units of each.

This work shall be paid for at the contract unit price per each for TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL).

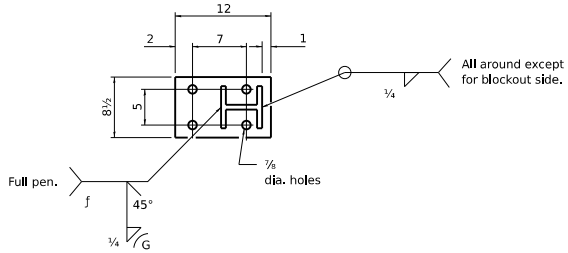


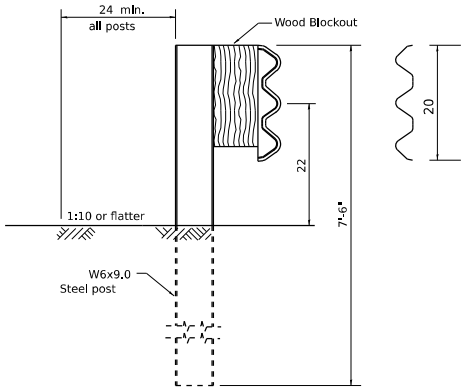
PLATE DETAIL

MODEL: 90p1_sheet1
FILE NAME: DISTRICT 2 STANDARD

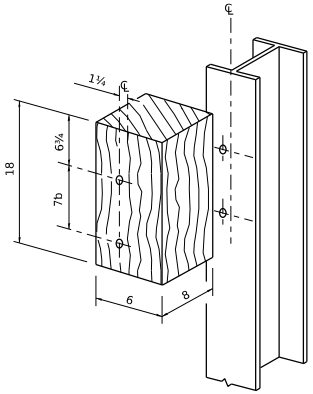
USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			CONTRACT NO.
PLOT DATE = 4/17/2025	CHECKED -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT
	DATE -	REVISED -			

TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL) SHEET 1 OF 2 90.1

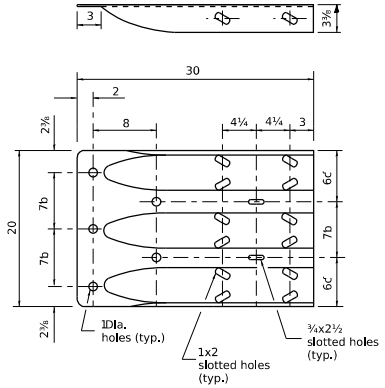
TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL)



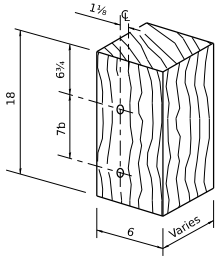
SECTION A-A



WOOD BLOCKOUT DETAIL

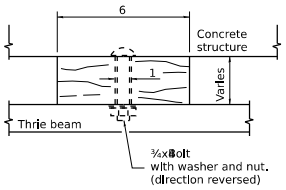


THRIE BEAM END SHOE DETAIL

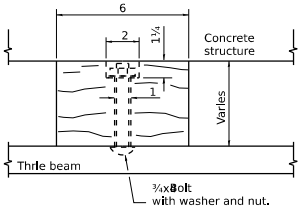


MODIFIED THICKNESS DETAIL

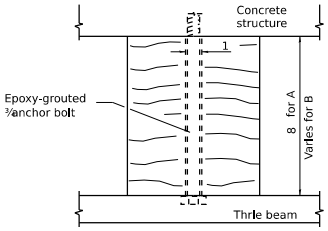
WOOD BLOCKOUTS A, B, C, & D



WOOD BLOCKOUT D



WOOD BLOCKOUT C

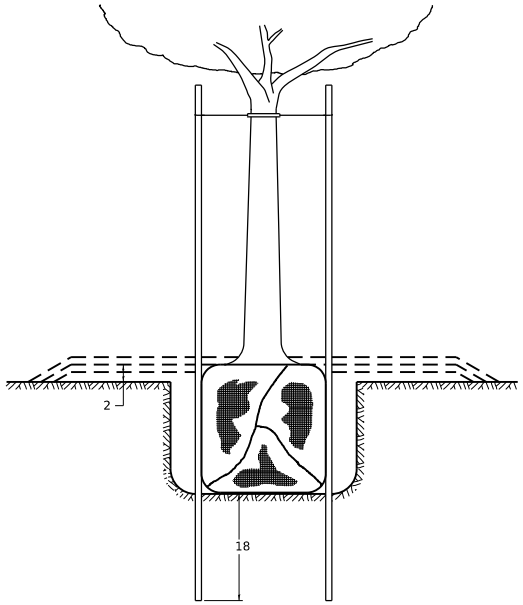


WOOD BLOCKOUT A & B

MODEL: 90p1 sheet2
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			
	CHECKED -	REVISED -			CONTRACT NO.
PLOT DATE = 4/17/2025	DATE -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

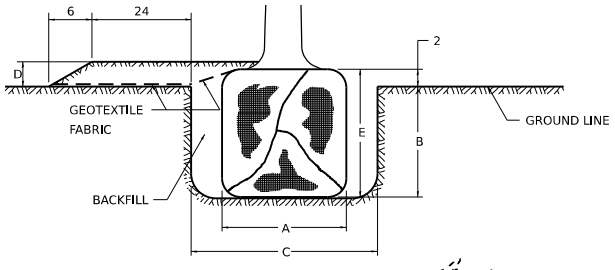
DETAILS OF PLANTING AND BRACING TREES

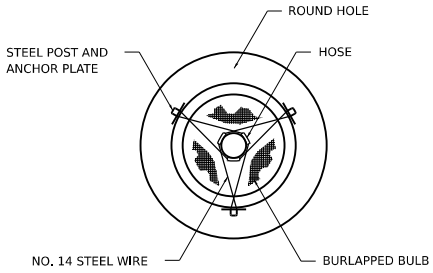


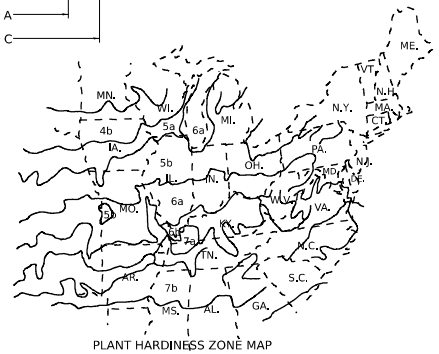
TREES SMALLER THAN 4½ IN DIAMETER

SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2½ BB	24	14	48	4	16	0.78
2½-3 BB	28	17	48	4	19	0.78
3-3½ BB	32	17	60	4	19	0.96
3½-4 BB	36	20	60	4	22	0.96
4-4½ BB	40	22	72	4	24	1.16
4½-5 BB	44	24	72	4	26	1.16
5-5½ BB	48	27	84	4	29	1.38

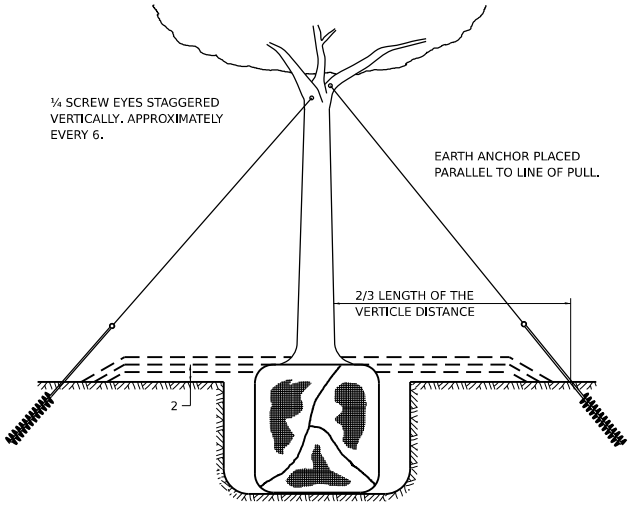




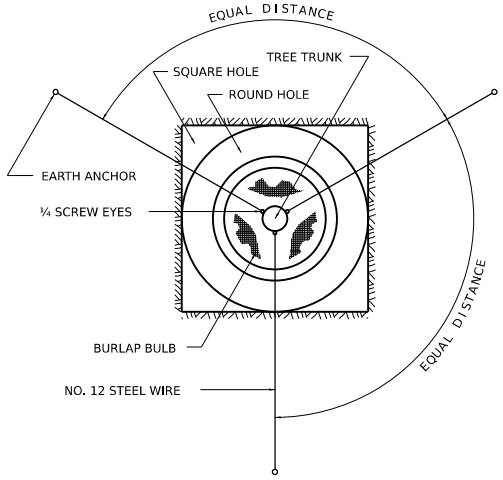


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 4½ IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

MODEL: 92at1
FILE NAME: DISTRICT 2 STANDARD

USER NAME = IDOT / DISTRICT 2	DESIGNED -	REVISED - 10-18-11
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/17/2025	DATE -	REVISED -

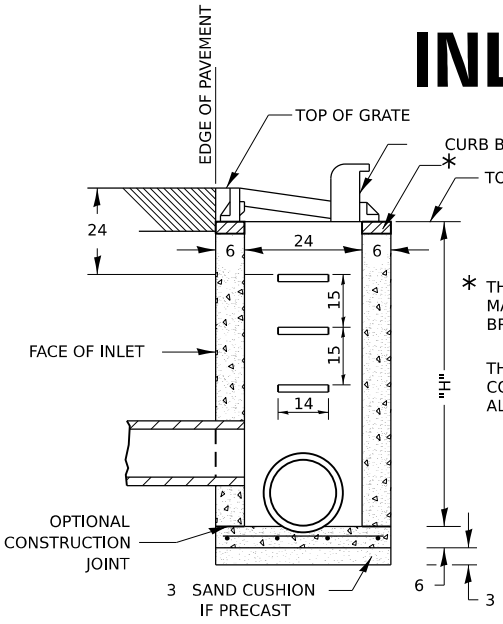
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

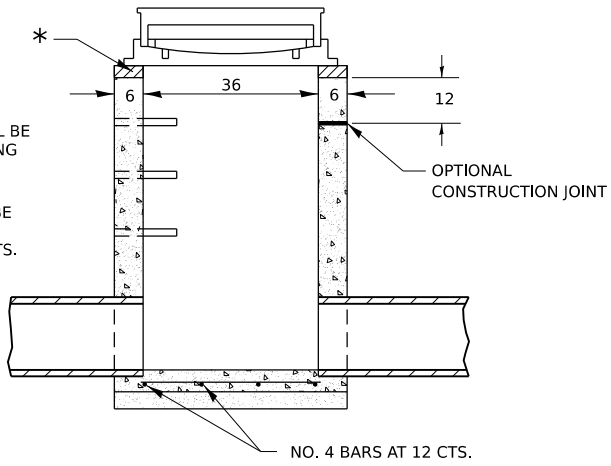
INLETS, SPECIAL



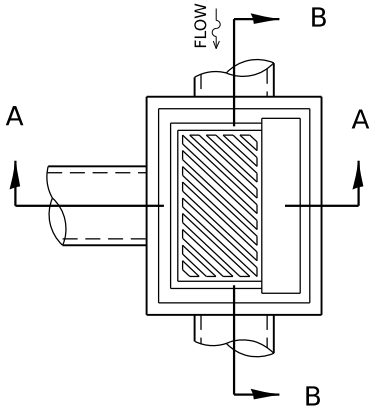
SEC. A-A

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



SEC. B-B



NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

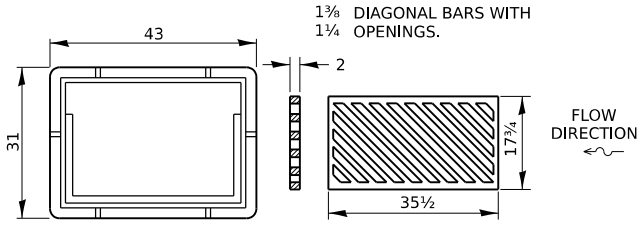
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 530 lbs. ± .
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 ft.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

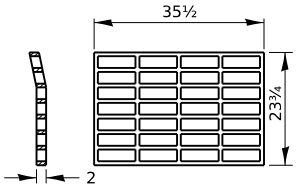
THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

DETAIL OF FRAME & GRATE

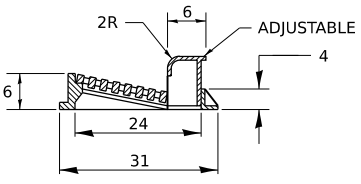


PLAN OF FRAME

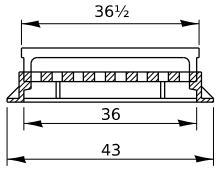
PLAN OF GRATE



PLAN OF GRATE *



SECTION A-A



SECTION B-B

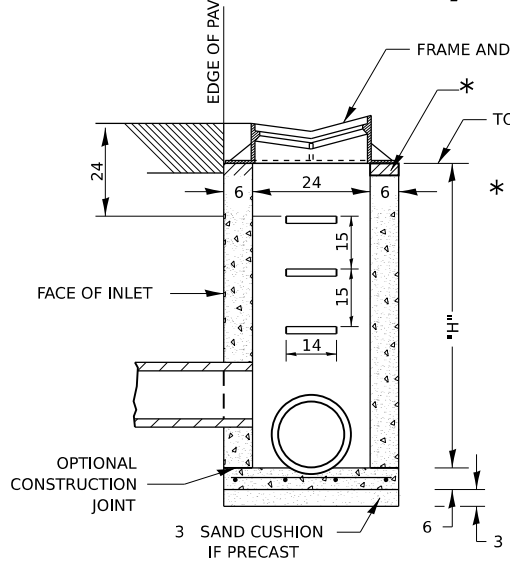
* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

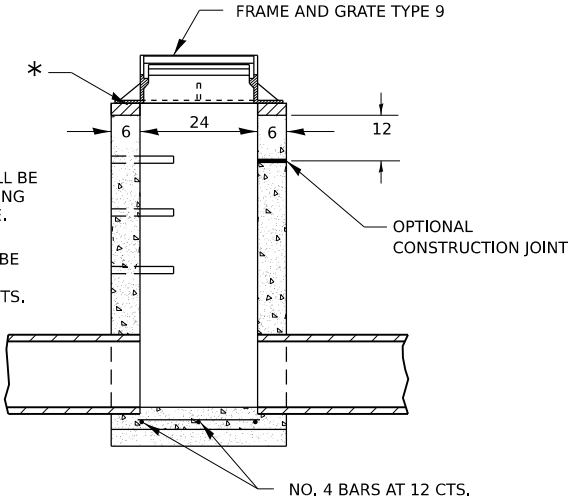
REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 6-27-14						
REVISED - 10-13-11				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

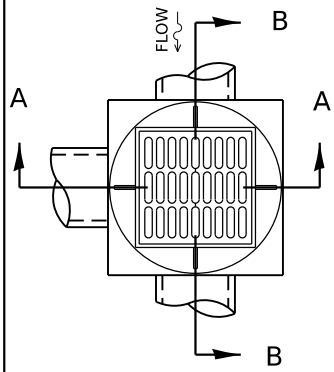
MODEL: 10pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

INLETS, SPECIAL (TYPE A GUTTER)



SEC. A-A





NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

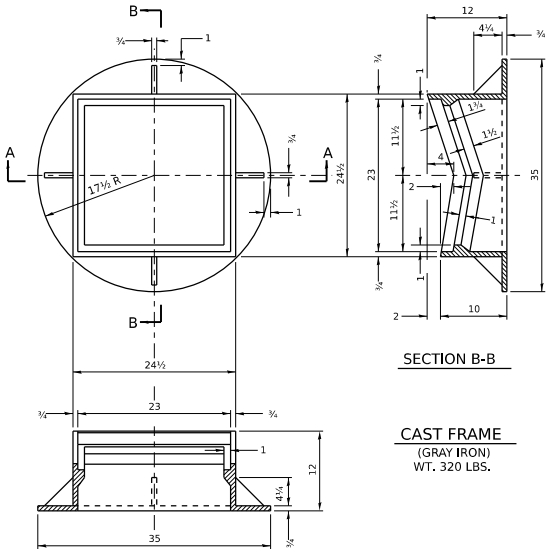
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 440 LBS.

STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FT.

FRAME AND GRATES TYPE 9

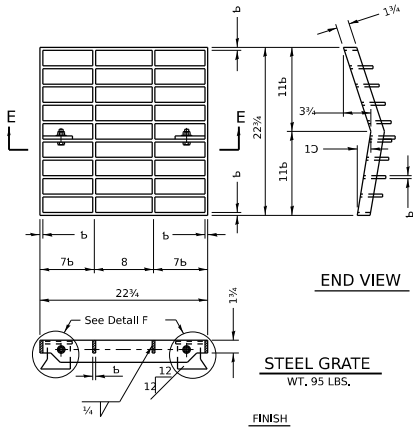


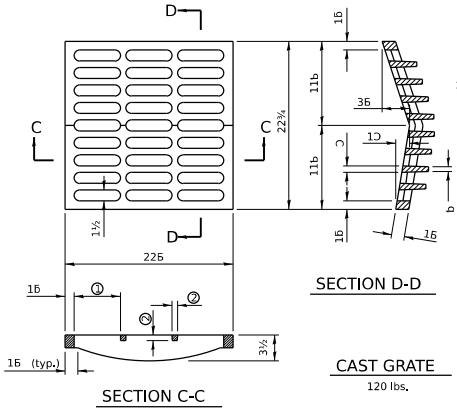
DETAIL OF FRAME & GRATE

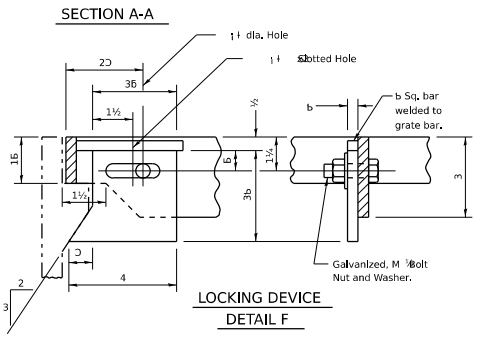
NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE STEPS (IF USED), THE PRECAST FLOOR SLAB, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.







GENERAL NOTES

THE MATERIAL FOR STEEL GRATE SHALL CONFORM TO ARTICLE 1006.04 OF THE STANDARD SPECIFICATIONS.

THE USE OF EITHER A CAST GRATE OR A STEEL GRATE WITH THE CAST FRAME SHALL BE THE OPTION OF THE CONTRACTOR.

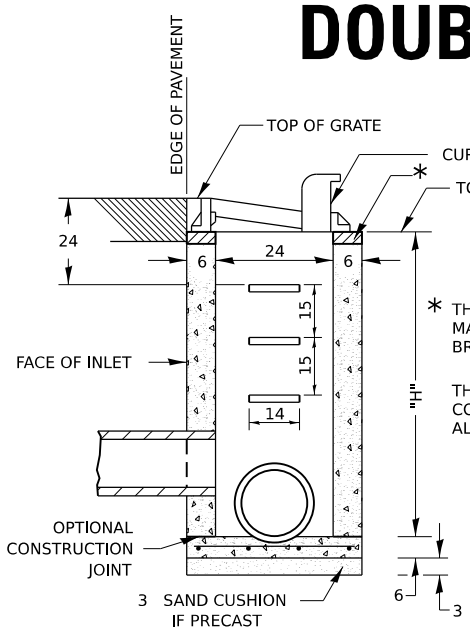
THE CAST GRATE MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTILE IRON CASTING SHALL BE GRADE 65-45-12

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 11pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14						
REVISED - 10-13-11					CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT

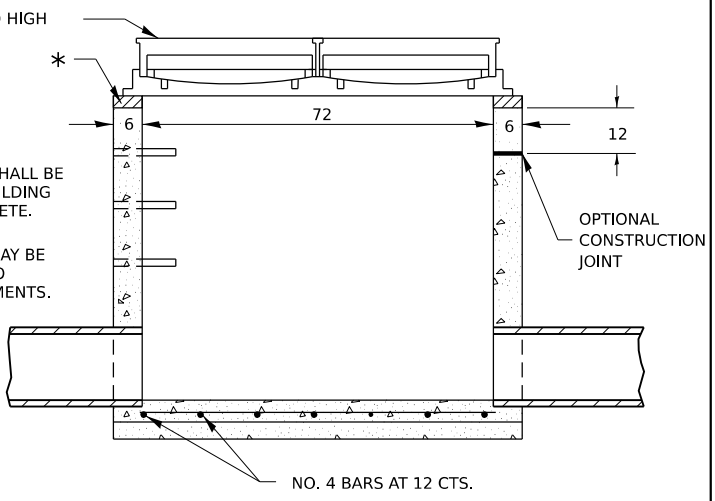
DOUBLE INLET, SPECIAL



SEC. A-A

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



SEC. B-B

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON DOUBLE INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

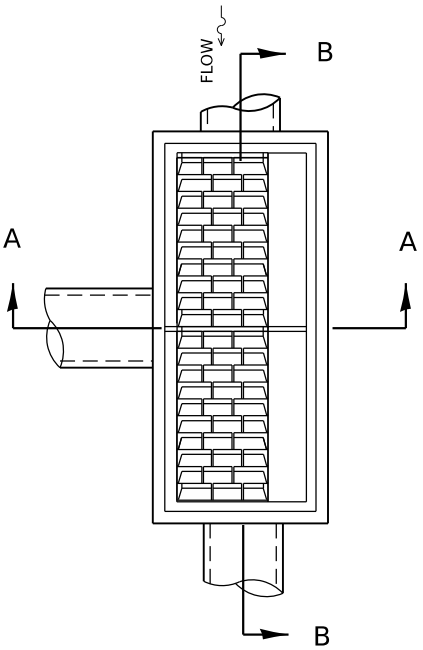
R-3295-2 DOUBLE UNIT OR EQUIVALENT.

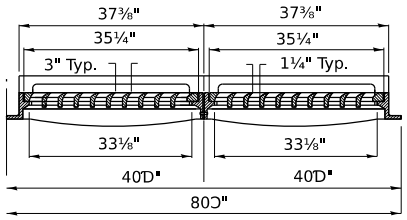
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FOOT.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

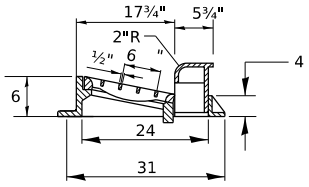
CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT.
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

DETAIL OF FRAME & GRATE





SECTION B-B



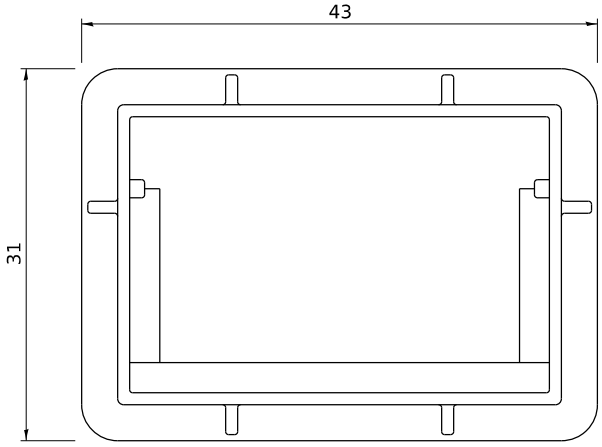
SECTION A-A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

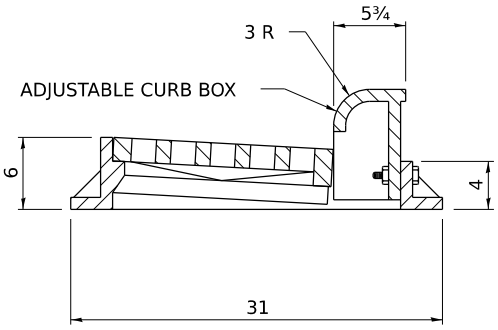
REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 7-16-15							
REVISED - 10-13-11					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

MODEL: 12pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

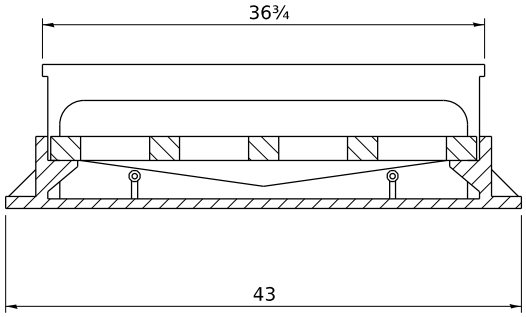
FRAME AND GRATE FOR INLETS, SPECIAL



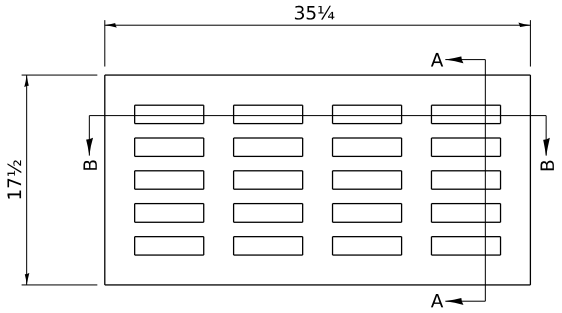
PLAN OF FRAME
WITHOUT GRATE AND CURB BOX



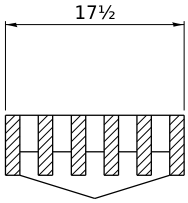
TRANSVERSE SECTION



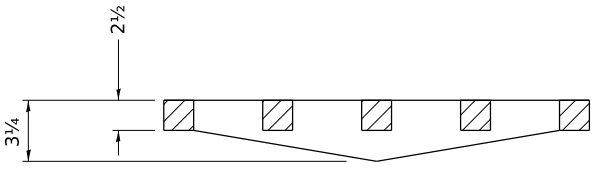
LONGITUDINAL SECTION



PLAN OF GRATE



SECTION A-A



SECTION B-B

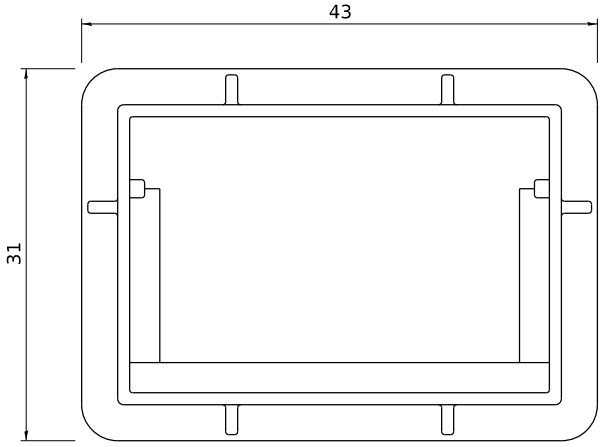
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

R 3246 OR EQUIVALENT
APPROXIMATE WEIGHT - 495 LBS.

REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-13-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

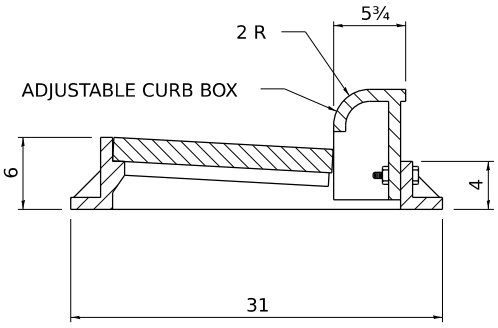
MODEL: 13pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

FRAME AND GRATE FOR INLETS, SPECIAL

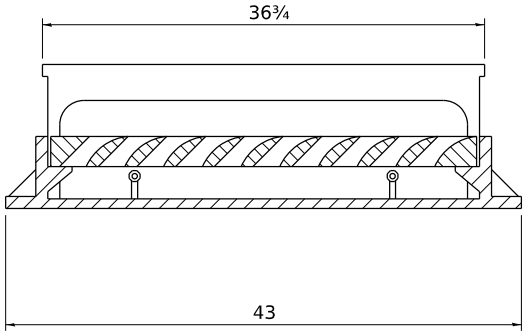


PLAN OF FRAME

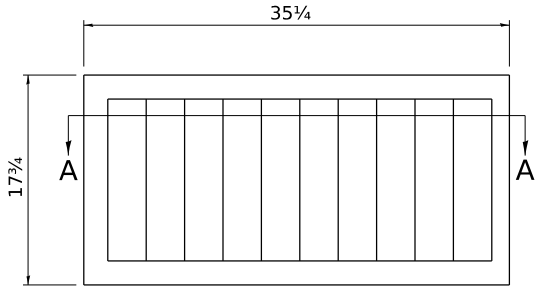
WITHOUT GRATE AND CURB BOX



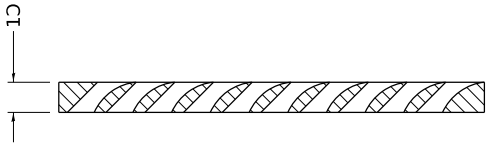
TRANSVERSE SECTION



LONGITUDINAL SECTION



PLAN OF GRATE



SECTION A-A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

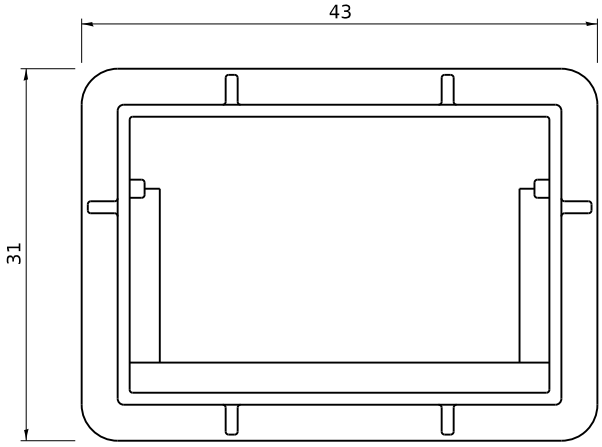
R 3067 OR EQUIVALENT

APPROXIMATE WEIGHT - 465 LBS.

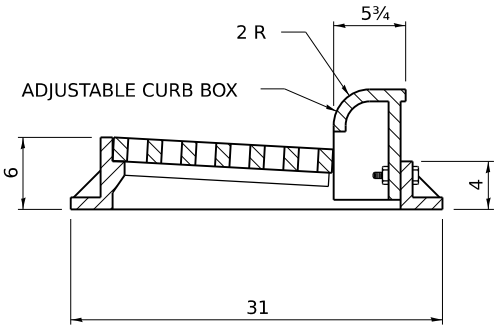
REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-13-11						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: 13pi2a
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

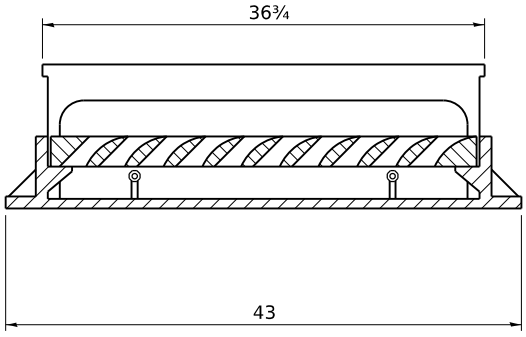
FRAME AND GRATE FOR INLETS, SPECIAL



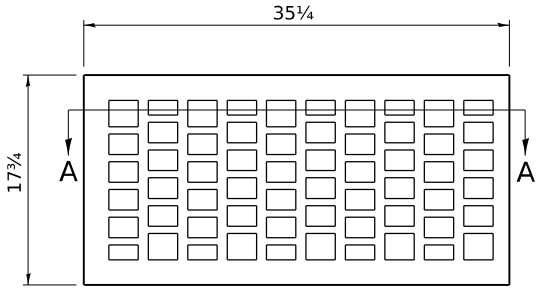
PLAN OF FRAME
WITHOUT GRATE AND CURB BOX



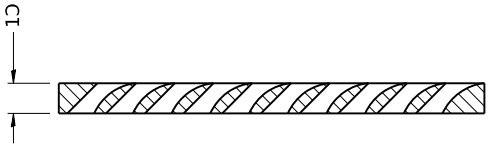
TRANSVERSE SECTION



LONGITUDINAL SECTION



PLAN OF GRATE



SECTION A-A

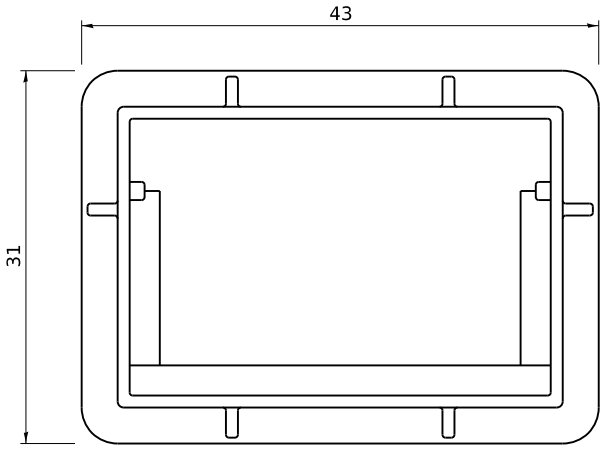
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

R 3067 OR EQUIVALENT
APPROXIMATE WEIGHT - 490 LBS.

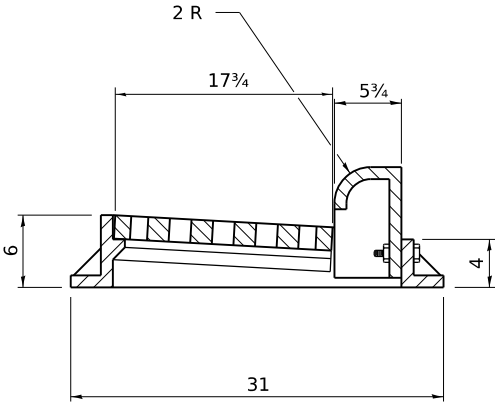
REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-13-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

MODEL: 13pl2b
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

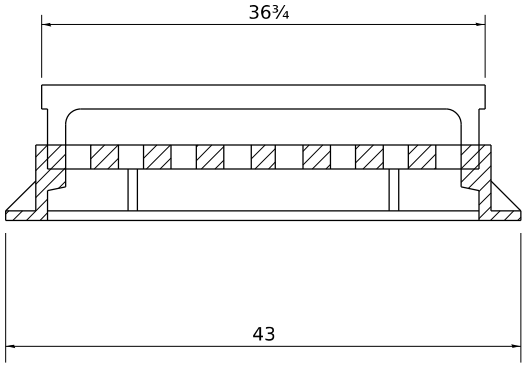
FRAME AND GRATE FOR INLETS, SPECIAL



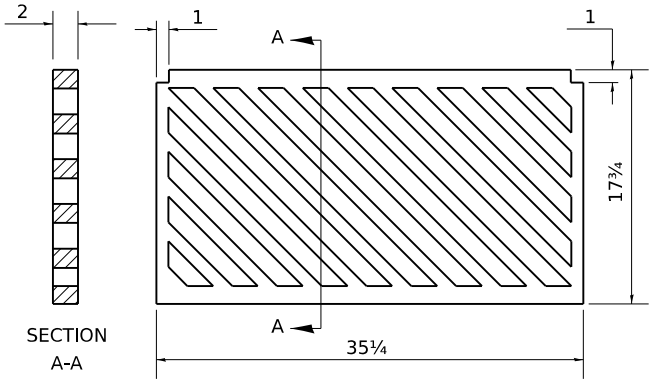
PLAN OF FRAME
WITHOUT GRATE AND CURB BOX



TRANSVERSE SECTION



LONGITUDINAL SECTION



SECTION
A-A

PLAN OF GRATE

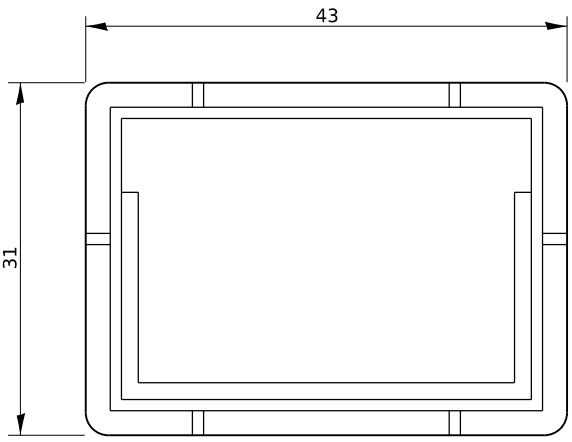
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

R 3067 OR EQUIVALENT
APPROXIMATE WEIGHT - 510 LBS.

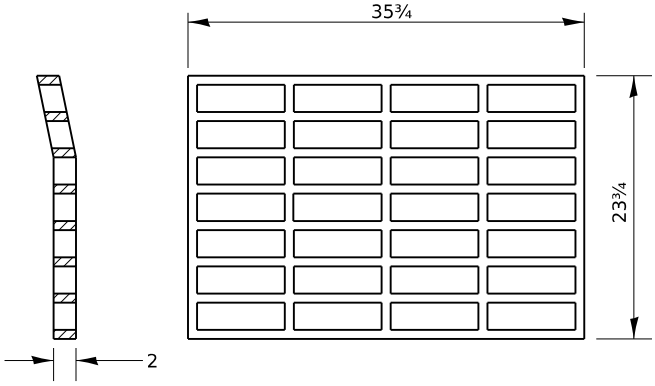
REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-13-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: 13pl2c
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

FRAME AND GRATE FOR INLETS, SPECIAL

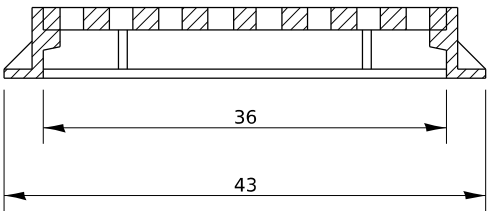


PLAN OF FRAME



PLAN OF GRATE *

* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

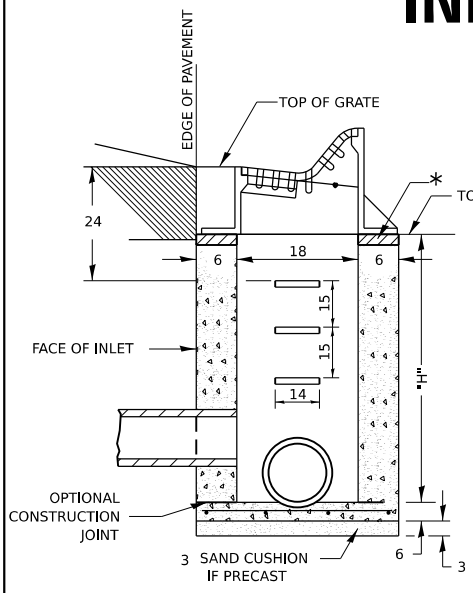
R-3290-A OR EQUIVALENT

APPROXIMATE WEIGHT OF CAST IRON FRAME & GRATE - 530 LBS.

MODEL: 13pl2d
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 4-14-15	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14									
REVISED - 10-14-11								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

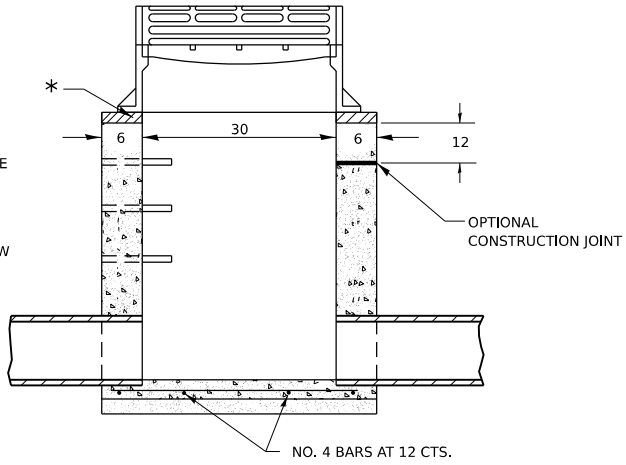
INLETS, SPECIAL, NO. 1



SEC. A-A

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



SEC. B-B

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FOOT.

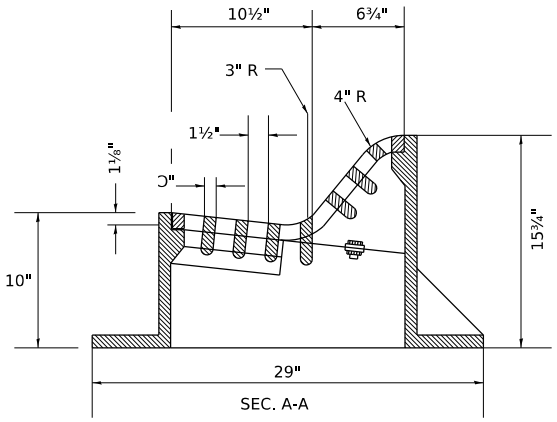
BOTH INLET SPECIAL NO. 1 SHALL DRAIN VERTICALLY TO THE ACROSS ROAD CULVERT LOCATED BENEATH.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

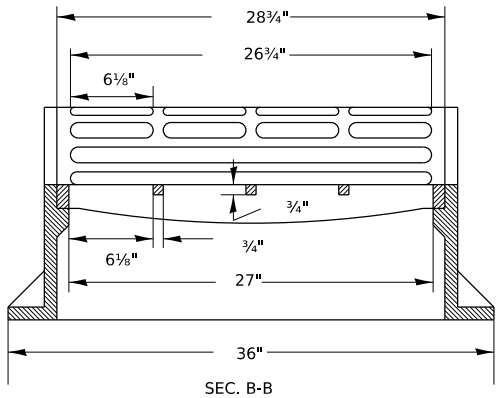
THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL, NO.1 SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

FRAME AND GRATE # R-3503-B OR EQUIVALENT

DETAIL OF FRAME & GRATE



SEC. A-A



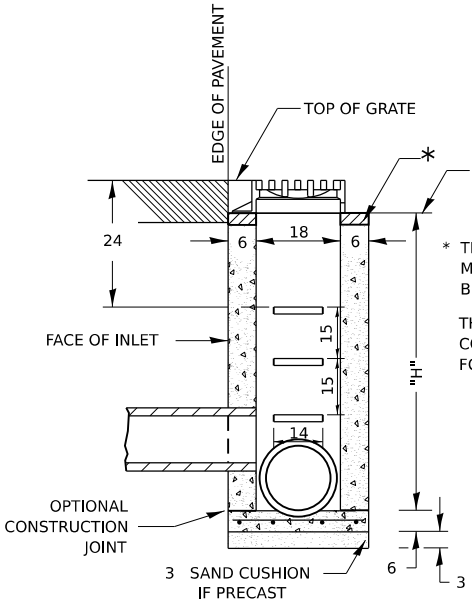
SEC. B-B

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 14pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14					
REVISED - 10-14-11				CONTRACT NO.	
REVISED -	SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS	FED. AID PROJECT

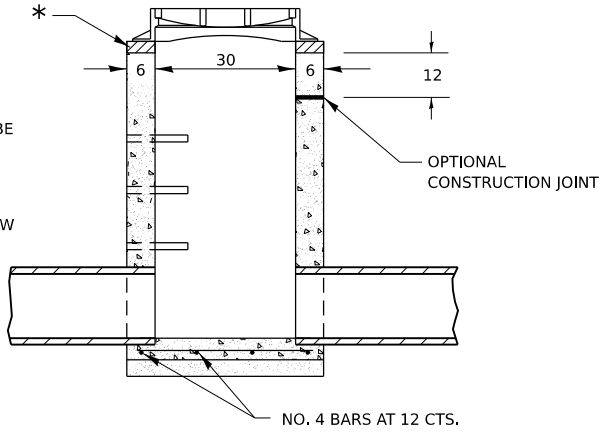
INLETS, SPECIAL, NO. 2



SEC. A-A

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



SEC. B-B

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

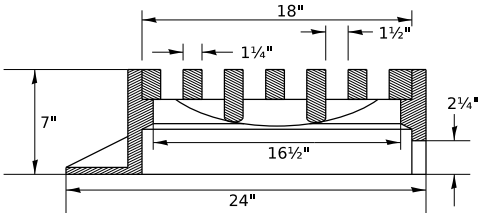
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FOOT.
INLET SPECIAL NO. 2 ℄ SHALL MATCH THE EXISTING STORM SEWER AS SHOWN ON THE PLANS.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

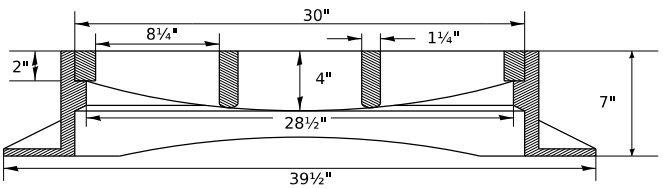
THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL, NO.2 SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE STEPS (IF USED), THE PRECAST FLOOR SLABS, AND CUSHION (WHEN USED) REINFORCEMENT BARS, AND REMOVAL OF ANY EXCESS STORM SEWER.

FRAME AND GRATE # R-3461 OR EQUIVALENT

DETAIL OF FRAME & GRATE



SEC. A-A

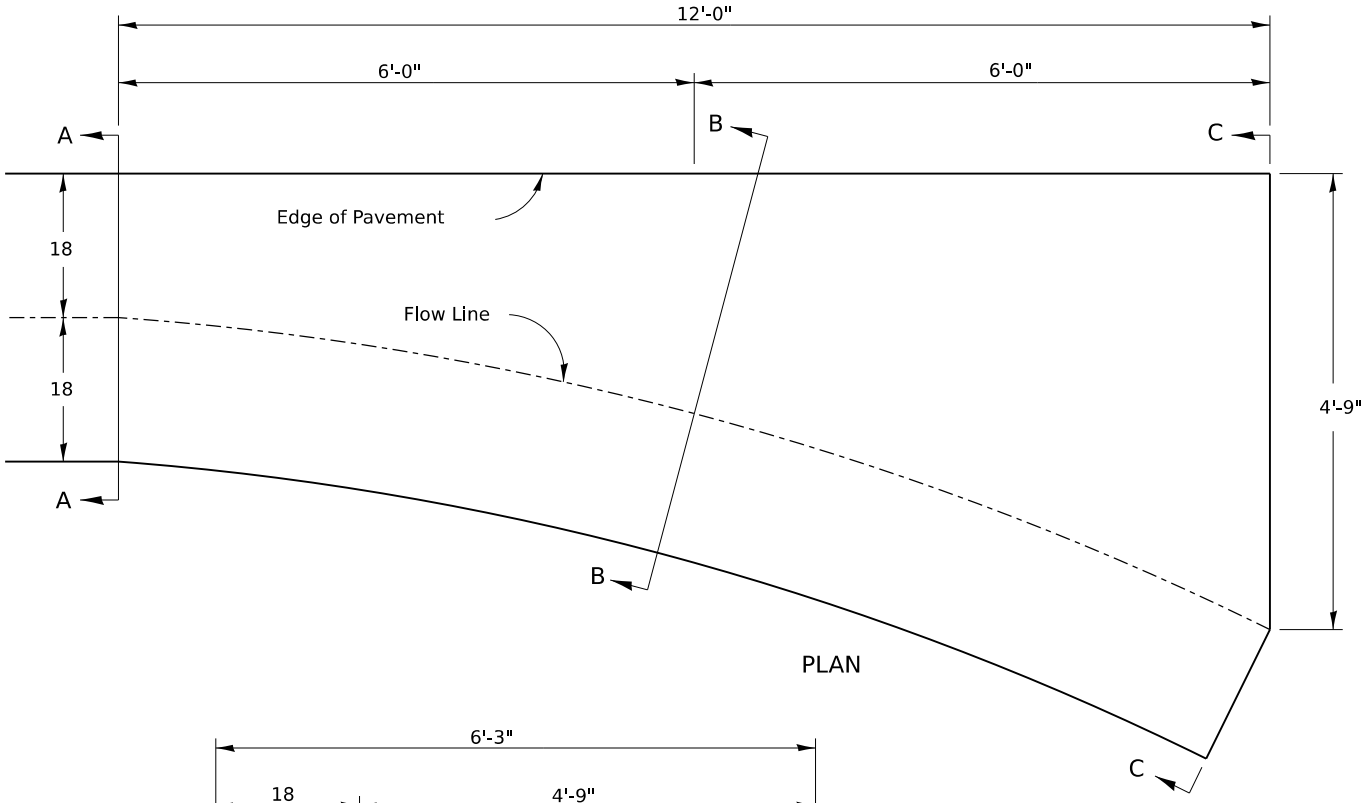


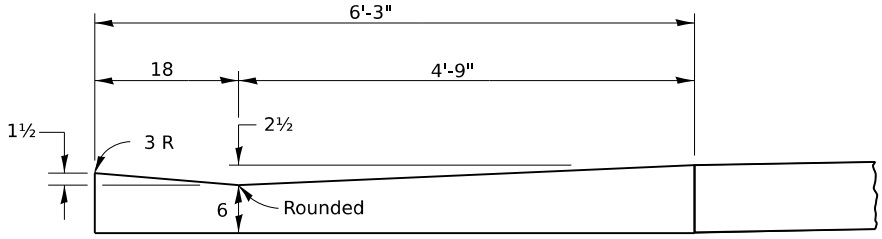
SEC. B-B

MODEL: 15pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 6-27-14							
REVISED - 10-14-11					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

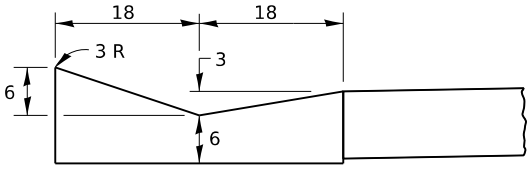
STANDARD INLET FOR TYPE A GUTTER (SPECIAL)



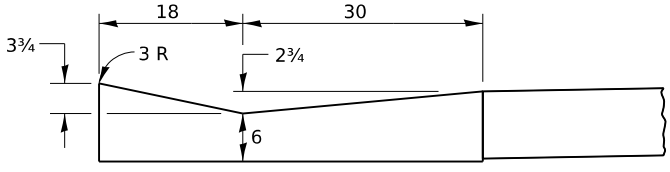


Section C-C

- QUANTITY -
Section A-A to C-C
1.2 Cu. Yds.
Class SI Concrete



Section A-A



Section B-B

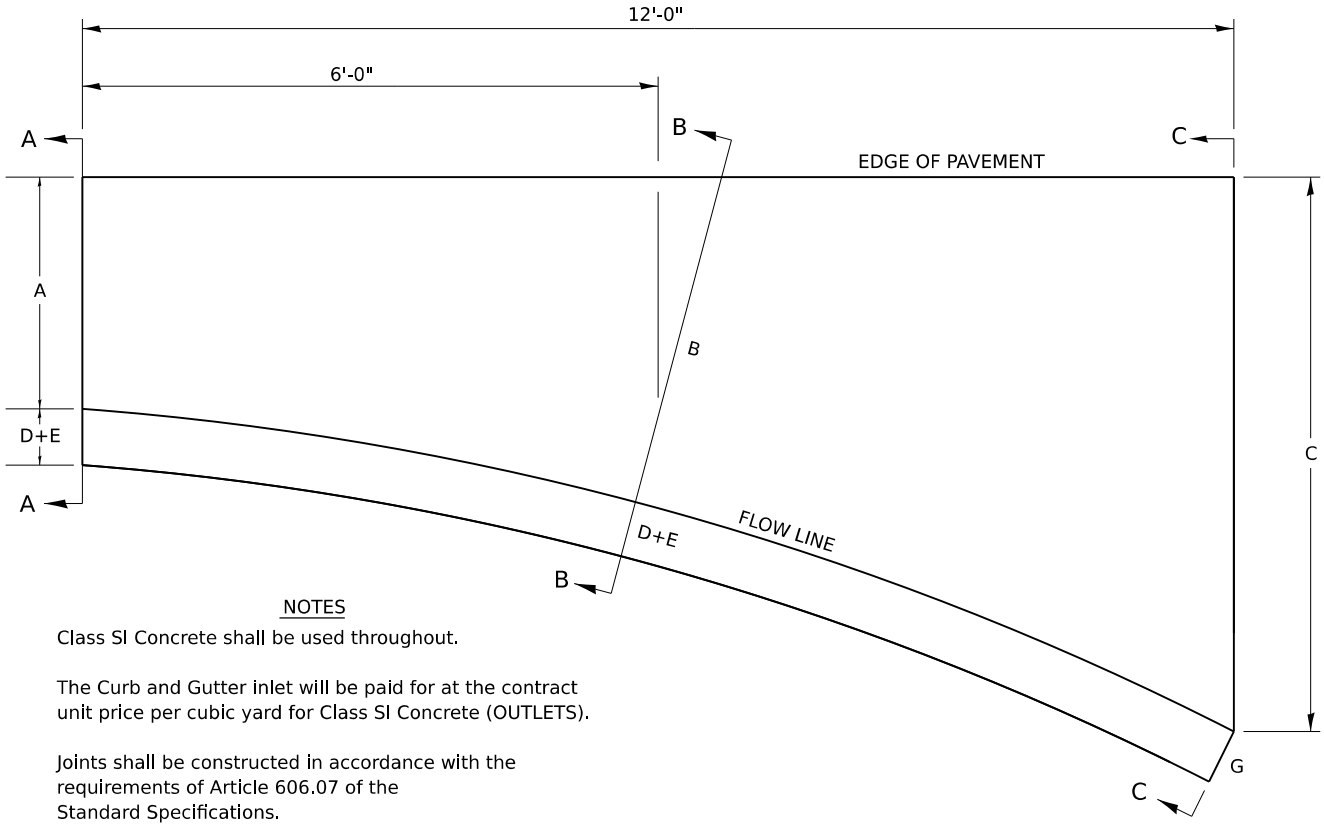
Class SI Concrete shall be used throughout.
The gutter inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS)

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 12-04-13	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -					
REVISED -				CONTRACT NO.	
REVISED -	SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS	FED. AID PROJECT

MODEL: 20pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

STANDARD INLET FOR CURB & GUTTER



NOTES

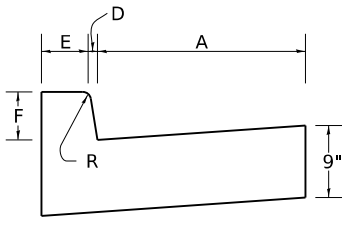
Class SI Concrete shall be used throughout.

The Curb and Gutter inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

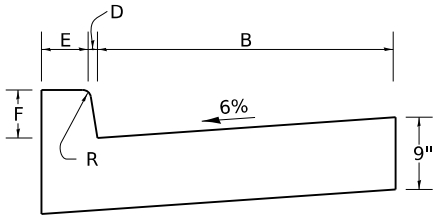
Joints shall be constructed in accordance with the requirements of Article 606.07 of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

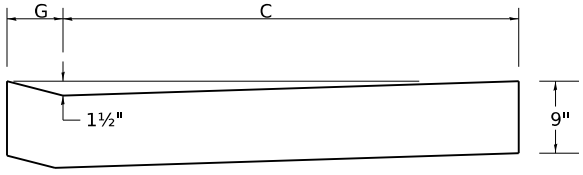
All dimensions are in inches unless otherwise noted.



SECTION A-A



SECTION B-B



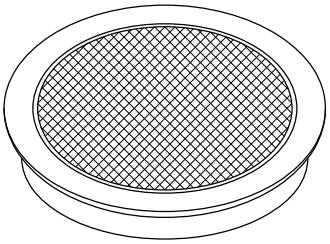
SECTION C-C

TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS								CONCRETE QUANTITY A-A TO C-C (CU YDS)
	A	B	C	D	E	F	G	R	
B-6.06	6	15	4'	1	6	6	7	1	0.87
B-6.12	12	18.25	4'	1	6	6	7	1	0.95
B-6.18	18	27.25	4' 9"	1	6	6	7	1	1.18
B-6.24	24	32.4	4' 9"	1	6	6	7	1	1.30
M-4.06	6	17.8	3' 9"	4	3	4	7	3	0.75
M-4.12	12	18.25	4'	4	3	4	7	3	0.91
M-4.18	18	27.25	4' 9"	4	3	4	7	3	1.14
M-4.24	24	32.4	4' 9"	4	3	4	7	3	1.25
M-6.06	6	17.8	3' 9"	6	2	6	8	3	0.86
M-6.12	12	18.25	4'	6	2	6	8	2	0.96
M-6.18	18	27.25	4' 9"	6	2	6	8	2	1.20
M-6.24	24	32.4	4' 9"	6	2	6	8	2	1.30

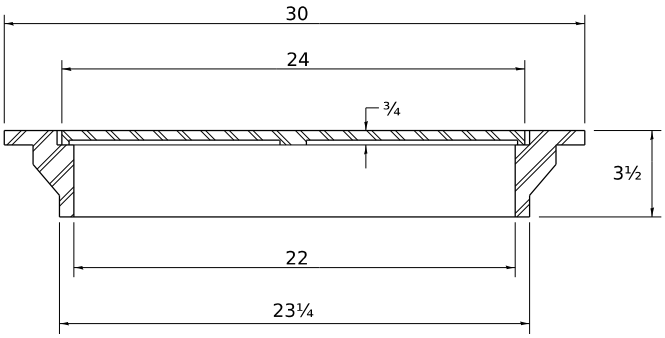
MODEL: 21pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 11-12-14	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 8-27-13						
REVISED - 10-10-06				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA.

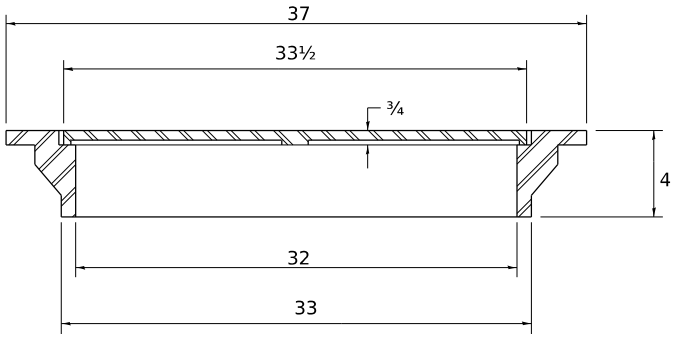


FRAME & LID FOR 2' VAULT

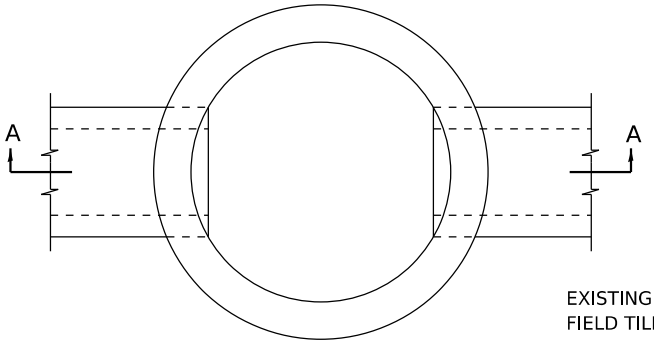


TOTAL WEIGHT: 146 LBS.

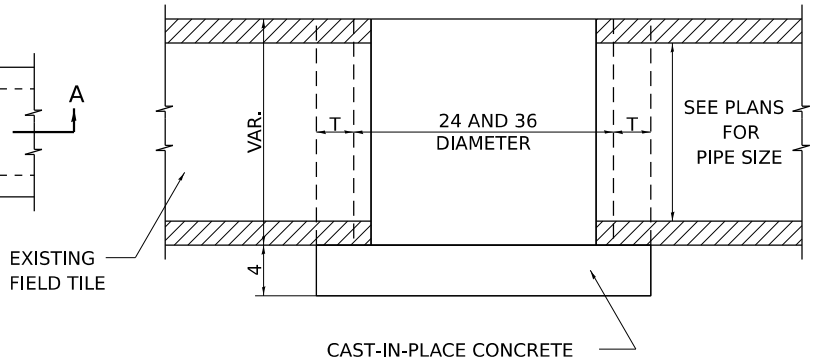
FRAME & LID FOR 3' VAULT



TOTAL WEIGHT: 280 LBS.



PLAN



SECTION A-A

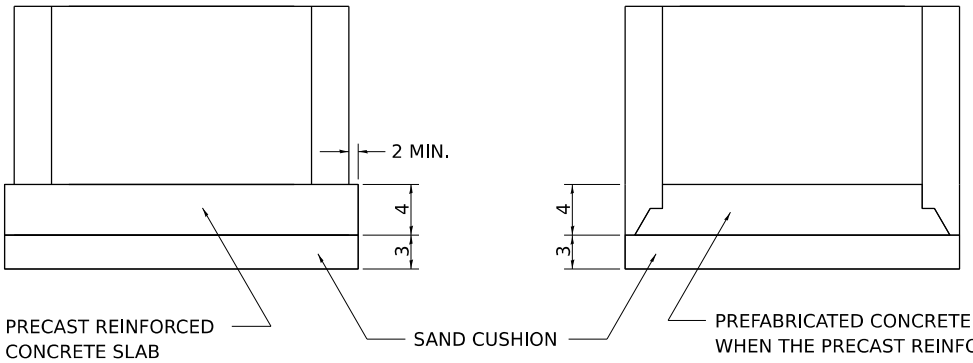
GENERAL NOTES:

THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.
THE FRAME AND LID SHALL BE INSTALLED FLUSH WITH THE GROUND.

FRAME AND LIDS:

R-6040 OR EQUIVALENT (2')
R-6080 OR EQUIVALENT (3')

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8
CAST-IN-PLACE CONCRETE	6
CONCRETE MASONRY UNIT	5
PRECAST REINFORCED CONCRETE SECTION	3



ALTERNATE METHODS

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

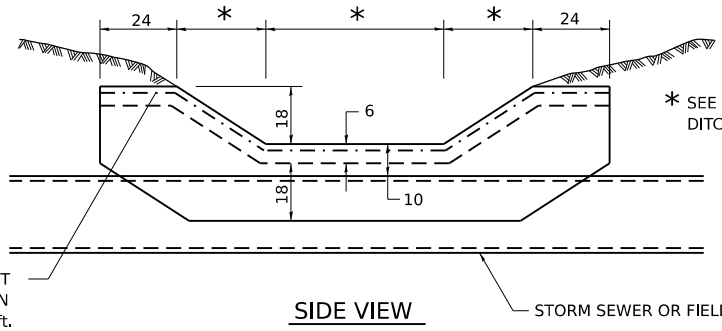
REVISED - 1-03-18	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14									
REVISED - 10-14-11								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT

MODEL: 30p12
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

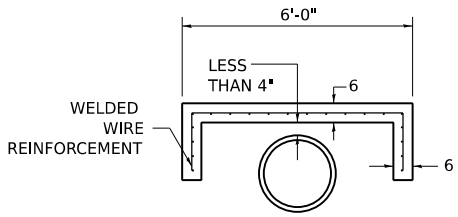
TREATMENT OF FIELD TILE SYSTEMS UNDER DITCHES

PAVED DITCH

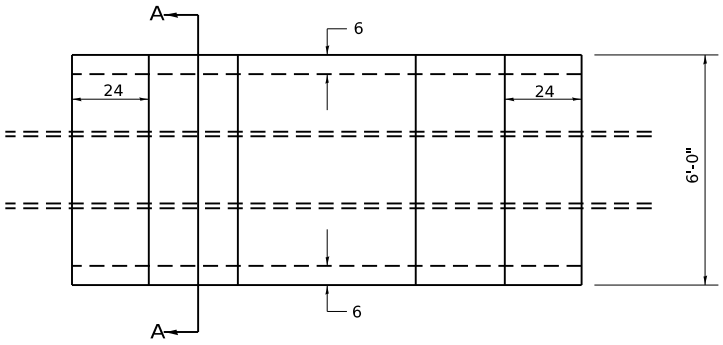
TO BE USED IF COVER OVER THE PIPE AT THE BOTTOM OF THE DITCH IS LESS THAN 10 inches



SIDE VIEW



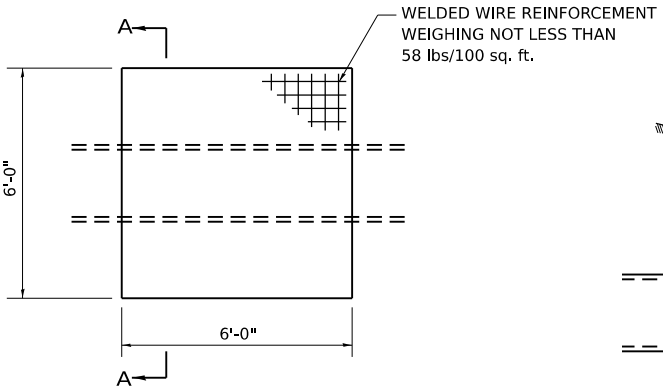
SECTION A-A

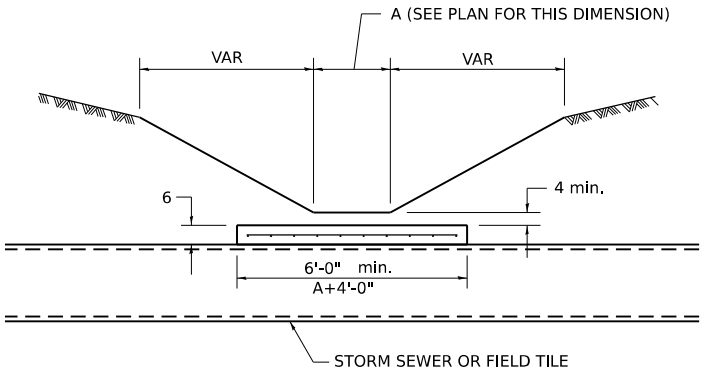


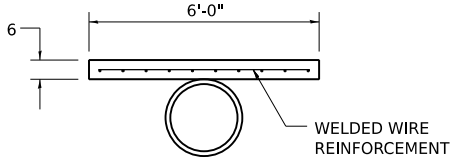
PLAN VIEW

CONCRETE SLAB

TO BE USED IF COVER OVER THE PIPE AT THE BOTTOM OF THE DITCH IS 10 INCHES TO 24 INCHES







SECTION A-A

NOTES

THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 611.04 OF THE STANDARD SPECIFICATION.

THE CONCRETE SLAB AND PAVED DITCH WILL BE PAID FOR AT THE CONCRETE UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

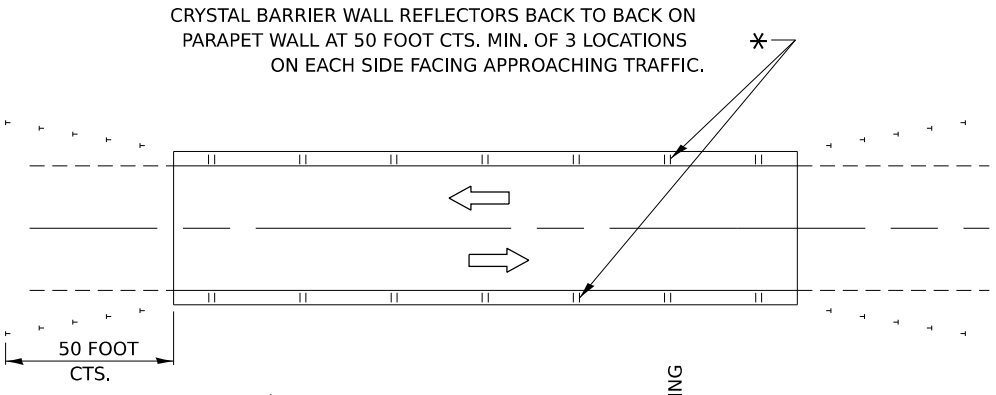
MODEL: 31p12
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

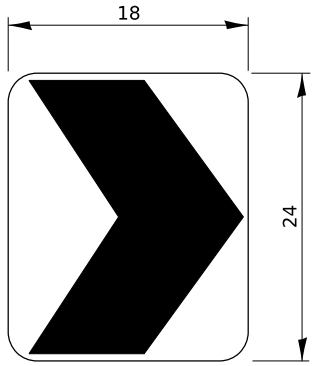
REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 (SPECIAL)

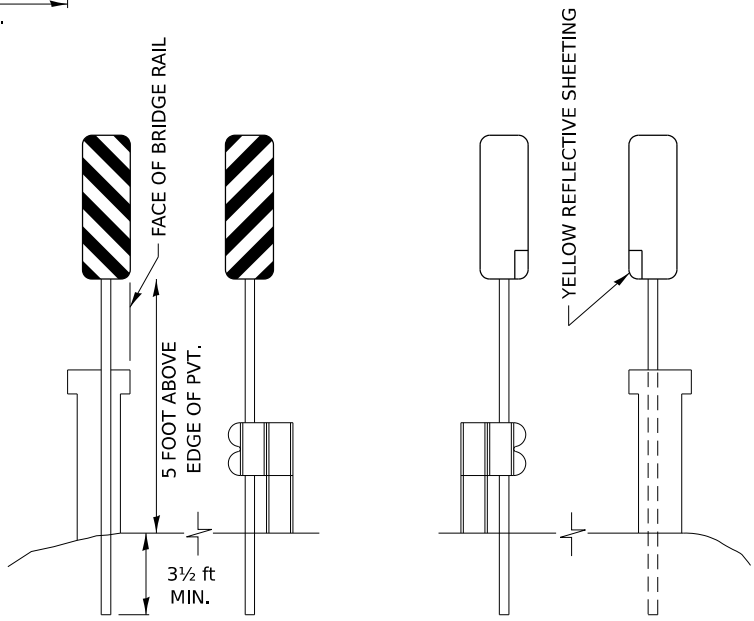
SIGN LAY OUT FOR NARROW BRIDGES ON TWO-WAY ROADWAYS

(WHERE THE BRIDGE IS LESS THAN 24 WIDER THAN THE ROADWAY SURFACE.)



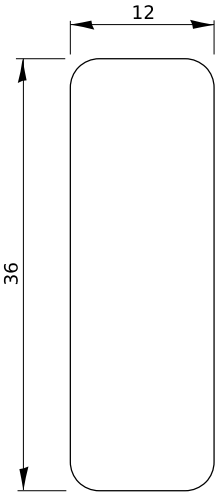


TYPICAL CHEVRON

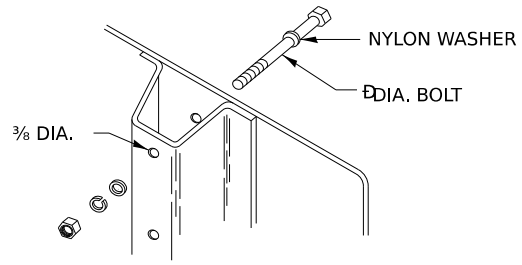


FRONT VIEW

BACK VIEW



TYPICAL SIGN



NOTE: MINIMUM OF TWO BOLTS PER POST REQUIRED.

DETAIL OF MOUNTING SIGN TO POST

NOTES

STRIPES ON THE FACE OF THE SIGN SHALL SLOPE TOWARDS THE EDGE OF PAVEMENT ON BOTH SIDES OF THE ROADWAY.

WHEN THE GUARDRAIL IS PRESENT THE DISTANCE FROM THE EDGE OF THE SIGN SHALL BE POSITIONED WITH THE FACE OF THE GUARDRAIL, AS SHOWN.

ALL MOUNTING HARDWEAR SHALL BE ALUMINUM, STAINLESS STEEL, OR ZINC OR CADMIUM PLATED STEEL AND SHALL BE INCLUDED TO THE COST OF THE INSALLATION.

PLACEMENT OF CHEVRON ALIGNMENT SIGNS ALONG THE 25 TO 1 TAPER WILL CONFORM TO THE DEPARTMENT OF TRANSPORTATION'S STANDARDS MANUAL UNDER THE SECTION FOR GUARDRAIL PLACEMENT.

ALL LEFT SIDE MARKERS SHALL BE OMITTED FOR FOUR-LANE, TWO-WAY BRIDGE APPLICATIONS.

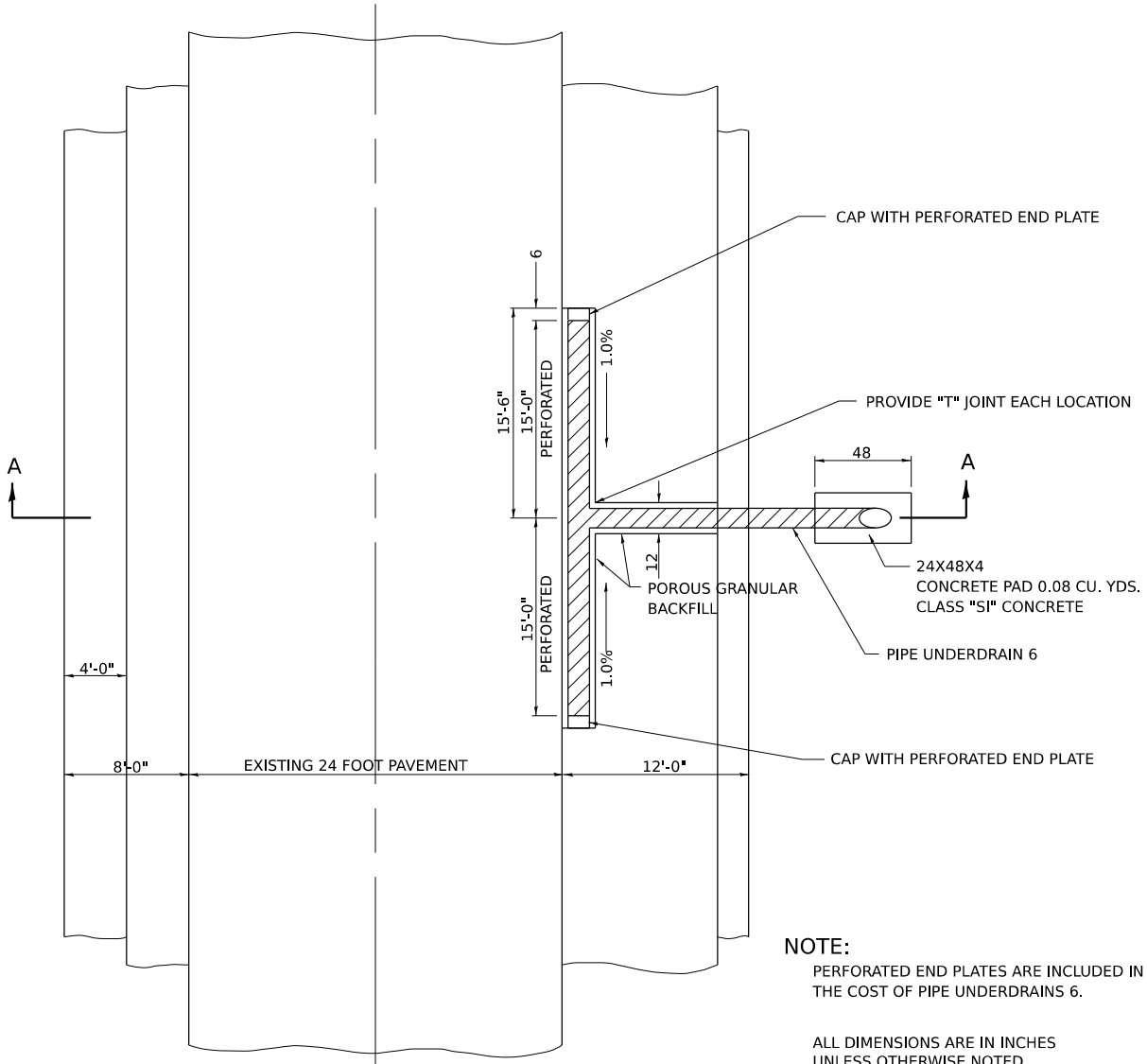
* REFER TO THE BUREAU OF TRAFFIC'S SPECIFICATIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 32pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

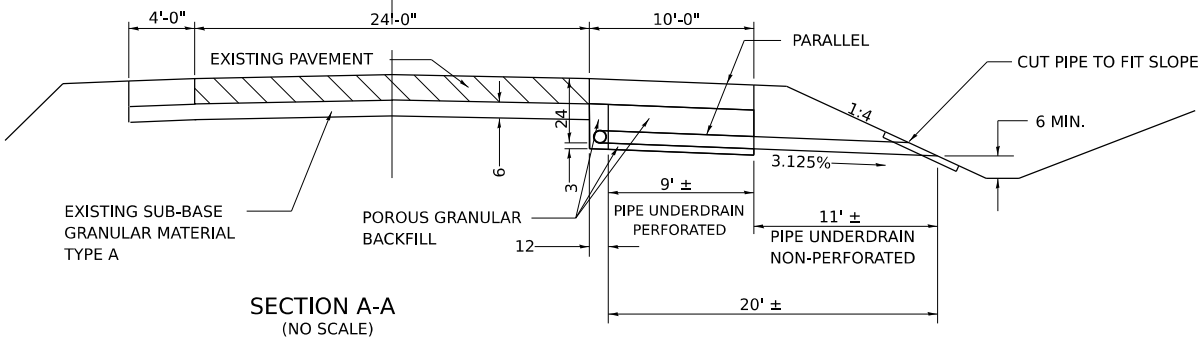
SPECIAL DRAINAGE OUTLET



NOTE:

PERFORATED END PLATES ARE INCLUDED IN THE COST OF PIPE UNDERDRAINS 6.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SECTION A-A
(NO SCALE)

MODEL: 33p12
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-14-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT

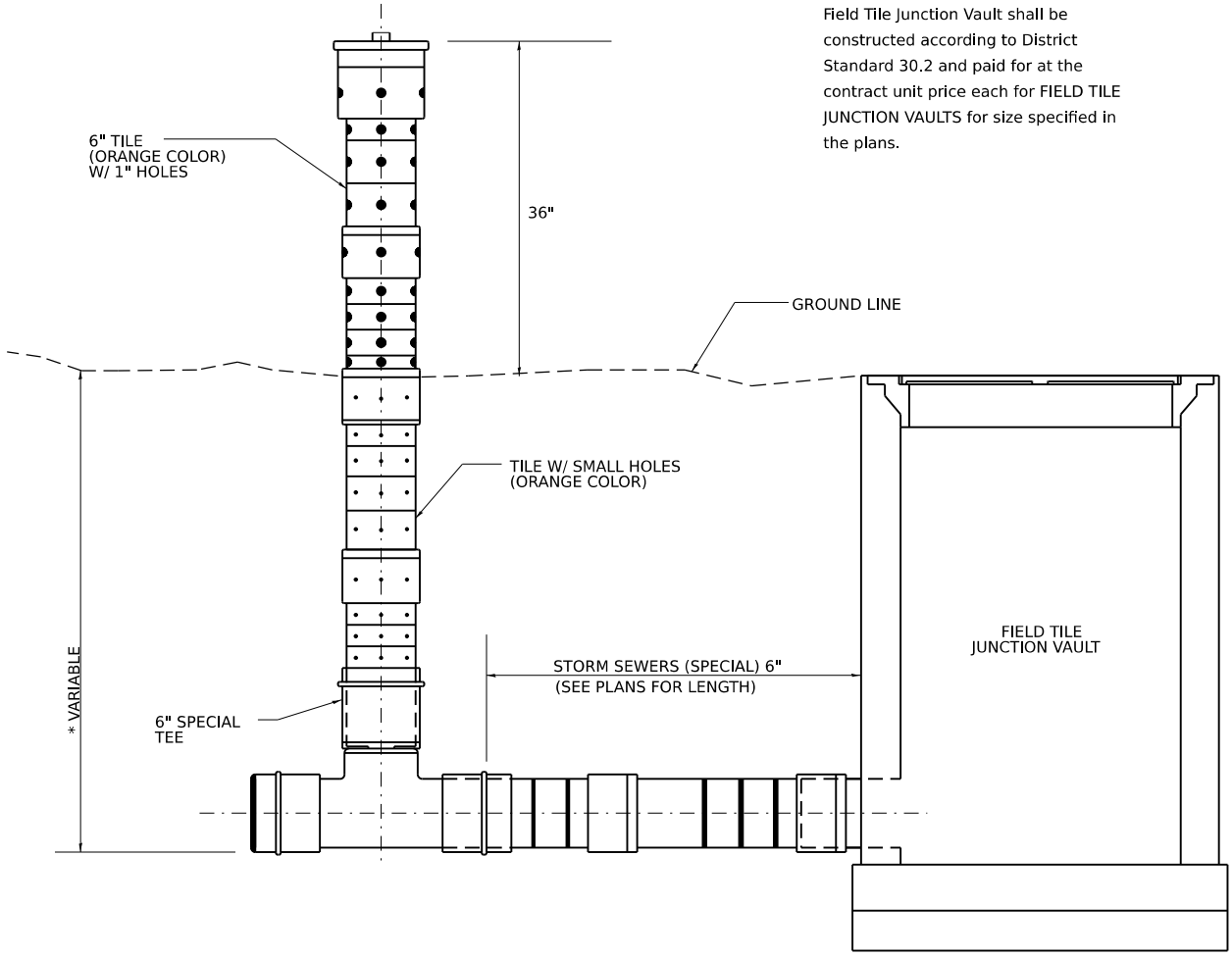
INLET STAND PIPE

Inlet Stand Pipe

Inlet Stand Pipe shall be included in the contract unit price per FOOT for STORM SEWERS (SPECIAL) 6". Which shall include the following items--one 36" above ground section with 1" holes, one variable depth below ground section with small holes, one 6" tee section, collars (if needed) and end caps (if needed) as directed by the engineer.

Storm Sewer shall be paid for at the contract unit price per foot for STORM SEWERS (SPECIAL) 6". According to Article 611.04.

Field Tile Junction Vault shall be constructed according to District Standard 30.2 and paid for at the contract unit price each for FIELD TILE JUNCTION VAULTS for size specified in the plans.

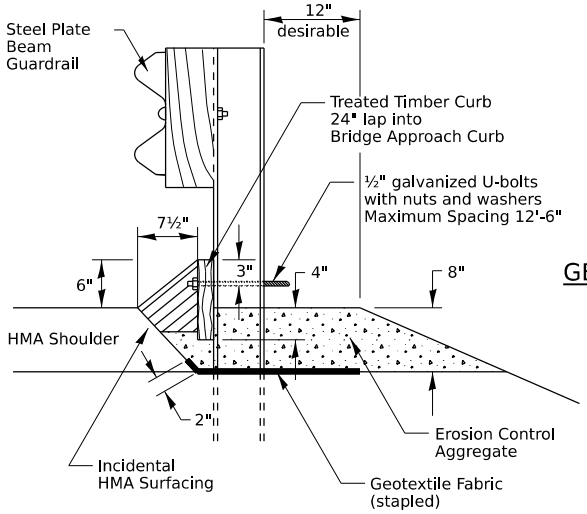


* VARIFY DEPTH IN FIELD

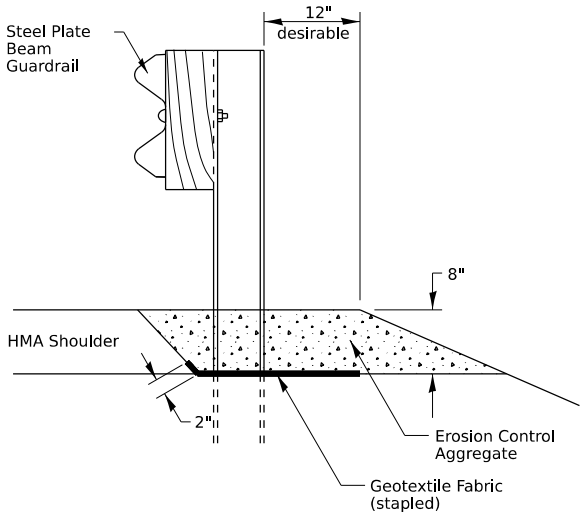
MODEL: 34pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -							
REVISED -						CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

GUARDRAIL EROSION CONTROL TREATMENTS



TYPICAL SECTION
WITH EROSION CONTROL CURB



TYPICAL SECTION
WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware, 2" x 10" treated timber boards and incidental hot-mix asphalt surfacing in front of steel plate beam guardrail in accordance with plan details.

2. Timber shall be treated in accordance with Article 1007.12 Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu.ft.

3. This work will be paid for at the contract unit price per foot for EROSION CONTROL CURB (pay code Z0020800).

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of furnishing and installing, Geotextile Fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile Fabric shall be placed with a 12" minimum overlay. A knife cut for guardrail post installation is necessary.

4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and aggregate are in place. If the guardrail is placed after the Geotextile Fabric and aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01 of the Standard Specifications.

   B. The aggregate shall meet class D quality requirements as outlined in Article 1004.01 of the Standard Specifications with the following exceptions:

      1) Revise the maximum allowable percentage of weighted average loss when the material is subjected to 5 cycles of the Sodium Sulfate Soundness Test from 25% as shown under class D of the quality chart in Article 1004.01(b) of the Standard Specifications to 40%.

      2) Revise the maximum allowable percentage of wear as determined by the Los Angeles Abrasion Method from 45% as shown under as shown under class D of the quality chart in Article 1004.01(b) of the Standard Specifications to 65%.

      3) The sum of the percentage of weighted average loss when the material is subjected to 5 cycles of the Sodium Sulfate Soundness Test: and the percentage of wear as determined by the Los Angeles Abrasion Method, shall not exceed 95%.

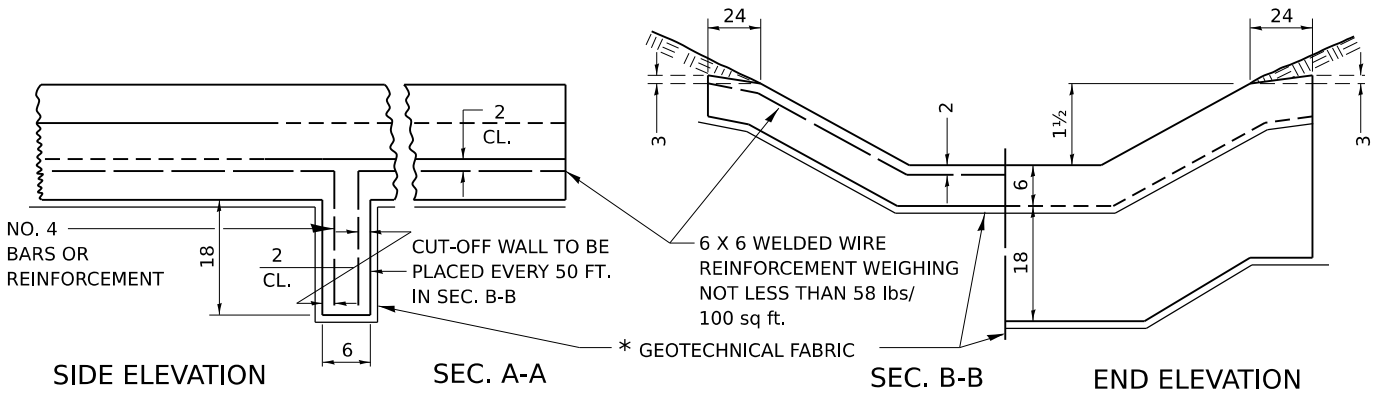
   C. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

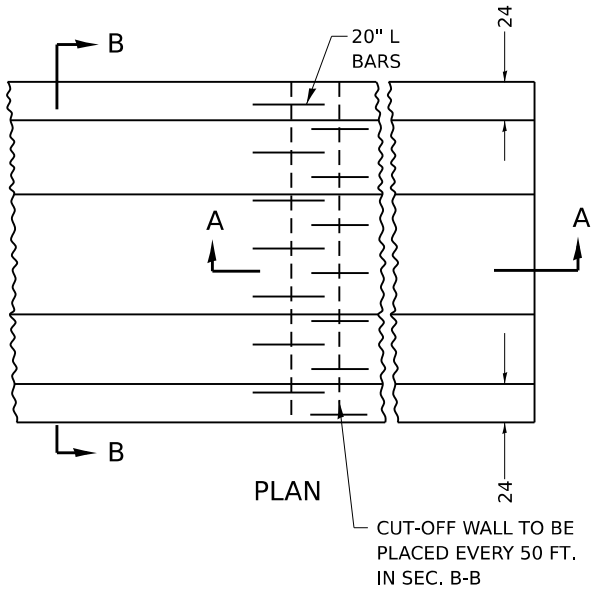
7. This work will be paid for at the contract unit price per ton for GUARDRAIL AGGREGATE EROSION CONTROL (pay code Z0001002).

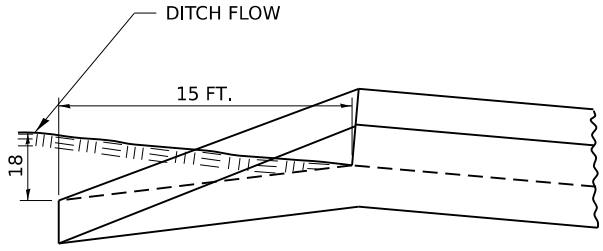
MODEL: 35pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

PAVED DITCH (SPECIAL)







SIDE ELEVATION SHOWING METHOD OF BURYING UP STREAM AND DOWN STREAM END OF PAVED DITCH.

(SEE NOTE)

NOTES:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

WELDED WIRE REINFORCEMENT SHALL BE 6 X 6 MESH, NO. 4 GAUGE, 58 lbs/100 sq ft, CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A1064.

½" PREMOULDED JOINT FILLER SHALL BE PLACED AT THE JUNCTION OF PAVED DITCH WITH ANY OTHER STRUCTURE.

CUT-OFF WALLS SHALL BE COSTRUCTED MONOLITHICALLY WITH THE PAVED DITCH.

AT THE OPTION OF THE CONTRACTOR, NO. 4 L 20 REINFORCING BARS PLACED AT 12 CENTERS LONGITUDINALLY IN PAVED DITCH AND VERTICALLY IN CUT-OFF WALLS IN LIEU OF THE WELDED WIRE FABRIC.

THE SOIL PLACED OVER THE 24 FLATTENED SECTION OF THE DITCH SHALL BE TAMPED FIRMLY. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR PAVED DITCH.

PAVED DITCH SHALL BE CONSTRUCTED IN ACCORDANCE WITH ARTICLES 606.01 THROUGH 606.13.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

* THE GEOTECHNICAL FABRIC IS INCLUDED IN THE PAVED DITCH.

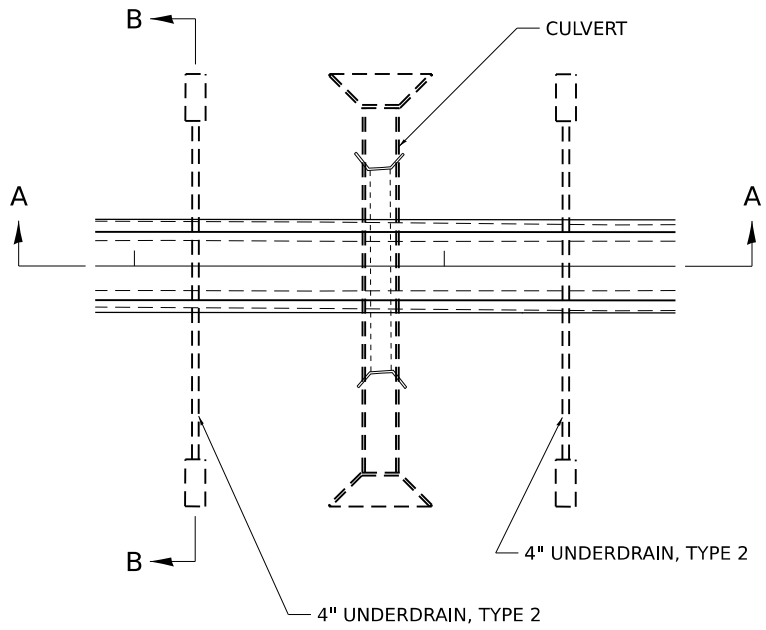
BASIS OF PAYMENT

PAVED DITCH (SPECIAL) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT MEASURED IN PLACE INCLUDING THE COST OF FURNISHING AND PLACING THE JOINT FILLER, THE WELDED WIRE REINFORCEMENT OR THE NO. 4 REINFORCING BARS, AND THE NECESSARY EXCAVATION AND DISPOSAL OF SURPLUS MATERIALS.

MODEL: 36p12
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS



NOTES:

IN SAG CONDITIONS INSTALL PIPE UNDERDRAINS, TYPE 2, 4" ON BOTH SIDES OF CULVERT.

ON HIGHWAY GRADES GREATER THAN 2% INSTALL PIPE UNDERDRAINS, TYPE 2, 4" ON THE HIGH SIDE OF THE CULVERT.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

THE UNDERDRAIN SHALL EXTEND UNTIL INTERSECTING WITH THE SIDE SLOPES. THE PIPES SHALL DRAIN INTO CONCRETE HEADWALLS. (SEE ARTICLE 601.05 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD 601101).

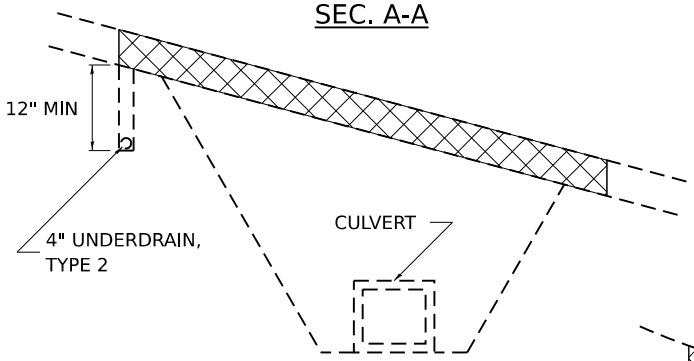
THE UNDERDRAIN SHALL BE A MINIMUM OF 12" BELOW THE EXISTING PAVEMENT.

PIPE UNDERDRAINS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS, TYPE 2, 4".

CONCRETE HEADWALLS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR CONCRETE HEADWALLS FOR PIPE DRAINS.

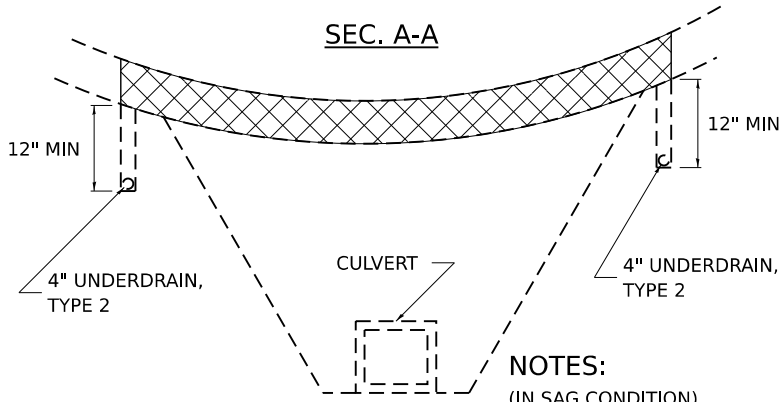
A DELINEATOR SHALL BE PLACED AT EACH CONCRETE HEADWALL. THESE BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS.

SEC. A-A



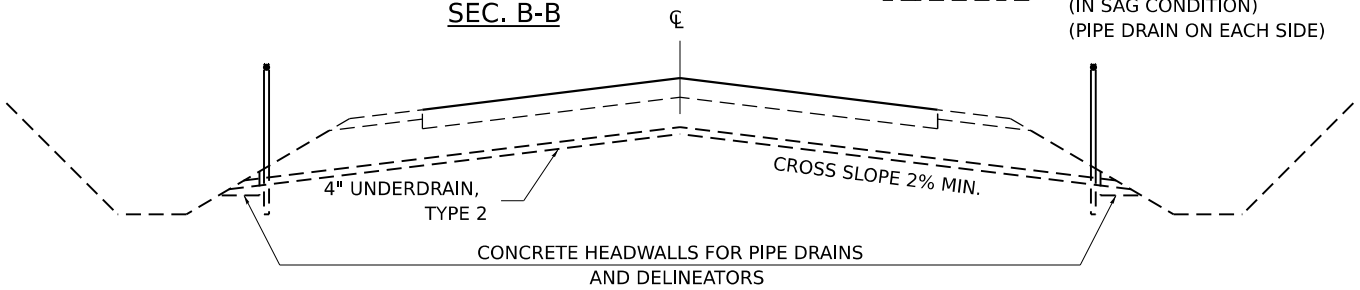
NOTES:
(HIGHWAY GRADE GREATER THAN 2%)

SEC. A-A



NOTES:
(IN SAG CONDITION)
(PIPE DRAIN ON EACH SIDE)

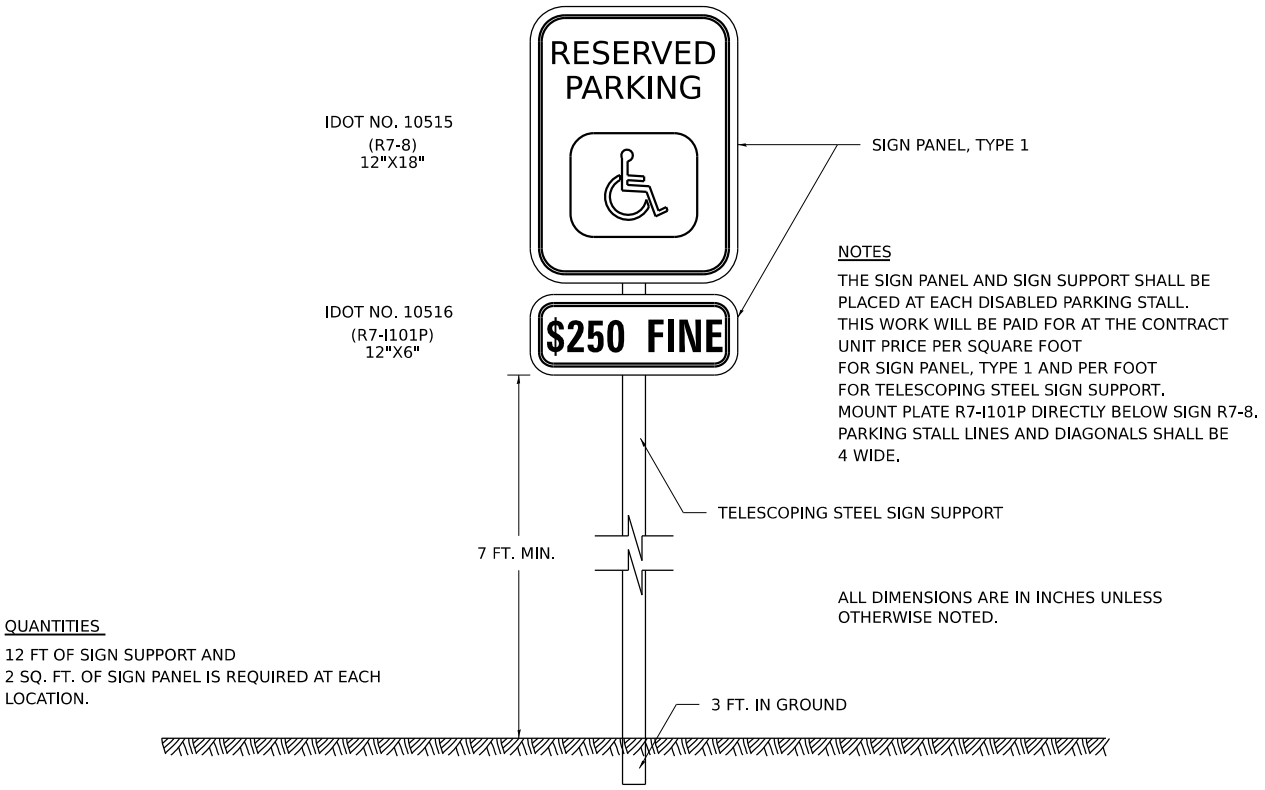
SEC. B-B



REVISED - 8-03-17	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 7-13-16						
REVISED - 1-05-16				CONTRACT NO.		
REVISED - 6-27-14	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: 37p12
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

RESERVED PARKING SIGN DETAIL



NOTES

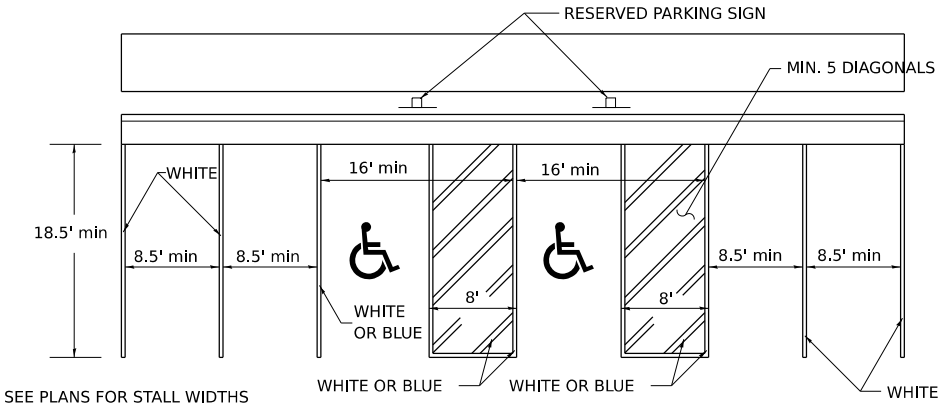
THE SIGN PANEL AND SIGN SUPPORT SHALL BE PLACED AT EACH DISABLED PARKING STALL. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR SIGN PANEL, TYPE 1 AND PER FOOT FOR TELESCOPING STEEL SIGN SUPPORT. MOUNT PLATE R7-I101P DIRECTLY BELOW SIGN R7-8. PARKING STALL LINES AND DIAGONALS SHALL BE 4 WIDE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

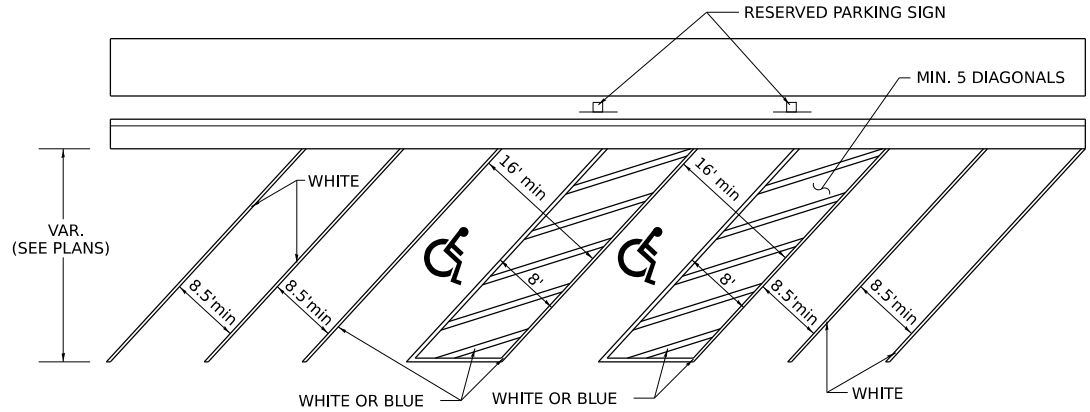
QUANTITIES

12 FT OF SIGN SUPPORT AND 2 SQ. FT. OF SIGN PANEL IS REQUIRED AT EACH LOCATION.

DISABLED PARKING STRIPING



PARKING ANGLE = 90°



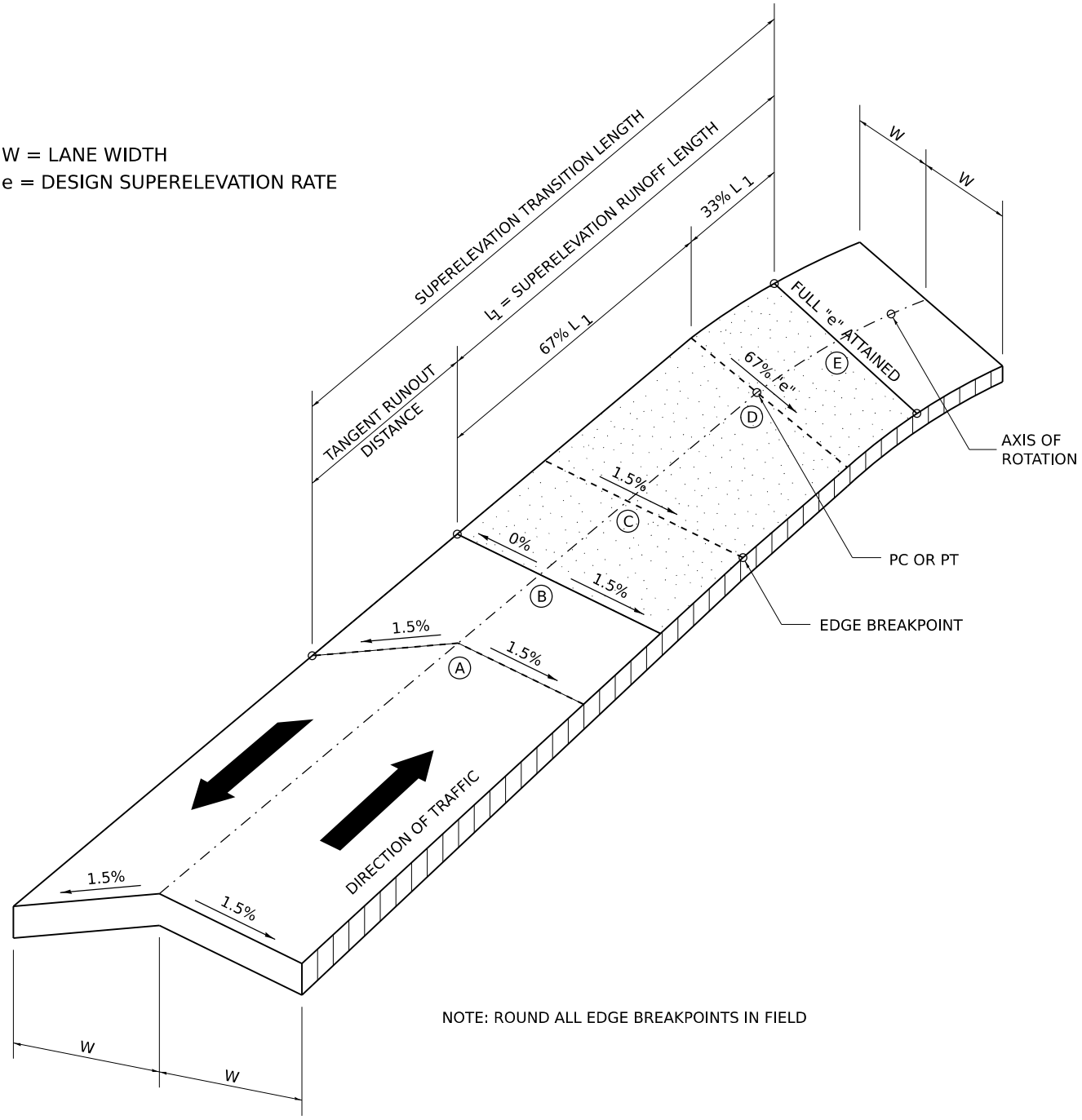
LESS THAN 90° PARKING ANGLE

REVISED - 4-19-18	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 1-05-16						
REVISED - 6-27-14				CONTRACT NO.		
REVISED - 10-14-11	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

MODEL: 44pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

SUPERELEVATION TRANSITION ON TWO–LANE HIGHWAY

W = LANE WIDTH
e = DESIGN SUPERELEVATION RATE



NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD

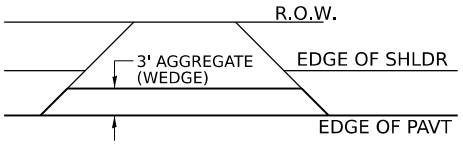
TRANSITION CURVE TABLE

CURVE PI STA.	SUPERELEVATION "e"	W	SUPERELEVATION TRANSITION LENGTH	TANGENT RUNOUT DISTANCE	SUPERELEVATION RUNOFF LENGTH

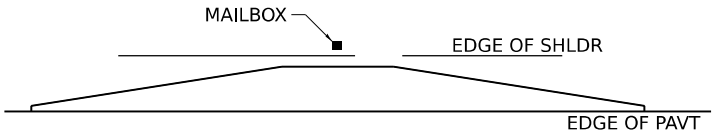
MODEL: 45pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 11-09-06	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -						
REVISED -					CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT

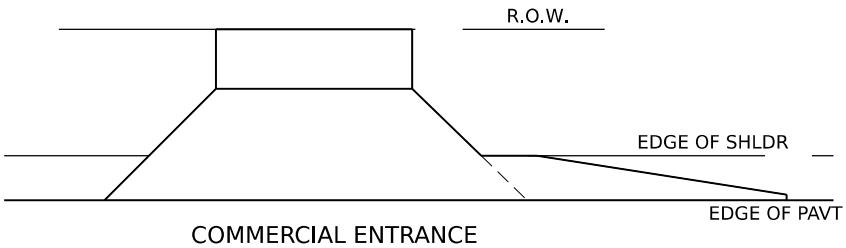
HOT–MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR SINGLE LIFT (SMART) RESURFACING PROJECTS



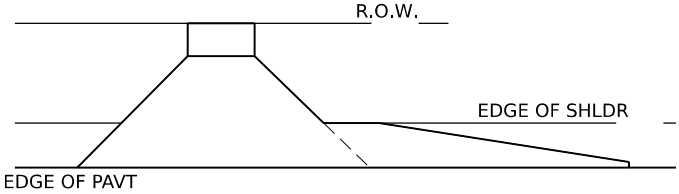
FIELD ENTRANCE



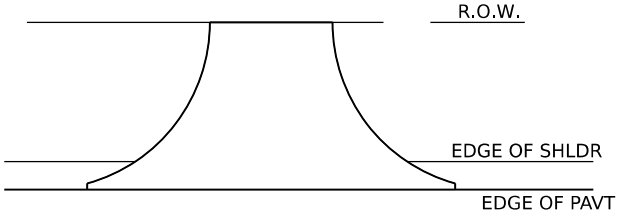
MAILBOX TURNOUT



COMMERCIAL ENTRANCE



PRIVATE ENTRANCE



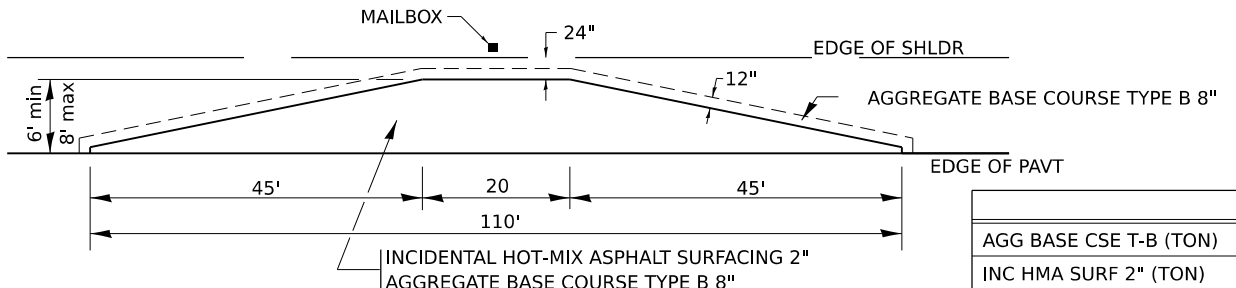
SIDE ROAD RETURN

NOTE: EXISTING HMA PE's, CE's, SR's, & MB TURNOUTS
Place 1 1/2" Incidental Hot-Mix Asphalt Surfacing on entrance to conform to the existing configuration.

EXISTING AGG. PE's & CE's
Place 2" Incidental Hot-Mix Asphalt Surfacing on existing entrance to conform to the present configuration.

EXISTING AGG. SIDEROADS
Place 3" Incidental Hot-Mix Asphalt Surfacing on sideroad to conform to the present configuration.

EXISTING AGG. MAILBOX TURNOUTS
Existing Agg. Mailbox Turnouts shall be constructed as shown below.



	6'	8'
AGG BASE CSE T-B (TON)	24.5	31.1
INC HMA SURF 2" (TON)	7.3	9.8
BIT PRIME COAT (POUND)	120	161

MODEL: 46pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

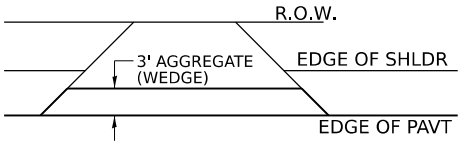
REVISED - 1-05-16
REVISED - 7-21-15
REVISED - 10-21-08
REVISED -

REGION 2 / DISTRICT 2 STANDARD

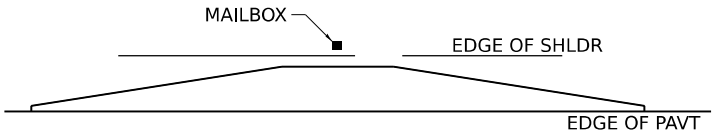
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

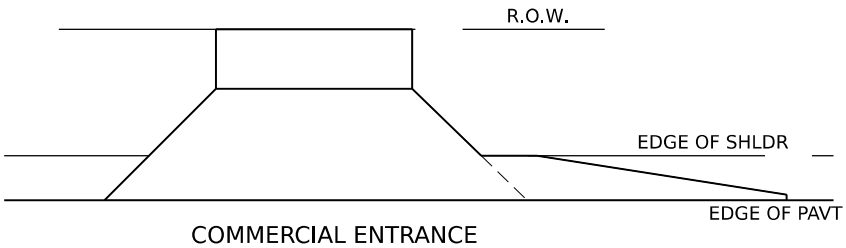
HOT–MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR TWO LIFT (3P) RESURFACING PROJECTS



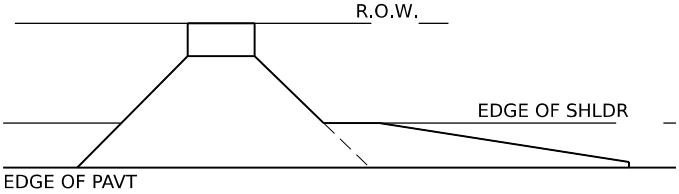
FIELD ENTRANCE



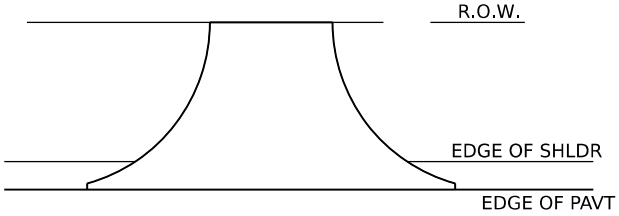
MAILBOX TURNOUT



COMMERCIAL ENTRANCE



PRIVATE ENTRANCE



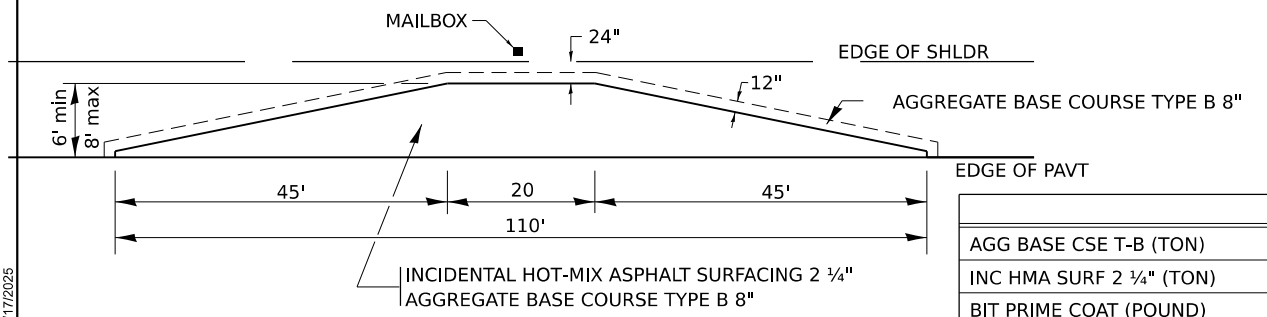
SIDE ROAD RETURN

NOTE: EXISTING HMA PE's, CE's, SR's, & MB TURNOUTS
Place 2 ¼" Incidental Hot-Mix Asphalt Surfacing on entrance to conform to the existing configuration.

EXISTING AGG. PE's & CE's
Place 2 ¼" Incidental Hot-Mix Asphalt Surfacing on existing entrance to conform to the present configuration.

EXISTING AGG. SIDEROADS
Place 3" Incidental Hot-Mix Asphalt Surfacing on sideroad to conform to the present configuration.

EXISTING AGG. MAILBOX TURNOUTS
Existing Agg. Mailbox Turnouts shall be constructed as shown below.

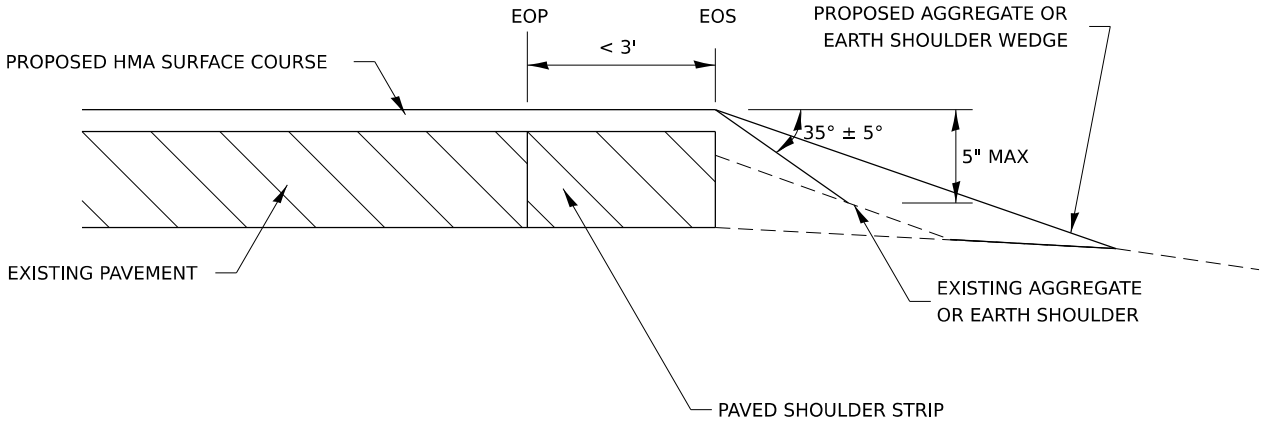


	6'	8'
AGG BASE CSE T-B (TON)	24.5	31.1
INC HMA SURF 2 ¼" (TON)	8.2	11.0
BIT PRIME COAT (POUND)	120	161

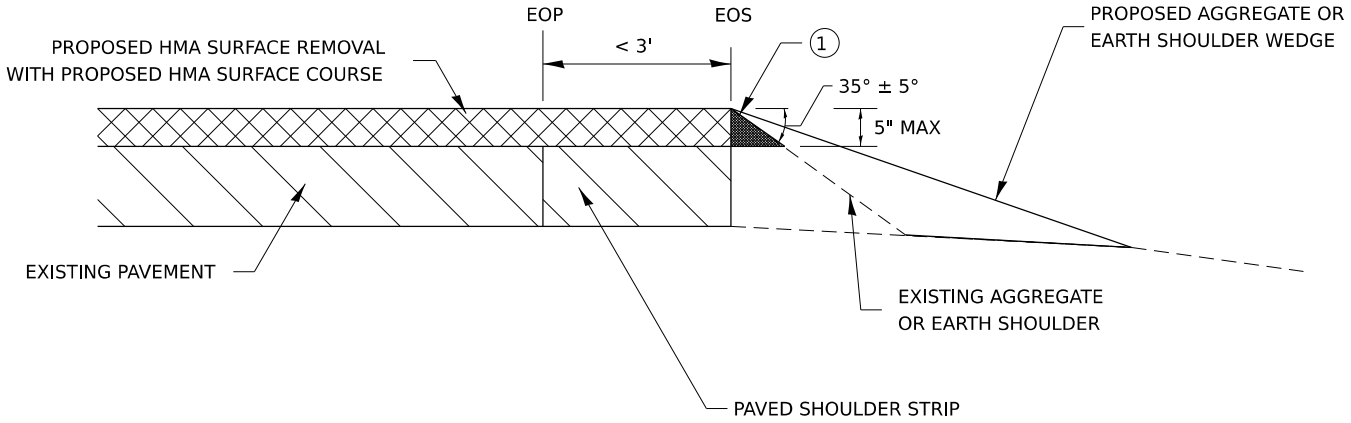
MODEL: 47pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 7-21-15						
REVISED - 6-27-14					CONTRACT NO.	
REVISED - 10-21-08	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT

SAFETY EDGE (SMART PROJECT)



NO MILLING: ADJACENT SHOULDER FLUSH
WITH OR LOWER THAN EXISTING PAVEMENT



MILLING: WITH ADJACENT SHOULDER FLUSH WITH
OR HIGHER THAN MILLED SURFACE

NOTES :

THE DEVICE WHICH FORMS THE SAFETY EDGE SHALL BE MOUNTED ON THE PAVER SCREED AGAINST THE END GATE AND SHALL BE REMOVABLE OR BE ABLE TO BE LIFTED WHEN NOT IN USE. THE DEVICE SHALL BE DESIGNED TO MAINTAIN CONTACT WITH SURFACE OF THE SHOULDER AND ALLOW AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. THE DEVICE SHALL ALSO CONSTRAIN THE HMA MATERIAL AND INCREASE THE CONSOLIDATION OF THE EXTRUDED PROFILE. THE USE OF A CONVENTIONAL SINGLE PLATE STRIKE-OFF WILL NOT BE ALLOWED.

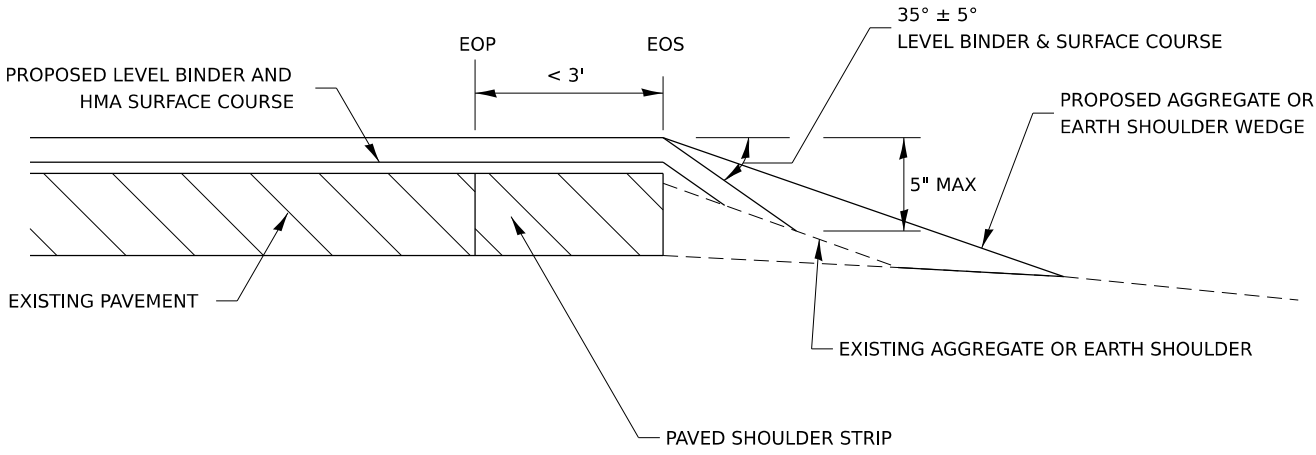
ROLLERS WILL NOT BE ALLOWED ON THE SLOPED FACE OF THE SAFETY EDGE.

(1) PRIOR TO THE PLACEMENT OF THE HMA SAFETY EDGE, IF THE ADJACENT AGGREGATE OR EARTH SHOULDER IS HIGHER THAN THE MILLED SURFACE, THE AREA REQUIRED FOR PLACEMENT OF THE SAFETY EDGE SHALL BE BROUGHT FLUSH WITH THE MILLED SURFACE IN A MANNER APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE OF THE TYPE SPECIFIED.

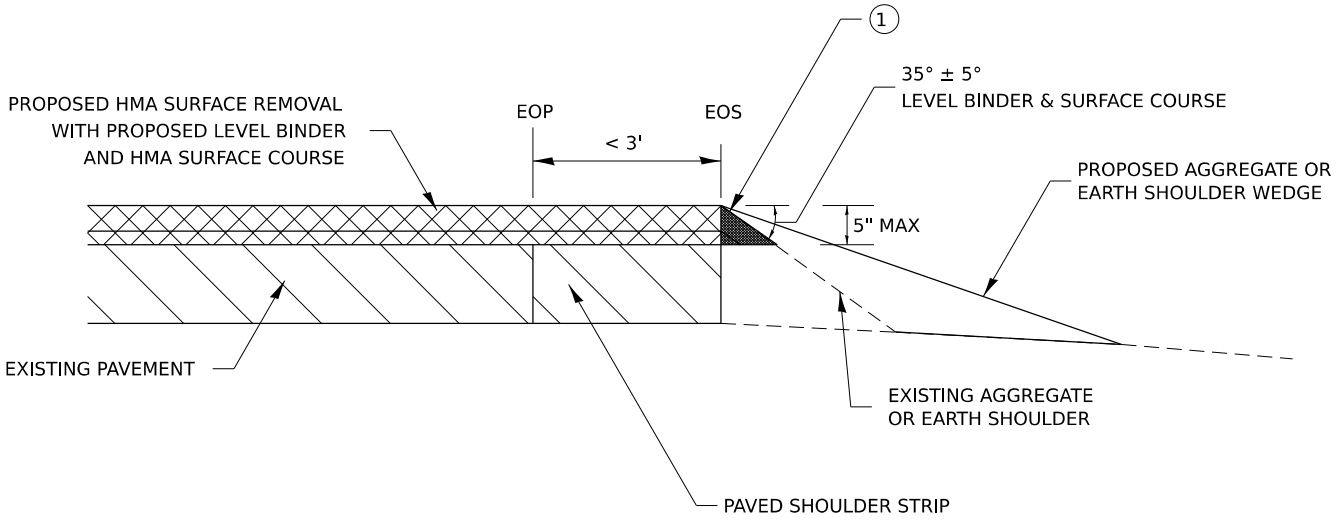
MODEL: 48pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-11-13										
REVISED -								CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

SAFETY EDGE (3P PROJECTS)



NO MILLING: ADJACENT SHOULDER FLUSH
WITH OR LOWER THAN EXISTING PAVEMENT



MILLING: WITH ADJACENT SHOULDER FLUSH
WITH OR HIGHER THAN MILLED SURFACE

NOTES :

THE DEVICE WHICH FORMS THE SAFETY EDGE SHALL BE MOUNTED ON THE PAVER SCREED AGAINST THE END GATE AND SHALL BE REMOVABLE OR BE ABLE TO BE LIFTED WHEN NOT IN USE. THE DEVICE SHALL BE DESIGNED TO MAINTAIN CONTACT WITH SURFACE OF THE SHOULDER AND ALLOW AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. THE DEVICE SHALL ALSO CONSTRAIN THE HMA MATERIAL AND INCREASE THE CONSOLIDATION OF THE EXTRUDED PROFILE. THE USE OF A CONVENTIONAL SINGLE PLATE STRIKE-OFF WILL NOT BE ALLOWED.

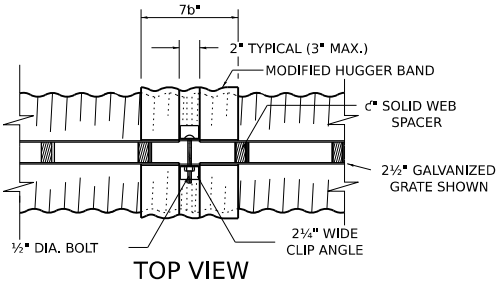
ROLLERS WILL NOT BE ALLOWED ON THE SLOPED FACE OF THE SAFETY EDGE.

(1) PRIOR TO THE PLACEMENT OF THE HMA SAFETY EDGE, IF THE ADJACENT AGGREGATE OR EARTH SHOULDER IS HIGHER THAN THE MILLED SURFACE, THE AREA REQUIRED FOR PLACEMENT OF THE SAFETY EDGE SHALL BE BROUGHT FLUSH WITH THE MILLED SURFACE IN A MANNER APPROVED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE OF THE TYPE SPECIFIED.

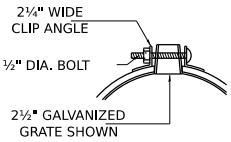
MODEL: 49pl2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-11-13									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT

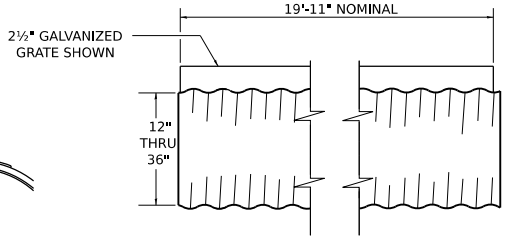
SLOTTED DRAIN PIPE FOR TYPE A GUTTER (SPECIAL)



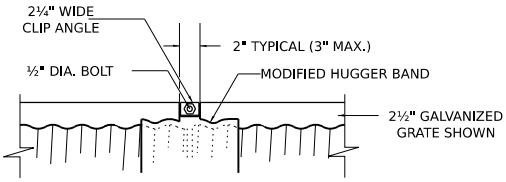
TOP VIEW



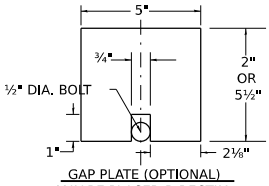
END VIEW



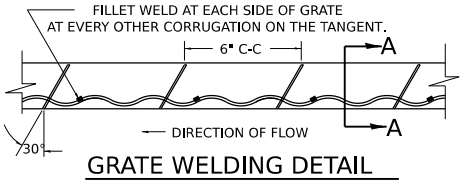
TYPICAL PIPE SECTION



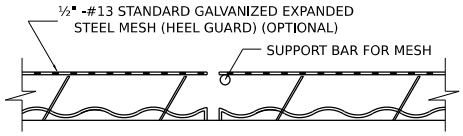
SIDE VIEW



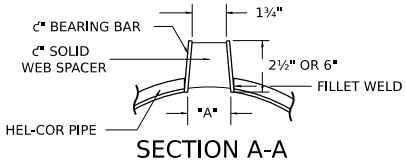
GAP PLATE (OPTIONAL)
MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING.



GRATE WELDING DETAIL



SECTION B-B



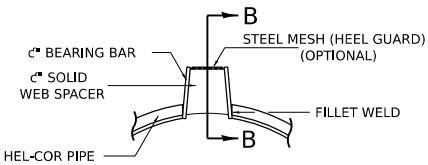
SECTION A-A

STANDARD DETAIL

STANDARD SIZES						
GAGE OF PIPE	DIAMETER OF PIPE					
	12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X
14	X	X	X	X	X	X
12	N.A.	N.A.	N.A.	N.A.	X	X

GRATE TYPE	"A"	
VERT	2-1/2"	1-3/4"
VERT	6"	1-3/4"
TRAP	2-1/2"	2-1/4"
TRAP	6"	3"

VERT = VERTICAL
TRAP = TRAPIZOIDAL



SECTION A-A

DETAIL WITH MESH

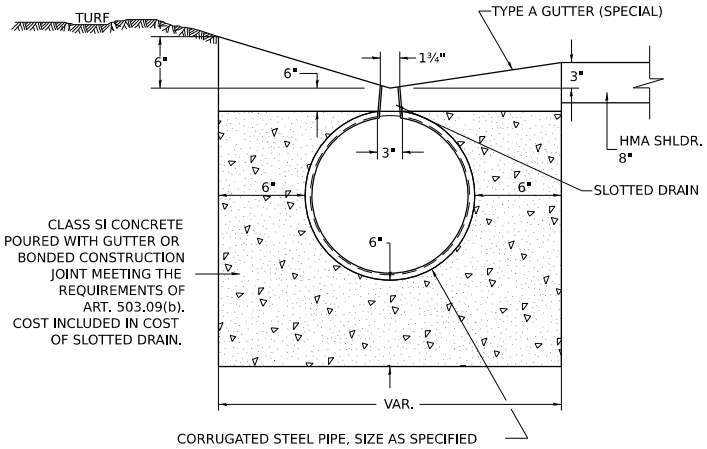
(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

~~SLOTTED DRAIN NOTES~~

1. GRATING IS AVAILABLE IN DEPTHS OF 2½" AND 6".
2. VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
3. FOR 6" VERTICAL & TRAPIZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
5. REFERENCE CONTECH BAND MANUAL DWG. NO. 1008466 FOR BAND DETAILS.

MANUFACTURING TOLERANCES

1. VERTICAL BOW ± 3/8"
2. HORIZONTAL BOW ± 5/8"
3. TWIST ± 1/2"



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

NOTES

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS. BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE. PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED. THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET. THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE.

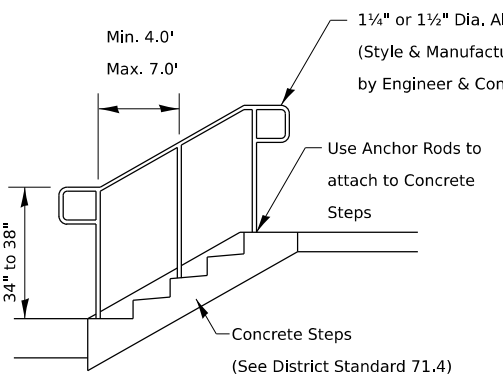
THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M-36/ASTM A 760. THE CMP SHALL BE GALVANIZED OR ALUMINIZED STEEL TYPE 2. STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO M-111. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN PIPE, AND SHALL INCLUDE ELBOWS.

USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING GUTTER CONSTRUCTION ON THE UPSTREAM END OF PIPE.

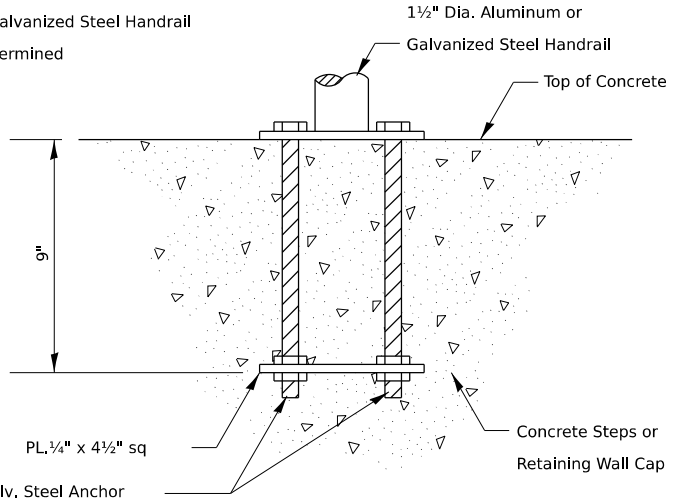
MODEL: 61p2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 6-27-14						
REVISED - 10-14-11				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

PIPE HANDRAILS FOR STEPS

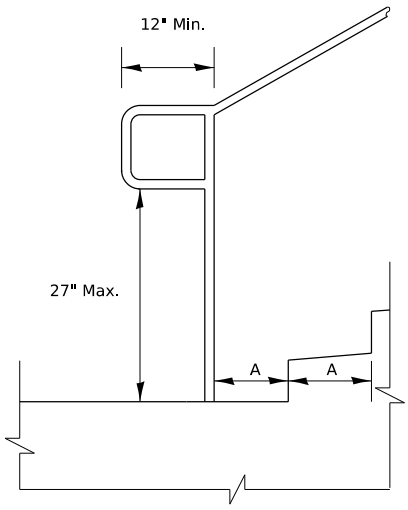


HANDRAIL FOR CONCRETE STEPS

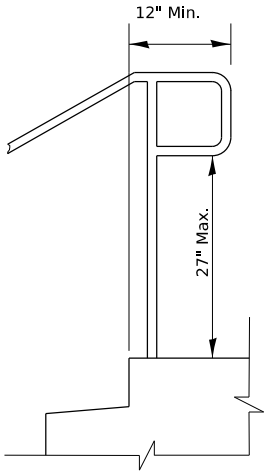


ANCHOR ROD DETAIL

(Included in the cost of Hand or Safety Rail)



Extension at Bottom of Run Detail



Extension at Top of Run Detail

Notes:

Stairways shall have continuous handrails both sides of all stairs.

The inside handrail on switchback or dogleg stairs shall always be continuous.

Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or obstructions.

Ends of handrail shall be either rounded or returned smoothly to floor, wall, or post.

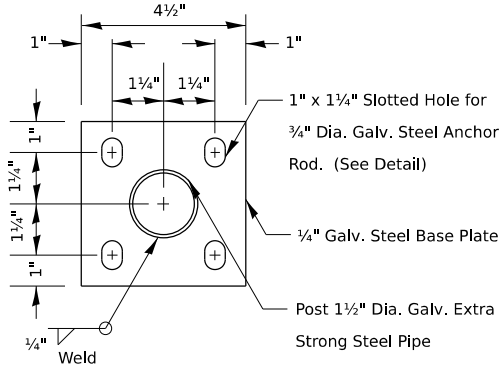
Hand & safety rails shall not rotate within their fittings.

The clear space between hanrails and any wall shall be 1½"

Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30, or 1006.34.

The diameter of the gripping surface of the handrail shall be 1-1/4" to 1-1/2"

This work shall be paid for at the contract unit price per FOOT for PIPE HANDRAIL.



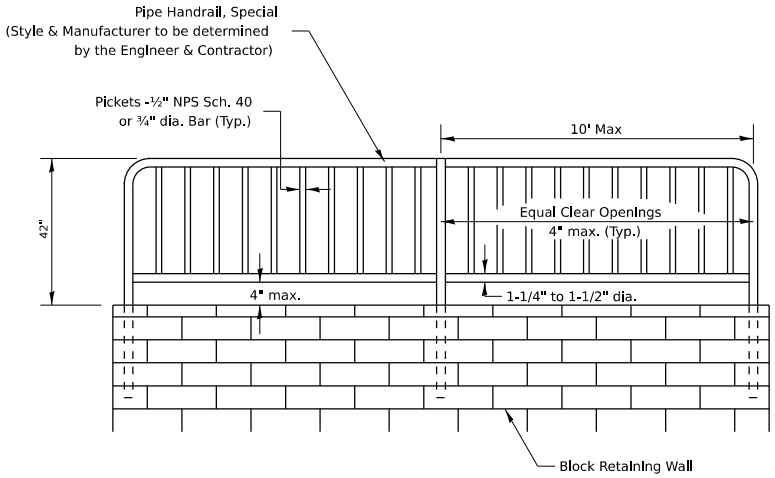
POST BASE PLATE DETAIL

(Included in the cost of Hand or Safety Rail)

MODEL: 63p2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

PIPE HANDRAIL, SPECIAL – FOR RETAINING WALLS



PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL

(See details for Installation options)

Notes:

Gripping surfaces shall be uninterrupted by construction elements, or obstructions.

Ends of handrail shall be rounded.

Handrail shall not rotate within their fittings.

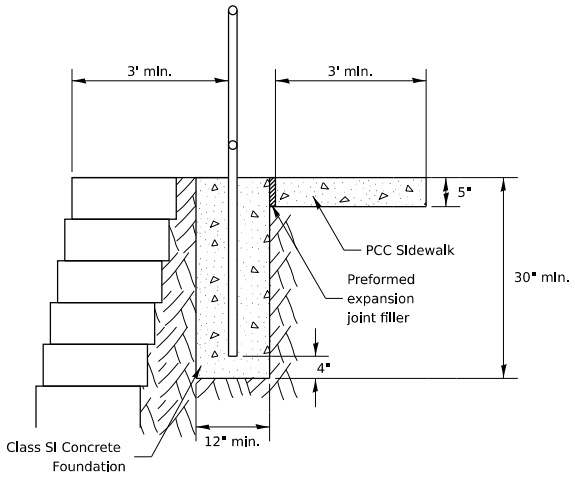
Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30, or 1006.34.

The diameter of the gripping surface of the handrail shall be 1-1/4" to 1-1/2"

Handrail required when wall height difference is 4' or greater

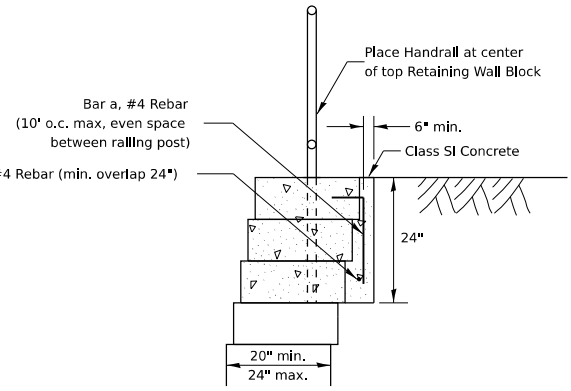
Drilling of blocks will be necessary for reinforcement placement.

This work shall consist of furnishing and erecting Handrails as listed above and according to this detail. This work shall be paid for at the contract UNIT price per FOOT for PIPE HANDRAIL, SPECIAL.



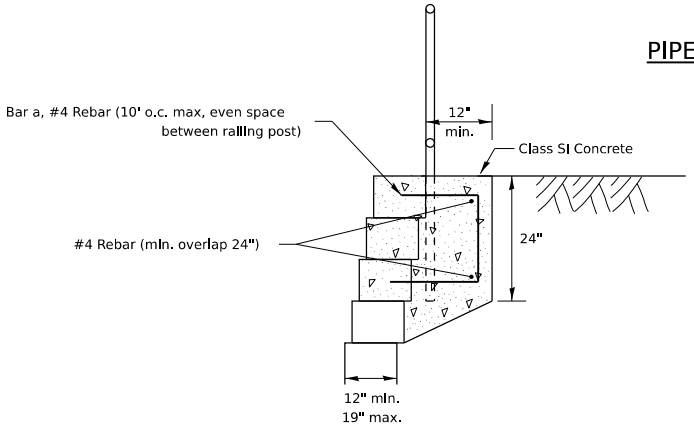
PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL

(Option 1)



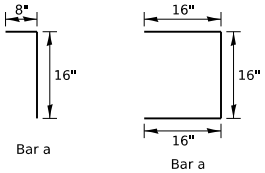
PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL

(Option 2-Block depth greater than 20")



PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL

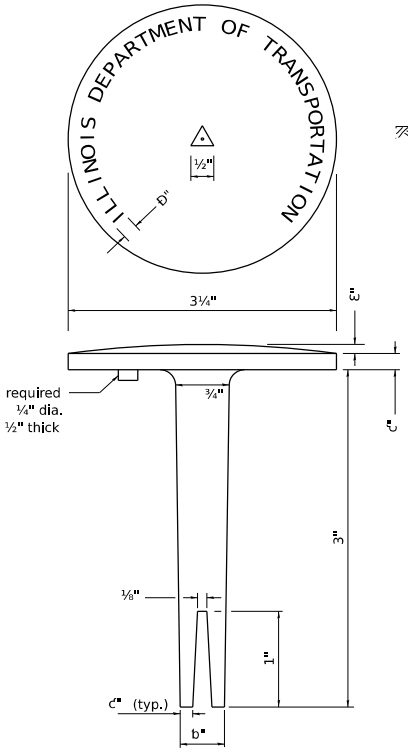
(Option 3 - Block depth 12" to 19")



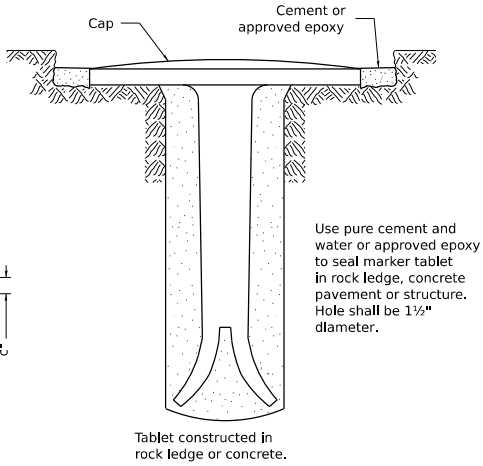
MODEL: 64pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 12-03-14							
REVISED - 2-01-10					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

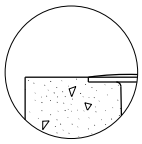
PERMANENT SURVEY MARKERS, TYPE II



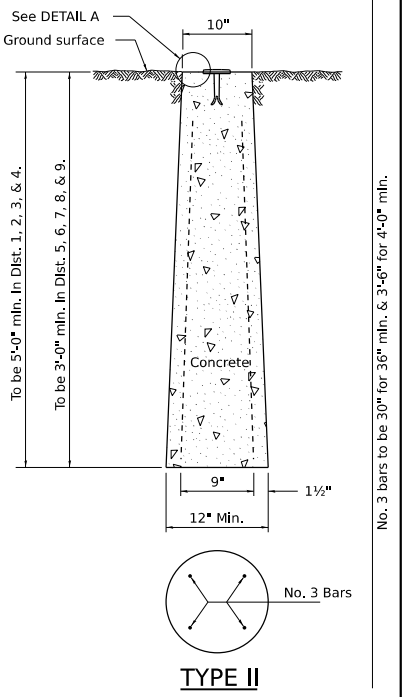
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A

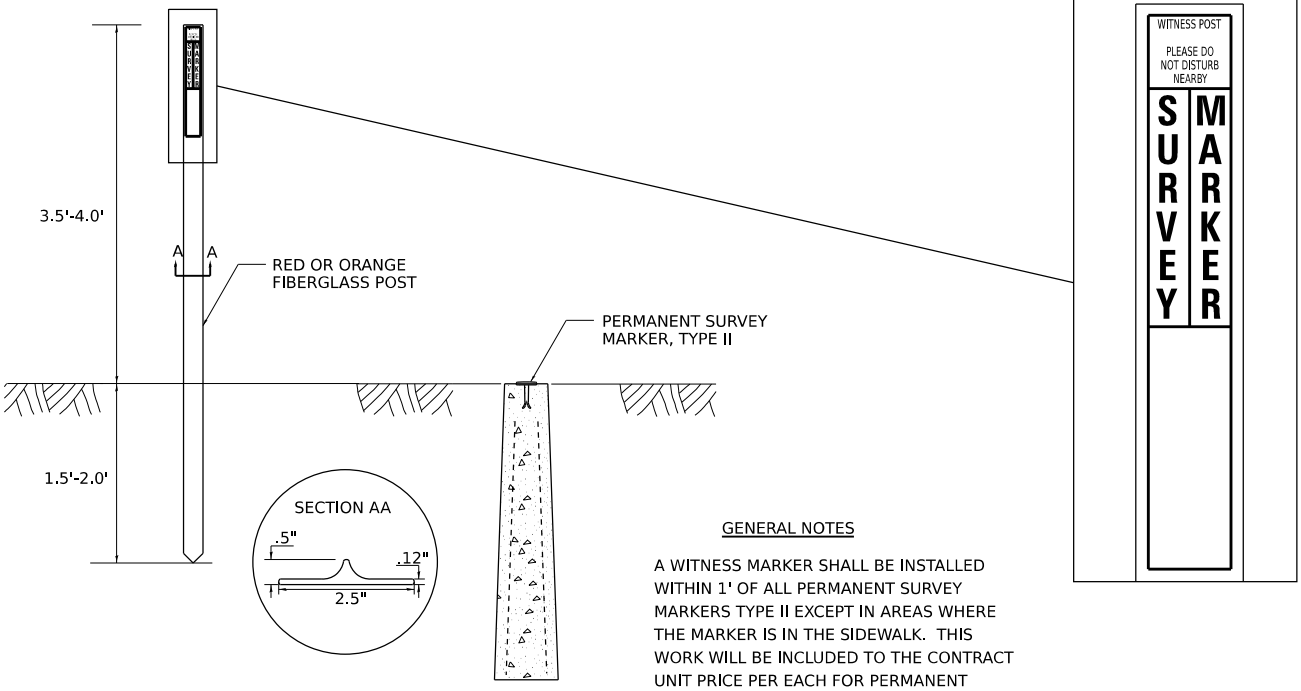


TYPE II

CAST-IN-PLACE MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



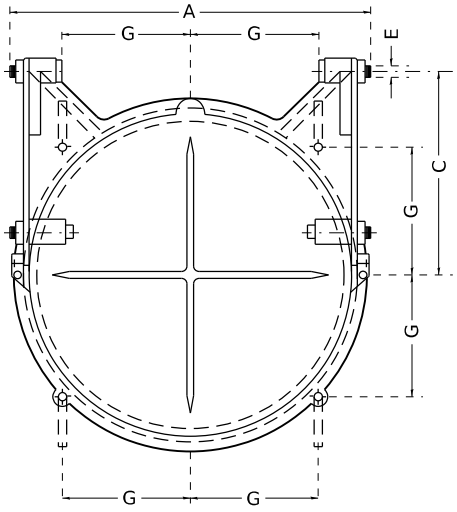
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

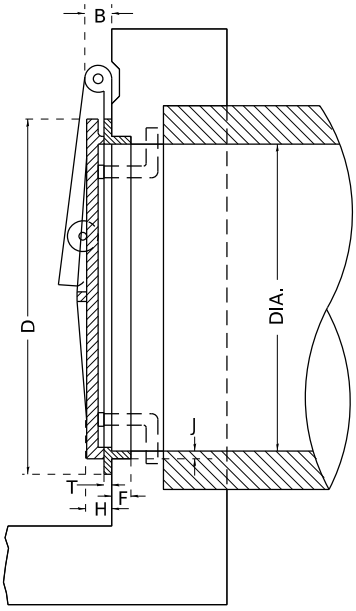
MODEL: 66pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

AUTOMATIC FLAP GATE



FRONT ELEVATION



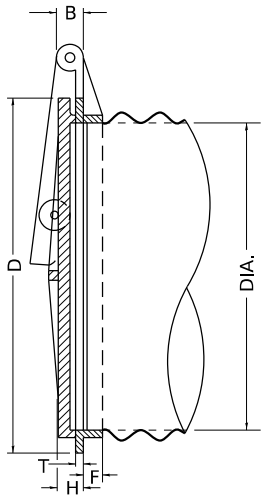
SECTION

IT IS INTENTED THAT THE AUTOMATIC FLAP GATES SHALL BE A COMMERCIAL PRODUCT PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL OR OTHER SUITABLE MATERIALS. THE DESIGN MAY DIFFER FROM THE DRAWING IF IT WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE WATER PRESSURE AT THE INSTALLATION LOCATION. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF AUTOMATIC FLAP GATES SHALL REFER TO THE DIAMETER OF THE OUTLET PIPE OR OPENING.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR FLAP GATE OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND COMPLETE INSTALLATION.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SECTION SHOWING METHOD OF APPLICATION TO CORRUGATED METAL PIPE

TABLE OF DIMENSIONS

DIAM	A	B	C	D	E	F	G	H	J	T
8	10 ¾	1 ⅜	5 đ	10	½	1 ⅛	3 đ	1 ¼	⅜	⅜
10	12 ¾	1 ⅜	7 ⅛	12 ¼	½	1 ⅛	4 ⅜	1 ½	½	Ɗ
12	14 ¾	1 ⅜	8 ½	14 ½	½	1 ⅛	5 ⅛	1 ½	½	½
14	17 ¼	1 ⅜	9 ⅞	16 ¾	½	1 ¼	5 Ǝ	1 ½	½	đ
15	17 ¾	1 ⅜	10 ⅝	17 ¾	½	1 ¼	6 ¼	1 ½	½	đ
16	19 ¼	1 ⅜	11 ¼	18 ¾	½	1 ¼	6 ⅝	1 ½	½	đ
18	22 ¼	2	12 ⅝	21	¾	1 đ	7 Ɗ	1 ¾	đ	đ
20	24 ¾	2	14 ⅛	23 ¾	¾	1 ⅜	8 ¼	1 ¾	⅝	⅝
21	25 ¼	2	14 ⅞	24 ¼	¾	1 ⅜	8 đ	1 ¾	⅝	⅝
24	28 ¼	2	17	27 ½	¾	1 ½	9 ¾	1 ¾	⅝	⅝
30	35 ¼	2 ½	20 ½	34	1	1 đ	12	2	1 Ć	⅝
36	41 ½	2 ½	25	40 ⅞	1	2 Ć	14 Ɗ	2 ¼	1 ⅛	đ
42	47 ½	2 ½	29 ¾	47	1	2 Đ	16 ⅝	2 ¼	1 ⅛	¾
48	53 ½	2 ½	34	54	1	2 ¾	19 Ć	2 ¼	1 ⅜	¾
54	60 ¾	2 ½	38	62 ¼	1 ¼	2 ¾	22	3	1 ½	⅞
60	67	2 ½	42	68 ½	1 ¼	2 ¾	24 ¼	3	1 ½	Ǝ
66	73 ⅜	2 ½	47	75	1 ¼	2 ⅞	26 ½	3	1 ½	1
72	79	2 ½	51	82	1 ¼	3	29	3	1 ½	1
78	86	2 ½	55 ¼	88 ¾	1 ¼	3 ½	31 ⅜	3	1 ⅝	1 ⅛
84	92 ½	3 ½	59 ½	95 ½	1 ½	3 ½	33 ¾	3	1 ¾	1 ¼

MODEL: 73pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

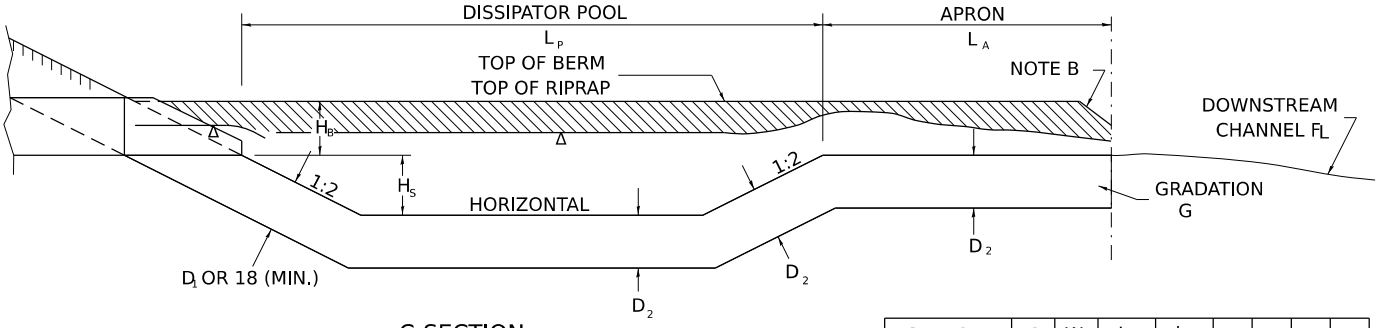
REVISED - 10-14-11
REVISED -
REVISED -
REVISED -

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

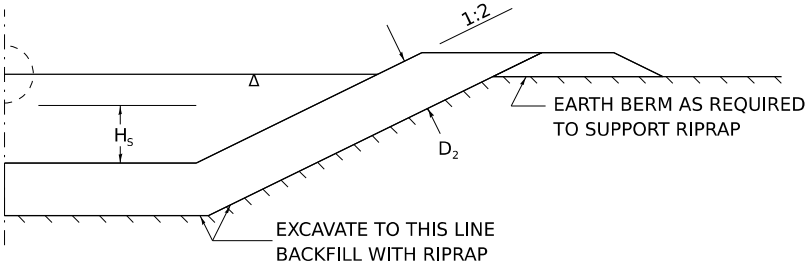
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

RIPRAPPED CULVERT ENERGY BASIN



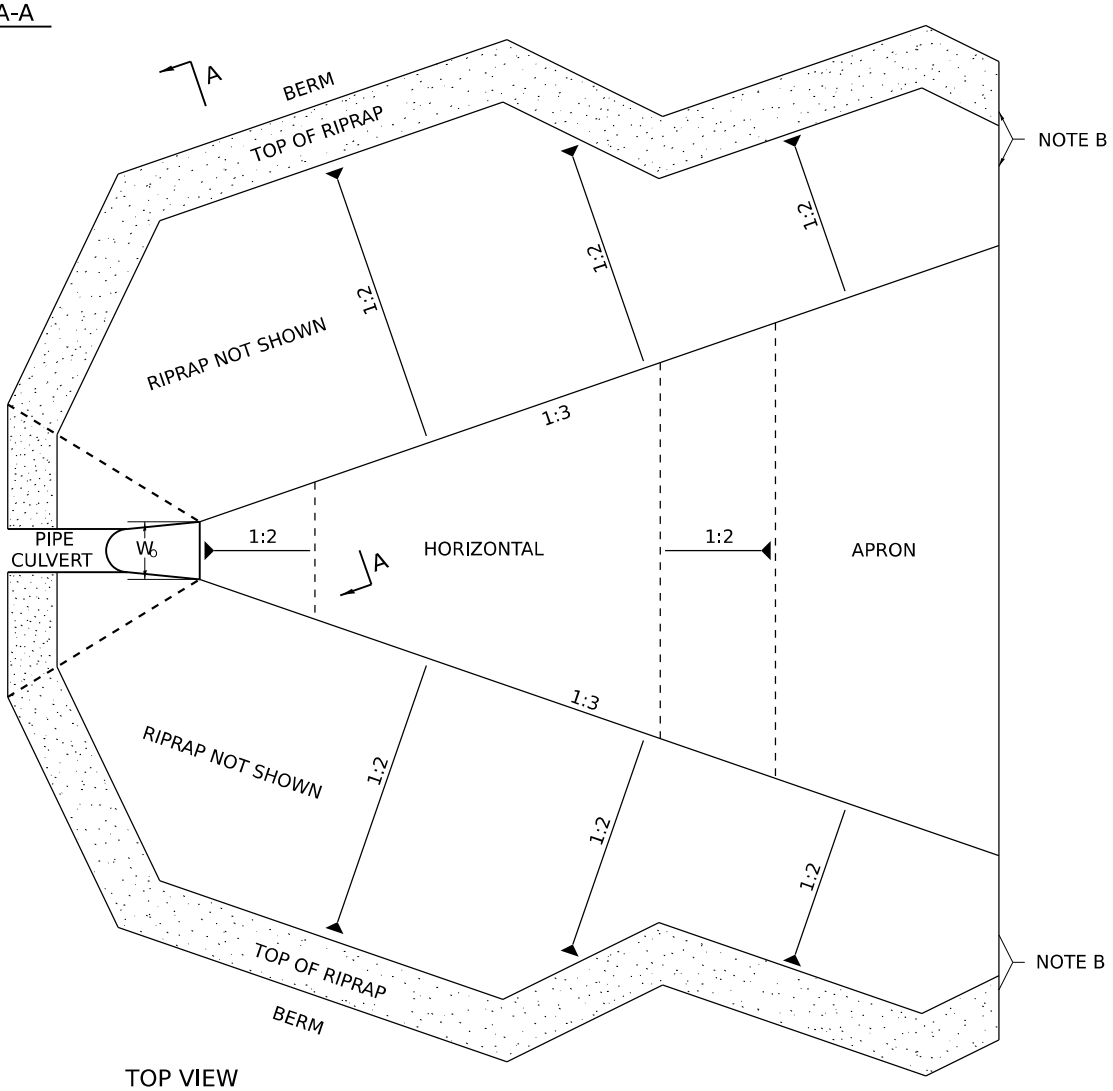
℄ SECTION

STATION	G	W_O	L_P	L_A	H_S	H_B	D_1	D_2



SECTION A-A

NOTE B: WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL.



TOP VIEW

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-14-11						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

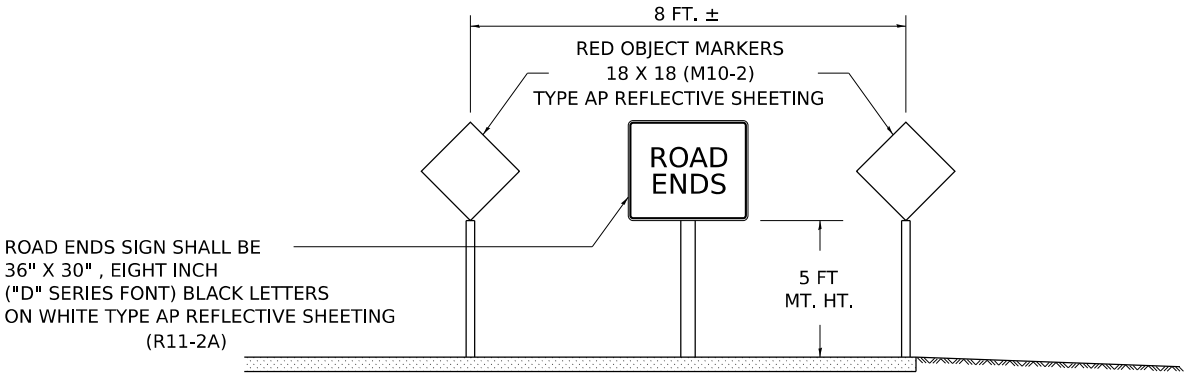
MODEL: 81pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

TERMINATION OF DEAD END ROADS

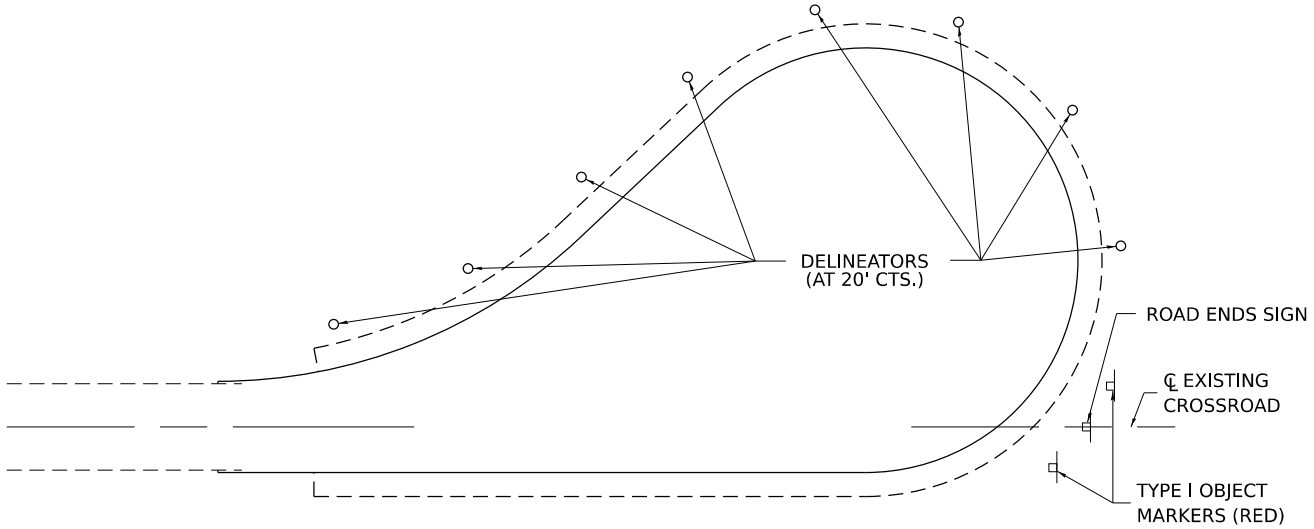
NOTES: A "NO OUTLET" (36"x36" YELLOW) SIGN SHALL BE ERECTED SLIGHTLY BEYOND THE LAST ROAD INTERSECTING THE ROAD WITH NO OUTLET. IF THIS INTERSECTION IS MORE THAN 1500 FT FROM TERMINATION POINT, OR IF SIGHT DISTANCE TO THE CLOSURE IS LESS THAN 500 FT , A ROAD ENDS 500 FT (W6-I6) SIGN SHALL BE ERECTED 500 FT IN ADVANCE OF THE TERMINATION OF THE ROAD. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "TERMINATION OF DEAD END ROADS" WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE SIGNS AND DELINEATORS.

USE 4X6 WOOD POSTS INSTALLED IN ACCORDANCE WITH SECTION 730 OF STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. USE APPLICABLE PARTS OF STANDARD 720001 FOR SIGN MOUNTING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



TERMINATION SIGNING



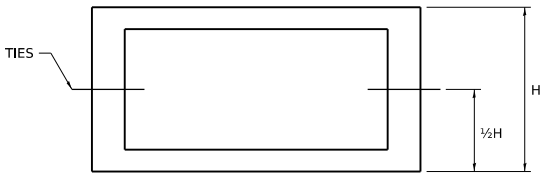
TRAFFIC CONTROL
TYPICAL CUL-DE-SAC

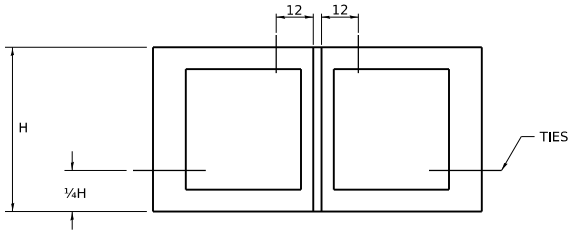
REVISED - 11-12-14	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-14-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

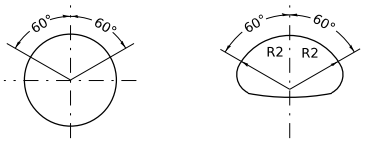
MODEL: 89p2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

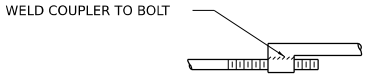
MECHANICAL JOINTS FOR CONCRETE PIPE AND BOX CULVERTS

THE CULVERT TIES SHALL BE INCLUDED IN THE COST OF THE CONCRETE PIPE CULVERTS OR THE PRECAST CONCRETE BOX CULVERT. THE MECHANICAL TIES SHALL BE ON THE OUTSIDE OF THE CULVERT. THE NUTS AND WASHERS SHALL BE PLACED ON THE INSIDE OF OF THE CULVERT AND COVERED WITH MASTIC JOINT SEALER CONFORMING TO SECTION 1055 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

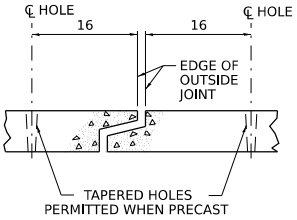


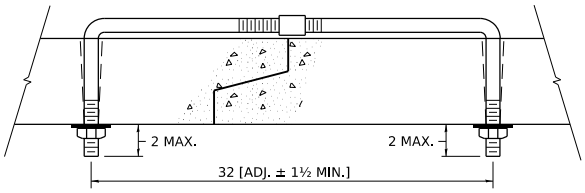






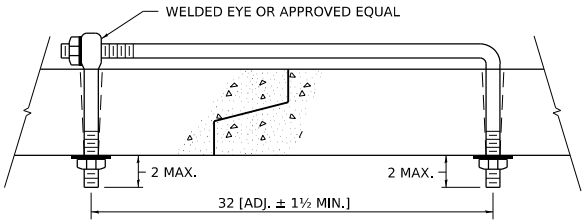
TOP VIEW



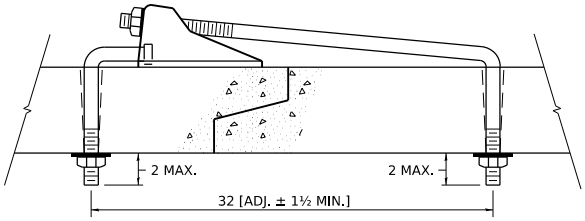


ADJUSTABLE TIE

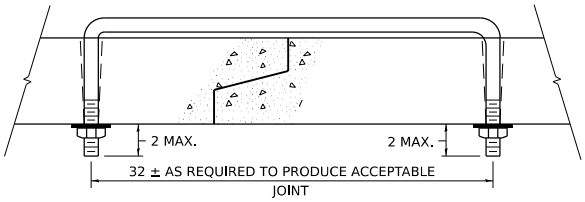
PLACEMENT OF HOLES		
BOX CULVERT FEET	PIPE SIZE INCHES	THREAD DIAMETER
	12	⅝ ROLLED THREADS (SEE NOTE 4)
	15	
	18	
	21	
	24	
	27	
	30	¾ CUT OR ROLLED
3x2	33	
3x3	36	
4x2	42	
4x3	48	
4x4	54	
5x3	60	
5x4	66	
5x5	72	1 CUT OR ROLLED
6x *	78	
7x *	84	
8x *	90	
9x *	96	
10x *	102	
	108	
	120	
	132	
11 X * AND GREATER	138 AND GREATER	1¼



EYE BOLT TIE



CANOPY TIE



U BOLT TIE

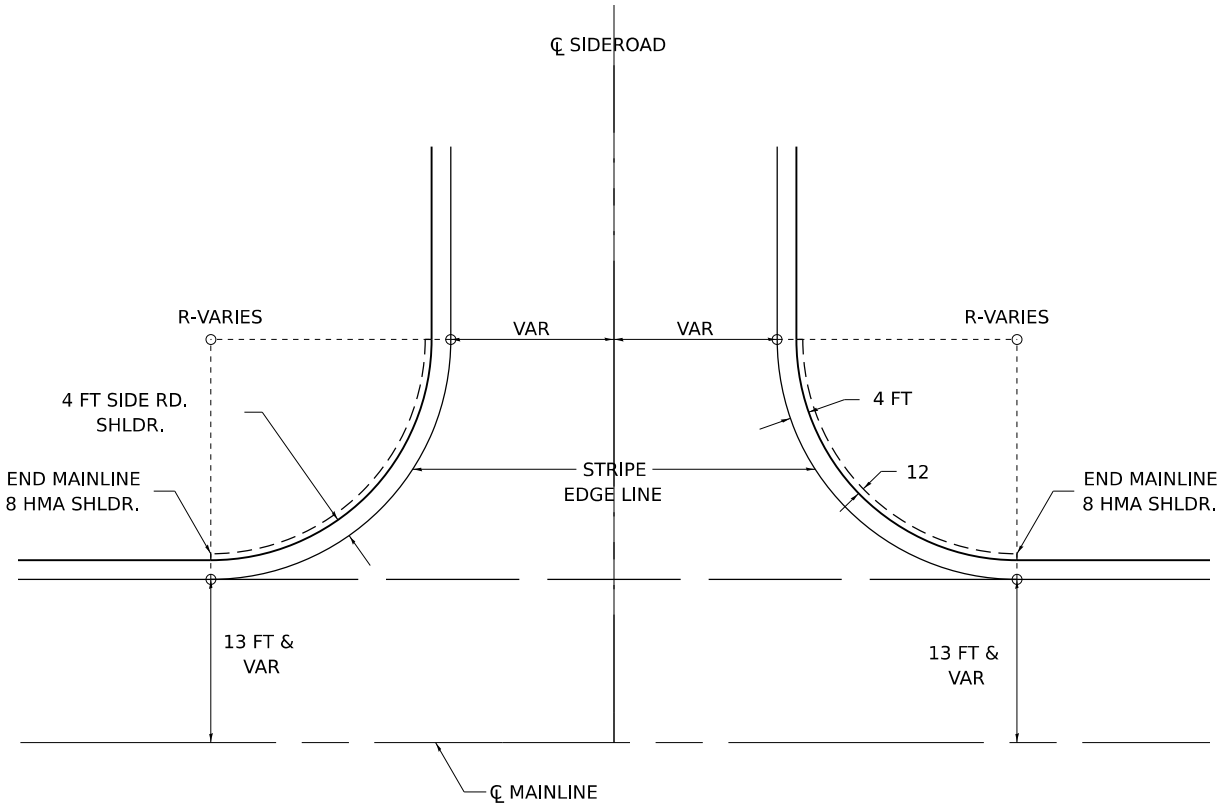
NOTES:

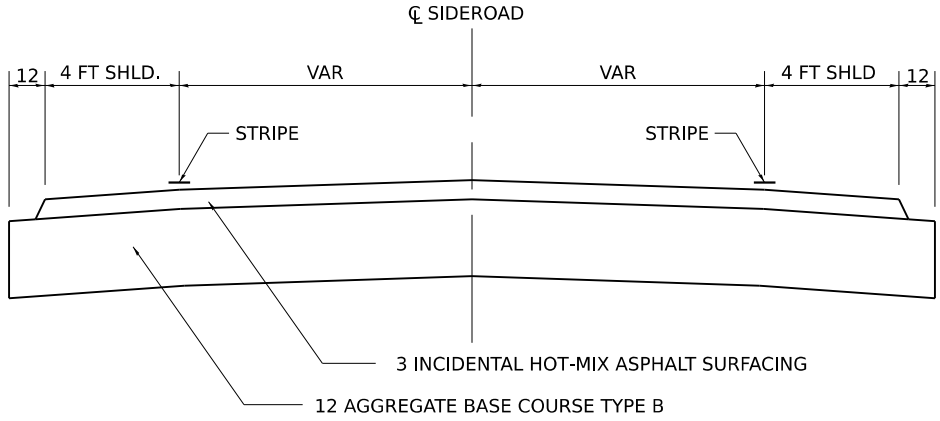
1. HOLES SHALL BE CAST-IN OR DRILLED 16 FROM OUTSIDE EDGE OF JOINT.
2. NUTS AND WASHERS ARE NOT REQUIRED ON INSIDE OF 27 DIAM. PIPE OR LESS.
3. TIES ARE NOT REQUIRED FOR BELL PIPE 24 AND SMALLER. ON OTHER SIZES TIE MAY BE INSERTED FROM INSIDE.
4. CUT THREADS MAY BE USED IF WASHER AND NUT ARE USED.
5. PIPE SIZE LISTED IS INSIDE DIAM. OF ROUND PIPE OR EQUIVALENT DIAM. OF PIPE ARCH OR ELLIPTICAL.
6. GALVANIZING OF TIES IS REQUIRED.
7. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 90pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 11-12-14						
REVISED - 10-14-11				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

TYPICAL AGGREGATE BASE SIDEROAD



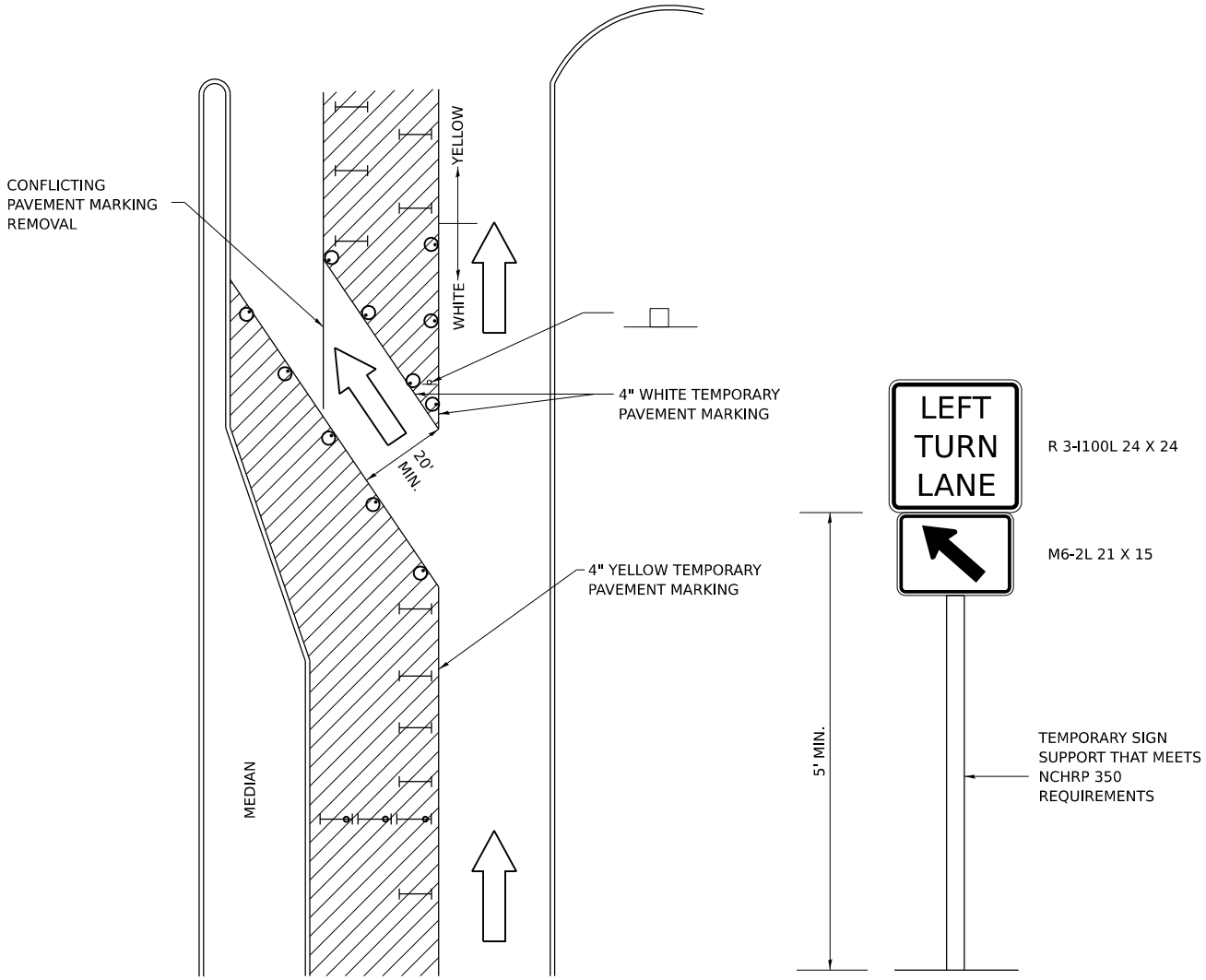


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 93pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -							
REVISED -						CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
- DRUM OR BARRICADE WITH STEADY BURN LIGHT
- SIGN (SEE DETAIL)
- TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

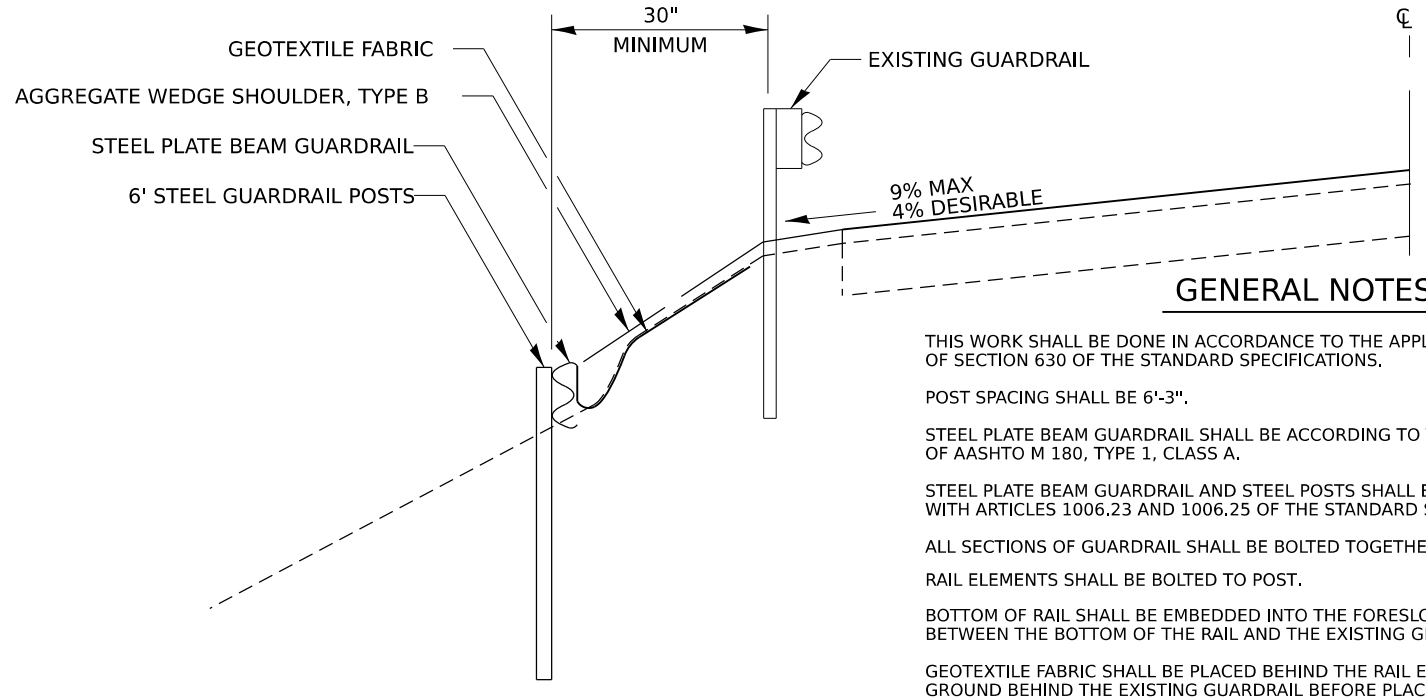
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 94pi2
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-14-11	**REGION 2 / DISTRICT 2 STANDARD**		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

PERIMETER EROSION BARRIER, SPECIAL



GENERAL NOTES

THIS WORK SHALL BE DONE IN ACCORDANCE TO THE APPLICABLE PORTIONS OF SECTION 630 OF THE STANDARD SPECIFICATIONS.

POST SPACING SHALL BE 6'-3".

STEEL PLATE BEAM GUARDRAIL SHALL BE ACCORDING TO THE REQUIREMENTS OF AASHTO M 180, TYPE 1, CLASS A.

STEEL PLATE BEAM GUARDRAIL AND STEEL POSTS SHALL BE IN ACCORDANCE WITH ARTICLES 1006.23 AND 1006.25 OF THE STANDARD SPECIFICATIONS.

ALL SECTIONS OF GUARDRAIL SHALL BE BOLTED TOGETHER.

RAIL ELEMENTS SHALL BE BOLTED TO POST.

BOTTOM OF RAIL SHALL BE EMBEDDED INTO THE FORESLOPE UNTIL NO GAP EXISTS BETWEEN THE BOTTOM OF THE RAIL AND THE EXISTING GROUND.

GEOTEXTILE FABRIC SHALL BE PLACED BEHIND THE RAIL ELEMENT AND ON THE GROUND BEHIND THE EXISTING GUARDRAIL BEFORE PLACING THE AGGREGATE WEDGE SHOULDERS. THE INSTALLATION AND MATERIAL FOR GEOTEXTILE FABRIC SHALL BE ACCORDING TO SECTION 210 OF THE STANDARD SPECIFICATIONS.

AT LOCATIONS WHERE THERE ARE GAPS UNDER THE RAIL ANOTHER RAIL ELEMENT SHALL BE PLACED BELOW THE FIRST RAIL AND BOLTED TO IT. THE ADDITIONAL RAIL ELEMENTS WILL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL).

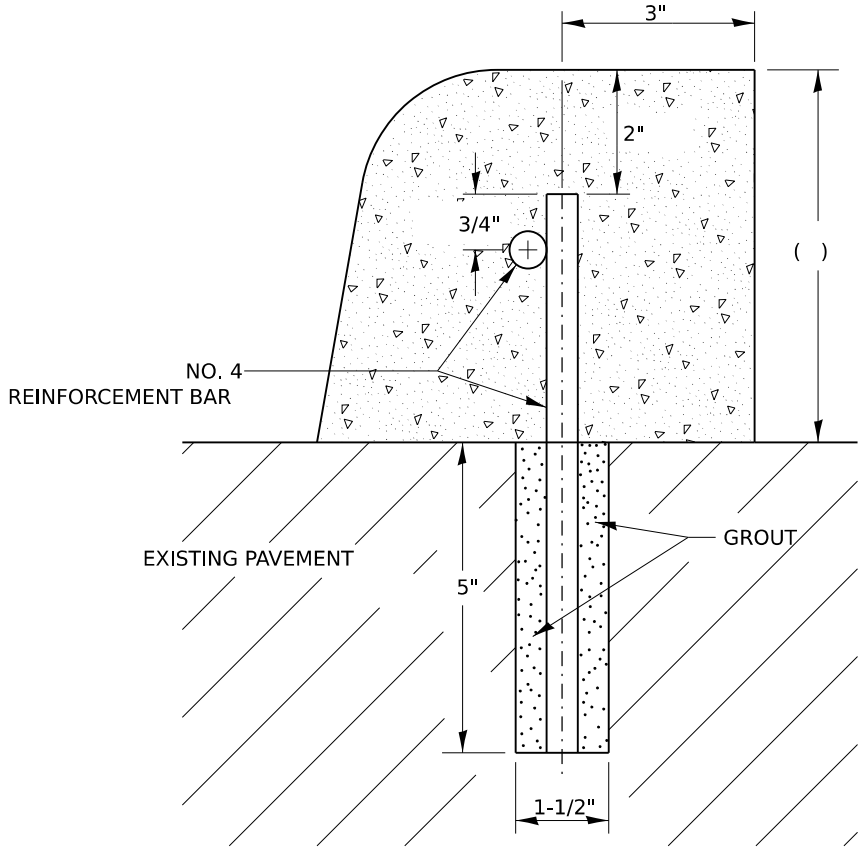
STEEL PLATE BEAM GUARDRAIL, 6' STEEL GUARDRAIL POSTS, AND GEOTEXTILE FABRIC SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PERIMETER EROSION BARRIER, SPECIAL.

AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE WEDGE SHOULDER, TYPE B.

MODEL: 8pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 9-16-11							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

CONCRETE CURB (SPECIAL)



CONCRETE CURB (SPECIAL) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

HOLES 1-1/2"Ø AND 5" DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE PAVEMENT AT 5'-0" CENTERS. NO. 4 REINFORCEMENT BARS ( ) LONG SHALL BE GROUTED IN THE HOLES AND A NO. 4 REINFORCEMENT BAR SHALL BE INSTALLED LONGITUDINALLY IN THE CURB.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

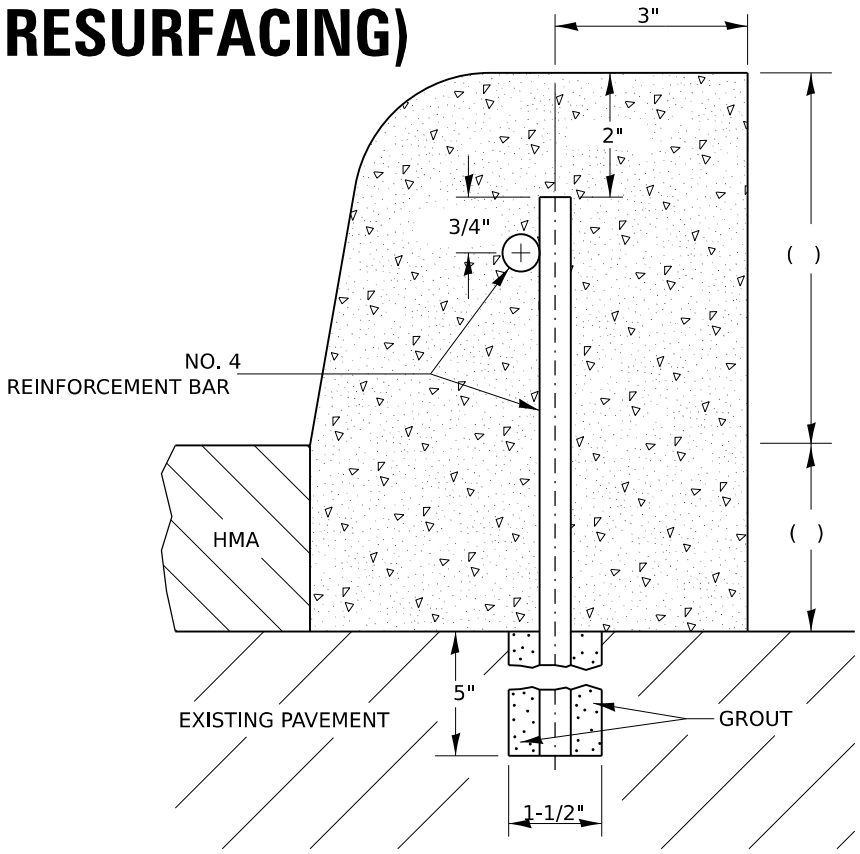
THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS AND REINFORCEMENT BARS IN THE CURB SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOOT FOR CONCRETE CURB (SPECIAL).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 11pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 9-16-11								
REVISED -							CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

CONCRETE CURB (SPECIAL)
(ADJACENT TO RESURFACING)



CONCRETE CURB (SPECIAL) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

HOLES 1-1/2"∅ AND 5" DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE PAVEMENT AT 5'-0" CENTERS. NO. 4 REINFORCEMENT BARS ( ) LONG SHALL BE GROUTED IN THE HOLES AND A NO. 4 REINFORCEMENT BAR SHALL BE INSTALLED LONGITUDINALLY IN THE CURB.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS AND REINFORCEMENT BARS IN THE CURB SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOOT FOR CONCRETE CURB (SPECIAL).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 12pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 9-16-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

COMBINATION CONCRETE CURB & GUTTER, TYPE , SPECIAL

COMBINATION CONCRETE CURB AND GUTTER, TYPE SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLIMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

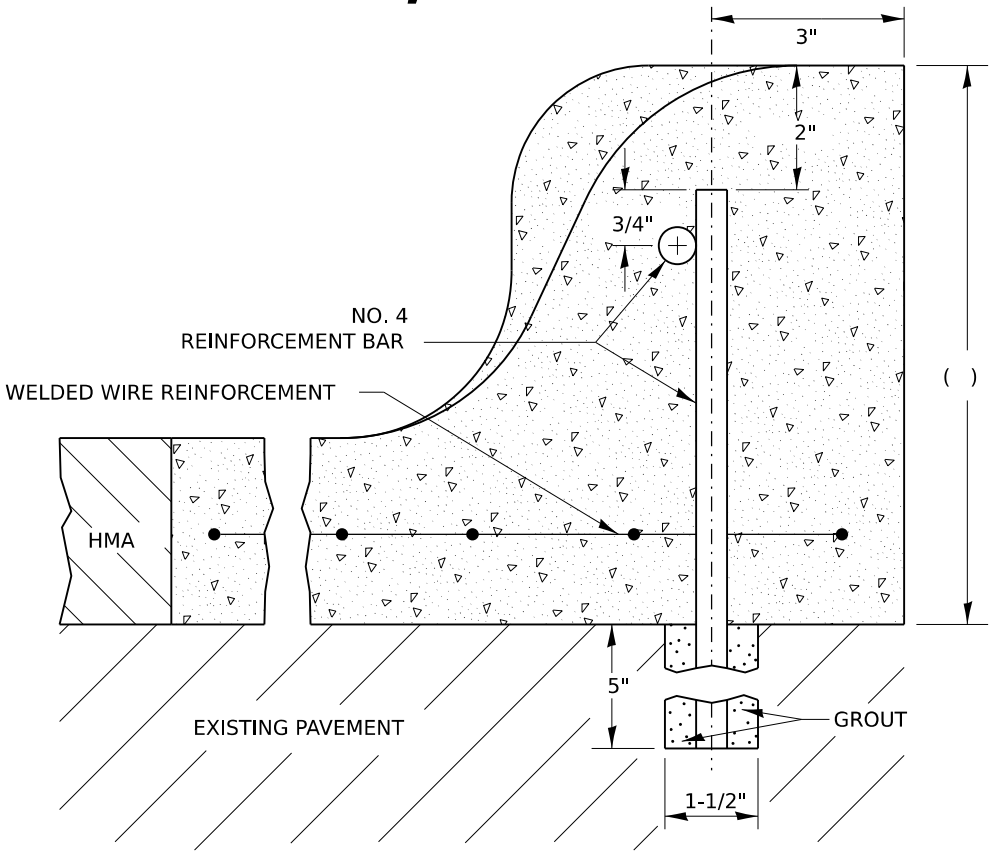
HOLES 1-1/2" Ø AND 5" DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE PAVEMENT AT 5'-0" CENTERS. NO. 4 REINFORCEMENT BARS " LONG SHALL BE GROUTED IN THE HOLES AND A NO. 4 REINFORCEMENT BAR SHALL BE INSTALLED LONGITUDINALLY IN THE CURB.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB AND GUTTER IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

GUTTER FLAG 12" OR GREATER IN WIDTH SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT, 6 x 6 MESH NO. 4 WIRE, NOT WEIGHING LESS THAN 58 lbs/100 sq. ft.

THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS, REINFORCEMENT BARS AND WELDED WIRE REINFORCEMENT IN THE CURB AND GUTTER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE , SPECIAL.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

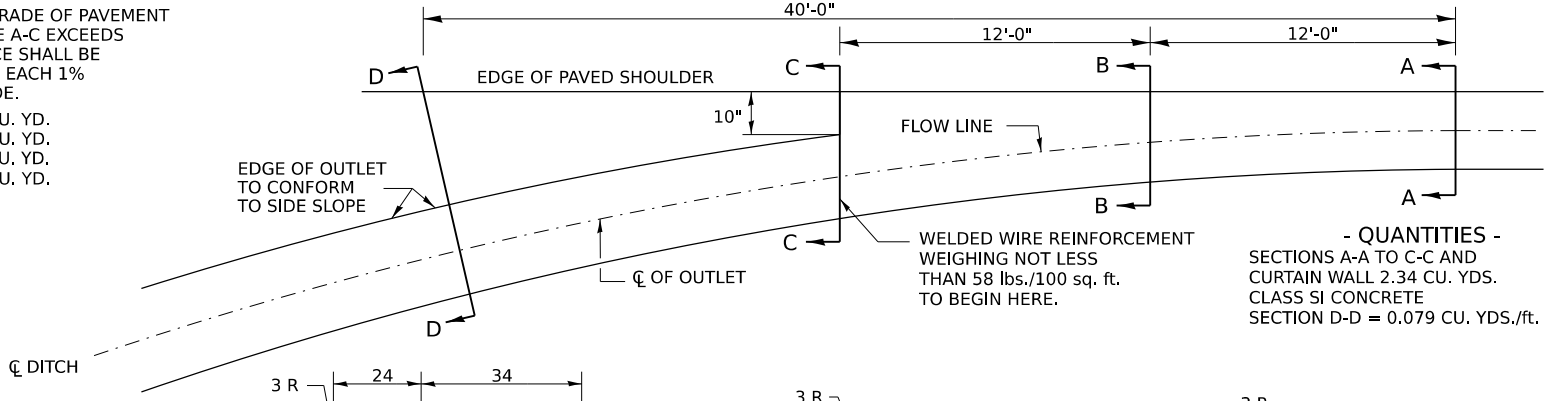
MODEL: 13pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 9-16-11								
REVISED -							CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

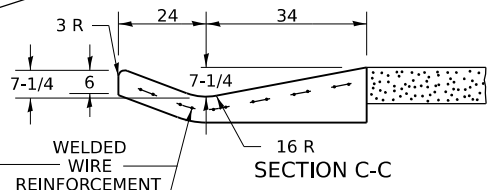
GUTTER OUTLET ADJACENT TO STABILIZED SHOULDER

NOTE:
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE A-C EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' FOR EACH 1% INCREASE IN GRADE.

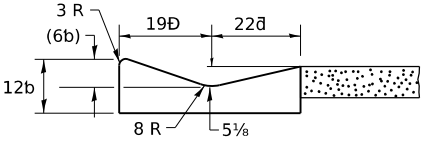
3 % 30'	2.93 CU. YD.
4 % 36'	3.51 CU. YD.
5 % 42'	4.10 CU. YD.
6 % 48'	4.68 CU. YD.



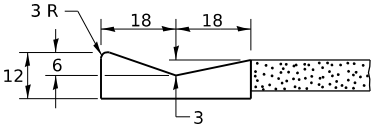
- QUANTITIES -
SECTIONS A-A TO C-C AND CURTAIN WALL 2.34 CU. YDS.
CLASS SI CONCRETE
SECTION D-D = 0.079 CU. YDS./ft.



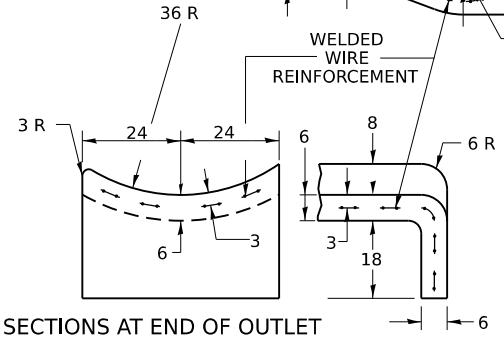
SECTION C-C



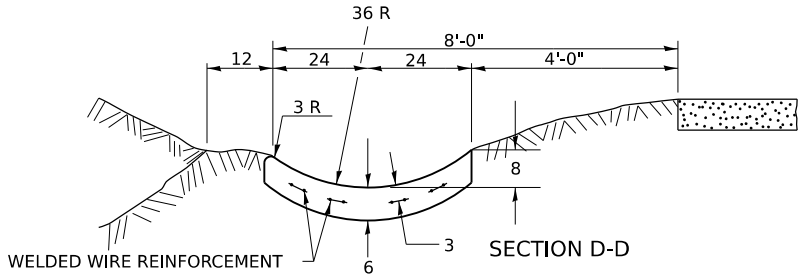
SECTION B-B



SECTION A-A



SECTIONS AT END OF OUTLET



SECTION D-D

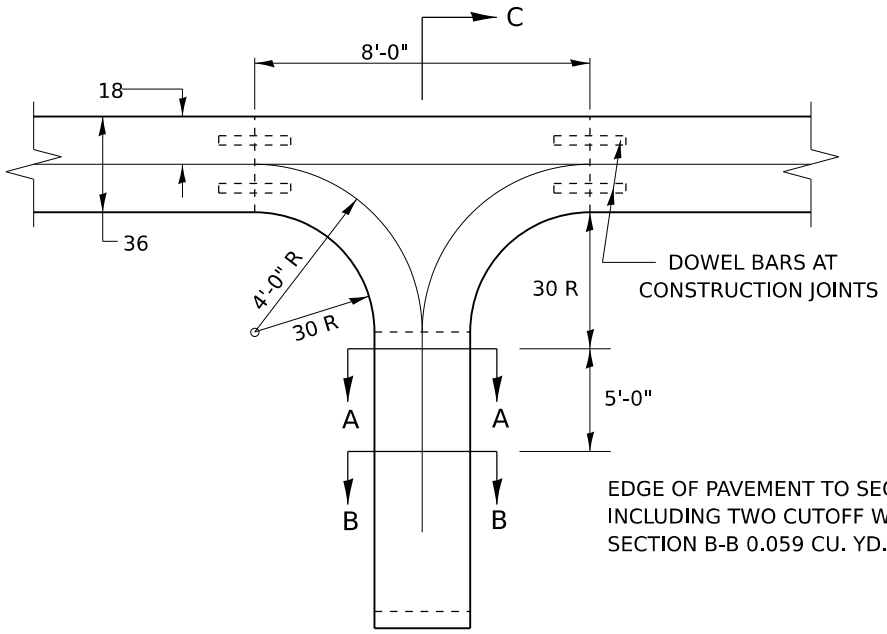
NOTES:
CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
THE GUTTER OUTLET WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. FOR CLASS SI CONCRETE (OUTLETS), WHICH PRICE SHALL INCLUDE THE COST OF THE WELDED WIRE REINFORCEMENT

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

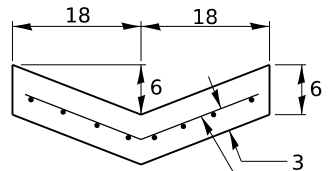
MODEL: 15pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 9-30-11										
REVISED -								CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

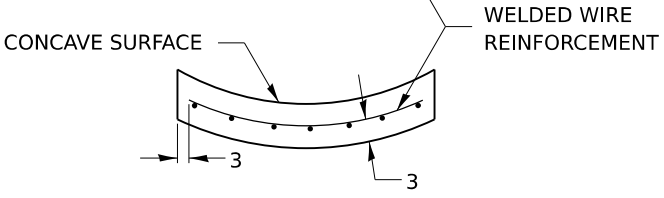
CONCRETE GUTTER, TYPE A, WITH FLUME



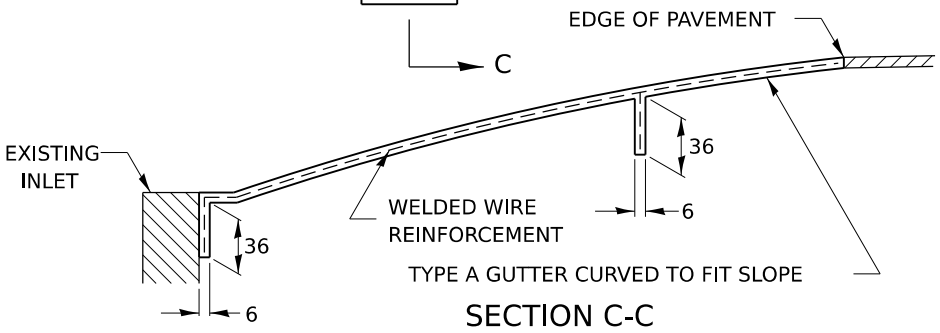
EDGE OF PAVEMENT TO SECTION A-A
INCLUDING TWO CUTOFF WALLS 1.02 CU YDS
SECTION B-B 0.059 CU. YD./FT.



SECTION A-A



SECTION B-B



TYPE A GUTTER CURVED TO FIT SLOPE

SECTION C-C

NOTES:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
THE GUTTER SHALL BE TIED TO ITS FLUME AS SHOWN.
THE FLUME SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT HAVING A WEIGHT OF AT LEAST 58 lbs/100 sq. ft.. WITH 6 x 6 MESH, NO. 4 WIRE.
FLUME SHALL ALSO HAVE TWO CUTOFF WALLS AS SHOWN.
COST OF FLUME PORTION INCLUDING ALL MATERIALS AND LABOR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. FOR CLASS SI CONCRETE (OUTLET).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 16pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14							
REVISED - 9-30-11						CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED

(DETAILS FOR CURB & GUTTER REPLACEMENT)

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE 1-1/2 IN DIAMETER AND 9 DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. A 1-1/4 X 18 SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY.

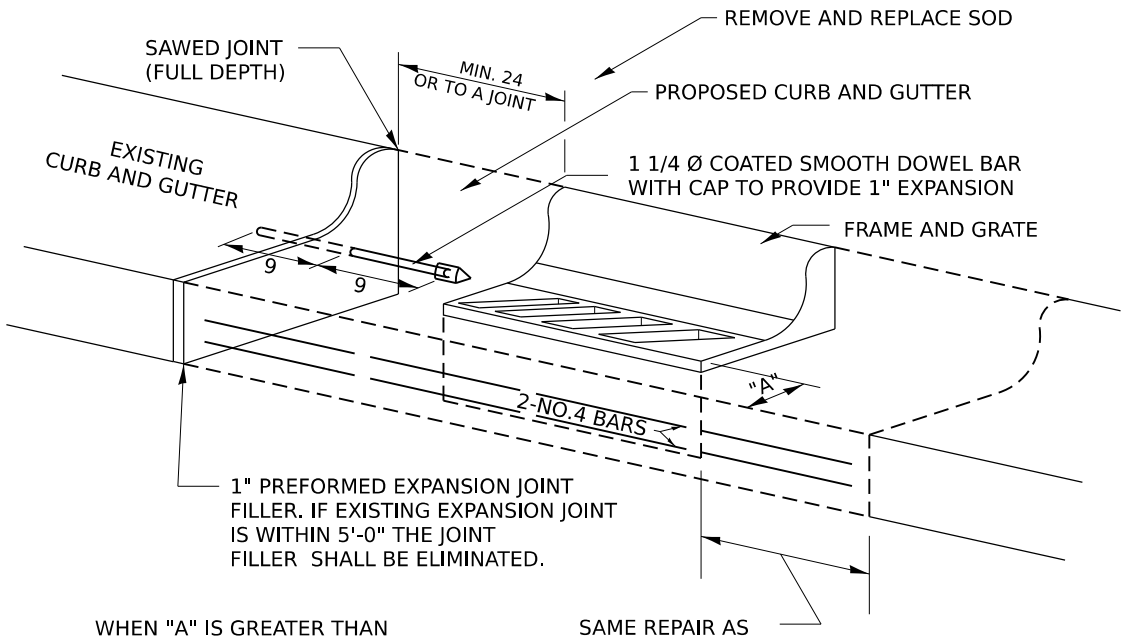
JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDER-LYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THAT REMOVED.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.



WHEN "A" IS GREATER THAN 2 , 2-NO. 4 BARS SHALL BE PLACED AS SHOWN.

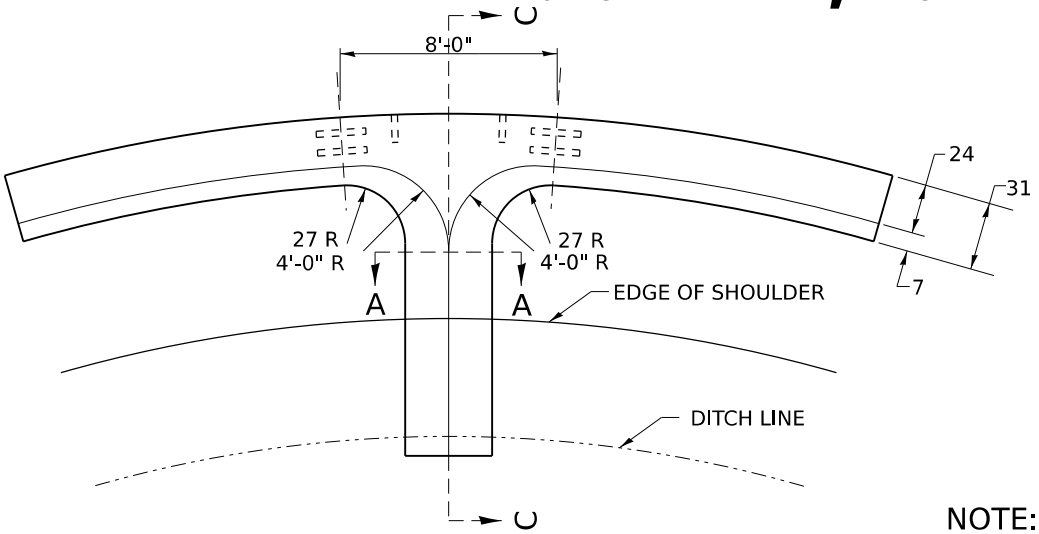
SAME REPAIR AS INDICATED ON OTHER SIDE OF FRAME AND GRATE.

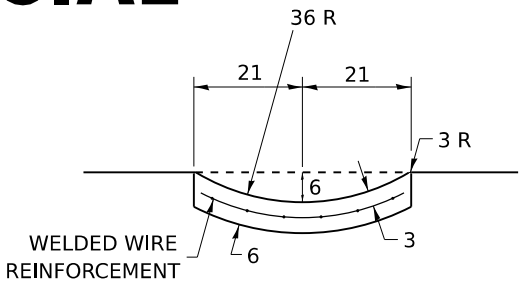
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 17pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 9-30-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

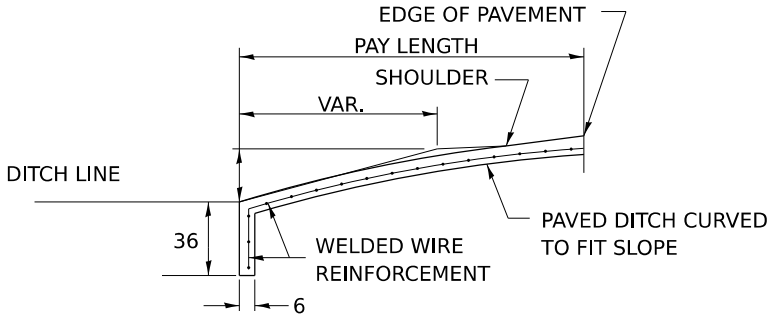
CURB AND GUTTER OUTLET, SPECIAL





QUANTITY OF CONCRETE
SECTION A-A = 0.07 CU.YD./FT.
8' SECTION OF CURB & GUTTER UP TO
SECTION A-A = 0.75 CU.YD.

SECTION A-A



SECTION C-C

NOTE:

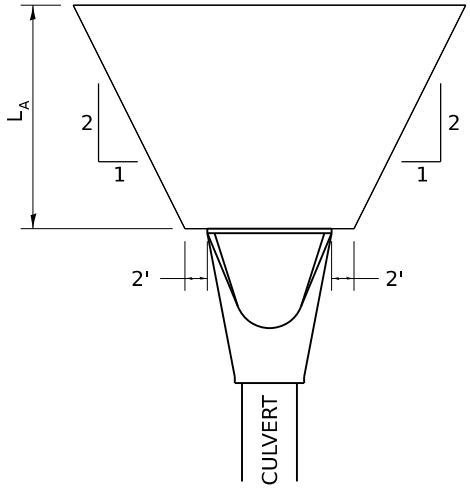
CLASS SI CONCRETE SHALL BE USED THROUGHOUT. CURB AND GUTTER OUTLET SHALL BE TIED TO PAVEMENT SLAB WITH 2 TIE BARS, 30 LONG - 30 CENTERS. OUTLET SHALL BE TIED TO CURB AND GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT HAVING A WEIGHT OF AT LEAST 58 lbs/100 sq. ft. WITH 6 x 6 MESH, NO. 4 WIRE. COST TO BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (OUTLET).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 18pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 9-30-11										
REVISED -								CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

RIPRAP AT END SECTIONS

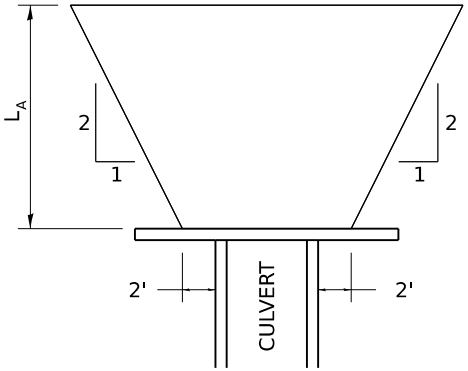


FLARED END SECTION

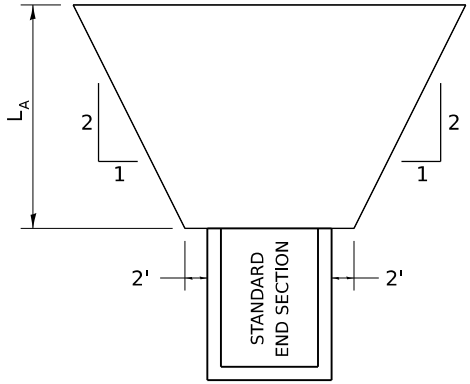
L_A = APRON LENGTH (ft)

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).

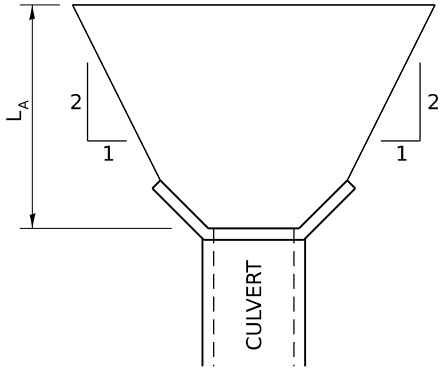
STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).



CULVERT WITH HEADWALL



STANDARD END SECTION

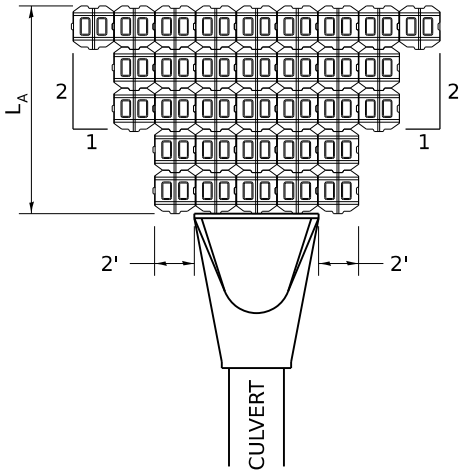


CULVERT WITH WING WALLS

MODEL: 19pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 7-13-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 11-12-14										
REVISED - 2-10-14								CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

CONCRETE REVETMENT MAT AT END SECTIONS

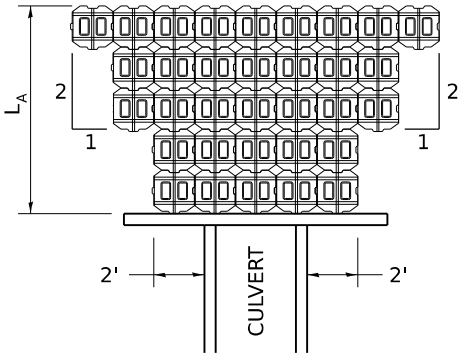


FLARED END SECTION

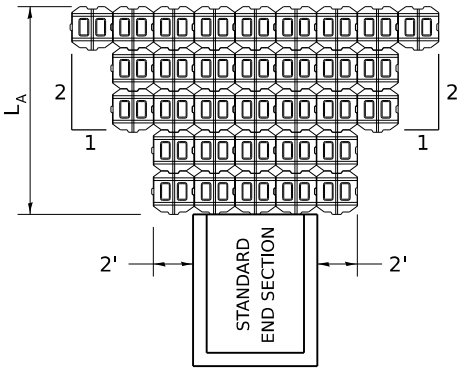
L_A = APRON LENGTH (ft)

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, INSTALL BLOCK BANK TO BANK FOR LENGTH (L_A).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).

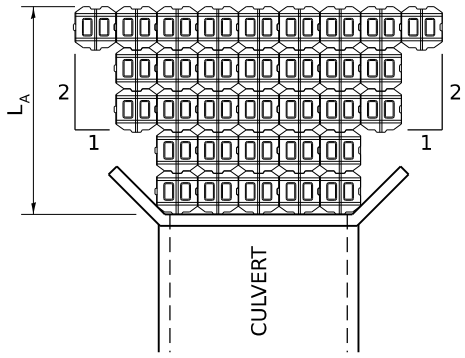


CULVERT WITH HEADWALL



STANDARD END SECTION

Station	Offset	Velocity (ft/sec)	Slope (ft/ft)	Depth of Flow (ft)	Shear Stress (lb/ft^2)

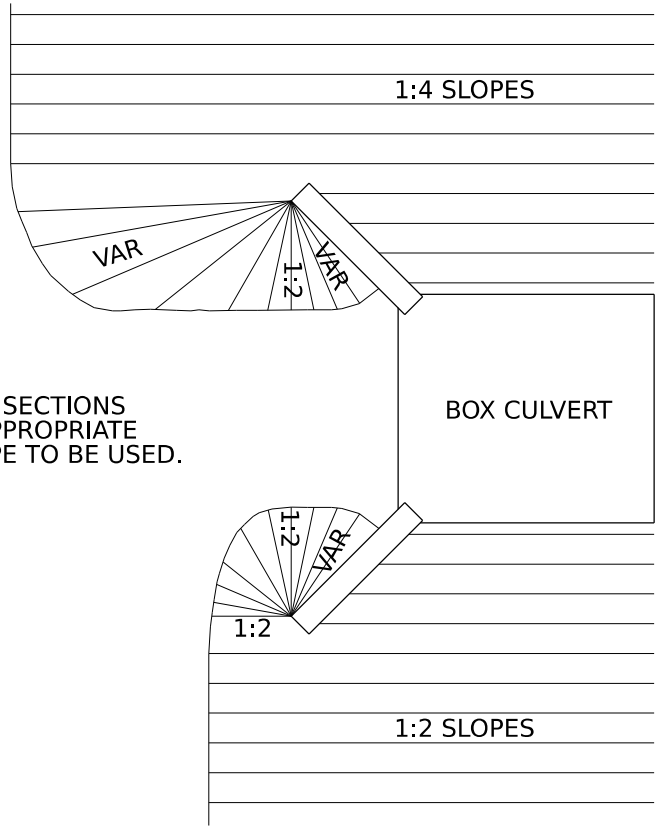


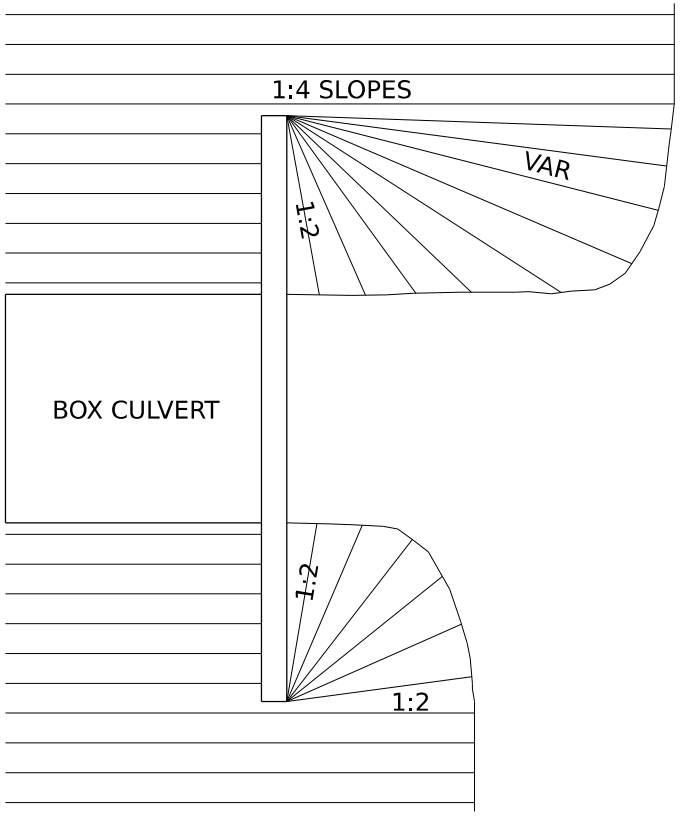
CULVERT WITH WING WALLS

MODEL: 19pt4a
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 7-13-16	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 11-12-14									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

GRADING AROUND WINGWALLS





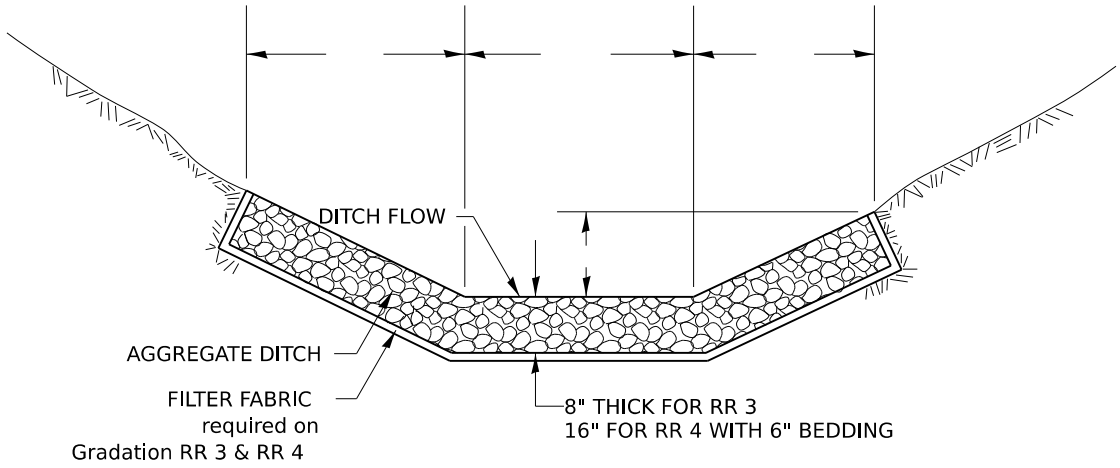
NOTES

SEE CROSS SECTIONS FOR THE APPROPRIATE FRONTSLOPE TO BE USED.

MODEL: 20pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 5-27-09	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -								
REVISED -							CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	

AGGREGATE DITCH
FOR FLEXIBLE DITCH LINING



THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 281. AGGREGATE DITCH WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS OF ACTUAL SURFACE AREA.

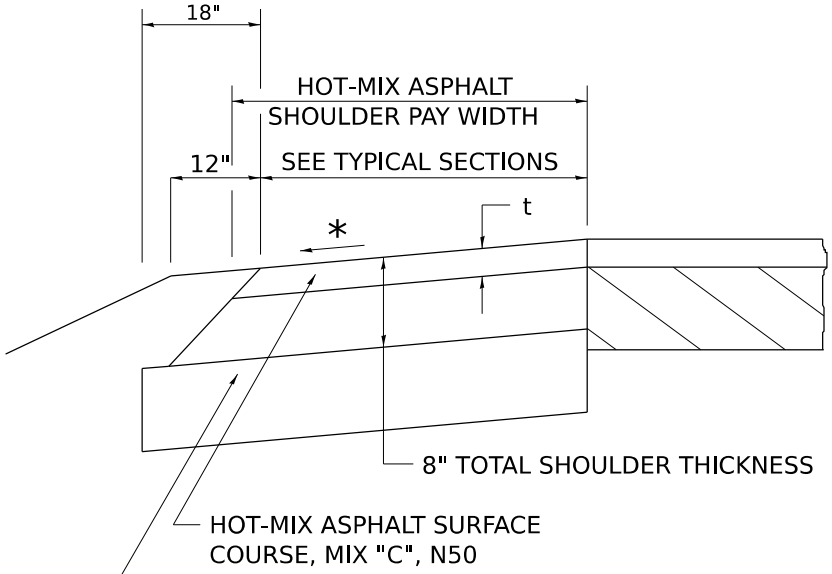
AGGREGATE DITCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR STONE RIPRAP CLASS A3 OR STONE RIPRAP CLASS A4 THE FILTER FABRIC SHALL BE ACCORDING TO SECTION 282. FILTER FABRIC WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 21pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 7-05-12	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -										
REVISED -								CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT	

HOT–MIX ASPHALT SHOULDER



t = SEE TYPICAL SECTIONS
FOR THICKNESS

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

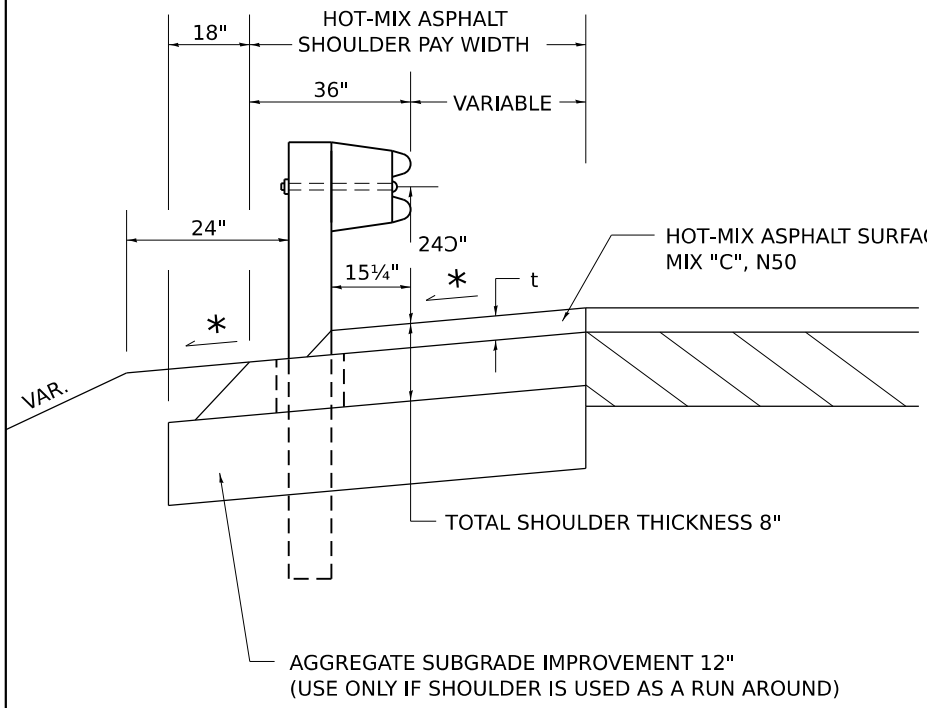
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

MODEL: 22pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 3-13-13									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

DETAIL OF HOT–MIX ASPHALT SHOULDER AT GUARDRAIL



t = SEE TYPICAL SECTIONS FOR THICKNESS

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATED SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED. THE RAIL ELEMENT SHALL BE REINSTALLED WITHIN 72 HOURS OF THE COMPLETION OF THE SURFACE COURSE.

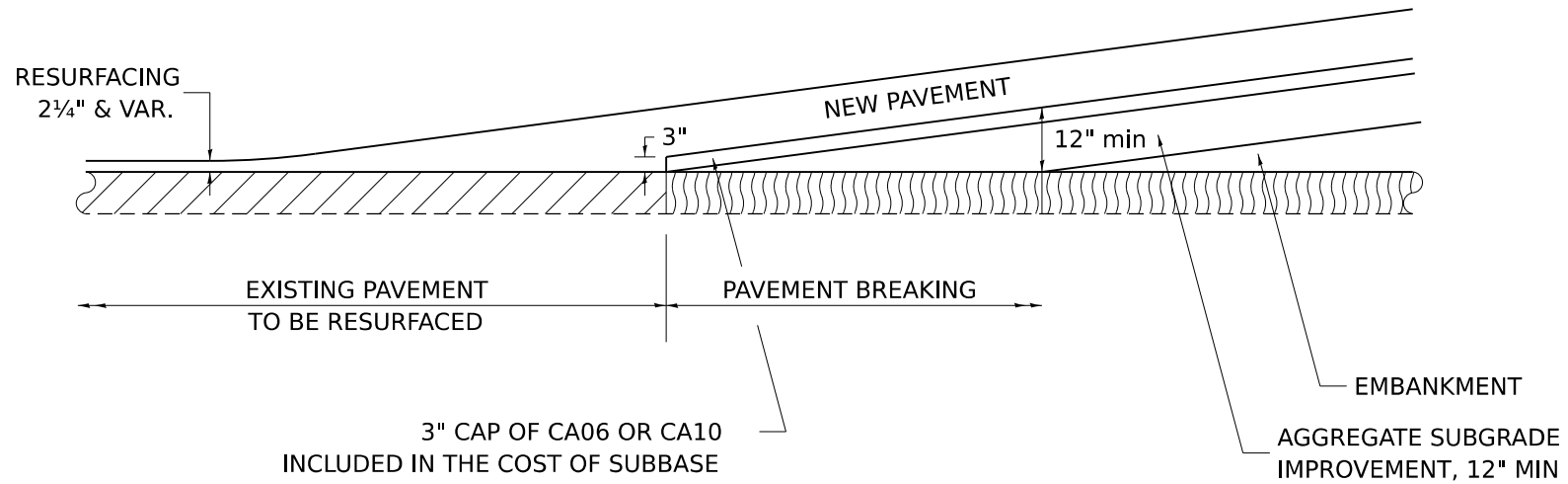
THE HEIGHT OF THE GUARDRAIL SHALL BE SET 24⅞" FROM THE FINISHED SURFACE.

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

MODEL: 23pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14									
REVISED - 8-27-13								CONTRACT NO.	
REVISED - 3-13-13	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT

PAVEMENT BREAKING DETAIL

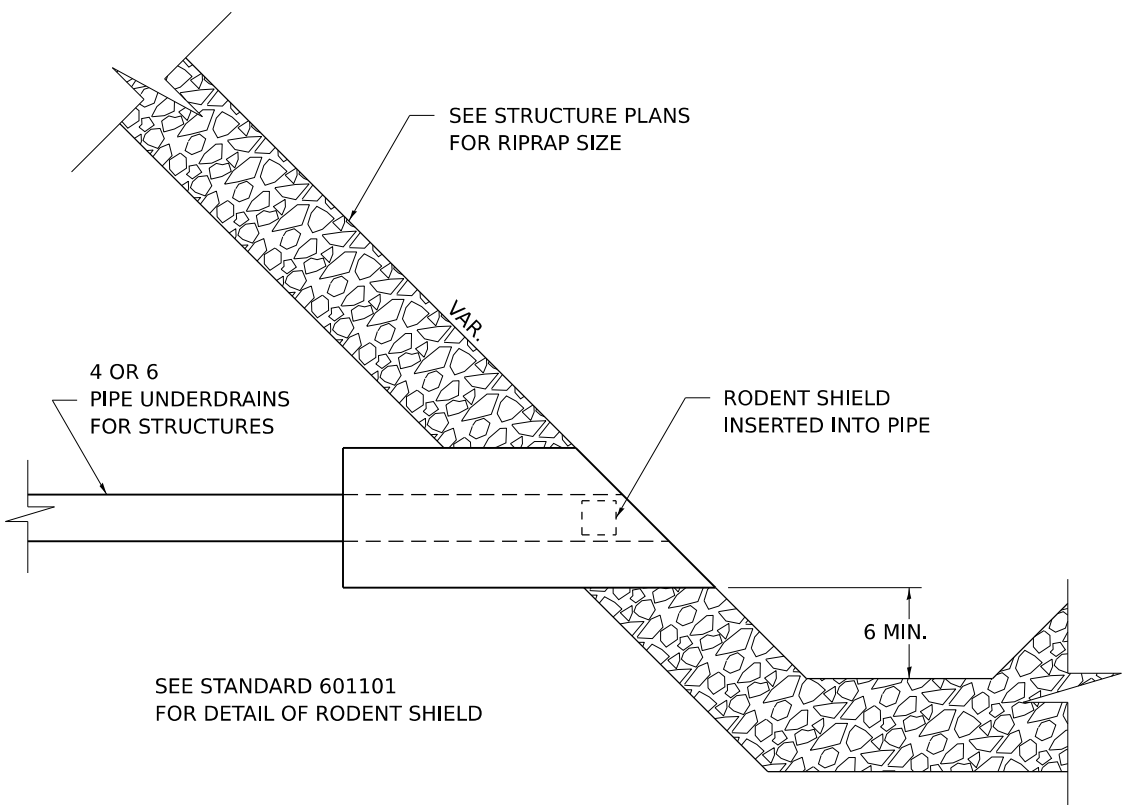


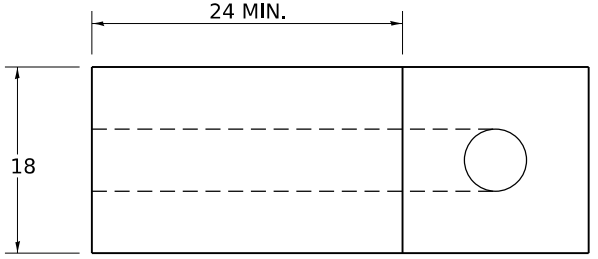
MODEL: 24pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

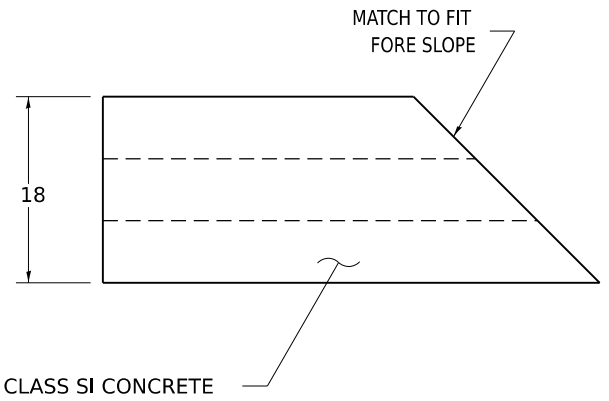
REVISED - 3-19-13	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

PAVEMENT BREAKING DETAIL **24.4**

CONCRETE HEADWALLS FOR PIPE UNDERDRAINS FOR STRUCTURES





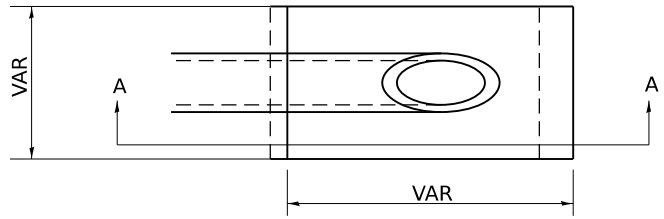


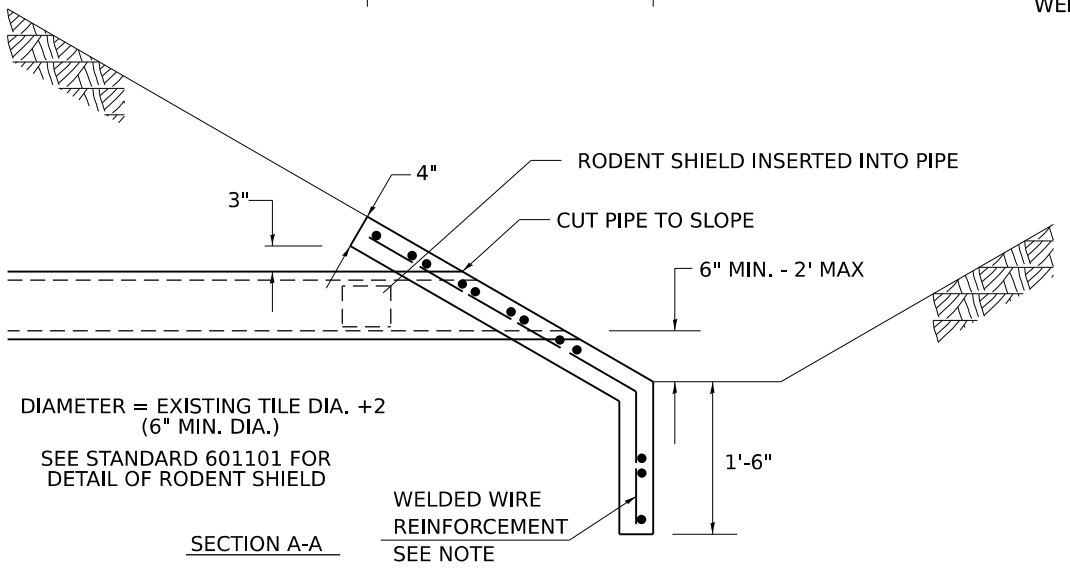
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 27pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 9-28-17	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 11-12-14									
REVISED - 10-03-11								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

CAST–IN–PLACE REINFORCED CONCRETE END SECTIONS

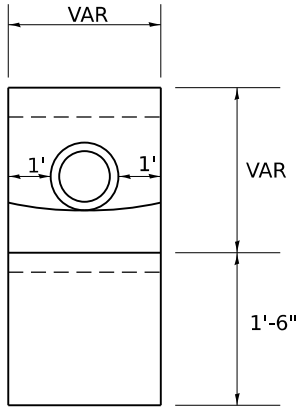




NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.

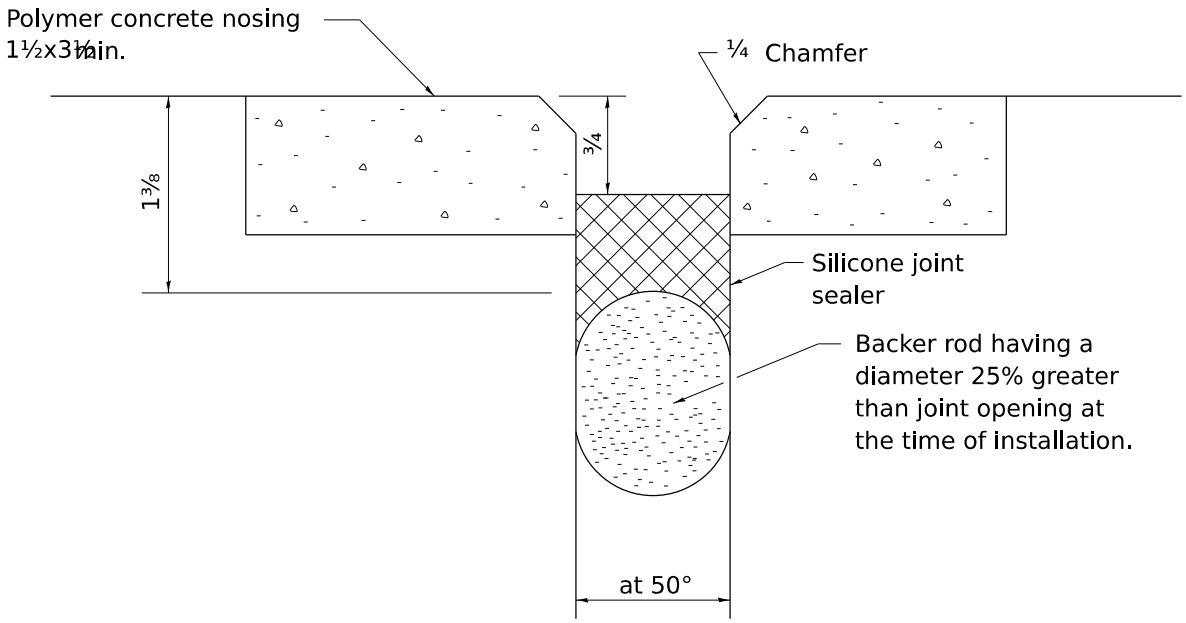
2. COST OF FURNISHING AND INSTALLING WELDED WIRE REINFORCEMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH OF THE SIZE SPECIFIED. WELDED WIRE REINFORCEMENT TO WEIGH NOT LESS THAN 58 lbs/100 sq. ft.



MODEL: 28pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-09-12									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

SILICONE JOINT SEAL (CONCRETE DETAILS)

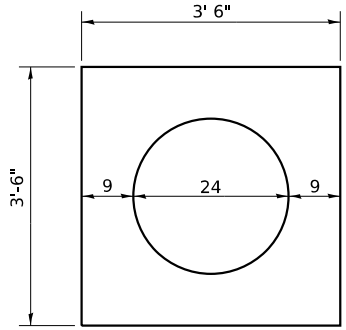


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

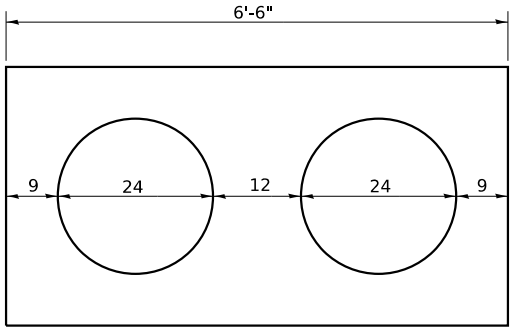
MODEL: 29pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT		

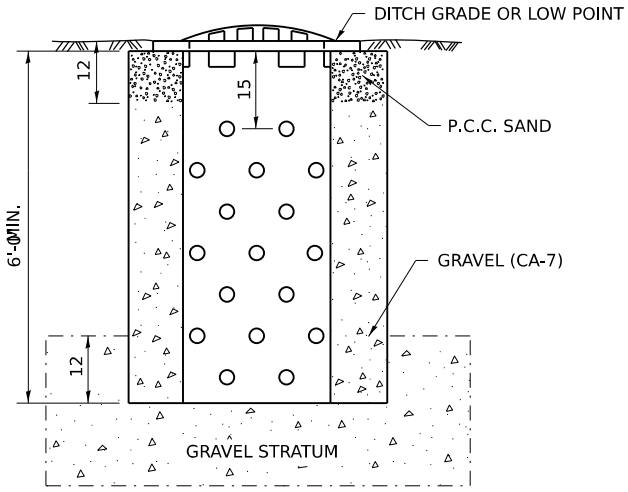
STONE WELLS, SPECIAL



PLAN
SINGLE STONE WELL



PLAN
DOUBLE STONE WELL



NOTE:

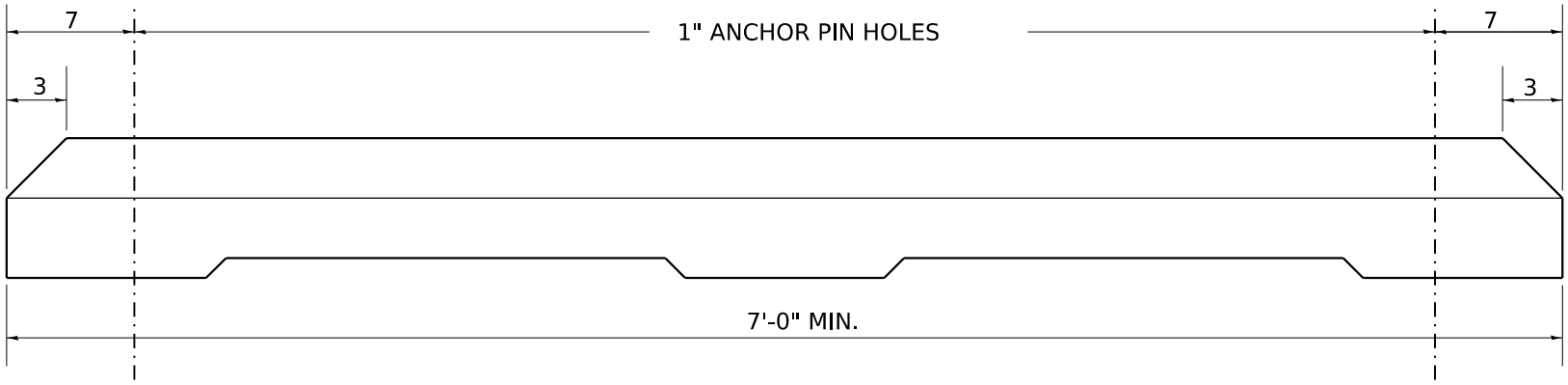
THE INSIDE LINER OF THE STONE WELL SHALL BE A 24 CORRUGATED METAL PIPE OF THE SAME QUALITY AS SPECIFIED FOR PIPE CULVERTS, TYPE I. THE PERFORATIONS SHALL BEGIN 15 FROM THE TOP OF THE STONE WELL AT THE RATE OF 4 HOLES PER SQUARE FOOT. THE SIZE OF THE HOLES SHALL NOT BE LESS THAN 5/16 OR MORE THAN 5/8 DIAMETER. DOUBLE STONE WELL TO BE PAID FOR AS TWO (2) STONE WELLS. STANDARD GRATE TYPE 8 (STD. 604036) WILL BE USED. THE CONTRACT UNIT PRICE FOR STONE WELLS, SPECIAL SHALL INCLUDE ALL MATERIALS AND LABOR FOR THE COMPLETE IN PLACE STONE WELL.

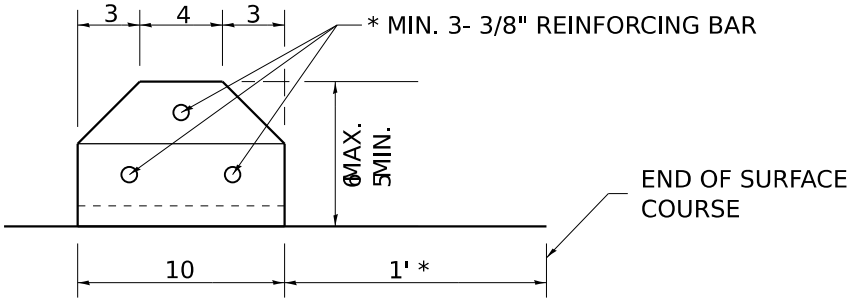
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 30pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-03-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

PARKING BLOCKS





* OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

ANCHOR PINS SHALL BE 3/4 DIAMETER, 36 LONG.

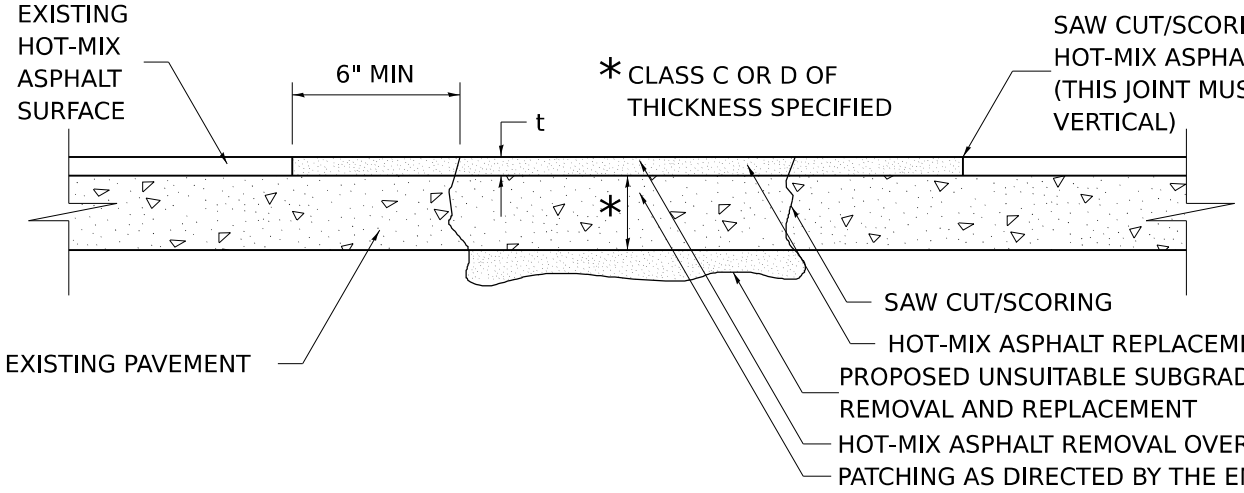
THE COST OF THE MATERIAL, LABOR AND EQUIPMENT NECESSARY TO INSTALL THE PARKING BLOCKS WITH ANCHOR PINS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR PARKING BLOCKS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 31pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

PAVEMENT PATCHING FOR HOT–MIX ASPHALT SURFACED PAVEMENT



LIFT PLACEMENT:

t < 4" MAY BE PLACED IN ONE LIFT.

t > 4" TO BE PLACED IN TWO LIFTS WITH 2" MIN. COMPACTED TOP LIFT.

SEQUENCE OF CONSTRUCTION:

1. REMOVE THE EXISTING HOT-MIX ASPHALT SURFACE.
2. RESIDENT ENGINEER WILL DETERMINE IF LOCATION IS TO BE PATCHED OR TO ONLY REPLACE HOT-MIX ASPHALT SURFACE.
3. REMOVE AND REPLACE FULL DEPTH PATCHES AT LOCATIONS DIRECTED BY THE ENGINEER.
4. REPLACE HOT-MIX ASPHALT SURFACE OVER FULL DEPTH PATCHES AND AT LOCATIONS OF HOT-MIX ASPHALT SURFACE REMOVAL.

GENERAL NOTES:

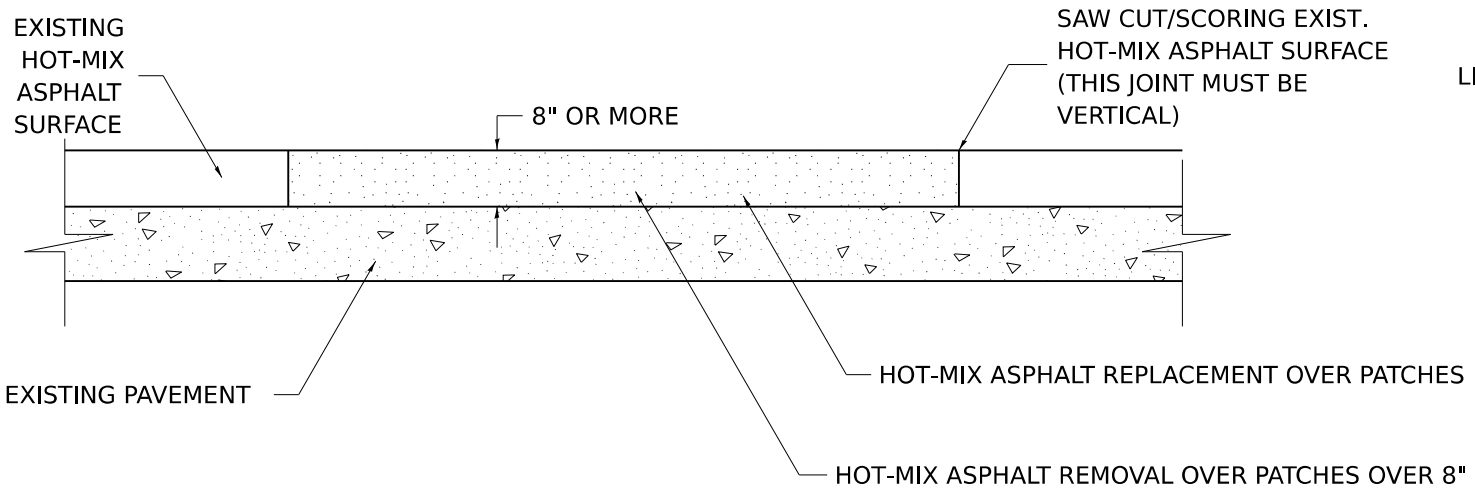
1. FOR BASIS OF PAYMENT: SEE THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 32pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -							
REVISED -						CONTRACT NO.	
REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

PAVEMENT PATCHING DETAIL



LIFT PLACEMENT:

TO BE PLACED IN TWO LIFTS WITH 2" MIN. COMPACTED TOP LIFT.

SEQUENCE OF CONSTRUCTION:

1. REMOVE THE EXISTING HOT-MIX ASPHALT SURFACE.
2. REPLACE HOT-MIX ASPHALT SURFACE.

GENERAL NOTES:

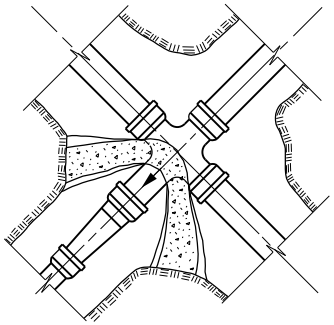
1. FOR BASIS OF PAYMENT: SEE THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

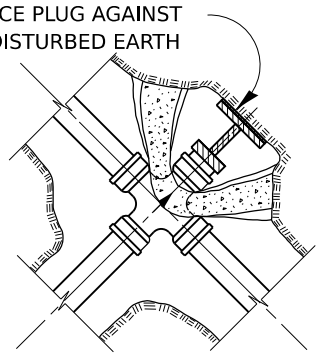
MODEL: 33pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -							
REVISED -					CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

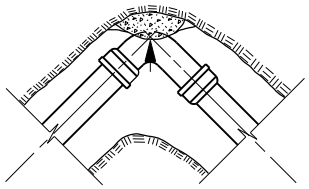
THRUST BLOCK DETAILS



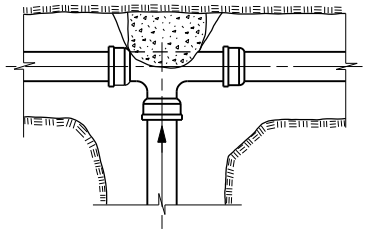
REDUCING CROSS



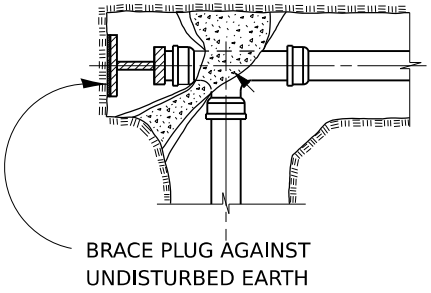
PLUGGED CROSS



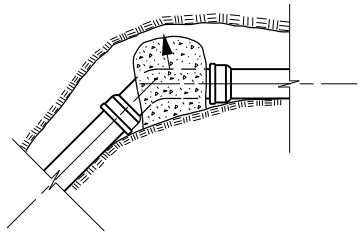
90° ELBOW



TEE



PLUGGED TEE



VERTICAL BEND

NOTES:
ALL BLOCKS TO BEAR AGAINST UNDISTURBED EARTH.
ARROWS INDICATE DIRECTION OF THRUST.
ALL BLOCKS TO BE CLASS SI CONCRETE.
ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 34pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

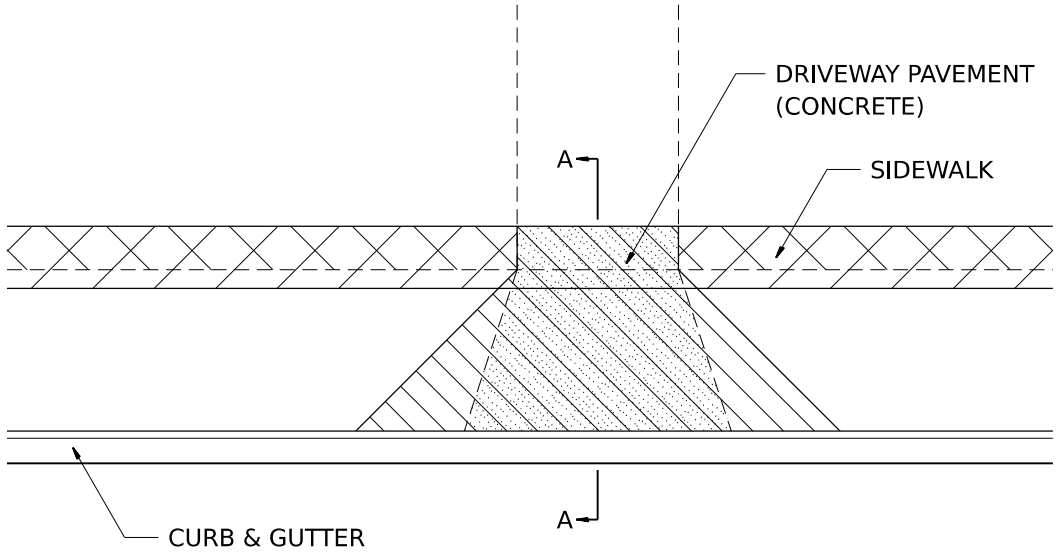
REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -								
REVISED -							CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

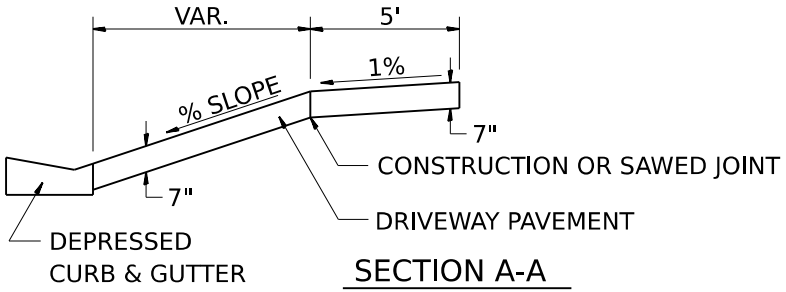
THRUST BLOCK DETAILS **34.4**

SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS

PAY FOR AS

- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- PCC SIDEWALK 5
- PCC DRIVEWAY PAVEMENT 7





SECTION A-A

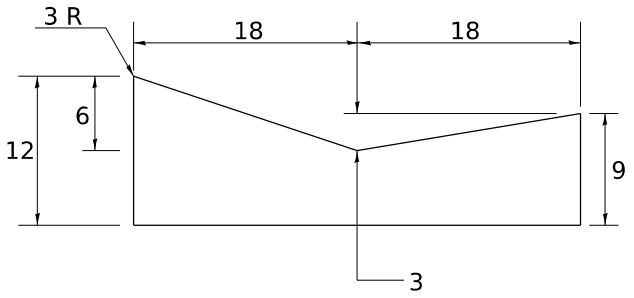
FOR DETAILS ON DIMENSIONS AND GRADES, SEE DISTRICT STANDARD 25.1 OR PLANS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 35pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 6-27-14	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-03-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

CONCRETE GUTTER, TYPE A (SPECIAL)



NOTES:

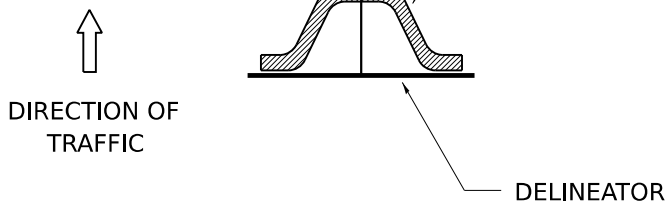
THIS WORK SHALL BE DONE IN ACCORDANCE WITH THIS DETAIL AND STANDARD 606101
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CONCRETE GUTTER, TYPE A (SPECIAL).

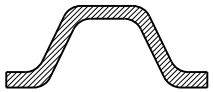
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 36pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

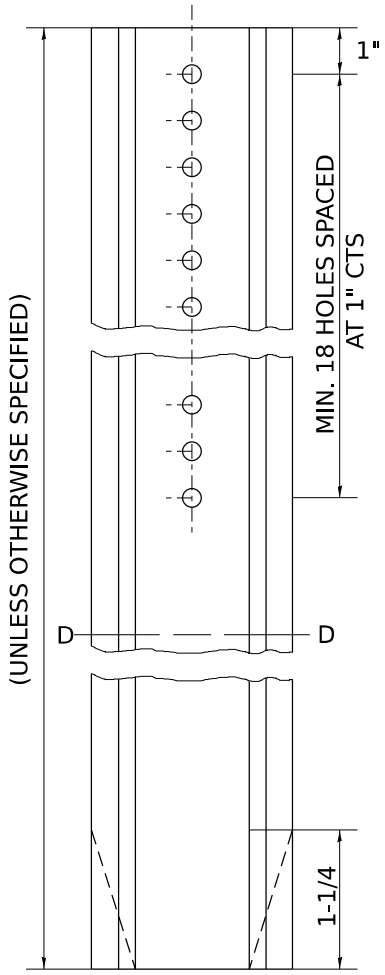
REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

DELINEATOR AND POST ORIENTATION





SECTION D-D



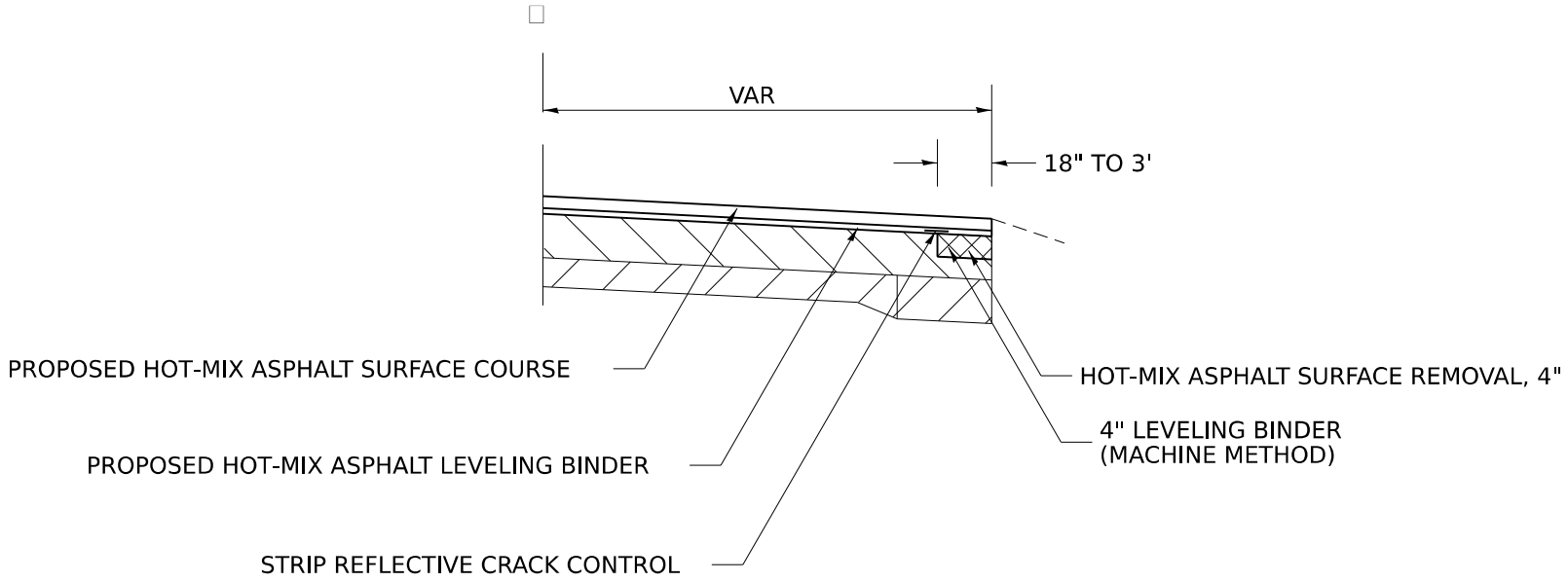
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 37pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT		

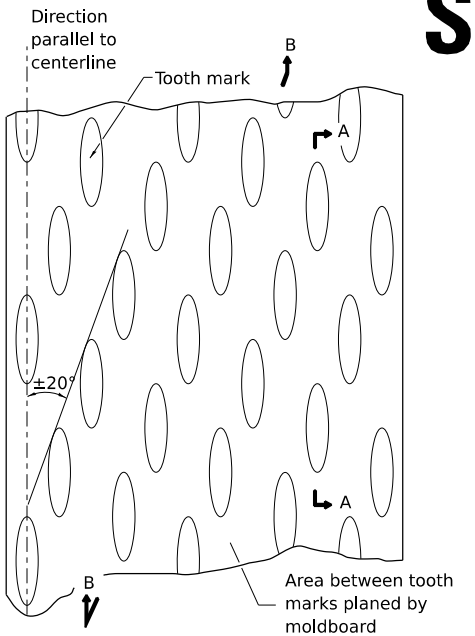
EDGE OF PAVEMENT REPAIR



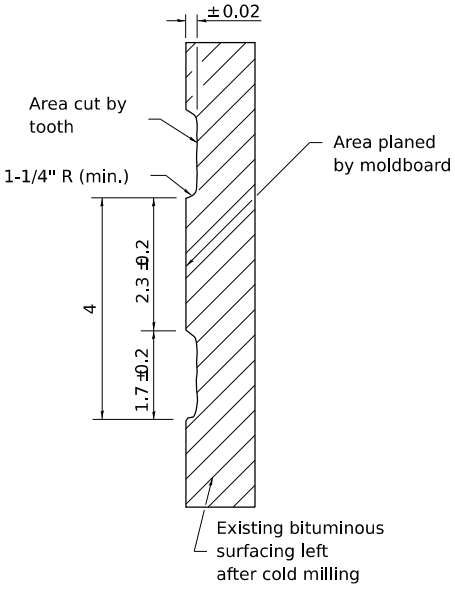
MODEL: 38pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 4-04-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET OF SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT		

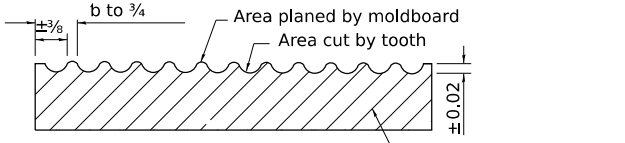
REQUIRED COLD MILLED SURFACE TEXTURE



PLAN



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

NOTES

1. Cold Milling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.

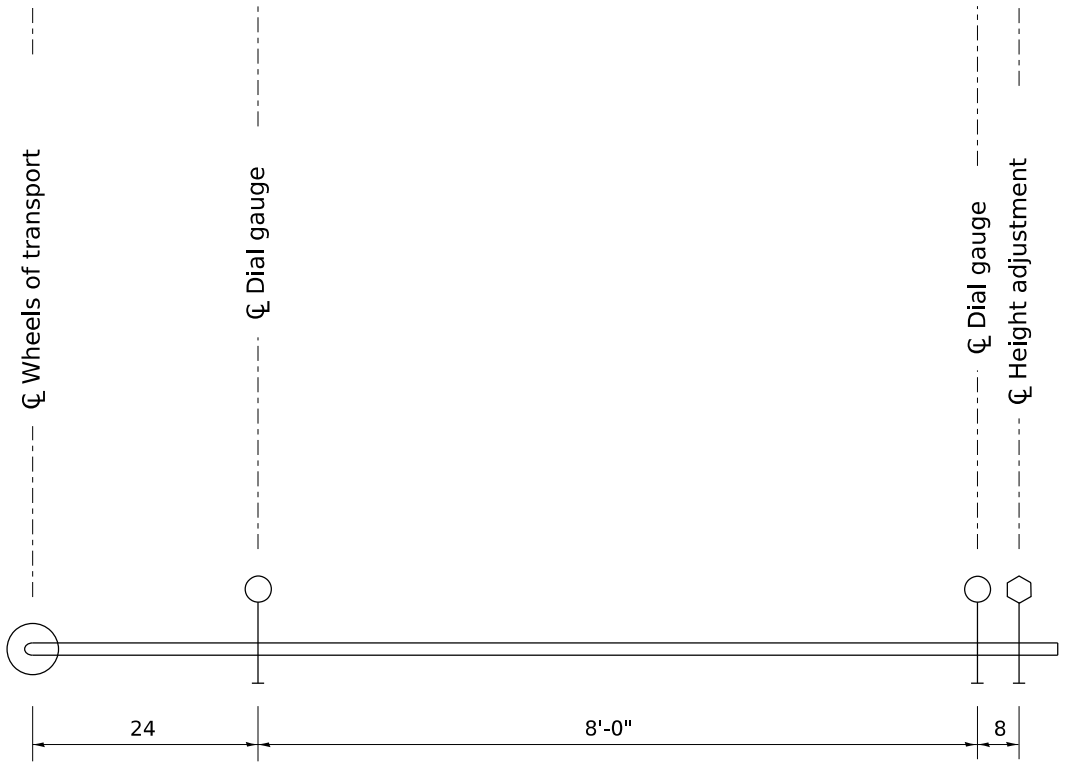
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 43pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -					
REVISED -				CONTRACT NO.	
REVISED -	SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS	FED. AID PROJECT

SLAB MOVEMENT DETECTION DEVICE



ELEVATION

NOTES

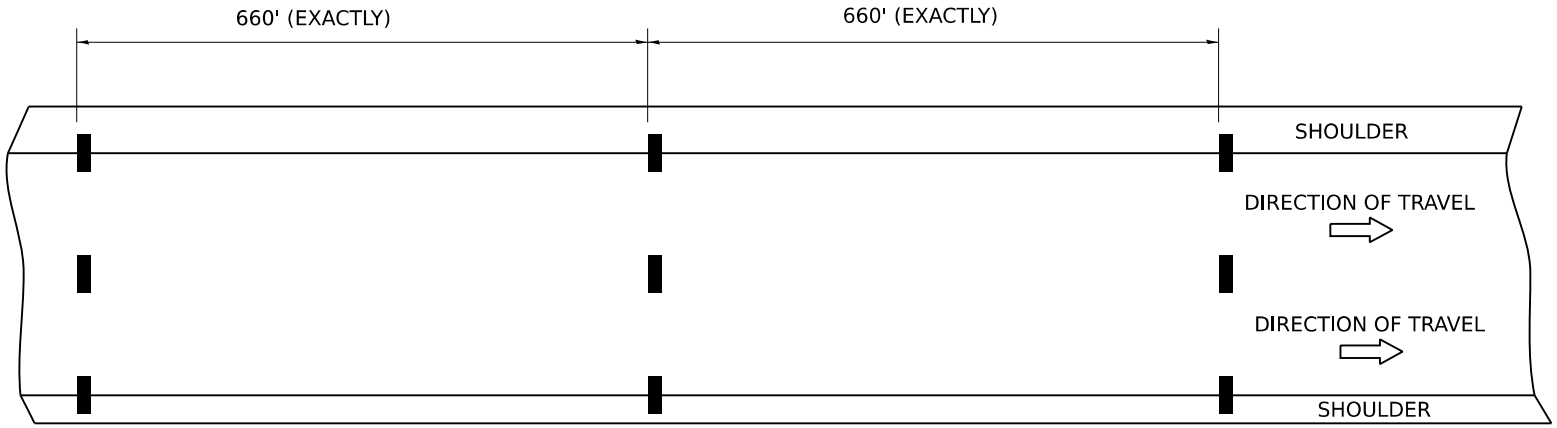
Dial gauges shall be spring loaded in order to measure both extension and compression.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 44pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

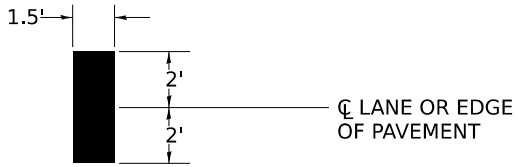
REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

AERIAL SPEED CHECK ZONES



USE THERMOPLASTIC PAVEMENT MARKINGS MEETING THE REQUIREMENTS OF SECTION 782 OF THE STANDARD SPECIFICATIONS.

PAVEMENT MARKING DETAIL



POLICE AERIAL SPEED CHECK ZONES

ESTABLISHED ZONES AND NEW ZONES REQUESTED BY THE ILLINOIS STATE POLICE SHALL BE MARKED CONSISTENT WITH THE REQUIREMENTS OF SECTION 3B.21 OF THE MUTCD. WHEN NEW ZONES ARE PLACED IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF THE MEASURMENT CAN BE ATTESTED TO IN COURT.

ILLINOIS STATE POLICE

DISTRICT 1 STERLING 815/632-4010	CARROLL, LEE, OGLE, WHITESIDE
DISTRICT 7 EAST MOLINE 309/752-4915	HENRY, ROCK ISLAND
DISTRICT 16 PECATONICA 815/239-1152	BOONE, JO DAVIESS, STEPHENSON, WINNEBAGO

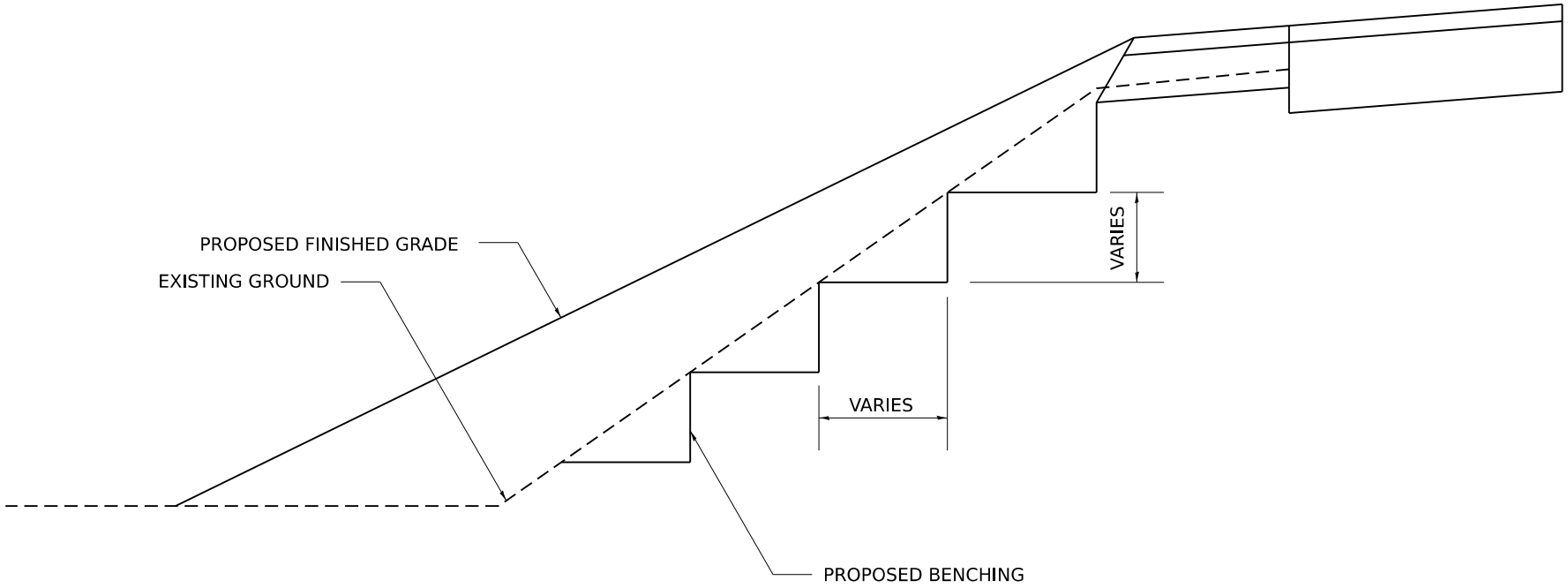
BASIS OF PAYMENT:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR AERIAL SPEED CHECK MARKING.

MODEL: 46pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 6-27-14									
REVISED - 8-27-13								CONTRACT NO.	
REVISED - 10-03-11	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

TYPICAL BENCHING ON EXISTING EMBANKMENT

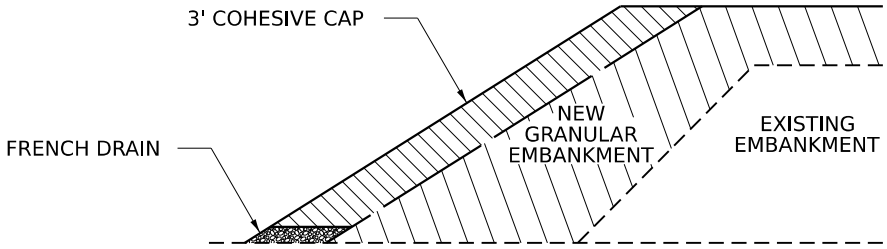


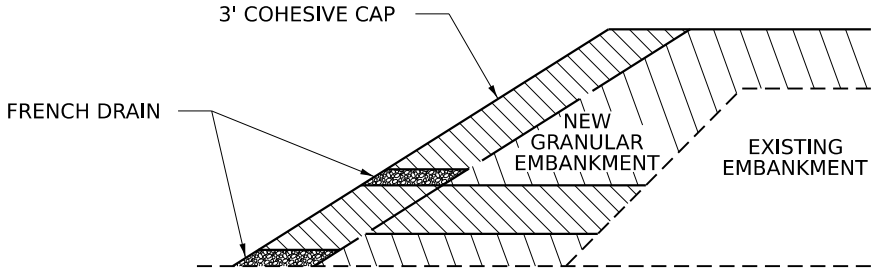
MODEL: 50pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 2-22-06	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

TYPICAL BENCHING ON EXISTING EMBANKMENT **50.4**

TYPICAL CONSTRUCTION OF EMBANKMENTS WITH GRANULAR MATERIAL





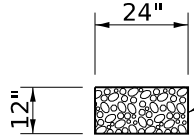
GRANULAR MATERIAL

COHESIVE MATERIAL

NOTES:

WHEN THE CONTRACTOR ELECTS TO USE A GRANULAR TYPE OF MATERIAL TO CONSTRUCT THE NEW EMBANKEMENT, A 3' THICK COHESIVE MATERIAL WILL BE REQUIRED ON THE SLOPE CONSTRUCTED CONCURRENTLY WITH THE GRANULAR EMBANKMENT LIFTS.

IF THE CONTRACTOR SWITCHES BETWEEN GRANULAR TYPES OF MATERIAL LIFTS AND COHESIVE MATERIAL LIFTS IN THE NEWER EMBANKMENT, FRENCH DRAINS SHALL BE CONSTRUCTED EVERY 250' ACCORDING TO ARTICLE 601.06. THE COST OF MATERIALS AND LABOR WILL BE INCLUDED IN THE CONTRACT UNIT PRICE OF EARTH EXCAVATION.



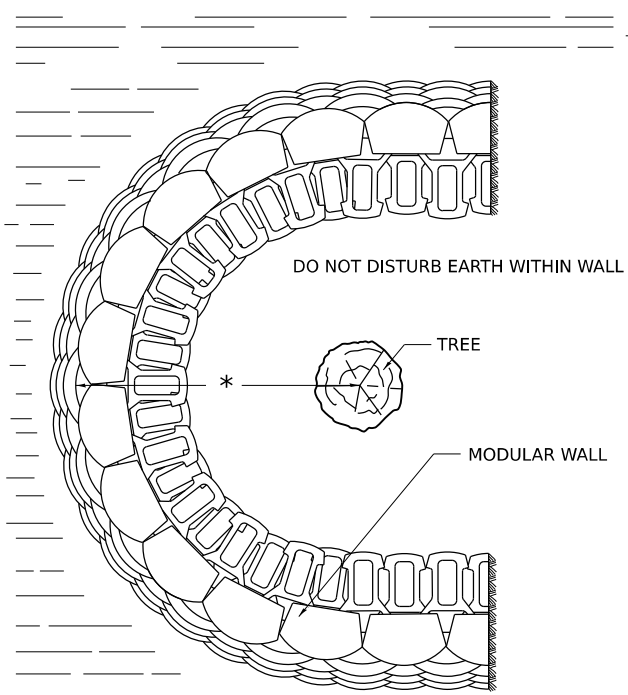
GEOTECHNICAL FABRIC FOR FRENCH DRAINS (ON ALL SIDES EXCEPT FORESLOPE)

FRENCH DRAIN DETAIL

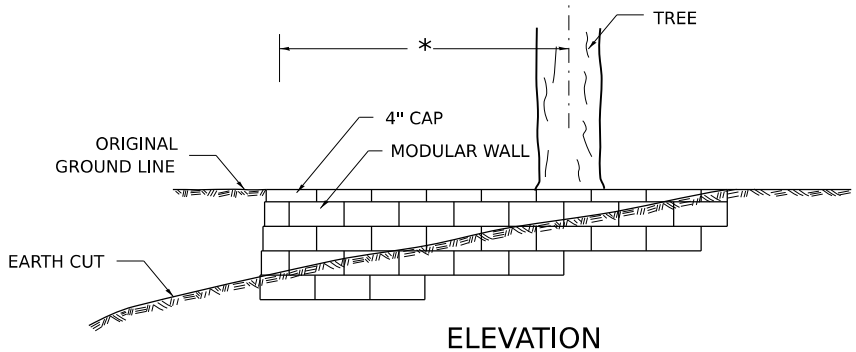
MODEL: 51pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 11-01-21	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

TREE WALL



PLAN



ELEVATION

HEIGHT OF WALL DEPENDENT ON SLOPE OF THE CUT.

* THE RADIUS OF THE TREE WALL SHALL BE DETERMINED BY MULTIPLING 6 BY THE DIAMETER OF THE TREE, WITH A MAXIMUM OF A 12 FOOT RADIUS.

USE 8" HIGH BLOCKS EXCEPT WHEN HEIGHT OF WALL IS LESS THAN 24", THEN 4" HIGH BLOCKS SHALL BE USED.

NOTES

SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR NOT TO DISTURB THE EARTH OR THE ROOTS WITHIN THE PROPOSED TREE WALL.

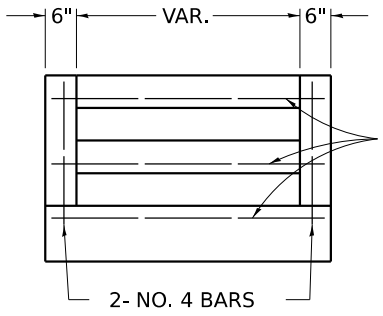
THESE TREE WALLS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "SEGMENTAL CONCRETE BLOCK WALL" INCLUDED IN THIS SHALL BE THE FACE OF THE WALL THAT ARE BURIED.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

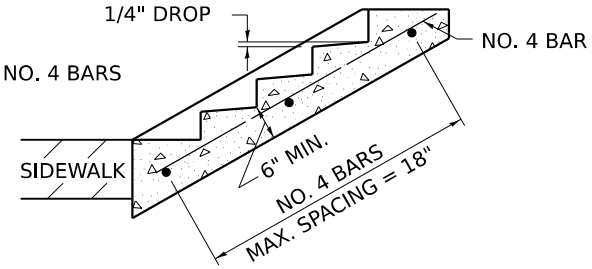
MODEL: 70pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-03-11	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -									
REVISED -							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

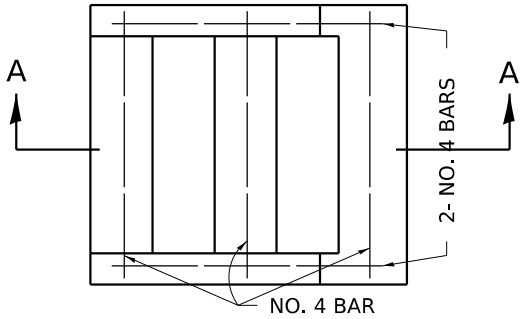
DETAIL OF CONCRETE STEPS



END ELEVATION



SECTION A-A



PLAN

TABLE OF TREADS & RISERS

SLOPE	TREAD	RISER
1:2	12"	6"
1:3	15"	5"
1:4	17"	4 1/4"

WHERE SLOPES FALL BETWEEN THOSE SHOWN IN THE TABLE ABOVE, THE STAIR RAIL SHOULD FIT THE SLOPE AND THE TREAD IN INCHES x THE RISER IN INCHES SHOULD BE BETWEEN 72 AND 78.

EXAMPLE:

FOR A 1:4 SLOPE USE y = RISER HEIGHT $4y = 7\frac{2}{2}$".
SOLVING $y = \frac{75"}{4}$, y= 4.3" (USE 4 1/4" FOR CONVENIENCE.)

TREAD WOULD THEN BE 4 1/4" x 4 = 17"

COST OF REINFORCEMENT BARS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LBS FOR REINFORCEMENT BARS.

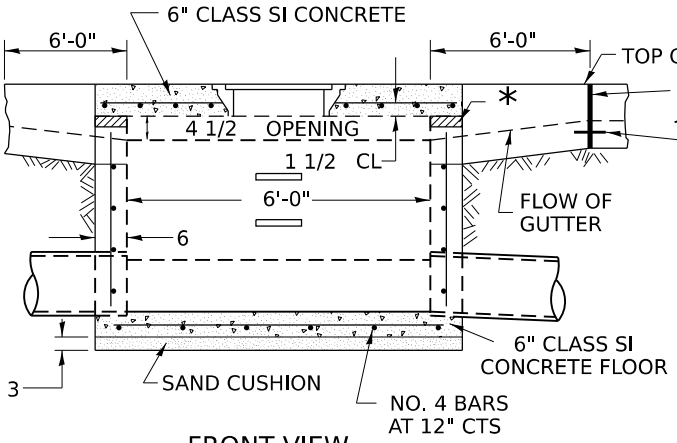
CLASS SI CONCRETE SHALL BE USED THROUGHTOUT, WHICH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE STEPS

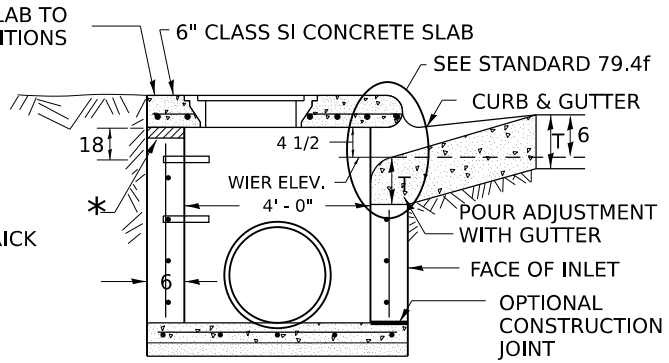
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 71pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 8-27-13	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 10-03-11						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

INLETS, SPECIAL, NO. 3





STEPS AT 12 TO 16 CTS.

*THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FRONT VIEW

SEE STANDARD 602701 FOR DETAILS OF STEPS.

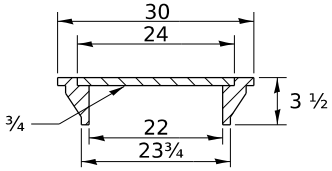
1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLETS, SPECIAL, NO. 3 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 160 LBS.

NOTES

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 3 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

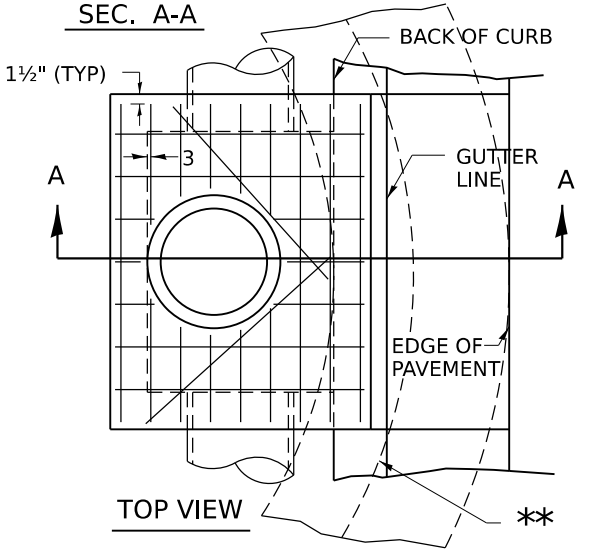
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 3 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

SEC. A-A



**WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

MODEL: 79pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED -	1-05-16
REVISED -	8-27-13
REVISED -	10-03-11
REVISED -	

REGION 2 / DISTRICT 2 STANDARD

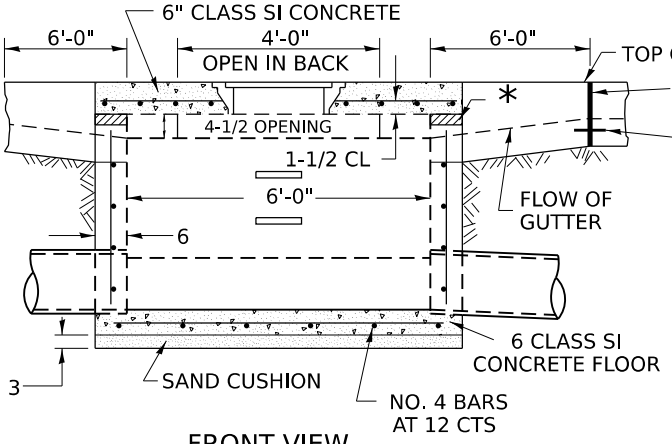
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

INLETS, SPECIAL, NO. 4

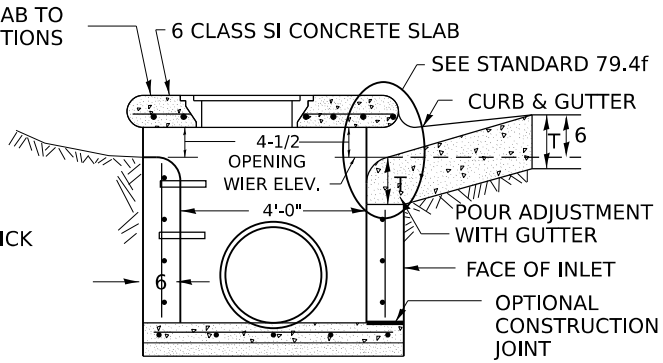


FRONT VIEW

STEPS AT 12 TO 16 CTS.

*THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



SEC. A-A

NOTES

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 4 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 4 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

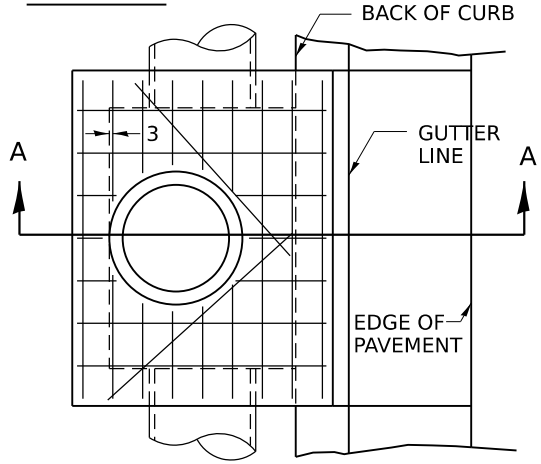
SEE STANDARD 602701 FOR DETAILS OF STEPS.

1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

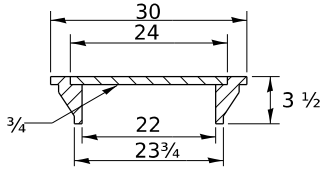
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLETS, SPECIAL, NO. 4 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g



TOP VIEW

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 160 LBS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED -	1-05-16
REVISED -	8-27-13
REVISED -	10-04-11
REVISED -	

REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

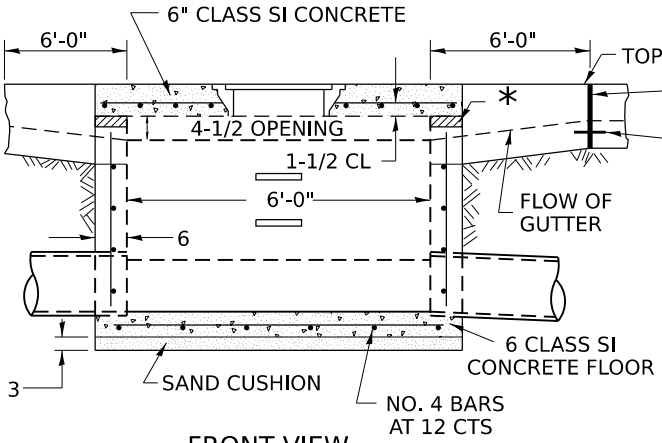
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

MODEL: 79pt4a
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

INLETS, SPECIAL, NO. 5



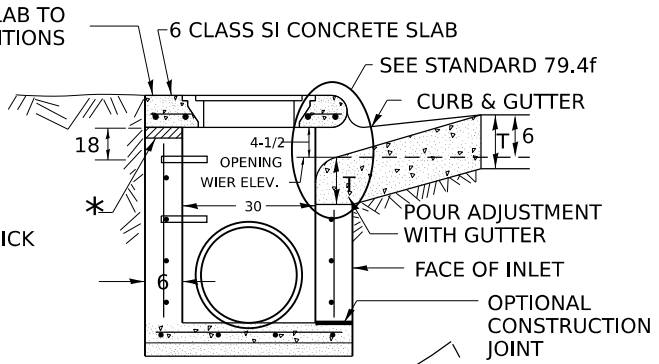
FRONT VIEW

STEPS AT 12 TO 16 CTS.

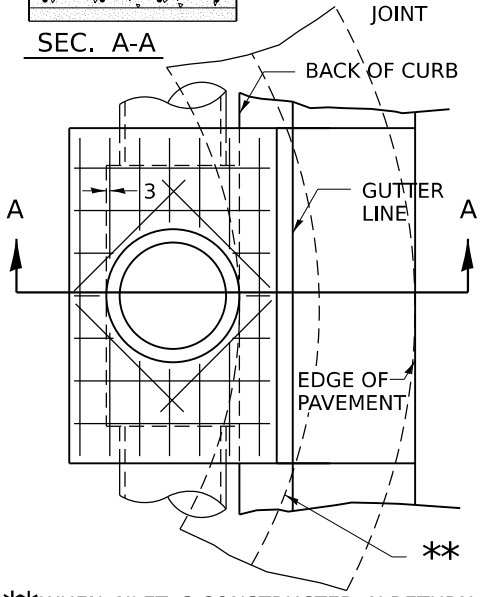
*THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SEC. A-A



**WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

NOTES

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 5 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 5 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

SEE STANDARD 602701 FOR DETAILS OF STEPS.

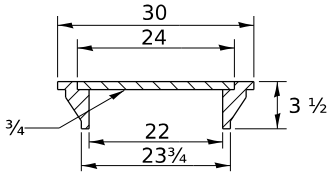
1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLETS, SPECIAL, NO. 5 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g

LIGHT WEIGHT MANHOLE CASTING

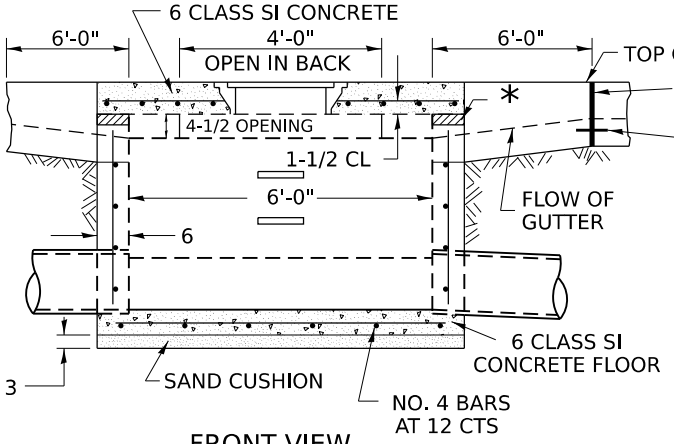


TOTAL WEIGHT 160 LBS.

MODEL: 79pt4b
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 8-27-13									
REVISED - 10-04-11							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

INLETS, SPECIAL, NO. 6

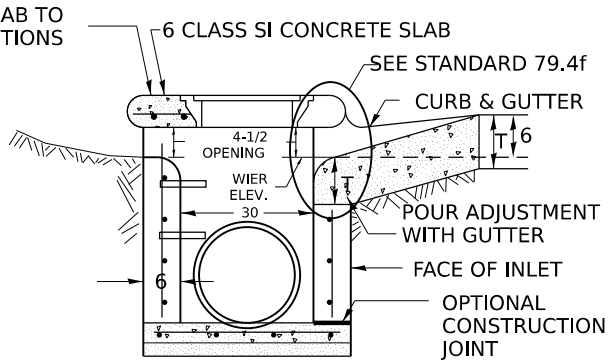


FRONT VIEW

STEPS AT 12 TO 16 CTS.

*THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



SEC. A-A

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLETS, SPECIAL, NO. 6 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 6 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

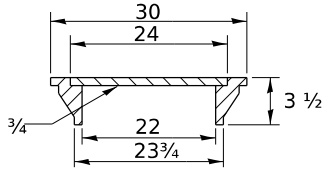
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 6 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

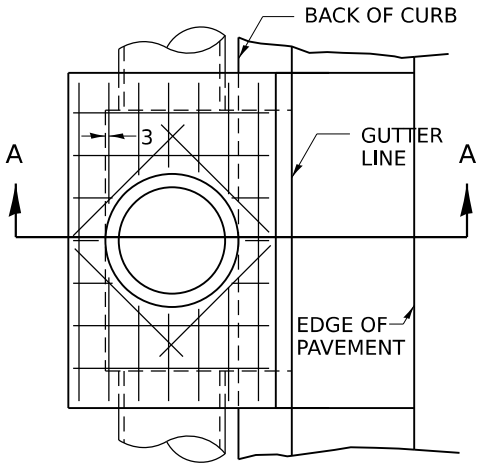
THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 160 LBS.



TOP VIEW

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED -	1-05-16
REVISED -	8-27-13
REVISED -	10-05-11
REVISED -	

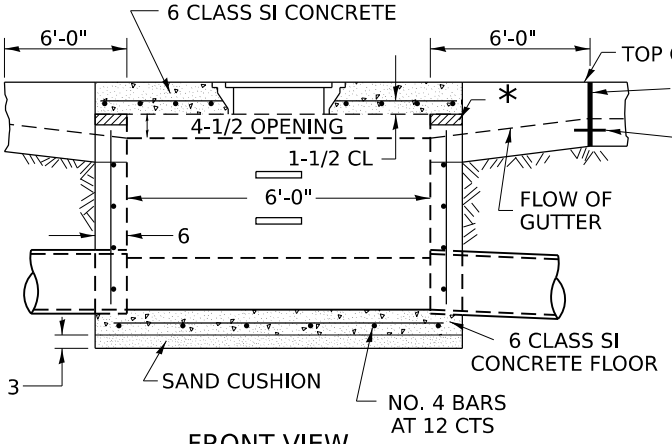
REGION 2 / DISTRICT 2 STANDARD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

MODEL: 79pt4c
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

INLETS, SPECIAL, NO. 7



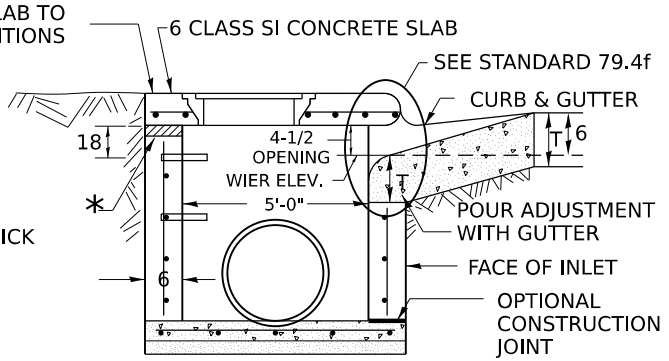
FRONT VIEW

STEPS AT 12 TO 16 CTS.

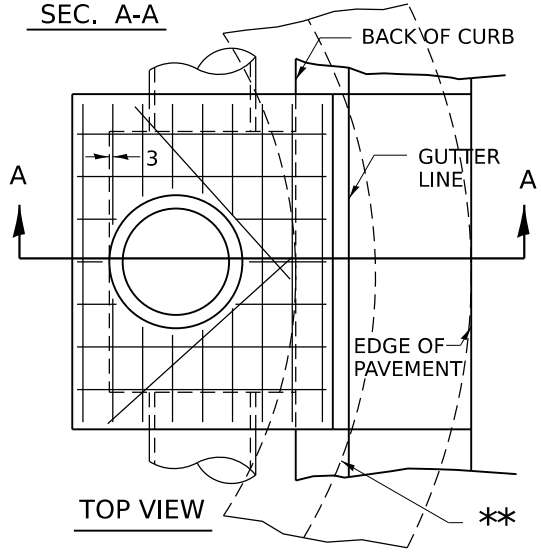
*THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SEC. A-A



TOP VIEW

**WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLETS, SPECIAL, NO. 7 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4h

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 7 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

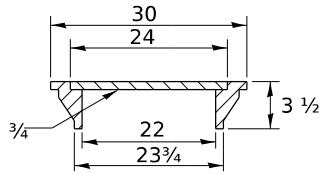
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 7 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

LIGHT WEIGHT MANHOLE CASTING

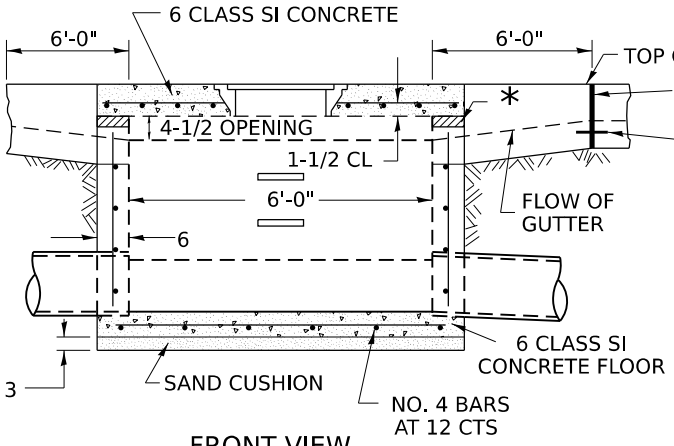


TOTAL WEIGHT 160 LBS.

MODEL: 79pt4d
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 8-27-12									
REVISED - 10-05-11							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

INLETS, SPECIAL, NO. 8



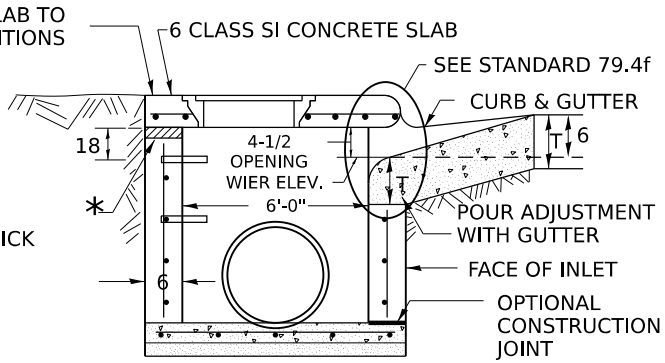
FRONT VIEW

STEPS AT 12 TO 16 CTS.

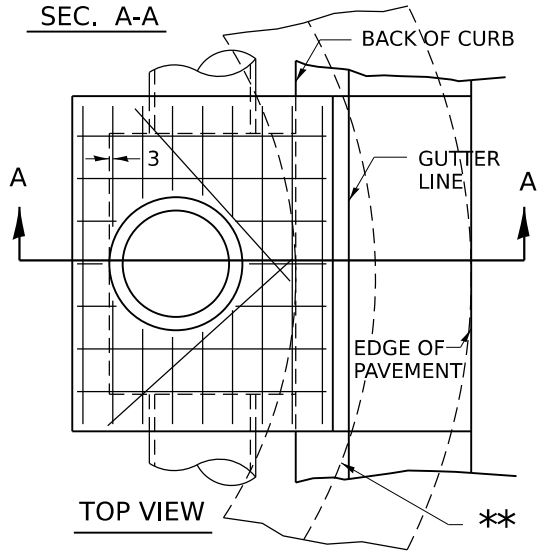
*THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



SEC. A-A



TOP VIEW

**WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLETS, SPECIAL, NO. 8 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4h

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 8 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

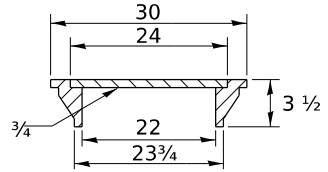
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 8 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

LIGHT WEIGHT MANHOLE CASTING

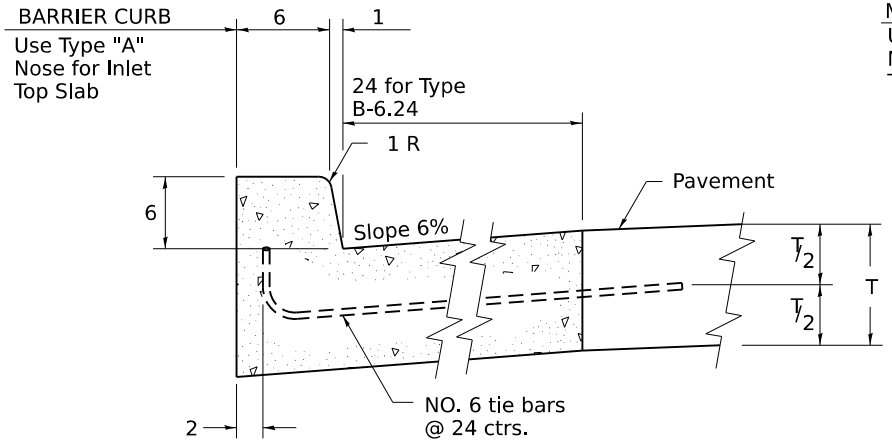


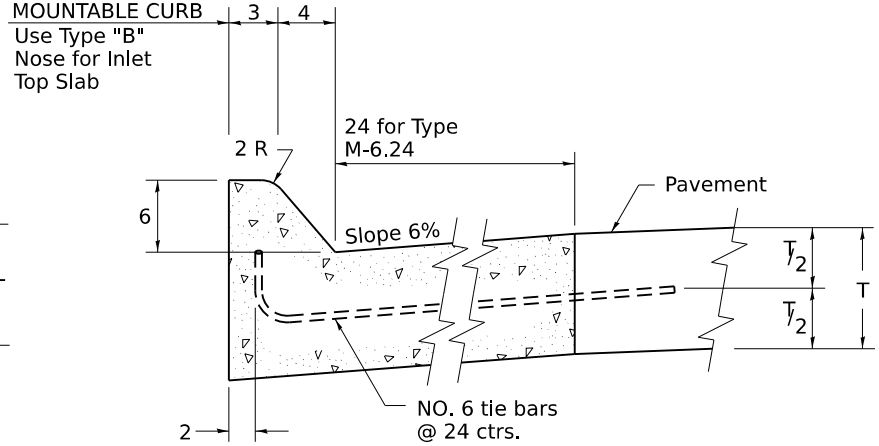
TOTAL WEIGHT 160 LBS.

MODEL: 79pt4e
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 8-27-13									
REVISED - 10-05-11							CONTRACT NO.		
REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

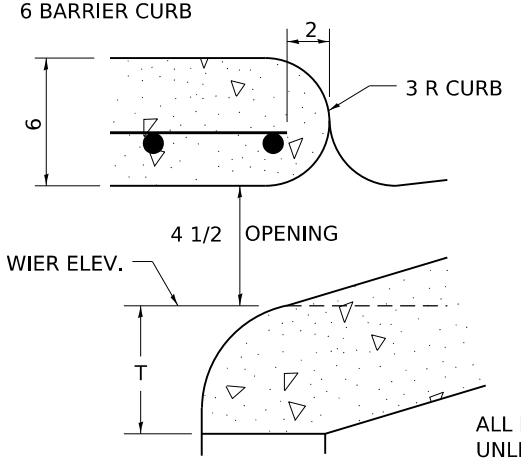
NOSE TYPE FOR INLET TOP SLAB





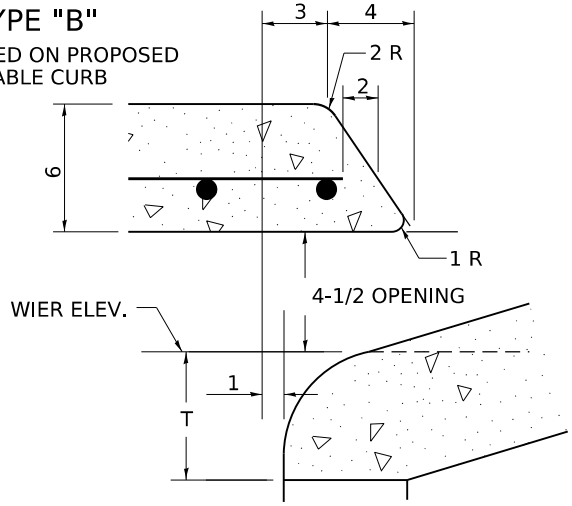
TYPE "A"

TO BE USED ON EXISTING OR PROPOSED
6 BARRIER CURB



TYPE "B"

TO BE USED ON PROPOSED
6 MOUNTABLE CURB

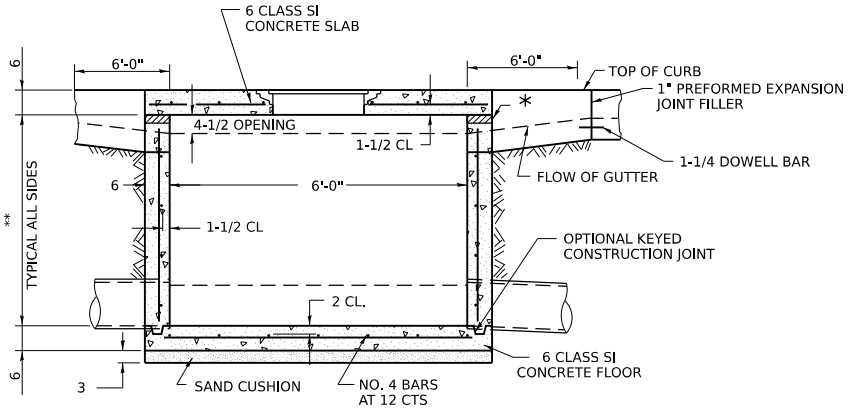


ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

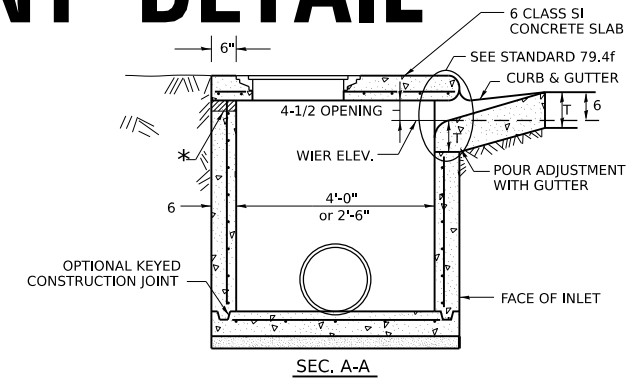
MODEL: 79pt4f
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 4-14-15	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-05-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

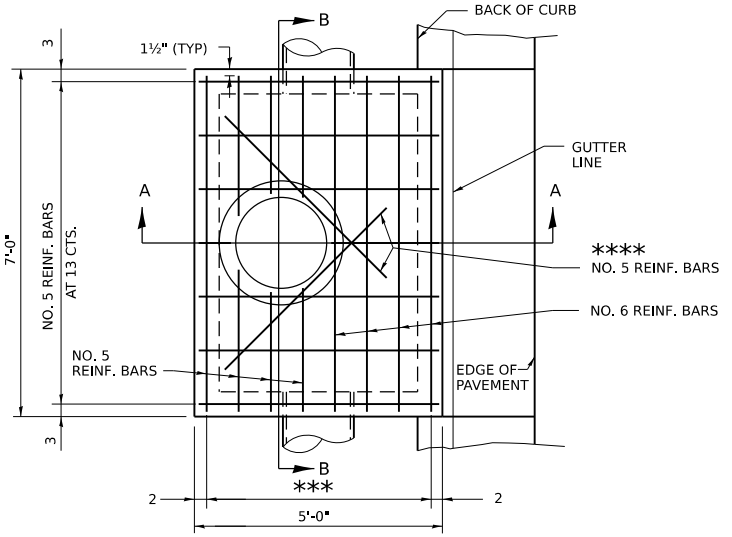
INLETS, SPECIAL, NO. 3, 4, 5, 6 REINFORCEMENT DETAIL



SEC. B-B



SEC. A-A



TOP VIEW

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

** 4'-0" TO 8'-0" -
NO. 5 REINF. BARS AT 12 CTS. E.W.
8'-0" TO 13'-0" -
NO. 5 REINF. BARS AT 10 CTS. E.W.
13'-0" TO 15'-0" -
NO. 5 REINF. BARS AT 8 CTS. E.W.

*** 7 SPA. AT 8" INLET SPECIAL # 3, 4
5 SPA AT 7-5/8" INLET SPECIAL # 5, 6

**** 2 REBARS FOR INLET SPECIAL 3 & 4 @ 65"
4 REBARS FOR INELT SPECIAL 5 & 6 @ 24"

NOTES

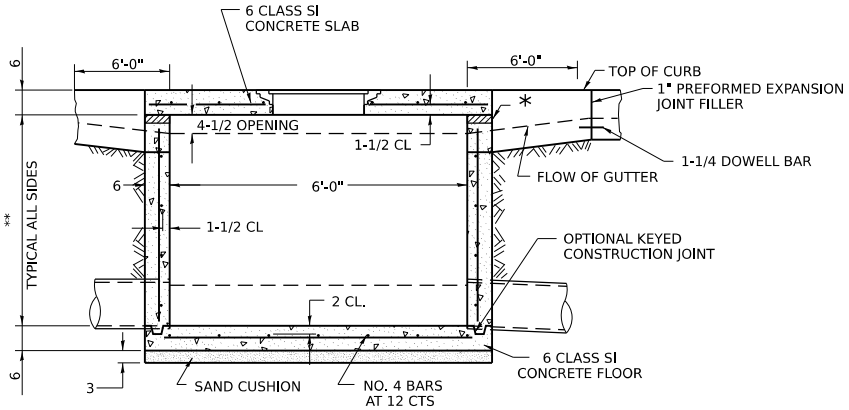
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

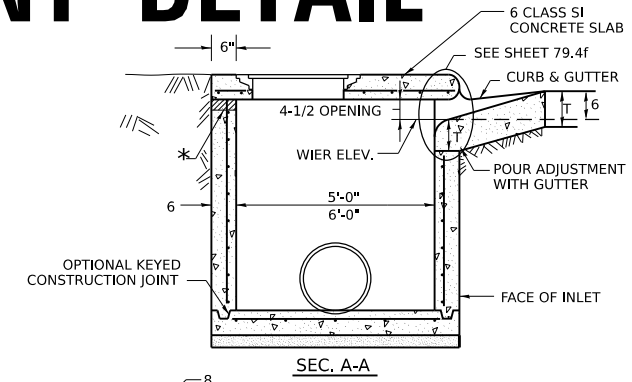
TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

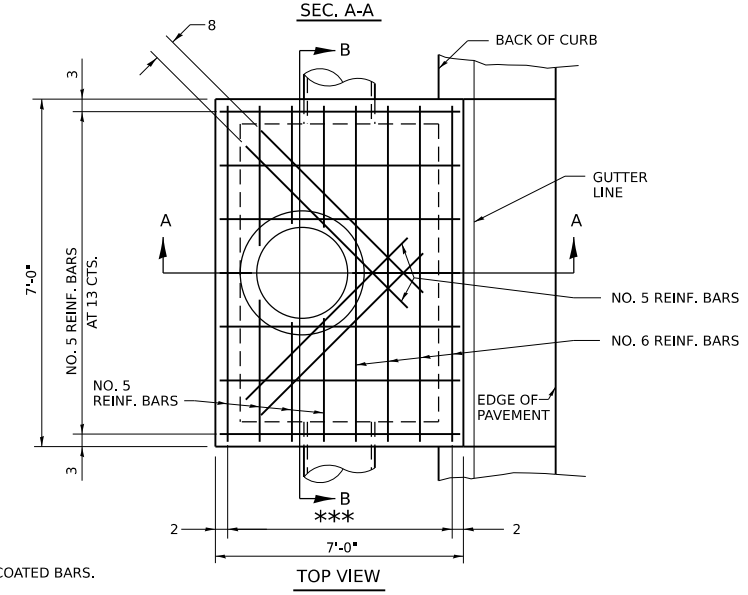
MODEL: 79pt4g
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 4-13-16	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 8-27-13									
REVISED - 10-05-11								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

INLETS, SPECIAL, NO. 7 & 8 REINFORCEMENT DETAIL







* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

** 4'-0" TO 8'-0" -
NO. 5 REINF. BARS AT 12 CTS. E.W.
8'-0" TO 13'-0" -
NO. 5 REINF. BARS AT 10 CTS. E.W.
13'-0" TO 15'-0" -
NO. 5 REINF. BARS AT 8 CTS. E.W.

*** NO. 5 REINFORCEMENT BARS 10 SPA @ 8"

NOTES

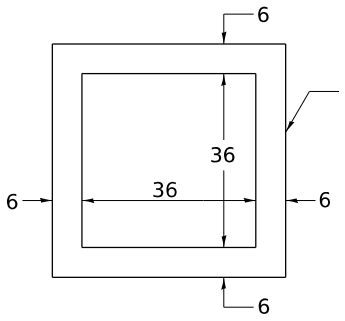
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

MODEL: 79pt4h
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

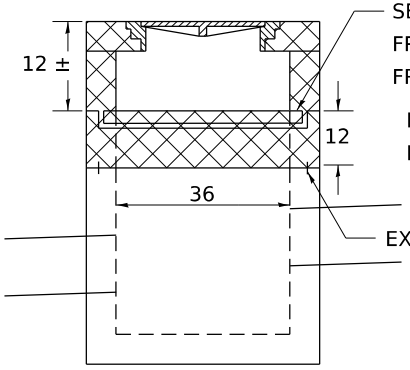
REVISED - 4-13-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 8-27-13									
REVISED - 10-05-11								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

INLETS TO BE RECONSTRUCTED WITH NEW STANDARD 542546 FRAME AND GRATE



SEE STANDARD 542546 FOR FRAME PLACEMENT DETAILS

PLAN VIEW



SEE STANDARD 542546 FOR DETAILS OF FRAME & GRATE AND PLACEMENT OF FRAME IN CONCRETE

REMOVE 12 BELOW PROPOSED DITCH ℄

EXPANSION TIE ANCHORS 5/8 (2 PER SIDE)

NOTES:

THIS WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD 542546 AND THIS DETAIL.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. THE PROPOSED TOP CAN BE CAST IN PLACE OR PRECAST.

THE EXISTING FRAME & GRATE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

THE CONCRETE SHALL BE REMOVED BY DRILLING, CHIPPING, SAWING, OR OTHER METHOD APPROVED OF BY THE ENGINEER.

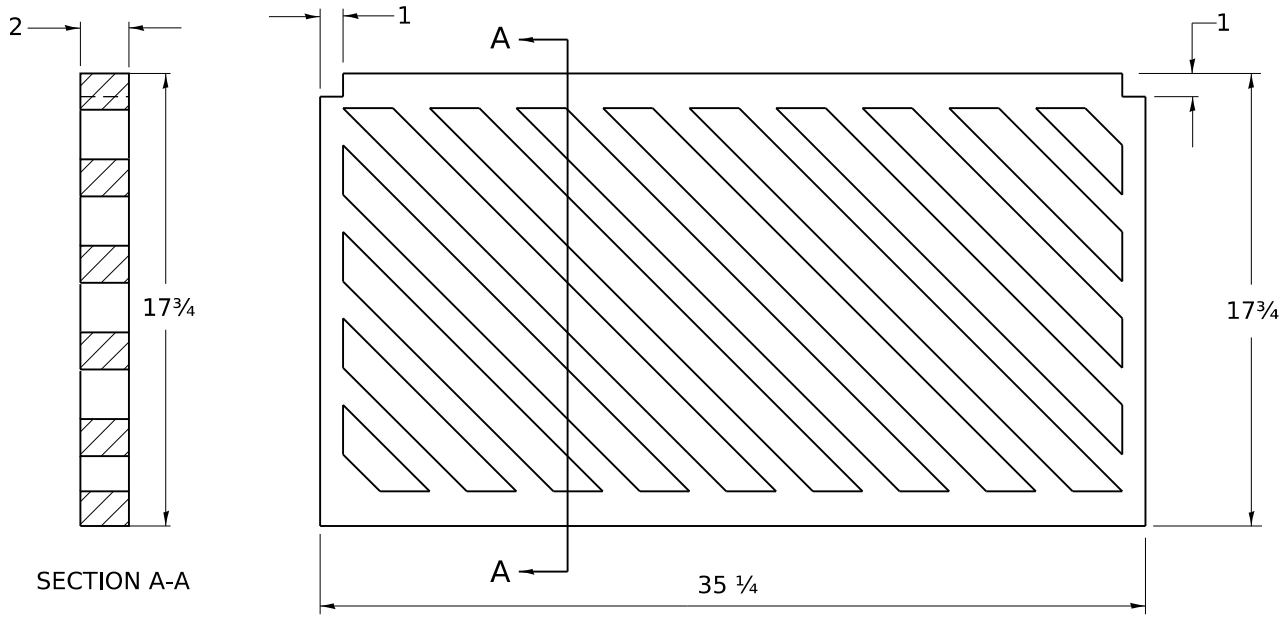
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLETS TO BE RECONSTRUCTED WITH NEW STANDARD 542546 FRAME AND GRATE WHICH SHALL INCLUDE REMOVING THE FRAME & GRATE & CONCRETE, EXPANSION TIE ANCHORS, CLASS SI CONCRETE, AND FURNISHING & INSTALLING FRAME & GRATE (EITHER STEEL OR DUCTILE IRON).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 80pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-05-11	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -					
REVISED -				CONTRACT NO.	
REVISED -	SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS	FED. AID PROJECT

GRATE, SPECIAL



SECTION A-A

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

PLAN VIEW OF CAST IRON GRATE

1-3/8 DIAGONAL BARS WITH
1-1/4 OPENINGS

NOTES

THE CONTRACTOR SHALL FIELD CHECK THE SIZE OF THE EXISTING GRATE BEFORE ORDERING THE NEW GRATE TO INSURE THE CORRECT SIZE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR SPECIAL GRATE NO. 1.

THE EXISTING GRATES ARE TO BE SALVAGED AND TO BECOME THE PROPERTY OF THE .

MODEL: 83pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 10-05-11	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT	

GRATE SPECIAL **83.4**

TYPICAL MEDIAN CROSSOVER CLOSURE
(WITH EMERGENCY OPENING)

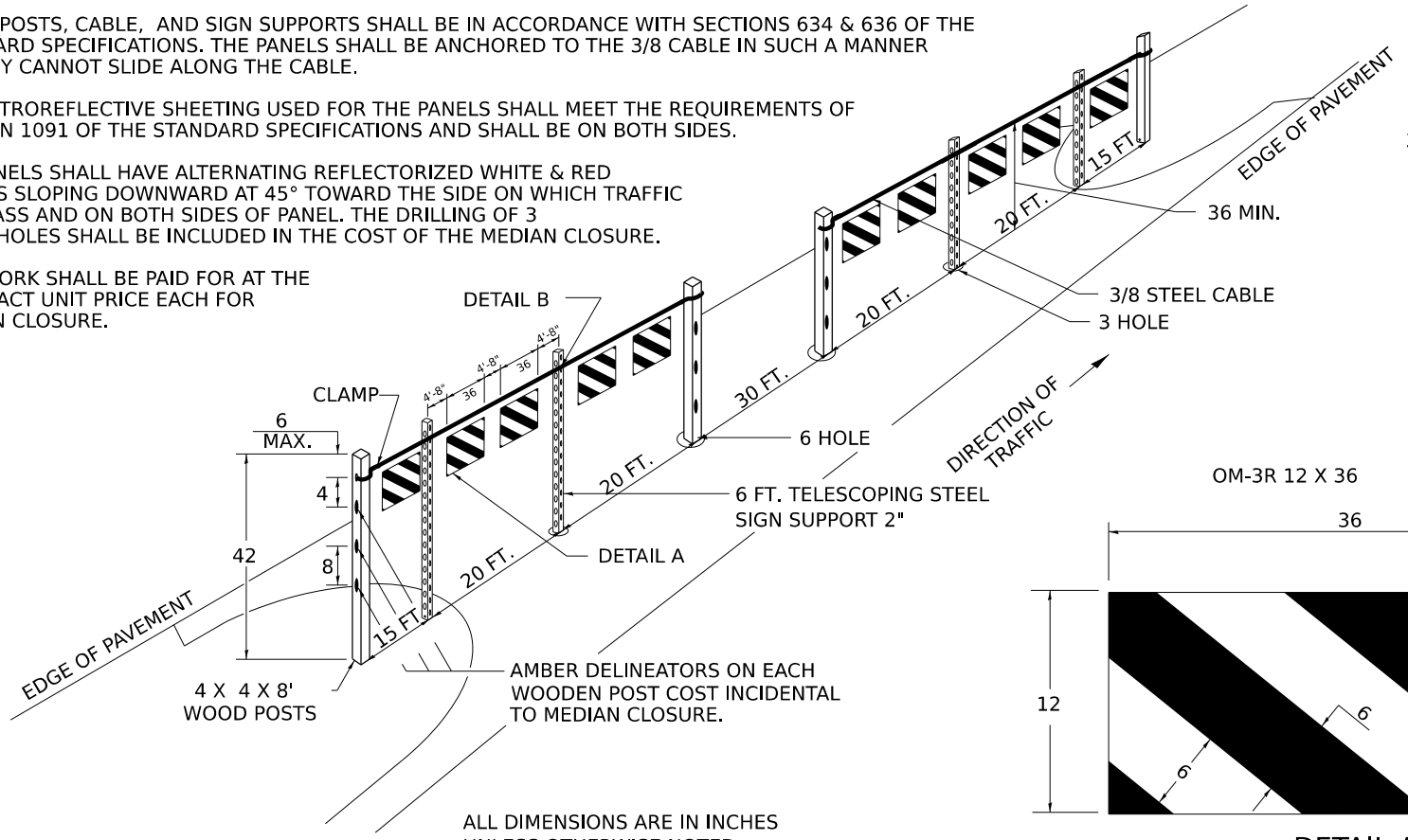
GENERAL NOTES

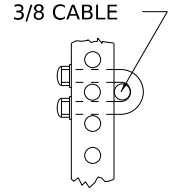
WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTIONS 634 & 636 OF THE STANDARD SPECIFICATIONS. THE PANELS SHALL BE ANCHORED TO THE 3/8 CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE RETROREFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS AND SHALL BE ON BOTH SIDES.

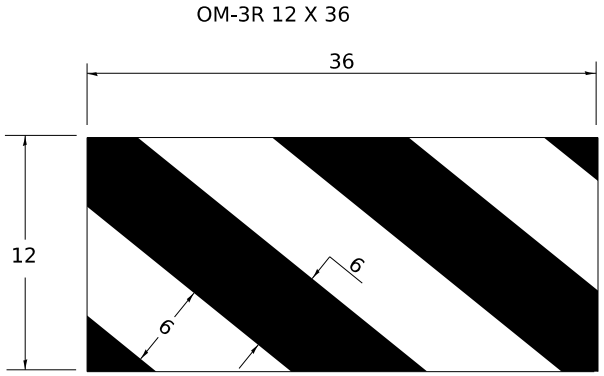
ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3 AND 6 HOLES SHALL BE INCLUDED IN THE COST OF THE MEDIAN CLOSURE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.





DETAIL B



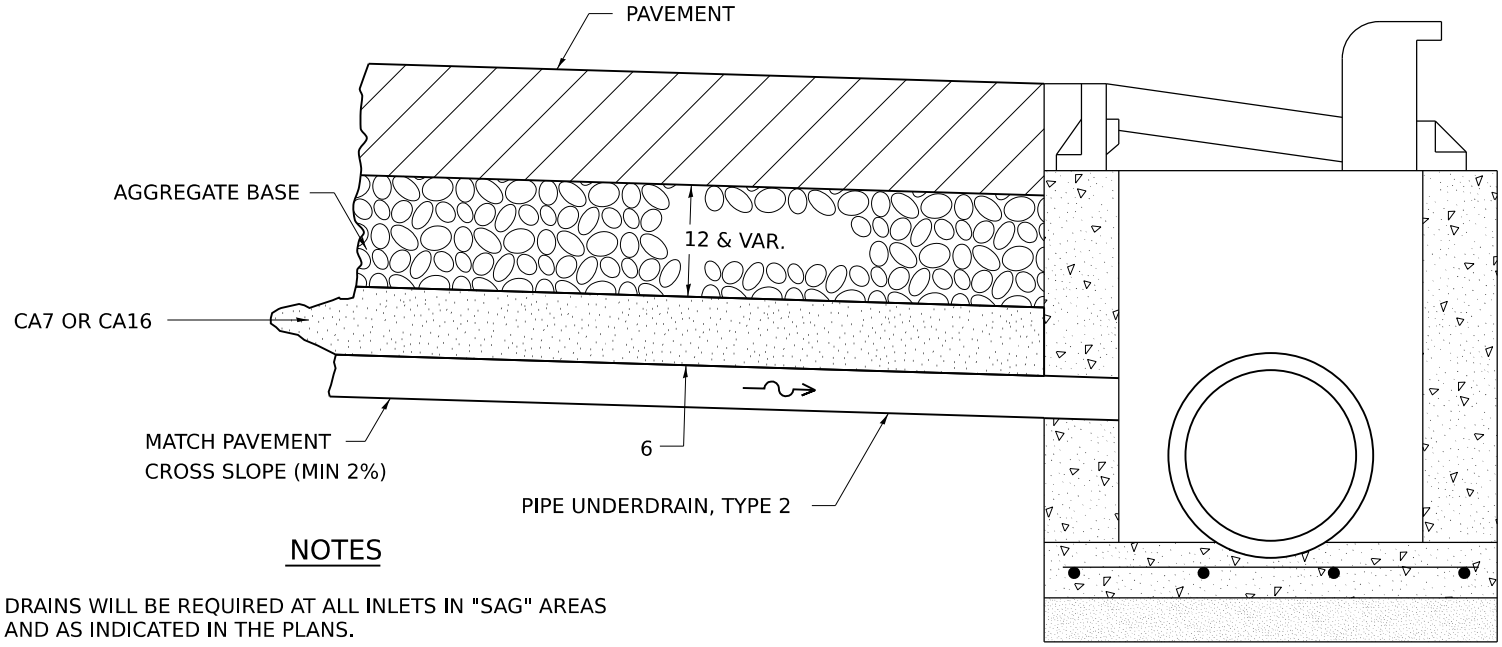
DETAIL A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 87pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 1-17-12									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

DRAIN FOR AGGREGATE BASES IN URBAN AREAS



NOTES

DRAINS WILL BE REQUIRED AT ALL INLETS IN "SAG" AREAS AND AS INDICATED IN THE PLANS.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

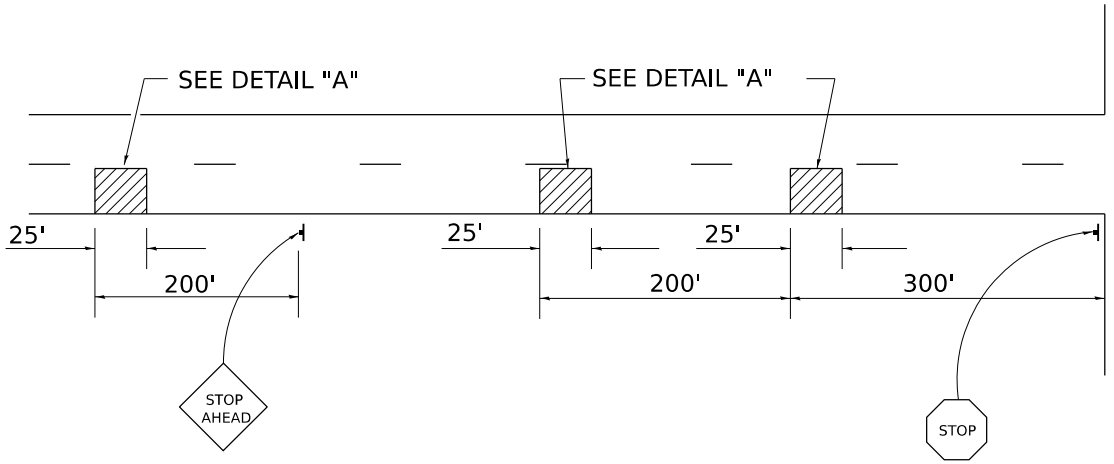
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS, TYPE 2 OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

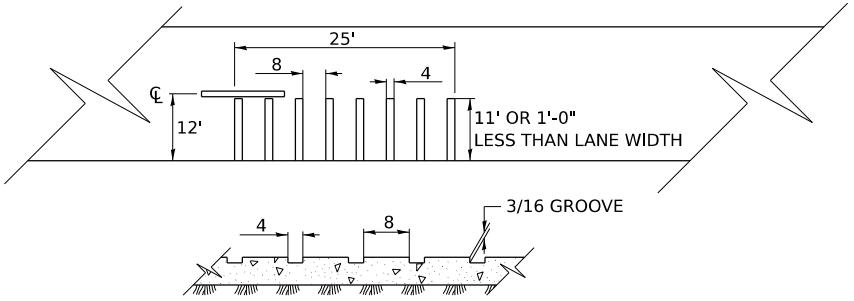
MODEL: 88pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-05-11									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

RUMBLE RESURFACING



GROOVED



DETAIL "A"

NOTES

THE GROOVES SHALL BE CONSTRUCTED WITH A MILLING MACHINE CAPABLE OF COLD MILLING THE EXISTING SURFACE IN THE PATTERN SHOWN.

RUMBLE RESURFACING SHALL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. THE LENGTH SHALL BE THE DISTANCE FROM OUTSIDE EDGE TO OUTSIDE EDGE OF THE GROOVE WHICH WILL BE APPROXIMATELY 25'. THE WIDTH SHALL BE 1' LESS THAN LANE WIDTH.

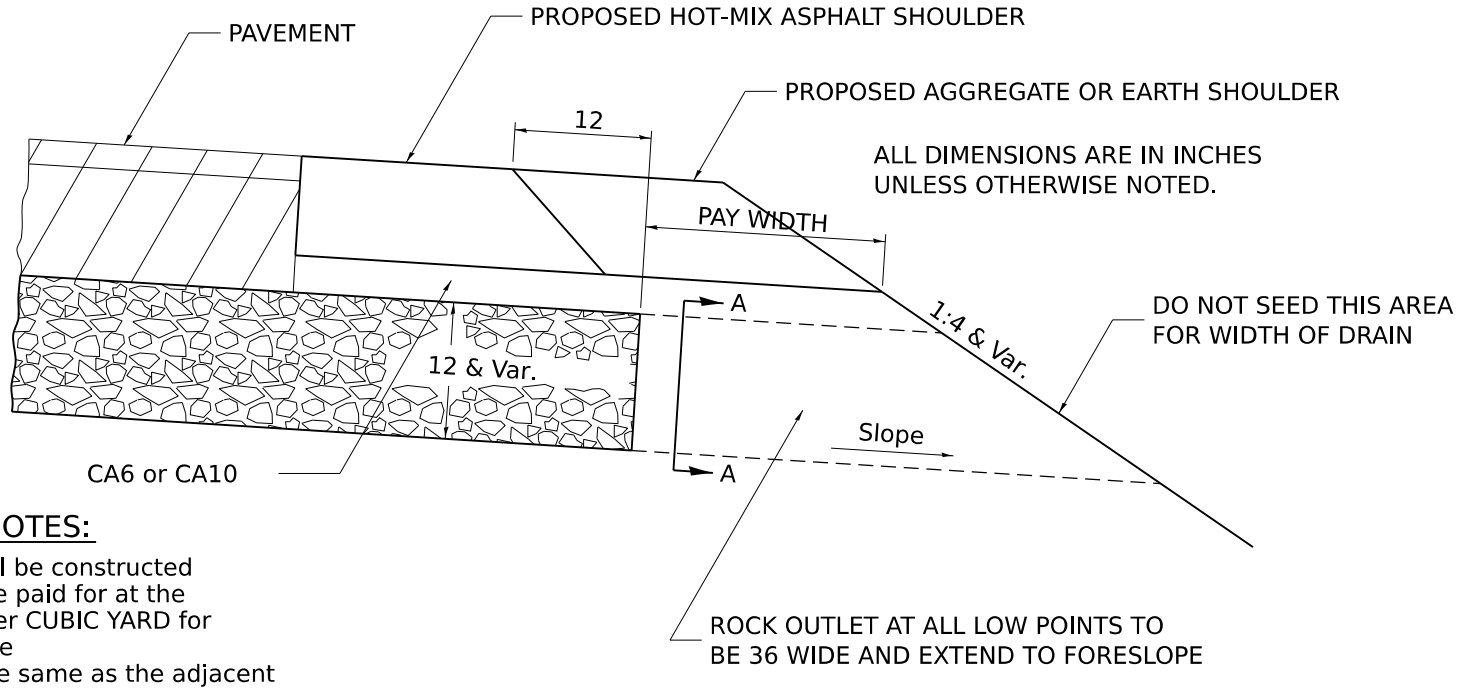
RUMBLE STRIPS SHALL BE CONSTRUCTED AS SHOWN AND PAID FOR PER SQUARE YARD AS RUMBLE RESURFACING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 91pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

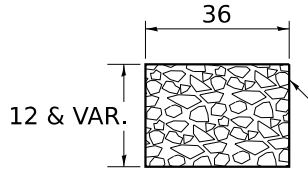
REVISED - 10-05-11	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -					
REVISED -				CONTRACT NO.	
REVISED -	SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS	FED. AID PROJECT

DRAIN FOR AGGREGATE BASE COURSE



NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per CUBIC YARD for FRENCH DRAINS. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in CU YD , the width being 36 by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per SQ. YD. for AGGREGATE SUBGRADE IMPROVEMENT of the thickness specified. The fabric to be used shall conform to the Geotechnical Fabric For French Drains.



Geotechnical Fabric For French Drains
(on all sides except the foreslope)

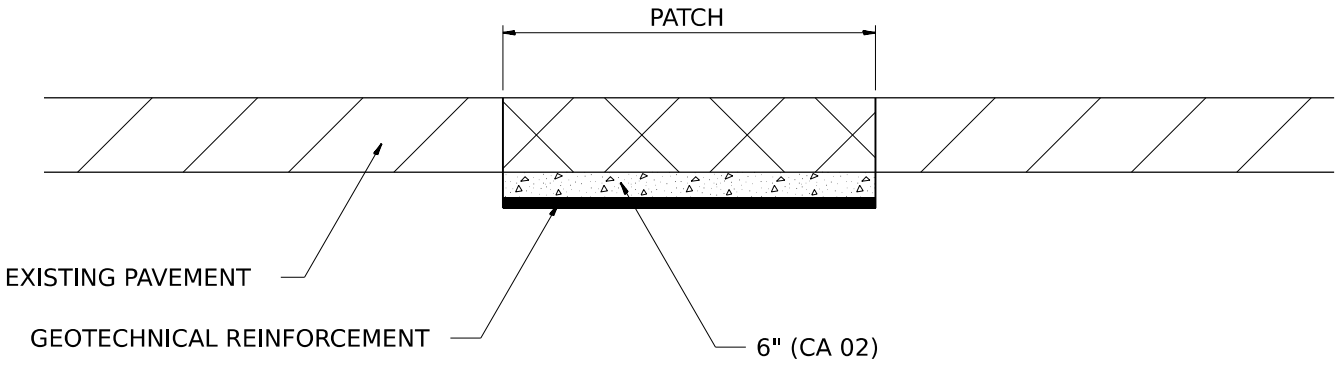
SECTION A-A

NOTE: Slope same as shoulder with 2% min.

MODEL: 96pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 8-27-13	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 10-09-12									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT

SUBGRADE REPLACEMENT



NOTES:

THE CA 02 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 02 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR AGGREGATE SUBGRADE IMPROVEMENT WHICH SHALL ALSO INCLUDE ALL EARTH EXCAVATION.

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 97pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 3-13-13	**REGION 2 / DISTRICT 2 STANDARD**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -					
REVISED -				CONTRACT NO.	
REVISED -	SCALE: / SHEET OF SHEETS / STA. / TO STA.			ILLINOIS	FED. AID PROJECT

TYPICAL MEDIAN CROSSOVER CLOSURE

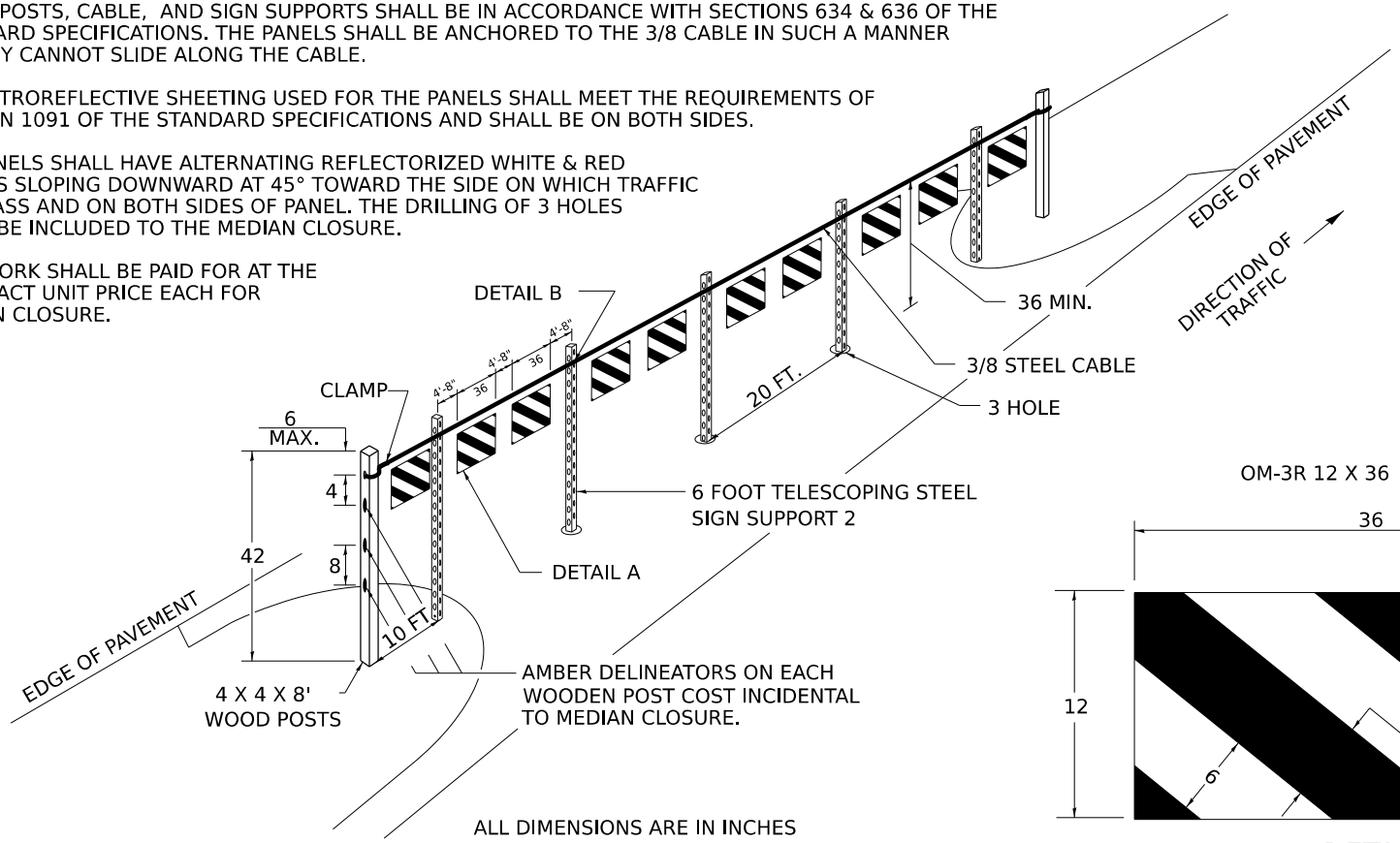
GENERAL NOTES

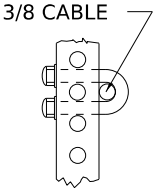
WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTIONS 634 & 636 OF THE STANDARD SPECIFICATIONS. THE PANELS SHALL BE ANCHORED TO THE 3/8 CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE RETROREFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS AND SHALL BE ON BOTH SIDES.

ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3 HOLES SHALL BE INCLUDED TO THE MEDIAN CLOSURE.

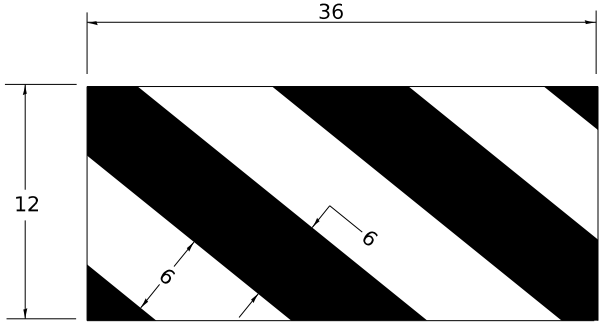
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.





DETAIL B

OM-3R 12 X 36



DETAIL A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: 98pt4
FILE NAME: DISTRICT 2 STANDARD
PLOT DATE = 4/17/2025

REVISED - 1-05-16	**REGION 2 / DISTRICT 2 STANDARD**					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - 1-16-12									
REVISED -								CONTRACT NO.	
REVISED -	SCALE:	SHEET	OF	SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT