



Small, Serene, Simply Garnett.

City Commission Meeting

AGENDA

June 14, 2022, 6:00 P.M.

- I. **Call to Order of the Regularly Scheduled City Commission Meeting (6:00 p.m.)**
 - A. Pledge of Allegiance
 - B. Invocation, Reuben Esh/Sam Stoltzfus, Beacon of Truth
- II. **Employee of the Month**
- III. **Public Hearing for the Redevelopment/TIF District**
 - A. Motion to Enter
 - B. Introductions/Citizens to be Heard (Five-Minute Limit Per Person)
 - C. Adjournment
- IV. **Citizens to be Heard (Five-Minute Time Limit Per Person)**
- V. **Governing Body Comments**
 - A. Student Representative Hayden Newton
 - B. Commissioner Cole
 - C. Commissioner Sheahan
 - D. Mayor Gwin
- VI. **Consent Agenda**
 - A. Approval of Minutes from May 24, 2022 Regular City Commission Meeting
 - B. Approval of Semi-Monthly Bills and Payroll in the amount of \$361,543.14
- VII. **Regular Business**
 - Consideration of the TODS Grant Program.
 - Consideration of Ordinance 4237 Amending Title 7, Chapter 3, Section 3 (C) and Section 4 of the Municipal Code.
- VIII. **Discussion Items**
 - Maple Street Project 98% Plans
 - Landbank work meeting
 - LibertyFest Gate Schedule
 - 34.5KV Reclosure
 - Sales Tax Discussion
 - Budget Workshop dates
- IX. **Informational Items**
 - A. "Dead Giveaway" live theatre performances, hosted by The Chamber Players Community Theatre, will be June 10-18.



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- B. Libertyfest Community Fireworks Display, hosted by the City of Garnett, will be Saturday, July 2nd with a tentative rain date of Saturday, July 9th.
 - C. Summer Sidewalk Sales, hosted by Morning Mingle, will be July 22-23.
 - D. Sprint Track Night Race, hosted by the KC Karting Association, will be held at the Lake Garnett Sprint Track on July 23.
- X. **Citizens to be Heard on Landbank (Five-Minute Time Limit Per Person)**
- XI. **Adjournment**

Employee of the Month



May 2022

*The City of Garnett recognizes
Betty Jasper*

in recognition of her dedication, passion and hard work.

Thank you, Betty, for your service to our community.

Signed *Chavis Wilson* *Date* *06/08/2022*

May 24, 2022
Garnett, Kansas

The Governing Body of the City of Garnett met in regular session on May 24, 2022, at 6:00 p.m. with the following individuals present; Greg A. Gwin, Mayor; Jody Cole and Jason Sheahan, City Commissioners; Terry J. Solander, City Attorney; and Travis Wilson, City Manager. Student Representative Hayden Newton and Trish Brewer, City Clerk were absent.

CALL TO ORDER

Mayor Gwin called the meeting to order at 6:00 p.m.

The Pledge of Allegiance was recited, followed by David Shrum, First United Methodist Church giving the invocation.

CITIZENS TO BE HEARD NOT PERTAINING TO LANDBANK

Lori Hicks spoke about her concerns about fireworks being shot off within 1,000 feet of the hospital and the affect it has on the patients and residents of the hospital.

Kenneth Hicks stated fifteen (15) years ago an officer told them they had to stop firing fireworks at the location where Dr. Hale's office currently is and expressed concerns of them being fired after hours.

Melanie Modlin stated she spoke with the Hospital Assistant Administrator about fireworks.

Don Moyer stated he has watched several fireworks shows that have gone on in the past.

Mark Magner spoke about freedom and celebration.

Wesley Keller spoke about the Molon Labe Truth events held on the courthouse lawn.

GOVERNING BODY COMMENTS

Student Representative Hayden Newton was absent.

Commissioner Cole appreciated McClure Engineering's report. She also stated the ACDA Board did not meet this month.

Mayor Pro-Tempore Sheahan – had no comments.

Mayor Gwin – had no comments.

CONSENT AGENDA

- **Approval of Minutes from the May 10, 2022, Regular City Commission Meeting.**
No questions. Commissioner Sheahan made a motion to approve the minutes from the May 10, 2022, Regular City Commission Meeting as written. Commissioner Cole seconded the motion. Motion passed (3 Aye / 0 Nay)

- **Approval of Semi-Monthly Bills and Payroll in the amount of \$160,887.00.**

Mayor Gwin made a motion to approve the Semi-Monthly Bills and Payroll in the amount of \$160,887.00. Commissioner Cole seconded the motion.

Motion passed (3 Aye / 0 Nay)

REGULAR BUSINESS

- **Consideration of Special Event Request from Melanie Modlin.** After discussion, Commissioner Sheahan made a motion to approve the Special Event Request. Commissioner Cole seconded the motion. Motion passed (3 Aye / 0 Nay)
- **Consideration of Ordinance 4235 Rezoning in Bronston Heights Addition.** After discussion, Commissioner Sheahan made a motion to adopt Ordinance 4235. Commissioner Cole seconded the motion. Motion passed (3 Aye / 0 Nay)
- **Consideration of Conditional Use Permit for Parkwood Day School.** After discussion, Commissioner Sheahan made a motion to approve the Conditional Use Permit for Parkwood Day School conditional on State licensing. Commissioner Cole seconded the motion. Motion passed (3 Aye / 0 Nay)
- **KMEA Q & A.** Members of KMEA gave a recap of the presentation they gave back in March and answered follow up questions from the City Commissioners.

Commissioner Sheahan made a motion to take a five (5) minute recess. Mayor Gwin seconded the motion. Motion passed (3 Aye / 0 Nay)

Mayor Gwin called the meeting back to order at 7:55 p.m.

CITIZENS TO BE HEARD ON LANDBANK

Harold DeForest spoke about K.S.A. 79-2803 (a) and how it outlines the sale of property.

Mark Powls read the elected official's oath of office. He also spoke on issues of property rights and property taxes.

Wesley Keller spoke about nullification of taxes and explained how it would eliminate the strain on homeowners and business owners. He also stated it will also drive economic growth.

Cheryl Urquhart spoke about the last tax sale and would like to see the process of the tax sale and information on the properties be made clearer and more ironed out. She stated by doing these things, the properties in the tax sale would get bought.

Paula Scott stated she reviewed everything that has been discussed about the landbank since 2019. She gave statistics on Garnett's housing and poverty demographics from the 2020 Census.

REGULAR BUSINESS PART II

- **Consideration of Ordinance 4236 Establishing a Landbank.** After discussion, Commissioner Cole made a motion to Establish a Landbank. Commissioner Sheahan seconded the motion. Motion passed (2 Aye / 1 Nay)

DISCUSSION ITEMS

City Manager Wilson gave an update on McClure Engineering.

City Manager Wilson gave an update on LibertyFest

City Manager Wilson gave an update on West 5th Property.

INFORMATIONAL ITEMS

- A. Garnett Remembers Patriotic Banners Celebration of Service Cruise Night, Town Square and Courthouse Lawn, hosted by Garnett Tourism will be held on May 26th.
- B. The Avenue of Flags, hosted by Garnett Parks & Recreation, will be May 27-30 at the Garnett Municipal Cemetery.
- C. Memorial Day Service, hosted by the American Legion Post 48/VFW Post 6397 will be held on May 30th at the Garnett Municipal Cemetery.
- D. The 6th Annual Southland Cruisers Car, Bike, & Truck Show, hosted by the Southland Cruisers Car Club, will be held on the Town Square on June 4th.
- E. Hot Wheels and Hot Deals, hosted by Morning Mingle, will be June 4th.
- F. The Kart Road Races, hosted by the Garnett Enduro Kart Club, will held at the Lake Garnett Road Course on June 4-5.
- G. “Dead Giveaway” live theatre performances, hosted by The Chamber Players Community Theatre, will be June 10-18.
- H. Libertyfest Community Fireworks Display, hosted by the City of Garnett, will be Saturday, July 2nd with a tentative rain date of Saturday, July 9th.

ADJOURNMENT

- With no further business before The Governing Body, Mayor Gwin made a motion to adjourn the meeting. Commissioner Sheahan seconded the motion.
Motion passed (3 Aye / 0 Nay)

Meeting adjourned at 9:16 p.m.

Mayor

Attest: _____
City Clerk

Garnett Tourism Advisory Committee
Meeting Minutes
June 7, 2022

The Garnett Tourism Advisory Committee met on Tuesday, June 7, 2022, in the Commission Room at City Hall. The meeting was called to order at 4:30 p.m. with the following members present: Tom Emerson, Jr., Chairman, Paula Wallace, Vice-Chair, and committee members Krystal Baugher, Michaela Read, and Nicole Stevenson. Also present were Susan Wettstein, Director of Community Development and Tourism and Kris Hix, Administrative Assistant. Committee members Laurel Ladewig and Helen Norman were absent.

Approval of Minutes

A motion was made by Tom Emerson, Jr. and seconded by Nicole Stevenson to approve the minutes of April 5, 2022 as written. The motion passed unanimously (5-0).

Financial Report

The Transient Guest Tax Fund cash balance as of May 31, 2022, is \$75,957.52. This includes the May disbursement from the State of \$3,523.02. Of the \$25,000 budgeted for Local TGT Grant Fund, \$22,850.50 has been granted leaving a balance of \$2,149.50 available. The balance of In-House Marketing as of May 31 is \$6,400 and Programs at \$2,500 as budgeted.

Old Business

Tourist-Oriented Directional Sign (TODS) Program:

Director Susan Wettstein presented the proposed application for the program. Funding for this grant program would be taken from the In-House Marketing line item until such time an increase in the budget for the Programs line item can be considered. The ideal budget for the program would be \$4,000. This is a first-time, one-time only, fifty-percent (50%) up to \$375 per "location structure" grant opportunity. Susan asked committee members for suggestions on changes or additions to be made to the application. A couple of typos were addressed. Susan asked if the Committee was in favor of granting for one (1) sign/location structure or the maximum of three (3) per applicant. The consensus was to allow this grant funding for the applicant to have signage at all three proposed locations (N. Highway 59, N. Highway 169, and S. Highway 169) should they desire with a maximum reimbursement of up to \$375 per highway structure. She asked if an annual grant deadline of October 1 could be established so that reimbursement could perhaps be made in the same year the application is accepted for budget purposes. The consensus was "yes". Upon no further discussion a motion was made by Nicole Stevenson and seconded by Krystal Baugher to recommend this grant program be approved by the City Commission. The motion passed unanimously (5-0).

New Business

Transient Guest Tax Request (Non-Marketing), Hope Anthem Garnett, Faith and Blue Event:

Hope Anthem Church of Garnett submitted a TGT request in the amount of \$2336.80, which would include 16 tables, a popcorn machine, four-burner cooking griddle, and bounce house to be utilized at this event. The committee discussed what the Non-Marketing Application is, and how it is used. The committee reviewed the submitted application and began discussions on if this event application qualified under the criteria. Discussion included that the remaining TGT funds available for local grants this year total \$2,149.50, which is less than the amount requested on the application. There is yet one more 2022 New Event Contest winner planning to request TGT funds. It was noted that during the discussion last year with the Commission that the 2022 New Event Contest winners were awarded a minimum of \$1,000 in approved TGT funds. It was difficult to request and use those funds by the end of 2021 and therefore, additional funds could be requested from the Commissioners in 2022, if necessary, by a budget amendment or otherwise. The committee discussed whether the event would bring visitors to town; that the application states "This event should draw many local people and help with community involvement." The committee agreed the tables could be considered beneficial to the event organizers, who also put on the Easter Festival (Egg Hunt) and the Fall Festival (Halloween) events, which draw visitors from around the county for multiple events, including this new Faith and Blue event. Chairman Tom Emerson, Jr. made a motion to table this application so that Director Susan Wettstein can provide direction to Hope Anthem on what information is required for a completed form. The motion was seconded by Nicole Stevenson. The motion passed unanimously (5-0).

Staff Reports

Director Susan Wettstein provided weekly staff reports.

Other

Director Susan Wettstein shared advisory committee information and Chairman Tom Emerson, Jr., Vice-Chair Paula Wallace, and Committee Member Nicole Stevenson terms would expire December 31, 2022. Director Susan Wettstein stated she would also reach out to committee member Laurel Ladewig about her continued involvement.

Adjournment

With no other business to come before the committee, Chairman Tom Emerson, Jr. made a motion to adjourn the meeting. Krystal Baugher seconded the motion. The motion passed unanimously (5-0). The meeting adjourned at 5:20 p.m.

The next meeting will be held on July 5, 2022.

Minutes respectfully submitted by Kris Hix, Administrative Assistant.



Request for Funding through Transient Guest Tax Revenue Tourist Oriented Directional Signage (TODS) Grant Program

Please read the following information thoroughly before completing the application.

Definition of Transient Guest Tax:

A tax collected by lodging establishments from their overnight guests that is remitted to the Kansas Department of Revenue on behalf of the city. Ninety-eight percent (98%) of the tax is returned to the city for use in promoting tourism. The remaining 2% is kept by KDOR to offset the cost of administering the tax. The current transient guest tax rate as set forth by city charter ordinance is: 6%.

Purpose of Funds:

The purpose of transient guest tax funds is to promote tourism and bring visitors to Garnett and Anderson County. This grant program encourages Gas, Food, Lodging, Campground/RV Parks, and Attractions businesses to participate in the Tourist Oriented Directional Sign Program (TODS) on designated sign structures located, or to be located, as vehicles approach the Garnett city limits on U.S. Highway 59 and U.S. Highway 169. The more businesses featured on these signs, the more likely for travelers to stop in Garnett.

This grant program is a reimbursable grant allowing half of the initial signage expenses equaling the first year's participation expense up to and including one (1) sign and (1) directional sign, up to a total of three (3) structure locations, as approved by the Kansas Department of Tourism, Kansas, Kansas Logos and the Kansas Department of Transportation. Transient Guest Tax Funds will reimburse those costs as follows:

- \$240 toward the approximate \$480 annual sign fee;
- \$75 toward the approximate \$150 setup fee;
- \$60 toward the approximate \$120 directional sign fee.

Total reimbursement not to exceed \$375 of the approximate \$750 fees per structure location.

Requirements:

1. Please review the Kansas Tourism Signage Application Kit attached to this application, specifically pages 6-8 and application pages 22-27. Note: Garnett Community Development and Tourism is the designated Destination Management Organization (DMO).

2. If doing business as a Gas, Food, Lodging or Campground/RV Park, please contact Kansas Logos, 785.272.1771. If an Attraction, please contact Kansas Tourism Signage Manager, 785.296.4654 for instructions before submitting application.
3. Complete the attached application for reimbursement fund through the City of Garnett Tourist Oriented Directional Signage Grant Program and include a copy of the TODS application you plan to submit through Kansas Logos or Kansas Tourism. You may drop off the documents at City Hall or send to Garnett Tourism, 131 W. 5th Avenue, P.O. Box H, Garnett, KS, 66032, or email tourism@garnettks.net. Please note, application for this grant must be made prior to submission of application to state entity to be sure funds for this grant year are still available.
4. Grant funding requests will only be considered for first-time applicants, on a first come, first serve basis until funding is no longer available.
5. Approval process will go through the Garnett Tourism Committee with funds for this grant coming from the Transient Guest Tax Programs Fund.
6. Submit the TODS application through Kansas Logos or if an Attraction, through the Kansas Tourism.
7. The grant application period begins January 1 to October 1 annually.

If approved, the following documentation is required:

1. A copy of supporting documents (invoice and proof of payment) must be turned into Garnett City Hall for reimbursement and a check for the amount requested will be issued.
PLEASE NOTE: Reimbursement is for approved expenses outlined in this application. Please review *Purpose of Funds*.

Timeline: It may take up to 30 days for approval by the Garnett Tourism Committee. The timeline for approval by state entities and project installation 12+ weeks if existing sign structure is in place, and up to 8 months if new sign structure is to be constructed.

Questions? Please contact Garnett Tourism, Garnett City Hall,
785.448.5496, Extension 7.

APPLICATION TO FOLLOW



-Official Use-
Date Received _____
Tourism Y/N _____
Report Received _____

**Request Form / Application
for Funding through Transient Guest Tax Revenue
Tourist Oriented Directional Signage (TODS) Grant Program**

Date of Application: _____

Name of Business: _____

Tax Number or EIN: _____

Representative:
(Contact Person) _____

Address: _____

City/State/Zip: _____

Contact Person's Business Telephone: _____

E-mail Address: _____

Website and social media addresses: _____

Doing Business as:

- A Gas/Convenience Store
- Food Establishment
- Lodging
- Campground/RV Park
- Attraction – Please specify: _____

Placement Preference:

Please indicate the TODS structure you will to be a part of:

_____ U.S. Highway 59 North (On the north side of Garnett, outside city limits, southbound side of highway)

_____ U.S. Highway 59 South (South of roundabout, northbound side of highway)

_____ U.S. Highway 169 North (On the northeast side of Garnett, outside city limits, southbound side of highway)

You may choose to participate in more than one location.

Please check this Checklist:

- _____ I have reviewed the Kansas Tourism Signage Application Kit attached.
- _____ I have called to verify I meet the qualifications to participate in the TODS Program. If doing business as a Gas, Food, Lodging or Campground/RV Park, please contact Kansas Logos, 785.272.1771. If an Attraction, please contact Kansas Tourism Signage Manager, 785.296.4654.
- _____ I have completed the City of Garnett Tourist Oriented Directional Signage Grant Application
- _____ I have completed and attached to the City of Garnett's grant application the TODS Application I plan to submit to the State entity (Kansas Logos or Kansas Tourism).
- _____ I understand that this is a reimbursement grant. I must pay all costs associated with my TODS Application and submit proof of invoice and payment to the City of Garnett in order for reimbursement up to \$375 per structure location, maximum of three (3). Once reimbursement documentation is received payment will be processed and mailed within 30 days.

Thank you for making application to this program and for your efforts to bring visitors to our community.

Sincerely,

The Garnett Tourism Committee

KANSAS TOURISM SIGNAGE APPLICATION KIT TO FOLLOW
TODS Signage Application included in Kit.



Tourism Signage Application Kit



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What is the Tourism Signage Program?

The Tourism Signage Program was developed to increase awareness for travelers and residents of tourism operations and attractions. The Tourism Signage Program also ensures that road signage for tourism attractions is consistent with road safety and other road and traffic objectives, and provides effective guidance in directing tourists and visitors to tourism facilities.

This application kit was developed to provide Kansas businesses, attractions, tourist destinations and other specific points of interest with a single source of reference if they desire to have their location identified on a road sign along the state controlled and maintained roadway system to provide the motorist with directional guidance and information about their location.

Why is tourism signing important?

Tourism signs complement standard directional signs to assist safe and efficient travel for visitors seeking particular destinations or areas of interest. These signs help to promote tourism, ensuring that visitors can travel safely to locate and enjoy all that the State of Kansas has to offer. Effective tourism signs can mean the difference between visitors stopping to explore a town or attraction or just driving through. Tourism signs inform road users of tourism attractions and also increase the frequency and quantity of tourist visits.

Tourism signs are not just for promotional purposes—they are used to help visitors who are already aware of the attraction through brochures and advertising and also for those travelers who may not be aware of an attraction. These signs will be used to physically locate the tourism attraction that can provide the tourist with a meaningful experience.

What types of tourism signs are available?

Kansas offers three (3) tourism sign opportunities – Tourist Oriented Directional Signs (TODS), Supplemental Guide Signs, and Attraction Logo Signs. To see which type you may qualify for see page 4.

- Tourist Oriented Directional Signs (TODS) are available along two-lane and four-lane rural roadways with intersections for tourist-oriented attractions, gas, food, lodging and camping services.
- Supplemental Guide Signs are available along four-lane roadways with interchanges or intersections and two-lane roadways with interchanges if designated as a national/international attraction.
- Attraction Logo Signs are available along interchanges on interstates, freeways, expressway interchanges and bypass interchanges.

EXAMPLES OF ELIGIBLE ATTRACTIONS:

Agri-Tourism*

Agribusiness
Farmers Market
Nurseries/Greenhouses
Orchards
Winery

Arts/Cultural

Gallery
Kansas-Made Art/Craft
Center
Museum
Theatre

Historical

Historic Areas
Historic Building
Historic Cemetery
Historic District
Historic Mansion
Historic Memorials
Historic Museum
Historic Site

Outdoor

Boat Landings/Marinas
Campgrounds
Hunting Facilities
Natural Attraction
Natural Resource
Park - National
Park - Municipal
Park - Privately Owned
Park - Regional
Recreational Area
Retreat Centers/Camps

Retail Tourism

Antique Businesses
Bed and Breakfast (1)
Brewery
Distillery
Restaurants (2)

Science/Nature

Aquarium
Arboretum
Botanical Garden
Zoo

Sports/Entertainment

Amphitheater
Amusement Park
Concert Hall
Equestrian Center
Fairground
Golf Course
Race Track
Theme Park
Water Oriented Business

*Must be a registered Agri-Tourism operation through Kansas Tourism.

- (1) Shall be a member of the Kansas Bed & Breakfast Association (KBBA)
- (2) Shall not be a franchise or part of a national chain

NON-ELIGIBLE ATTRACTIONS

The exclusion only relates to qualification under these categories. These facilities may participate if qualifying under another acceptable category.

Business/Commercial

Adult Entertainment
Facilities
Funeral Homes
Industrial Parks or Plants
Media Facilities
Movie Theaters
Office Parks
Radio Stations
Television Stations
Truck Terminals

Governmental

Local Jails
Local Police/Sheriff Offices
Post Offices

Medical

Drug Rehabilitation Facilities
Extended Care Facilities
Fraternal Homes
Hospitals
Humane Facilities
Infirmaries
Mental Facilities
Nursing Homes
Retirement Homes
Treatment Centers
Veterans Facilities

Miscellaneous

Animal Shelters
Cemeteries
Mobile Home Parks
Subdivisions
Veterinary Facilities

Religious

Cathedrals
Chapels
Churches
Mosques
Shrines
Synagogues
Temples
Other Religious Sites

Attraction Criteria

The type of signage you qualify for will be determined by national, statewide, or local importance. To find out which category your attraction fits in, your attraction must meet the minimum criteria listed below.

A - Local

- At least one-third of the visitors come from beyond 25 miles of the attraction.
- Annual attendance is 2,000 or greater. (If you do not meet this minimum requirement, please state the reason on your application.)

B - State/Regional

- At least one-third of the visitors come from beyond 100 miles of the attraction.
- Annual attendance is 10,000 or greater.

C - National/International

(For this category you must show proof of national/international designation from a legitimate source)

- At least one-third of the visitors come from beyond 200 miles of the attraction.
- Annual attendance is 25,000 or greater and registered as a national park/site/area.

Following is a matrix to help determine which type of tourism sign you could qualify for. Specific signing policies and eligibility criteria required for each type of sign is discussed on the following pages.

	TODS	Supplemental Guide Signs	Attraction Logo Signs
2-Lane Intersections	A, B, C		
4-Lane Intersections	A, B, C	A, B, C	
4-Lane Interchanges		B, C	A, B, C
2-Lane Interchanges		C	A, B, C

*For definitions of terms please see page 18.

Tourist Oriented Directional Signs – TODS



What are Tourist Oriented Directional Signs?

Tourist Oriented Directional Signs (TODS) are official blue guide signs posted at rural intersections on two-lane or four-lane conventional roadways for tourist-oriented attractions, gas, food, lodging and camping services. The business may be located either within or outside of a municipality while the TODS shall be installed at rural intersections on conventional roadways outside of the limits of a municipality.

Gas, food, lodging and camping businesses must complete an application and be approved by Kansas Logos, Inc., to participate in the TODS Program. The eligibility criteria for gas, food, lodging and camping services can be found on the Kansas Logos, Inc. website at www.kansas.interstatelogos.com, along with application information.

Tourist Oriented Attractions must complete an application (Page 22) and be approved by Kansas Tourism to participate in the TODS program.

Upon approval of your attraction or service, all participants are required to contract with Kansas Logos, Inc., a private contractor for the Kansas Department of Transportation (KDOT), and pay an annual fee which includes the installation and maintenance of the TODS.

TODS Criteria for Tourist Oriented Attractions

- Shall have a minimum annual attendance of at least 2,000 visitors. (If you do not meet this minimum requirement, please state the reason on your application.)
- Shall be of significance to tourists and derive a major portion of income or visitors from motorists not residing in the area of the facility during the normal business season.
- Shall be categorized as Agri-Tourism, Arts/Cultural, Historical, Outdoor, Science/Nature, Sports/Entertainment, or Retail Tourism.
- Shall provide sufficient staff to allow for a significant experience for the traveling tourist.
- Shall be in operation during at least an eight (8) consecutive week period each year, a minimum of six (6) hours, five (5) days a week of which one day should be a Saturday or Sunday, excluding holidays.
- Shall be listed on the www.TravelKS.com website, and are encouraged to participate in other Kansas Tourism Co-Op Opportunities found here: <https://www.travelks.com/travel-industry/marketing-and-pr/marketing-opportunities>.
- Shall submit an annual attendance report to Kansas Tourism.
- Shall submit a letter of support by the local Destination Management Organization (DMO), i.e. Convention & Visitors Bureau, Chamber of Commerce, or Economic Development Office.
- Shall have the name of the business prominently displayed on the premises in such a manner that it is readily visible to motorists from the public highway on which the facility is located.
- Shall provide modern restroom facilities, drinking water and public access to a telephone for emergency purposes.
- Shall provide for parking on site or have available parking for 10 vehicles or whatever is suitable for the specific attraction within two (2) blocks of the attraction. Bus parking must also be available.
- Shall provide clearly for display any general admission charges at the place of entry to the attraction.

- Shall be licensed and approved by the appropriate state and/or local agencies regulating the particular type of business or activity.
- Shall comply with all applicable laws concerning the provision of public accommodations without regard to age, race, religion, color, sex, national origin, or accessibility by the physically handicapped.
- Shall agree to abide by all rules, regulations, policies, procedures and criteria associated with the program. If it is determined that the attraction no longer meets the criteria established by the Kansas Division of Tourism, the signs will be removed.

TODS Policies

- Tourist Oriented Attraction shall be located within fifteen (15) miles of the nearest two-lane or four-lane conventional roadway intersection as measured from sign placement to the nearest edge of the business' driveway.
- Driveways will not be signed for.
- TODS assemblies may only be installed within public right of way maintained by the KDOT at rural two-lane and four-lane intersections.
- TODS shall have up to four panels for the purpose of displaying the business identification of and directional information for eligible facilities. Each panel shall be rectangular in shape and shall have a white legend and border on a blue background. The message "TOURIST ACTIVITIES" shall be placed above all panels.
- When there are more businesses eligible for signing within the mileage limit than number of spaces permitted on TODS, those businesses nearest the intersection will be given first priority for signing in the order of Tourist Oriented Attractions, Gas, Food, Lodging and Camping.
- The content of the legend on each panel shall be limited to two (2) lines of text for business identification, and directional information for not more than one eligible business, service, or activity facility. The legends shall not include promotional advertising.
- Seasonal businesses may participate in the TODS program, if the opening season is for a minimum consecutive 8 week period. The seasonal month(s) shall be the 2nd line of legend on the TODS business panel.
- Trailblazing signage, if required, would need to be approved by the proper local jurisdiction.
- The location of other traffic control devices shall take precedence over the location of TODS.

TODS Fee Structure

The applicant will be responsible for paying a base annual fee if approved for participation. This fee can be paid by monthly bank draft (ACH) at no additional cost to the business. These fees include installation and maintenance of the TODS panels.

Base Annual TODS and Advance TODS Fee

- \$480.00 per business panel, per direction
- \$240.00 per business panel, per direction for non-profit businesses

Base Annual Trailblazer Fee

- \$120.00 per Trailblazer panel
- \$60.00 per Trailblazer panel for non-profit businesses

Fabrication Fee

- \$150.00 one-time fee, per business panel, for the life of the business panel

Kansas Logos, Inc. and KDOT have established a unified billing date for all businesses and will charge a prorated initial annual fee amount based on the date of installation through June 30 of each year. All businesses are on a July 1 billing cycle.

Supplemental Guide Signs



What are Supplemental Guide Signs?

Supplemental Guide Signs are official brown guide signs available along four-lane roadways with interchanges or intersections and two-lane roadways with interchanges if designated as a national/international attraction.

The signs are for tourism attractions that fit in one of the following categories: Agri-Tourism, Arts/Cultural, Historical, Outdoor, Science/Nature, or Sports/Entertainment. *This does not include retail establishments or other community recreational services, i.e. golf courses, theaters, bowling alleys, shopping centers, etc.*

Criteria for Supplemental Guide Signs

- Shall have a minimum annual attendance of at least 2,000 visitors. (If you do not meet this minimum requirement, please state the reason on your application.)
- Shall be of significance to tourists and derive a major portion of income or visitors from motorists not residing in the area of the facility during the normal business season.
- Shall be open to the general public for at least one year.
- Shall be categorized as Agri-Tourism, Arts/Cultural, Historical, Outdoor, Science/Nature, or Sports/Entertainment.
- Shall provide sufficient staff to allow for a significant experience for the traveling tourist.
- Shall be in operation for a continuous twelve (12) months, a minimum of six (6) hours, five (5) days a week of which one day should be a Saturday or Sunday, excluding certain holidays.
- Shall be listed on the www.TravelKS.com website, and are encouraged to participate in other Kansas Tourism Co-Op Opportunities found here: <https://www.travelks.com/travel-industry/marketing-and-pr/marketing-opportunities>.
- Shall submit an annual attendance report to Kansas Tourism.
- Shall submit a letter of support by the local Destination Management Organization (DMO), i.e. Convention & Visitors Bureau, Chamber of Commerce, or Economic Development Office.
- Shall have the name of the business prominently displayed on the premises in such a manner that it is readily visible to motorists from the public highway on which the facility is located.
- Shall provide modern restroom facilities, drinking water and public access to a telephone for emergency purposes.
- Shall provide for parking on site or have available parking for 10 vehicles or whatever is suitable for the specific attraction within two (2) blocks of the attraction. Bus parking must also be available.
- Shall provide clearly for display any general admission charges at the place of entry to the attraction.
- Shall be licensed and approved by the appropriate state and/or local agencies regulating the particular type of business or activity.

- Shall comply with all applicable laws concerning the provision of public accommodations without regard to age, race, religion, color, sex, national origin, or accessibility by the physically handicapped.
- Shall agree to abide by all rules, regulations, policies, procedures and criteria associated with the program. If it is determined that the attraction no longer meets the criteria established by the Kansas Division of Tourism, the signs will be removed.

If you are unable to meet the above criteria, your application may be considered for the Attraction Logo Signs or the TODS signs.

Supplemental Guide Sign Policies

Only one travel attraction supplemental guide sign with two destinations per direction at an interchange is allowed. If the signing at an interchange is already at capacity, then no additional signing will be accepted.

If your attraction qualifies for supplemental guide signs, please refer to page 4 to determine which type of category you fall within. Following are the policies for each category:

Local

- Signed at one point on the state highway system.
- Signs must be within 30 miles of the attraction.
- No more than one set of signs allowed.
- Freeway (including interstates) and expressway interchange signing is not available.
- No highway trailblazing.

State/Regional

- Signed at up to two points on the state highway system.
- Signs must be within 60 miles of the attraction.
- When applicable, trailblazing is permitted from freeway/expressway to conventional highway only.

National/International

- Signed at up to three locations on the state highway system.
- Signs must be within 90 miles of the attraction.
- When applicable, trailblazing is permitted from freeway/expressway to freeway/expressway.
- If registered as a national park/site/area, the national logo may be used on the sign.

Supplemental Guide Sign Fee Structure

Attraction signing will be installed at the expense of KDOT at points on the State Highway System (SHS) only if approved by the district's budget. If there are not sufficient funds in the district of where the signs are being placed then the attraction may either pay for the signs or wait until the next fiscal year to see if funds are available.

Any off-system trail-blazing will be the responsibility of the attraction and local jurisdictions and must be installed before the highway signing is installed. (We do not want to send travelers off of the highway if there is not sufficient signing to find their destination once they leave the highway.)

Attraction Logo Signs



What are the Attraction Logo Signs?

Attraction Logo Signs are an eligible service category of the Logo Sign Program. Logo Signs are located at controlled access interchanges along Kansas' interstates, freeways, expressway interchanges and bypass interchanges.

Attractions must complete an application (page 22) and be approved by Kansas Tourism to participate in the Logo Sign program. After availability of sign space and approval of your attraction to participate has been verified, all participants will

be required to contract with Kansas Logos, Inc., a private contractor for KDOT, and pay an annual fee which includes the installation of your logo sign. Kansas Logos, Inc. will provide design assistance at no cost to the business, and a list of logo fabricators for production of the logo sign panels can be provided. Logo sign specifications may be found at www.kansas.interstatelogos.com.

Criteria for Attraction Logo Signs

- Shall have a minimum annual attendance of at least 2,000 visitors. (If you do not meet this minimum requirement, please state the reason on your application.)
- Shall be of significance to tourists and derive a major portion of income or visitors from motorists not residing in the area of the facility during the normal business season.
- Shall be categorized as Agri-Tourism, Arts/Cultural, Historical, Outdoor, Science/Nature, Sports/Entertainment, or Retail Tourism.
- Shall provide sufficient staff to allow for a significant experience for the traveling tourist.
- Shall be in operation during at least an eight (8) consecutive week period each year, a minimum of six (6) hours, five (5) days a week of which one day should be a Saturday or Sunday, excluding holidays.
- Shall be listed on the www.TravelKS.com website, and are encouraged to participate in other Kansas Tourism Co-Op Opportunities found here: <https://www.travelks.com/travel-industry/marketing-and-pr/marketing-opportunities>.
- Shall submit an annual attendance report to Kansas Division of Tourism.
- Shall submit a letter of support by the local Destination Management Organization (DMO), i.e. Convention & Visitors Bureau, Chamber of Commerce, or Economic Development Office.
- Shall have the name of the business prominently displayed on the premises in such a manner that it is readily visible to motorists from the public highway on which the facility is located.
- Shall provide modern restroom facilities, drinking water and public access to a telephone for emergency purposes.
- Shall provide for parking on site or have available parking for 10 vehicles or whatever is suitable for the specific attraction within two (2) blocks of the attraction. Bus parking must also be available.
- Shall provide clearly for display any general admission charges at the place of entry to the attraction.
- Shall be licensed and approved by the appropriate state and/or local agencies regulating the particular type of business or activity.

- Shall comply with all applicable laws concerning the provision of public accommodations without regard to age, race, religion, color, sex, national origin, or accessibility by the physically handicapped.
- Shall agree to abide by all rules, regulations, policies, procedures and criteria associated with the program. If it is determined that the attraction no longer meets the criteria established by the Kansas Division of Tourism, the signs will be removed.

Attraction Logo Signage Policies

- Attraction shall be located within fifteen (15) miles of the exit.
- Must have at least two qualified businesses to build a sign.
- Logo signs shall have up to six panels for the purpose of displaying the business identification of and directional information for eligible facilities.
- If limited space is available for displaying logo signs, priority will be given to eligible services in the following order; Gas, Food, Lodging, Camping, Attractions.
- The location of other traffic control devices shall take precedence over the location of logo signs.

Attraction Logo Fee Structure

Upon approval of your attraction, all participants are required to contract with Kansas Logos, Inc., a private contractor for the Kansas Department of Transportation, and pay an annual fee based on the traffic count at your interchange. This fee can be paid by monthly bank draft (ACH) at no additional cost to the business. These fees include installation and maintenance of the logo panels. Logo plate production cost varies based on the number of colors in the logo and the quantity of logo signs ordered.

Kansas Logos, Inc. and KDOT have established a unified billing date for all businesses and will charge a prorated initial annual fee amount based on the date of installation through June 30 of each year. All businesses are on a July 1 billing cycle.

Traffic Count	Mainline Annual Fee Per Direction	Ramp Annual Fee Per Direction	Total Annual Fee Per Direction	Monthly Fee Per Direction	Daily Fee Per Direction
0-19,999	\$900.00	\$100.00	\$1,000.00	\$83.33	\$2.74
20,000-49,999	\$1,400.00	\$100.00	\$1,500.00	\$125.00	\$4.11
50,000-99,999	\$1,800.00	\$100.00	\$1,900.00	\$158.33	\$5.21
100,000 and above	\$2,300.00	\$100.00	\$2,400.00	\$200.00	\$6.58

Other Signage Opportunities

State/Federal Highways (*inside city limits*)

- Along conventional highways (not freeways or expressways) inside the city limits, the city may furnish, install, and maintain their own tourism attraction signage.
 - Any signs installed by the city must be in accordance with the standards and guidelines contained in the MUTCD.
 - If the highway is maintained by KDOT, the city is required to obtain a permit from the local KDOT area office in order to install the signs. Contact your local district office. A list of these offices can be found here: <http://www.ksdot.org/burTrafficEng/KTC/Contacts/KDOTOffices.asp>
 - If the city maintains the highway, then they may install the signs according to the MUTCD and are not required to obtain a permit.
 - Cities can fabricate the signs themselves, purchase them from a private highway sign manufacturer (ask for standard retroreflective highway traffic signs), or purchase them from the Kansas Correctional Industries (KCI). KCI can be reached at (913) 727-3249.

Billboards and Outdoor Advertising

- Certain criteria and regulations must be met for billboards and/or outdoor advertising to be erected. Contact KDOT for more information at (785) 296-3501 or visit <http://www.ksdot.org/burrow/beaut/>

Historic/Commemorative Trails

- Historic or Commemorative Trails must be enacted by the United States Congress or the Kansas Legislature to be eligible for signage along a road or highway. Contact KDOT for more information at (785) 296-3618.

Kansas Byway

- To be designated as a byway, the road or highway must be scenic, historical, recreational, natural, cultural, or archaeological in character. Contact Kansas Tourism for more information at (785) 296-1847.

Kiosk Signage

- Kiosks must either be a part of a national or state historic trail or auto tour route established by the U.S. Congress or Kansas State Legislature or located at specific historic sites approved by the Kansas State Historical Society (KSHS) to qualify for signage. Contact KDOT for more information at (785) 296-3618.

Logo Signage

- Gas, Food, Lodging, Camping, and Attraction signs along interstates, freeways, expressway interchanges and bypass interchanges. Contact Kansas Logos, Inc., for more information at 1-800-449-4420.

Recreational Lakes, Parks, Reservoirs (City & County)

- Contact KDOT for more information at (785) 296-3618.

Recreational Lakes, Parks, Reservoirs (State and Federal)

- Contact Kansas Tourism for more information at (785) 296-8951.

Stadiums, Arenas, Convention Centers, and Auditoriums

- Contact KDOT for more information at (785) 296-3618.

Travel Information Centers

- Community-owned travel information centers wanting signage must be approved and meet criteria to become an information center. Contact the Kansas Tourism for more information at (785) 899-6695.

Frequently Asked Questions

1. Are we eligible for signing?

- All tourism attractions that cater to tourists are eligible to apply for tourism signage. The facility must fill out the application form and meet the criteria set for these signs.

2. When and how can we apply?

- Applications are available from the Kansas Division of Tourism or you may visit the website www.TravelKS.com/industry to download an application.

3. Who pays for the signs?

- If your attraction has been approved as a supplemental guide sign, signing will be installed at the expense of KDOT at points on the State Highway System only if there are sufficient funds available in that district budget.
- If your attraction is approved as a TODS or Attraction Logo Sign, the applicant is responsible for the cost of the fabrication and the annual fee.
- Inside the city limits, the city may furnish, install, and maintain their own tourism signage.

4. Why have I been refused signing, but others have signs at the location I chose?

- Your facility may not have met the criteria for a tourism attraction.
- If the signing at an interchange is already at capacity, then no additional signing will be accepted.

5. What is the estimated time period of erecting a Supplemental Guide sign?

- After it is determined that signs can be installed, signing plans and sign layouts must first be developed. Next, the appropriate signs must be fabricated and delivered to the local KDOT Maintenance Shop. Local KDOT forces will install the signs as soon as their schedule permits.
- KDOT recognizes the importance of tourism signage and will work as hard as they can, but the entire process can take up to one year depending on existing workload and/or sign type.

6. I was denied signage through the Tourism Signage Program. Are there any other types of signs that I would qualify for?

- You may qualify for billboard and outdoor advertising. Contact KDOT at (785) 296-3501.
- You may qualify for signage located within city limits. Contact your local city offices for more information.

7. How will the signs be maintained?

- Maintenance for supplemental guide signs will be performed by KDOT.
- Maintenance of the TODS & Attraction Logo structures and panels will be performed by Kansas Logos or its subcontractors.

8. Can Gas, Food, Lodging and Camping establishments participate in the TODS Program?

- Yes, but Tourist-Oriented Attractions will be given first priority. For criteria for gas, food, lodging, and camping please visit www.kansas.interstatelogos.com.

9. Can seasonal businesses participate in the TODS program?

- Yes, the month(s) of operation shall be included on the TODS business panel. No specific dates will be allowed. Business must be open a minimum of 8 consecutive weeks per year.

Definition of Terms

For the purpose of this policy, the following terms are defined:

Agri-Tourism Attraction The crossroads of tourism and agriculture: when the public visits working farms, ranches or wineries to buy products, enjoy entertainment, participate in activities, shop in a country store, eat a meal or make overnight stays.

ADA Refers to American with Disabilities Act.

Amphitheaters An arena having tiered seating for spectators that is used for a variety of events, public or private.

Amusement Park A commercially operated park enterprise, which supplies refreshments and various forms and devices of entertainment.

Antique Business An establishment where a majority of the items for sale could be considered being in the style or fashion of former times.

Aquarium An establishment where aquatic collections of living organisms are kept and displayed.

Arboretums Facilities used for the cultivation of a variety of woody plants for scientific, educational or ornamental purposes.

Arenas An enclosed area used for the presentation of sports events, among other things.

Art/Craft Centers An exhibit, display, or retail facility for Kansas fine arts or handcrafted products that is open to the public.

Arts/Cultural Attraction Must have significance in portraying Kansas' culture and heritage at the state and national level, i.e. drama, theater, galleries, museums.

Attractions The major portion of whose income or visitors are derived from motorists not residing in the immediate area of the activity and which do not require reservations. An attraction must be of cultural, historic, natural/environmental, recreational, or educational significance to tourists.

Auditoriums A large building or room set aside to accommodate an audience for the presentation of meetings or performances.

Bed and Breakfast Any establishment having no more than fifteen bedrooms; offering to the public, for compensation, transitory lodging or sleeping accommodations; and offering at least one cooked meal per day, which may but need not be breakfast, to each person to whom overnight lodging is provided. The facility shall be a member of the Kansas Bed & Breakfast Association and shall clearly describe itself as a "Bed and Breakfast" in all marketing materials.

Brewery A plant that produces malt liquors and offers tours of the production process.

Cemeteries Signs are allowed for National Cemeteries only.

Civic Centers A center used by members of the locality for social, cultural, or community activities.

Coliseums A large arena with seating for spectators that is used for the presentation of sports events or other entertainment.

Concert Halls A large arena with seating for spectators that is used for the presentation of musical events.

Conventional Highway Any State or US highway other than a freeway or expressway.

Cultural Center A center for performing arts, exhibits, concerts, etc., and which has an occupancy capacity of at least 250 people.

Distillery An establishment that distills alcoholic beverages and offers tours of the production facilities.

DMO Refers to Destination Management Organization. The principal organization of the given city, community or region that is organized to represent a specific destination for the purpose of travel and tourism development and is defined and authorized by its incorporated local government entity as the representative organization exercising this function.

Equestrian Center A facility, marketing itself as an "equestrian center", dedicated to the public education and recreational enjoyment of horses through a variety of features such as riding lessons, training facilities and clinics.

Expressway A divided highway for through traffic with partial access control, which includes both interchanges and intersections.

Facility Tour Location A facility such as a factory, institution or a plant which conducts tours at least four times daily on a regularly scheduled year-round basis.

Fairgrounds A commercially-operated tract of land where fairs or exhibitions are held, and which has permanent buildings included but not limited to livestock exhibition pens, exhibition halls, bandstands, etc.

Farmers' Markets Shall be operated under contractual arrangements with the Department of Agriculture and Consumer Services by local government, local cooperatives, or private individuals.

Freeway/Interstate A divided highway to which the only means of ingress and egress is by interchange ramps.

Galleries A permanent building or hall in which artistic works, such as paintings, poetry, or statues, are displayed for show.

Gambling Facilities An establishment on which lawful gambling is authorized, licensed, and regulated by the State of Kansas.

General Motorist Service Signs A blue and white sign providing motorists with directional information and/or identification of motorist services located along or near state highways.

Golf Course An establishment offering rounds of golf on an area of land laid out for exclusively for golf, with a series of nine (9) or eighteen (18) holes, each including tee, fairway, and putting greens.

Historical Building & Sites Shall be listed on the National Register of Historic Places and/or played a significant historic role in Kansas, the nation or world and be open to the public. *NOTE: If supplemental guide signs are installed for a historic district, separate signs for individual historic sites within the historic district shall not be allowed.*

Historic Districts Shall be listed on the National Register of Historic Places and/or played a significant historic role in Kansas, the nation or world; at least one facility, establishment or business located within the district shall be open to the public for business at least 6 hours a day, 5 days a week in order to provide personal assistance and visitor information to the traveler; the historic significance of the district must be interpreted for the traveler - this may include a self-guided brochure, interpretive signage/kiosks, audio recordings or guided tours, etc.; the area must have a local DMO. *NOTE: If supplemental guide signs are installed for a specific historic site or sites within a historic district, separate signs for the historic district shall not be allowed.*

Interchange A junction of two or more highways by a system of grade separated levels that permit traffic to pass from one to another without the crossing of traffic streams.

Intersection Two or more highways that intersect at the same grade level requiring the establishment of right-of-way via stop signs, yield signs, or traffic signals.

KCI Refers to Kansas Correctional Industries.

KDOT Refers to the Kansas Department of Transportation.

KDT Refers to the Kansas Division of Tourism within the Department of Commerce, Tourism Division.

KLI Refers to the Kansas Logos, Inc.

Legend The exact text on a sign.

Supplemental Guide Sign Official brown guide signs approaching interchanges on freeways and expressways, and intersections on expressways and two-lane conventional highways.

MUTCD Refers to the Manual on Uniform Traffic Control Devices.

Municipal Parks Parks that are open to the public and maintained by the local government.

Museum An organization and permanent nonprofit institution, essentially educational or aesthetic in purpose, with professional staff, which owns and utilizes tangible objects, cares for them and exhibits them to the public on some regular schedule. Museums shall be members of or accredited by the Kansas State Historical Society and/or Kansas Museums Association.

National Parks Parks that are maintained by the United States Park Service.

Natural Attraction A naturally occurring anomaly, such as a cavern or rock structure, among others, that is maintained and marketed as a natural attraction.

Nursery/Greenhouse An establishment that grows, or offers for sale, plants, trees, or associated items.

Outdoor Attraction An area of outstanding interest to the general public, i.e., state or national parks, lakes, rivers.

Pavilions An ornamental roofed facility used for sporting events or other amusements.

Privately-Owned Research/Experimental Facilities Shall have a staffed visitor center open to the public at least six (6) hours a day, five (5) days a week.

Race Tracks An indoor or outdoor arena with seating for spectators that is used primarily for the presentation of racing events.

Regional Parks A park that is open to the public and maintained by a local or state government or private entity, that serves a general geographic region.

Science/Nature Attraction An area of outstanding interest to the general public, i.e., children's museums, zoos, botanical gardens, grasslands, wildlife refuges.

Scenic Site A natural or man-made picturesque view of outstanding interest to the general public.

SHS Refers to the State Highway System.

Sports/Entertainment Attraction A recreational and entertainment complex that supplies refreshments and multiple activities of entertainment and recreation, i.e., sports, speedways, amusement parks, casinos, rodeos, dog tracks.

Stadiums An enclosed area used for the presentation of sporting events, among other things.

State Parks A park that is open to the public and maintained primarily by a state government agency.

Spur Routes A short highway route that connects a city to a main highway route but does not continue into or through the city.

Theme Parks A commercially operated enterprise offering rides, games, or other forms of entertainment.

Travel Information Centers Shall be approved by Kansas Tourism and written approval shall be provided to KDOT prior to the installation of signs.

Tourism Attraction Signage Official signing that is located within the right-of-way of a state or federal highway that gives specific directional information regarding activities or sites of significant interest to the traveling public.

TODS Refers to Tourist Oriented Directional Signs. Official signing which is located within the right-of-way of a state or federal highway, and which gives specific directional information regarding activities or sites of significant interest to the traveling public.

Trailblazing Informational signs designed to provide the traveling public with route guidance in following a trail to a particular tourism attraction after leaving a major highway or road.

Water Oriented Business Shall include canoe liveries, raft liveries, marinas, water parks, wave pools and other similar businesses providing access to or facilities for waterborne recreational activities.

Winery A licensed business making wine, offers tours to the public on a regular basis and provides an educational format informing visitors about wine and wine processing.

Zoological/Botanical Facility A collection of unique living animals or plants kept for exhibit to the public. Zoos shall be members of or accredited by the American Zoo and Aquarium Association or other similar organizations.

Application Process

1. For Supplemental Guide Signs, Tourist Oriented Attraction TODS, and Attraction Logo Signs: Contact Kansas Tourism, to obtain an application. You may also visit the website www.TravelKS.com/industry to download an application.
2. Return the completed application to the Kansas Tourism (KT). KT will review the application and a site visit will be completed. If the application is approved for eligibility, KT will forward the eligibility approval to KDOT or Kansas Logos, Inc (KLI) to review the proposed signing locations and feasibility will be determined. Our intent is to complete the eligibility process within 90 days of receiving the completed application.
3. After it is determined that signs can be installed, the applicant will be contacted with an approval letter. KDOT/KLI will then contact the applicant so signing plans and sign layouts can be developed and fabricated. Local KDOT forces or KLI or its subcontractors will install the signs as soon as their schedule permits.
4. KT, KDOT, and KLI recognize the importance of tourism signage and will work as hard as they can, but the entire process can take up to one year depending on existing workload and/or sign type.
5. If the application is denied, the tourism attraction will be contacted with an explanation of why the application was denied. Kansas Tourism may reject any application that is incomplete or does not comply with the tourism attraction signage criteria and/or policies. It is possible for an attraction to receive approval for eligibility from the Kansas Tourism, but not to receive signing based on existing signing conditions.
6. For Gas, Food, Lodging and Camping TODS: Contact Kansas Logos, Inc. to obtain an application. You may also visit the website www.kansas.interstatelogos.com.

Contacts

Kansas Tourism

Lisa Hecker
Byways & Signage Manager
1000 SW Jackson St, Ste 100
Topeka, KS 66612
Phone: (785) 296-4654
lisa.hecker@ks.gov
www.TravelKS.com

Kansas Department of Transportation

Bureau of Transportation Safety & Technology
Brian Gower – Chief of Transportation Safety and Technology
700 S.W. Harrison, 6th Floor
Topeka, KS 66603-3754
Phone: (785) 296-7431
Fax: (785) 296-3619
brian.gower@ks.gov
www.ksdot.org

Kansas Logos, Inc.

Tana Mock – General Manager
2231 Wanamaker Rd., Suite 200
Topeka, KS 66614
Phone: (785)272-1771
Toll: (800)449-4420
Fax: (785)272-0188
tmock@interstatelogos.com
www.kansas.interstatelogos.com

Kansas Tourism
1000 SW Jackson St, Ste 100
TOPEKA, KS 66612
Tel: (785) 296-2009
Fax: (785) 296-6988

TOURISM ATTRACTION SIGNAGE APPLICATION

ATTRACTION:	
CONTACT NAME:	
TITLE:	
MAILING ADDRESS:	
CITY, STATE, ZIP:	
LOCATION ADDRESS:	
TELEPHONE:	
FAX:	
EMAIL:	
WEBSITE:	

ATTRACTION INFORMATION

1. Select one or more categories appropriate for the attraction:

Agri-Tourism	<input type="checkbox"/>
Arts/Cultural	<input type="checkbox"/>
Historical	<input type="checkbox"/>
Outdoor	<input type="checkbox"/>
Science/Nature	<input type="checkbox"/>
Sports/Entertainment	<input type="checkbox"/>
Retail Tourism	<input type="checkbox"/>
Other _____	<input type="checkbox"/>

2. What is your primary source of business? If you have more than one, please list the significance in order by percentages.

3. Please describe what a visitor will experience at your attraction (attach page if needed):

4. When was the opening date for your attraction?

5. What months of the year is the attraction open to the public?

6. What are the hours of operation?

VISITATION & MARKETING

1. Daily average attendance: _____

Number of visitors per year: _____

Of that figure, please list the total number of:

International Visitors:	_____
Out-of-State Visitors:	_____
Out-of-County Visitors:	_____
Community/County Visitors:	_____

2. How do you obtain your visitation numbers?

3. List all other major attractions within a 30-mile radius. Please include the city, the proximity, and the location from your attraction. (Add page if needed.)

4. List the tourism organizations, alliances, groups, etc. that your attraction is involved with or a member of:

5. What are your regional/state cooperating efforts?

6. Is the attraction listed in the Kansas Travel Guide?

☐ YES ☐ NO

If no, please describe why:

7. Is the attraction listed on the TravelKS.com website?

☐ YES ☐ NO

If no, please describe why:

8. Is your promotional literature distributed at the Kansas Travel Information Centers?

☐ YES ☐ NO

If no, please describe why:

9. Attach a copy of your overall marketing plan that has been developed/outlined for promoting the attraction. Enclose brochures, pictures, tour information, and other promotional information.

ACCESSIBILITY & CAPACITY

1. Number of parking spaces for visitors:

2. Please check where parking is available:

On-site or adjacent to attraction	<input type="checkbox"/>
Within one walking block	<input type="checkbox"/>
Within two walking blocks	<input type="checkbox"/>
More than two walking blocks	<input type="checkbox"/>

3. Is motorcoach parking available?

☐ YES ☐ NO

If no, please describe why:

4. Are public modern restrooms available?

☐ YES ☐ NO

If no, please describe why:

5. Are public telephones available?

☐ YES ☐ NO

If no, please describe why:

6. Is there a gift shop available?

☐ YES ☐ NO

7. Is there food/beverage service available?

☐ YES ☐ NO

8. Please list the attraction's location, in miles, from state highways and interstates/freeways (Please attach a map with the facility location):

MISCELLANEOUS INFORMATION

1. Please check if the attraction is:

Not-For-Profit	<input type="checkbox"/>
State-Owned	<input type="checkbox"/>
For-Profit	<input type="checkbox"/>

2. Is there an admission fee and is it clearly on display upon entry?

☐ YES ☐ NO

If yes, what is the cost?

3. What hours are your attraction staffed?

If it is not staffed, please explain why:

4. Do you have interpretive information available at your attraction?

☐ YES ☐ NO

If yes, please describe:

5. Does the attraction meet ADA requirements?

☐ YES ☐ NO

If no, please describe why:

6. Have you attached a letter of support from your local DMO?

☐ YES ☐ NO

If no, please describe why:

PLACEMENT

1. Are there currently any tourism attraction signs in place for this facility?

☐ YES ☐ NO

If yes, please list their locations & include photos of the signs:

2. Are trailblazing signs currently in place that direct the tourist to your attraction once off the main highway?

☐ YES ☐ NO

If yes, please list their locations & include photos of the signs:

3. Is the name of your business prominently displayed on the premises in such a manner that it is readily visible to motorists from the public highway on which the facility is located?

☐ YES ☐ NO

If no, please describe why:

4. Please list and attach a map or sketch with your desired sign locations:

5. How do you prefer your attraction to be listed on the sign?

To the best of my knowledge and belief, the information in this application is true and correct, and the governing body of the Applicant Organization has duly authorized this document.

Signature _____

Title: _____

Date: _____

Return Completed Application To:

Lisa Hecker
Kansas Tourism
1000 SW Jackson St, Ste 100
Topeka, KS 66612
lisa.hecker@ks.gov

ORDINANCE NO. _____

=====

AN ORDINANCE AMENDING TITLE 7, CHAPTER 3, SECTION 3(C) AND SECTION 4 OF THE MUNICIPAL CODE, REGULATING THE EXPLODING AND FIRING OF FIREWORKS; REPEALING EXISTING TITLE, CHAPTER AND SECTIONS.

=====

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF GARNETT, KANSAS:

SECTION 1: Title 7, Chapter 3, Section 3(C) of the Municipal Code of Garnett, Kansas, is hereby amended to read as follows:

7-3-3: **EXPLODING; FIRING ON DESIGNATED DAYS AND AT DESIGNATED TIMES:** It shall be unlawful and any person or persons to use, fire off, explode or cause to be exploded within the city:

* * *

(C) Any fireworks or explosives described in section 7-3-1 of this chapter within the north city park on the date, including the "rain date" if applicable, scheduled for the community fireworks display in commemoration of the Independence Day holiday, said display commonly called "Liberty Fest", between the hours of six o'clock (6:00) P.M. and eleven o'clock (11:00) P.M. of said day.

SECTION 2: Title 7, Chapter 3, Section 4 of the Municipal Code of Garnett, Kansas, is hereby amended to read as follows:

7-3-4: **EXPLODING, FIRING; LOCATION RESTRICTIONS:** It shall be unlawful for any person or persons to use, fire off, explode, or cause to be exploded in the city, any of the fireworks or explosives described in section 7-3-1 of this chapter at any time: (1) at, toward, or under any car or motor vehicle, whether the same is moving or standing still; (2) from any car or motor vehicle, whether moving or standing still; or (3) within one hundred (100) feet of any gasoline pump, gasoline filling station, gasoline bulk station, or any building or area in which gasoline or volatile liquids are sold in quantities in excess of one gallon, except in stores where cleaners, paints, oils, and other volatile materials are handled in sealed containers only; provided, however, the shaking, mixing or adding colorant to paint which is essentially free from volatile substances, often commonly called water-based paint or finish, is likewise excepted.

SECTION 3: Title 7, Chapter 3, Section 3A and Section 4, as the same presently exist, are hereby repealed.

SECTION 4: This ordinance shall take effect and be in force from and after its passage and publication in an official newspaper of the City of Garnett, Kansas.

PASSED this _____ day of June, 2022.

Mayor

ATTEST:

City Clerk

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	1	69

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2.

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3.

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SUBGRADING DETAIL SHEET
- 4-7.

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- 8-9.

INTERSECTION DETAILS
- 10-14.

PAVEMENT DETAILS
- 15-16.

INLET AND MANHOLE DETAILS
17.

MISCELLANEOUS STORM SEWER DETAILS
- 18-20.

STORM SEWER PROFILES
21.

SCHEDULE OF INLETS AND MANHOLES
- 22-24.

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25.

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26.

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- 37-41.

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- 42-52.

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- 53-63.

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- 64-69.

CROSS SECTIONS

KDOT PROJECT NO. 59-2 KA-5422-01
AID PROJECT NO. ACNHP-A542(201)

GRADING
SURFACING (CONCRETE & ASPHALT)
SEEDING
SIGNING AND PAVEMENT MARKING

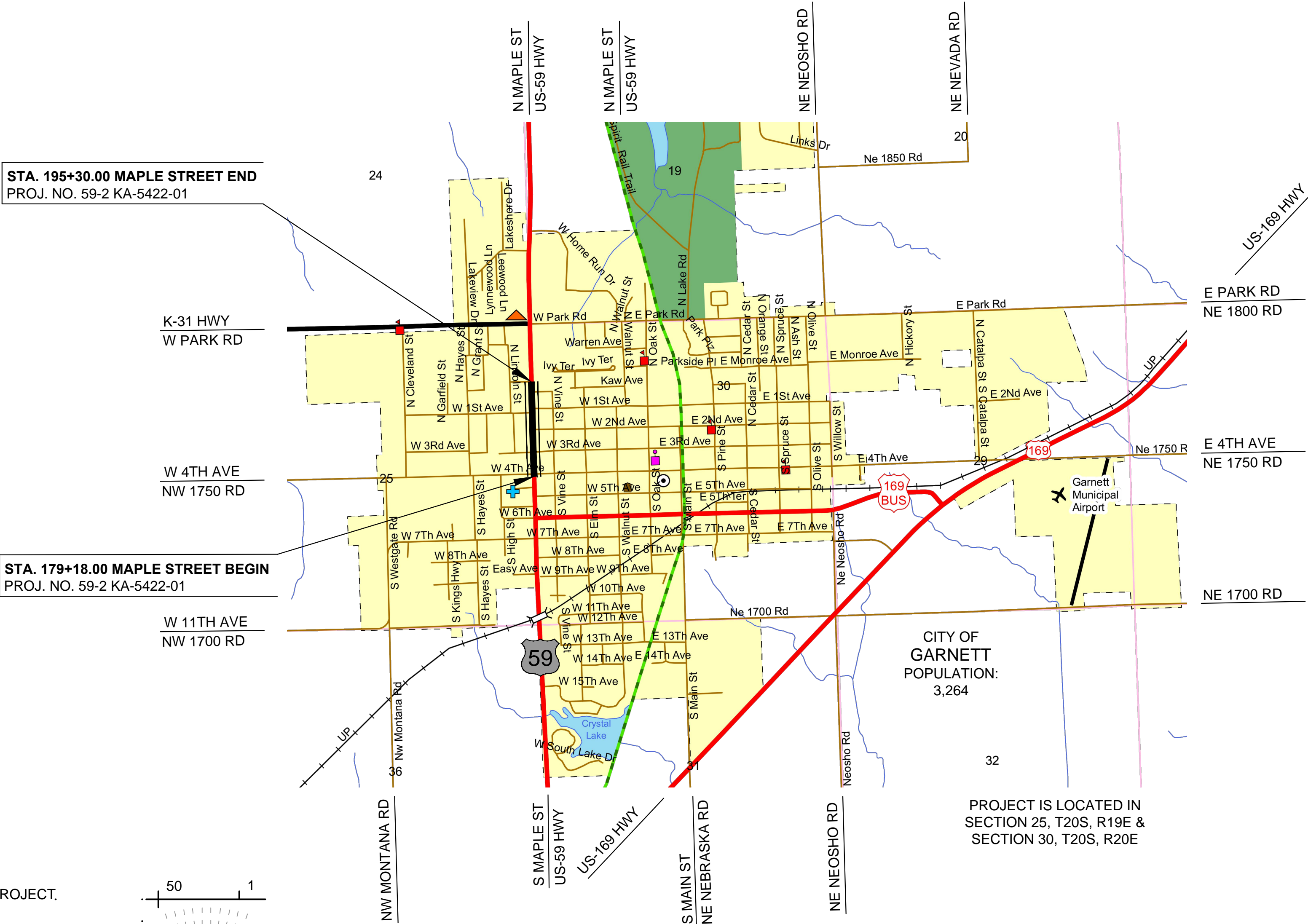
STATE OF KANSAS
DEPARTMENT OF TRANSPORTATION



PLAN OF PROPOSED
MAPLE STREET (US-59 HWY) ROAD
IMPROVEMENTS
FEDERAL AID PROJECT
ANDERSON COUNTY
CITY OF GARNETT, KANSAS

DATE	BY
2019	BG CONSULTANTS, INC.
2022	BG CONSULTANTS, INC.
2022	KDOT - LOCAL PROJECTS

SURVEYED	INKED	DESIGNED	SQUAD

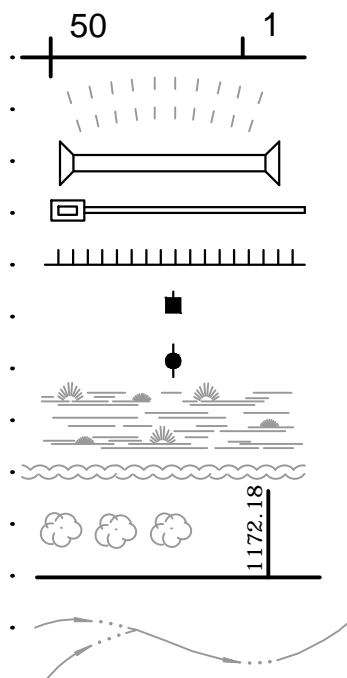


DESIGN DESIGNATION

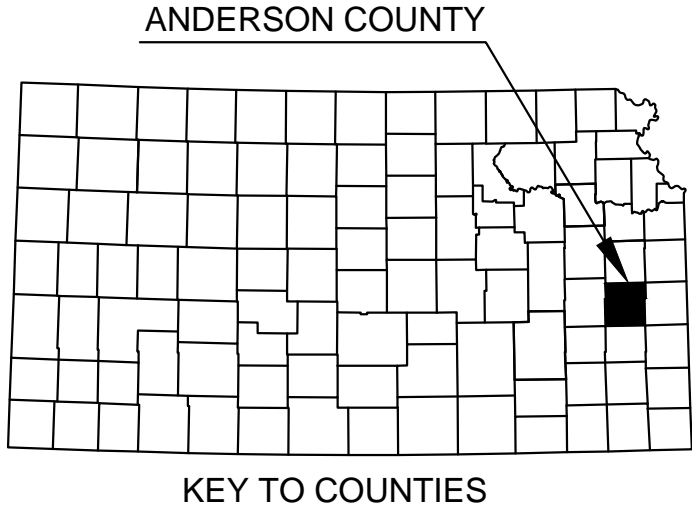
AADT (2022)	7,600
AADT (2042)	8,900
DHV	10%
D	60/40
T	8.8%
V	35 mph
C of A	None
Clear Zone	16 ft.

CONVENTIONAL SIGNS

COUNTY LINE	CENTER LINE OF PROJECT.
CITY LIMITS	TERRACE
STATE OR NATIONAL LINE	CULVERTS
TOWNSHIP, SECTION or GRANT LINE	DROP INLET & STORM SEWER
PROPERTY LINE	ACCESS CONTROL
HIGHWAY FENCE	POWER POLE
EXISTING FENCE	TELEPHONE POLE
GUARDRAIL	MARSH
CONSTRUCTION LIMITS	HEDGE
RIGHT OF WAY LINE	TREES
TRAVELED WAY.	PROFILE ELEVATION
RAILROADS	STREAM or CREEK



GROSS LENGTH OF PROJECT	1,612.00 FT. (INCLUDES EQUATIONS)
EXCEPTIONS	0.00 FT.
NET LENGTH OF PROJECT	1,612.00 FT. 0.305 MILES
NET LENGTH OF BRIDGE	0.00 FT. 0.000 MILES
NET LENGTH OF ROAD	1,612.00 FT. 0.305 MILES



PLANS PREPARED BY:
(BG #19-1514L)



RECOM. FOR APPROVAL-DATE

LOCAL PUBLIC OFFICIAL

NOTE: TRAFFIC SHALL BE CARRIED THRU
STAGED CONSTRUCTION. SEE SH. NO. 53
FOR CONSTRUCTION SEQUENCE DETAILS.

Approved _____
Date

State Transportation Engineer

By:

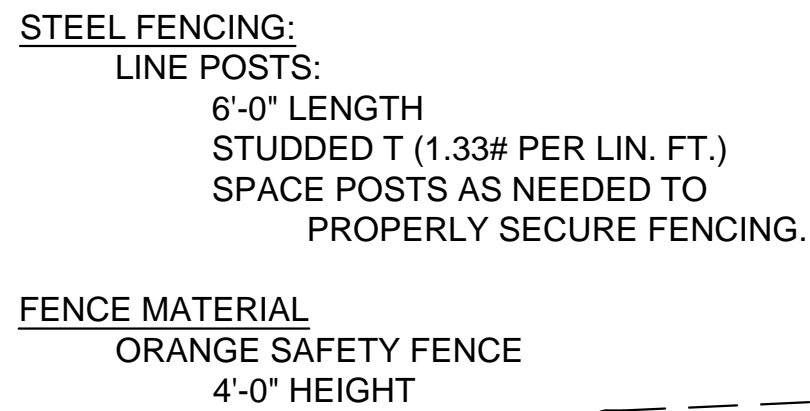
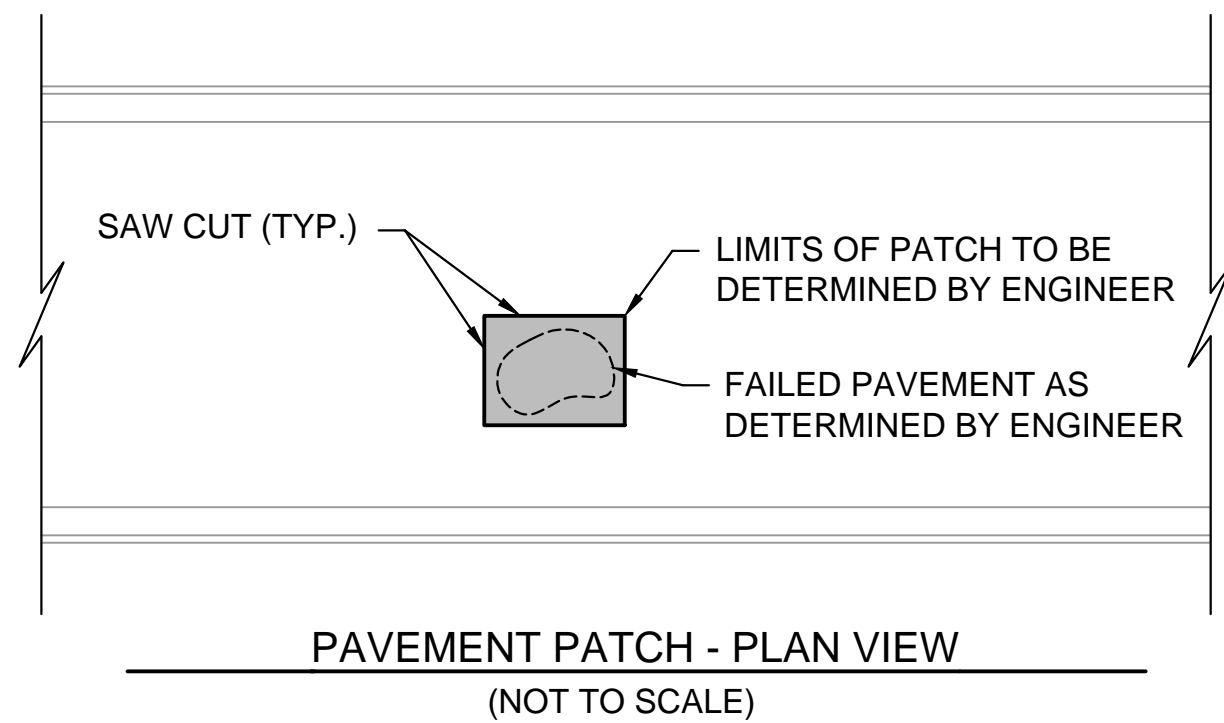
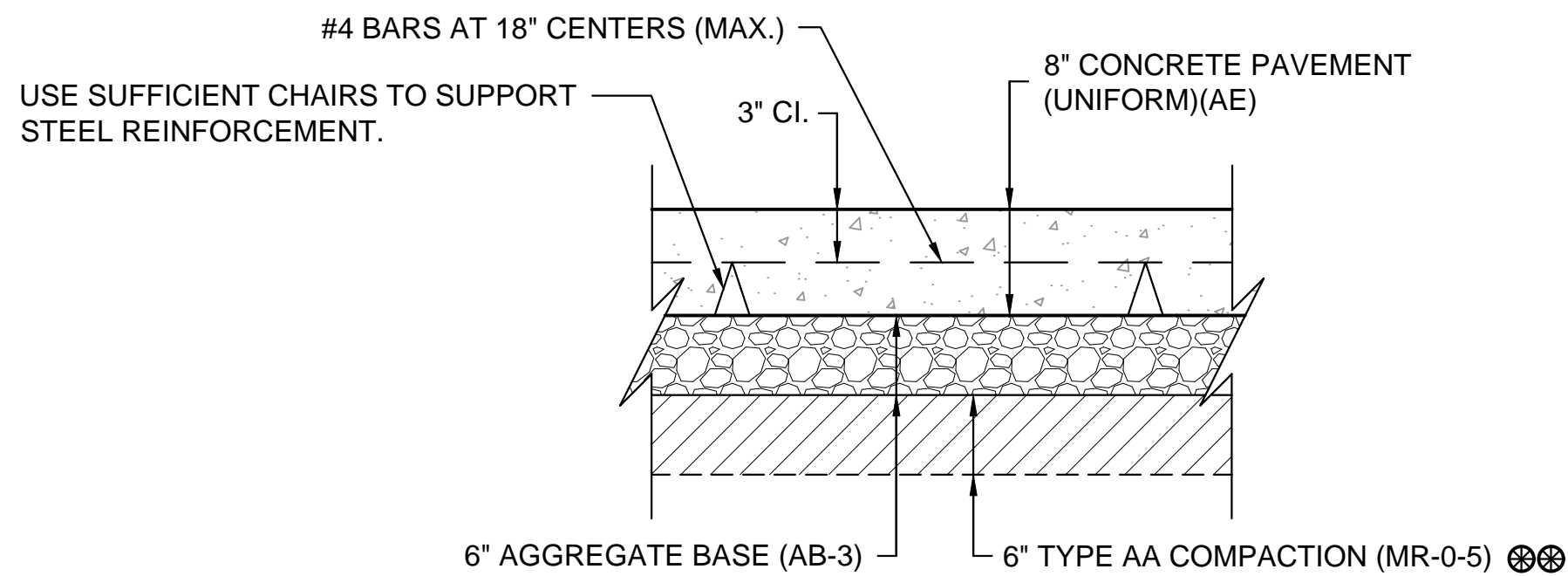
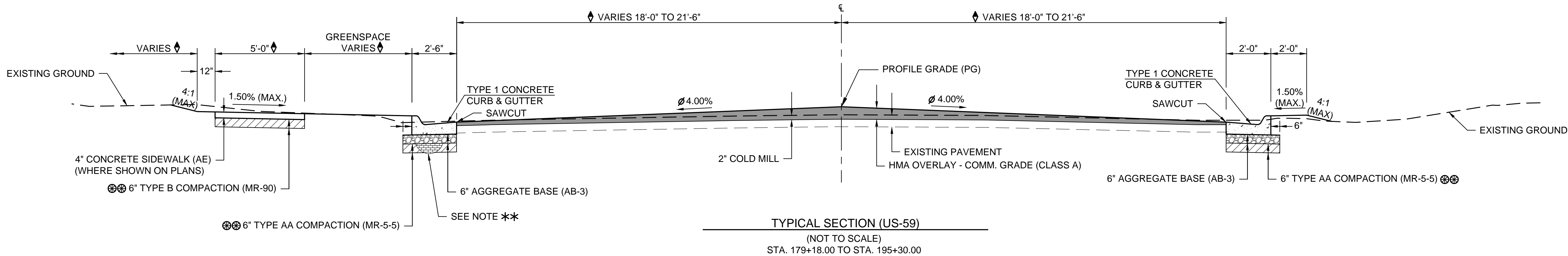
Chief, Bureau of Road Design

KANSAS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION NOTES

- OVERBREAKAGE IN LIMESTONE OR SANDSTONE ROCK SHALL BE BROUGHT TO WITHIN 8" OF THE SUBGRADE LINE WITH CRUSHED STONE, SHOT ROCK, AND/OR ROCK RUBBLE, PROPERLY COMPACTED, AND THEN BROUGHT TO THE SUBGRADE LINE WITH CRUSHED STONE MEETING THE REQUIREMENTS FOR "CRUSHED STONE FOR BACKFILL" IN ACCORDANCE WITH THE KDOT STANDARD SPECIFICATIONS. LAYERS OF EARTH OR SHALE WILL NOT BE PERMITTED FOR BACKFILL UP TO THE BOTTOM OF THE CRUSHED STONE. OVERBREAKAGE IN SHALE OR IN ROCK WHERE SHALE IS EXPOSED SHALL BE BACKFILLED WITH LOW PERMEABILITY SOILS AS LISTED ON THIS SHEET. ALL MATERIALS, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY FOR THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO OTHER ITEMS OF THE CONTRACT.
- FOR PAVEMENT WIDTH AND TAPER LOCATIONS, SEE PLAN SHEETS.
- FOR WIDTHS AND SLOPES, SEE CROSS SECTIONS.
- IN CUT AREAS, COMPACTION OF THIS LAYER SHALL BE CONSIDERED SIMILAR TO FOUNDATION TREATMENT AND SHALL BE SUBSIDIARY.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	2	69



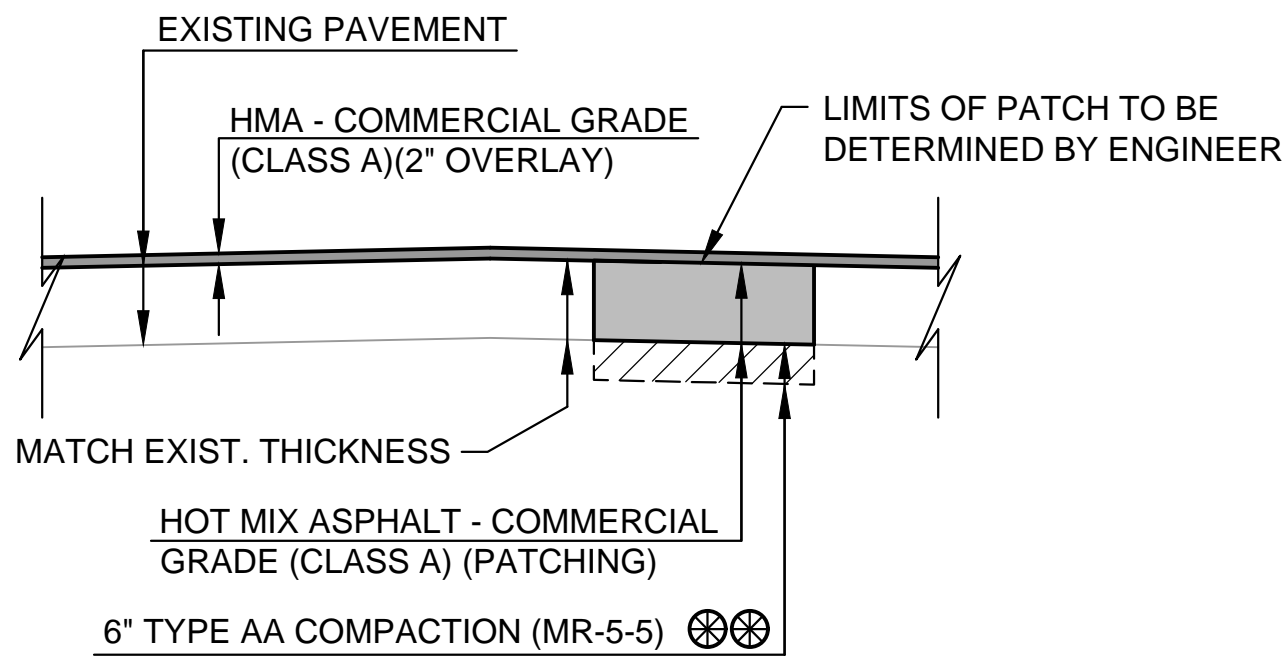
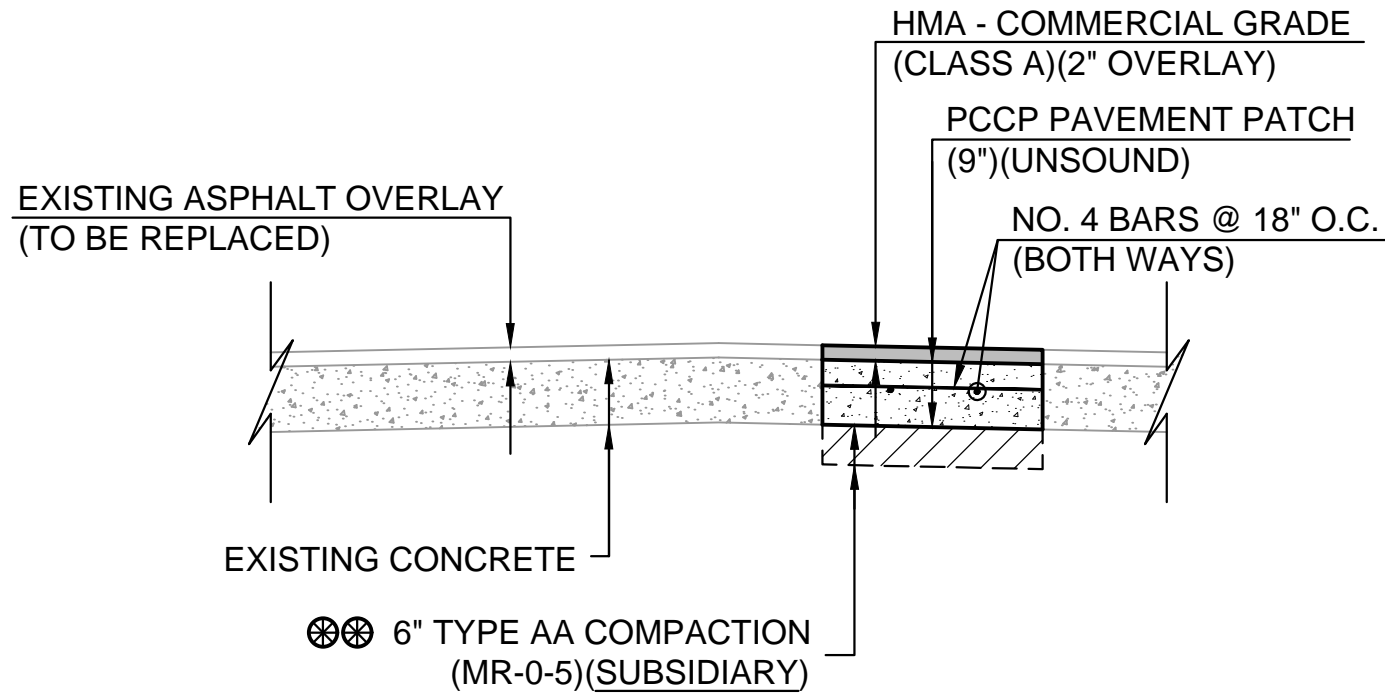
WHEN THE HORIZONTAL OFFSET DIMENSION "H.O." BETWEEN THE NEW SIDEWALK AND THE EXISTING RIGHT-OF-WAY IS LESS THAN 5' AND THERE IS NO TEMPORARY CONSTRUCTION EASEMENT, CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING.

CONSTRUCTION FENCING IS INTENDED TO PREVENT AND/OR DISCOURAGE THE CONTRACTOR'S CONSTRUCTION OPERATIONS FROM ENCROACHING ONTO PRIVATE PROPERTY.

CONSTRUCTION FENCE DETAIL (NOT TO SCALE)

SIDE STREET LOCATIONS FOR CONC. INTERSECTION PAVEMENT

- 3RD AVENUE
STA. 182+54.00, LT.
STA. 182+69.00, RT.
- 2ND AVENUE
STA. 186+50.00, RT.
- 1ST AVENUE
STA. 190+20.00, LT.
STA. 190+24.41, RT.

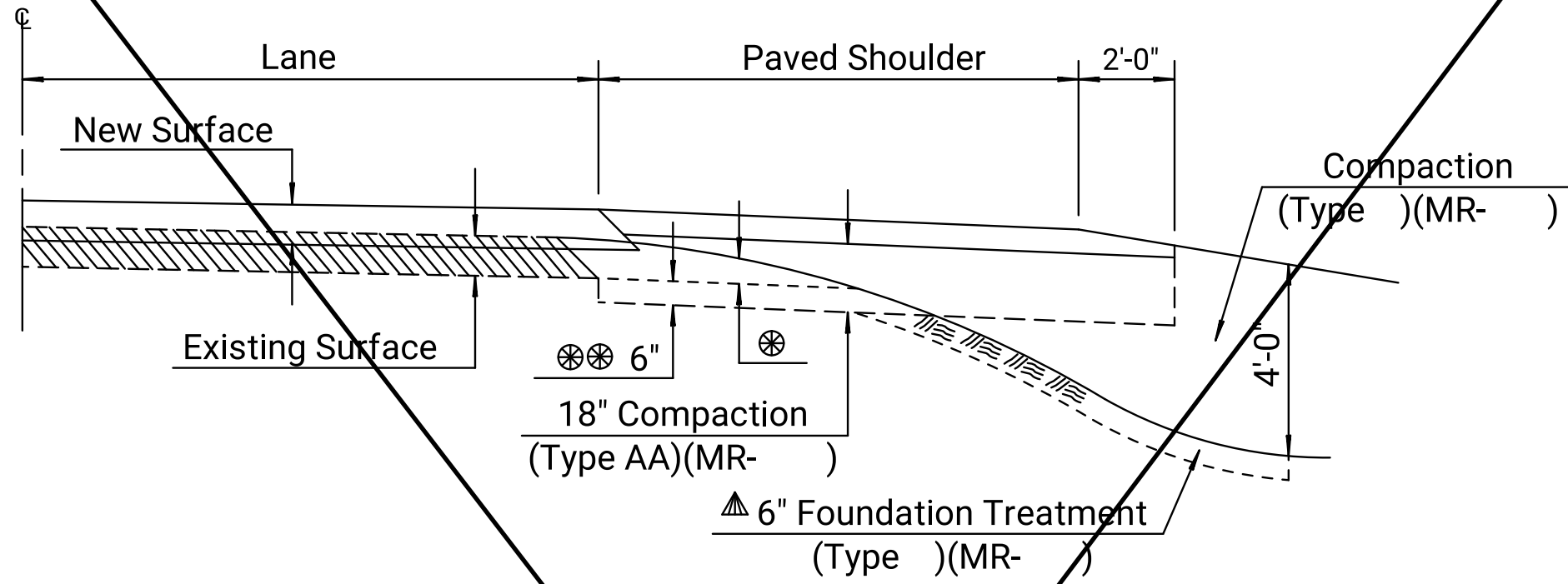


KANSAS DEPARTMENT OF TRANSPORTATION

MAPLE STREET (US-59 HWY)
TYPICAL SECTIONS

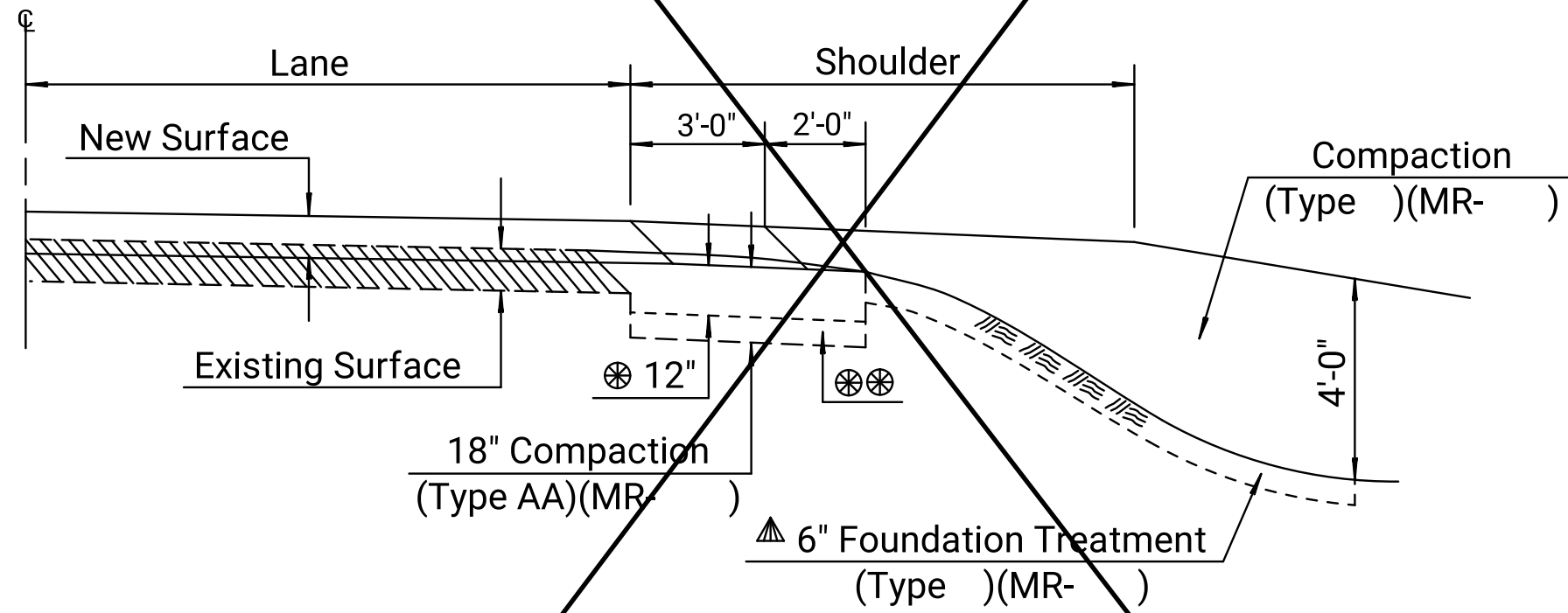
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	3	69

REHABILITATION



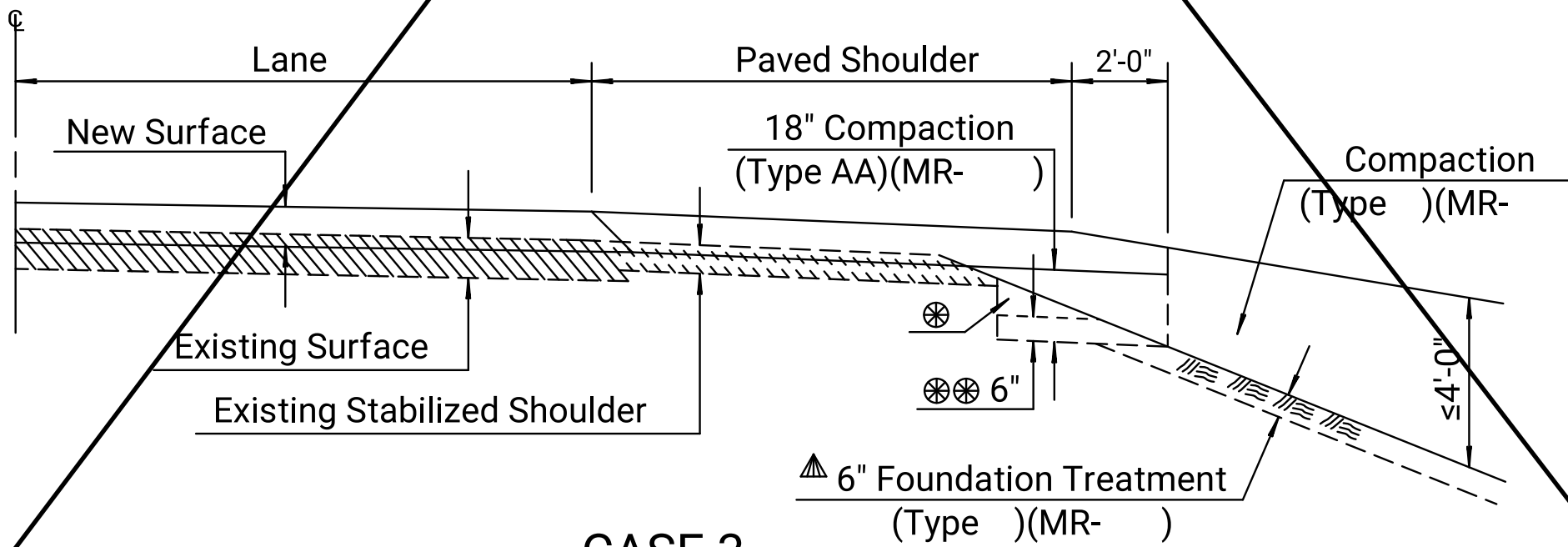
CASE 1

Overlay with Paved Shoulder



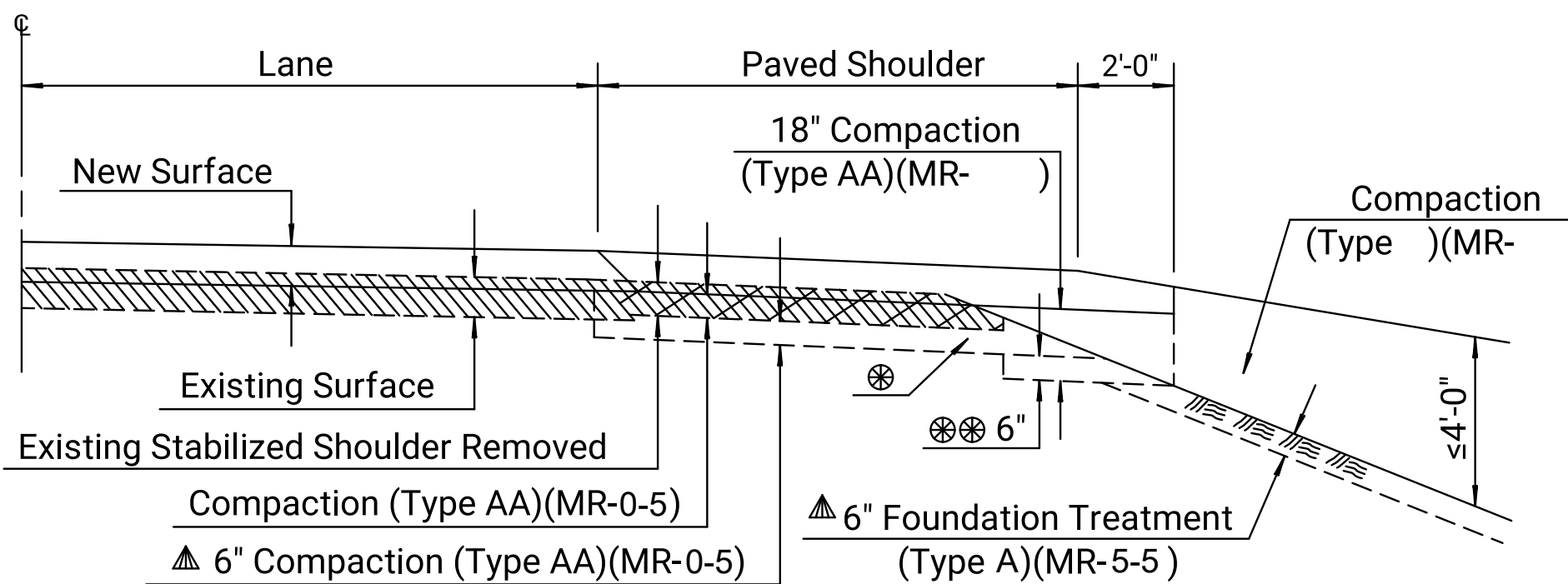
CASE 2

Overlay with Composite Shoulder



CASE 3

Overlay with Existing Paved Shoulder



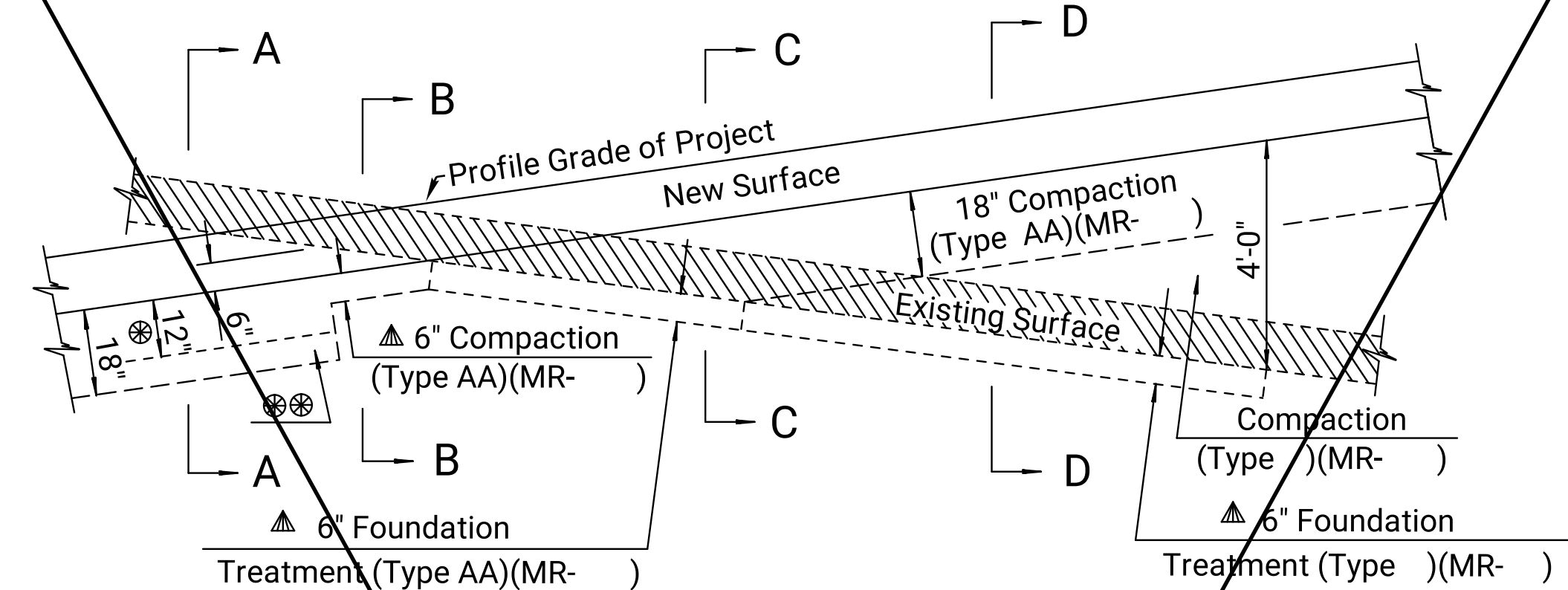
CASE 4

Overlay with Shoulder Replacement

- ⊗ Excavation thru Cuts not Subgraded
- ⊗⊗ The lower 6" of Compaction is subsidiary.
- ▲ Compaction of this material shall be subsidiary.

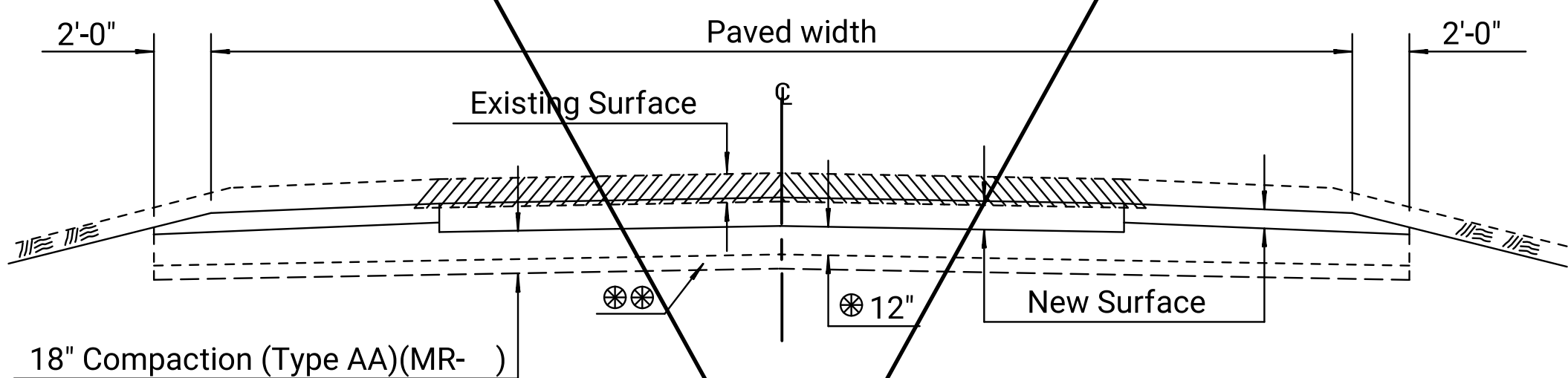
Note: These are 4 general cases. Specific compaction requirements are determined on a project-by-project basis.

RECONSTRUCTION

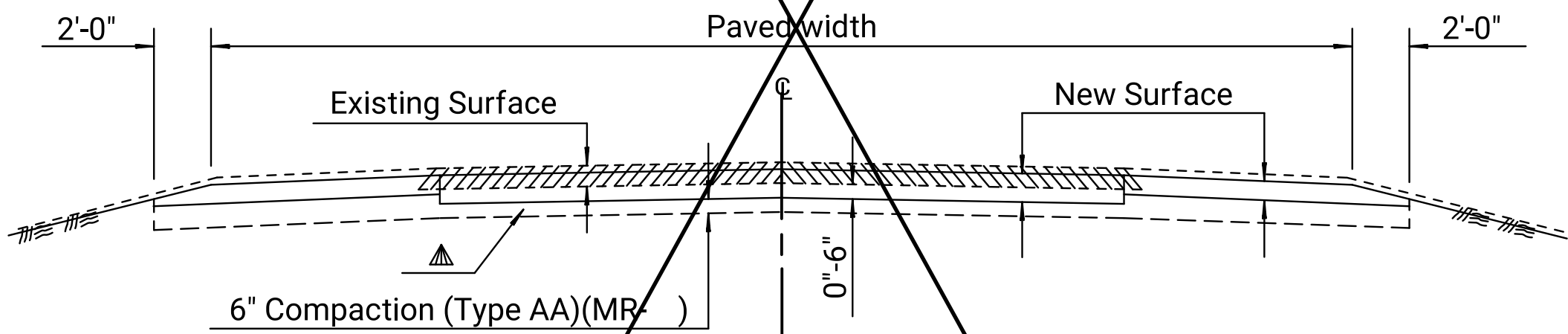


PROFILE

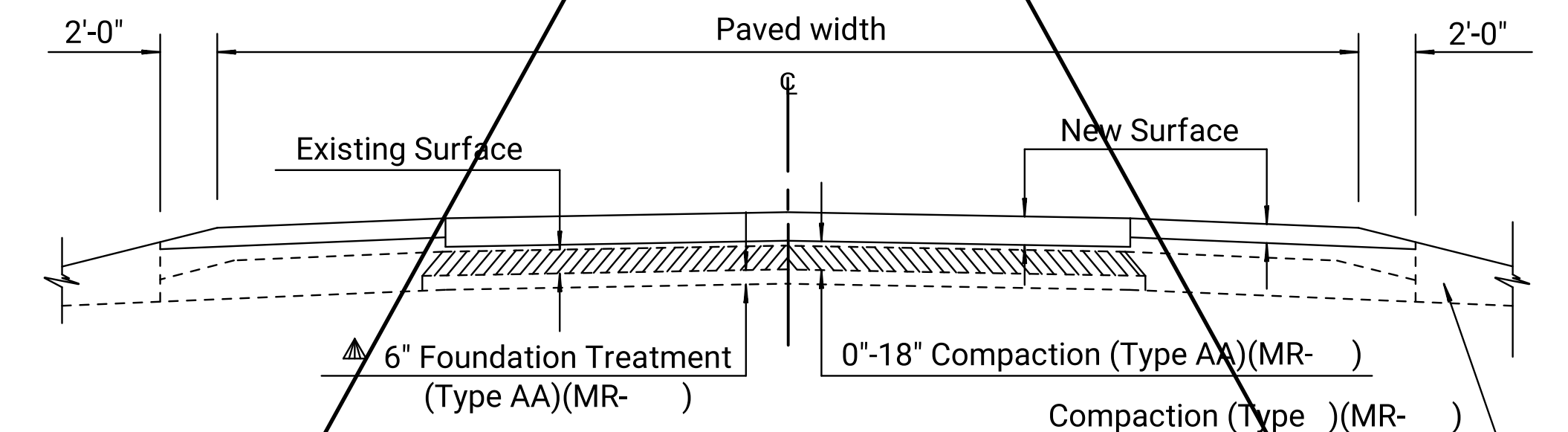
- ⊗ Excavation thru Cuts not Subgraded
- ⊗⊗ The lower 6" of Compaction is subsidiary.
- ▲ Compaction of this material shall be subsidiary.



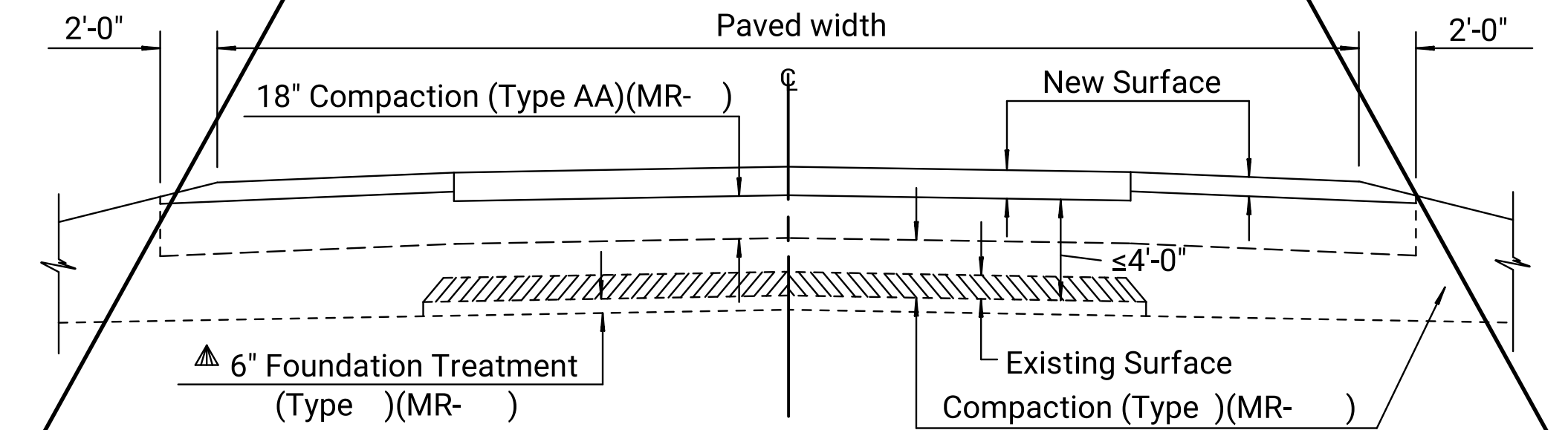
SECTION A-A



SECTION B-B

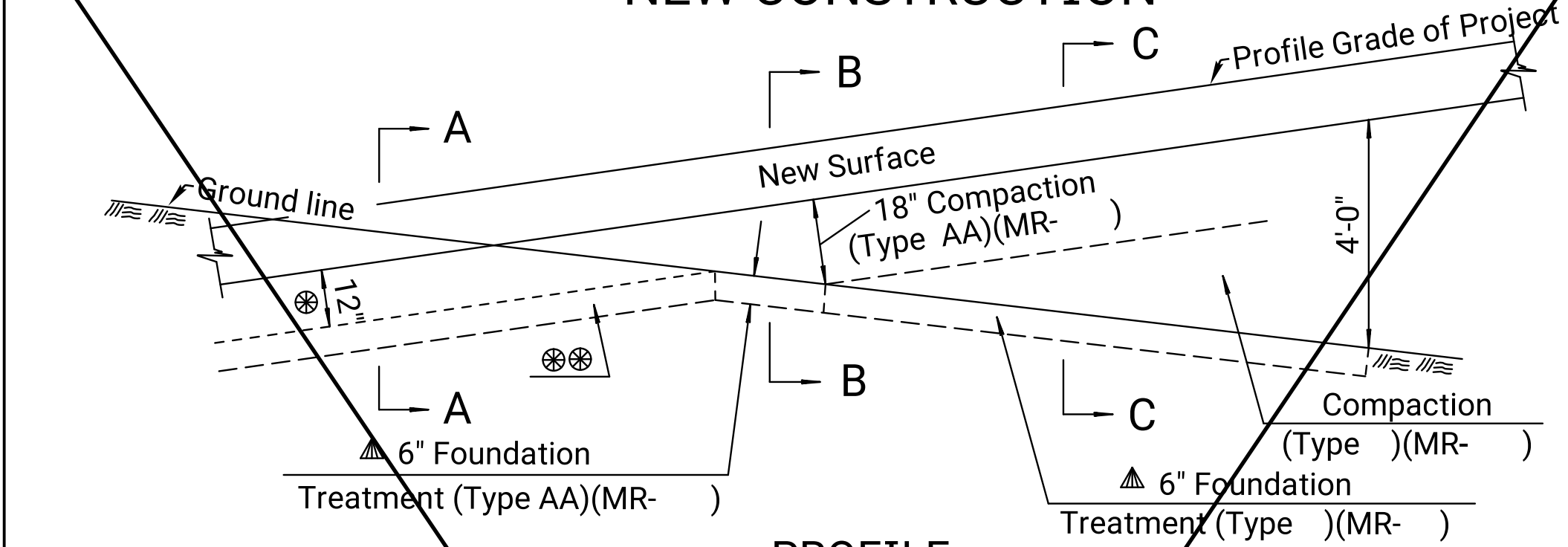


SECTION C-C



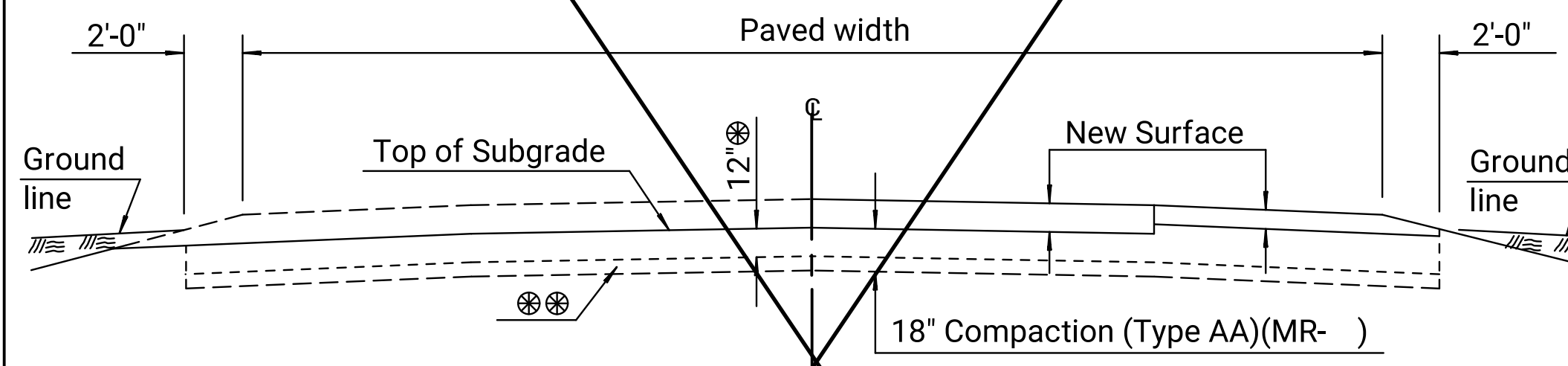
SECTION D-D

NEW CONSTRUCTION

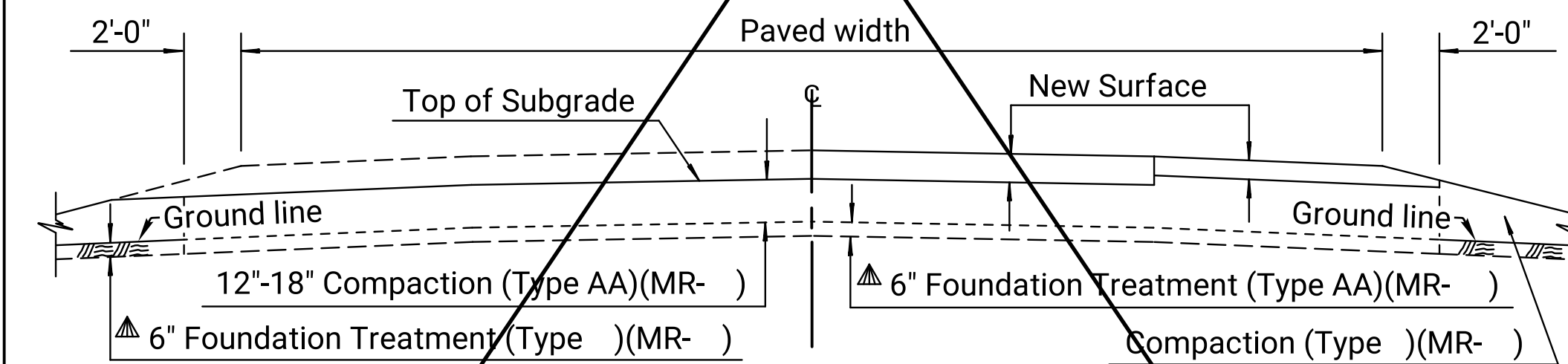


PROFILE

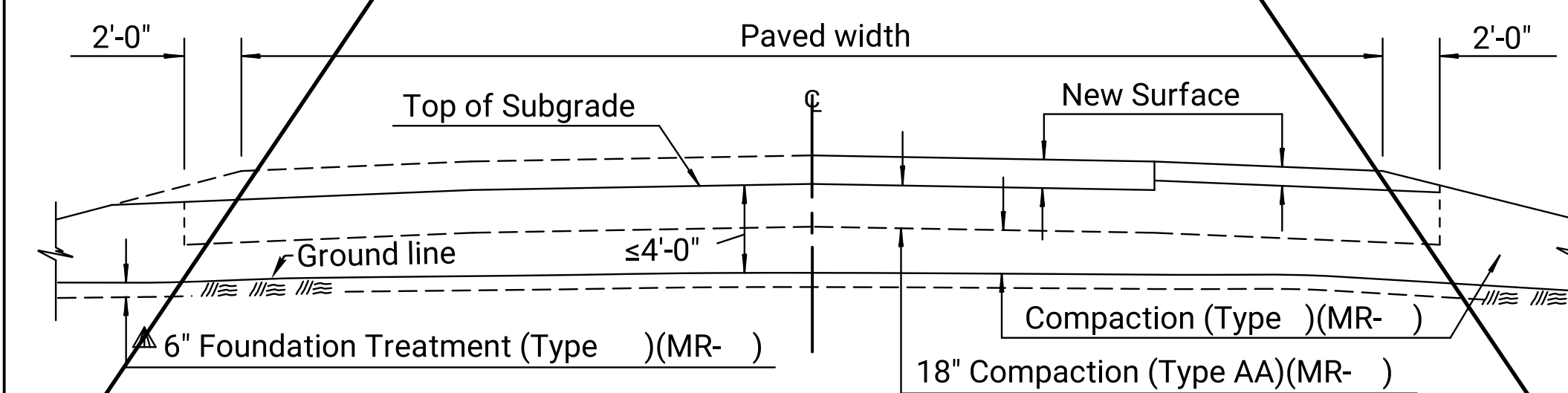
- ⊗ Excavation thru Cuts not Subgraded
- ⊗⊗ The lower 6" of Compaction is subsidiary.
- ▲ Compaction of this material shall be subsidiary.



SECTION A-A



SECTION B-B



SECTION C-C

General Note

For materials designated to be subgraded, compaction of soils, including shale, designated for backfill refer to Standard Drawing RD605A for details.

Unless otherwise noted on the Plans, compact all embankment, including side roads and entrances.

NO.	DATE	REVISIONS	BY	APP'D
5	10-17-11	Revised General Note	S.W.K.	J.O.B.
4	1-05-10	Added additional subsidiary comp.	S.W.K.	J.O.B.
3	2-16-05	Redrawn, Rev. Recon. Sec. C-C & D-D	S.W.K.	J.O.B.
2	5-29-98	Revised Reconstruction Section B-B	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION			
FOUNDATION TREATMENT & COMPACTION OF EARTHWORK			
RD605			
DESIGNED	12-5-11	APP'D	James O. Brewer
QUANTITIES	DETAILED	TRACED	Bowser
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK. King

KDOT Graphics Certified 05-06-2021

GENERAL NOTES

THE GEOLOGICAL INFORMATION SHOWN ON THESE PLANS IS FROM STUDIES MADE IN THE FIELD AND REPRESENTS THE BEST INFORMATION AVAILABLE TO THE ENGINEER.

UTILITY LOCATIONS AS SHOWN WERE COMPLETED WITH THE BEST INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PLAN PREPARATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING, IDENTIFYING AND MAKING THEIR OWN DETERMINATIONS OF SUBSURFACE CONDITIONS. NO DIRECT PAYMENT WILL BE MADE FOR ABANDONED UTILITY REMOVAL. SUCH WORK SHALL BE CONSIDERED SUBSIDIARY.

THE CONTRACTOR SHALL CALL 1-800-DIG-SAFE PRIOR TO ANY PROJECT EXCAVATION AND SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES FOR LOCATION OF EXISTING UTILITIES AND COORDINATE ANY NECESSARY RELOCATION AND/OR TEMPORARY SUPPORTS. ANY DAMAGE TO UTILITY LINES CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL CONFINE CONSTRUCTION OPERATIONS TO WITHIN THE RIGHTS-OF-WAY, EASEMENTS, OR CITY PROPERTY AS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE LOT PINS OR BOUNDARY MARKERS DISTURBED BY THE CONTRACTOR.

THE CONTRACTOR IS ENCOURAGED TO VIDEO PRIOR TO CONSTRUCTION. ANY DAMAGE TO ADJACENT SURFACING, PAVEMENT MARKINGS, CURB OR OTHER OBJECTS WITHIN OR OUT OF THE RIGHT-OF-WAY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

TREES MARKED WITH AN "X" ARE TO BE REMOVED. ALL OTHER TREES SHALL NOT BE DISTURBED WITHOUT THE APPROVAL OF THE ENGINEER.

MAINTENANCE OF DRAINAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EXCAVATION SHOWN TO BE WASTED SHALL BE WASTED ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO THE SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.

ALL ASPHALT AND CONCRETE TO BE REMOVED SHALL BE NEATLY SAW CUT. SAW CUTS SHALL BE FULL DEPTH AND SHALL BE SUBSIDIARY TO RELATED BID ITEMS. PAVEMENT REMOVAL AND REPLACEMENT LIMITS SHALL BE AS SHOWN ON THE PLANS. IF THE CONTRACTOR EXCEEDS THOSE LIMITS WITHOUT THE APPROVAL OF THE OWNER, IT SHALL BE AT THE CONTRACTOR'S EXPENSE.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIALS EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS DEPARTMENT OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS.

ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO MAKE CONNECTIONS TO EXISTING PIPE OR EXISTING SMALL STRUCTURES SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF PIPE INSTALLATION, THIS INCLUDES BUT IS NOT LIMITED TO CONNECTING THE UNDERDRAINS TO THE EXISTING INLETS.

THE CONTRACTOR SHALL NOTIFY ALL LANDOWNERS IN WRITING AT LEAST TWO (2) WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITIES WHICH WOULD TAKE PLACE ADJACENT TO THEIR PROPERTY. INDIVIDUAL DETAILS NOTICES OF ACCESS RESTRICTIONS SHALL BE HAND DELIVERED 48 HOURS PRIOR TO RESTRICTIONS PUT IN PLACE.

THE CONTRACTOR SHALL NOTIFY POLICE, FIRE, EMERGENCY PREPAREDNESS DEPARTMENTS, ETC. PRIOR TO BLOCKING OR RESTRICTING TRAFFIC ON ANY STREET.

MILLINGS: ALL MATERIALS REMOVED BY MILLING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

STATION INFORMATION FOR STORM SEWER STRUCTURES SHOWN IN THESE PLANS IS TO THE CENTER OF THE PROPOSED STRUCTURE. ALL STORM SEWER INLET AND MANHOLE DIMENSIONS ARE INSIDE DIMENSIONS.

NW COR. SEC. 31, T20S, R20E

1. FOUND 5/8" BAR AT GRADE
2. FOUND DUPLEX NAIL AND WASHER IN TOP OF WOOD POST ON WEST GUARD RAIL
3. NORTHEAST CORNER OF AREA INLET
4. + CUT IN SOUTH END OF WEST CONCRETE GUARD RAIL
5. + CUT IN SOUTH END OF EAST CONCRETE GUARD RAIL
6.   US 59 HIGHWAY
8. WEST FACE STEEL GUARD RAIL POST

66.83' S
63.35' SSW
94.66' N
36.62' E
20.25' E
5.08' ENE

CONTROL POINT #8

N. 1,916,590.843 E. 2,245,504.536
SET  "X24" IRON BAR WITH PLASTIC CAP MARKED
"BG CONS PS 758"
49.12' RT. OF   STA. 178+76.01

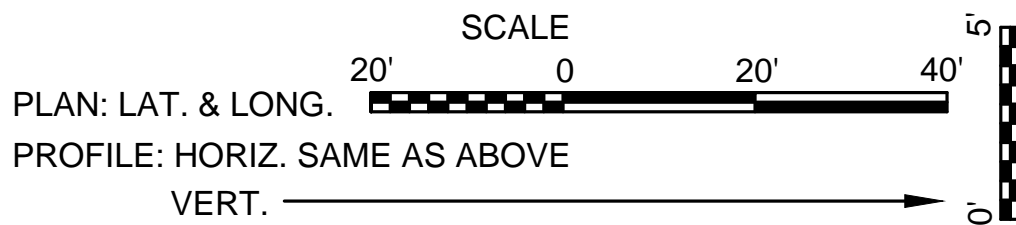
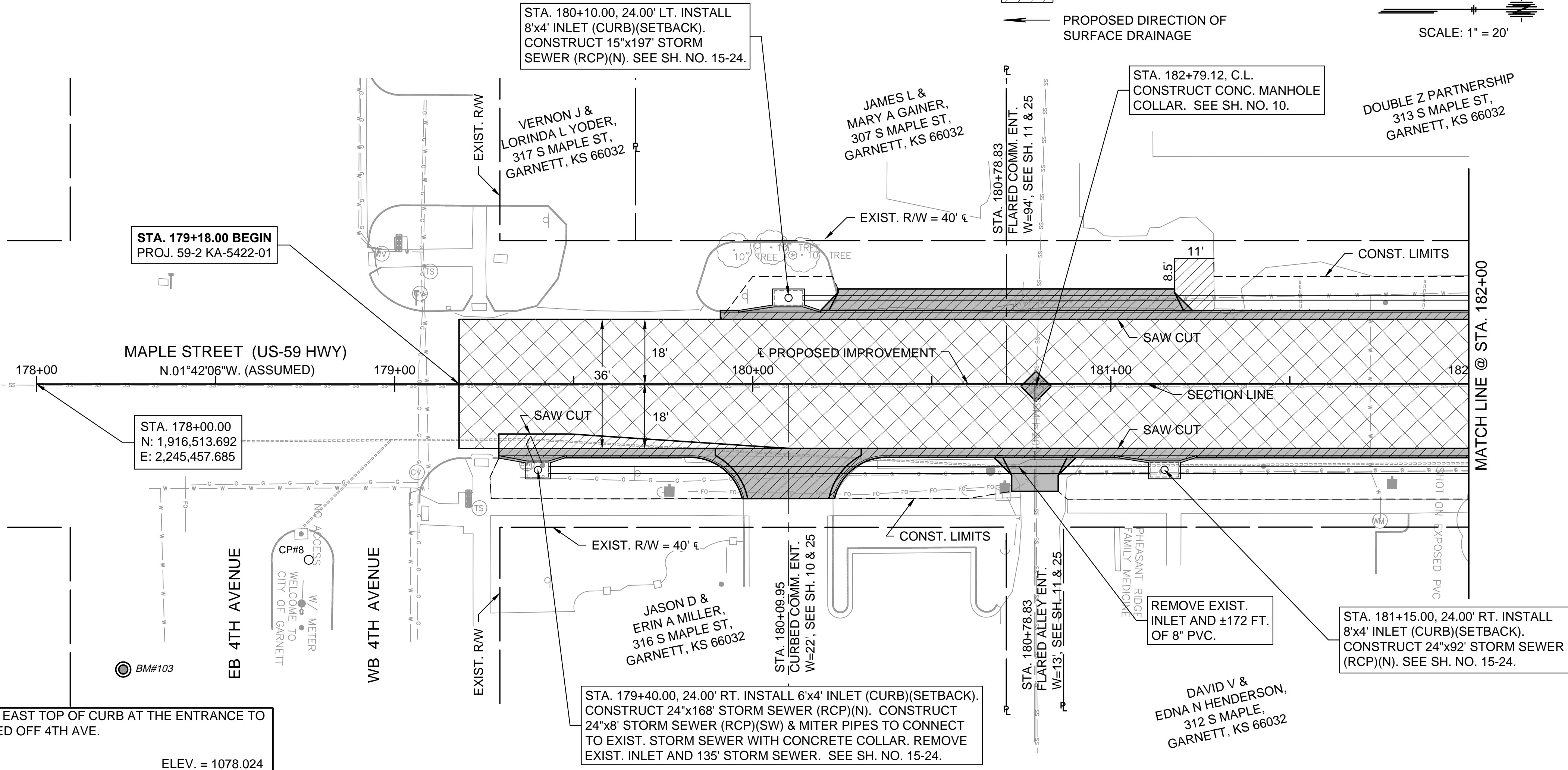
LEGEND

- PROPOSED CONCRETE
- PROPOSED MILLING
- REMOVE EXIST. PVM.T.
- PROPOSED DIRECTION OF SURFACE DRAINAGE

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	4	69



SCALE: 1" = 20'

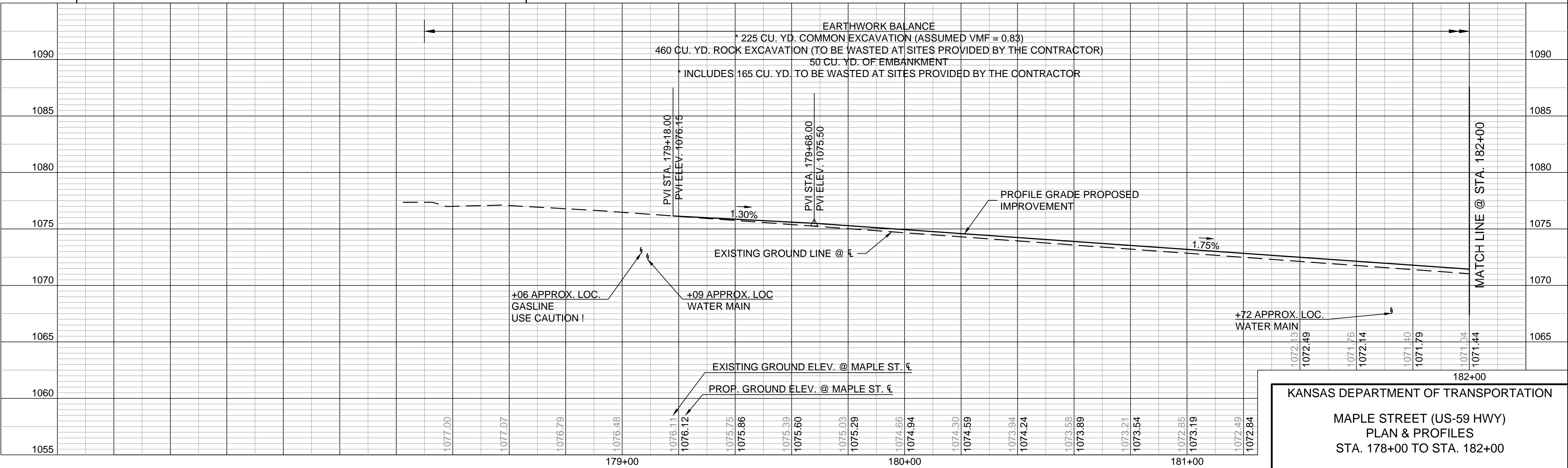


PROJECT SURVEY CONTROL
HORIZ. DATUM: OPUS STATIC OBSERVATION AT CP#1 (APRIL 16, 2020)
NORTHING: 1,948,549.167 STATE PLANE GRID
EASTING: 2,384,897.493 STATE PLANE GRID
COMBINED FACTOR FROM OPUS REPORT: .99991105
THIS DATA WAS USED TO COMPUTE PROJECT COORDINATES

VERT. DATUM: SEA LEVEL DATUM OF NAVD 88
OPUS STATIC OBSERVATION AT CP#1
ELEVATION: 152.294

UTILITY OWNERS

- WATER: CITY OF GARNETT, KS ATTN: ERIC MILLS 785-448-5496
- TELEPHONE: CENTURYLINK ATTN: ANDY TUTTLE 816-856-2232
- SANITARY SEWER: CITY OF GARNETT, KS ATTN: ERIC MILLS 785-448-5496
- CABLE TV: MEDIACOM CABLE ATTN: 1-800-344-7833
- NATURAL GAS: CITY OF GARNETT, KS ATTN: ERIC MILLS 785-448-5496
- ELECTRICITY: CITY OF GARNETT, KS ATTN: ERIC MILLS 785-448-5496



KANSAS DEPARTMENT OF TRANSPORTATION

MAPLE STREET (US-59 HWY)
PLAN & PROFILES
STA. 178+00 TO STA. 182+00

- LEGEND
- PROPOSED CONCRETE

PROPOSED MILLING

REMOVE EXIST. PVM'T.

PROPOSED DIRECTION OF SURFACE DRAINAGE

CONTROL POINT #7
 N. 1,916,956.088 E. 2,245,473.480
 SET 1/2"X24" IRON BAR WITH PLASTIC CAP MARKED
 "BG CONS PS 758"
 28.92' RT. OF ϵ STA. 182+42.02

STA. 182+53.90, 44.00' LT. CONSTRUCT
 92.1 SQ. YDS. OF CONCRETE
 PAVEMENT (8" UNIFORM)(AE). SEE
 PAVEMENT SECTION, SH. NO. 2. SEE
 INTERSECTION DETAIL, SH. NO. 8.

GREENFIELD ENVIRONMENTAL
 MULTISTATE TRUST LLC
 00000 S MAPLE ST,
 GARNETT, KS 66032

AARON LIZER AGENCY INC
 213 S MAPLE ST,
 GARNETT, KS 66032

AMANDA JONES
 209 S MAPLE ST,
 GARNETT, KS 66032

STACEY D LEMMONS
 201 S MAPLE ST,
 GARNETT, KS 66032

BRANDON REESE
 121 S MAPLE ST,
 GARNETT, KS 66032

BG CONSULTANTS
 ENGINEERS · ARCHITECTS · SURVEYORS

SCALE: 1" = 20'

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	5	69

CONSTRUCT TYPE 1 CURB
 RAMP. SEE SH. NO. 13.

 STA. 182+15.00, 24.00' LT. INSTALL
 8"x4' INLET (CURB)(SETBACK).
 CONSTRUCT 18"x44' STORM SEWER
 (RCP)(E). SEE SH. NO. 15-24.

STA. 182+15.00, 24.00' RT. INSTALL
 8"x4' INLET (CURB)(SETBACK).
 CONSTRUCT 30"x176' STORM SEWER
 (RCP)(N). SEE SH. NO. 15-24.

STA. 182+68.63, 40.50' RT. CONSTRUCT
 87.8 SQ. YDS. OF CONCRETE
 PAVEMENT (8" UNIFORM)(AE). SEE
 PAVEMENT SECTION, SH. NO. 2. SEE
 INTERSECTION DETAIL, SH. NO. 8.

CONSTRUCT TYPE 1 CURB
 RAMP. SEE SH. NO. 13.

GARRY R JR &
 STEFFANIE KIRKLAND,
 425 W 3RD AVE, Garnett,
 KS 66032

JIMMY C &
 PAMELA S MCSWANE,
 MITCHELL M MCSWANE,
 214 S MAPLE ST,
 GARNETT, KS 66032

STA. 184+00.00, 24.00' RT. INSTALL
 10"x4' INLET (CURB)(SETBACK).
 CONSTRUCT 30"x190' STORM SEWER
 (RCP)(N). SEE SH. NO. 15-24.

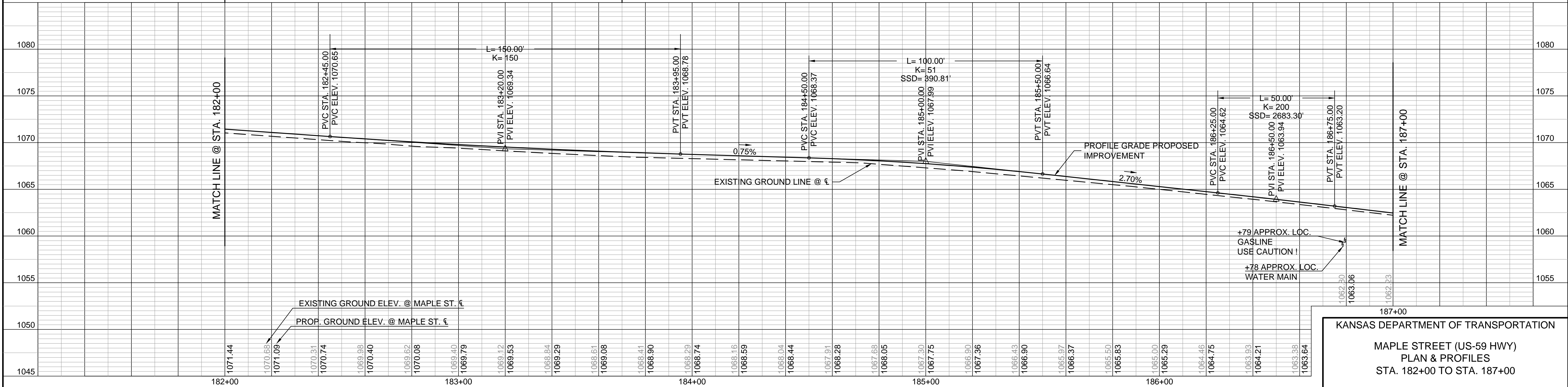
STA. 186+00.00, 24.00' RT. INSTALL
 10"x4' INLET (CURB)(SETBACK).
 CONSTRUCT 30"x150' STORM SEWER
 (RCP)(N). SEE SH. NO. 15-24.

CONSTRUCT TYPE 1 CURB
 RAMP. SEE SH. NO. 13.

STA. 186+50.00, 40.50' RT. CONSTRUCT
 85.3 SQ. YDS. OF CONCRETE
 PAVEMENT (8" UNIFORM)(AE). SEE
 PAVEMENT SECTION, SH. NO. 2. SEE
 INTERSECTION DETAIL, SH. NO. 8.

- UTILITY OWNERS
- WATER: CITY OF GARNETT, KS
 - SANITARY SEWER: CITY OF GARNETT, KS
 - NATURAL GAS: CITY OF GARNETT, KS
 - ELECTRICITY: CITY OF GARNETT, KS
 - TELEPHONE: CENTURYLINK
 - CABLE TV: MEDIACOM CABLE

BM #102 - SET "□" CUT 3' NORTH OF THE SOUTH END OF A 12" RETAINING WALL AT THE
 SOUTHEAST CORNER OF MAPLE ST. AND 2ND AVE. APPROX. 29' SOUTH OF 2ND AVE.
 21.01' RT. OF ϵ STA. 186+19.79
 N. 1,917,333.463 E. 2,245,454.353
 ELEV. = 1065.004



BG PROJECT #19-1514L

- LEGEND
- PROPOSED CONCRETE
 - PROPOSED MILLING
 - REMOVE EXIST. PVM'T.
 - PROPOSED DIRECTION OF SURFACE DRAINAGE

CONTROL POINT #4
N. 1,918,403.938 E. 2,245,374.431
SET 1/2"x24" IRON BAR WITH PLASTIC CAP MARKED
"BG CONS PS 758"
27.09 LT. OF ℓ STA. 196+92.17

STA. 193+14.10, C.L.
CONSTRUCT CONC. MANHOLE
COLLAR. SEE SH. NO. 10.

STA. 193+98, 40' LT.
END OF PROP. STORM SEWER
CONSTRUCTION. CONNECT
TO EXIST. WING WALL.

CONTROL POINT #5
N. 1,917,950.806 E. 2,245,445.358
SET 1/2"x24" IRON BAR WITH PLASTIC CAP MARKED
"BG CONS PS 758"
30.35' RT. OF ℓ STA. 192+37.13

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	7	69

BG CONSULTANTS
ENGINEERS · ARCHITECTS · SURVEYORS

SCALE: 1" = 20'

STA. 192+10.00, 27.50' LT. INSTALL
8"x4" INLET (CURB)(SETBACK).
INSTALL 24"x177' STORM SEWER
(RCP)(N). SEE SH. NO. 15-24.

ROTTINGHAUS REAL
ESTATE LLC
109 N MAPLE ST.
GARNETT, KS 66032

ROC EM LLC
115 N MAPLE ST.
GARNETT, KS 66032

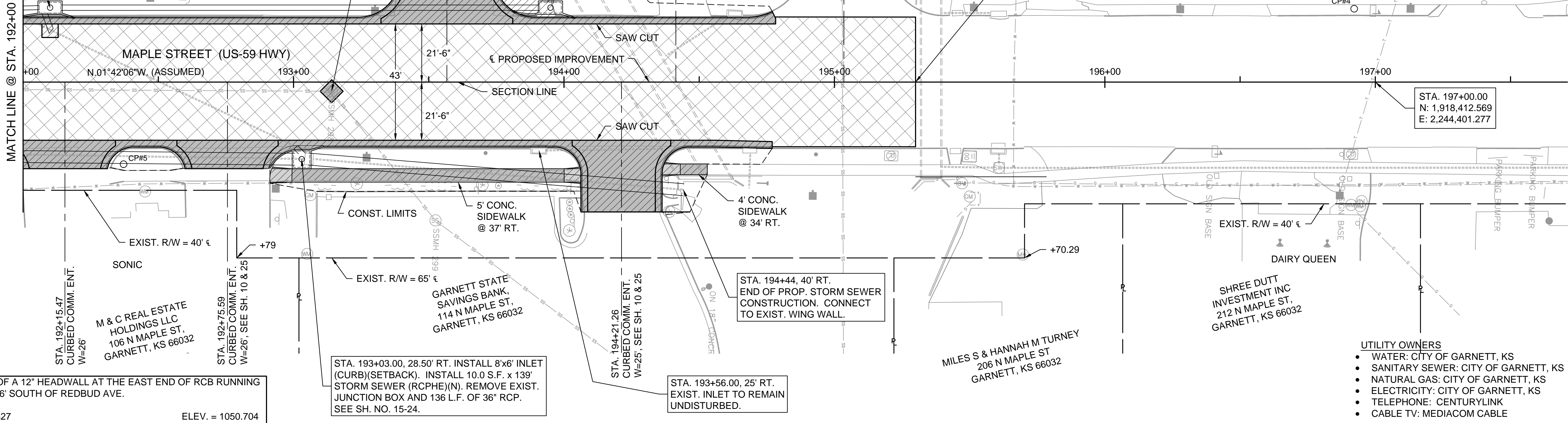
EARL F &
ANN LIZER, TRUST
N HWY 59.
GARNETT, KS 66032

STA. 195+30.00 END
PROJ. 59-2 KA-5422-01
= STA. 195+30.00 ON
PROJ. 59-2 F067-2(8)

EARL F &
ANN TTEES LIZER, TRUST
205 N MAPLE ST.
GARNETT, KS 66032

MATCH LINE @ STA. 192+00

STA. 197+00.00
N: 1,918,412.569
E: 2,244,401.277



BM #101 - SET "C" CUT ON NORTH END OF A 12" HEADWALL AT THE EAST END OF RCB RUNNING
UNDER MAPLE ST. APPROX. 86' SOUTH OF REDBUD AVE.
194+21.55' LT. OF ℓ STA. 34.23
N. 1,918,133.225 E. 2,245,375.327
ELEV. = 1050.704

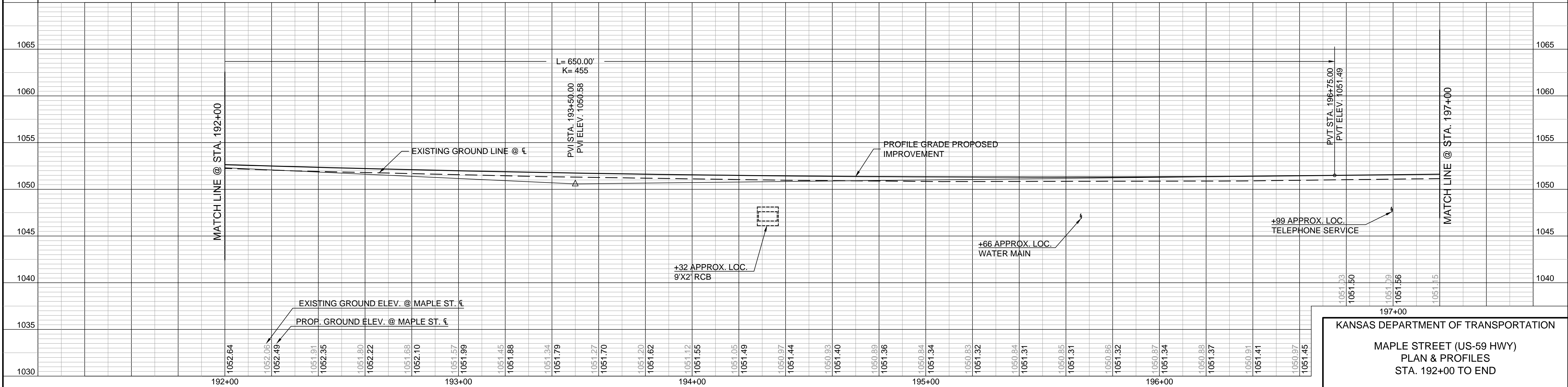
STA. 193+03.00, 28.50' RT. INSTALL 8"x6" INLET
(CURB)(SETBACK). INSTALL 10.0 S.F. x 139'
STORM SEWER (RCP)(N). REMOVE EXIST.
JUNCTION BOX AND 136 L.F. OF 36" RCP.
SEE SH. NO. 15-24.

STA. 194+44, 40' RT.
END OF PROP. STORM SEWER
CONSTRUCTION. CONNECT
TO EXIST. WING WALL.

STA. 193+56.00, 25' RT.
EXIST. INLET TO REMAIN
UNDISTURBED.

UTILITY OWNERS

- WATER: CITY OF GARNETT, KS
- SANITARY SEWER: CITY OF GARNETT, KS
- NATURAL GAS: CITY OF GARNETT, KS
- ELECTRICITY: CITY OF GARNETT, KS
- TELEPHONE: CENTURYLINK
- CABLE TV: MEDIACOM CABLE



KANSAS DEPARTMENT OF TRANSPORTATION

MAPLE STREET (US-59 HWY)
PLAN & PROFILES
STA. 192+00 TO END

BG PROJECT #19-1514L

GENERAL NOTES

ALL TOP OF CURB ELEVATIONS ON THIS SHEET ARE FOR "CURB AND GUTTER - TYPE I".
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE HEIGHT OF THE CURB AT
LOCATIONS WHERE "CURB AND GUTTER - TYPE II" OR OTHER TYPES OF CURB AND GUTTER
ARE TO BE CONSTRUCTED.

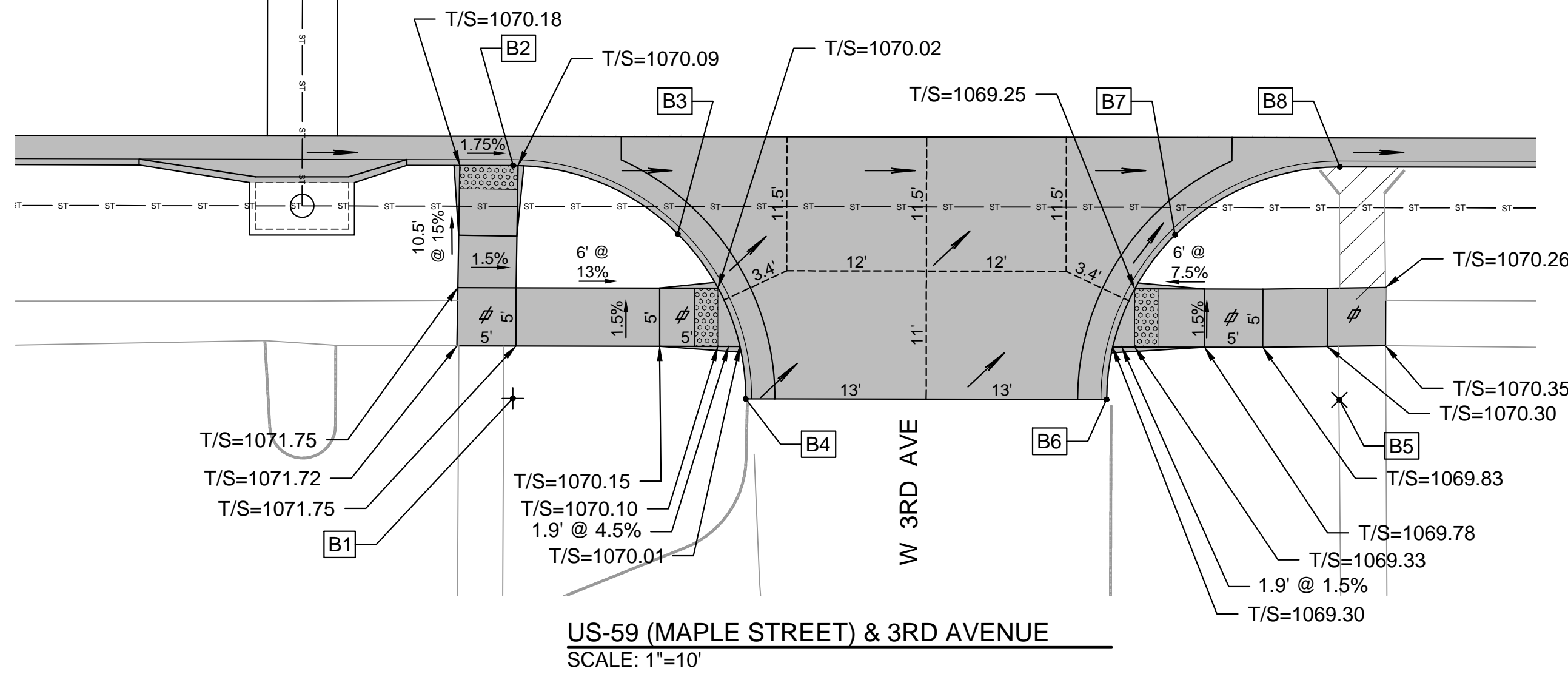
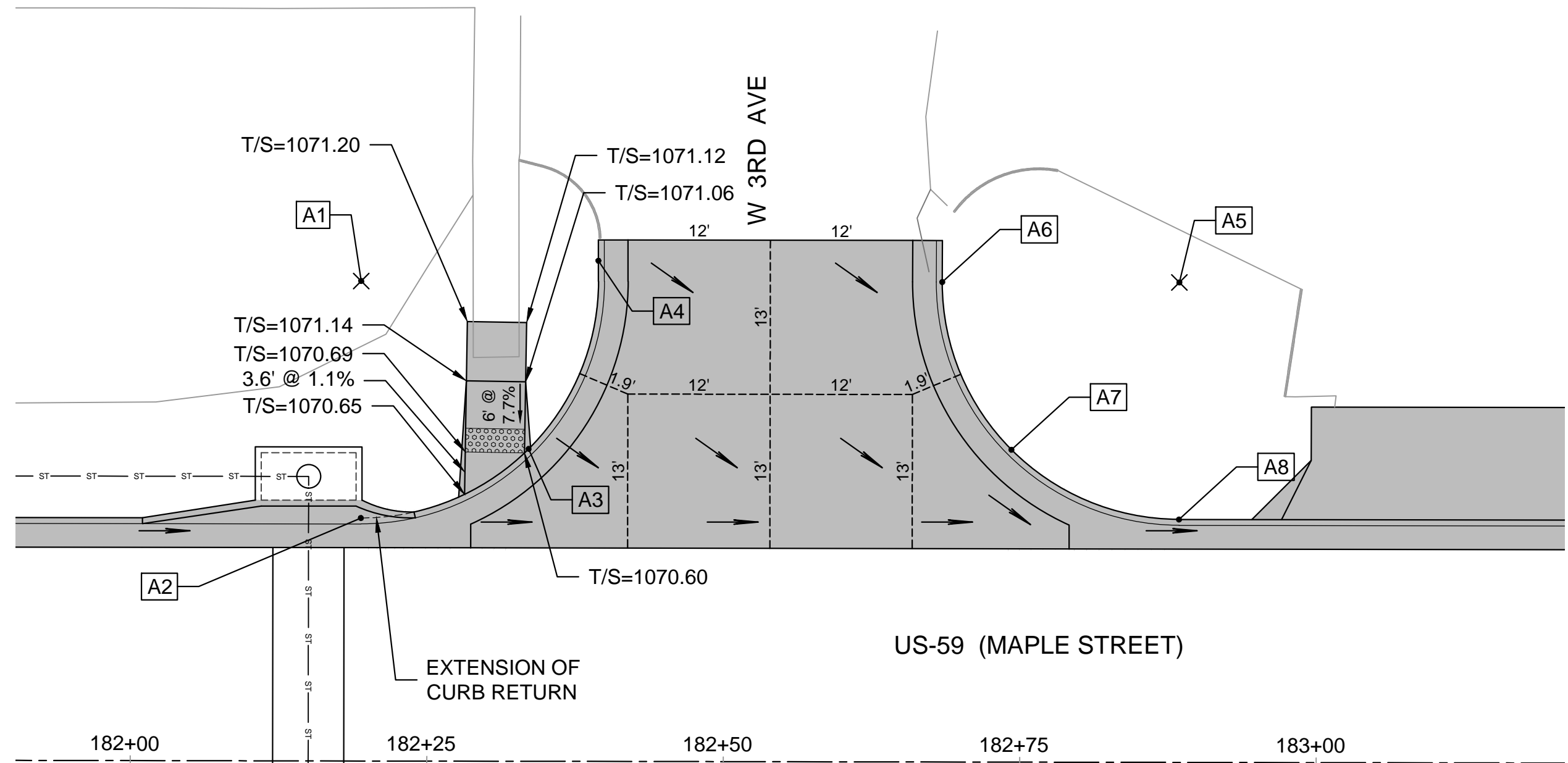
∅ = LEVEL AREA IN THE SIDEWALK/SIDEWALK RAMP ALIGNMENT WHICH SHALL BE SLOPED
TO MAINTAIN POSITIVE DRAINAGE, BUT IN NO CASE SHALL THE SLOPE EXCEED 2.00%
MEASURED IN ANY DIRECTION. SEE THE ACCESS RAMP CONSTRUCTION DETAILS FOR
MORE INFORMATION.

WHERE NEW CONCRETE SIDEWALK ABUTS EXISTING SIDEWALKS, THE TIE-IN LOCATION
SHALL BE FLUSH. NO VERTICAL DISCONTINUITIES WILL BE ALLOWED.

FIELD VERIFY THAT THAT A COUNTER SLOPE OF 5% OR FLATTER IS USED AT THE BASE OF
CURB RAMPS (PER RD725) AND THAT INDICATED DRAINAGE PATTERNS ARE MAINTAINED.

LEGEND

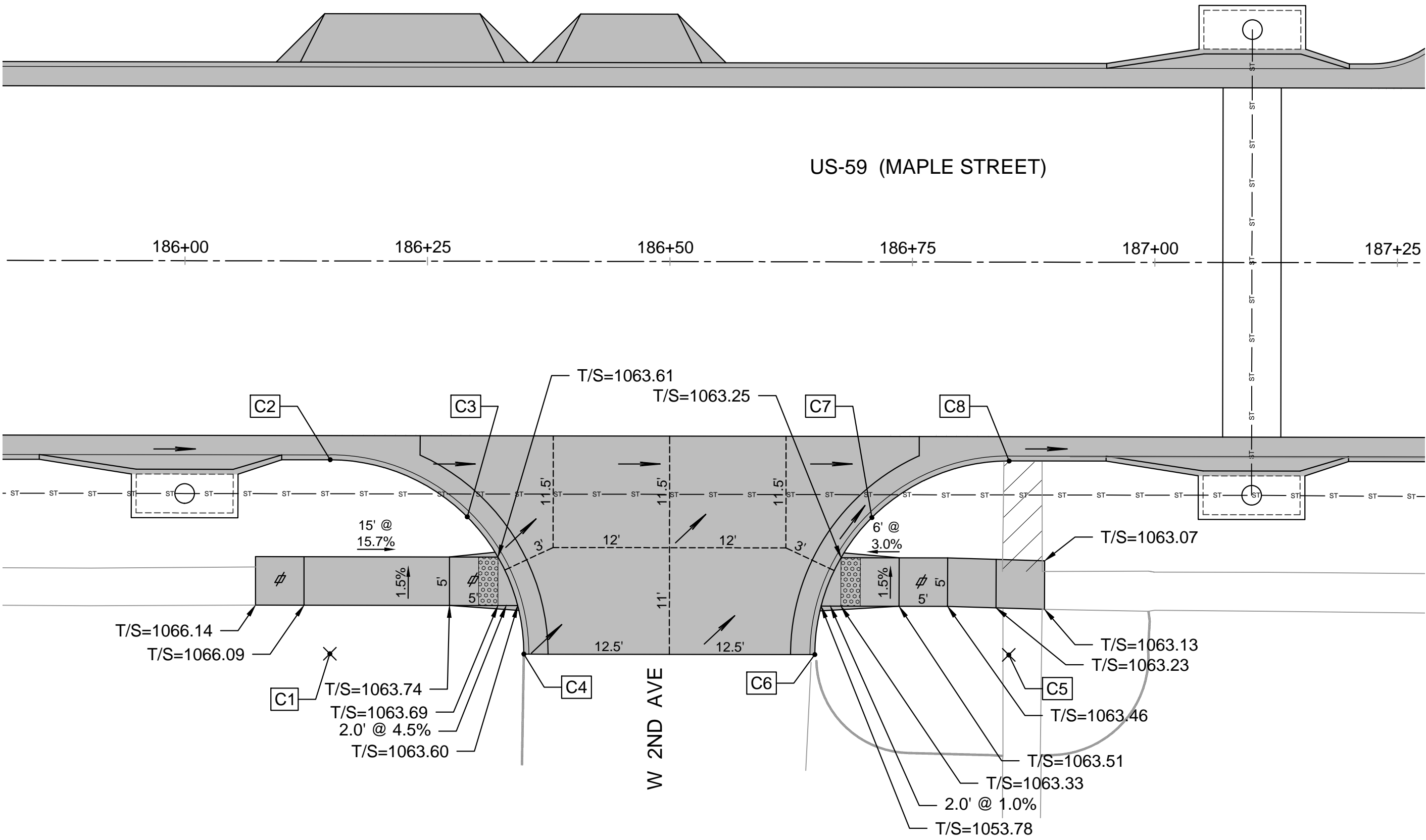
- PROPOSED DIRECTION OF SURFACE DRAINAGE
- 10' - PROPOSED CONTRACTION JOINT & JOINT LENGTH
ECR END OF CURB RETURN
QP QUARTER-POINT OF CURB RETURN
MP MID-POINT OF CURB RETURN
T/C TOP OF CURB (TYPE CG1 CURB AND GUTTER)
T/P TOP OF PAVEMENT
T/R TOP OF RAMP
T/S TOP OF SIDEWALK
■ PROPOSED CONCRETE



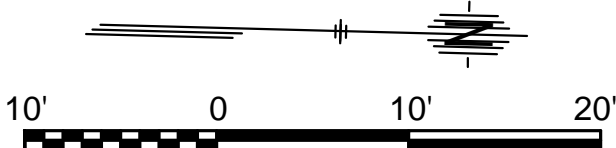
POINT	STATION	SIDE	NORTHING	EASTING	T/C ELEV.	REMARKS
A1	182+19.40	40.50' Lt.	1,916,931.424	2,245,404.758	N/A	Radius Point
A2	182+19.40	20.50' Lt.	1,916,932.018	2,245,424.749	1,070.73	ECR
A3	182+33.55	26.36' Lt.	1,916,945.980	2,245,418.474	1,071.00	MP
A4	182+39.40	40.50' Lt.	1,916,951.415	2,245,404.164	1,071.25	ECR
A5	182+88.40	40.50' Lt.	1,917,000.394	2,245,402.709	N/A	Radius Point
A6	182+68.40	40.50' Lt.	1,916,980.402	2,245,403.303	1,071.19	ECR
A7	182+74.26	26.36' Lt.	1,916,986.678	2,245,417.265	1,070.50	MP
A8	182+88.40	20.50' Lt.	1,917,000.988	2,245,422.701	1,069.59	ECR

POINT	STATION	SIDE	NORTHING	EASTING	T/C ELEV.	REMARKS
B1	182+33.13	40.50' Rt.	1,916,947.550	2,245,485.315	N/A	Radius Point
B2	182+33.13	20.50' Rt.	1,916,946.956	2,245,465.324	1,070.49	ECR
B3	182+47.27	26.36' Rt.	1,916,961.266	2,245,470.759	1,070.45	MP
B4	182+53.13	40.50' Rt.	1,916,967.541	2,245,484.721	1,070.35	ECR
B5	183+04.13	40.50' Rt.	1,917,018.518	2,245,483.207	N/A	Radius Point
B6	182+84.13	40.50' Rt.	1,916,998.527	2,245,483.801	1,069.75	ECR
B7	182+89.99	26.36' Rt.	1,917,003.963	2,245,469.491	1,069.60	MP
B8	183+04.13	20.50' Rt.	2,245,469.491	2,245,463.216	1,069.37	ECR

POINT	STATION	SIDE	NORTHING	EASTING	T/C ELEV.	REMARKS
C1	186+15.00	40.50' Rt.	1,917,329.250	2,245,473.976	N/A	Radius Point
C2	186+15.00	20.50' Rt.	1,917,328.656	2,245,453.985	1,064.52	ECR
C3	186+29.14	26.36' Rt.	1,917,342.966	2,245,459.420	1,064.28	MP
C4	186+35.00	40.50' Rt.	1,917,349.241	2,245,473.382	1,063.86	ECR
C5	186+85.00	40.50' Rt.	1,917,399.219	2,245,471.898	N/A	Radius Point
C6	186+65.00	40.50' Rt.	1,917,379.228	2,245,472.491	1,063.74	ECR
C7	186+70.86	26.36' Rt.	1,917,384.663	2,245,458.182	1,063.64	MP
C8	186+85.00	20.50' Rt.	1,917,398.625	2,245,451.906	1,062.54	ECR



US-59 (MAPLE STREET) & 2ND AVENUE
SCALE: 1"=10'



SCALE: 1" = 10'

KANSAS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS

BG PROJECT #19-1514L

GENERAL NOTES

ALL TOP OF CURB ELEVATIONS ON THIS SHEET ARE FOR "CURB AND GUTTER - TYPE I".
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LOCATIONS WHERE "CURB AND GUTTER - TYPE II" OR OTHER TYPES OF CURB AND GUTTER
ARE TO BE CONSTRUCTED.

Ø = LEVEL AREA IN THE SIDEWALK/SIDEWALK RAMP ALIGNMENT WHICH SHALL BE SLOPED
TO MAINTAIN POSITIVE DRAINAGE, BUT IN NO CASE SHALL THE SLOPE EXCEED 2.00%
MEASURED IN ANY DIRECTION. SEE THE ACCESS RAMP CONSTRUCTION DETAILS FOR
MORE INFORMATION.

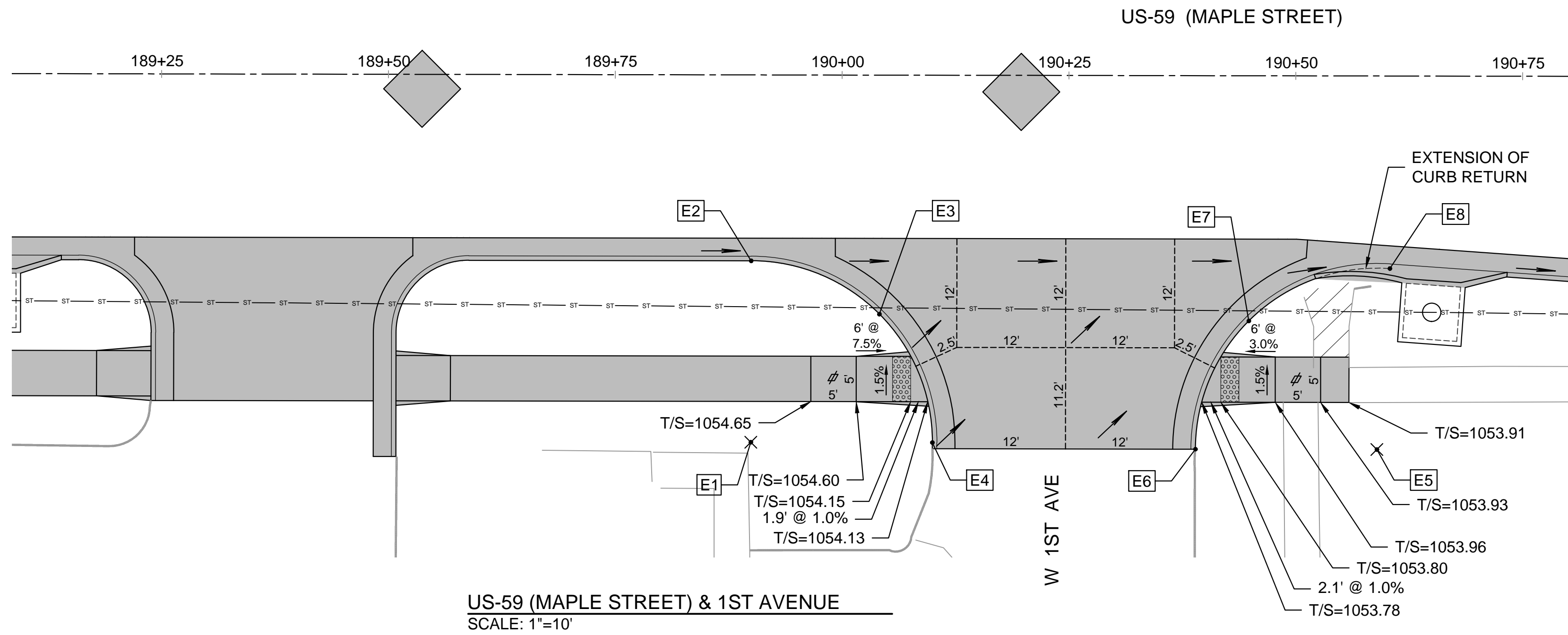
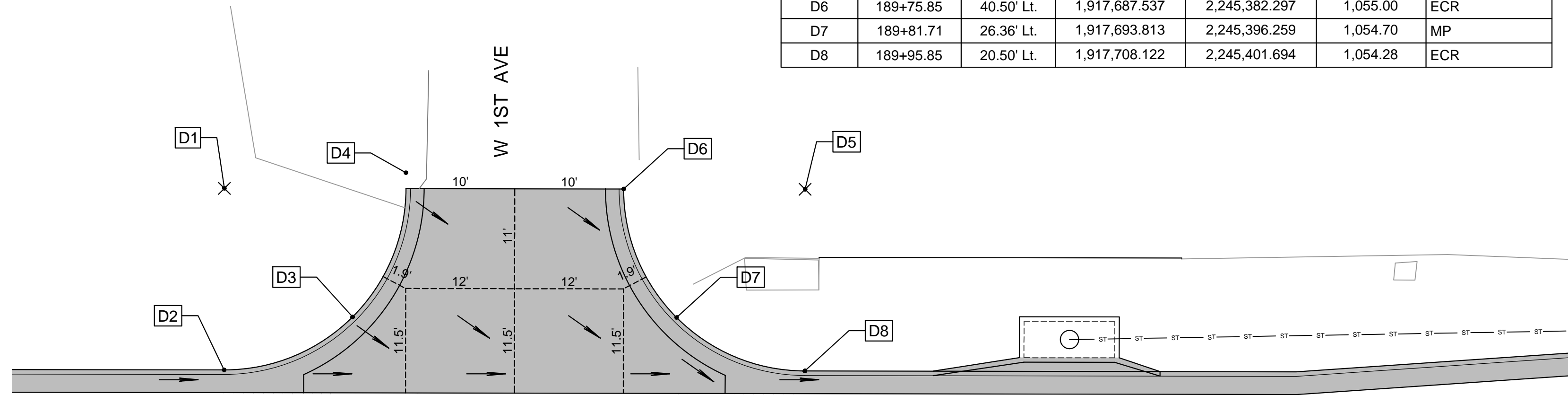
WHERE NEW CONCRETE SIDEWALK ABUTS EXISTING SIDEWALKS, THE TIE-IN LOCATION
SHALL BE FLUSH. NO VERTICAL DISCONTINUITIES WILL BE ALLOWED.

FIELD VERIFY THAT THAT A COUNTER SLOPE OF 5% OR FLATTER IS USED AT THE BASE OF
CURB RAMPS (PER RD725) AND THAT INDICATED DRAINAGE PATTERNS ARE MAINTAINED.

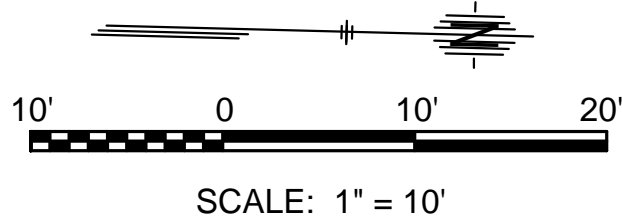
LEGEND

- ➔ PROPOSED DIRECTION OF SURFACE DRAINAGE
- -10'- - PROPOSED CONTRACTION JOINT & JOINT LENGTH
ECR END OF CURB RETURN
QP QUARTER-POINT OF CURB RETURN
MP MID-POINT OF CURB RETURN
T/C TOP OF CURB (TYPE CG1 CURB AND GUTTER)
T/P TOP OF PAVEMENT
T/R TOP OF RAMP
T/S TOP OF SIDEWALK
■ PROPOSED CONCRETE

POINT	STATION	SIDE	NORTHING	EASTING	T/C ELEV.	REMARKS
D1	189+31.85	40.50' Lt.	1,917,643.557	2,245,383.603	N/A	Radius Point
D2	189+31.85	20.50' Lt.	1,917,644.151	2,245,403.595	1,055.38	ECR
D3	189+45.99	26.36' Lt.	1,917,658.113	2,245,397.319	1,055.40	MP
D4	189+51.85	40.50' Lt.	1,917,663.548	2,245,383.010	1,055.66	ECR
D5	189+95.85	40.50' Lt.	1,917,707.529	2,245,381.703	N/A	Radius Point
D6	189+75.85	40.50' Lt.	1,917,687.537	2,245,382.297	1,055.00	ECR
D7	189+81.71	26.36' Lt.	1,917,693.813	2,245,396.259	1,054.70	MP
D8	189+95.85	20.50' Lt.	1,917,708.122	2,245,401.694	1,054.28	ECR



POINT	STATION	SIDE	NORTHING	EASTING	T/C ELEV.	REMARKS
E1	189+90.01	40.50' Rt.	1,917,704.091	2,245,462.841	N/A	Radius Point
E2	189+90.01	20.50' Rt.	1,917,703.497	2,245,442.850	1,054.35	ECR
E3	190+04.15	26.36' Rt.	1,917,717.807	2,245,448.285	1,054.40	MP
E4	190+10.01	40.50' Rt.	1,917,724.082	2,245,462.247	1,054.60	ECR
E5	190+59.01	40.50' Rt.	1,917,773.081	2,245,461.471	N/A	Radius Point
E6	190+39.01	40.50' Rt.	1,917,753.090	2,245,462.065	1,054.30	ECR
E7	190+45.37	26.36' Rt.	1,917,759.013	2,245,447.255	1,054.00	MP
E8	190+60.40	20.50' Rt.	1,917,773.884	2,245,441.487	1,053.56	ECR



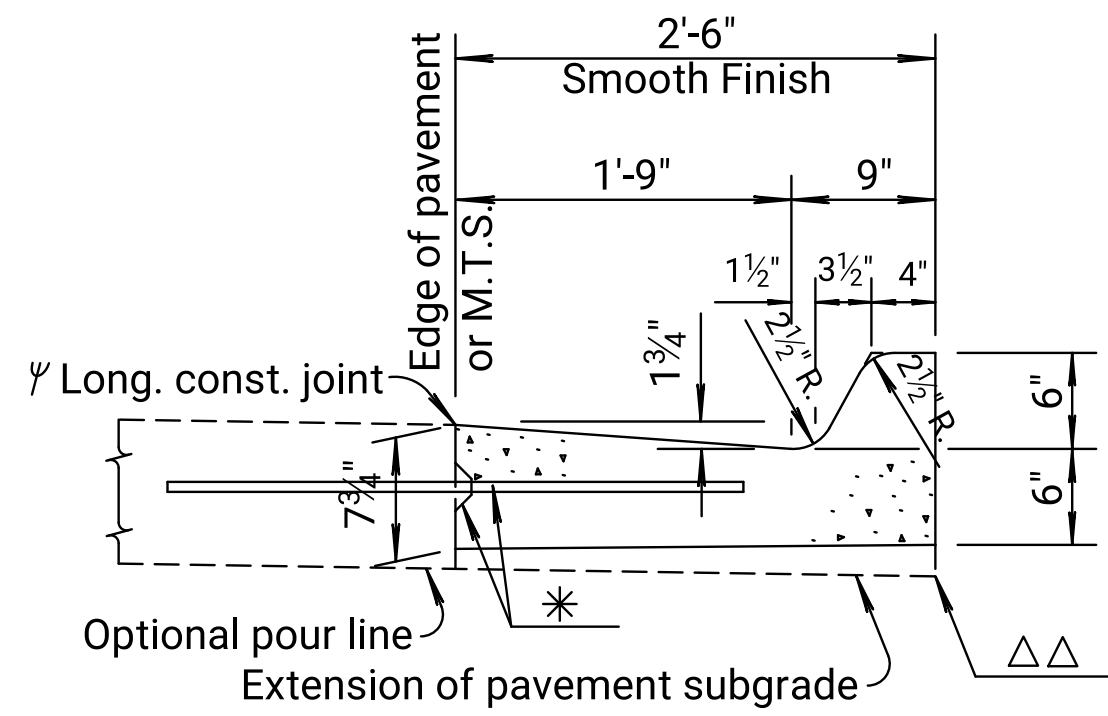
SCALE: 1" = 10'

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	9	69



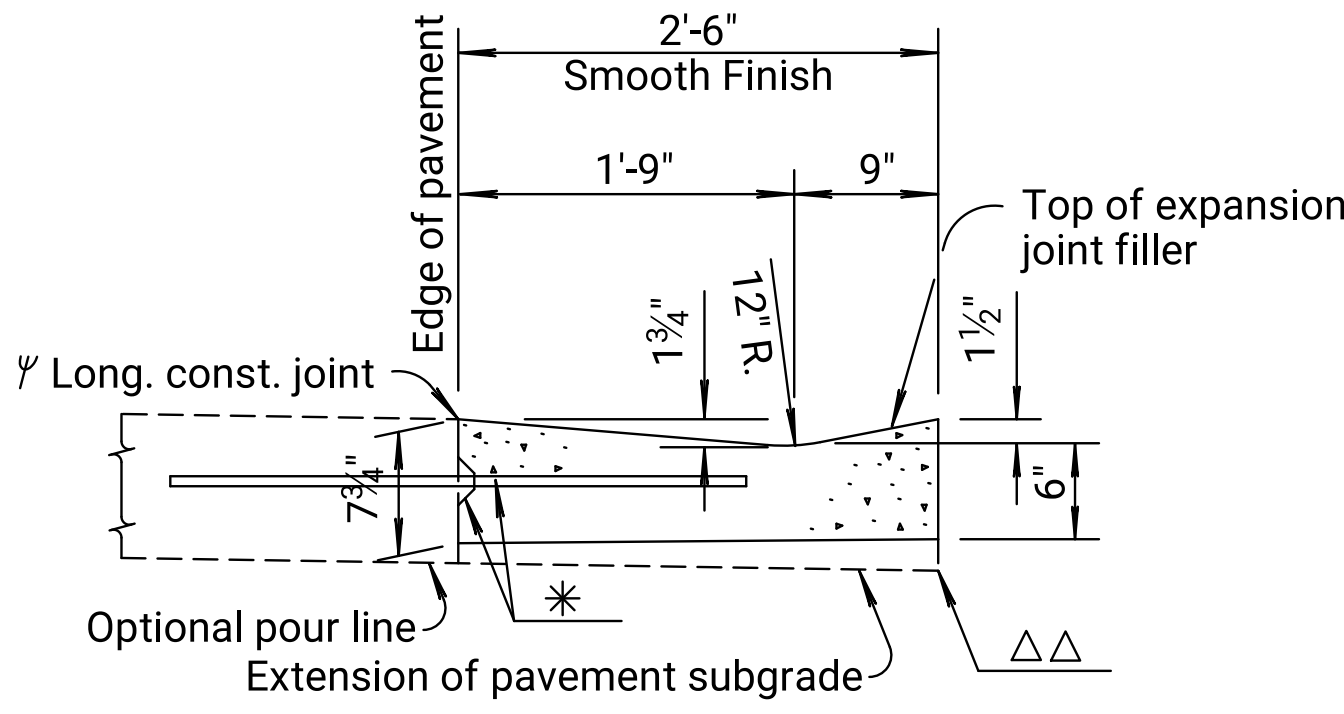
KANSAS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS



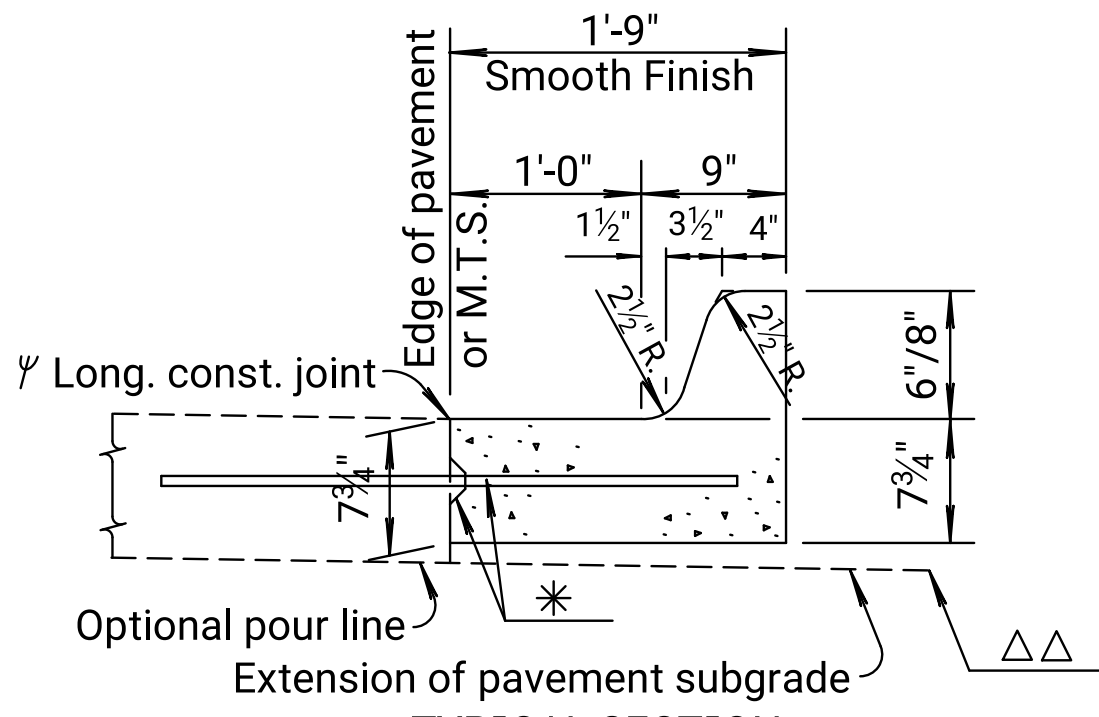
Note: Conc. C.&G. I contains 0.060 cu. yds. Conc. Grade 3.0 (AE) per lin.ft.

COMBINED CURB & GUTTER - TYPE I (2'-6" WIDTH)



Note: Conc. C.&G. II contains 0.053 cu. yds. Conc. Grade 3.0 (AE) per lin.ft.

COMBINED CURB & GUTTER - TYPE II (2'-6" WIDTH)



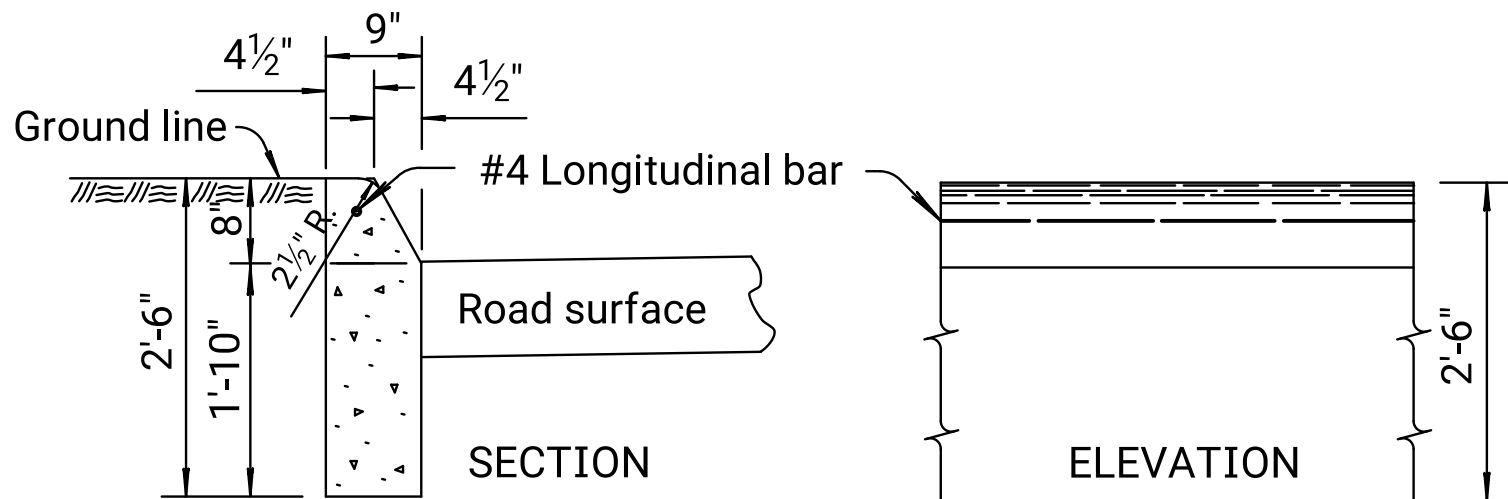
Note: Conc. C.&G. III contains 0.054 (8") & 0.051 (6") cu. yds. Conc. Grade 3.0 (AE) per lin. ft.

COMBINED CURB & GUTTER - TYPE III (1'-9" WIDTH)

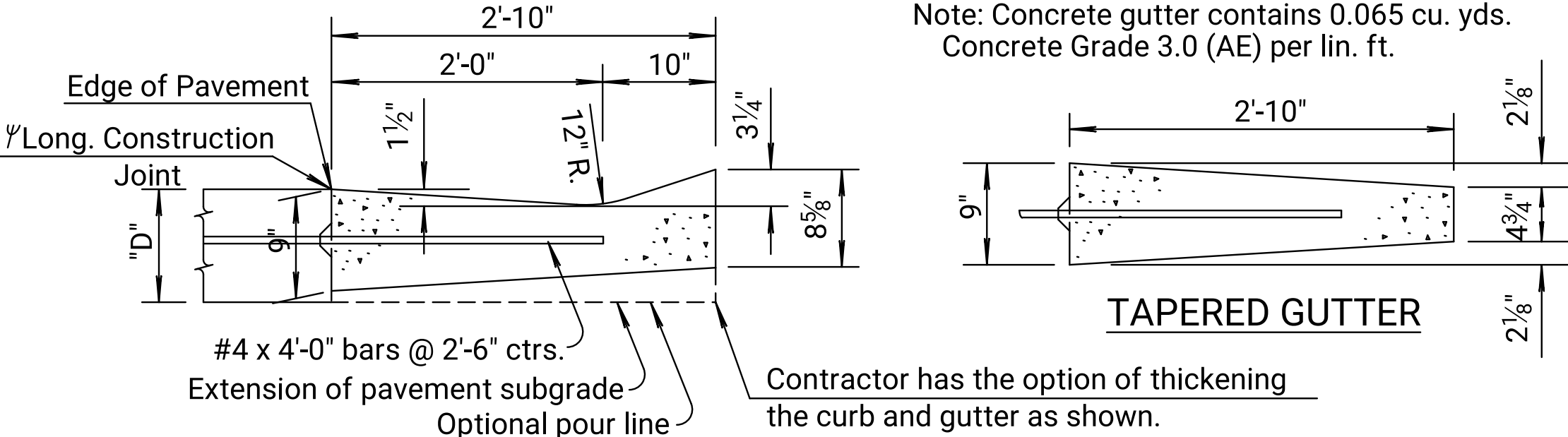
* Longitudinal construction joint and #4 x 3'-0" bars @ 2'-6" ctrs., where concrete pavement is constructed.

△△ Contractor has the option of thickening the curb and gutter as shown.

Note: Use Concrete Grade 3.0 (AE) throughout.
All exposed edges shall be finished with an edging tool.
Place a 1" Preformed Expansion Joint Filler (Nonextruding, Type B) at a spacing not to exceed 250'.

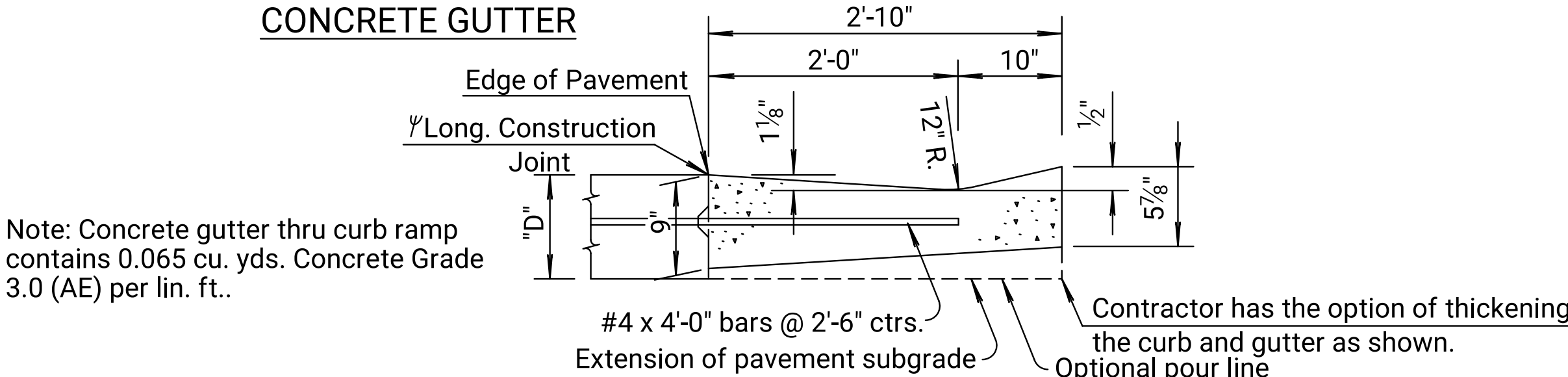


PROTECTION CURB 8"



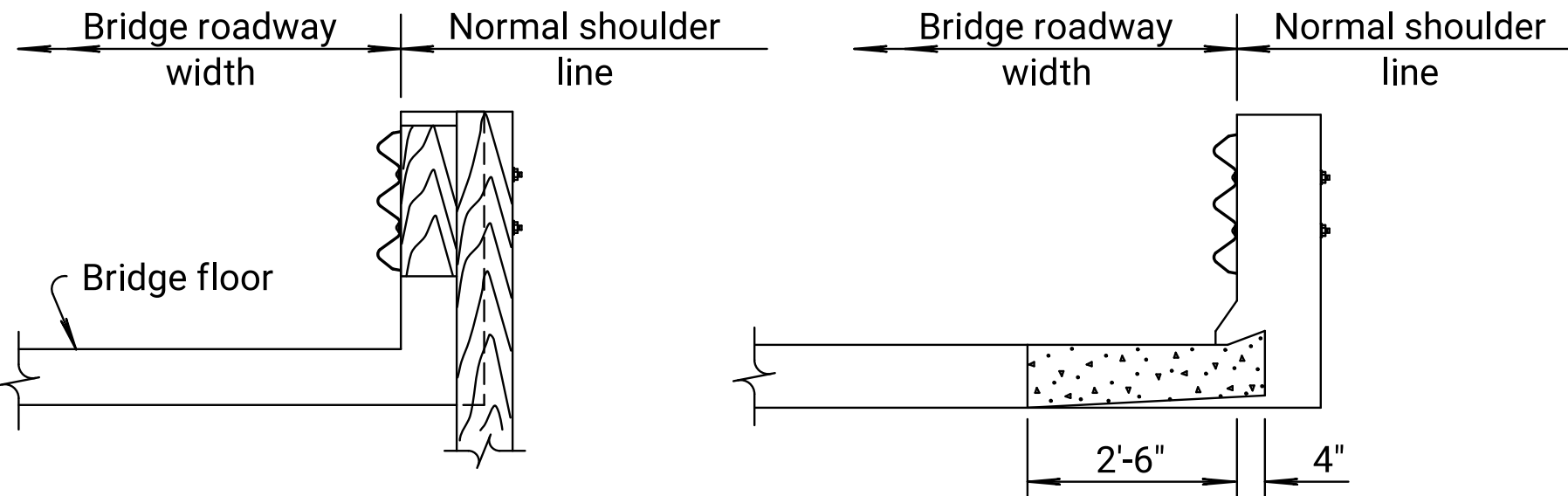
Note: Concrete gutter contains 0.065 cu. yds. Concrete Grade 3.0 (AE) per lin. ft.

CONCRETE GUTTER



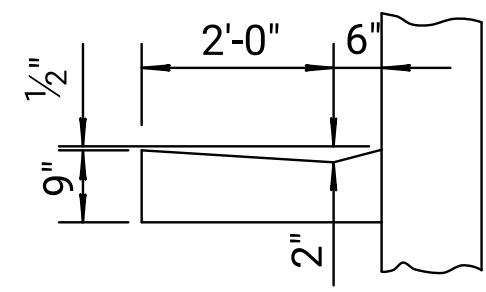
Note: Concrete gutter thru curb ramp contains 0.065 cu. yds. Concrete Grade 3.0 (AE) per lin. ft..

CONCRETE GUTTER THRU CURB RAMP

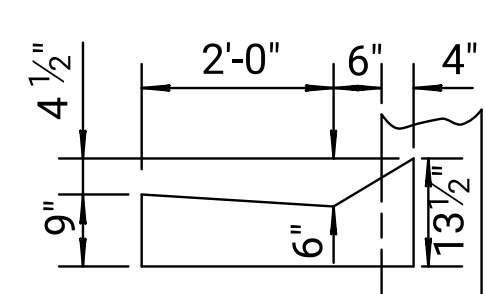


SECTION B-B

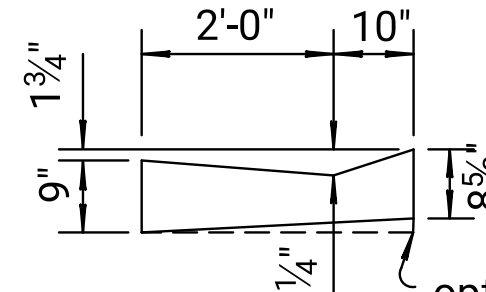
CONTROL POINT FOR FULL WIDTH ROADWAY BRIDGE



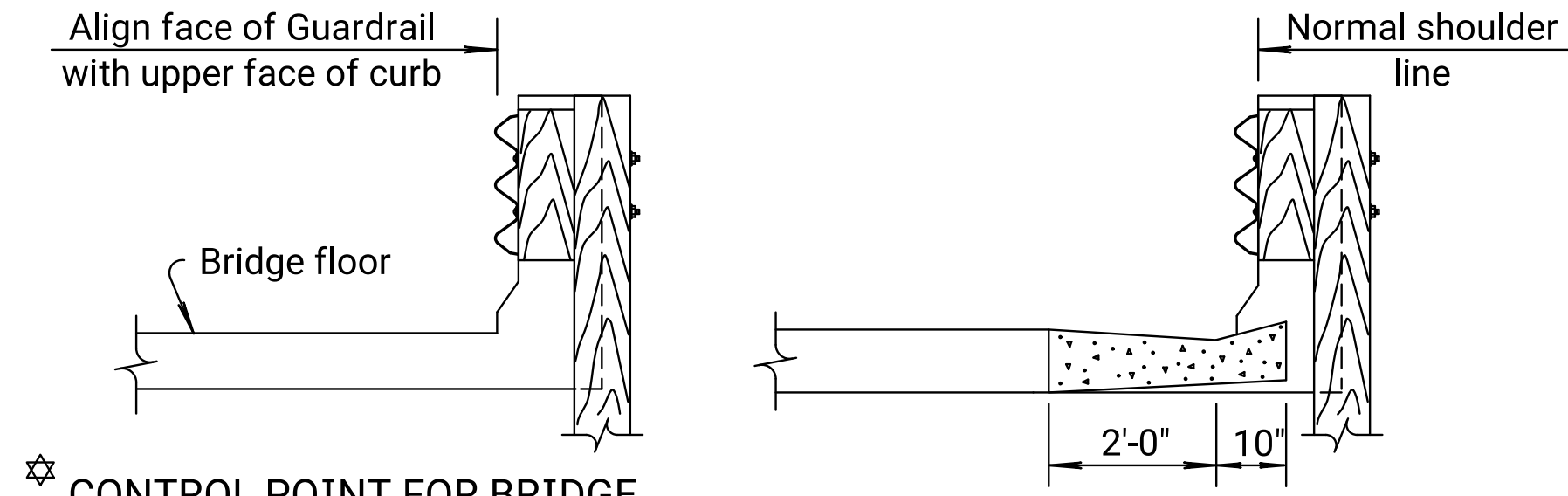
SECTION C-C



SECTION D-D



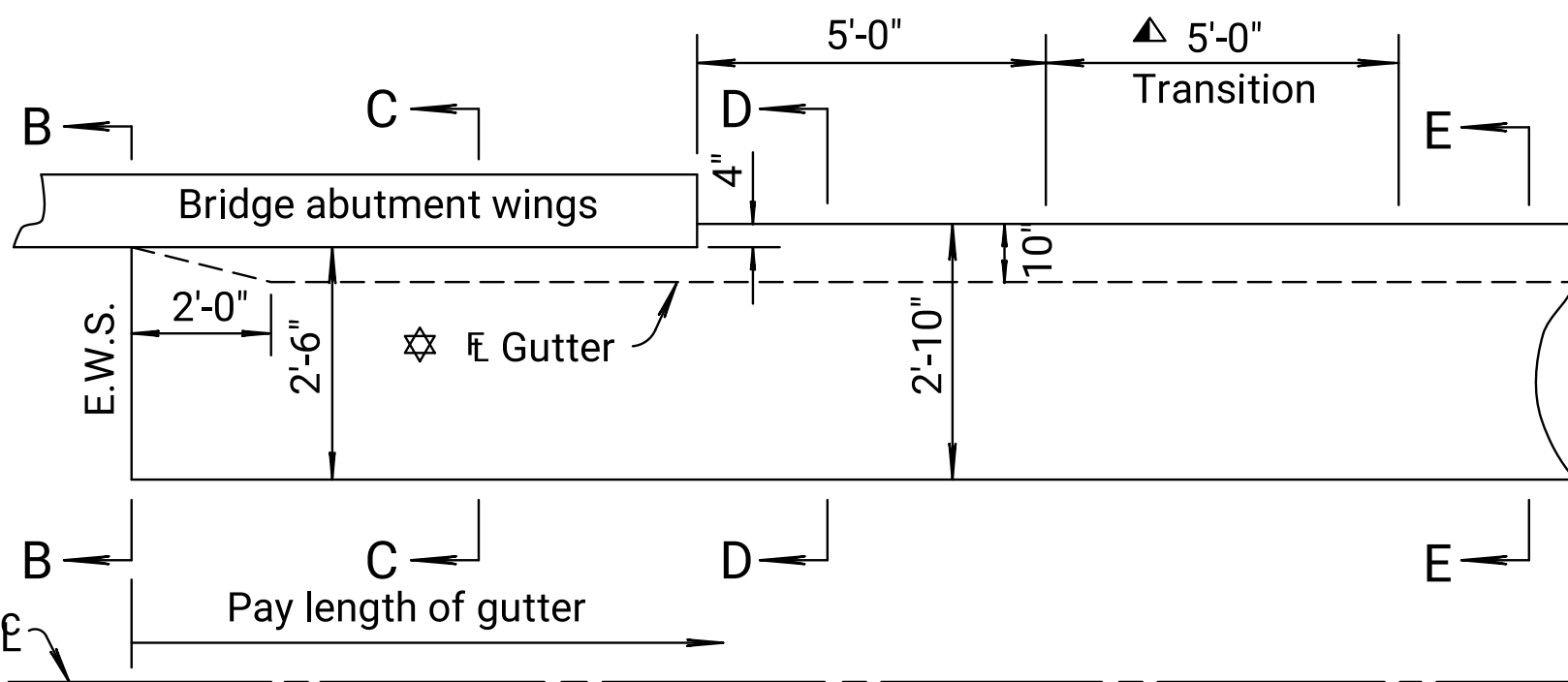
SECTION E-E



FULL GUTTER SECTION

☆ CONTROL POINT FOR BRIDGE WITH SAFETY TYPE CURB

At locations where the centerline grade is relatively flat and the pavement grade is such that the gutter will direct drainage onto the bridge, the flowline depth may be reduced as directed by the Engineer to facilitate drainage.



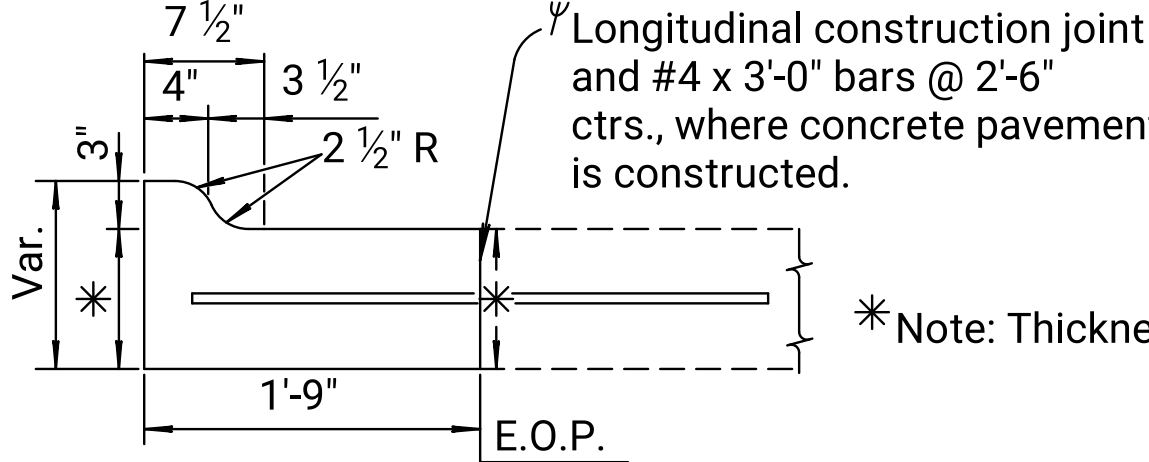
TYPICAL GUTTER @ BRIDGE ENDS

(Drawn for down grade end and "U" Type Abutments)

Note: Shaping of gutter is to be Subsidiary to "Gutter (AE)".

▲ Transition gutter to standard 2'-10" gutter section.

FOR RETROFIT OF BRIDGE APPROACHES WITH GUTTER



COMBINED CURB AND GUTTER (SPECIAL) (1'-9" WIDTH)

GENERAL NOTE

Combined curb and gutter or gutter adjoining concrete pavement may, at the contractor's option, be constructed either monolithically or separately, using either the mix used in the concrete pavement or Concrete Grade 3.0 (AE). The combined curb and gutter or gutter shall have the same section as shown on the plans. If constructed monolithically, the longitudinal joint and tie bars shall be omitted from the combined curb and gutter or gutter. Pavement Joints shall be continued through curb or gutter and no other planes of weakness will be required. Joints in the combined curb and gutter or gutter are to be filled with the same material as used for the pavement joints.

Expansion joints in the combined curb and gutter are to be placed opposite expansion joints in the pavement.

Where combined curb and gutter does not abut concrete pavement or concrete base course, omit tie bars and place a 1" Preformed Expansion Joint Filler (Type B) cut to the dimensions of the combined curb and gutter or gutter, at a spacing not to exceed 250' and at the ends of curb returns. Planes of weakness shall be constructed at 10'-0" intervals.

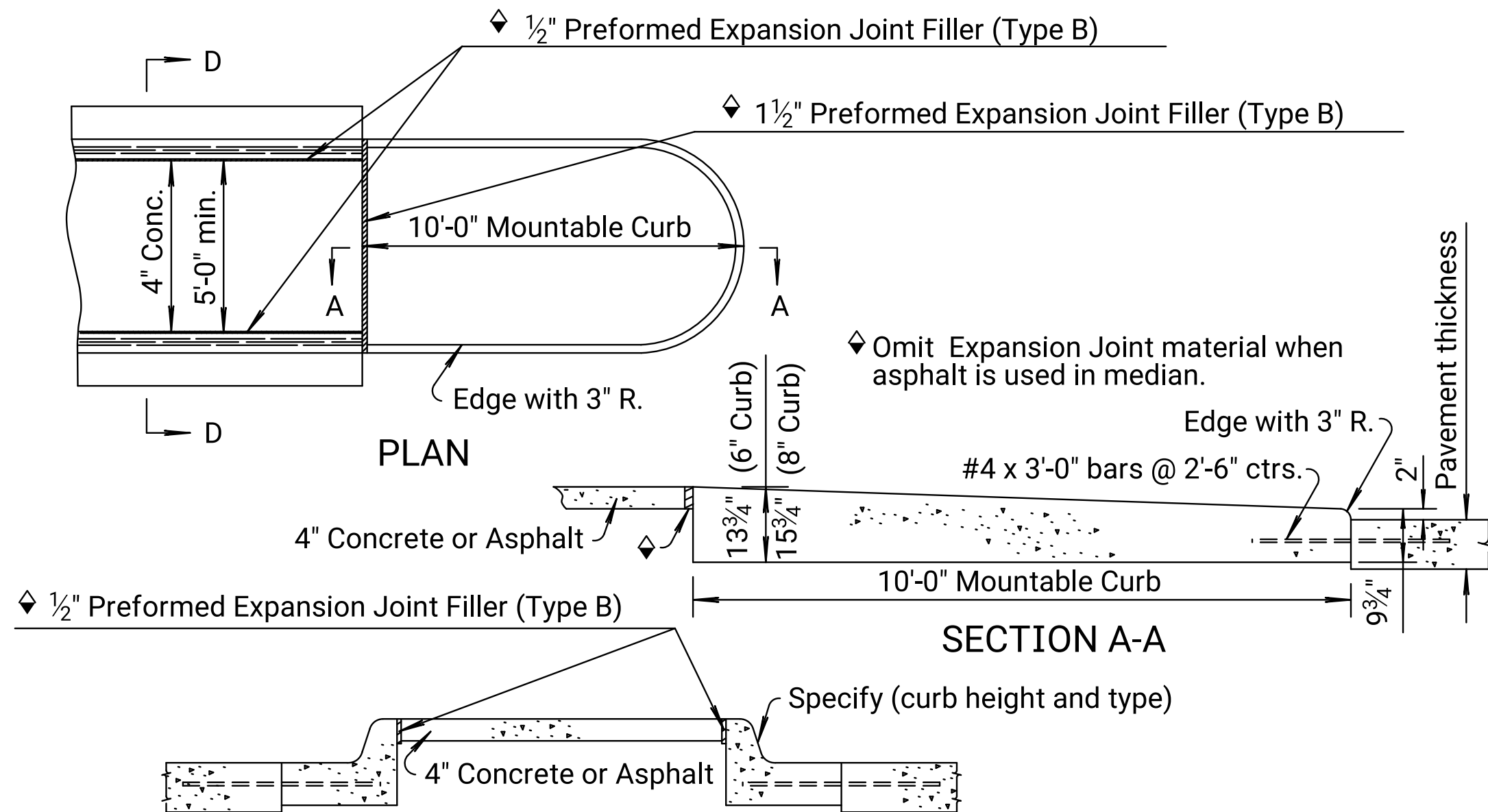
A 4' length of transition from normal gutter section to the tapered gutter section shall be used at the ends of each run of gutter except where the gutter abuts a curb, such as at the end of a bridge. Inlets shall be located so as not to fall within this transition section.

Where pressure relief joint is placed across the pavement, and gutter or curb and gutter is continued on for more than 10', use 4"x4" membrane sealant installed with bonding adhesive through gutter section, shaped to fit gutter or curb and gutter. See Std. Drawing RD712.

For expansion joint treatment where combined curb and gutter or gutter abuts a bridge wing on a U-type abutment see bridge drawings.

Longitudinal joints shall be sawed and sealed with joint sealant, see Standard Specifications.

ψ If constructed monolithically, the longitudinal joint is not required.



SECTION D-D

Note: Expansion joints shall be placed in concrete median as follows. In long runs expansion joints in the median shall match expansion joints in the curb and gutter with a maximum spacing of 125'. Plane of weakness in the median shall match plane of weakness in curb and gutter.

TYPICAL NOSE DETAILS FOR RAISED MEDIANS

20	2-23-17	Det., Conc. Gutter Thru Curb Ramp	T.T.R.	S.W.K.
19	1-29-13	Added Detail, Comb. C&G (Sp.)	S.W.K.	J.O.B.
18	8-13-12	Revised General Note	S.W.K.	J.O.B.
17	7-2-09	Rev. nose details, jt. sealant & retro.	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION				
CURB, GUTTER AND COMBINED CURB & GUTTER				
RD635				
FHWA APPROVAL	3-7-17	APP'D.	SCOTT W. KING	
DESIGNED	DETAILED	QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	

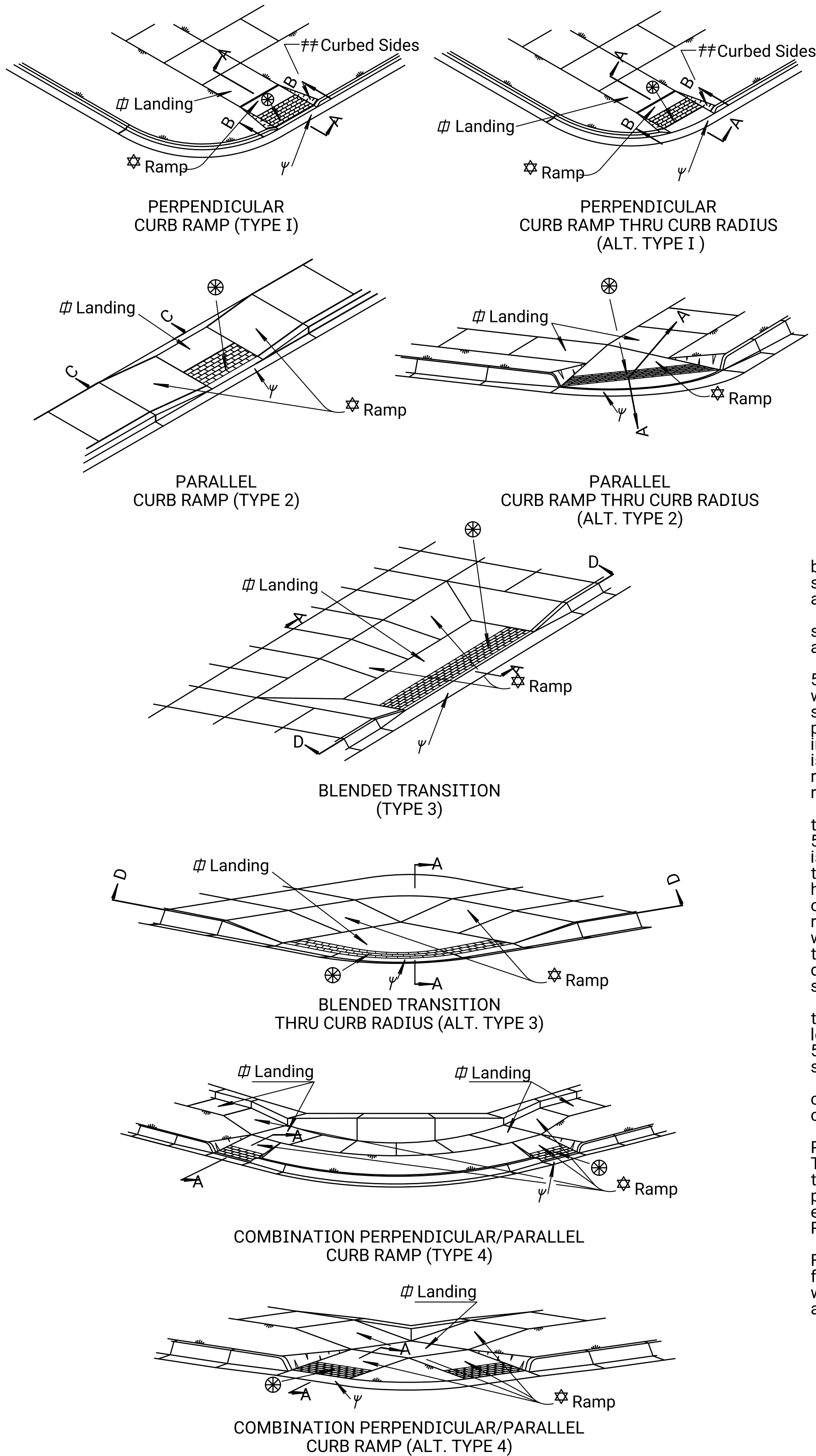
KDOT Graphics Certified 08-22-2019

Note: Additional Concrete Grade 3.0 (AE) needed to complete median nose shall be subsidiary to the bid item "Combined Curb & Gutter".

Note to Designer: Placing newly constructed curb ramps through curb radii should be avoided wherever practicable. The use of Parallel Curb Ramp Thru Curb Radius (Alt. Type 2) should be avoided wherever practicable. Review locations of fixed objects, placing fixed objects in conflict with sidewalk and ramps should be avoided. Fixed objects may include, but are not limited to, fire hydrants, utility cabinets, drainage structures, manholes, inlets, signal poles, and utility poles.

Plotted 26-MAR-2018 15:45

Drawn By : arockers
File : rd725.dgn



ϕ Expansion Joint (¾" Redwood board) placed at either back of curb line, at sidewalk back of curb line, or at sidewalk line. Alternate expansion joint material may be used as approved by the Engineer.

✕✕ Expansion joint (¾" Redwood board) located as shown. Alternate expansion joint material may be used as approved by the Engineer.

♦ The minimum width of newly constructed sidewalk is 5'-0". Where existing conditions prohibit the use of 5'-0" wide sidewalk, 4'-0" wide sidewalk may be used. Where sidewalk width is less than 5'-0" construct 5'-0" x 5'-0" passing spaces located at 200' intervals (max) as shown in the Passing Space Detail. In general, where new sidewalk is constructed parallel or adjacent to a roadway the sidewalk running slopes will match the grade of the adjacent roadway.

✕ New construction ramp running slopes are 5% (min) to 8.3% (max). Ramp slopes for blended transitions are 5% or flatter. The maximum allowable ramp cross slope is 2% or flatter. Match the ramp width to the width of the approach sidewalk. Curb ramp lengths will vary with curb height. Curb ramp lengths are 5'-0" (min) to 15'-0" (max). All other ramp lengths are 5'-0" (min) to 30'-0" (max). Where roadway grades are relatively flat and curb ramp lengths will exceed 15'-0", ramps may be constructed in succession to tie into existing sidewalk. Maintain ramp slopes and dimensions as previously stated and install a landing between successive ramp runs.

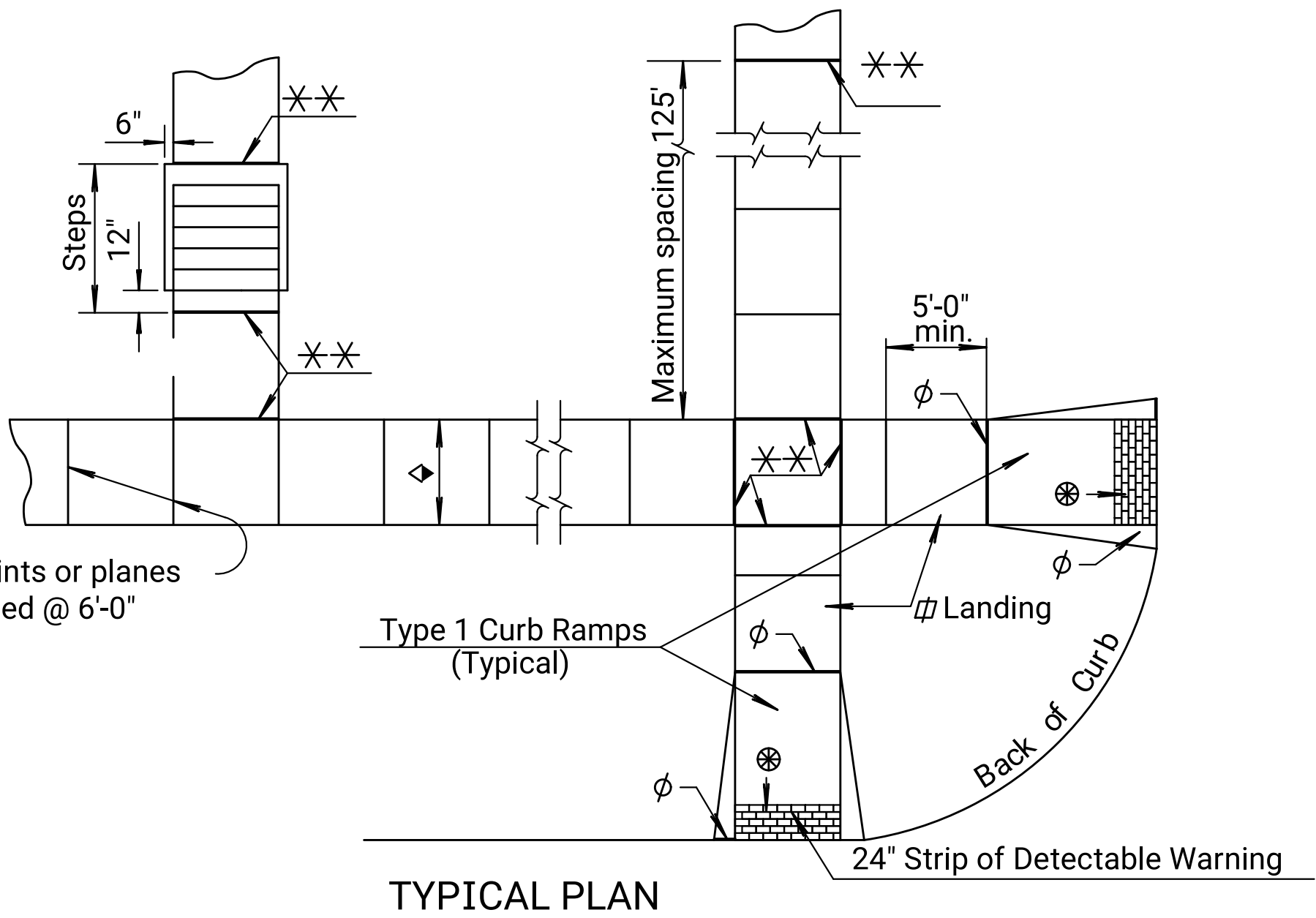
♣ Use a landing slope of 2% or flatter. Landings are the same width as ramps and adjacent sidewalk with a length measured in the direction of the street crossing of 5'-0" (min). Landings are not required where the ramp running slope is 5% or flatter.

γ Use a counter slope of 5% or flatter at the base of curb ramps. Refer to Standard Drawing RD725A for additional curb and gutter details.

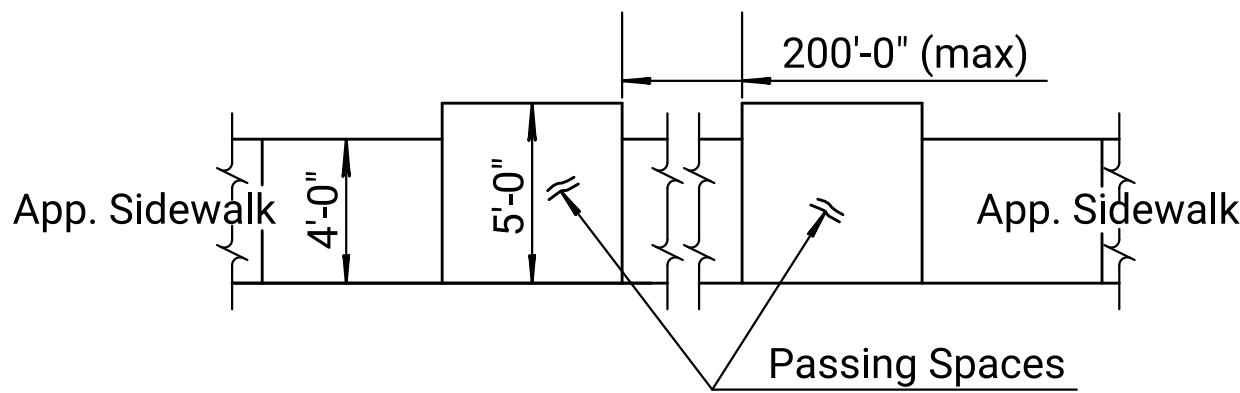
⊗ Detectable warning installation is typical and required on Perpendicular Ramps (Type 1), Parallel Ramps (Type 2), Blended Transitions (Type 3), median ramp crossings with widths greater than or equal to 6'-0", and other locations as shown in the plans. Install detectable warnings parallel to pedestrian travel except where otherwise shown in the plans. See Standard Drawing RD725A for additional details.

Use flared sides in place of curbed sides as shown in Flared Side Alt. when not located adjacent to landscaping, street furniture, chains, fencing, or railing. Curbed sides are not permitted within the pedestrian access route. See PROWAG for pedestrian access route definition.

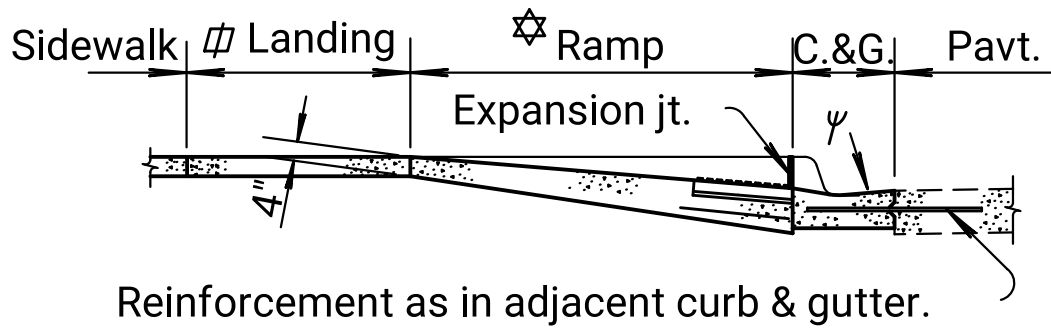
Construction joints or planes of weakness spaced @ 6'-0" ctrs. or less.



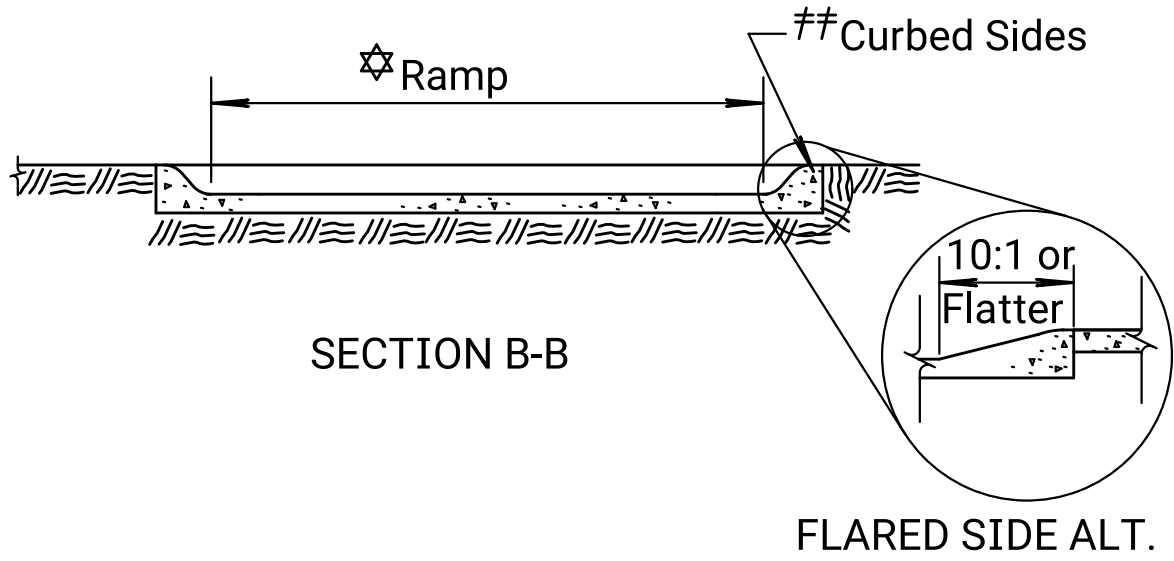
TYPICAL PLAN



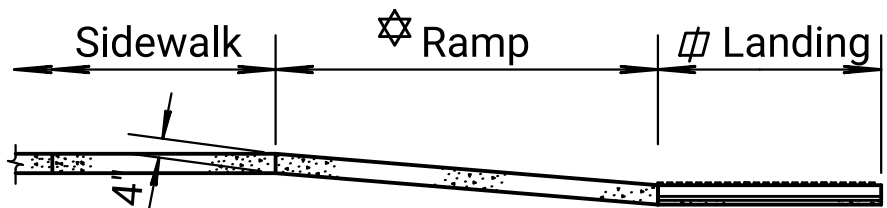
PASSING SPACE
DETAIL



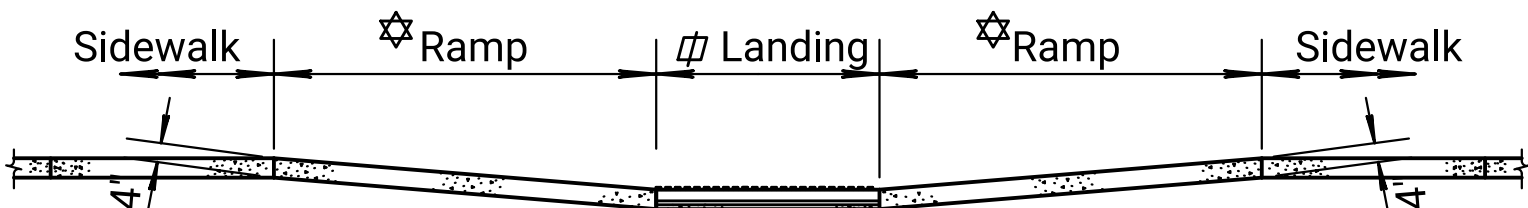
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

Construct sidewalk and ramps in accordance with the current Public Rights of Way Accessibility Guidelines (PROWAG).

The details depicted here may not be appropriate for all locations. Construct to meet this criteria on all roadway alteration projects as defined by the Department of Justice/ Department of Transportation Joint Technical Assistance on ADA Title II Requirements. For an existing sidewalk facility where the sidewalk will be replaced, replace sidewalk in accordance with PROWAG.

Details shown on this sheet apply to newly constructed and existing sidewalk and ramps where roadway alteration projects take place. See KDOT's Standard Specifications for additional information.

Provide ramps at all corners of street intersections where there is an existing or proposed sidewalk and curb. Provide curb ramps at mid-block walk locations for hospitals, medical centers, and athletic stadiums.

Locate ramps as shown on the plans or as directed by the Engineer.

Do not place drainage structures in line with ramps except where existing drainage structures are being utilized in the new construction. Ramp locations should take precedence over the location of drainage structures. Where existing manhole access lids are located on ramps within the area of the detectable warnings and the manhole lid cannot be removed or relocated; install a lid with a detectable warning surface in accordance with PROWAG. Limit drainage across ramps where practicable.

Construct ramps with uniform grade free of sags and short grade changes.

Place ¾" Redwood expansion joints flush with the surface at a maximum spacing of 125'. Place ¾" Redwood expansion joints at sidewalk junctions, see plan details. Where sidewalk abuts a curb place ¾" Redwood board expansion joint flush with the surface.

Place ½" premolded (Type B or C) joint filler where sidewalk is parallel and adjacent to a rigid surface.

▲ Place sidewalk shown to be constructed in back of an entrance 6" thick with welded wire mesh reinforcement. Gauge and spacing of wires are the same as entrance pavement (See Reinforcement Diagram). The bid item will be "Sidewalk Constructiton" either with or without air entrainment. Macro fiber reinforcement may be substituted for welded wire. See KDOT's Standard Specifications for additional information. Slope sidewalk toward the street at 2% or flatter. Slope or depress sidewalk where necessary to fit alleys and entrances, see plans for details.

Contractor may opt to use Concrete Grade 3.0 (AE) throughout for construction of steps, but all work and materials are paid for under the bid item "Grade 3.0 Conc. (Misc.)".

All work and materials needed to construct sidewalk will be paid for under the bid item "Sidewalk Construction".

All work and materials needed to construct ramps will be paid for under the bid item "Sidewalk Ramps".

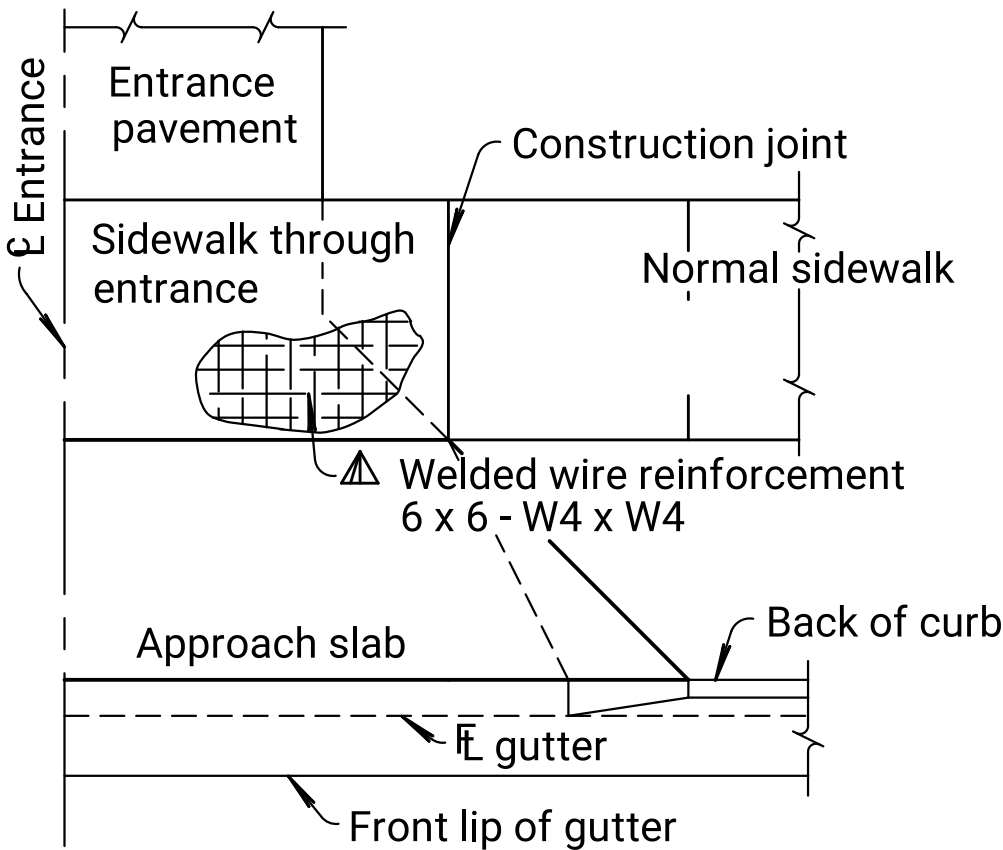
See Standard Drawing RD725A for additional information.

Ramps shall be present at each end of a crosswalk.

For handrails with steps see Standard Drawing RD725B for details.

For handrails with ramps see Standard Drawing RD725C for details.

For alley and entrance pavement see Standard Drawing RD726 for details.



REINFORCEMENT DIAGRAM
SIDEWALK THROUGH ENTRANCE

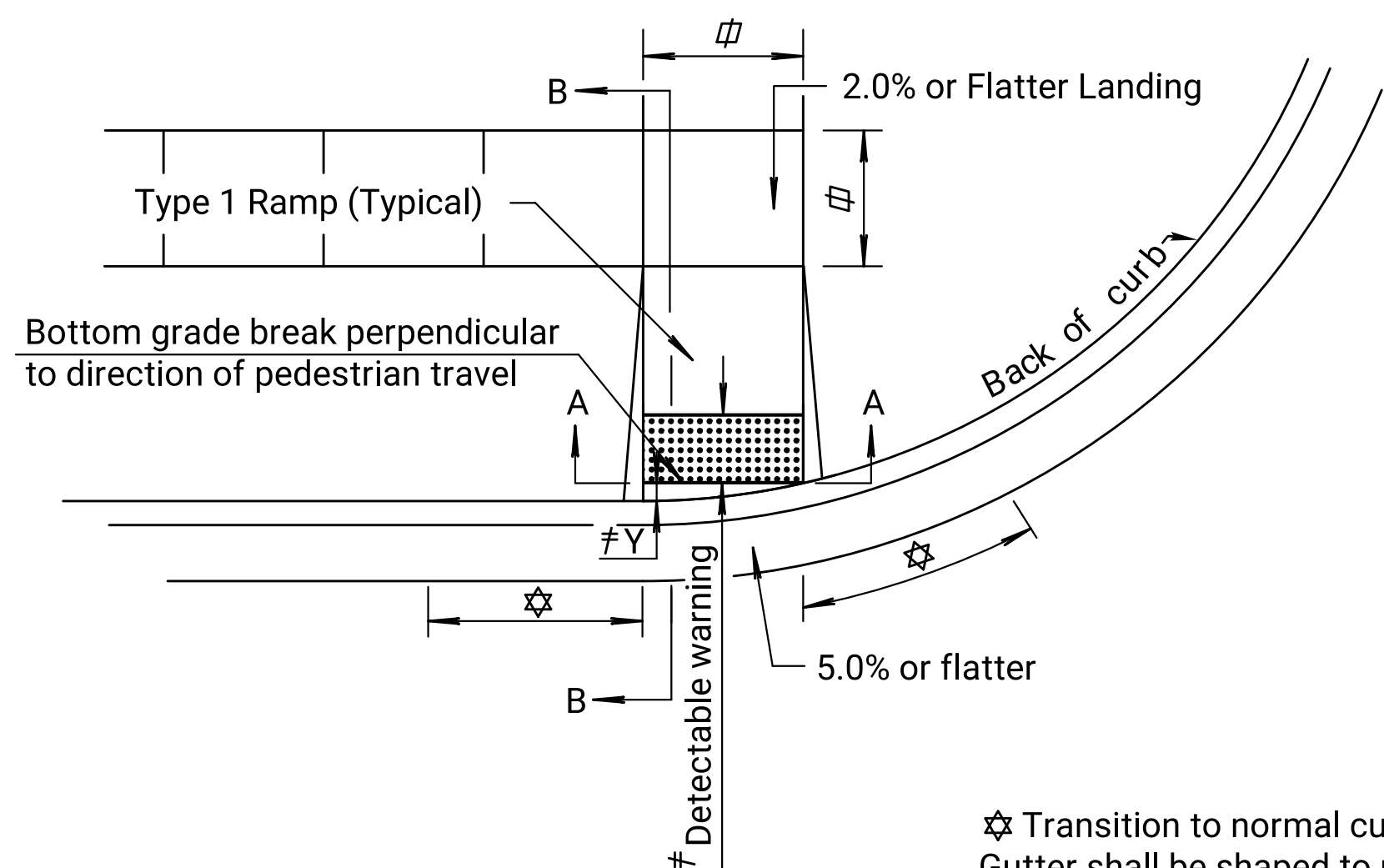
13	10-31-17	Joint Filler Type C Added	A.L.R.	S.W.K.
12	2-23-17	Rev. Ramp Typ., Gen. Note, & Details	T.T.R.	S.W.K.
11	10-17-11	Revised General Note	S.W.K.	J.O.B.
10	5-23-11	Revised notes	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION			
SIDEWALK, RAMPS, & STEPS			
RD 725			
FHWA APPROVAL		APP'D. SCOTT W. KING	
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK. 725	TRACE CK.

KDOT Graphics Certified 03-26-2018

KDOT Graphics Certified

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	14	69

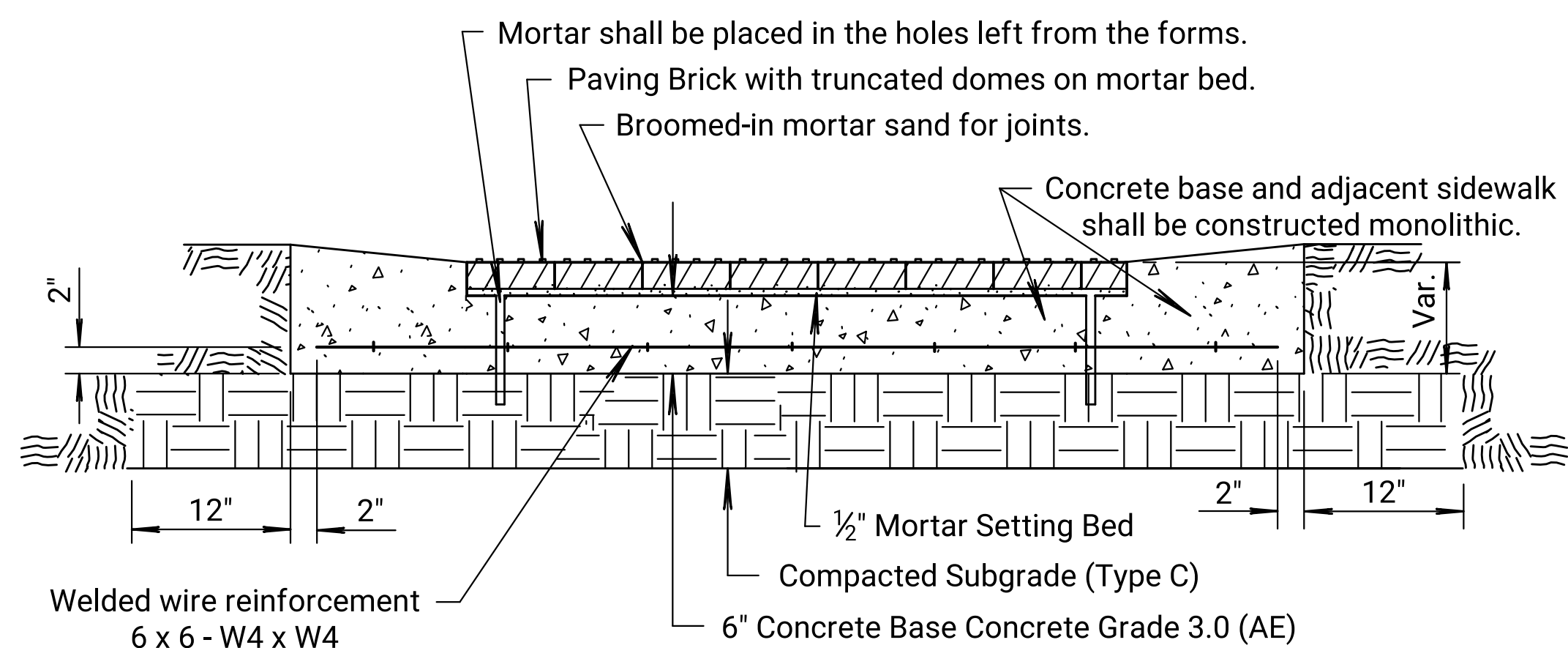


TYPICAL PLAN

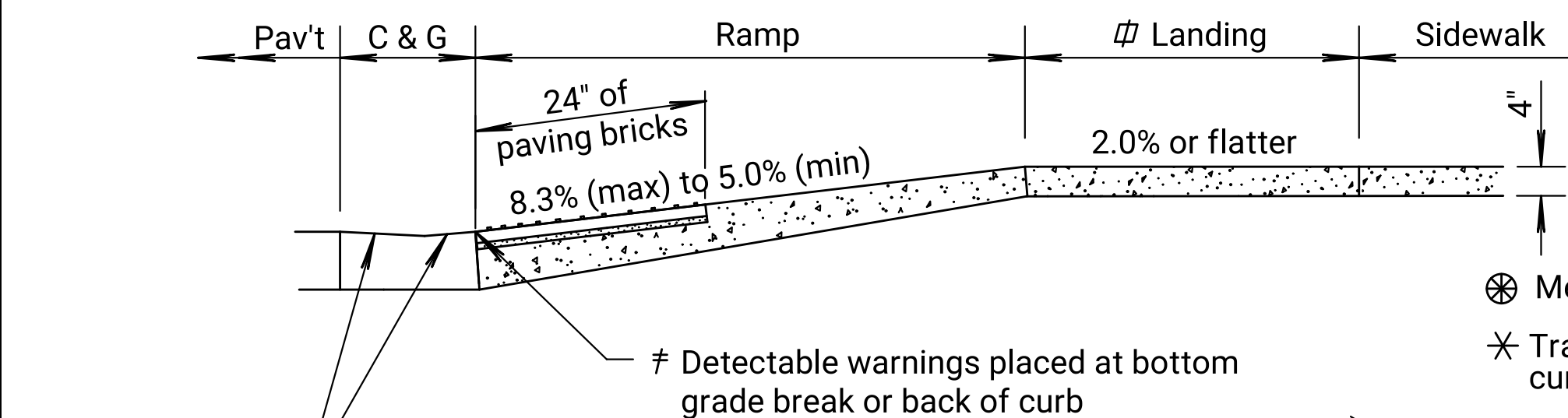
☆ Transition to normal curb and gutter section.
Gutter shall be shaped to provide positive drainage.

⚡ See Standard Drawing No. RD725 for additional details.

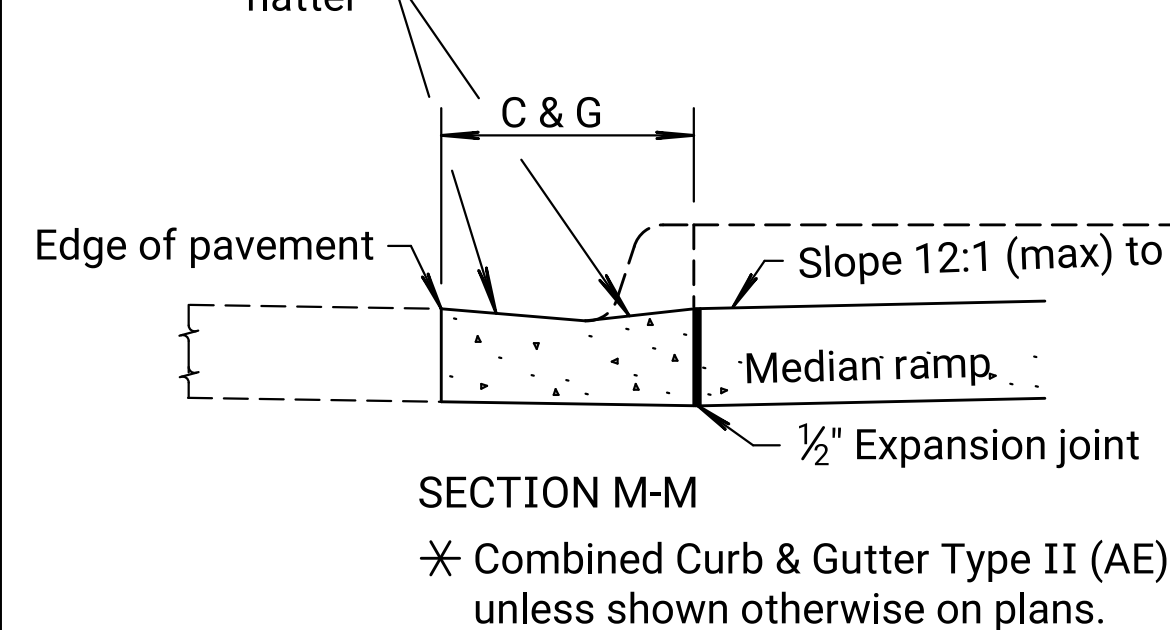
7 When the dimension "Y" from the back of curb to the bottom ramp grade break is greater than 5'-0" or the ramp is not located through a curb radius, place detectable warning at the back of curb. Otherwise, place detectable warning at the bottom grade break as shown.



TYPICAL SECTION OF PAVER BRICK
SECTION A-A

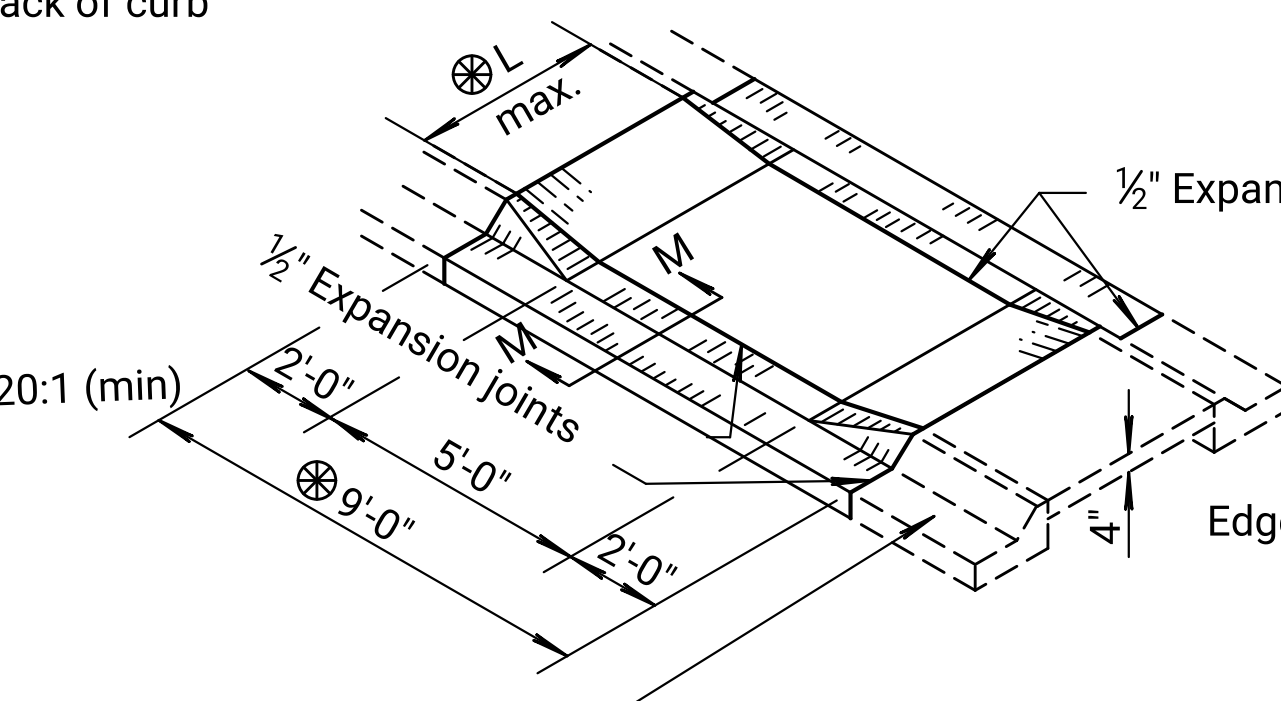


SECTION B-B



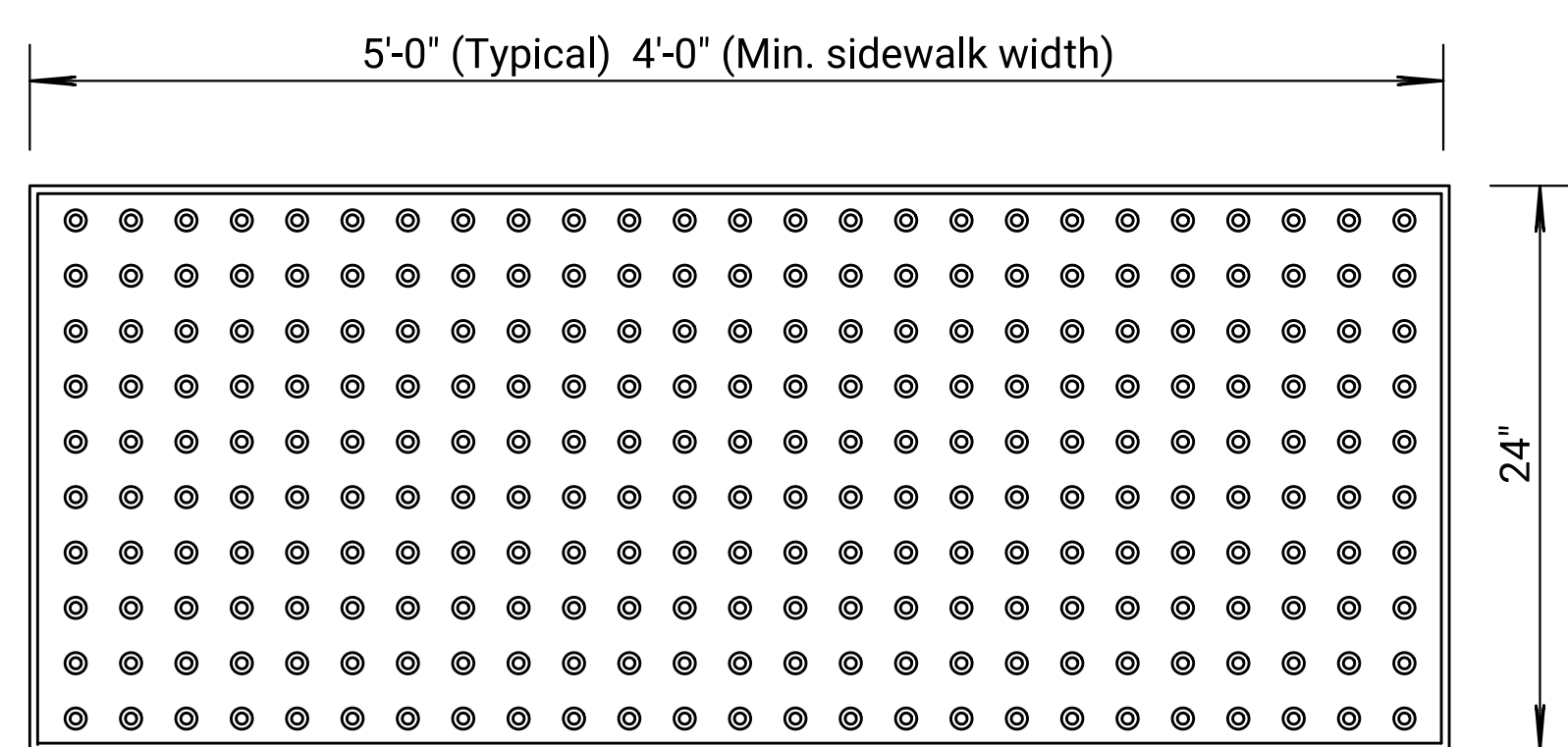
SECTION M-M

✕ Combined Curb & Gutter Type II (AE)
unless shown otherwise on plans.

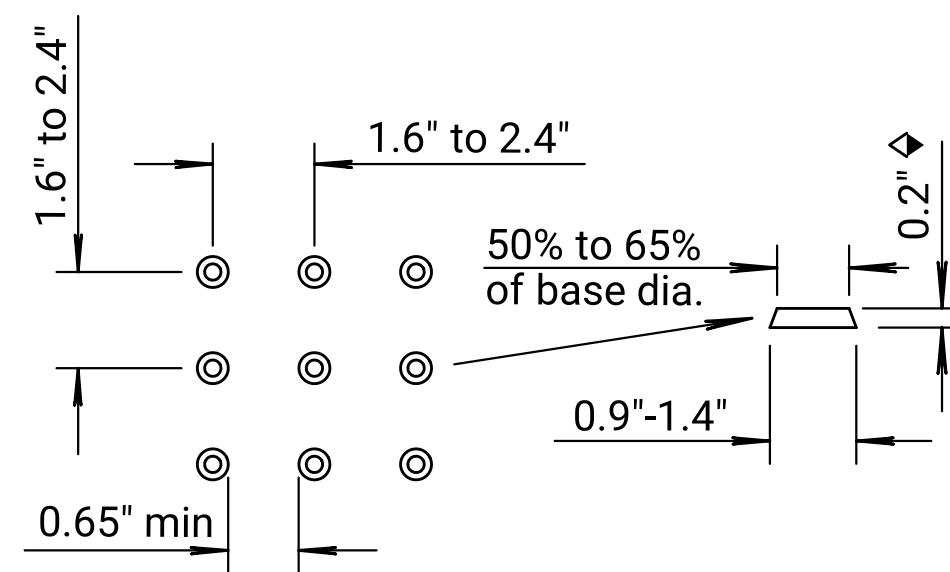


NARROW MEDIAN RAMP CROSSING
(L < 6'-0")

Note: A Median Ramp Crossing shall be constructed at Crosswalk locations. Do not install detectable warnings on narrow median ramp crossings.

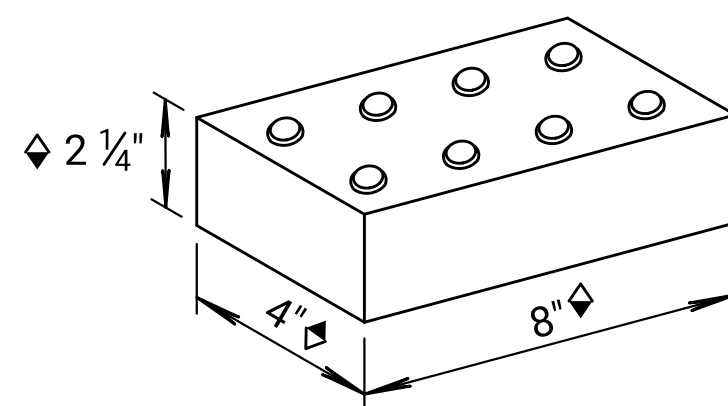


Ψ COMPOSITE PANEL with TRUNCATED DOMES

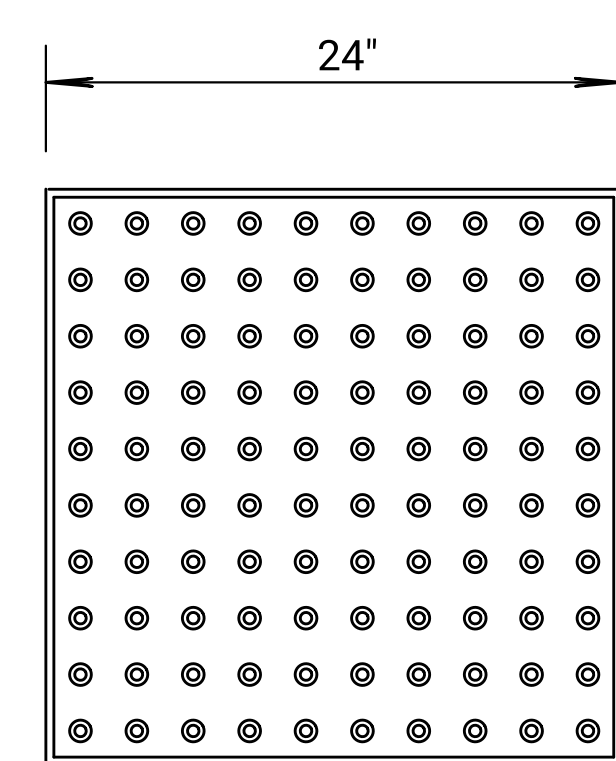


TRUNCATED DOME DIMENSIONS
for SQUARE PATTERN
(Parallel Alignment)

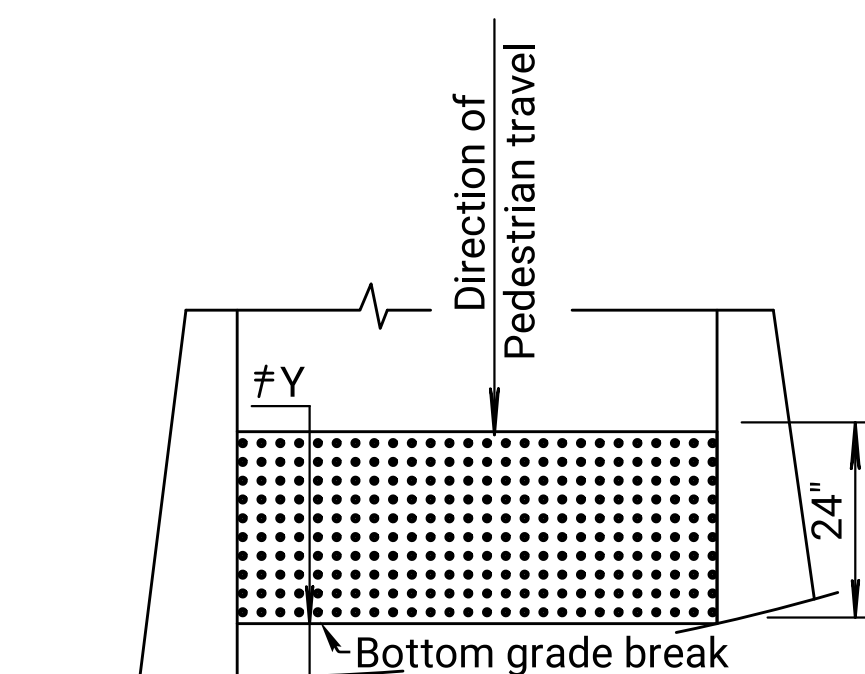
◆ These dimensions are nominal.



Ψ PAVER BRICK WITH
TRUNCATED DOME SURFACE



7 PRESTRESSED RAMP PANEL
 with
 TRUNCATED DOME SURFACE



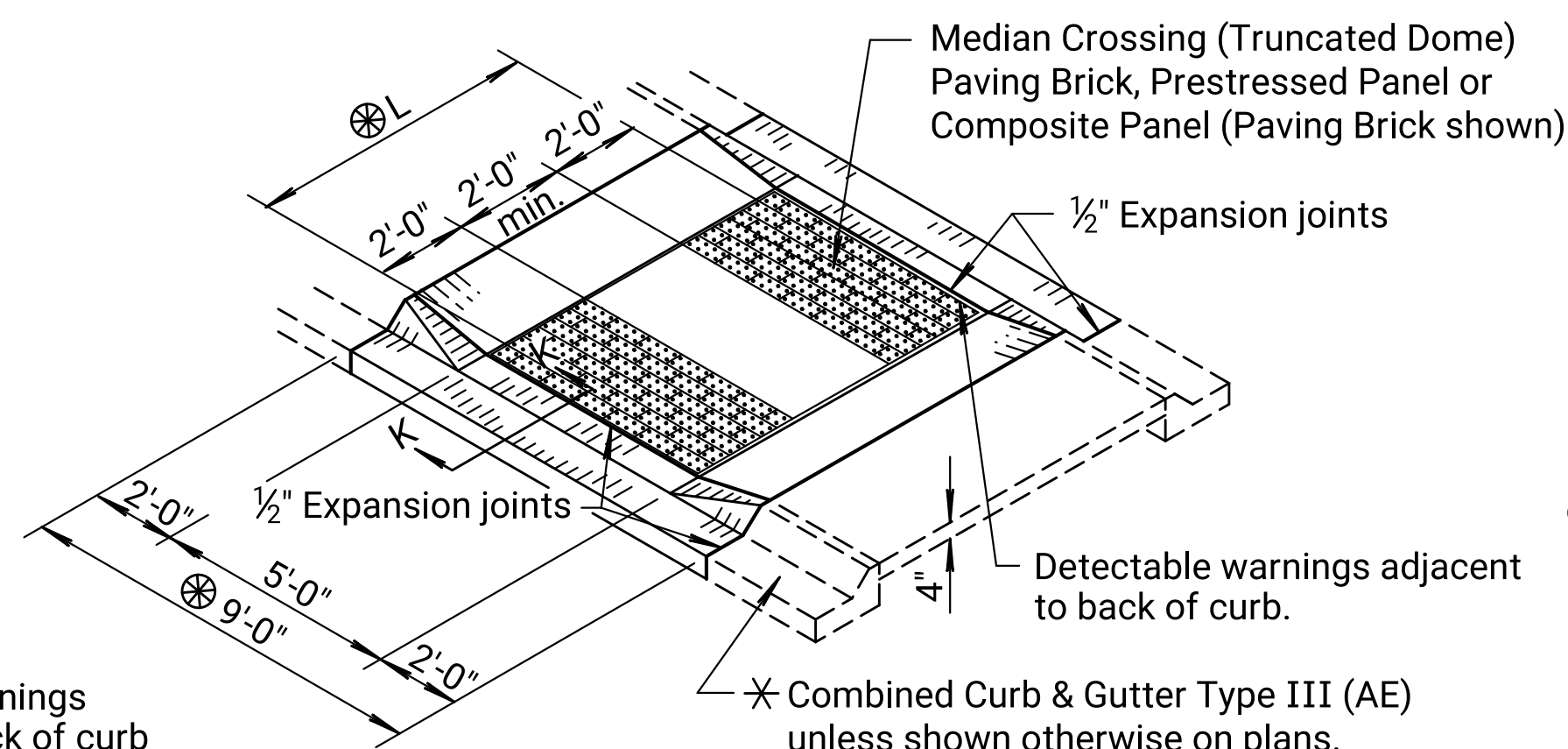
⊗ CURB RADIUS DETAILS

Cut Prestressed Ramp Panels to fit.

■ Installation shown for paving brick is running bond, use of other patterns is allowed with Engineer approval. Rotation 90° of Running Bond pattern is allowed to reduce space between bricks on curb radius installation, keep this space to a minimum. Place truncated domes on bricks in parallel alignment to pedestrian travel as shown.

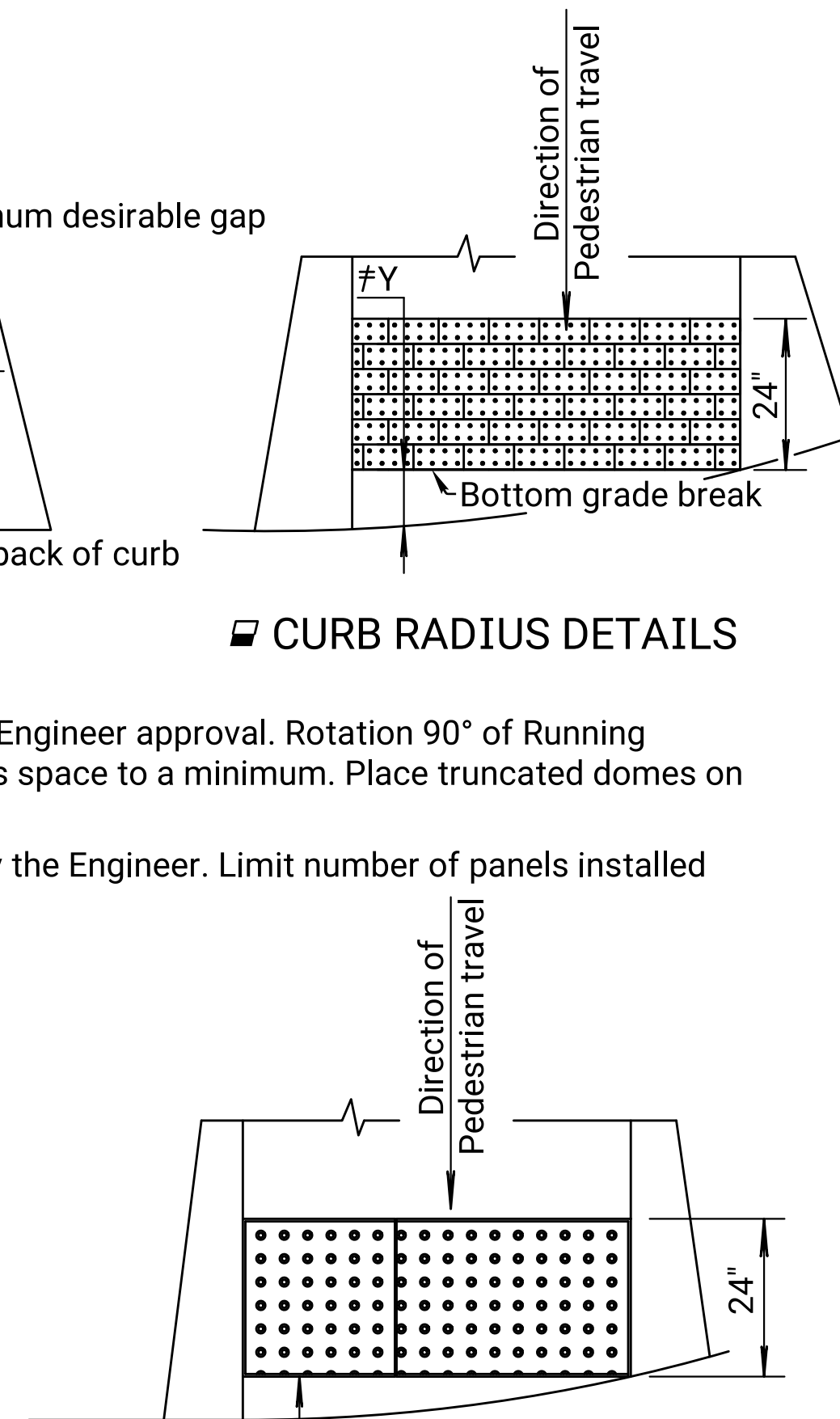
⊗ Curb radius or greater than 5' ramp width will require more than one panel as approved by the Engineer. Limit number of panels installed at each site. Layouts shown are for example and may vary in the field.

‡ Acceptable with no mixing of types within an installation.



WIDE MEDIAN RAMP CROSSING
($L \geq 6'-0''$)

Note: A Median Ramp Crossing shall be constructed at Crosswalk locations. Wider median islands will result in a 2' minimum gap between the detectable warning areas.



⊗ CURB RADIUS DETAILS (COMPOSITE)

Where truncated domes are placed through a curb radius, cut radius from 3'-0" long composite panel.

5	2-23-17	Rev. Gen. Note & Panel Det.	T.T.R.	S.W.K.
4	2-10-10	Added Composite Panel	S.W.K.	J.O.B.
3	8-15-05	Added Prestressed Ramp Panel alt.	S.W.K.	J.O.B.
2	2-24-05	Class to Grade conc., wire reinf.	S.W.K.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

AUXILIARY DETAILS FOR SIDEWALK & STEPS

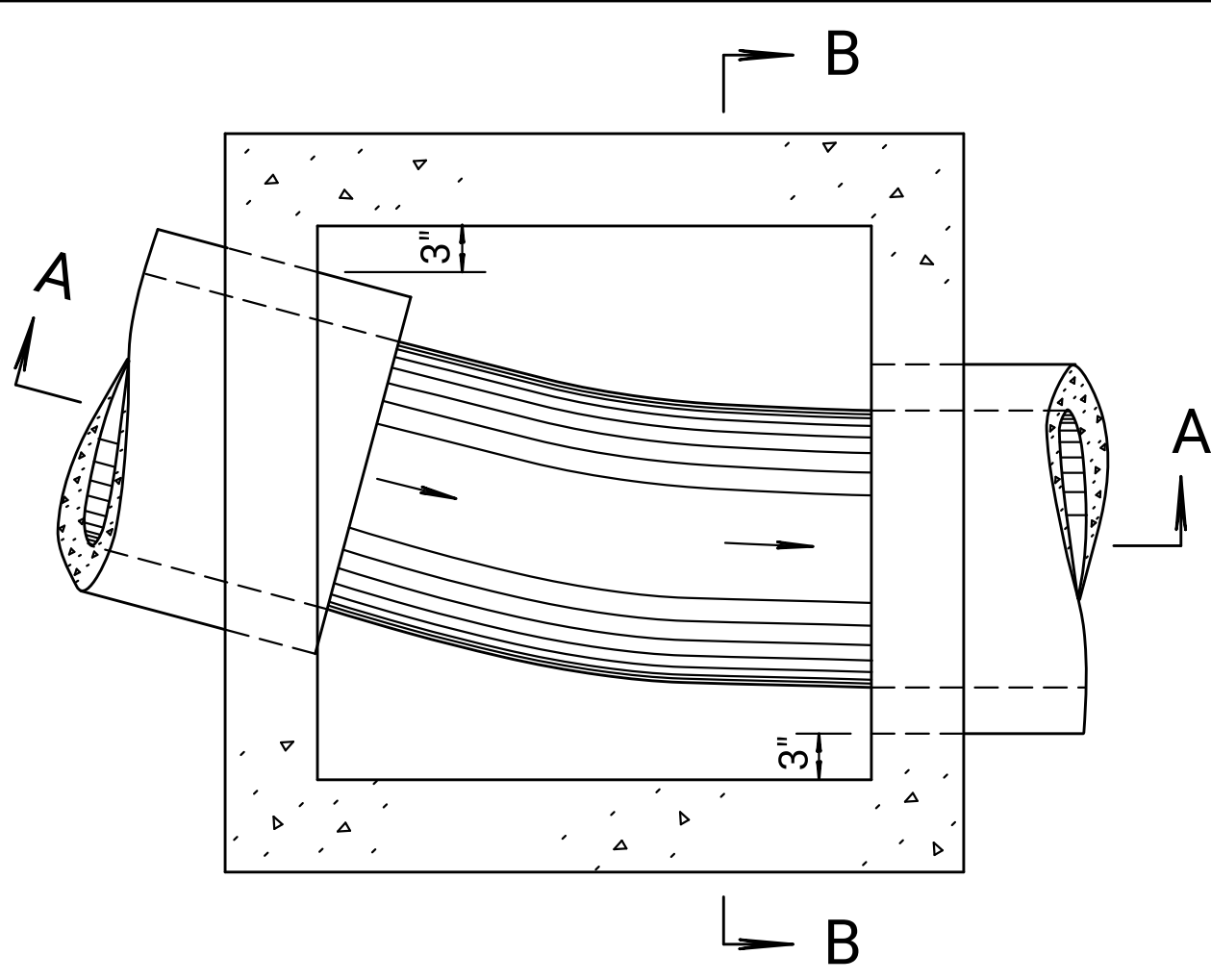
RD725A

FHWA APPROVAL		3-7-17	APP'D.	SCOTT W. KING
DESIGNED	DETAILED	QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.	

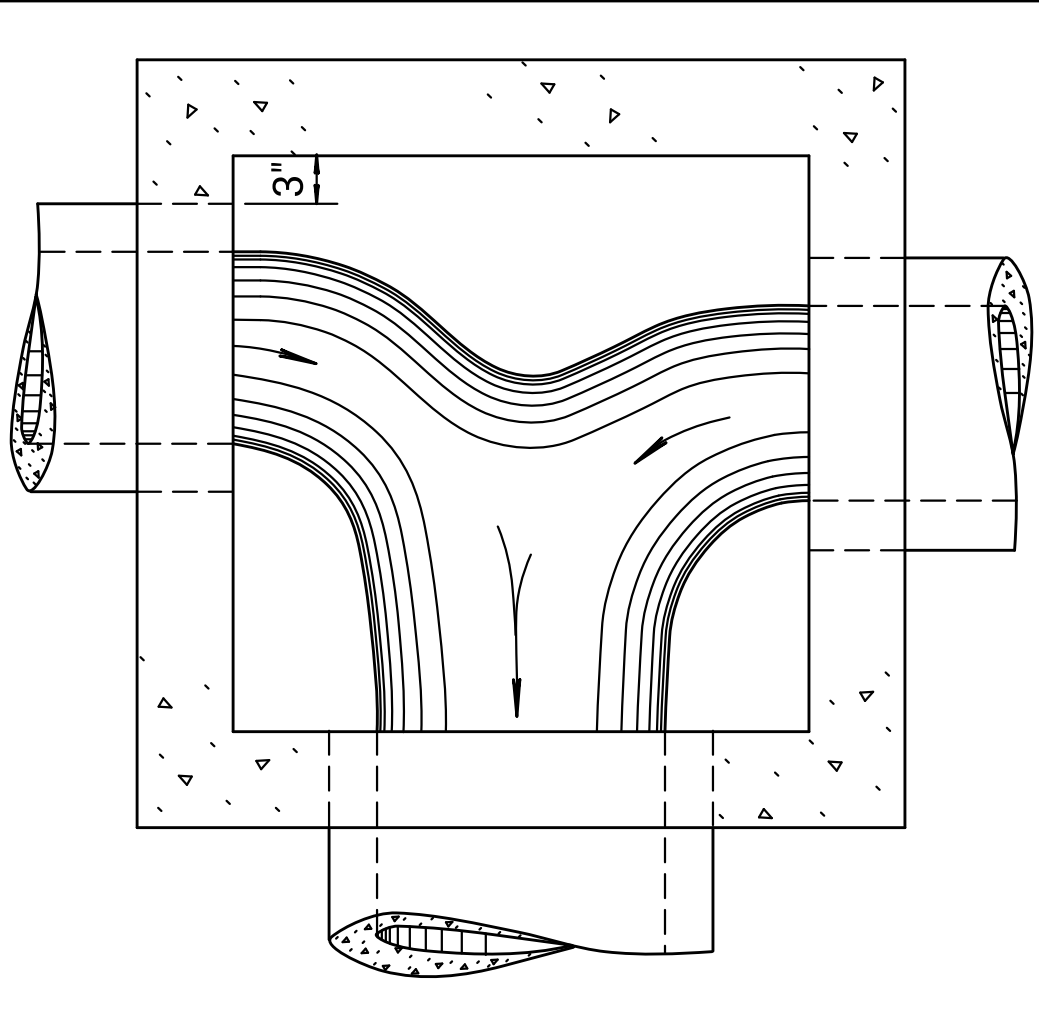
KDOT Graphics Certified 05-31-2019

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	15	69

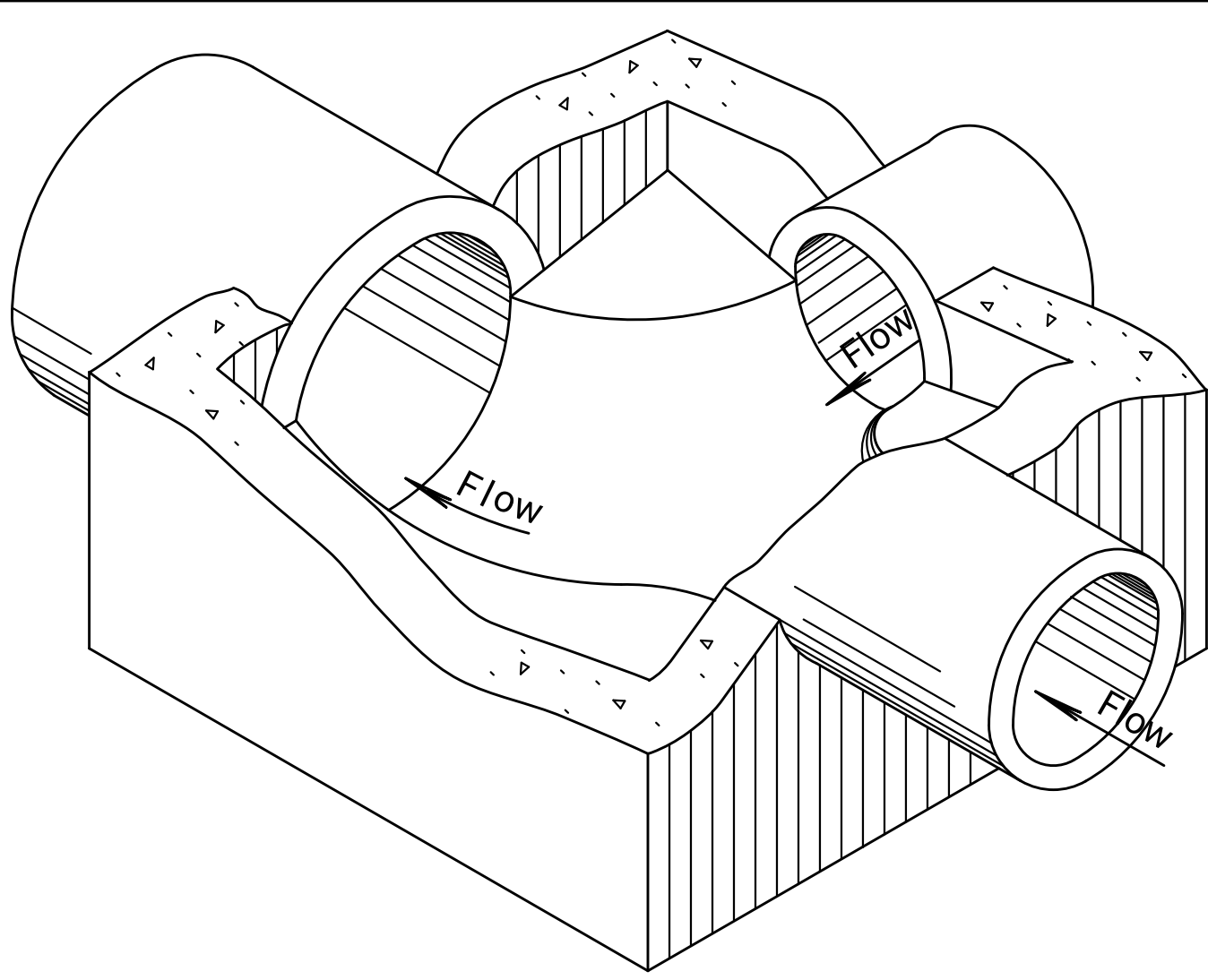
Note: Use Concrete Grade 3.0 throughout. All exposed edges shall be finished with an edging tool.
At the contractors option Concrete Grade 3.0 (AE) or mix used in concrete pavement may be used throughout.
In general, pipes will enter and leave manhole at various positions. Where possible bend bars around pipes.
Floor of manhole shall be shaped as shown in various "EXAMPLES" with unreinforced Concrete Grade 3.0.
Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert.
Top reinforcing bars shall be adjusted accordingly.
All castings shall be gray iron and shall comply with the KDOT Standard Specifications.
No deductions in concrete quantities shall be made for pipe openings or additions to concrete quantities shall be made for shaping floor of manholes.
The top of the manhole shall be sloped slightly to approximately fit the ground line or other condition as directed by the Engineer.
Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.
The Contractor has the option of using precast manholes, as approved by the Engineer.
Steps shall be installed in all manholes when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the requirements of the KDOT Standard Specification.



PLAN - FLOOR (Example I)

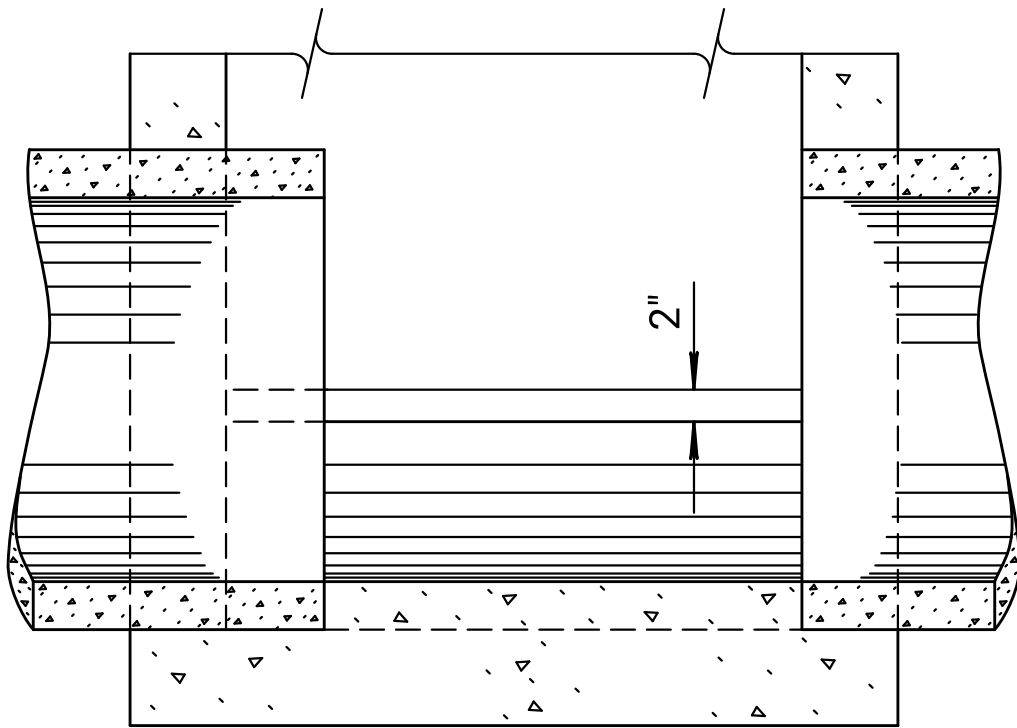


PLAN - FLOOR (Example III)

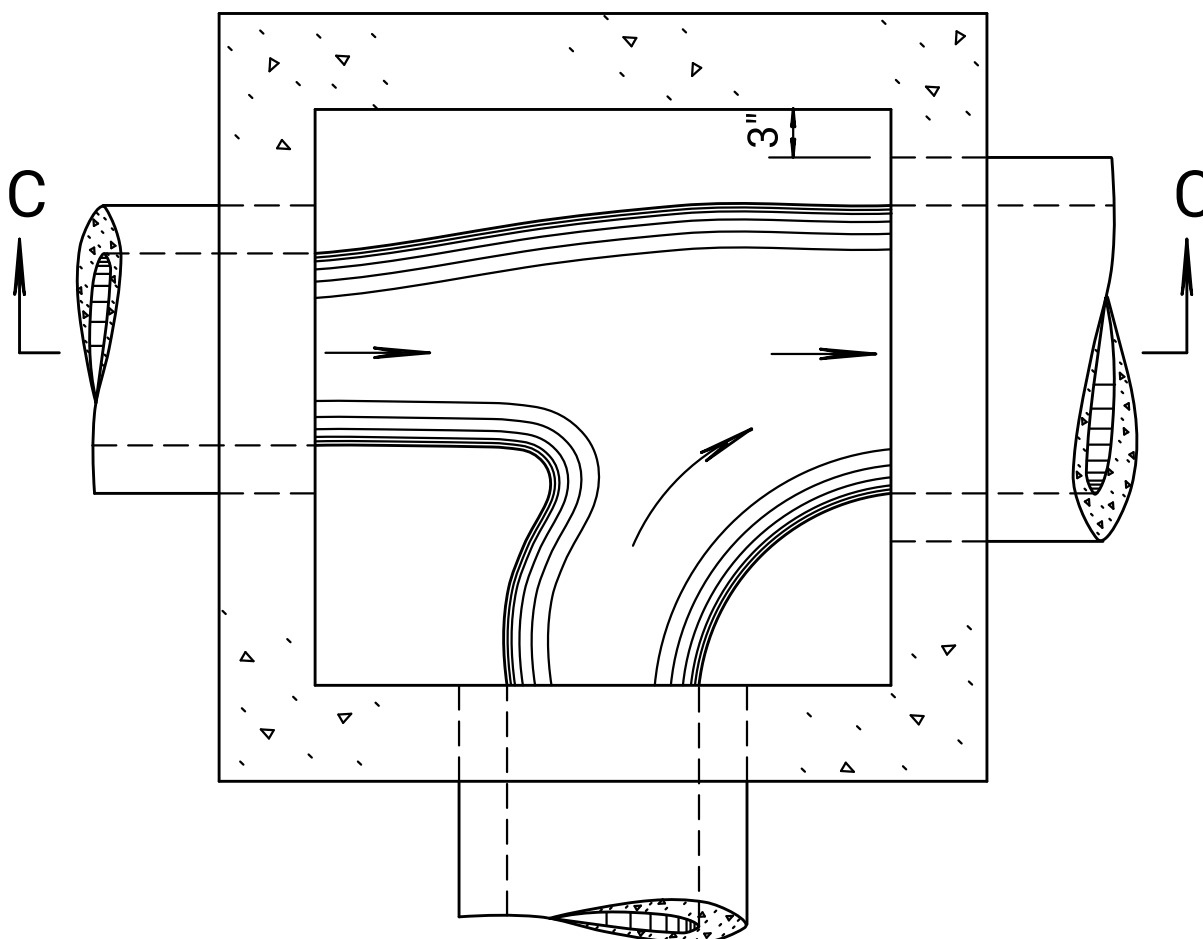


Floor of manhole shall be shaped as shown in the examples to increase hydraulic efficiency.

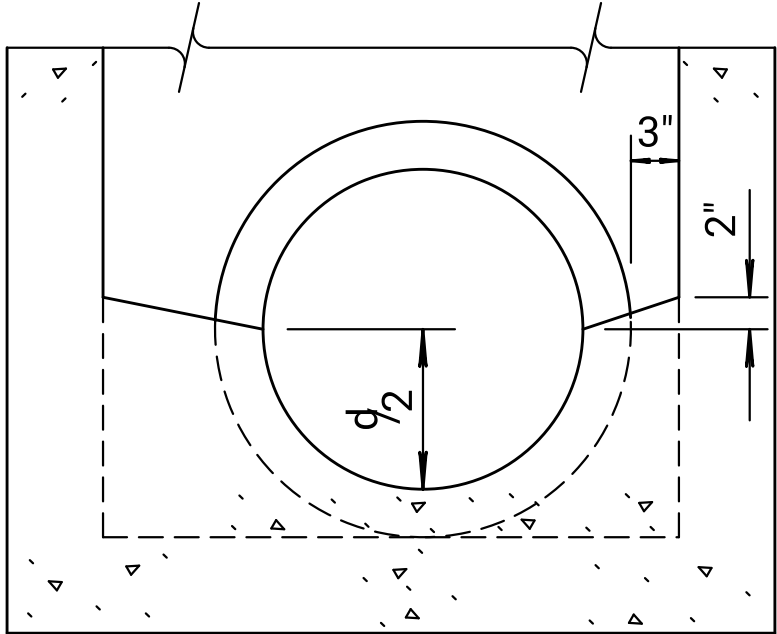
ISOMETRIC VIEW (Example IV)



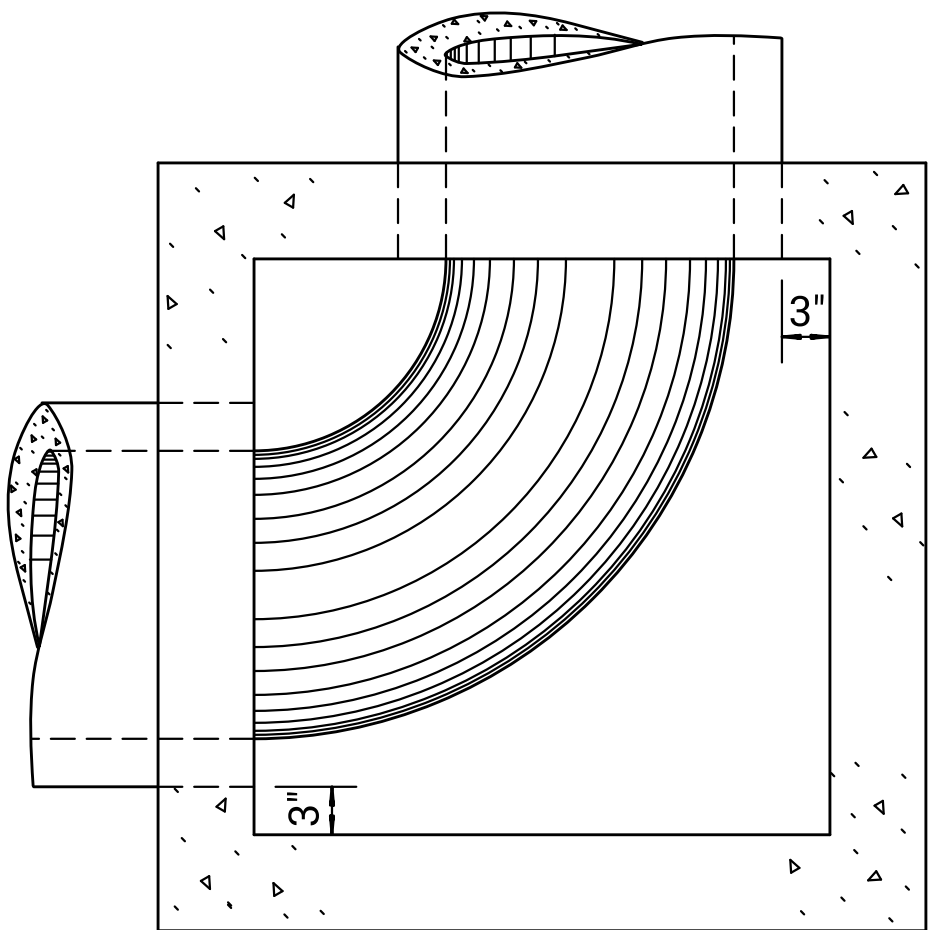
SECTION A-A (Example I)



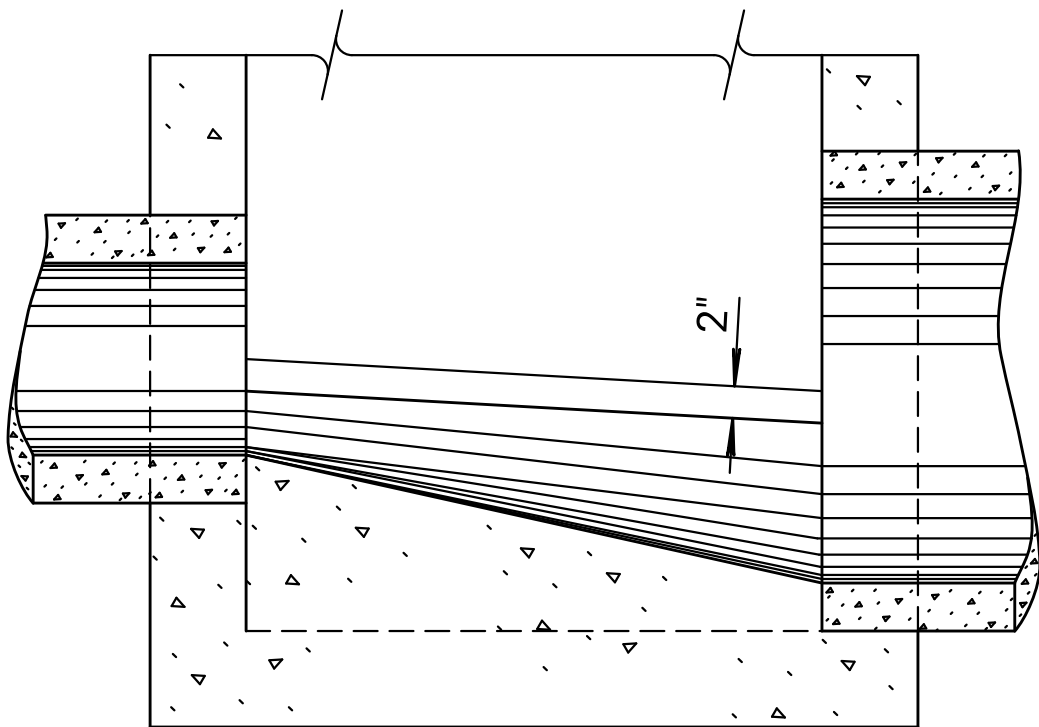
PLAN - FLOOR (Example IV)



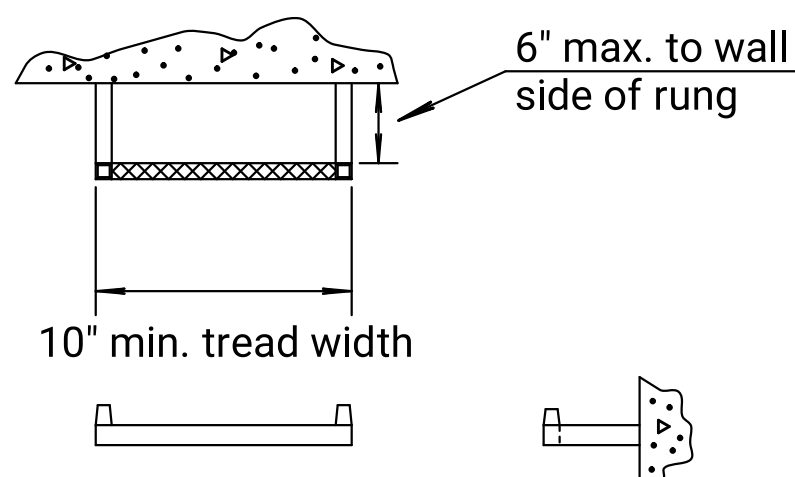
SECTION B-B (Example I)



PLAN - FLOOR (Example II)

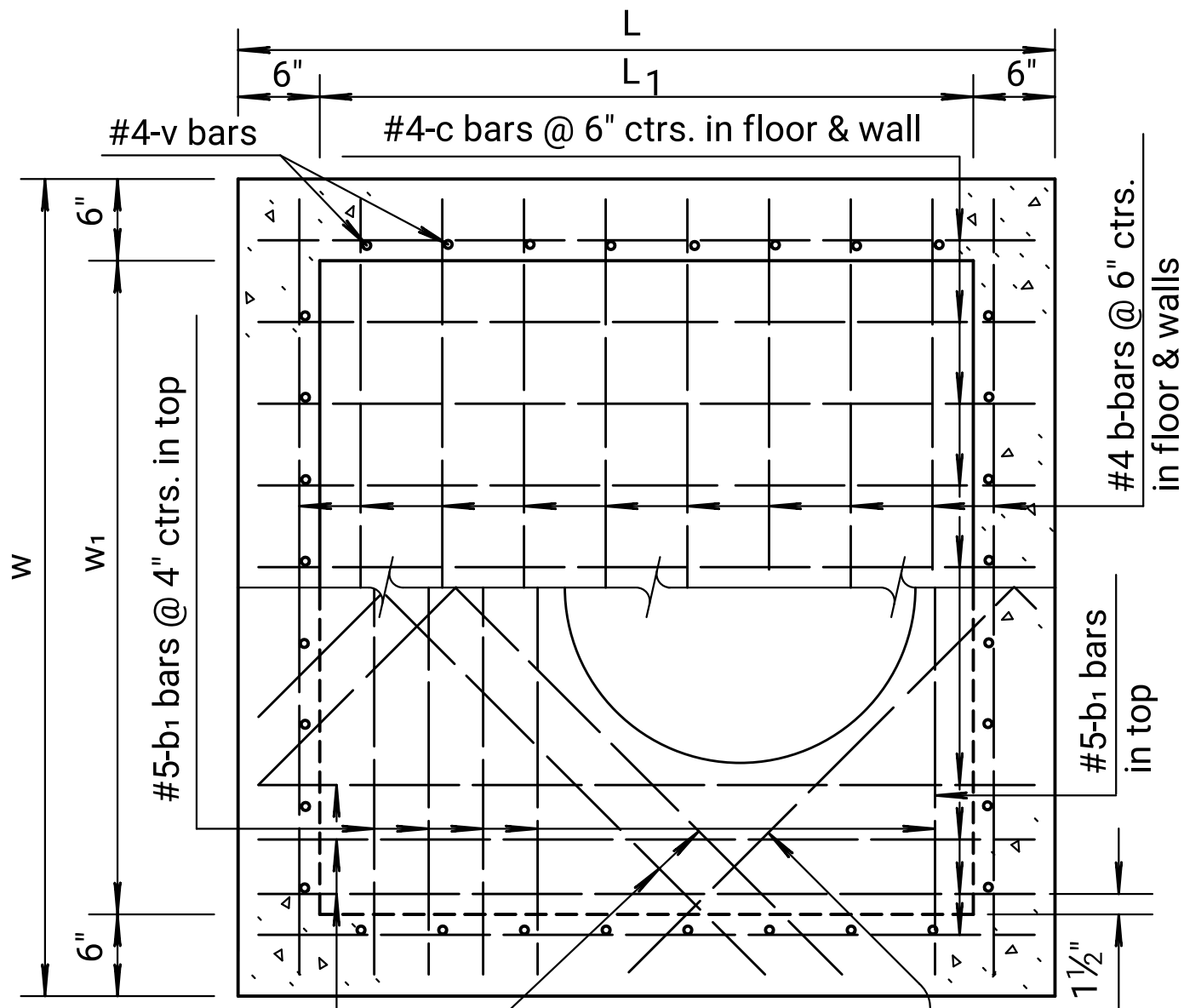


SECTION C-C (Example IV)

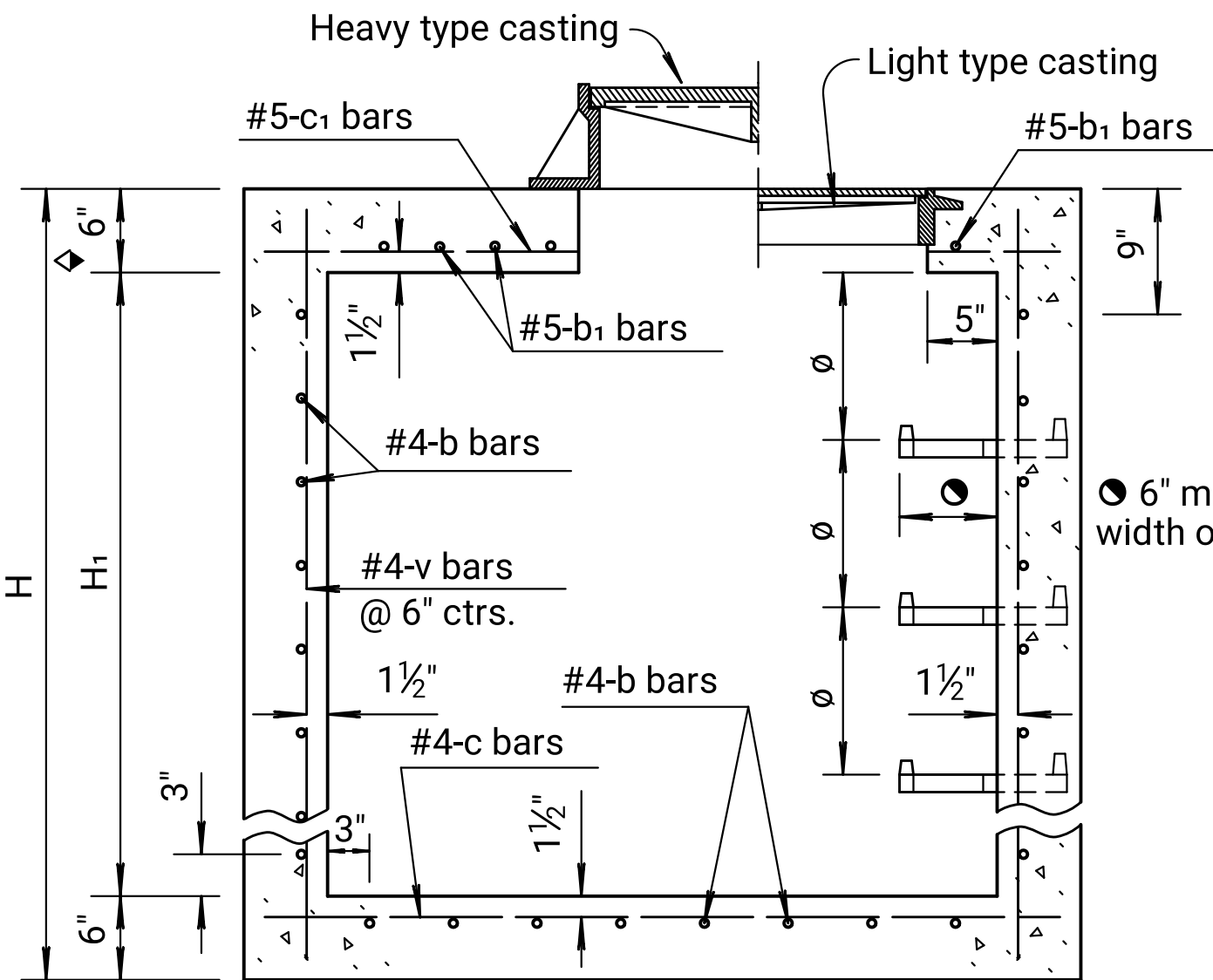


STEP DETAILS

Ø Steps shall be uniformly spaced. Spacing shall be 12" minimum and 16½" maximum.

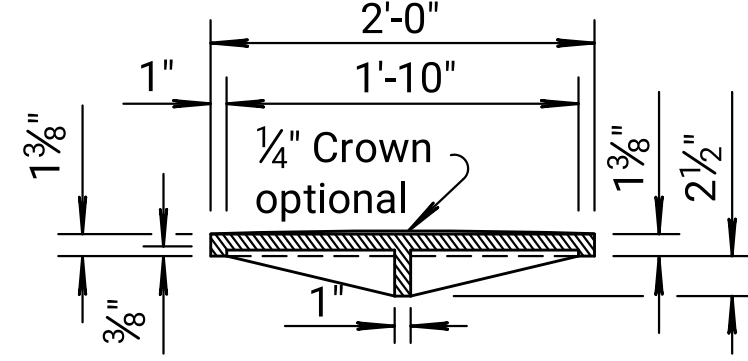


PLAN (Showing top & floor reinf.)

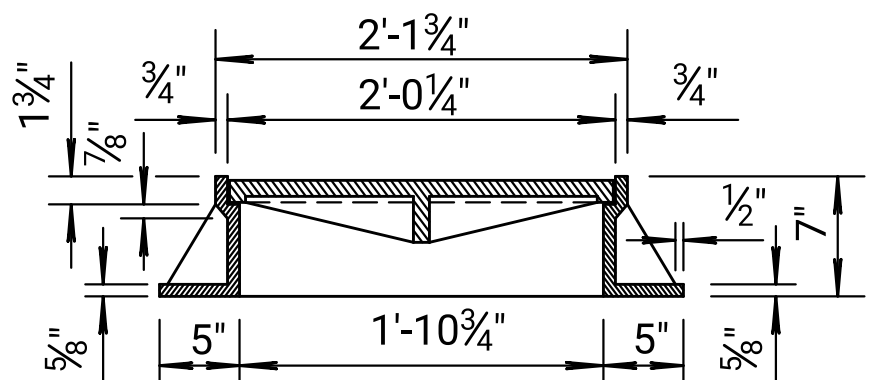


◆ Where dimension "L" or "W" is greater than 6'-0" use 8" slab thickness.

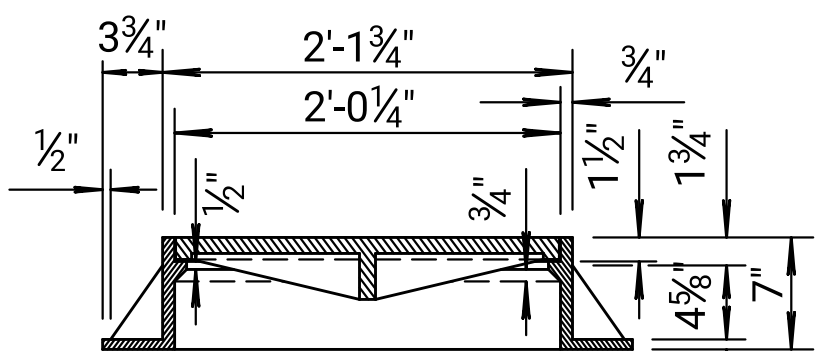
SECTION (Exclusive of floor shaping)



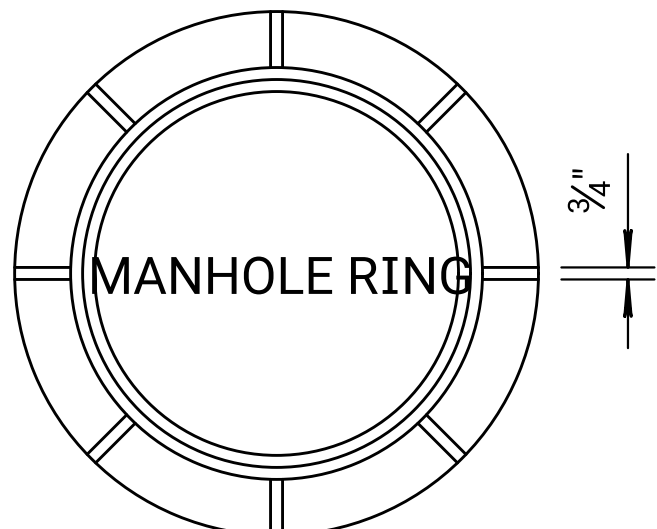
MANHOLE COVER TYPE A & B
(Weight=134 lbs.; without ¼" Crown= 125 lbs.)



TYPE A



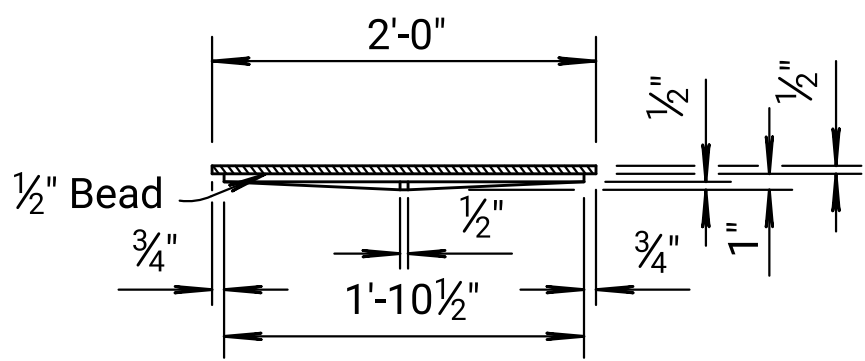
TYPE B



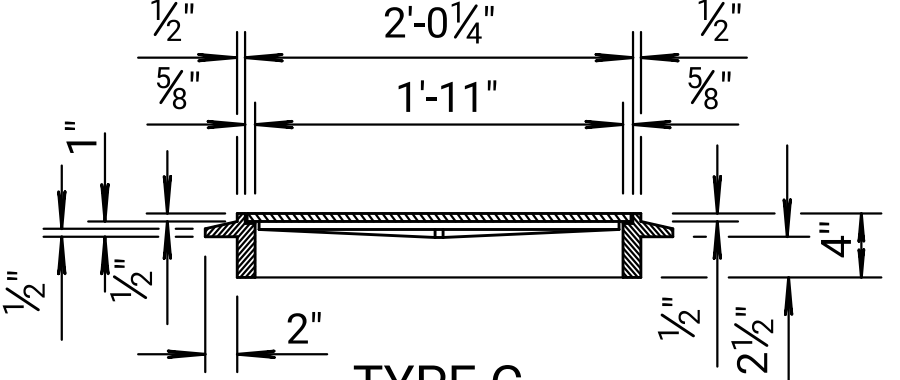
(Type A Ring= 192 lbs., Type B Ring= 198 lbs.)

HEAVY TYPE
MANHOLE COVER AND RING

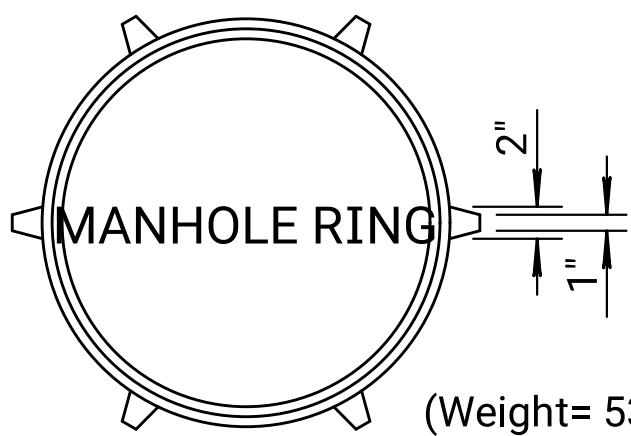
Note: Either Type A or Type B may be used.



MANHOLE COVER TYPE C
(Weight= 64 lbs.)



TYPE C



(Weight= 53 lbs.)

* LIGHT TYPE
MANHOLE COVER & RING
*Rings with four equally spaced lugs will be permitted.

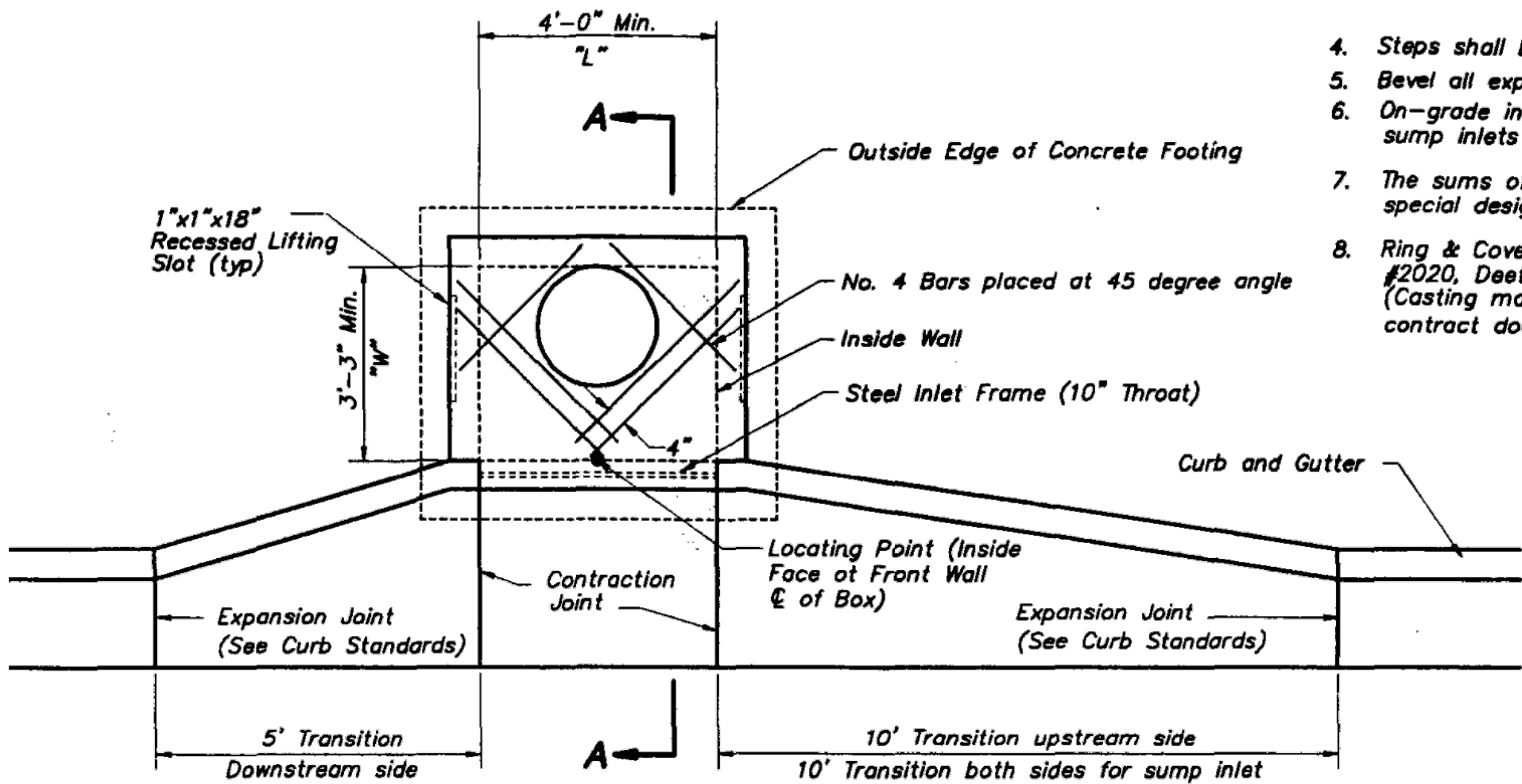
NO.	DATE	REVISIONS	BY	APP'D
32	7-17-17	Changed step dimensions	A.L.R.	S.W.K.
31	1-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
30	12-1 2-97	Revised step spacing	R.J.S.	J.O.B.
29	12-27-93	Delete paint note	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION			
REINFORCED CONCRETE MANHOLE			
RD633			
FHWA APPROVAL		APP'D. Scott W. King	
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK. 633	TRACE CK.

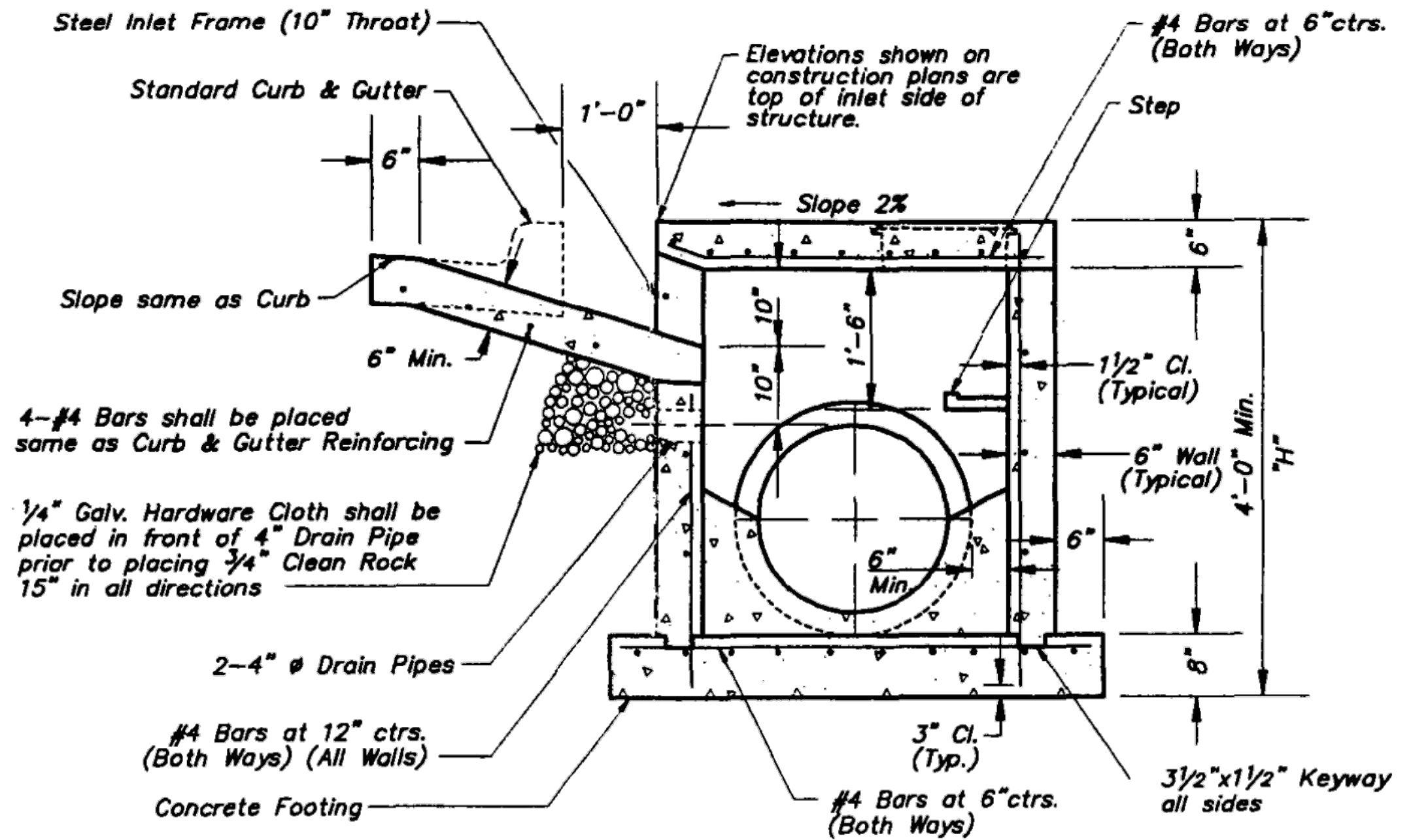
KDOT Graphics Certified 03-28-2018

GENERAL NOTES:

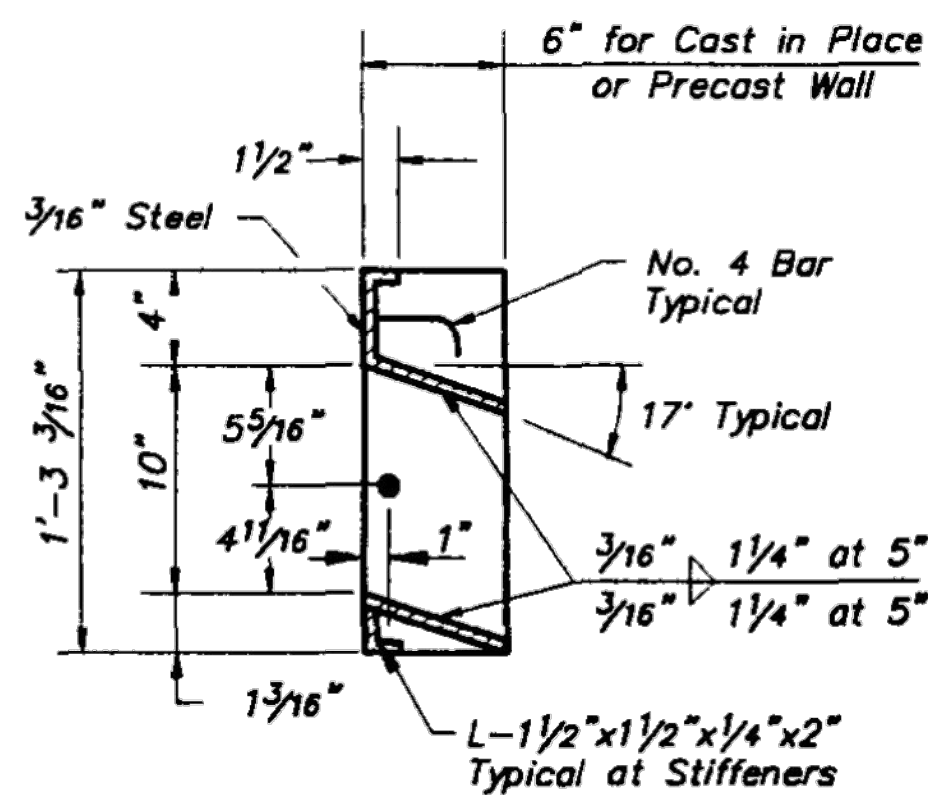
1. The first dimension listed in the Construction Notes is the "L" dimension. The second dimension is the "W" dimension. L's listed on the project plans are listed at the inside face of the wall.
2. Floor of Inlet shall be shaped with invert to provide smooth flow.
3. Locate MH ring and cover over outlet.
4. Steps shall be spaced at 1'-4" O.C. vertically.
5. Bevel all exposed edges with 3/4" chamfer or 1/2" tooled edge.
6. On-grade inlets shall conform to the street grade and sump inlets shall be level.
7. The sums of "L" & "W" shall not exceed 14' without special design. (See project plans for details.)
8. Ring & Cover to be Neenah R-1537, Clay & Bailey #2020, Deeter #2016, or approved equal. (Casting may vary by municipality, refer to plans & contract documents.)



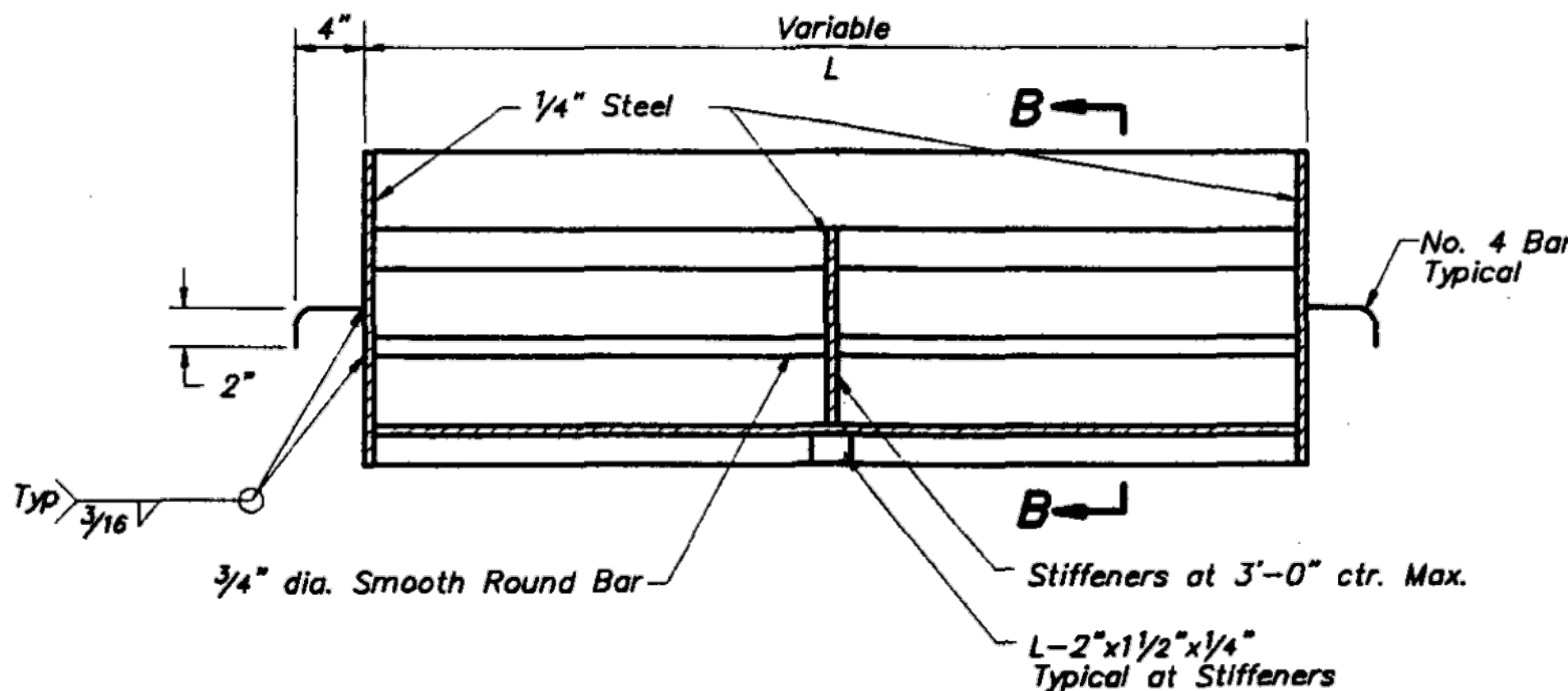
PLAN



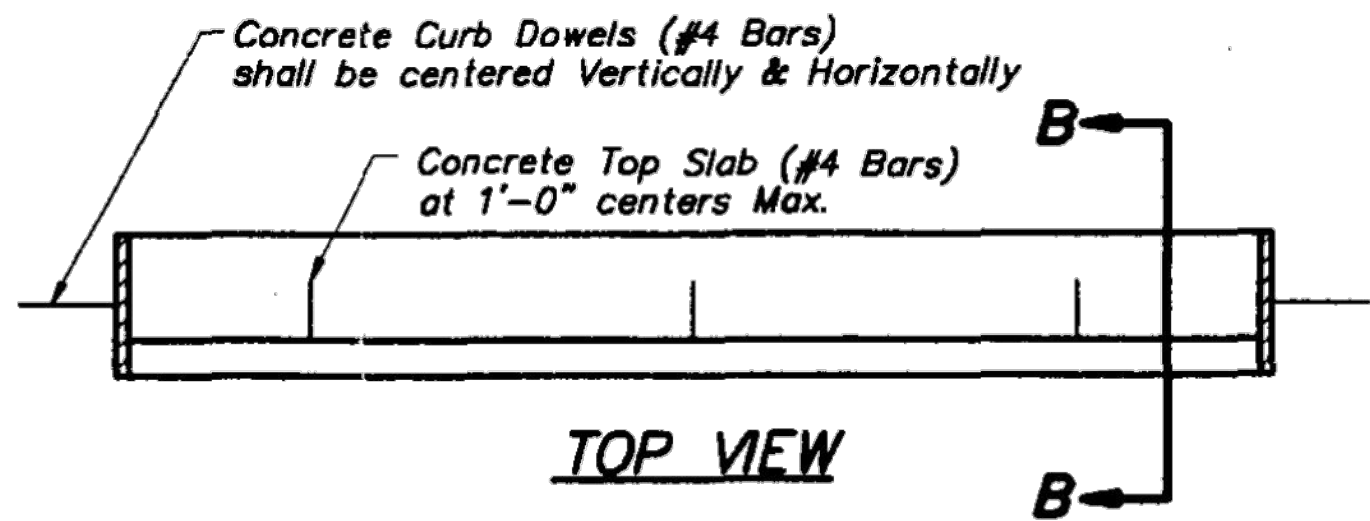
SECTION A-A



SECTION B-B



FRONT VIEW



TOP VIEW

Notes:

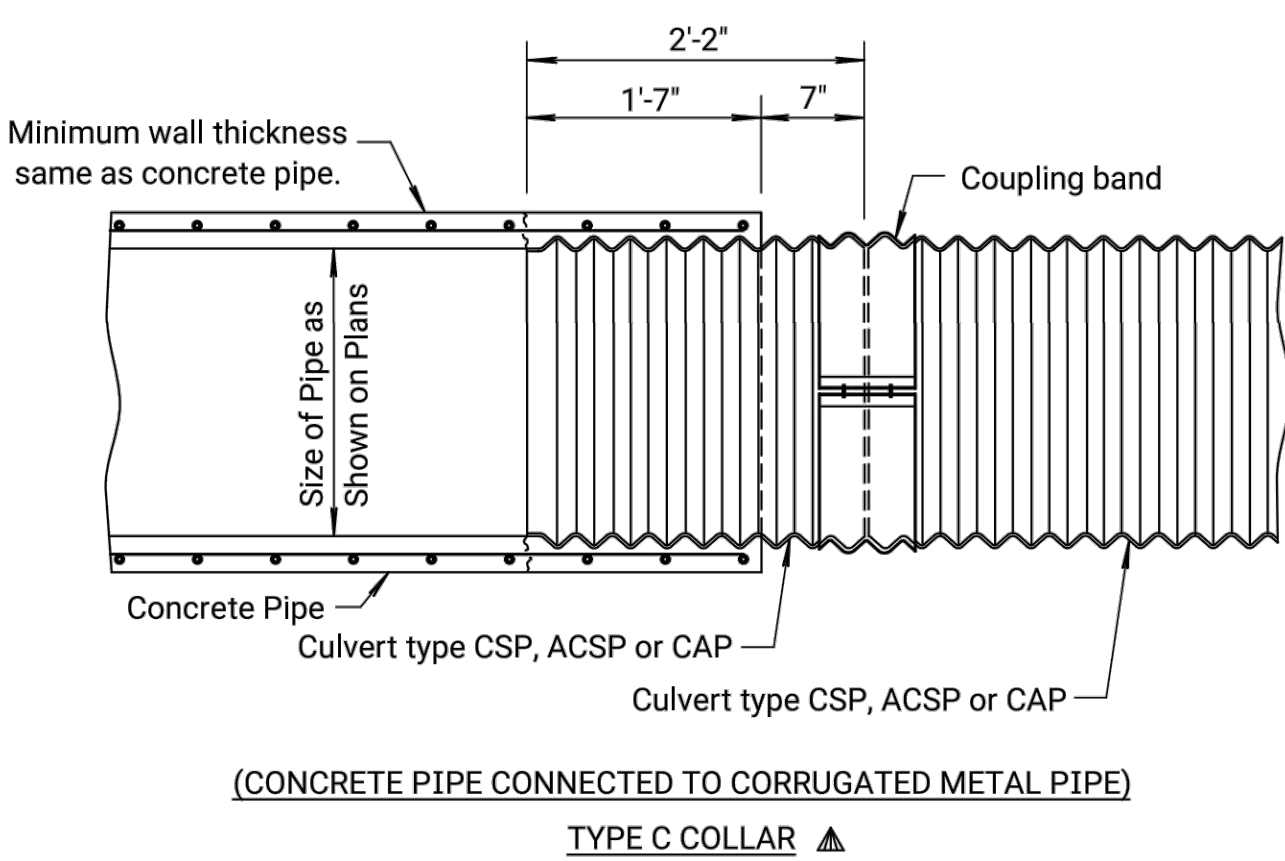
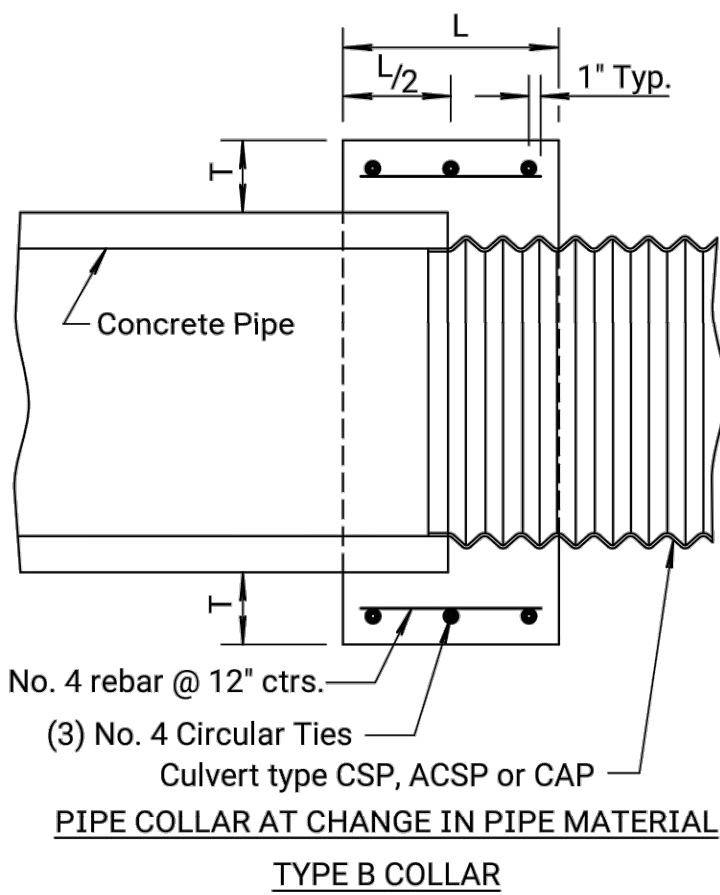
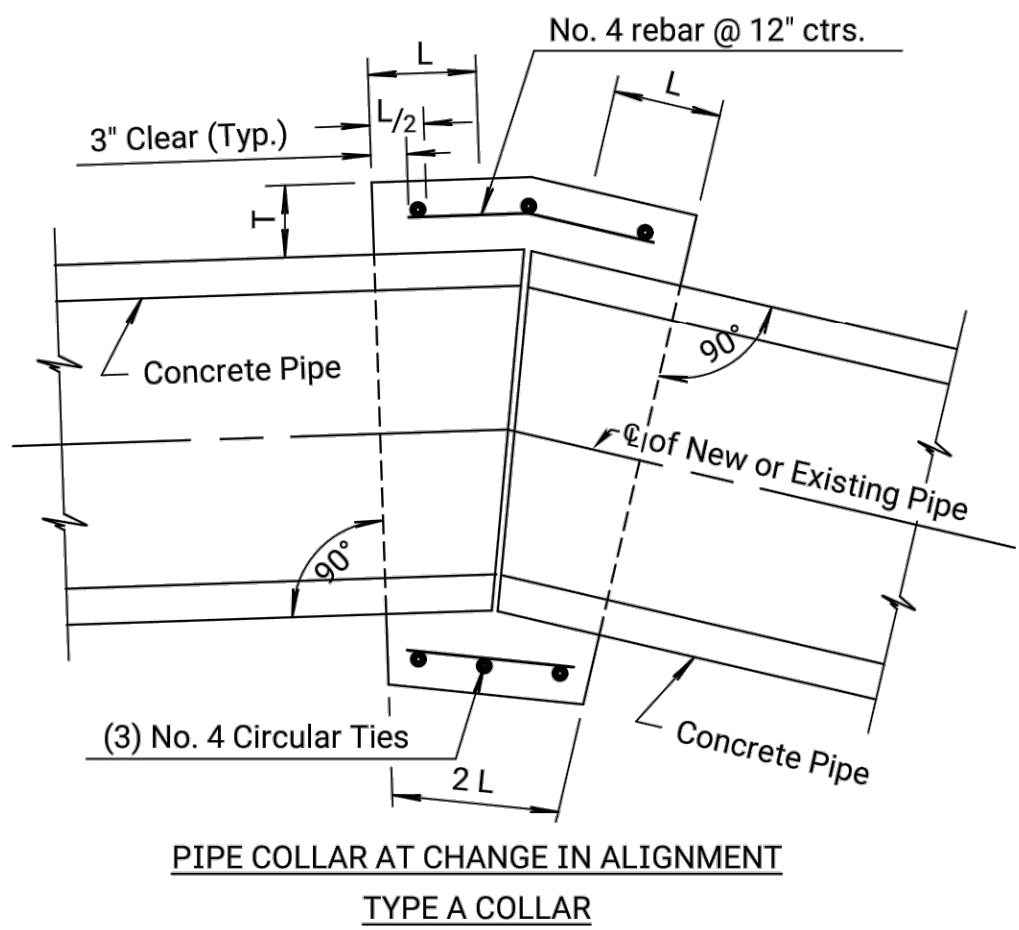
1. All welds shall be performed in accordance with appropriate AWS Specifications & Procedures.
2. All welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance.
3. The entire frame shall be painted a single coat of CHEM-PRIME #37-77 primer (Red) or equal.

AMERICAN PUBLIC WORKS ASSOCIATION	
APWA	
KANSAS CITY METROPOLITAN CHAPTER	
CURB INLET - TYPE 2 DETAILS	STANDARD DRAWING NUMBER CI - 2
ADOPTED: APRIL 17, 1996	

KANSAS DEPARTMENT OF TRANSPORTATION

SETBACK CURB INLET DETAILS

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	17	69



▲ A section of concrete pipe (6'-0" min.) is cast 1'-7" short with the re-steel protruding. Tack weld the re-steel to the 2'-2" section of CMP and finish casting the remaining 1'-7" of RCP around the CMP. This is an approved connection provided it is fabricated as an integral part of a section of concrete pipe.

CONCRETE PIPE COLLAR		
Pipe Dia.	L	T
18"	1'-0"	6"
24"	1'-0"	6"
36"	1'-6"	8"
48"	1'-6"	10"
60"	1'-9"	11"

General Notes:

Pipe collar shall be used to join pipes of different diameters or materials or where change in alignment or grade exceeds that allowed for ordinary joints.

All concrete shall be Concrete Grade 3.0. All reinforcing steel shall be Grade 60 and shall have a minimum of 2" of cover.

The diameter of the circular ties shall be the outside diameter of the larger pipe plus "T".

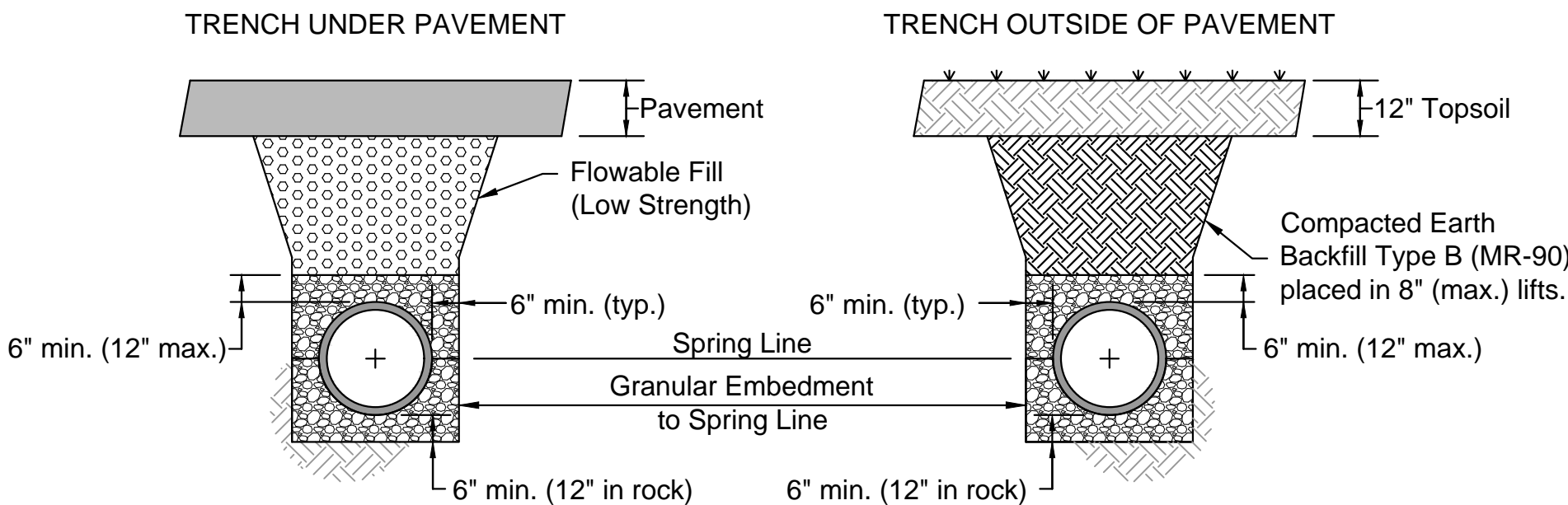
The maximum allowable distance between the ends of the pipes at any point is 2".

All labor, materials and incidentals required to construct the pipe collar Type A, B or C shall not be paid for directly but shall be subsidiary to the individual pipe bid items.

Aluminum or aluminized pipes or end sections shall be coated with an asphaltic paint when in contact with fresh concrete in accordance with the Standard Specifications.

Pipe ends shall be trimmed such that the maximum distance between pipes at any point is 2".

PIPE COLLARS



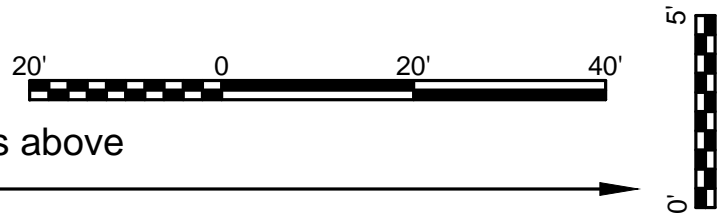
TYPICAL STORM SEWER TRENCH SECTIONS

Not to Scale

KANSAS DEPARTMENT OF TRANSPORTATION

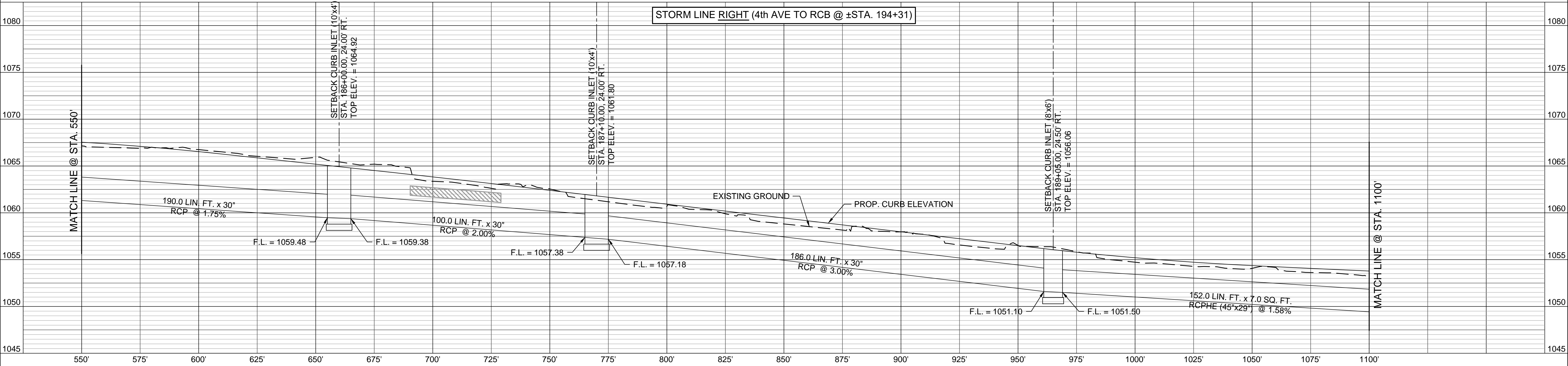
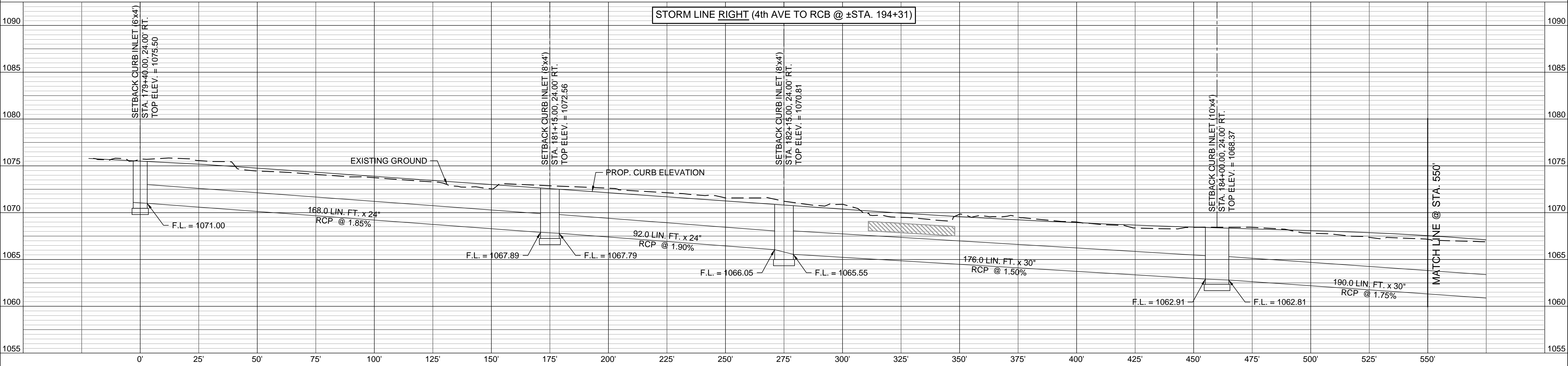
MISCELLANEOUS STORM SEWER DETAILS

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert. _____



LEGEND
Flowable Fill (in Profile)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	18	69

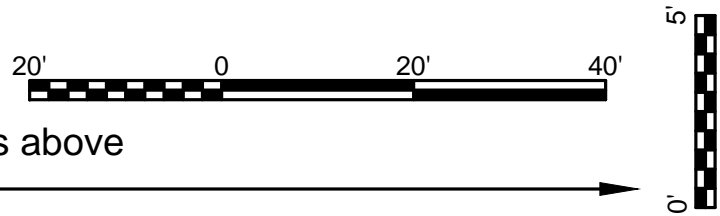


BG PROJECT #19-1514L

KANSAS DEPARTMENT OF TRANSPORTATION

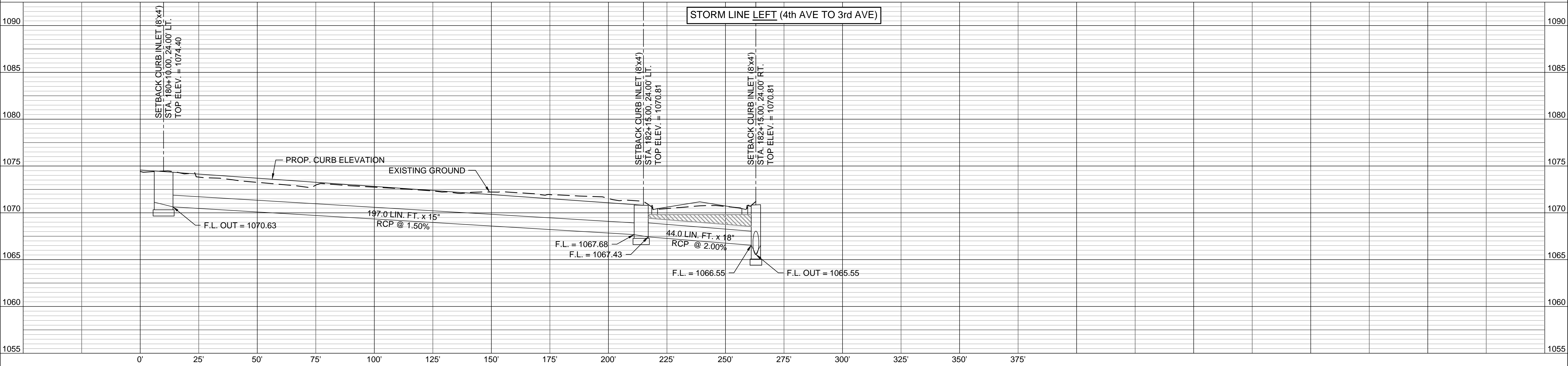
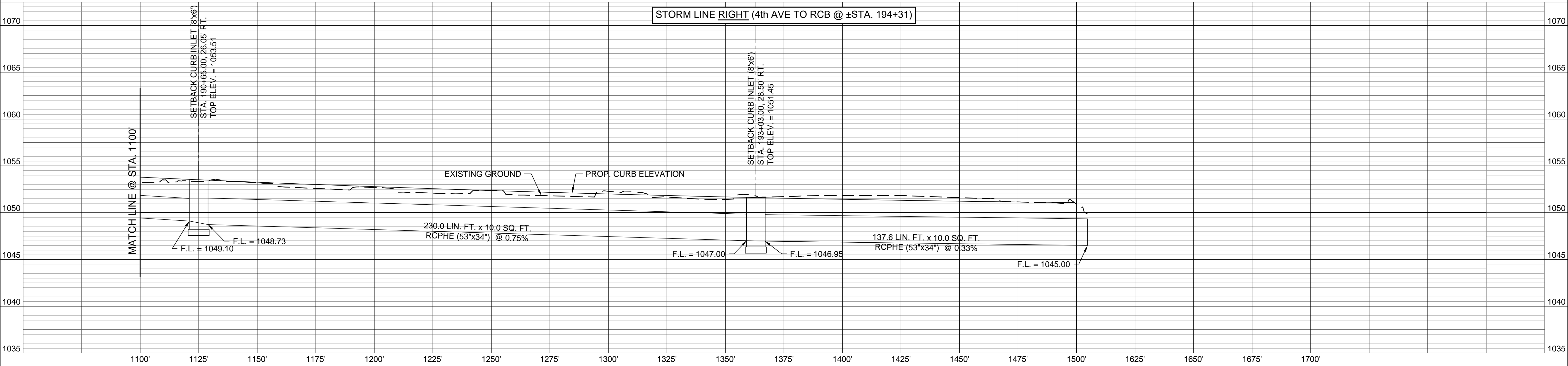
STORM SEWER PROFILES

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert. _____



LEGEND
Flowable Fill (in Profile)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	19	69

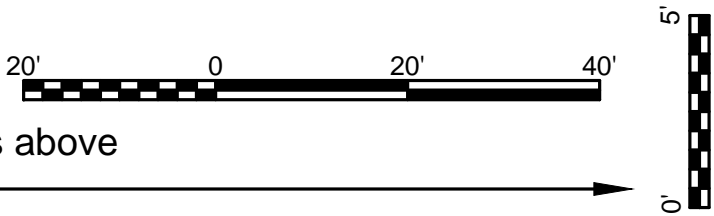


BG PROJECT #19-1514L

KANSAS DEPARTMENT OF TRANSPORTATION

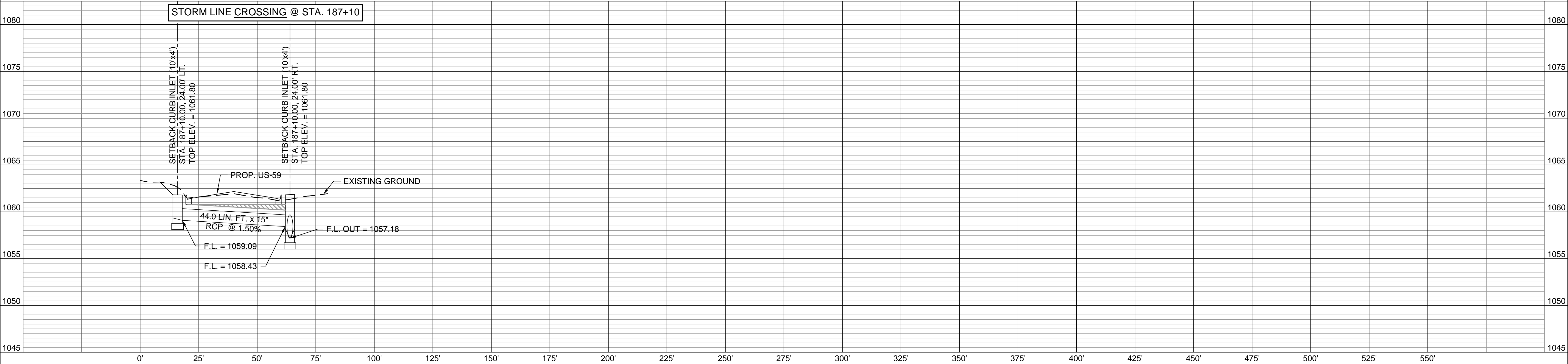
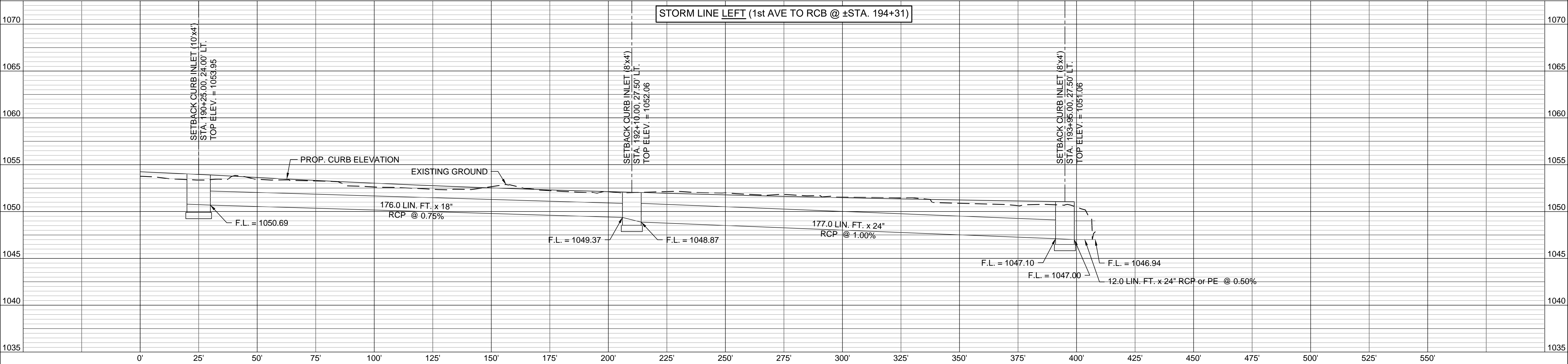
STORM SEWER PROFILES

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert. _____



LEGEND
Flowable Fill (in Profile)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	20	69



BG PROJECT #19-1514L

KANSAS DEPARTMENT OF TRANSPORTATION

STORM SEWER PROFILES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	21	69

SCHEDULE OF INLETS AND MANHOLES

FOR INFORMATION ONLY

REMARKS

[illegible]

TOTAL

⊗ Note: Top Elevation is located as follows:

1. Manhole - Top of Manhole Ring
2. Curb Inlet - Top of curb.
3. Gutter Inlet - Top back of gutter.
4. Inlet - Manhole, Special - Top of Grate.
5. Ditch Inlet - Top of Concrete at Cover Plate.

3	1-28-05	Changed Class to Grade concrete	S.W.K.	J.O.B.
2	5-21-99	Added top elevation location note	R.J.S.	J.O.B.
1	10-8-90	Detailed on CADD	R.J.S.	J.O.B.
NO.	DATE	REVISIONS	BY	APPD

KANSAS DEPARTMENT OF TRANSPORTATION

SCHEDULE INLETS AND MANHOLES

RD653H

FHWA APPROVAL 06-10-05		APP'D. James O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED B.N.B.
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK. R.J.S.

KDOT Graphics Certified 03-29-2018

Plotted:29-MAR-2018 09:19

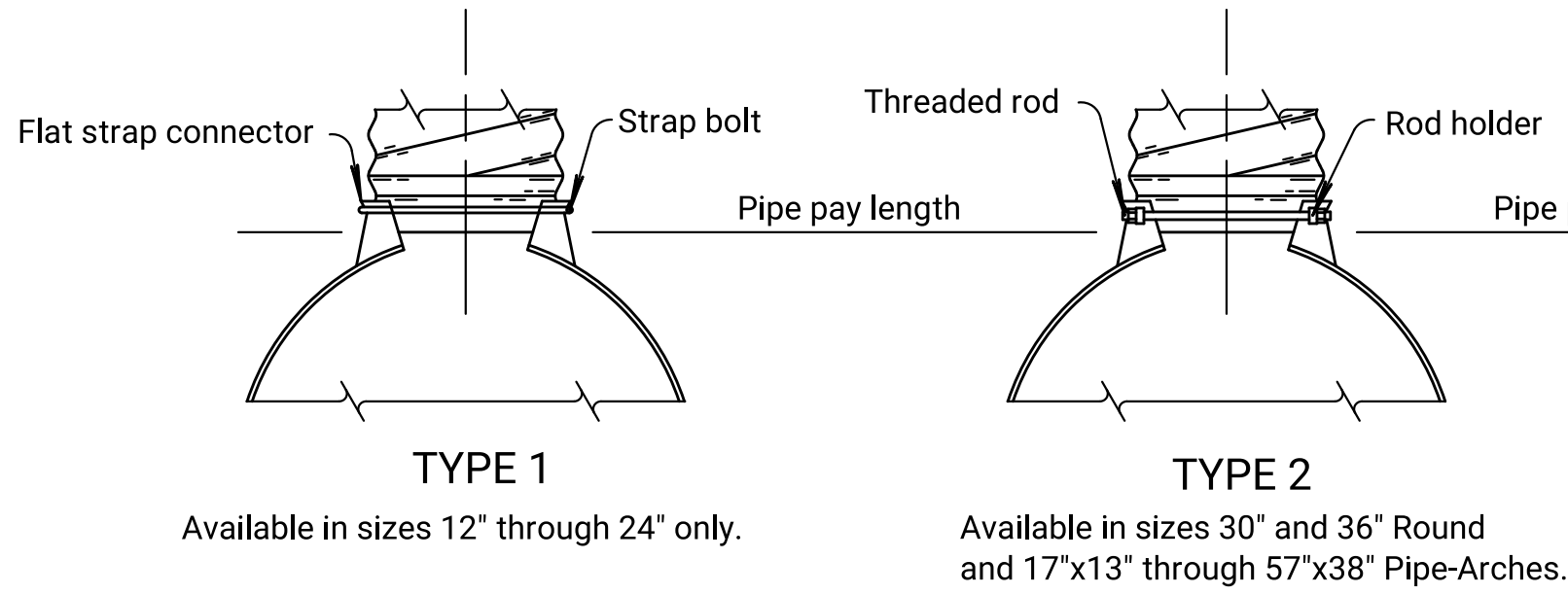
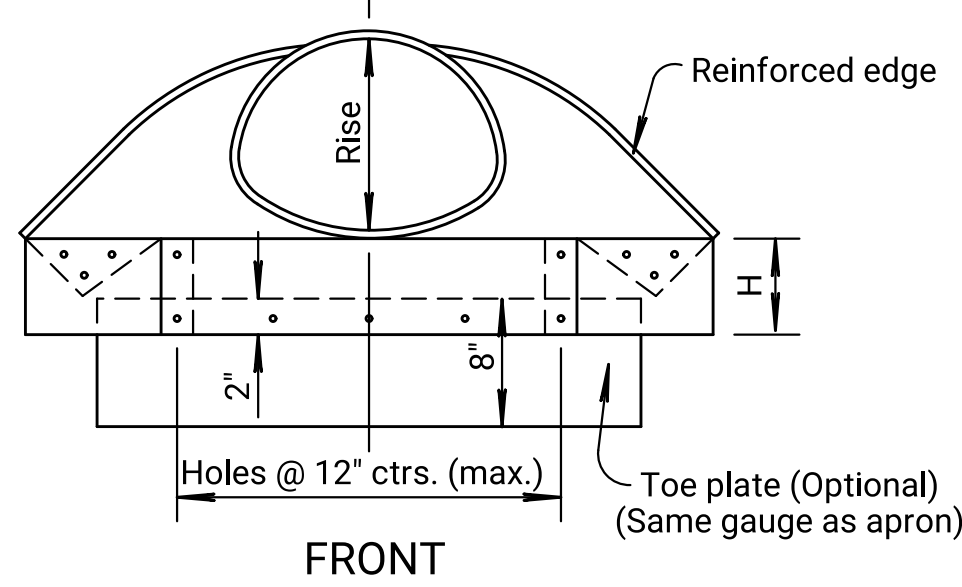
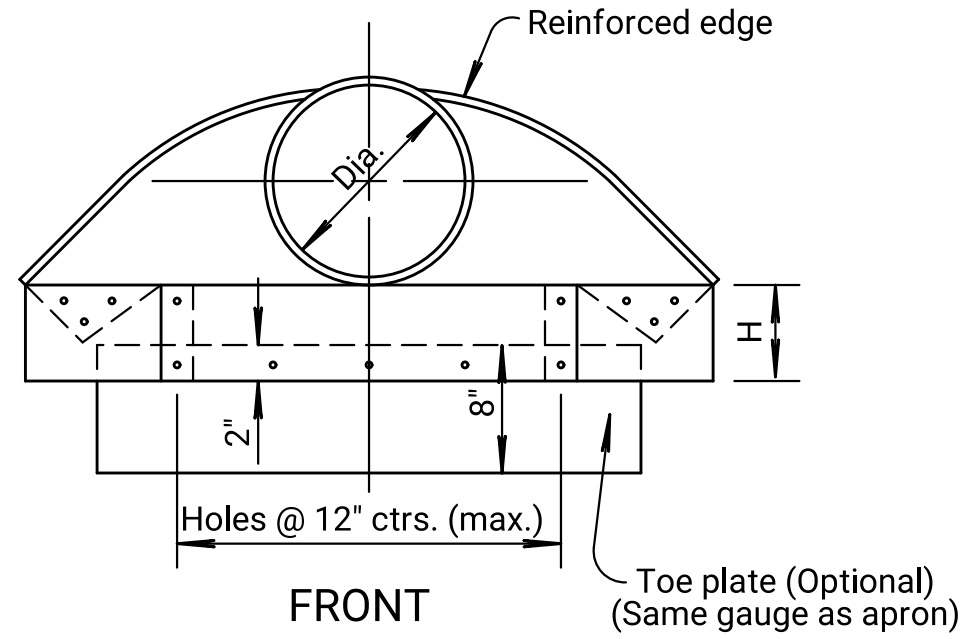
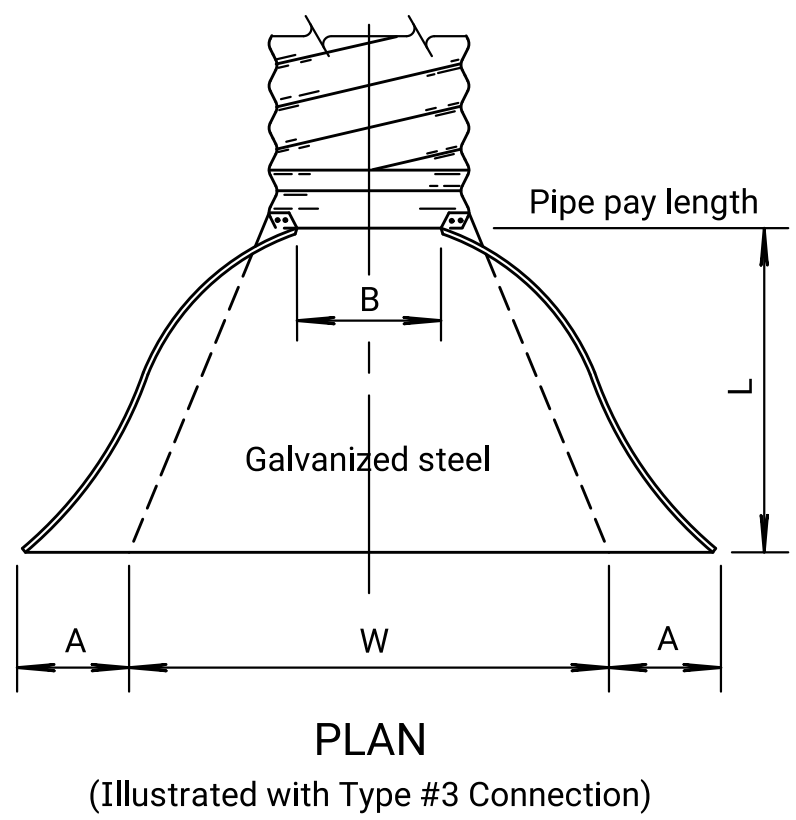
Drawn By : arockers
File : working_rd653h.dgn

◀DOT Graphics Certified

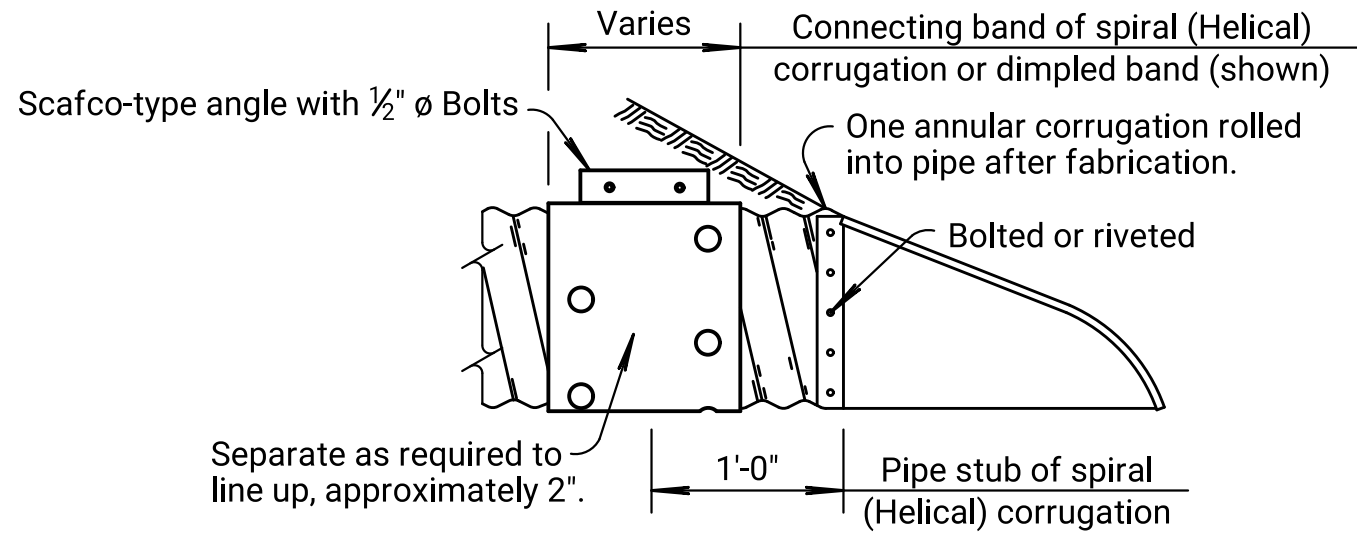
Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVCP, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/minimum fill heights and classes of pipe.

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Drawn By : arockers
File : working_rld660.dgn



Note: Type 3 connection may be furnished instead of Type 1 or Type 2 for smaller round or arch pipe.



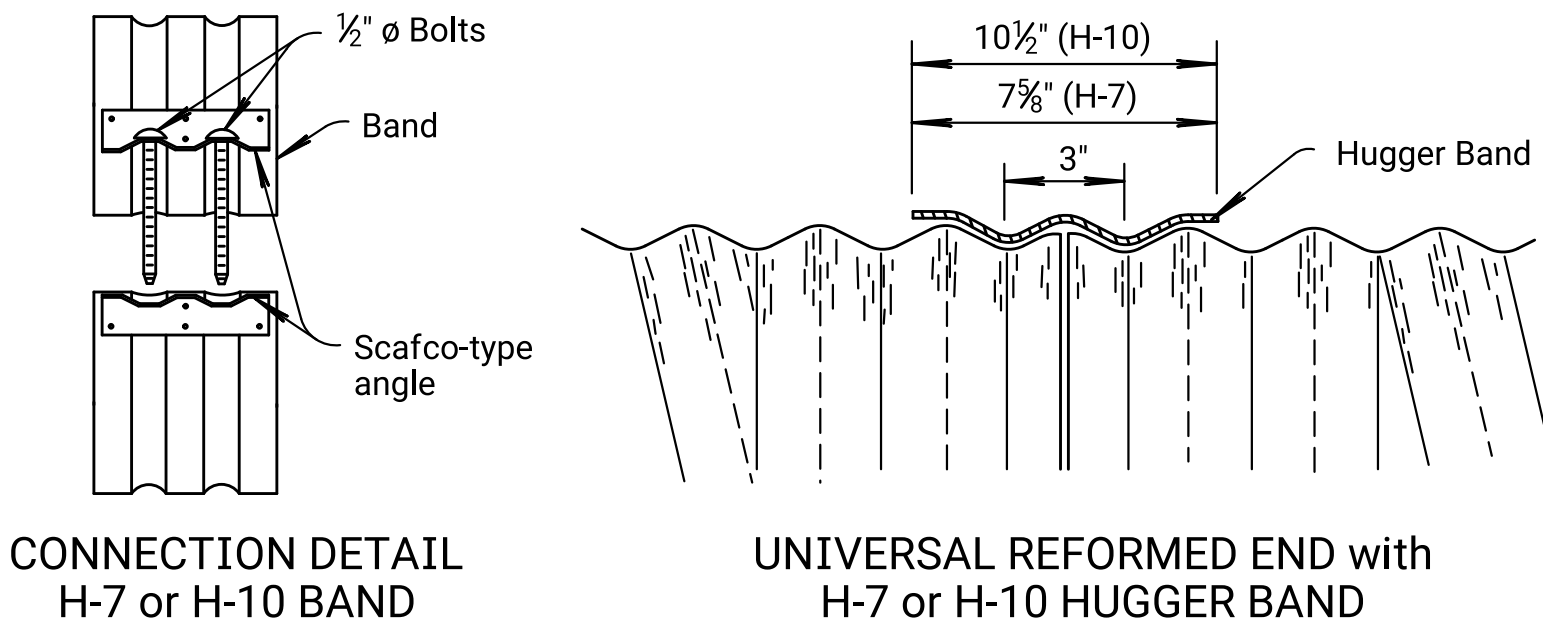
SPIRAL (HELICAL) CORRUGATION
For all sizes of round and arch culvert pipes having Spiral (Helical) corrugations, the end sections and connecting bands shall be as shown above.

Thickness CSP/ACSP	Thickness CAP	Gauge
0.064"	0.060"	16 ga.
0.079"	0.075"	14 ga.
0.109"	0.105"	12 ga.
0.138"	0.135"	10 ga.
0.168"	0.164"	8 ga.

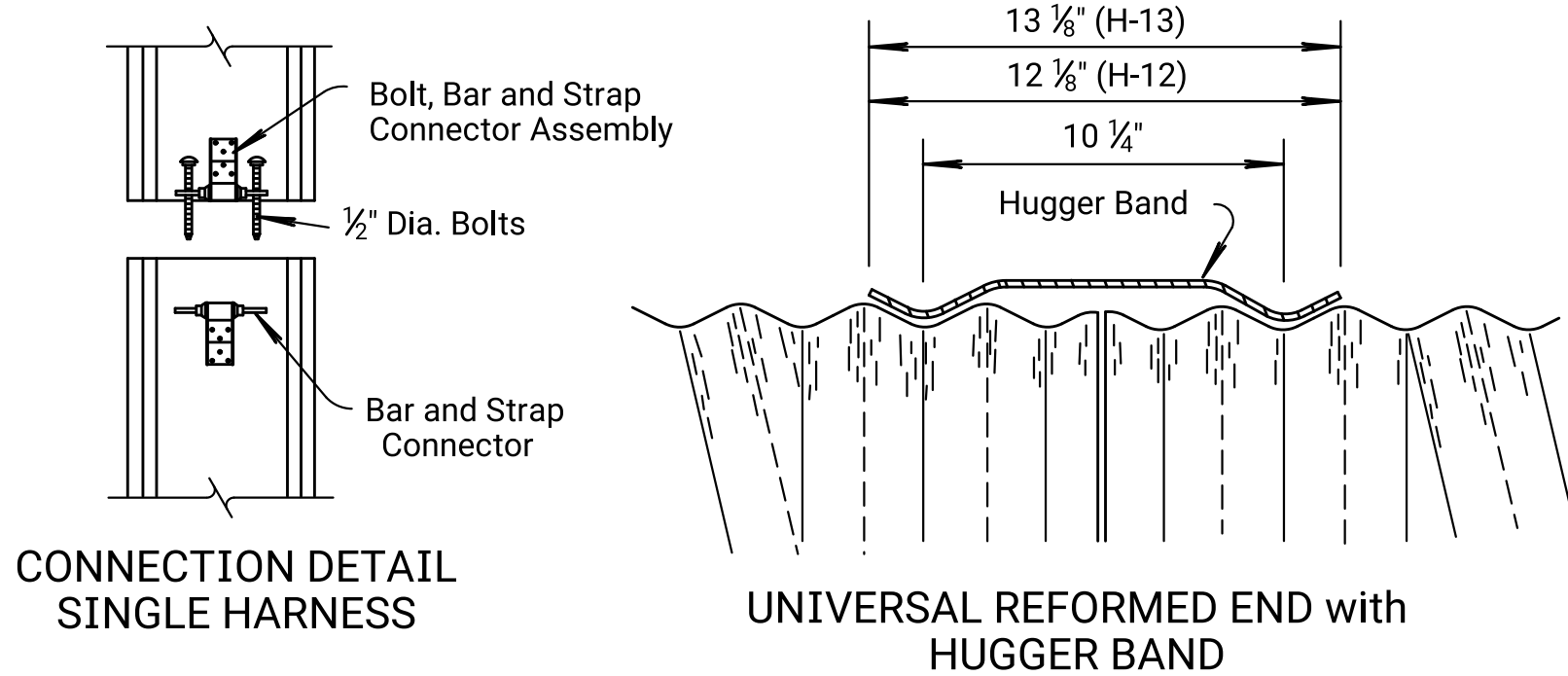
Pipe Dia. (In.)	CS, ACS or CA Gauge	Dimensions in Inches					Approx. Slope
		A (min.)	B (max.)	H (min.)	L (±2")	W (min.)	
12"	16	5	7	6	21	22	2½: 1
15"	16	6	8	6	26	28	2½: 1
18"	16	7	10	6	31	34	2½: 1
21"	16	8	12	6	36	40	2½: 1
24"	16	9	13	6	41	46	2½: 1
30"	14	11	16	8	51	55	2½: 1
36"	14	13	19	9	60	70	2½: 1
42"	12	15	25	10	69	82	2½: 1
48"	12	17	29	12	78	88	2½: 1
54"	12	17	33	12	84	100	2½: 1
60"	12/10	17	36	12	87	112	2: 1
66"	12/10	17	39	12	87	118	2: 1
72"	12/10	17	44	12	87	120	2: 1
78"	12/10	17	48	12	87	130	1½: 1
84"	12/10	17	52	12	87	136	1½: 1
90"	12/10	17	58	12	87	142	1½: 1
96"	12/10	17	58	12	87	144	1½: 1

Bid Designation Sq. Ft.	Nom. W.W. Area Sq. Ft.	Pipe Arch	Dimensions in Inches 2½" x ½" Corrugations						Dimensions in Inches 3" x 1" or 5" x 1" Corr.						Approx Slope
		Span & Rise	CS, ACS or CA Gauge	A (min.)	B (max.)	H (min.)	L (±2")	W (min.)	CS, ACS or CA Gauge	A (min.)	B (max.)	H (min.)	L (±2")	W (min.)	
1.0	1.1	17" x 13"	16	5	9	6	20	28							2½: 1
1.5	1.6	21" x 15"	16	6	11	6	24	34							2½: 1
2.0	2.2	24" x 18"	16	7	12	6	28	40							2½: 1
2.5	2.9	28" x 20"	16	7	16	6	32	46							2½: 1
3.0 or 4.0	4.5	35" x 24"	14	9	16	6	39	58							2½: 1
5.0 or 6.0	6.5	42" x 29"	14	11	18	7	46	73							2½: 1
7.0 or 8.5	8.9	49" x 33"	12	12	21	9	53	82							2½: 1
10.0 or 11.0	11.7	53" x 41"							12	17	26	12	63	88	2: 1
10.0 or 11.0	11.6	57" x 38"	12	16	26	12	62	88							2: 1
12.5 or 14.0	15.6	60" x 46"							12	17	36	12	70	100	2: 1
12.5 or 14.0	14.7	64" x 43"	12	17	30	12	69	100							2: 1
16.5	19.3	66" x 51"							12/10	17	36	12	70	112	1½: 1
16.5	18.1	71" x 47"	12/10	17	36	12	77	112							1½: 1
21.0	23.2	73" x 55"							12/10	17	36	12	77	124	1½: 1
21.0	21.9	77" x 52"	12/10	17	36	12	77	124							1½: 1
25.0	27.4	81" x 59"							12/10	17	44	12	77	136	1½: 1
25.0	26.0	83" x 57"	12/10	17	44	12	77	130							1½: 1
32.0	32.1	87" x 63"							12/10	17	44	12	77	136	1½: 1
36.0	37.0	95" x 67"							12/10	17	44	12	87	160	1½: 1
42.0	42.4	103" x 71"							12/10	17	44	12	87	172	1½: 1
47.0	48.0	112" x 75"							12/10	17	44	12	87	172	1½: 1

(Information listed in these tables are nominal and may vary by manufacturer.)

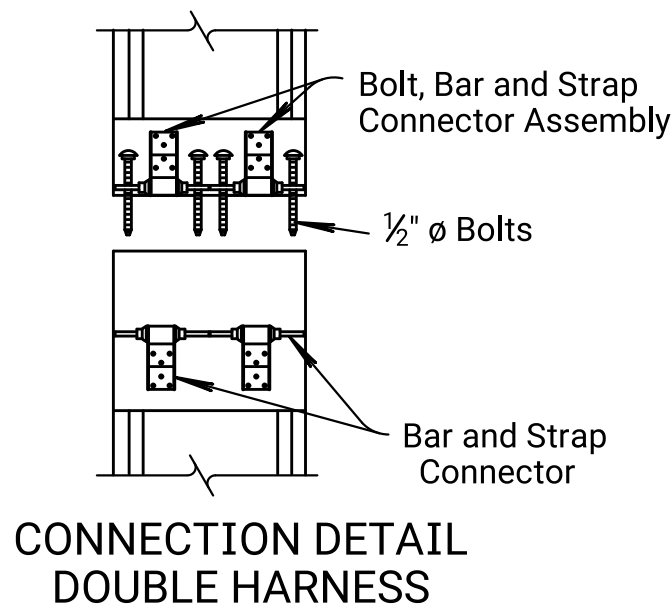


DETAILS FOR H-7 HUGGER BAND (12" thru 36") or H-10 HUGGER BAND (12" thru 120")



DETAILS FOR H-12 or H-13 HUGGER BAND

Pipe Dia. Inches	⊗ Minimum Gauge of Round Pipe				
	2½" x ½" Corr. CSP or ACSP	3" x 1" Corr. CSP or ACSP	5" x 1" Corr. CSP or ACSP	2½"x ½" Corr. CAP	3" x 1" Corr. CAP
12"	14			16	
15"	14			16	
18"	14			16	
21"	14			16	
24"	14			16	
30"	14			14	
36"	14			14	16
42"	14			12	16
48"	12	14	16	14	16
54"	12	14	16	14	16
60"	10	14	16	14	16
66"	10	14	16	14	16
72"	10	14	16	14	16
78"	8	14	14	14	14
84"	8	14	14	14	14
90"		14	14	14	14
96"		12	12	12	12
102"		12	12	12	10
108"		12	12	12	10
114"		12	12	12	8
120"		10	10	10	8



Bid Designation Sq. Ft.	Pipe Dimension Span & Rise	Sq. Ft.	Equiv. Round Pipe Diameter	⊗ Minimum Gauge of Arch Pipe				
				2½"x ½" Corr. CSP or ACSP	3" x 1" Corr. CSP or ACSP	5" x 1" Corr. CSP or ACSP	2½"x ½" Corr. CAP	3" x 1" Corr. CAP
1.0	17" x 13"	1.1	15"	14			16	
1.5	21" x 15"	1.6	18"	14			16	
2.0	24" x 18"	2.2	21"	14			16	
2.5	28" x 20"	2.9	24"	14			14	
3.0 or 4.0	35" x 24"	4.5	30"	14			14	
5.0 or 6.0	42" x 29"	6.5	36"	14			12	
7.0 or 8.5	49" x 33"	8.9	42"	14			12	
10.0 or 11.0	53" x 41"	11.7	48"		14			
10.0 or 11.0	57" x 38"	11.6	48"	12			10	
12.5 or 14.0	60" x 46"	15.6	54"		14			14
12.5 or 14.0	64" x 43"	14.7	54"	12			10	
16.5	66" x 51"	19.3	60"		14			14
16.5	71" x 47"	18.1	60"	10			8	
21.0	73" x 55"	23.2	66"		14			14
21.0	77" x 52"	21.9	66"	8				
25.0	81" x 59"	27.4	72"		14	12		12
25.0	83" x 57"	26.0	72"	8				
32.0	87" x 63"	32.1	78"		12	12		12
36.0	95" x 67"	37.0	84"		12	12		12
42.0	103" x 71"	42.4	90"		12	12		10
47.0	112" x 75"	48.0	96"		12	12		8
54.0	117" x 79"	54.2	102"		10	10		
60.0	128" x 83"	60.5	108"		10	10		
67.0	137" x 87"	67.4	114"		10	10		
74.0	142" x 91"	74.5	120"		8	8		

GENERAL NOTE for METAL PIPE
Culvert "Type" listed may be CSP, ACSP, CAP, RCP, PVCP & PEP within guidelines of KDOT Pipe Policy for geographic location. More than one pipe "Type" may be acceptable for a design location with allowable types listed for each site.
There shall be no payment for gain in pipe length due to fit of pipe at connecting band.
When Hugger Bands are used, the H-7 Hugger Band may be used on circular pipes 36" diameter and smaller or pipe arches 42"x 29" and smaller. The H-10 Hugger Band may be used on 12" thru 120" pipe. The H-12 or H-13 Hugger Band are for pipe sizes larger than 36" diameter or 42"x29" arch pipe.
⊗ Pipe gauge listed in the tables on this sheet are minimum for E=750 p.s.i. soil. Pipe gauge will be determined for each site based on the Design Manual Volume I- Part C Fill Height Tables and shall be listed in the Pipe Culvert Summary. Gauges shown on this Standard Drawing are KDOT minimum and may not be industry minimum gauge.
In geographic areas that allow CSP (24" or smaller arched or round pipe) for entrance and side road installation with less than 3,000 AADT, 16 gauge ACSP may be substituted for 14 gauge CSP.
Aluminum or aluminized pipes or end sections shall be coated with an asphaltic paint when in contact with fresh concrete in accordance with the Standard Specifications.

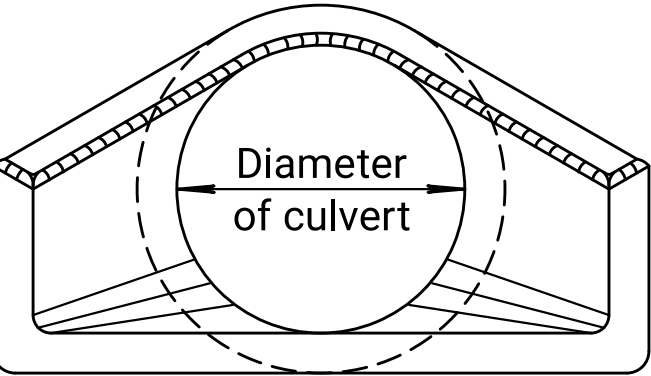
4	9-10-09	Rev. Round and Arch tables, add, Alum.	S.W.K.	J.O.B.
3	1-20-09	Rev. Round Pipe Gauges	S.W.K.	J.O.B.
2	4-18-08	Rev. layout, details, tables and notes	S.W.K.	J.O.B.
1	4-27-98	Added pipe corrugation option note	R.J.S.	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
METAL END SECTION FOR ROUND & ARCH METAL CULVERTS (TYPE I) & PIPE GAUGE TABLES				
RD660				
FHWA APPROVAL 12-16-09			APP'D, James O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED	Bowser
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	King

KDOT Graphics Certified 03-29-2018

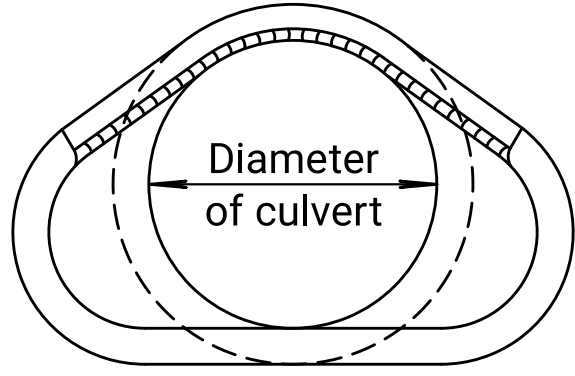
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Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVCP, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/minimum fill heights and classes of pipe.

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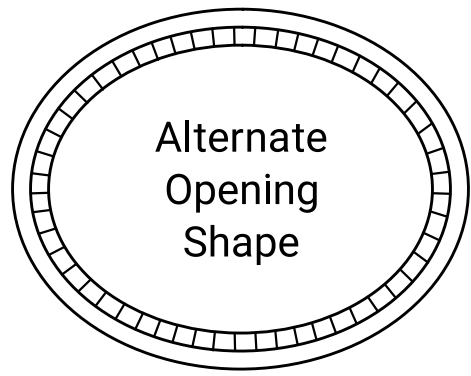


END ELEVATION (TYPE I)

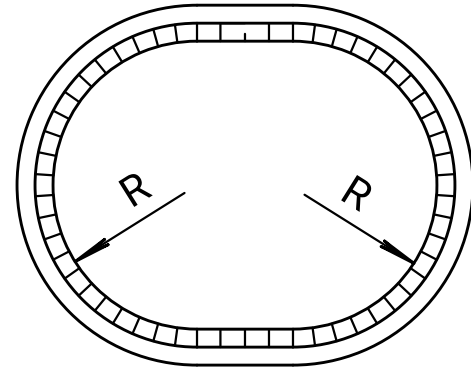


SECTION A-A

Showing rounding of inside edge of end section.

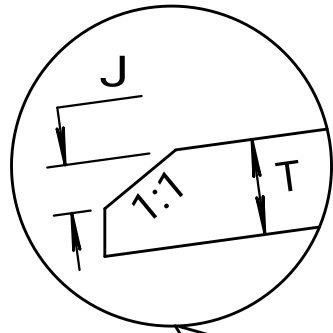


Alternate
Opening
Shape

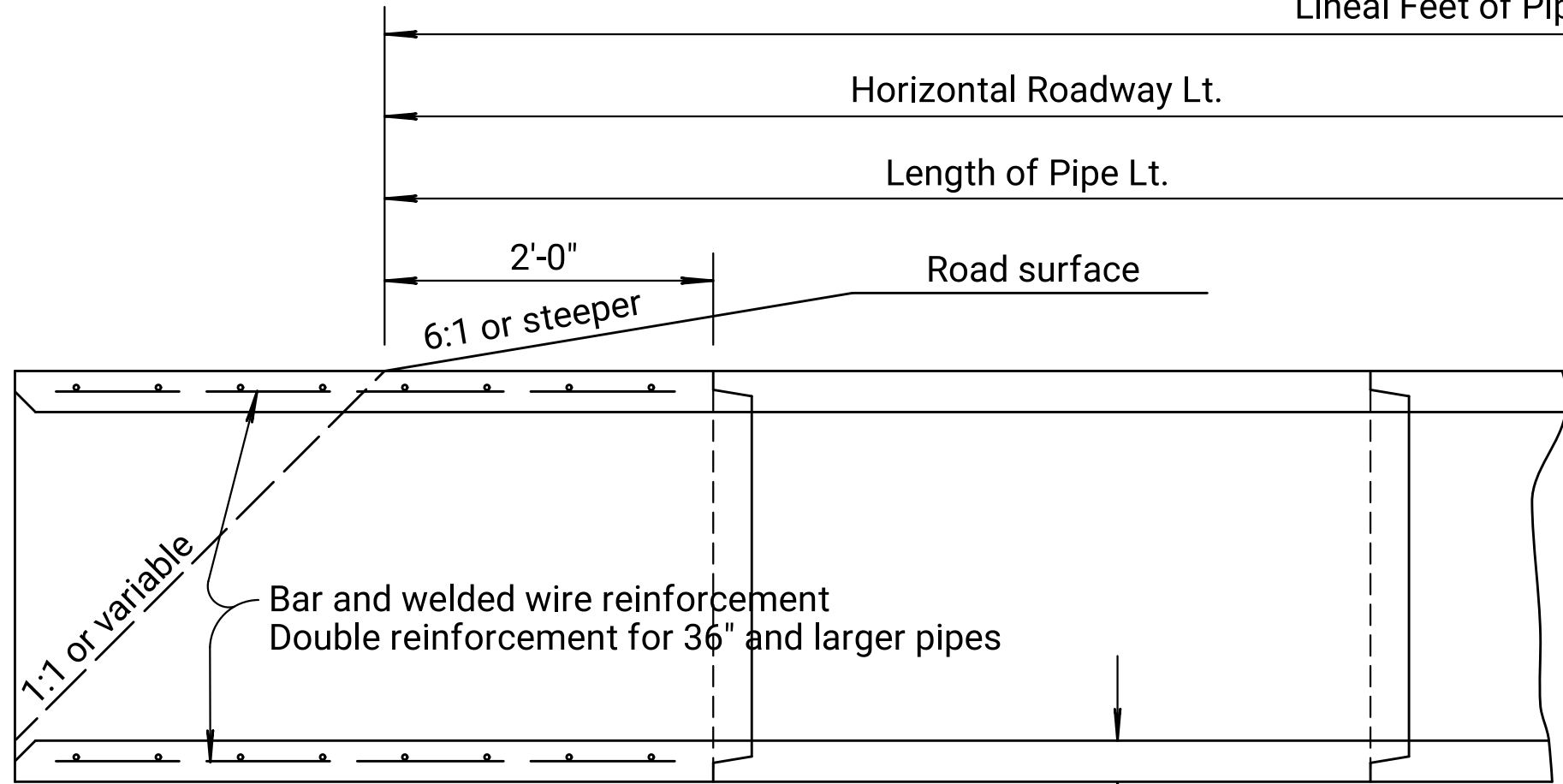


END ELEVATION (TYPE III)

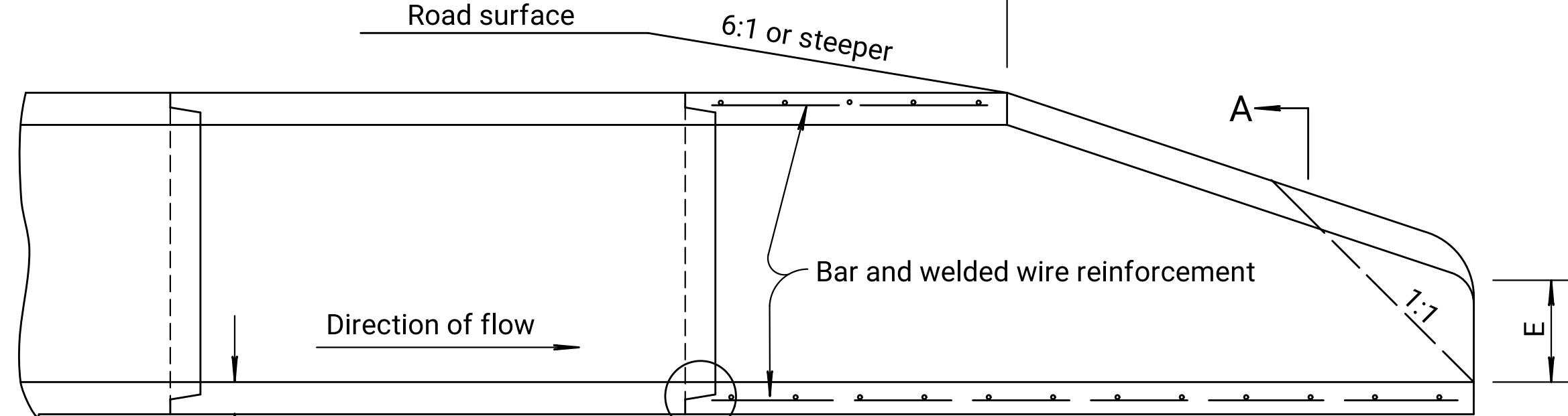
END ELEVATION (TYPE III)



- Ø Transition to round pipe.
- ≠ Paid for as separate item of End Section, except when structures shall bid as alternates. In that case End Sections shall be subsidiary to bid item. "Drainage Structure No. ".
- ≠≠ Included in pay length of pipe.
- ✱ Minimum waterway area is calculated at the inside of the bevel.

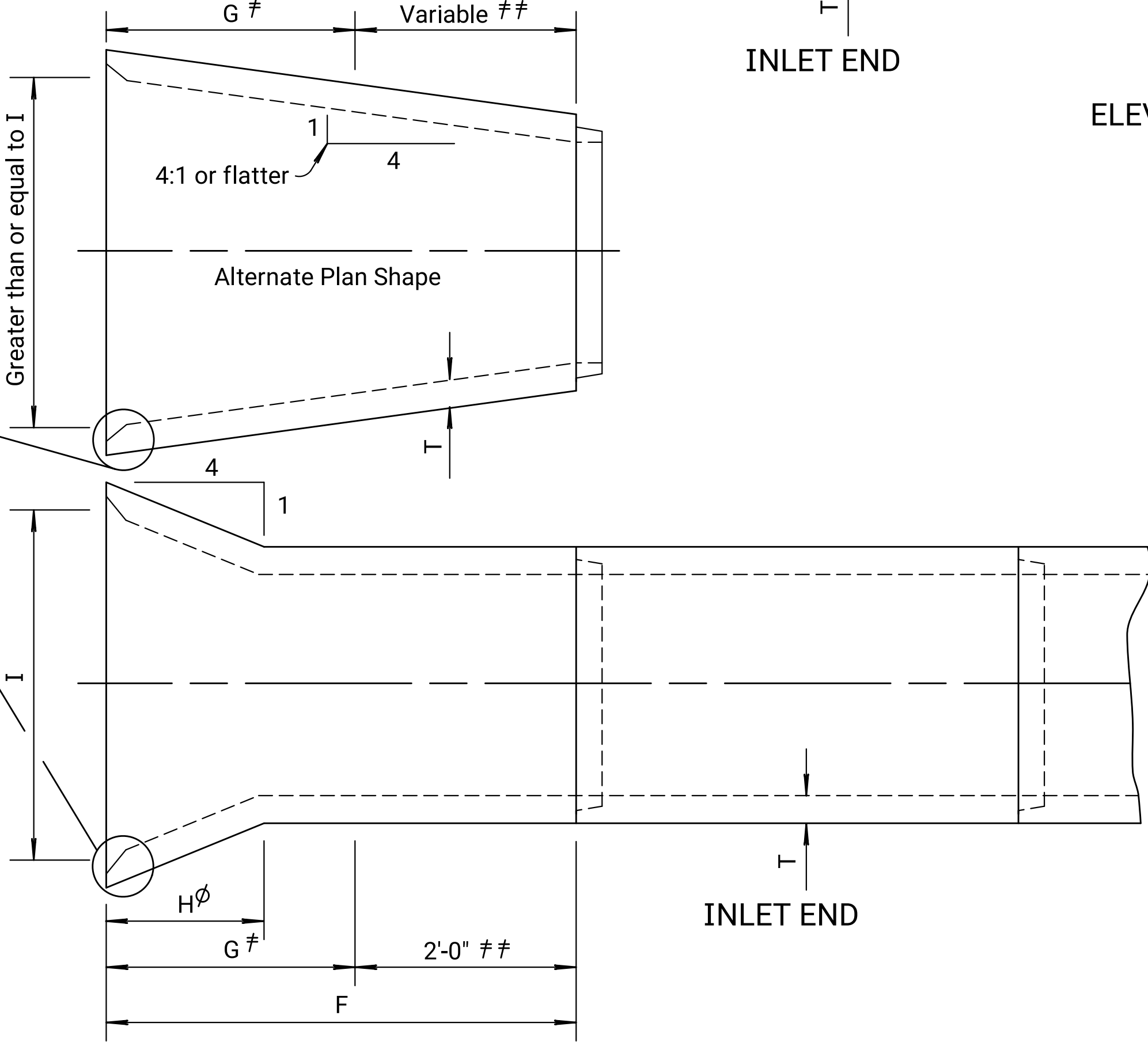


INLET END

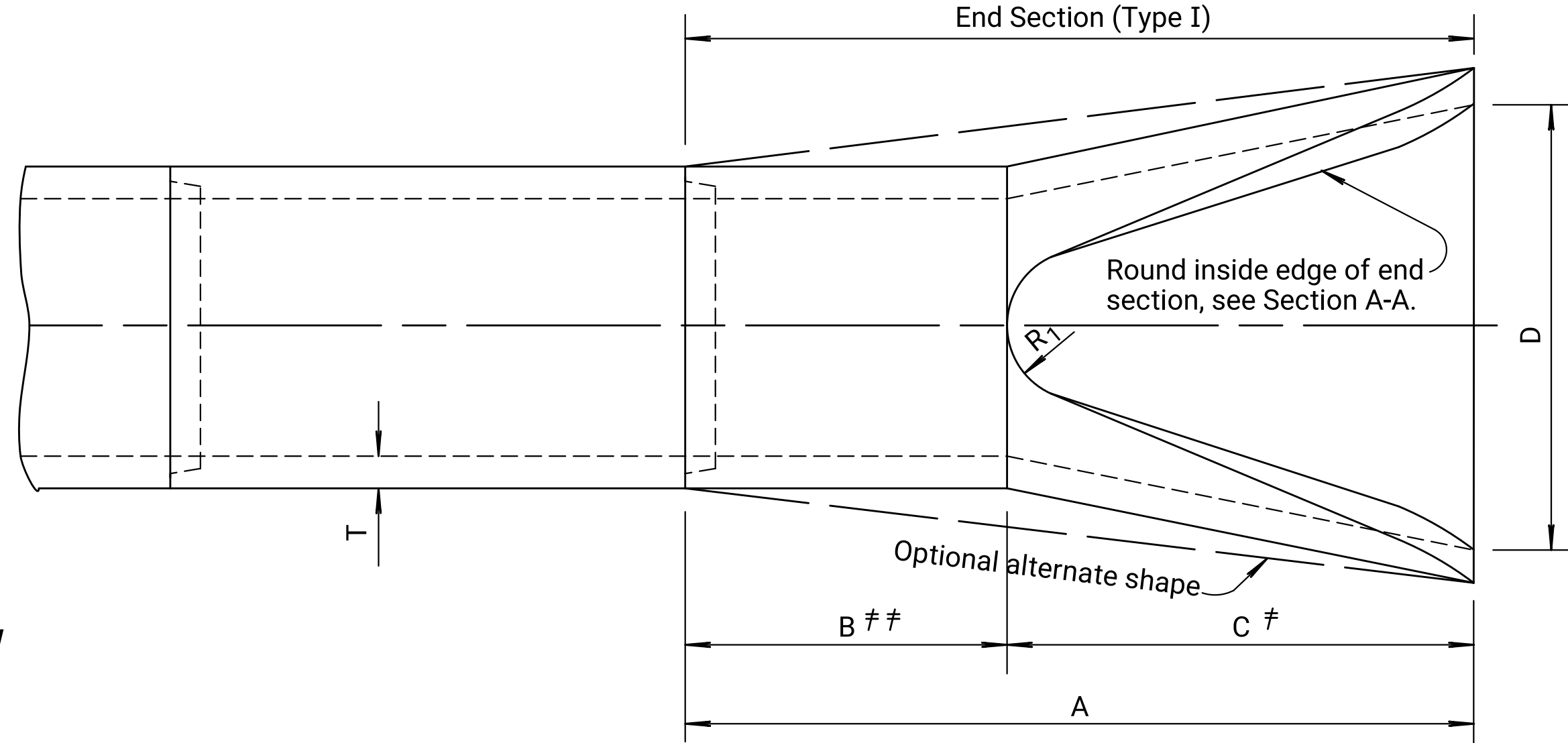


OUTLET END

Note: There shall be no payment for gain in length due to joint fit tolerance.



INLET END



OUTLET END

END SECTION (TYPE I) NOMINAL DIMENSIONS								
Diam.	A	B≠≠	C≠	D	E	Ri	Slope	T
12"	6'-0 7/8"	4'-0 7/8"	2'-0"	2'-0"	4"	9	3:1	2"
15"	6'-1"	3'-10"	2'-3"	2'-6"	6"	11	3:1	2 1/4"
18"	6'-1"	3'-10"	2'-3"	3'-0"	9"	12	3:1	2 1/2"
24"	6'-1 1/2"	2'-6"	3'-7 1/2"	4'-0"	9 1/2"	14	3:1	3"
30"	6'-1 3/4"	1'-7 3/4"	4'-6"	5'-0"	1'-0"	15	3:1	3 1/2"
36"	8'-1 3/4"	2'-10 3/4"	5'-3"	6'-0"	1'-3"	20	3:1	4"
42"	8'-2"	2'-11"	5'-3"	6'-6"	1'-9"	22	3:1	4 1/2"
48"	8'-2"	2'-2"	6'-0"	7'-0"	2'-0"	22	3:1	5"
54"	8'-2 1/4"	2'-9 1/4"	5'-5"	7'-6"	2'-3"	24	2.4:1	5 1/2"
60"	8'-3"	3'-3"	5'-0"	8'-0"	2'-11"	24	21	6"
72"	8'-3"	1'-9"	6'-6"	9'-0"	3'-0"	24	1.86:1	7"
84"	9'-3 1/2"	1'-9"	7'-6 1/2"	10'-0"	3'-0"	24	1.6:1	8"

SIDE TAPERED INLET SECTION (TYPE III)-NOMINAL DIMENSIONS									
Diam.	Min. W.W.-X- Area Sq. Ft.	F	G	H	I	J	K	R	T
24"	4.5	4'-3"	2'-3"	1'-5 1/8"	2'-8"	1 1/2"	8"	1'-0"	3"
30"	7.0	4'-9 1/2"	2'-9 1/2"	1'-9 1/2"	3'-4"	2"	10"	1'-3"	3 1/2"
36"	10.1	5'-4"	3'-4"	2'-1 1/2"	4'-0"	2"	1'-0"	1'-6"	4"
42"	13.7	5'-10 1/2"	3'-10 1/2"	2'-5 7/8"	4'-8"	2 1/2"	1'-2"	1'-9"	4 1/2"
48"	17.9	6'-5"	4'-5"	2'-10 1/8"	5'-4"	3"	1'-4"	2'-0"	5"
54"	22.7	6'-11 1/2"	4'-11 1/2"	3'-2 1/2"	6'-0"	3 1/2"	1'-6"	2'-3"	5 1/2"
60"	28.0	7'-6"	5'-6"	3'-6 7/8"	6'-8"	4"	1'-8"	2'-6"	6"
72"	40.3	8'-7"	6'-7"	4'-3 3/8"	8'-0"	5"	2'-0"	3'-0"	7"
84"	54.8	9'-8"	7'-8"	5'-0 3/8"	9'-4"	6"	2'-4"	3'-6"	8"

Dimensions for alternate shapes shall be equal to or greater than those shown in the table, unless otherwise shown.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	23	69

KANSAS DEPARTMENT OF TRANSPORTATION				
CONCRETE END SECTIONS FOR CONCRETE PIPES TYPE I & SIDE TAPERED INLET SECTION (TYPE III)				
RD662				
FHWA APPROVAL 6-27-08		APP'D. James O. Brewer		
DESIGNED	DETAILED	QUANTITIES	TRACED	Bowser
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	King

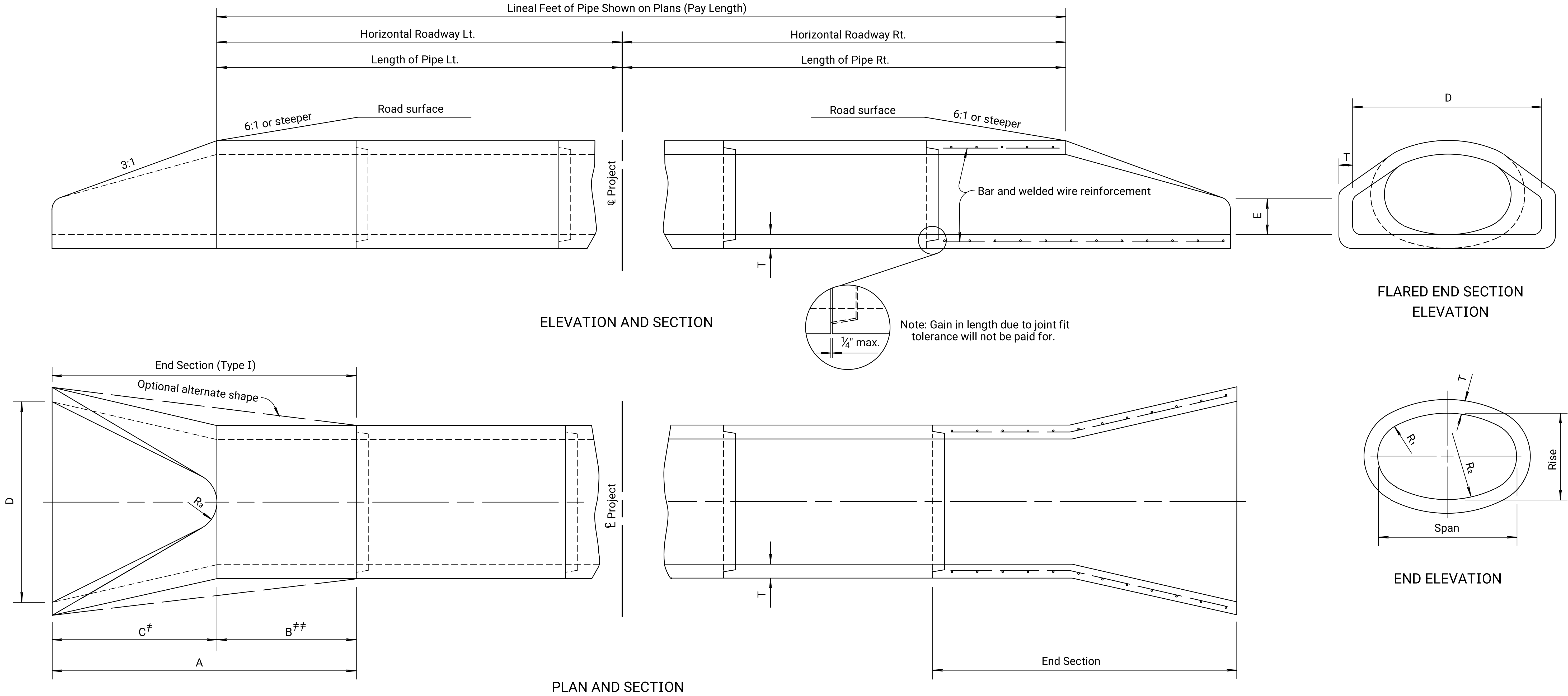
KDOT Graphics Certified 03-29-2018

KDOT Graphics Certified

Note to Designer: KDOT Pipe Policy provides guidance in identifying the prohibited and/or restricted uses of CSP, ACSP, PEP, PVCP, CAP & RCP. Provide end sections of the same type and coating as the pipe. Exceptions to this are noted in the Standard Specifications. Refer to the KDOT Design Manual, Volume I (Part C), Road Section, "Elements of Drainage & Culvert Design" for structural pipe design information which includes: corrugations, sizes, gauges, maximum/minimum fill heights and classes of pipe.

Drawn By : arockers
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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	24	69



END SECTION (TYPE I) NOMINAL DIMENSIONS													
Bid Designation Sq. Ft.	Equiv. Dia. (in.)	Min. W.W. Area Sq. Ft.	Span	Rise	Overall Length	Barrel Length	C [#]	D	E	R ₁	R ₂	R ₃	T
					A	B [#] / ₇							
1.0 or 1.5	18"	1.8	23"	14"	6'-0"	3'-9"	2'-3"	3'-0"	8"	6"	20"	6"	2¾"
2.0, 2.5 or 3.0	24"	3.3	30"	19"	6'-0"	2'-9"	3'-3"	4'-0"	8½"	8¼"	26¼"	7"	3¼"
4.0	27"	4.1	34"	22"	6'-0"	2'-2"	3'-10"	4'-6"	9"	9¼"	29 ¹⁷ / ₃₂ "	8"	3½"
5.0	30"	5.1	38"	24"	6'-0"	1'-6"	4'-6"	5'-0"	9½"	10¼"	32¾"	9"	3¾"
6.0	33"	6.3	42"	27"	6'-0"	1'-3"	4'-9"	5'-6"	10⅝"	11 ⁷ / ₁₆ "	36 ³ / ₁₆ "	10½"	3¾"
7.0	36"	7.4	45"	29"	8'-0"	3'-0"	5'-0"	6'-0"	11¼"	12¼"	39¼"	12"	4½"
8.5	39"	8.8	49"	32"	8'-0"	3'-0"	5'-0"	6'-3"	12"	13 ³ / ₁₆ "	42 ²¹ / ₃₂ "	12½"	4¾"
10.0	42"	10.2	53"	34"	8'-0"	3'-0"	5'-0"	6'-6"	15¾"	14¾"	46"	13"	5"
11.0 or 12.5	48"	12.9	60"	38"	8'-0"	3'-0"	5'-0"	7'-0"	21"	16½"	51¾"	14"	5½"
14.0 or 16.5	54"	16.6	68"	43"	8'-0"	3'-0"	5'-0"	7'-6"	25½"	18 ² / ₃₂ "	58 ¹³ / ₃₂ "	16"	6"

[#] Paid for as separate item of "End Sections".

^{##} Included in pay length of pipe.

Design of end section shall conform to standard reinforced concrete horizontal elliptical pipe. Slight variations in the dimensions specified will be allowed.

Note: Reinforced concrete pipe extensions are based on the surveyed end of pipe. Replacement of any additional pipe length required due to the removal of the existing end section will not be paid for directly, but will be subsidiary to the bid item "Removal of Existing Structures".

4	5-17-13	Added Note, Pipe Extensions Subsidiary	S.W.K.	J.O.B.
3	4-18-08	Added ref. to KDOT Pipe Policy	S.W.K.	J.O.B.
2	4-6-05	Revised reinforcement callout	S.W.K.	J.O.B.
1	6-16-95	Revised table & labeling	R.J.S.	J.O.B.

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
CONCRETE END SECTION FOR REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE TYPE I				
RD663				
FHWA APPROVAL		9-4-14	APP'D, Jame O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED Bowser	
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK. King	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	25	69

CONCRETE PAVEMENT (AE)					
LOCATION	SIDE	QUANTITY (SQ. YDS.)			REMARKS
		CONC. PVMT 6" UNIFORM	CONC. PVMT 8" UNIFORM	CONC. PVMT 10" UNIFORM	
180+09.95	Rt.		47.6		Curbed Comm. Ent.
180+70.83	Lt.		65.4		Flared Comm. Ent.
180+78.83	Rt.	16.5			Flared Alley Entrance
180+79.12	C.L.			4.0	Concrete Manhole Collar
182+53.90	Lt.		92.1		3rd Avenue Intersection
182+68.63	Rt.		87.8		3rd Avenue Intersection
183+11.54	Lt.	28.1			Flared Resid. Ent.
183+56.13	Lt.	28.1			Flared Resid. Ent.
183+73.75	Rt.	25.8			Flared Resid. Ent.
183+88.80	Lt.		21.8		Flared Comm. Ent.
184+41.72	Rt.	13.4			Resid. Entrance
184+56.26	Rt.	18.4			Flared Alley Entrance
184+57.48	C.L.			4.0	Concrete Manhole Collar
185+06.31	Rt.	24.0			Flared Resid. Ent.
185+42.95	Lt.	8.8			Flared Resid. Ent.
186+22.36	Lt.	11.7			Flared Resid. Ent.
186+45.75	Lt.	8.3			Flared Resid. Ent.
186+50.00	Rt.		85.3		2nd Avenue Intersection
187+55.36	Lt.		65.2		Curbed Comm. Ent. (Patriots Bank)
187+95.74	Rt.		59.6		Curbed Comm. Ent. (Wise Auto)
188+25.54	Lt.		19.0		Curbed Comm. Ent. (Patriots Bank)
188+32.26	Rt.	16.3			Flared Alley Entrance
188+34.38	C.L.			4.0	Concrete Manhole Collar
188+71.31	Rt.		44.3		Curbed Comm. Ent. (Askins Beller Liquor)
189+37.39	Rt.		48.3		Curbed Comm. Ent. (Askins Beller Liquor)
189+53.71	C.L.			4.0	Concrete Manhole Collar
189+63.85	Lt.		72.8		1st Avenue Intersection
190+19.74	C.L.			4.0	Concrete Manhole Collar
190+24.51	Rt.		86.0		1st Avenue Intersection
191+14.43	Lt.	27.1			Flared Comm. Ent.
191+14.43	Rt.		34.7		Curbed Comm. Ent. (Car Wash)
191+65.30	Rt.		35.6		Curbed Comm. Ent. (Car Wash)
191+79.61	Lt.	18.8			Flared Comm. Ent.
192+15.47	Rt.		36.8		Curbed Comm. Ent. (Sonic)
192+75.59	Rt.		36.8		Curbed Comm. Ent. (Sonic)
193+14.10	C.L.			4.0	Concrete Manhole Collar
193+56.71	Lt.		71.8		Curbed Comm. Ent. (Subway)
194+21.26	Rt.		80.1		Curbed Comm. Ent. (Garnett State bank)
TOTAL =		245.3	1,091.0	24.0	

REMOVAL OF EXISTING STRUCTURES		
LOCATION	SIDE	REMARKS
179+37	Rt.	Curb Inlet & 135 Lin. Ft. of 2'x2' RCB
180+73	Rt.	Curb Inlet & 172 Lin. Ft. of 8" PVC Storm Sewer
189+82	Rt.	Area Inlet & 80 Lin. Ft. of 2'x2' RCB
190+60	Rt.	Curb Inlet & 242 Lin. Ft. of 30" RCP Storm Sewer
191+63	Lt.	Curb Inlet & 24 Lin. Ft. of 24" RCP Storm Sewer
191+95	Lt.	Possible Buried Manhole & 15 Lin. Ft. of 24" RCP Storm Sewer
193+05	Rt.	Storm Junction Box/Manhole & 136 Lin. Ft. of 36" RCP Storm Sewer
On the Project		Traffic sign posts and footing (signs to be reinstalled)

The schedule for "Removal of Existing Structures" is for information only and may not be complete. Payment for structures or obstructions not listed but whose removal is required by construction, as determined by the Engineer, shall not be paid for separately, but shall be included in the bid item "Removal of Existing Structures".

DRAINAGE STRUCTURES, STORM SEWER, AND PIPES																		
LOCATION	SIDE	STRUCTURES (EACH)			STORM SEWER (LIN. FT.)						ENTRANCE PIPE (LIN. FT.)			END SECTIONS (EACH)			FLOWABLE FILL (CU. YDS.)	REMARKS
		INLET	JUNCTION BOX	MANHOLE (REINF.)	RCP				RCPHE	RCP or PE	CAP or RCP			CA or RC				
					15"	18"	24"	30"	7.0 s.f.	10.0 s.f.	24"	12"	18"	24"	12"	18"		
179+40.00	Rt.	1						176									29	Flowable Fill for Pipe Removal
180+10.00	Lt.	1			197													
181+15.00	Rt.	1					92											
182+15.00	Lt.	1				44											5	
182+15.00	Rt.	1						176									5	
184+00.00	Rt.	1						190										
186+00.00	Rt.	1						100									5	
187+10.00	Lt.	1			44												3	
187+10.00	Rt.	1						186										4"x8' Opening in Back
189+05.00	Rt.	1							152									
190+65.00	Rt.	1								230								
193+03.00	Rt.	1					4			138								
190+25.00	Lt.	1				176												4"x8' Opening in Back
192+10.00	Lt.	1					8				177							
193+95.00	Lt.	1									12							
TOTALS =		15			241	220	280	652	152	368	189						47	

EARTHWORK									
LOCATION	EXCAVATION					COMPACTION			
	COMMON		ROCK		CONTR.	FURN.	TYPE AA (MR-)	TYPE A (MR-)	TYPE B (MR-90)
	CU. YDS.		CU. YDS.	VMF	CU. YDS.	VMF	CU. YDS.	CU. YDS.	CU. YDS.
Maple Street (US-59	225	0.83	460	1.00					50
TOTALS =	225		460						50
NOTES									
1. Volume Modification Factors (VMF's) are assumed.									
2. Rock Excavation has been estimated based on an average thickness of 8-inches for Commercial Driveways, 6-inches for Residential Driveways, and 12-inches thick for US-59 pavement. Rock Excavation shall be disposed of by the Contractor on sites provided by the Contractor.									

COMBINED CURB AND GUTTER (AE)				
LOCATION	SIDE	LIN. FT.		REMARKS
		Type I	Type II	
179+91 to SW Return 3rd Ave	Lt.	159.1	105.0	
NW Return 3rd Ave to Ent. 187+55.36	Lt.	374.5	131.0	
Ent. 187+55.36 to Ent. 188+25.54	Lt.	61.2		
Ent. 188+25.54 to SW Return 1st Ave	Lt.	138.0		
NW Return 1st Ave to Ent. 193+56.71	Lt.	314.8	70.2	
Ent. 193+56.71 to END	Lt.	92.7	20.0	
179+29.11 to Ent. 180+09.95	Rt.	74.2		
Ent. 180+09.95 to SE Return 3rd Ave	Rt.	218.7	30.0	Includes SE Curb Return
NE Return 3rd Ave to SE Return 2nd Ave	Rt.	293.0	81.2	Includes Curb Returns
NE Return 2nd Ave to Ent. 187+95.74	Rt.	127.2	6.0	Includes NE Curb Return
Ent. 187+95.74 to Ent. 188+71.31	Rt.	40.6	23.4	
Ent. 188+71.31 to Ent. 189+37.39	Rt.	54.8	11.0	
Ent. 189+37.39 to SE Return 1st Ave	Rt.	79.5	11.5	Includes SE Curb Return
NE Return 1st Ave to Ent. 191+14.43	Rt.	75.6	6.0	Includes NE Curb Return
Ent. 191+14.43 to Ent. 191+65.30	Rt.	37.7		
Ent. 191+65.30 to Ent. 192+15.47	Rt.	32.6		
Ent. 192+15.47 to Ent. 192+75.59	Rt.	38.1		
Ent. 192+75.59 to Ent. 194+21.26	Rt.	134.6	5.5	
Ent. 192+75.59 to END	Rt.	56.6	4.6	
TOTALS =		2,403.5	505.4	

ADJUSTMENT OF WATER VALVE BOX, WATER METER BOX, AND MANHOLE					
LOCATION	SIDE	ADJUST (EACH)			REMARKS
		WATER VALVE BOX	WATER METER BOX	MANHOLE	
180+79.12	C.L.			1	San Sewer MH
184+57.48	C.L.			1	San Sewer MH
188+34.38	C.L.			1	San Sewer MH
189+53.71	C.L.			1	San Sewer MH
190+19.74	C.L.			1	San Sewer MH
193+14.10	C.L.			1	San Sewer MH
	TOTAL =			6	

SIDEWALK CONSTRUCTION (AE)			
LOCATION	SIDE	QUANTITY (SQ. YDS.)	REMARKS
		4" SIDEWALK	
SW Cor. 3rd & Maple	Lt.	2.8	
SE Cor. 3rd & Maple	Rt.	11.6	
NE Cor. 3rd & Maple	Rt.	8.6	
SE Cor. 2nd & Maple	Rt.	11.1	
NE Cor. 2nd & Maple	Rt.	8.3	
188+45.00	Rt.	7.8	
189+00.00	Rt.	15.6	
189+80.00	Rt.	25.0	
NE Cor. 1st & Maple	Rt.	4.5	
193+50.00	Rt.	55.9	
NE Corner Country/Kansas	Rt.	4.4	
TOTAL =		155.6	

AGGREGATE BASE (AB-3)(6")			
LOCATION	SIDE	QUANTITY (Sq. Yds.)	REMARKS
179+91 to 182+19.40	Lt.	76.1	Under Curb and Gutter
3rd Avenue Intersection	Lt.	116.3	Under Apron & Curb Returns
182+88.40 to 189+31.85	Lt.	214.5	Under Curb and Gutter
1st Avenue Intersection	Lt.	93.6	Under Apron & Curb Returns
189+95.85 to 194+77.05	Lt.	160.4	Under Curb and Gutter
179+29.11 to 182+33.13	Rt.	101.3	Under Curb and Gutter
3rd Avenue Intersection	Rt.	112.0	Under Apron & Curb Returns
183+04.13 to 186+15	Rt.	103.6	Under Curb and Gutter
2nd Avenue Intersection	Rt.	108.8	Under Apron & Curb Returns
186+85 to 189+90	Rt.	101.7	Under Curb and Gutter
1st Avenue Intersection	Rt.	109.7	Under Apron & Curb Returns
190+60.40 to 194+77	Rt.	138.9	Under Curb and Gutter
TOTAL =		1,436.9	

PCCP PATCHING (FULL DEPTH)(UNBOUND)			
LOCATION	SIDE	9" (SQ. YDS.)	REMARKS
179+50.00	Rt.	22.4	For Removal of Exist. Storm Sewer
180+78.83	C.L.	24.0	For Storm Sewer X-ing US-59
180+79.12	C.L.	24.0	For Storm Sewer X-ing US-59
182+53.90	Lt.	3.3	For Connection to Exist. Storm Sewer
On the Project	Rt.	50.0	Contingency Quantity for Patches after Milling
TOTAL =		123.7	

SIDEWALK RAMP (AE)			
LOCATION	SIDE	QUANTITY (Sq. Yds.)	REMARKS
SW Cor. 3rd & Maple	Lt.	4.9	Curb Ramp (Type 1)
SE Cor. 3rd & Maple	Rt.	8.0	(2 each) Curb Ramp (Type 1)
NE Cor. 3rd & Maple	Rt.	4.3	Curb Ramp (Type 1)
SE Cor. 2nd & Maple	Rt.	3.8	Curb Ramp (Type 1)
NE Cor. 2nd & Maple	Rt.	4.4	Curb Ramp (Type 1)
188+55.00	Rt.	3.7	Curb Ramp (Type 1) - Omit Domes
188+85.00	Rt.	3.7	Curb Ramp (Type 1) - Omit Domes
189+20.00	Rt.	3.7	Curb Ramp (Type 1) - Omit Domes
189+52.00	Rt.	3.7	Curb Ramp (Type 1) - Omit Domes
SE Cor. 1st & Maple	Rt.	4.4	Curb Ramp (Type 1)
NE Cor. 1st & Maple	Rt.	4.4	Curb Ramp (Type 1)
193+00.00	Rt.	4.9	Curb Ramp (Type 1) - Omit Domes
194+00.00	Rt.	3.8	Curb Ramp (Type 1) - Omit Domes
194+43.00	Rt.	3.2	Curb Ramp (Type 1) - Omit Domes
TOTAL =		60.9	

RECAPITULATION OF ROAD QUANTITIES

ITEM	QUANTITY	UNIT
Contractor Construction Staking	Lump Sum	Lump Sum
Field Office and Laboratory (Type A)	1	Each
Foundation Stabilization (Set Price)	1	Cu. Yd.
Mobilization	Lump Sum	Lump Sum
Mobilization (DBE)	Lump Sum	Lump Sum
Removal of Existing Structures	Lump Sum	Lump Sum
Clearing and Grubbing	Lump Sum	Lump Sum
Common Excavation (Urb)	225	Cu. Yd.
Rock Excavation	460	Cu. Yd.
Compaction of Earthwork (Type B)(MR-90)	50	Cu. Yd.
Water (Grading)(Set Price)	1	M. Gal.
Inlet (Curb)(Setback)	15	Each
Curb and Gutter, Combined (AE)	1,455	Lin. Ft.
Storm Sewer (15")(RCP)	241	Lin. Ft.
Storm Sewer (18")(RCP)	220	Lin. Ft.
Storm Sewer (24")(RCP)	280	Lin. Ft.
Storm Sewer (24")	189	Lin. Ft.
Storm Sewer (30")(RCP)	652	Lin. Ft.
Storm Sewer (7.0 s.f.)(RCPHE)	152	Lin. Ft.
Storm Sewer (10.0 s.f.)(RCPHE)	368	Lin. Ft.
Flowable Fill (Low Strength)	47	Cu. Yd.
Sidewalk Construction (4")(AE)	156	Sq. Yd.
Sidewalk Ramp	61	Sq. Yd.
Concrete Pavement (6" Uniform)(AE)	245	Sq. Yd.
Concrete Pavement (8" Uniform)(AE)	1,091	Sq. Yd.
Concrete Pavement (10" Uniform)(AE)	24	Sq. Yd.
PCCP Patching (Full Depth)(9")(Unsound)	124	Sq. Yd.
Aggregate Base (AB-3)(6")	1,437	Sq. Yd.
Water (Aggregate Base)(Set Price)	1	M. Gal.
Adjustment of Manhole	6	Each
Adjustment of Meter Box (Water)	x	Each
Adjustment of Valve Box (Water)	x	Each

For Surfacing Quantities, see Sheet 26
For Temporary Erosion and Pollution Control Quantities, see Sheet 27
For Permanent Seeding Quantities, see Sheet 36
For Pavement Marking Quantities, see Sheet 41
For Permanent Signing Quantities, see Sheet 47
For Traffic Control Quantities, see Sheet 63

2	1-14-08	Rem. Drainage Structure summary	S.W.K.	J.O.B.
1	1-9-91	Detailed on CADD	R.J.S	J.O.B.
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
SUMMARY OF QUANTITIES				
RD050				
FHWA APPROVAL 5-28-08		APP'D. James_O_Brewer		
DESIGNED _____	DETAILED _____	QUANTITIES _____	TRACED B.N.B.	
DESIGN CK. _____	DETAIL CK. _____	QUAN.CK. _____	TRACE CK S.W.K.	

GENERAL NOTE:

On surfacing projects, the 6" of Compaction Type AA, shown for the center portion on the roadbed, is for the purpose of restoring the original Compaction Type AA which may have been lost since grading operations. The exact locations of this Compaction Type AA, which will be required, is to be determined by the Engineer at the time of construction. This work shall be paid under the bid item "Compaction of Earthwork (Type AA)(MR)-".

Over all structures, unless otherwise directed by the Engineer, where the top of the hubguard is level with or above the finished shoulder grade, the earth cover over the structure slab shall be removed and backfilled with _____ material as directed by the Engineer. The removal of this material will be subsidiary.

~~_____ The _____ material used to backfill over the structure shall be paid for at the prices shown in the contract.~~

~~The earth shoulders shall be compacted full depth (Type MR) except, when ordered by the Engineer, the top 3" shall be left uncompacted for seeding.~~

~~All side roads and house entrances shall be surfaced with _____~~

to the R/W line as indicated on the detail. All side roads and house entrances with existing asphalt surface shall be surfaced with _____ at least to the

R/W line or to the end of construction, as directed by the Engineer. Each mailbox _____
turnout (ON PROJECTS WHERE STABILIZED SHOULDERS ARE NOT SPECIFIED) shall be surfaced
with _____ to the limits shown on the detail.

Surfacing material (SA-_____) shall be used for surfacing house entrances and side roads (____ C.Y./SQ. YD.) beyond the limits of the asphalt surface to the limits of construction as determined by the Engineer.

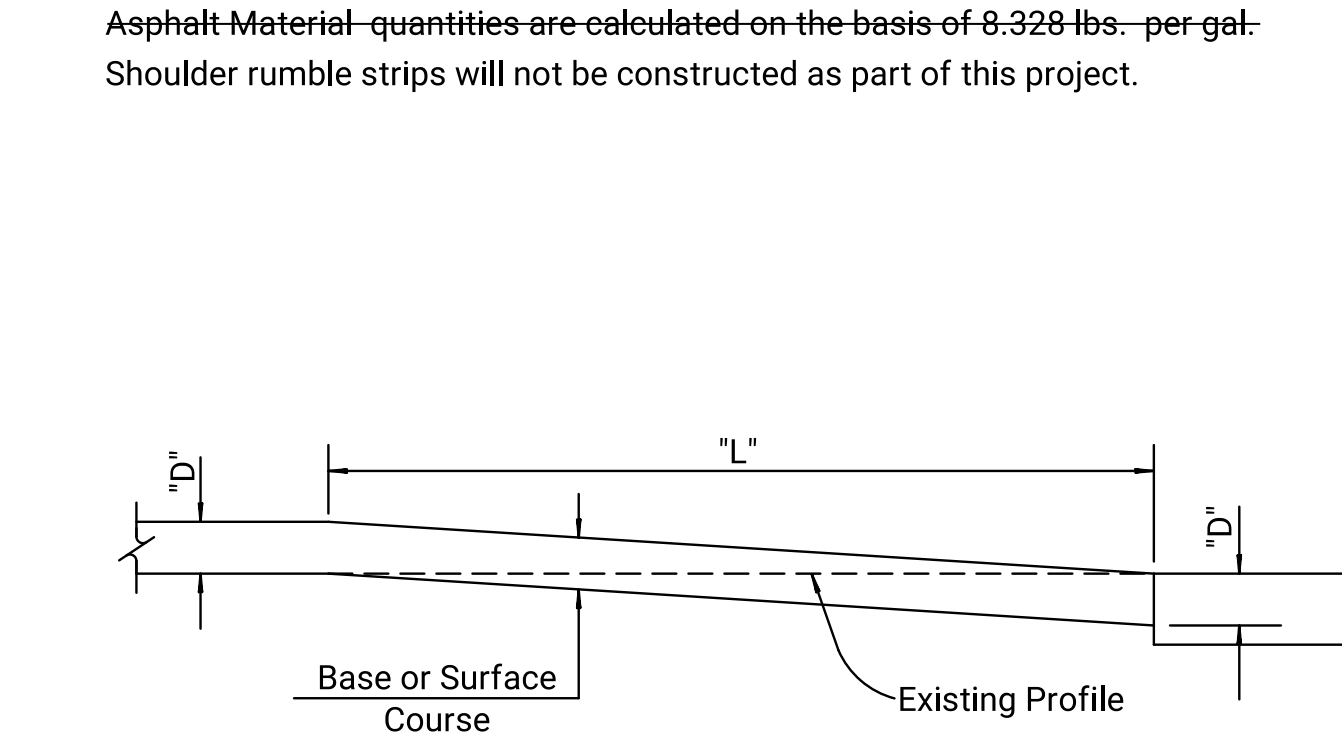
The thickness of side road and entrance surfacing may be increased to the same thickness as the stabilized shoulder within the approximate limits of the shoulder.

On projects which specify both asphalt base and surface course materials, side roads, house entrances and mailbox turnouts may be surfaced with both materials at the contractors option, with the approval of the Engineer.

Quantities for aggregate for shoulders, AS-1, are calculated on the basis of 150 lbs. per cu. ft. Quantities for stabilized base course, AB-3, are calculated on the basis of 1 56 lbs. per cu. ft. Weight/cu. ft. includes moisture allowed by specification.

The base course shall be constructed to the plan thickness as shown. Thicknesses indicated for all construction which is paid for on a weight or volume basis are approximate and may vary to correct for unevenness in the foundations or for other normal unevenness encountered in placement operations.

A tack coat of SS-1HP shall be provided between each lift of all base courses and surface courses and under the first lift of base or surface courses when they are placed on an existing asphalt, brick, or concrete surface, when so ordered by the Engineer and at the rate designated by him. Quantities are included for these tacks - ~~calculated at the rate of 0.06 gal./sq. yd.~~



TYPICAL PROFILE AT GRADE CONTROL POINTS

The Contractor shall cut the subgrade in accordance with this profile at all grade control points, i.e. ; existing pavements, grade bridges and R.R. crossings, also at changes in thickness of base or surface courses. Corresponding dimensions of "D" and "L" shall be as given in the table below.

The work of cutting the subgrade and disposing of excess excavated material shall be subsidiary to other items in the contract.

TABLE OF DIMENSIONS											
D	L	D	L	D	L	D	L	D	L	D	L
1"	25'	3"	75'	5"	125'	7"	175'	9"	225'	11"	275'
2"	50'	4"	100'	6"	150'	8"	200'	10"	250'	12"	300'

[illegible]

COMPUTED AT THE RATE OF 145 LBS. PER CU. FT.

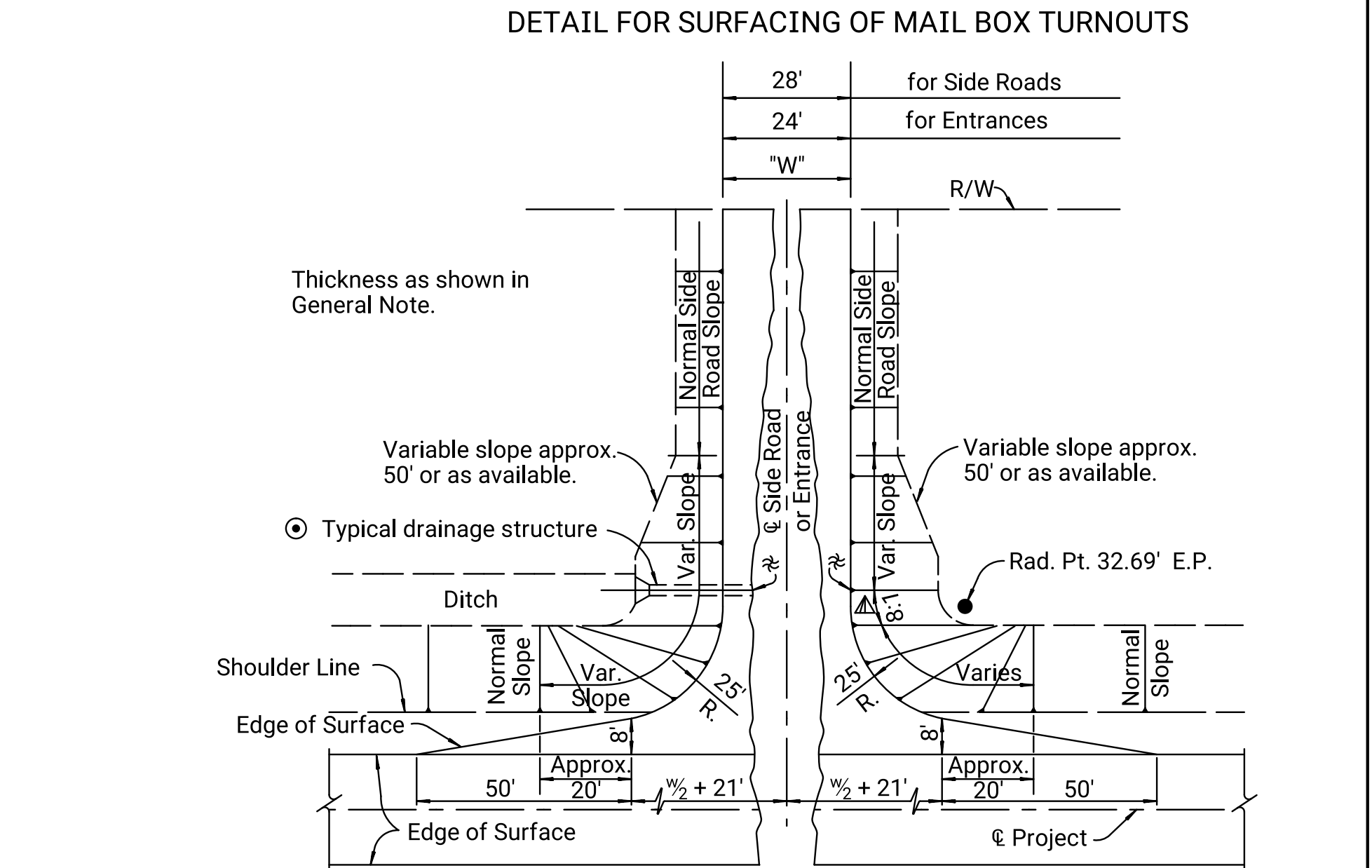
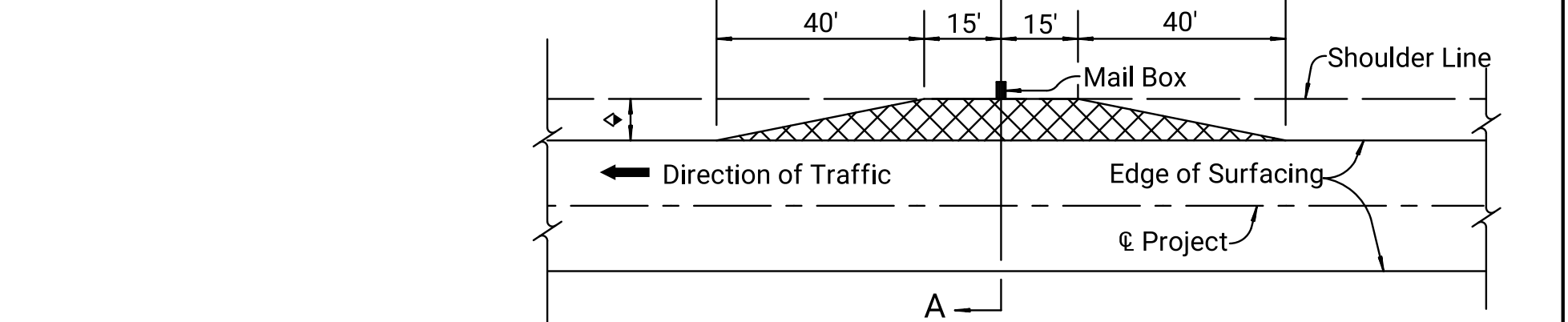
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the rate of
the rate of

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	26	69

◆ Width shall be 8' or shoulder width, whichever is greater.

Note: The face of Mail Box should be no closer to the roadway than the edge of the shoulder. Align with edge of turnout when turnout width is greater than shoulder width.



WITH DRAINAGE STRUCTURE MOUND ENTRANCE OR SIDE ROAD

DETAIL FOR SURFACING OF SIDE ROADS & HOUSE ENTRANCES

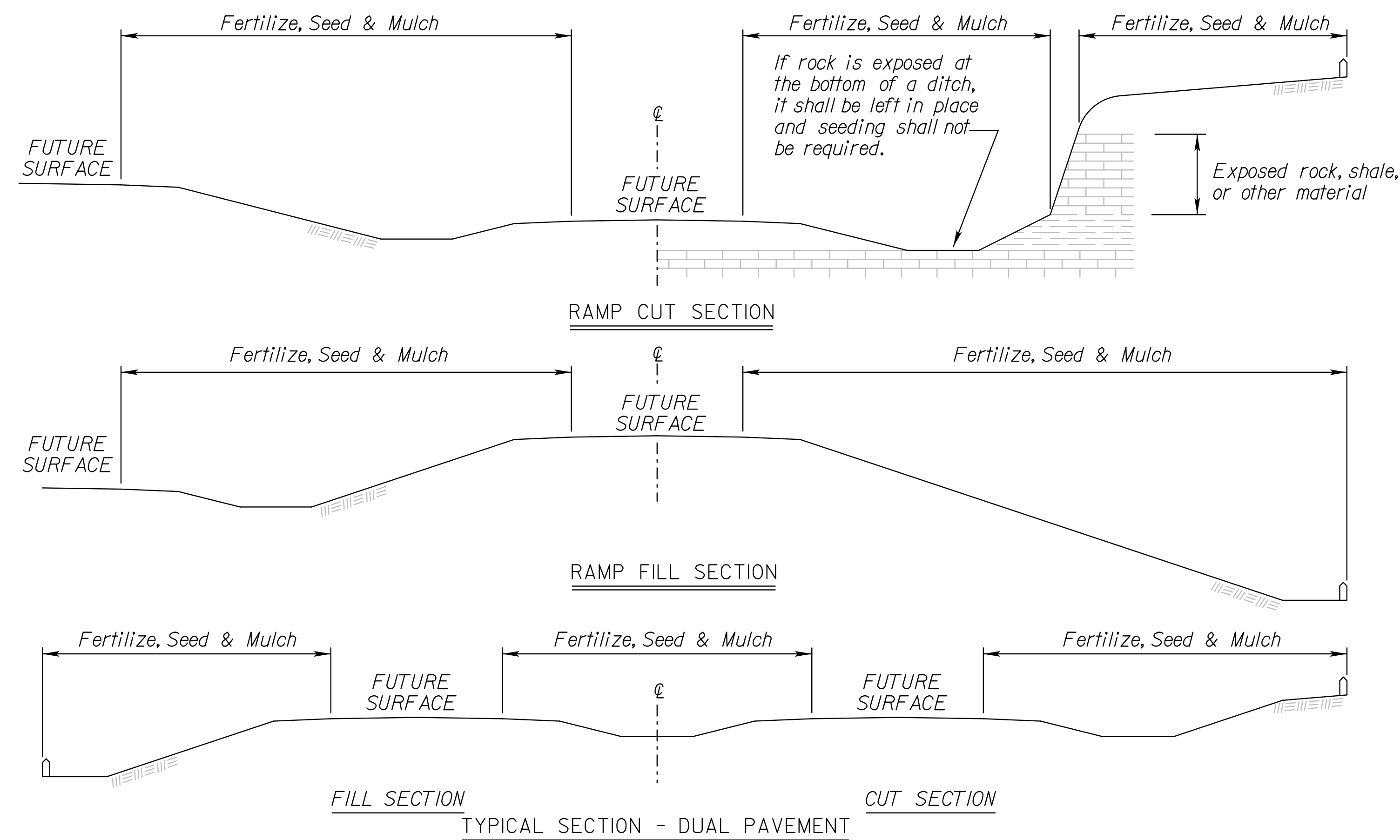
QUANTITIES			
		TOTAL	UNIT
		6,831	SQ. YD.
		1,325	TON
		150	TON

▲ 8:1 Slope at the appropriate clear zone shall apply to all mound entrances and mound side roads to 10' fill height. Normal Slope (but not steeper than 6:1) for over 10' fill height.

[illegible][illegible][illegible]

KDOT Graphics Certified 07-20-2021

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	27	69



FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P₂O₅, K₂O listed in Summary of Quantities will be acceptable.

- * - N = Nitrogen Rate of Application
 ** - P₂O₅ = Phosphorous Rate of Application
 *** - K₂O = Potassium Rate of Application

The Contractor will be required to finish areas of excavation, borrow and embankment in accordance with the specifications. Areas that require installation or construction of temporary water pollution control items will be finished in reasonable close conformity to the alignment, grade and cross section shown on the plans or as established by the Engineer.

CLT = Construction Limit Tract. This area is defined by the entire disturbed area of the project that requires seeding and erosion control measures to be placed. Any impervious areas (i.e. pavement, gravel, riprap, etc.) shall not be included in this measurement.

Slope = Defined by the area of the project that requires Class 1 erosion control material to be placed. This area shall be seeded using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if drilling is not possible.

Channel = Defined by the area of the project that requires Class 2 erosion control material to be placed. This area shall be seeded using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if drilling is not possible.

GENERAL NOTES

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications.

Temporary seeding shall be done during any time of the year that the soil can be cultivated. After the temporary seeding has been completed on the entire project, permanent seeding shall be done during the normal seeding season.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching materials is generally as follows:

$1\frac{3}{4} - 2\frac{1}{4}$ Tons per Acre = $1\frac{1}{2}$ " loose depth spread uniformly over acre.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

Other vegetative mulches are acceptable only with the Engineer's concurrence.

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

SUMMARY OF SEEDING / EROSION CONTROL QUANTITIES						
P.L.S. RATE/ ACRE		ACRES		BID ITEM	QUANTITY	UNIT
CLT	SL/CH	CLT	SL/CH			
100		0.8		Temporary Fertilizer (15-30-15)		LB
50		0.8		Temporary Seed (Annual Ryegrass)		LB
				Temporary Seed (Grain Oats)		LB
				Temporary Seed (Sterile Wheatgrass)		LB
				Soil Erosion Mix		LB
				Erosion Control(Class 1, Type C)	1,450	SQ YD
				Erosion Control(Class 2, Type Y)		SQ YD
				Sediment Removal(Set Price)	1	CU YD
				Synthetic Sediment Barrier		LF
				Temporary Berm (Set Price)	1	LF
				Temporary Ditch Check (Rock)		CU YD
				Temporary Inlet Sediment Barrier		EACH
				Temporary Sediment Basin		CU YD
				Temporary Slope Drain		LF
				Temporary Stream Crossing		EACH
				Biodegradable Log (9")		LF
				Biodegradable Log (12")	500	LF
				Biodegradable Log (20")		LF
				Filter Sock (8")	150	LF
				Geotextile (Erosion Control)		SQ YD
				Silt Fence		LF
				SWPPP Design †		LS
				SWPPP Inspection †		EACH
				Water Pollution Control Manager †		EACH
900 lbs / acre				Mulch Tacking Slurry		LB
2 tons / acre		0.5		Mulching		TON
				Water (Erosion Control) (Set Price)	1	MGAL

NOTE: Projects less than 1 acre shall be bid as "Seeding" by the lump sum. See Permanent Seeding Summary of Seeding Quantities sheet LA850 for further details.

Geotextile (Erosion Control) shall be removed prior to placement of permanent slope protection.

Regreen and Quick Guard are the approved sterile wheatgrass products.

† If the total disturbed area of the project, not just the seeding area, is 1 acre or more, then these bid items must be included.

**** List size of material.

The amount of mulch and mulch tacking slurry in the bid quantities is estimated. (Acres of Seeding X 1.5 X 2 Tons/Acre). The estimated quantity includes mulching associated with both temporary and permanent seeding operations. The total mulch and mulch tacking slurry required shall be determined in the field. The bid item for mulching and mulch tacking slurry shall be paid for according to the Standard Specifications.

Quantities for all erosion control items are estimated to give full flexibility for compliance with the NPDES permit. Final quantities will be determined in the field.

[illegible]

The Soil Erosion Mix is to be placed under the Class 1 and/or Class 2 erosion control material.

The Soil Erosion Mix consists of the Shoulder Area of the Permanent Seed Mix used on the project.

3	08/03/20	Added Note	MRD	ML
2	12/01/17	Revised Standard	MRD	SHS
1	06/01/17	Revised Standard	MRD	SHS
NO.	DATE	REVISIONS	BY	APP'D
<p align="center">KANSAS DEPARTMENT OF TRANSPORTATION</p> <p align="center">TEMPORARY EROSION AND POLLUTION CONTROL</p>				
LA852A				
FHWA APPROVAL		1/26/2018	APP'D	Scott H. Shields
DESIGNED	MRD	DETAILED	MRD	QUANTITIES
DESIGN CK.	SHS	DETAIL CK.	SHS	CADD CK.
			CADD	CK.

Std. Base File:
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File: <i>la852a.dgn</i>
Plot Date: 18-DEC-2020 01:03

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	28	69

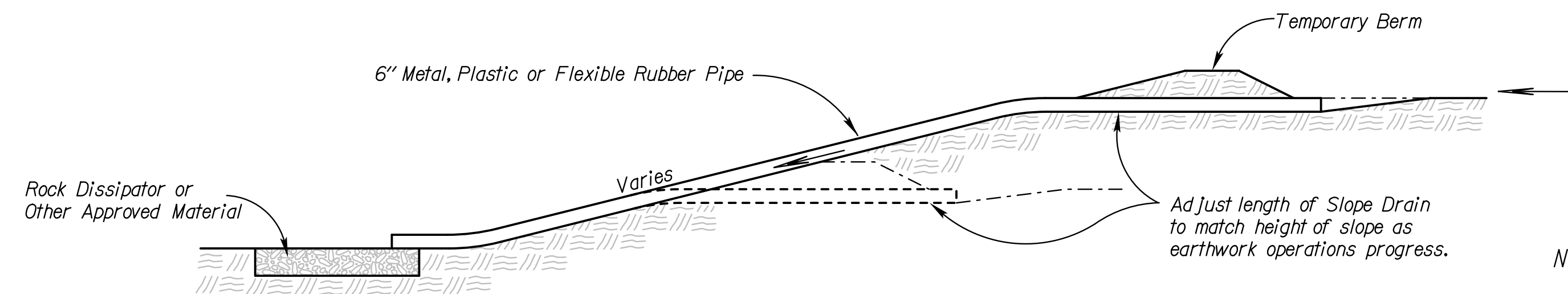
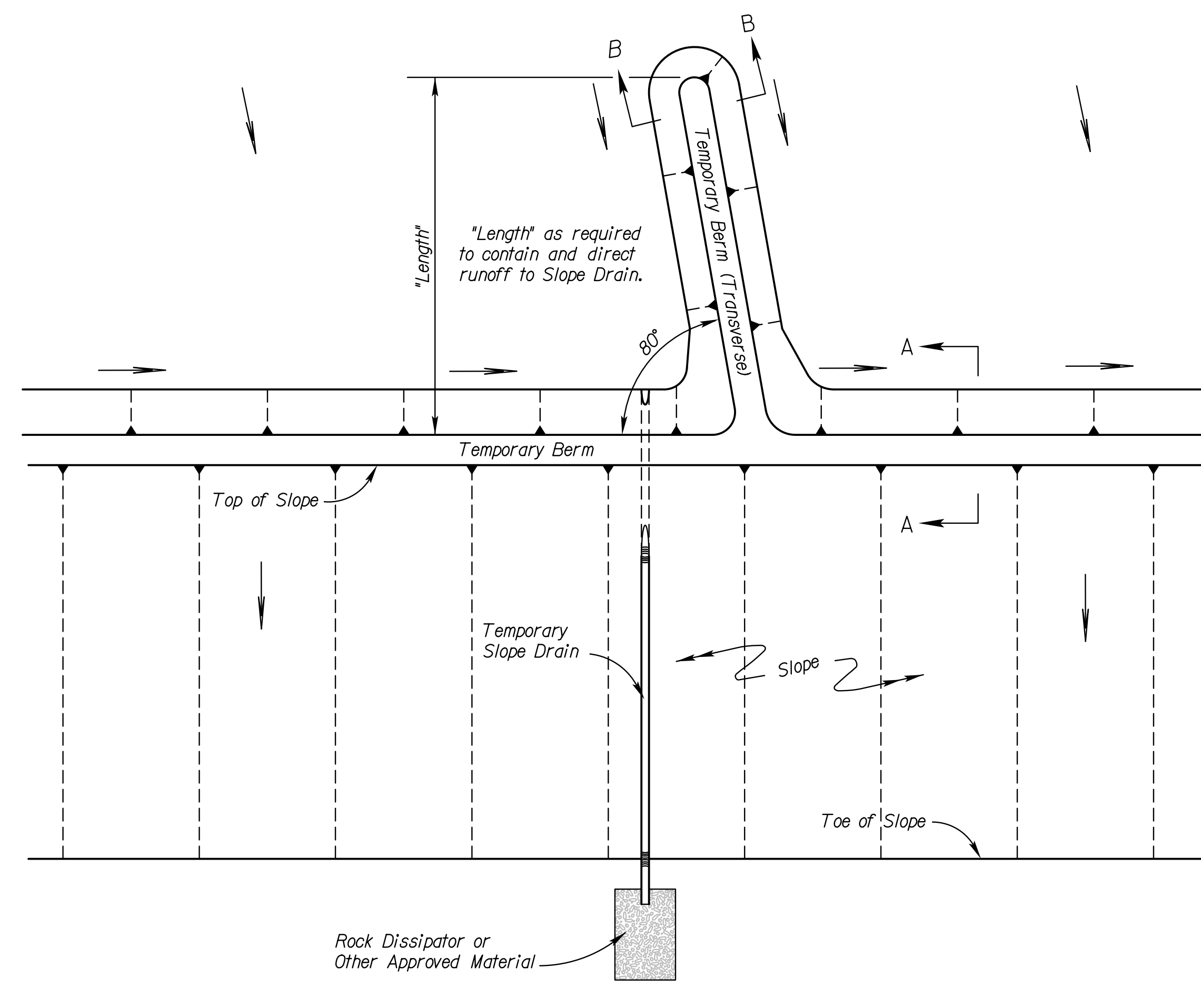
[illegible]

NOTE:
The quantity of Erosion Control (Class 1, Type C) tabulated on this sheet has been included for 0.3 acres of disturbed areas on the Project that are designated to be seeded and fertilized but would be better stabilized with Erosion Control blanket rather than Mulching. Contractor shall install Erosion Control at locations as directed by the Engineer.

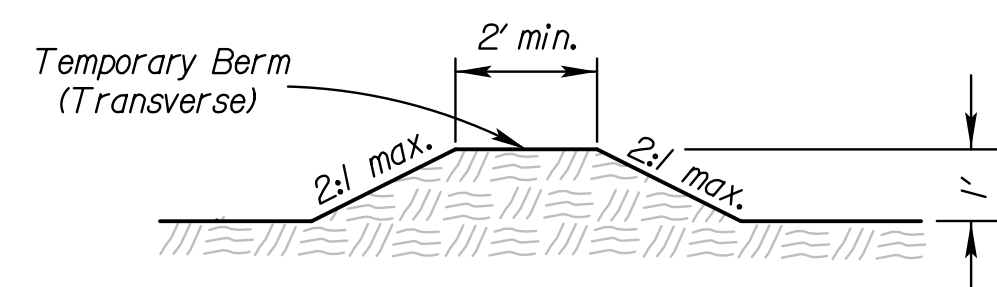
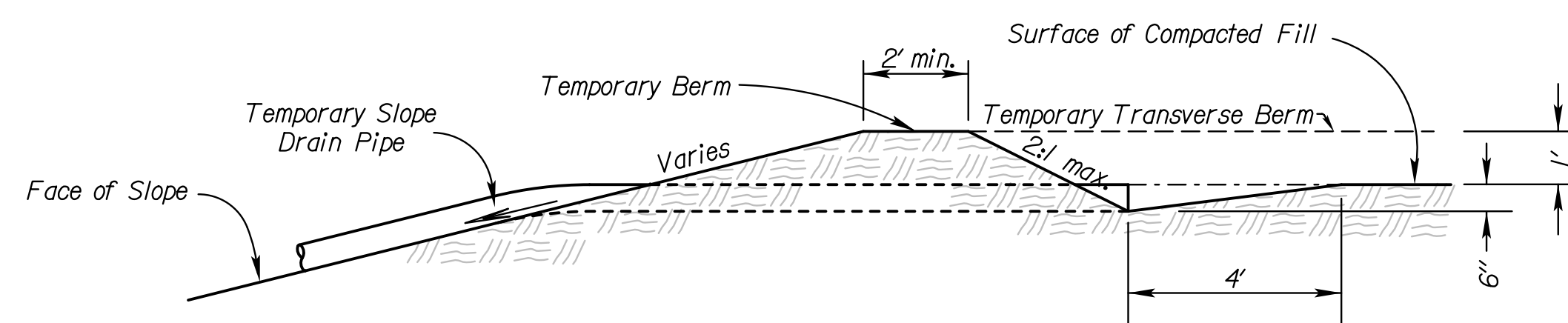
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Plot Date: 21-AUG-2020 18:45	

NO.	DATE	REVISIONS					BY	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION									
EROSION CONTROL SEEDING-SODDING									
LA852A-EC									
FHWA APPROVAL		1/04/2006		APP'D		Scott H. Shields			
DESIGNED	MRM	DETAILED	MRM	QUANTITIES	CADD	MRM			
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	CADD CK.	SHS			

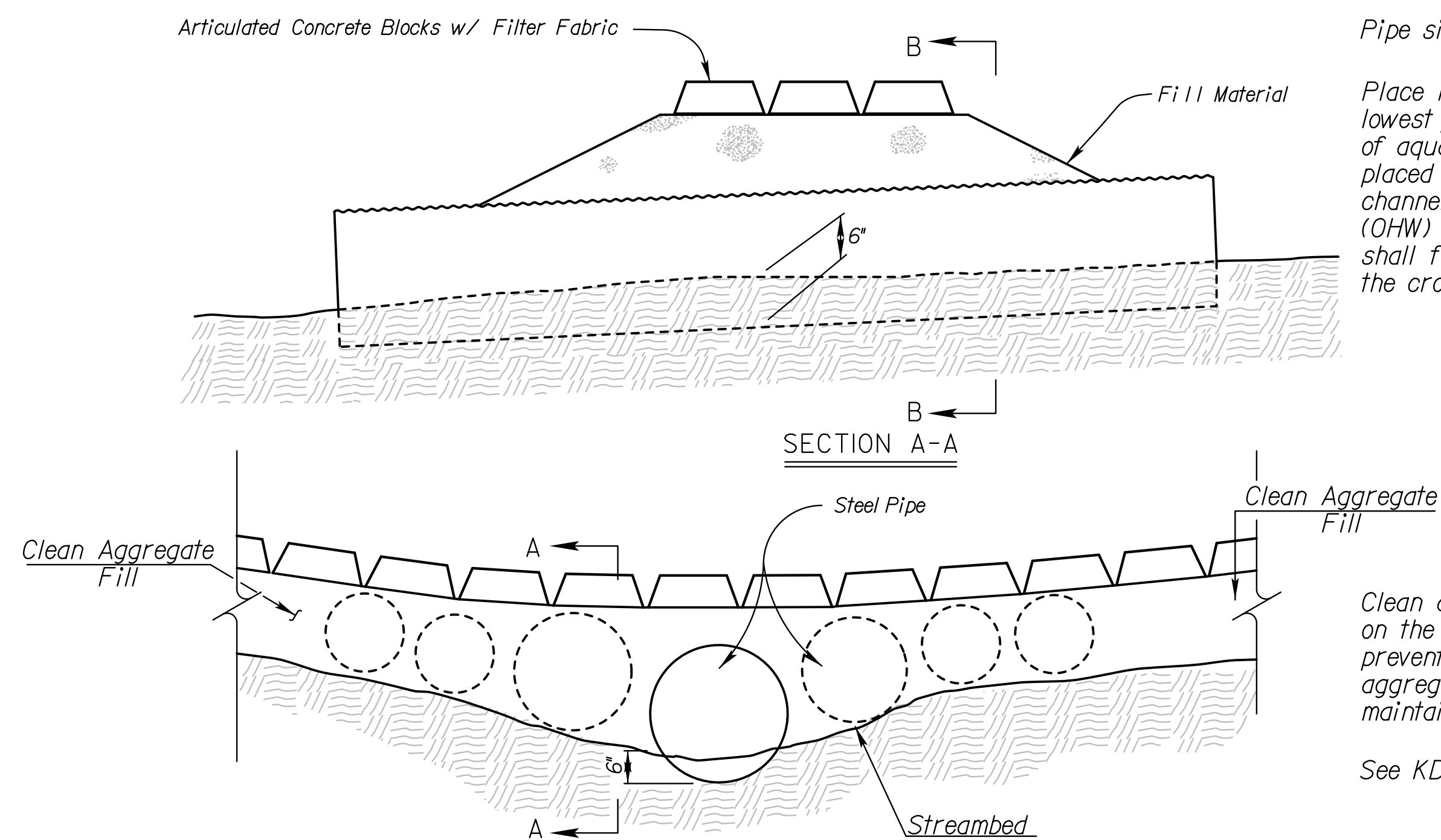
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	29	69



- NOTES:**
- 1) Temporary Slope Drain and Temporary Berm may be used on either project foreslopes or project backslopes.
 - 2) Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.
 - 3) Pipe shall be secured in place as approved by Engineer.
 - 4) Temporary Berms under 2,000 feet shall be bid by Set Price.



TYPICAL PROFILE OF TEMPORARY BERM
NO SCALE

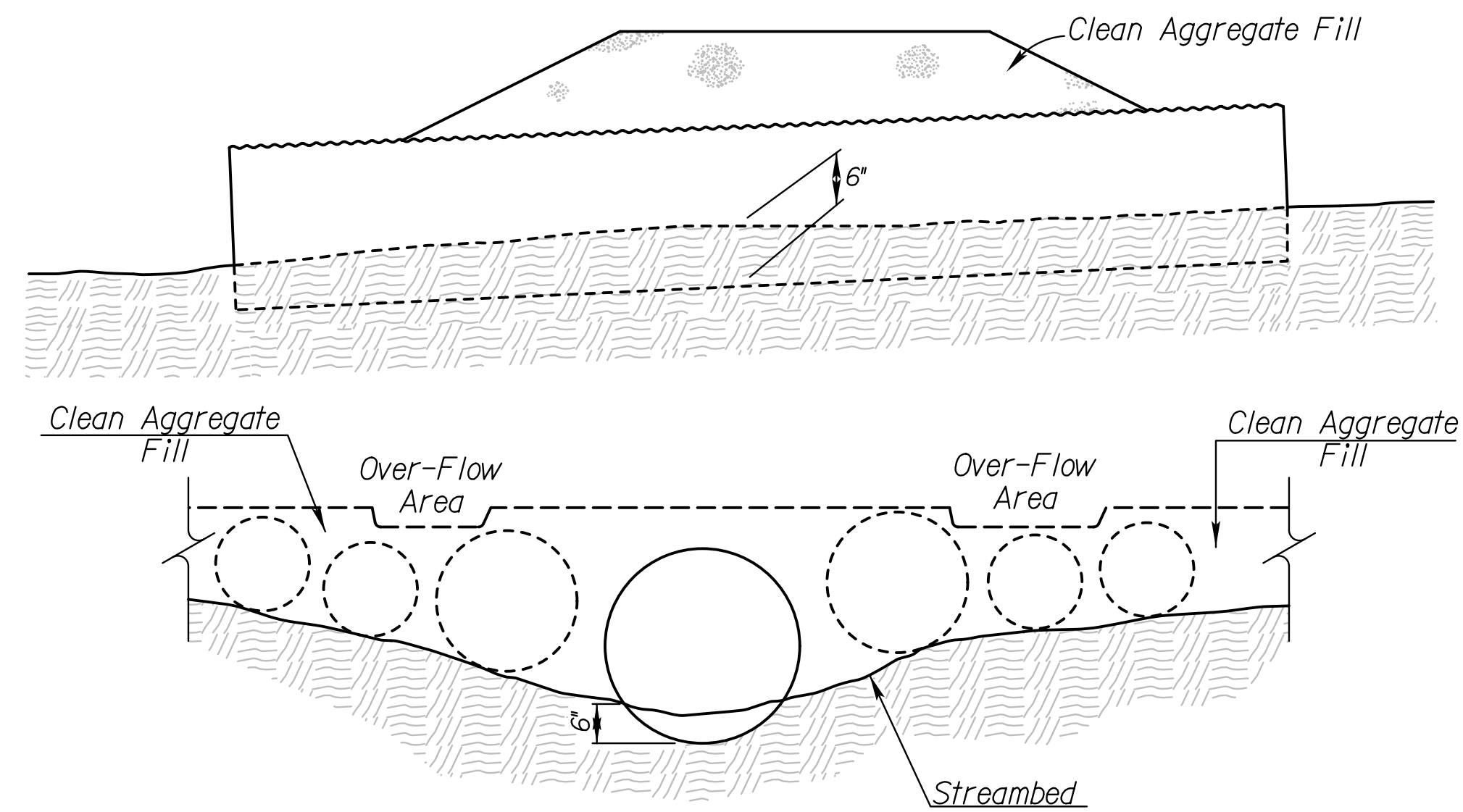


Pipe size may vary.

Place 1 pipe buried 6" into stream bottom, in the lowest point of the channel to allow the passage of aquatic organisms, with additional pipes placed along the remainder of the stream channel bottom such that ordinary high water (OHW) flows designated in the Contract Documents shall flow through the pipes without overtopping the crossing.

Clean aggregate fill will extend a minimum of 50' on the entrance and exit side of the crossing to prevent tracking. The aggregate shall be clean aggregate and a minimum of 6" thick and will be maintained through the use of the crossing.

See KDOT Specifications for more information.



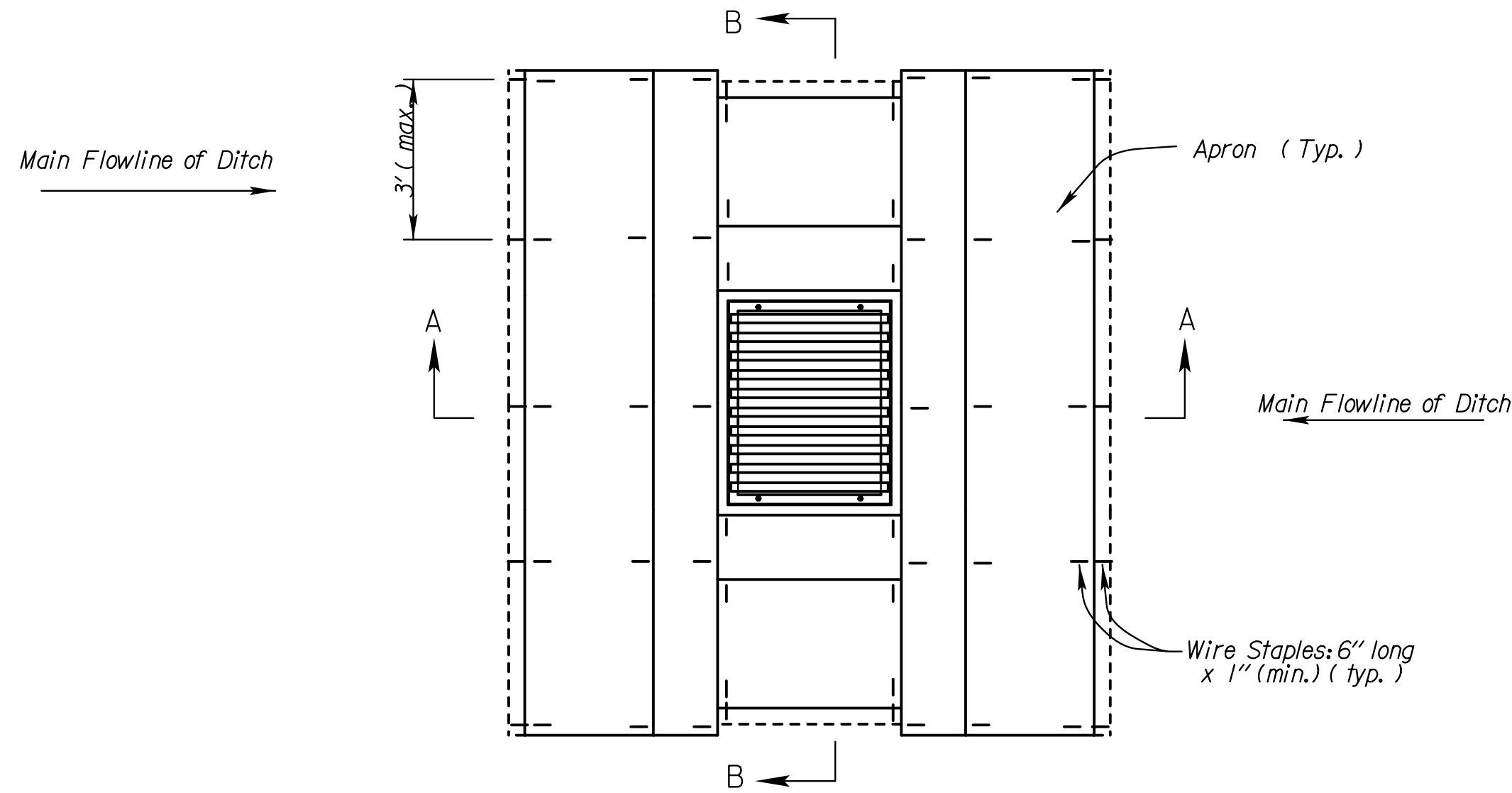
Pipe size may vary.

Place 1 pipe buried 6" into stream bottom, in the lowest point of the channel to allow the passage of aquatic organisms, with additional pipes placed along the remainder of the stream channel bottom such that ordinary high water (OHW) flows designated in the Contract Documents shall flow through the pipes without overtopping the crossing.

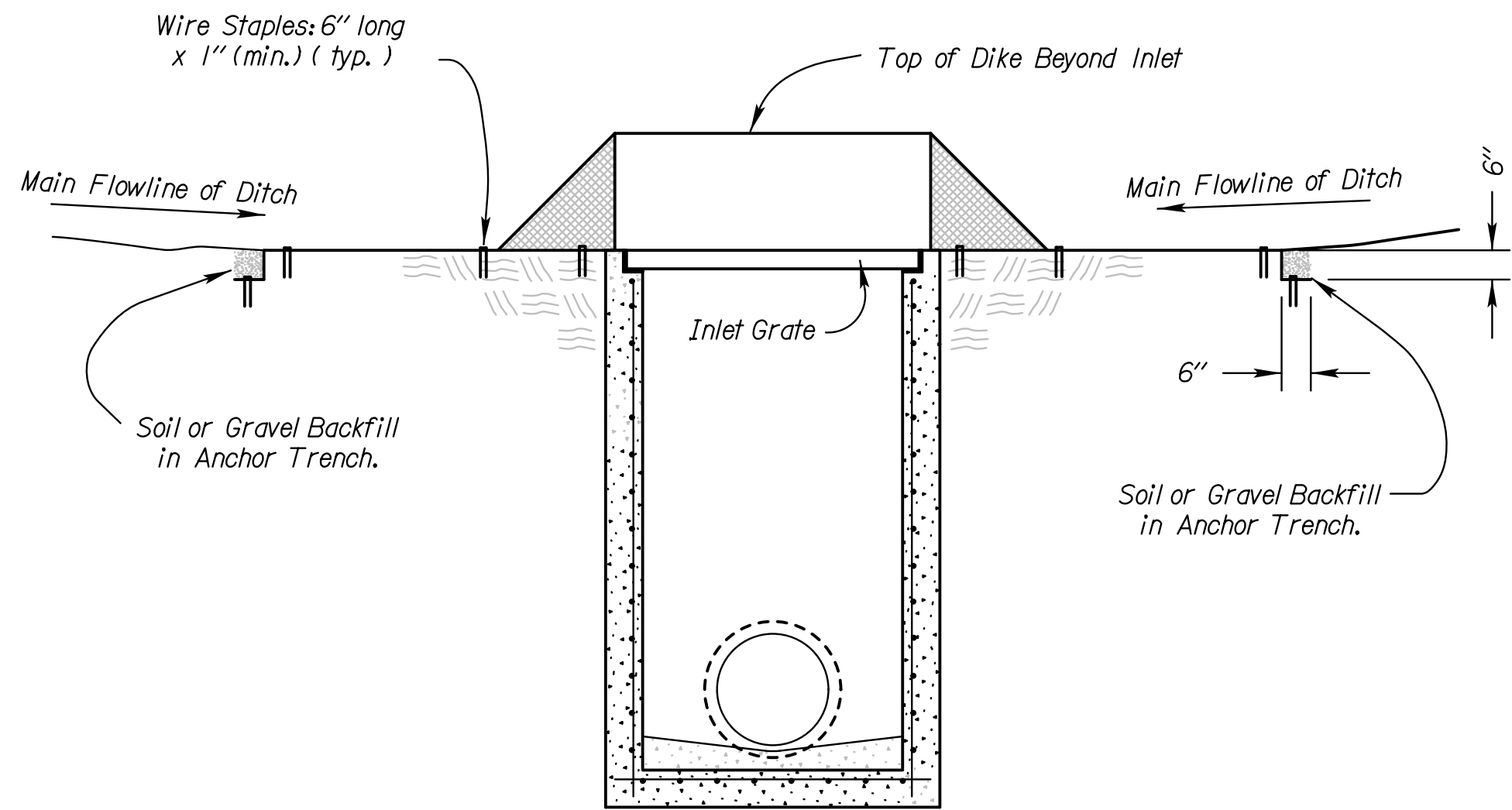
Clean aggregate fill will extend a minimum of 50' on the entrance and exit side of the crossing to prevent tracking. The aggregate shall be clean aggregate and a minimum of 6" thick and will be maintained through the use of the crossing.

See KDOT Specifications for more information.

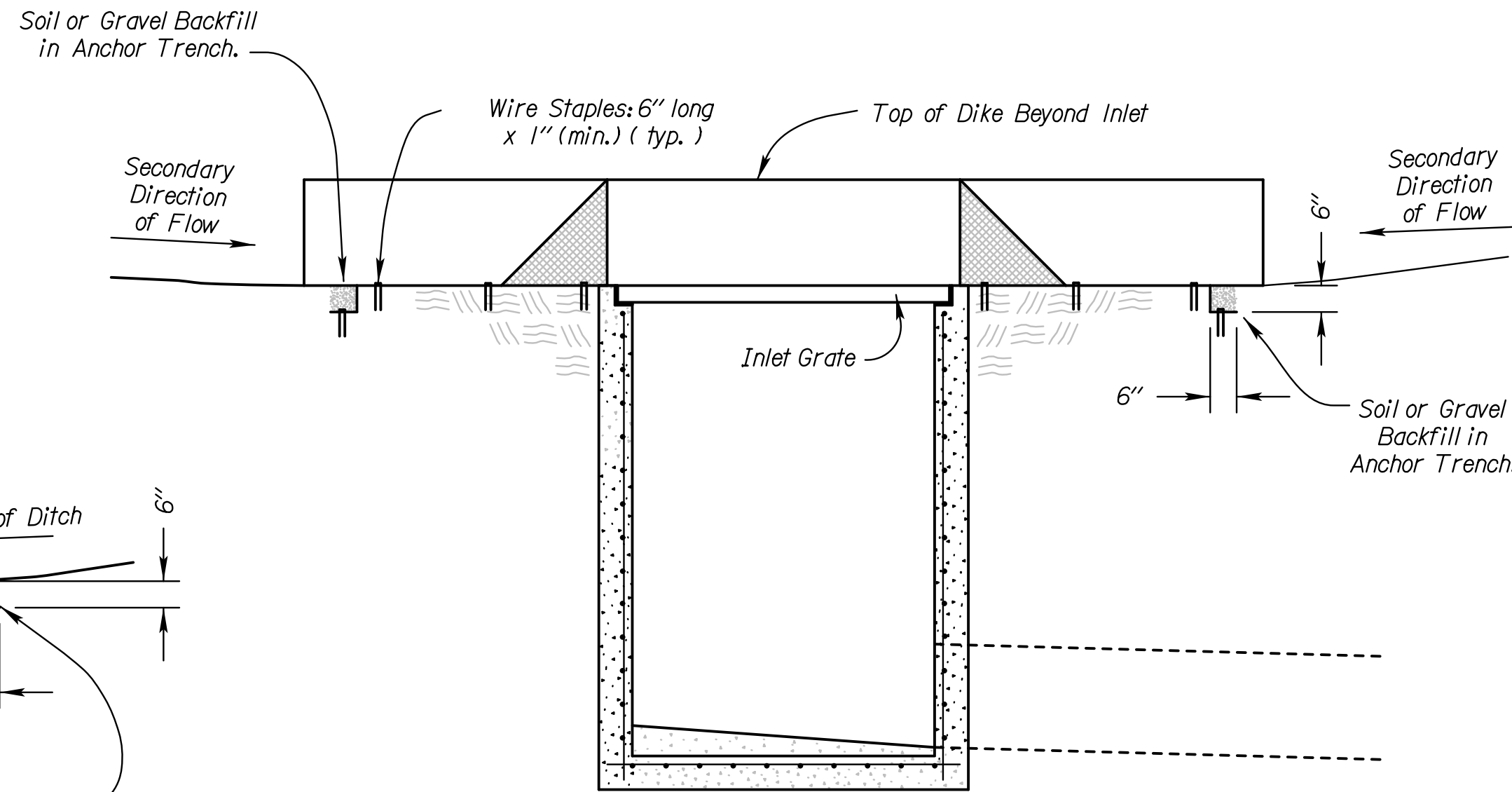
3	1/21/22	Temp Stream Crossing - Clean Aggregate Fill>Note Added	MRD	ML
2	8/24/21	Temp Stream Crossing - Clean Aggregate Fill>Note Added	MRD	ML
1	6/11/13	Revised Standard	MRM	SHS
NO.	DATE	REVISIONS	BY	APP'D
<p align="center">KANSAS DEPARTMENT OF TRANSPORTATION</p> <p align="center">TEMPORARY EROSION AND POLLUTION CONTROL</p> <p align="center">TEMPORARY SLOPE DRAIN</p> <p align="center">TEMPORARY STREAM CROSSING (AGGREGATE)</p> <p align="center">TEMP. STREAM CROSS. (ARTC. CONC. BLOCKS)</p> <p align="center">LA852B</p>				
FHWA APPROVAL		I/21/2022	APP'D	Mervin Lare
DESIGNED	ML	DETAILED	QUANTITIES	CADD
DESIGN CK.	ML	DETAIL CK.	QUAN.CK.	CADD CK.



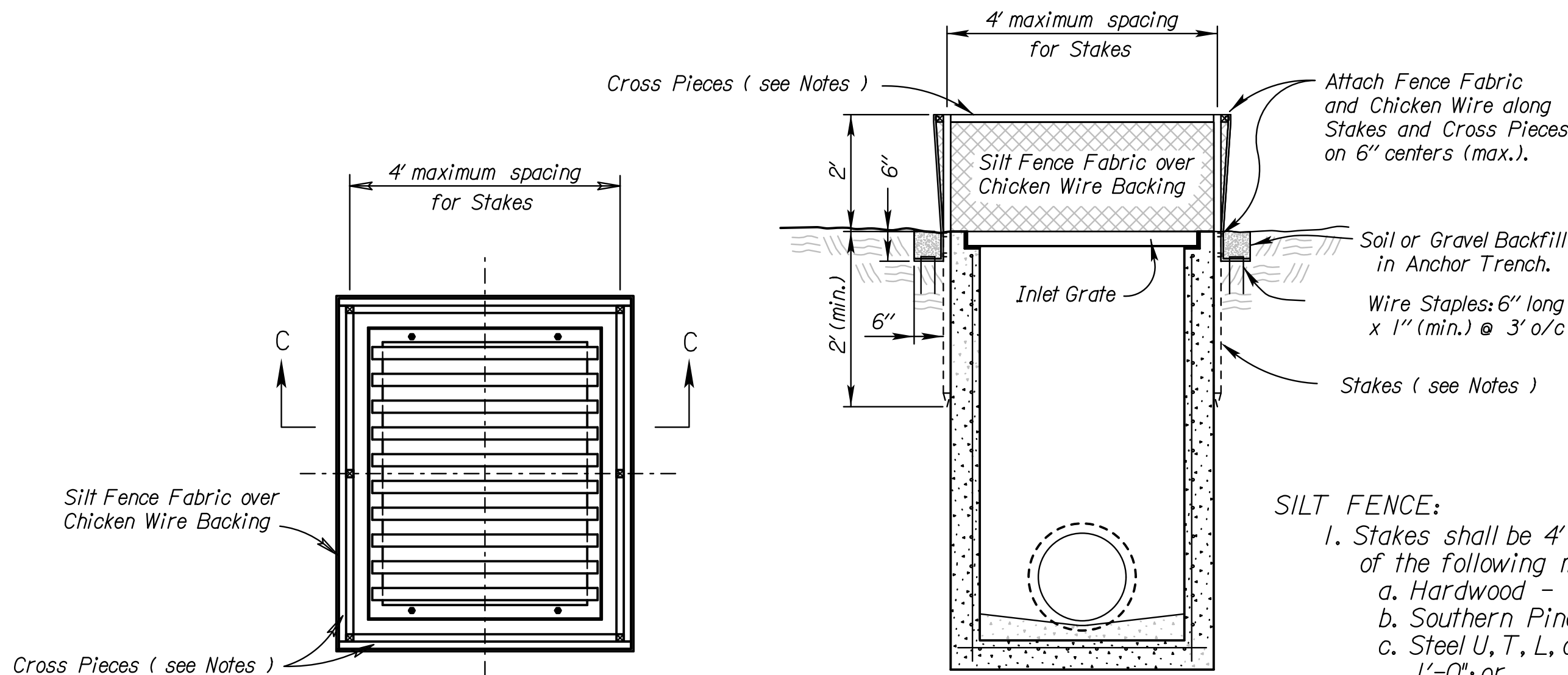
PLAN
TEMPORARY INLET SEDIMENT BARRIER
(TRIANGULAR SILT DIKE METHOD)
NO SCALE



SECTION A - A



SECTION B - B



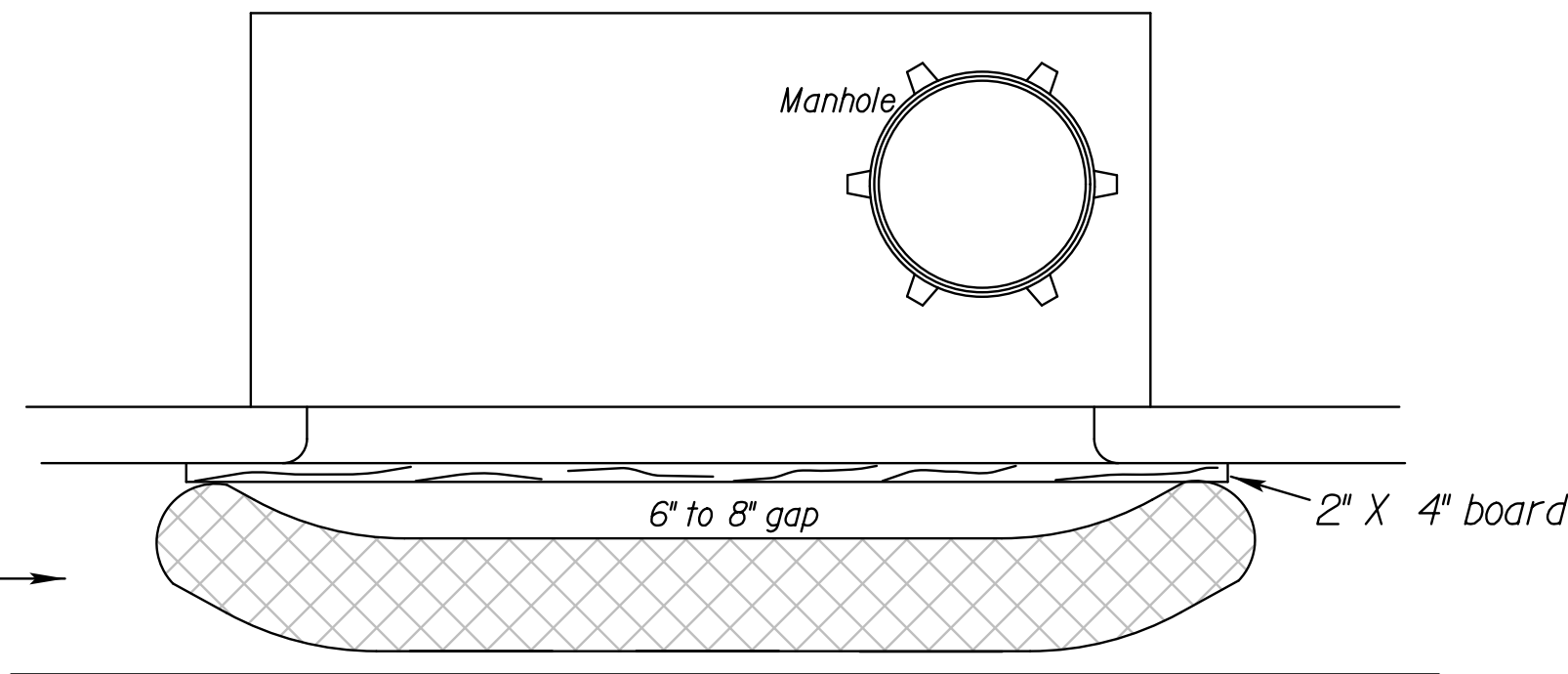
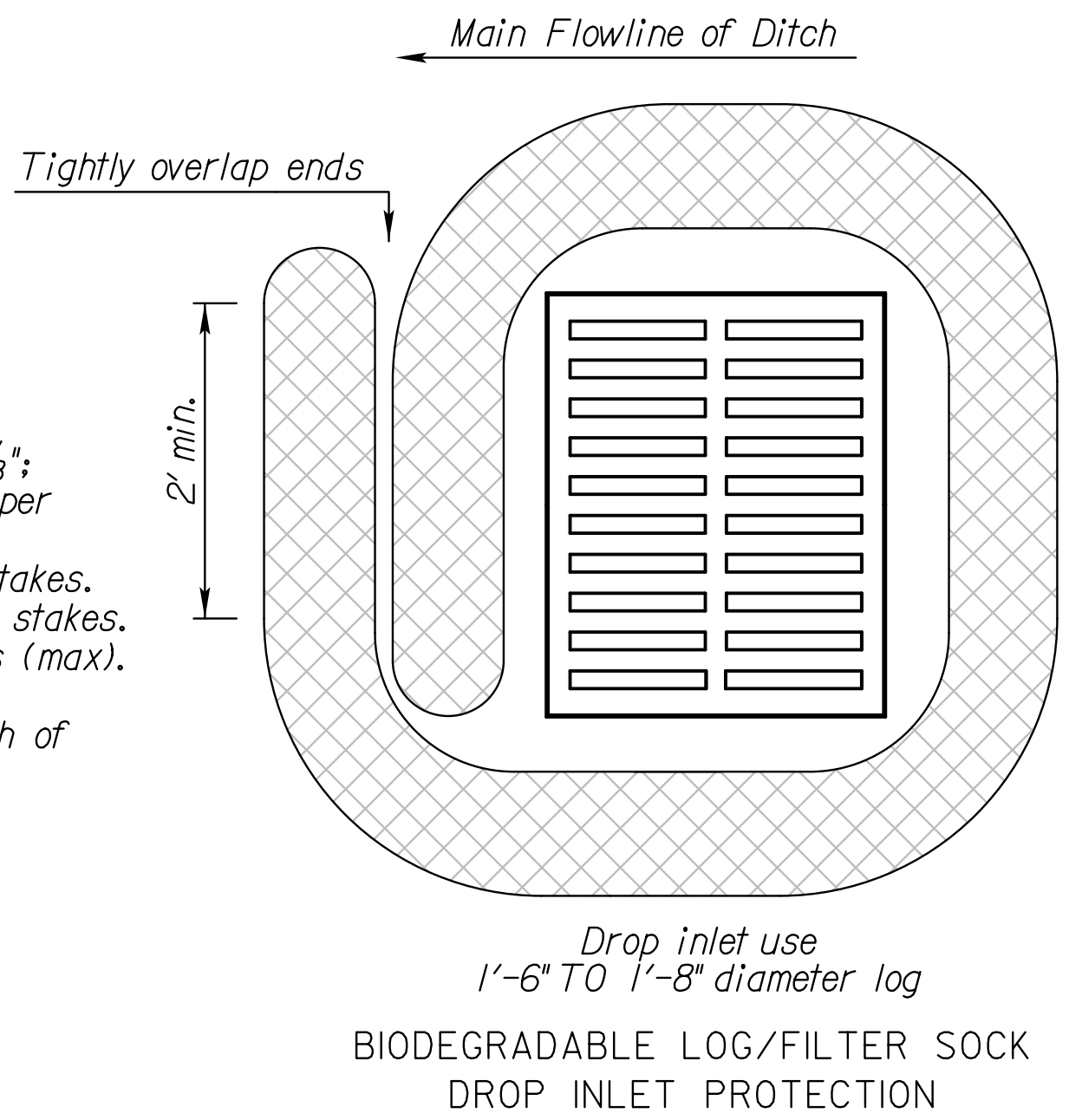
PLAN
TEMPORARY INLET SEDIMENT BARRIER
(SILT FENCE METHOD)
NO SCALE

SECTION C - C

- SILT FENCE:**
1. Stakes shall be 4' (min.) long and of one of the following materials:
 - a. Hardwood - 1 3/16" x 1 3/16";
 - b. Southern Pine (No. 2) - 2 5/8" x 2 5/8";
 - c. Steel U, T, L, or C Section - .95 lbs. per 1'-0"; or
 - d. Synthetic - same strength as wood stakes.
 2. Cross pieces shall be of same material as stakes.
 3. Attach fence fabric securely on 6" centers (max).
 4. Use of high flow material is acceptable.
 5. Refer to plan sheets to estimate the length of silt fence required.

Bags = synthetic net (3mm mesh) or burlap bags

Rock = approximately 1" to 2" diameter



CURB INLET PROTECTION

1. If multiple gravel bags are required, place them in such a way that no gaps are evident.
2. Height of bags (8" minimum diameter) must not be above top of curb.
3. Alternative products may be used other than gravel bags such as the "Gutter Buddy". Products must be approved by the Engineer.
4. Curb inlet protection will be measured and paid for as Filter Sock.

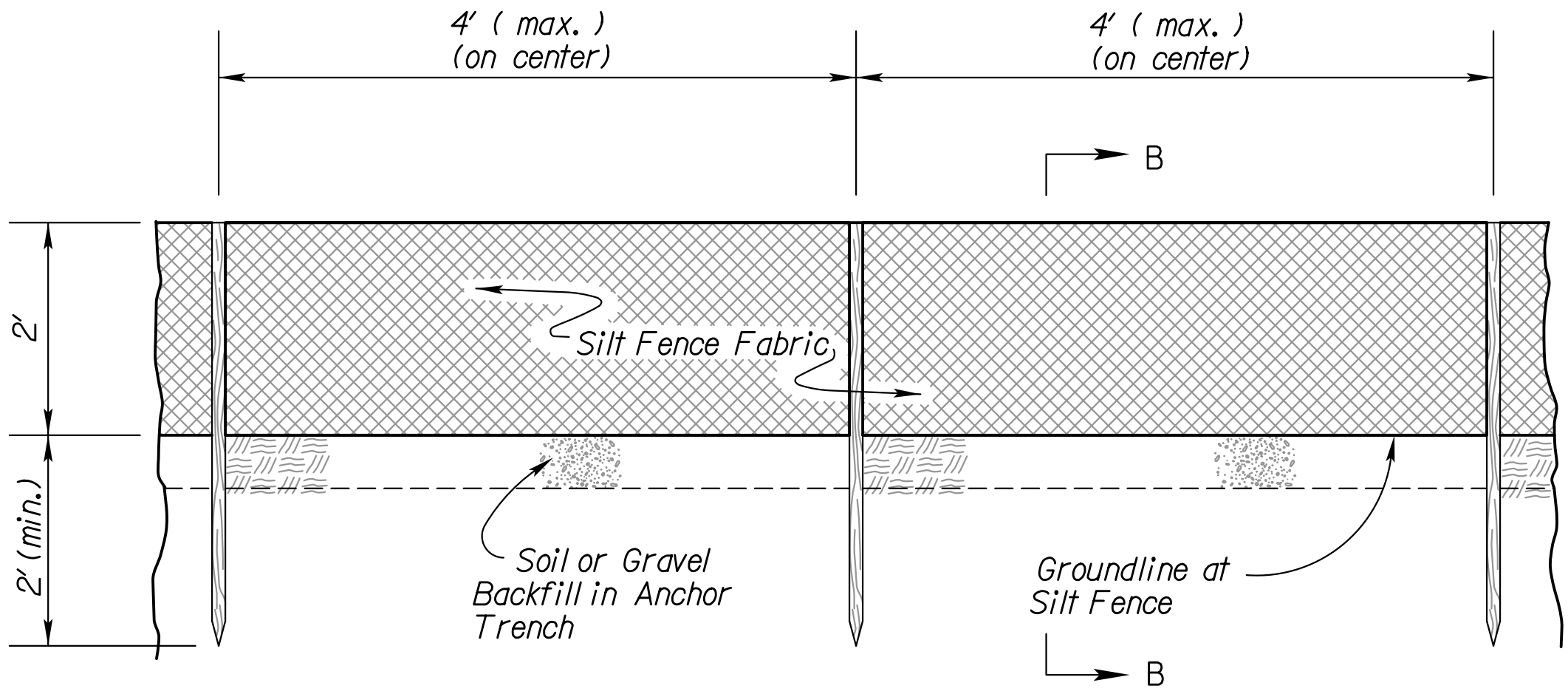
Material Requirements	
Use 100% shredded mulch or other non-compost biodegradable material as fill for logs.	
No compost or fines.	
No hay or straw.	
Do not use material which prohibits water infiltration.	
Log Mesh:	
Use mesh with 1/4" openings or larger. Mesh must allow water infiltration but also hold fill material in place.	

NO.	DATE	REVISIONS	BY	APP'D
3	9/26/19	Changed Direction of Main Flowline of Ditch Arrow	MRD	SHS
2	3/10/15	Revised Standard	RA	SHS
1	6/01/13	Revised Standard	MRM	SHS
KANSAS DEPARTMENT OF TRANSPORTATION				
TEMPORARY EROSION AND POLLUTION CONTROL				
TEMP. INLET SEDIMENT BARRIER (SILT FENCE)				
TEMP. INLET SEDIMENT BARRIER (T.S.D.)				
CURB INLET PROTECTION				
DROP INLET PROTECTION				
LA852C				
FHWA APPROVAL		3/10/2015	APP'D	Scott H. Shields
DESIGNED	RA	DETAILED	RA	QUANTITIES
DESIGN CK.	SHS	DETAIL CK.	SHS	CADD CK.

Std. Base File:
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File: ta852c.dgn
Plot Date: 18-DEC-2020 01:01

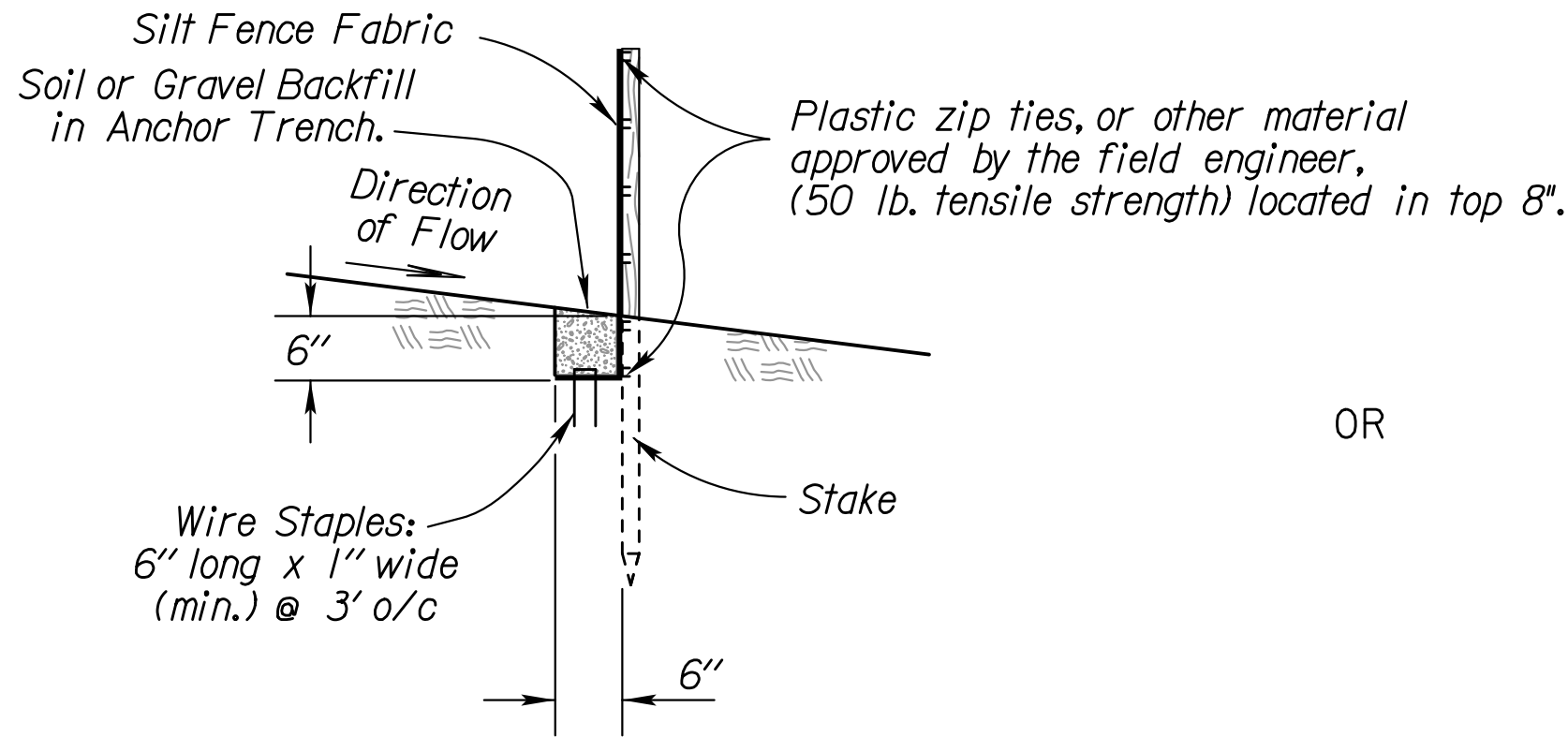
Std. Base File:
Plotted By: melissa
File: la852d.dgn
Plot Date: 14-SEP-2016 13:07

Plot Location: Landscape



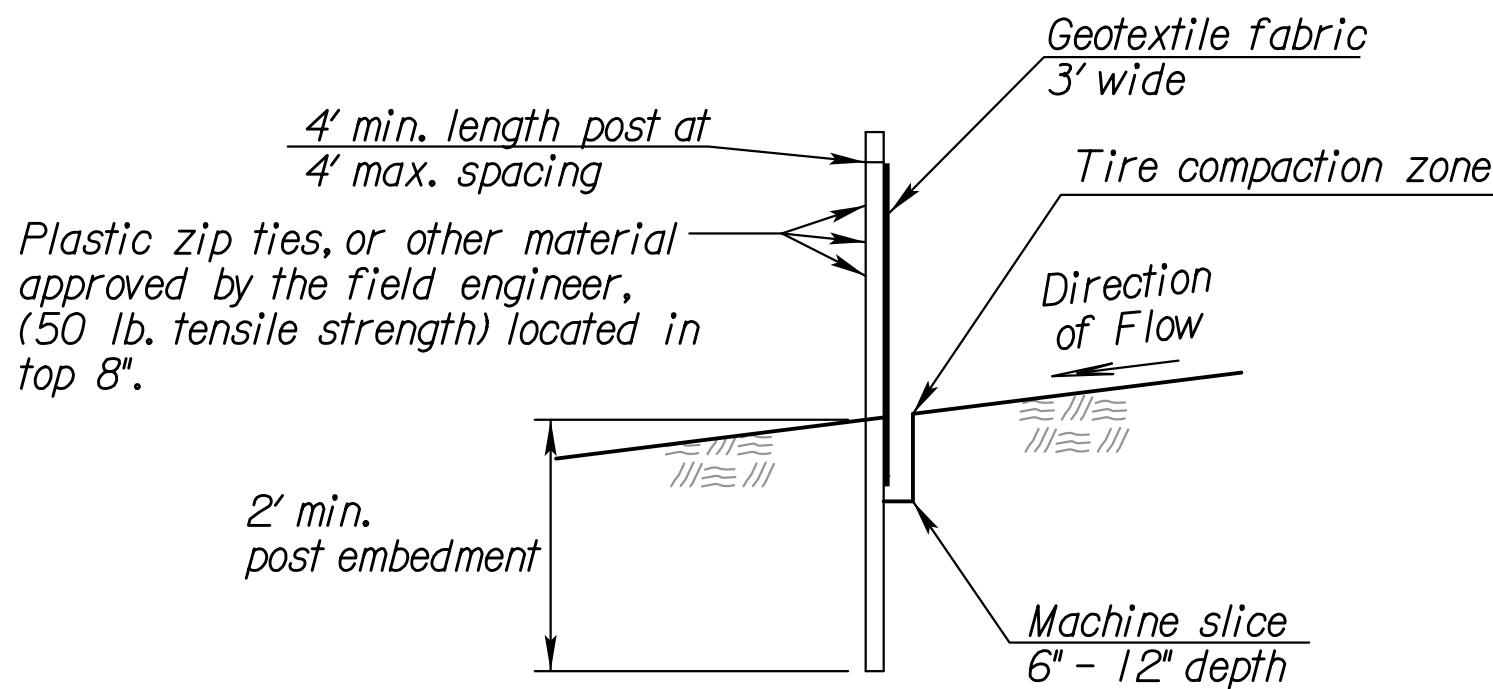
TYPICAL ELEVATION

SILT FENCE BARRIER
NO SCALE

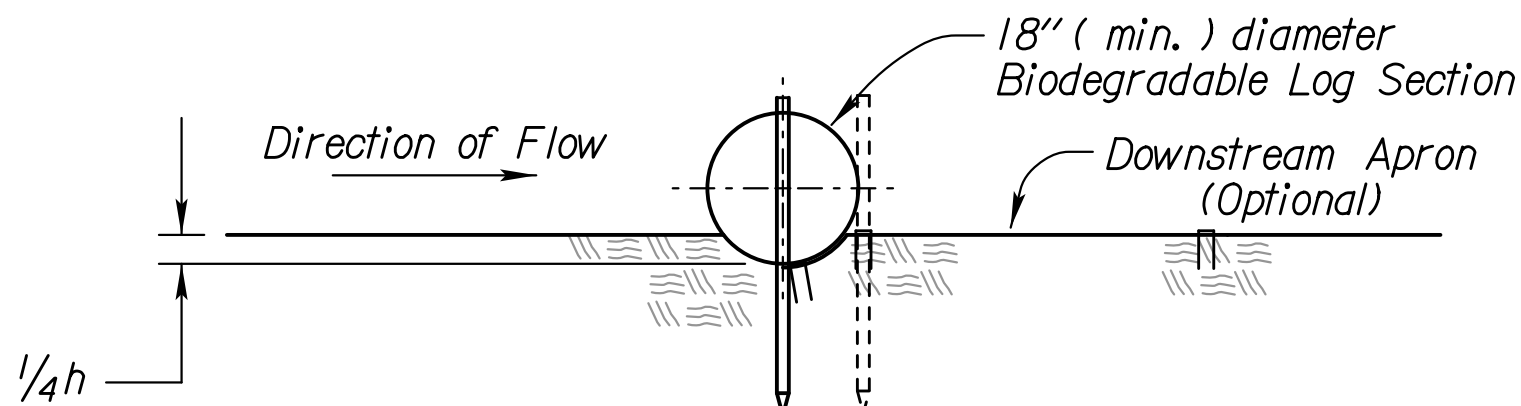


SECTION B-B

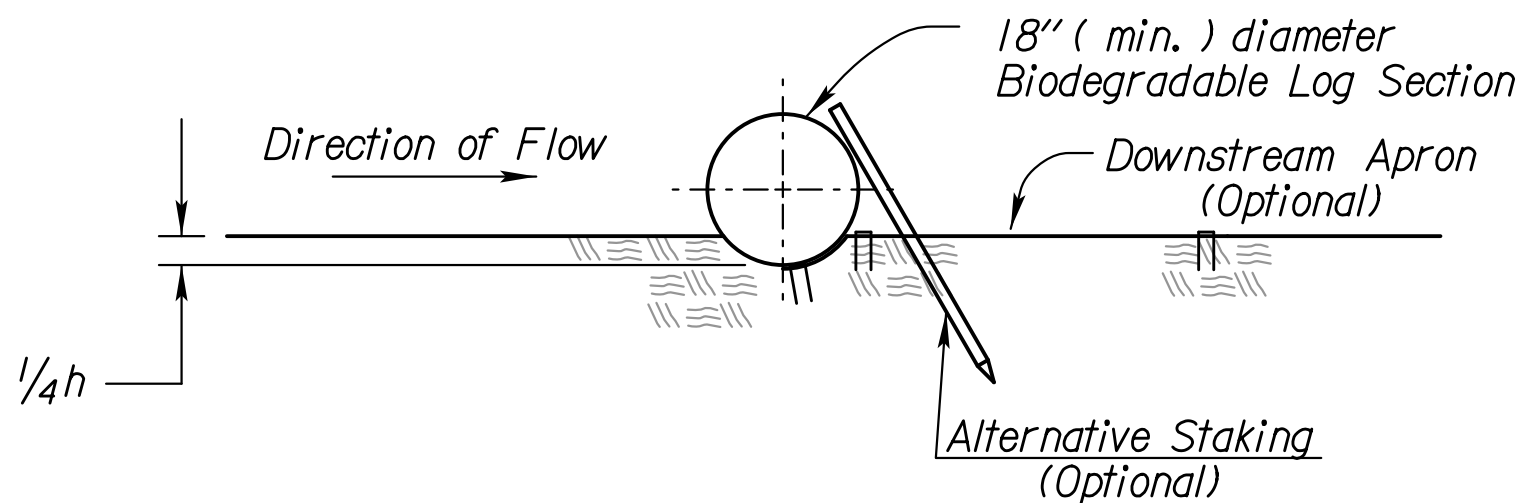
OR



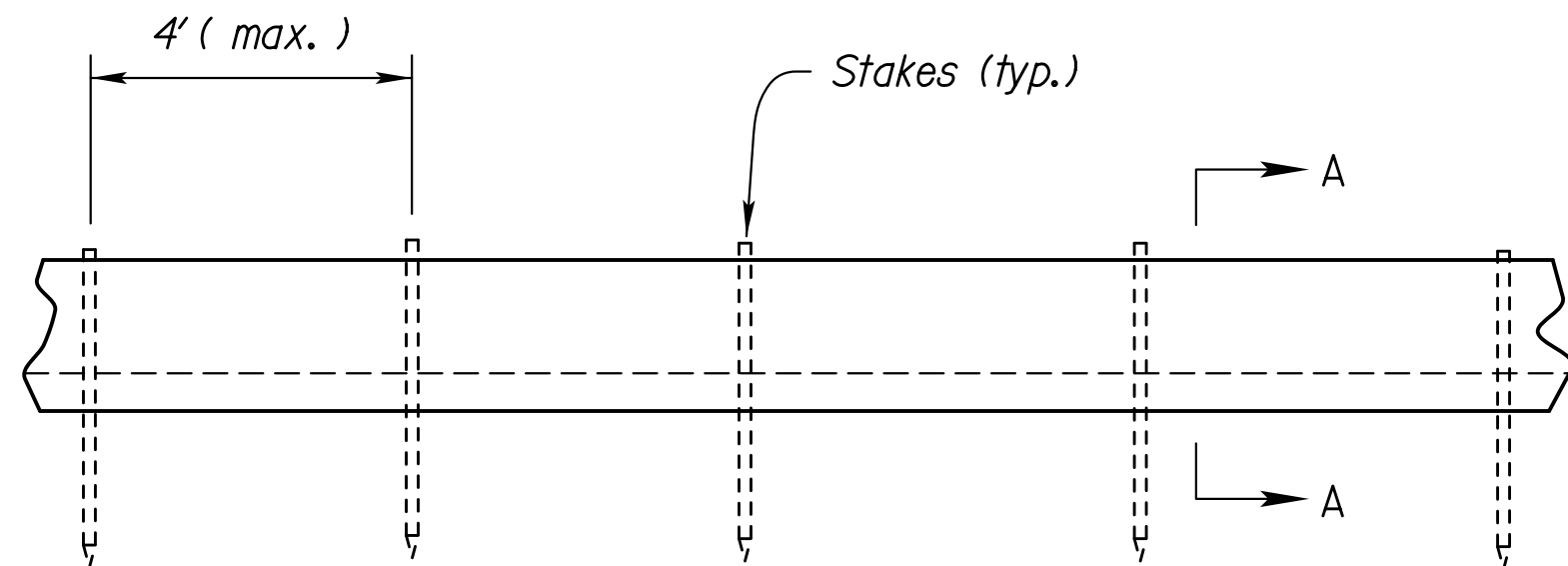
SECTION B-B



SECTION A - A



ALT. DETAIL
OPTIONAL



TYPICAL ELEVATION

BIODEGRADABLE LOG SLOPE INTERRUPTIONS
OR Filter Sock

INSTALLATION NOTES

- SILT FENCE:**
- Stakes shall be 4' (min.) long and of one of the following materials:
 - Hardwood - 1 3/16" x 1 3/16";
 - Southern Pine (No. 2) - 2 5/8" x 2 5/8";
 - Steel U, T, L, or C Section - .95 lbs. per 1'-0"; or
 - Synthetic - same strength as wood stakes.
 - Attach fence fabric with 3 zip ties within the top 8" of the fence. Alternate attachment methods may be approved by the Engineer on a performance basis.
 - Use of high flow material is acceptable.
 - Refer to plan sheets to estimate the length of silt fence required.

BIODEGRADABLE LOG OR FILTER SOCK

- Place biodegradable logs or filter sock tightly together minimum overlap of 18".
- Wood stakes shall be 2" x 2" (nom.).
- Refer to plan sheets to estimate length of biodegradable log and filter sock required.
- Each log or sock (except compost filter socks) should be keyed into the ground at a minimum of 25% of its height. Compost filter socks should be placed on smooth prepared ground with no gaps between the sock and soil.
- Length of stakes should be 2 times the height of the log at a minimum with minimum ground embedment equal to the height of the log / sock.

Biodegradable Log or Filter Sock Slope Interruptions

		PRODUCT		
		9" Sediment Log or 8" Filter Sock (ft)	12" Sediment Log or 12" Filter Sock (ft)	20" Sediment Log or 18" Filter Sock (ft)
Slope Gradient	≤4H:1V	40	60	80
	3H:1V	30	45	60

Deviations should be approved by the Field Engineer.

BIODEGRADABLE LOG MATERIAL		
	LOW FLOW	HIGH FLOW
9"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
12"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
18"-20"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber

GENERAL NOTES

- Slope interruptions shall be placed along contour lines, with a short section turned upgrade at each end of the barrier.
- The maximum length of the slope interruptions shall not exceed 250 feet, and the barrier ends need to be staggered.
- Interruptions damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired immediately by Contractor at no additional cost to KDOT.
- Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

3	6/28/16	Revised Standard	RA	SHS
2	3/01/15	Revised Standard	RA	SHS
1	6/01/13	Revised Standard	MRM	SHS
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
TEMPORARY EROSION AND POLLUTION CONTROL				
SLOPE INTERRUPTIONS				
BIODEGRADABLE LOG / SILT FENCE				
LA852D				
FHWA APPROVAL		9/14/2016	APP'D	Scott H. Shields
DESIGNED	SHS	DETAILED	RA	QUANTITIES
DESIGN CK.	SHS	DETAIL CK.	QUAN. CK.	CADD CK.

CADconform Certify This File

Sheet No. 0

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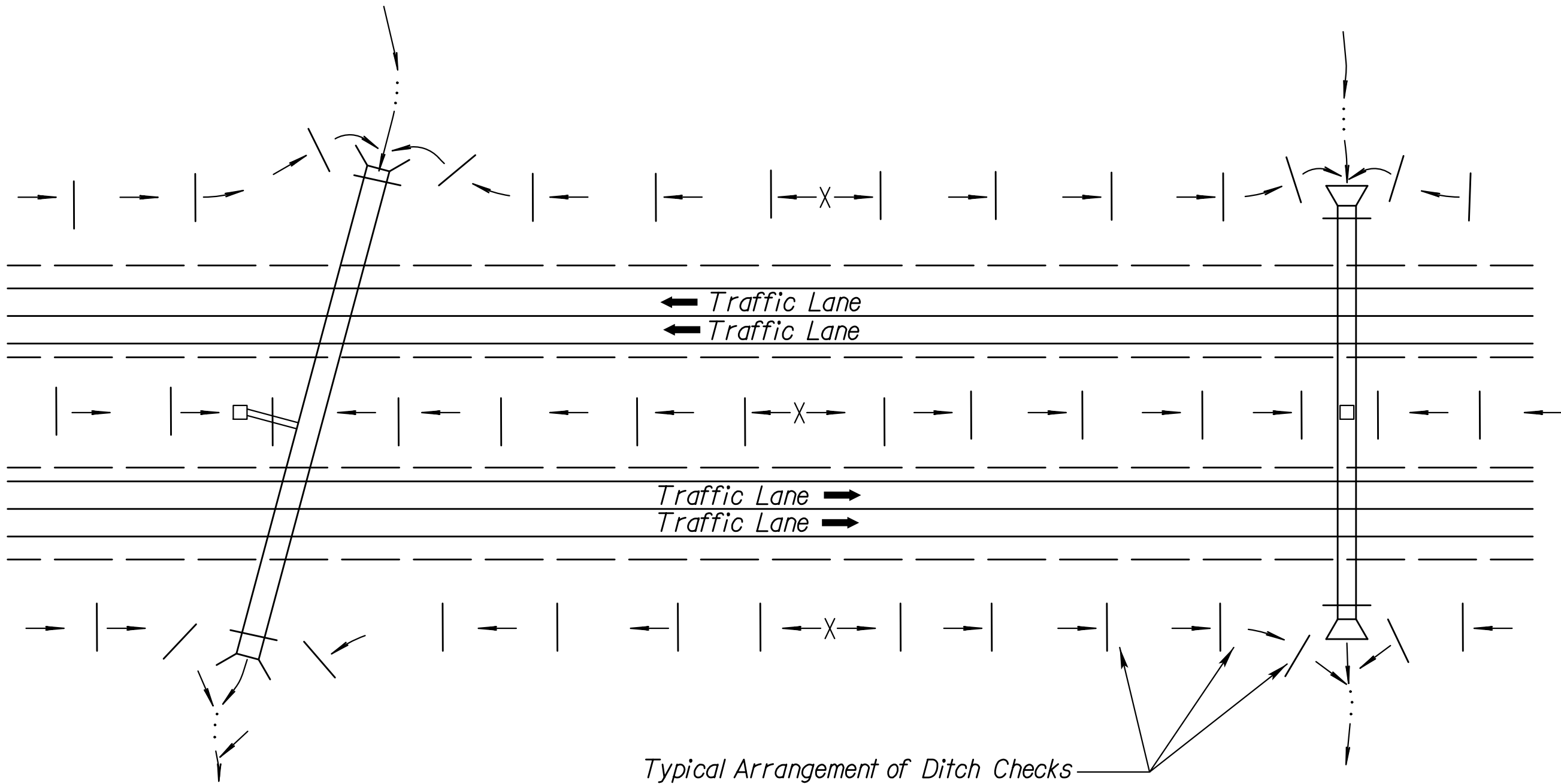
Plotted By: melissa

File: la852e.dgn

Plot Date: 14-SEP-2016 13:10

Plot Location: Landscape

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	32	69



TYPICAL DITCH CHECK LAYOUT PLAN
NO SCALE

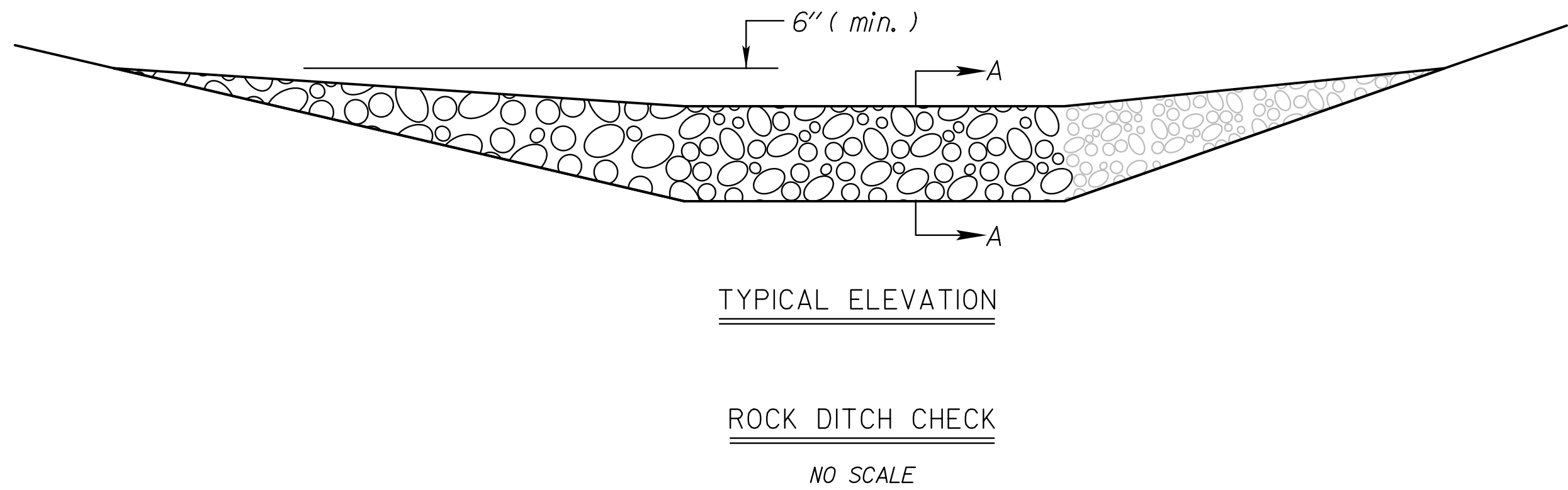
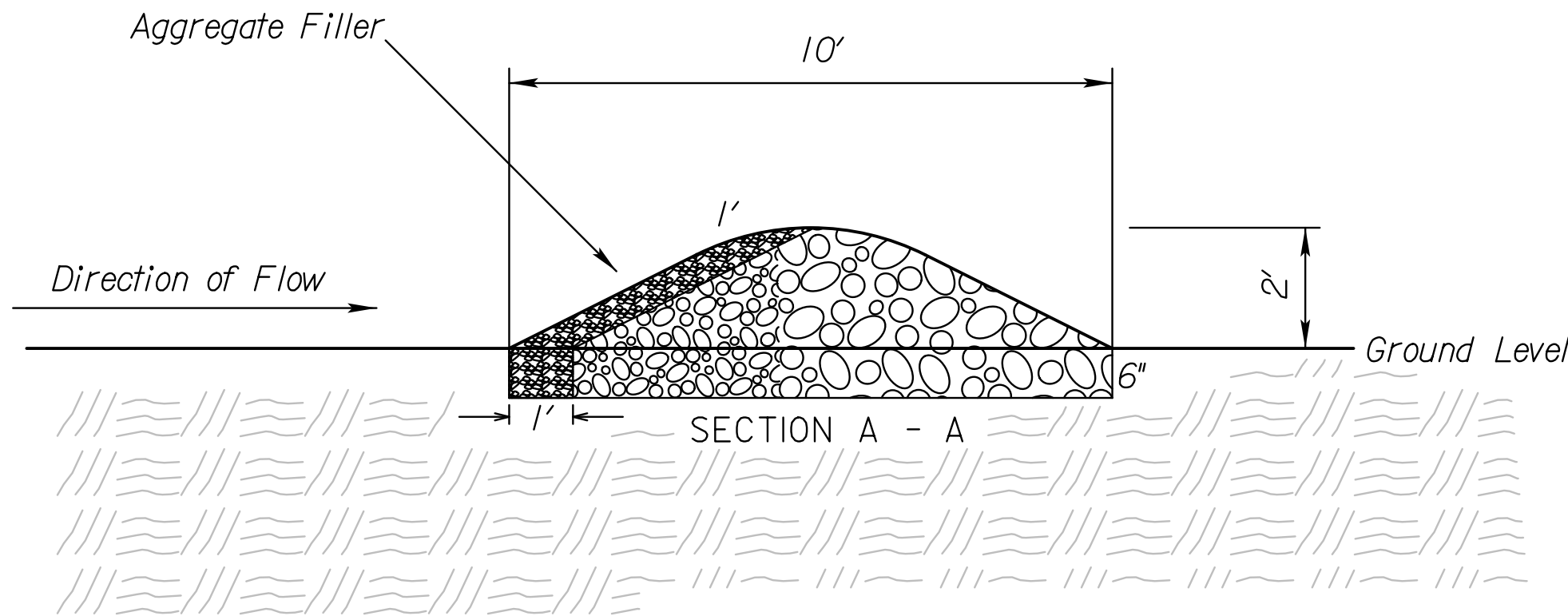
20" BIOLOG CHECK SPACING	
DITCH Q SLOPE (%)	SPACING INTERVAL (FEET)
1.0	125
2.0	60
3.0	40
4.0	30
5.0	25
NOTE: Use this spacing for all except Rock Ditch Checks.	

18" FILTER SOCK CHECK SPACING	
DITCH Q SLOPE (%)	SPACING INTERVAL (FEET)
1.0	110
2.0	55
3.0	35
4.0	25
5.0	20
NOTE: Use this spacing for all except Rock Ditch Checks.	

GENERAL NOTES

- 1) The choice of ditch check methods is at the option of the Contractor.
- 2) Use only rock checks in situations where the ditch slope is 6 percent or greater.
- 2) Ditch checks damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired by Contractor at no extra cost to KDOT.

3	8/10/16	Revised Standard	RAA	SHS
2	6/28/16	Revised Standard	RAA	SHS
1	6/01/13	Revised Standard	MRM	SHS
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
TEMPORARY EROSION AND POLLUTION CONTROL				
DITCH CHECKS				
LA852E				
FHWA APPROVAL		9/14/2016	APP'D	
DESIGNED		SHS	Scott H. Shields	
DESIGN CK.		SHS	CADD	
		SHS	RAA	
		SHS	QUANTITIES	
		SHS	CADD CK.	
		SHS	RAA	



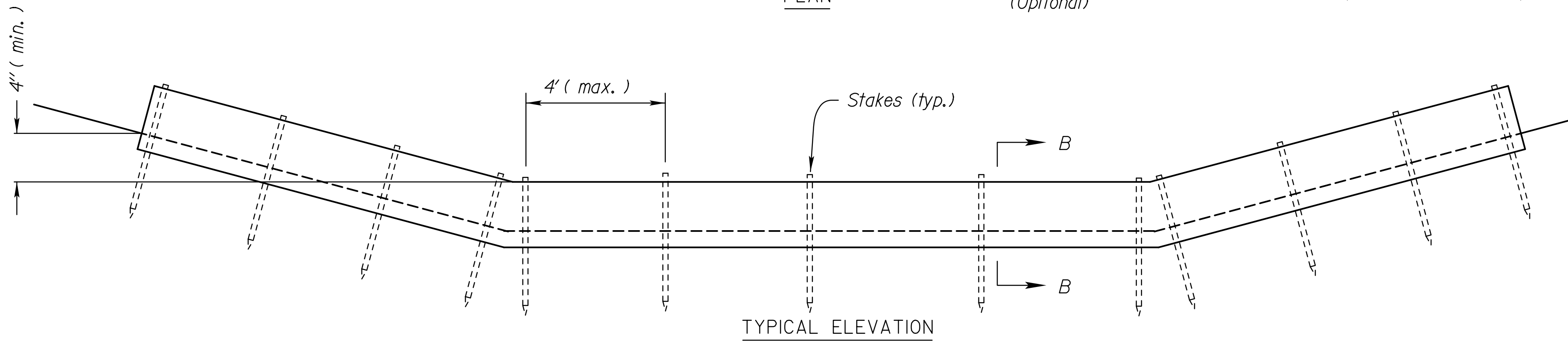
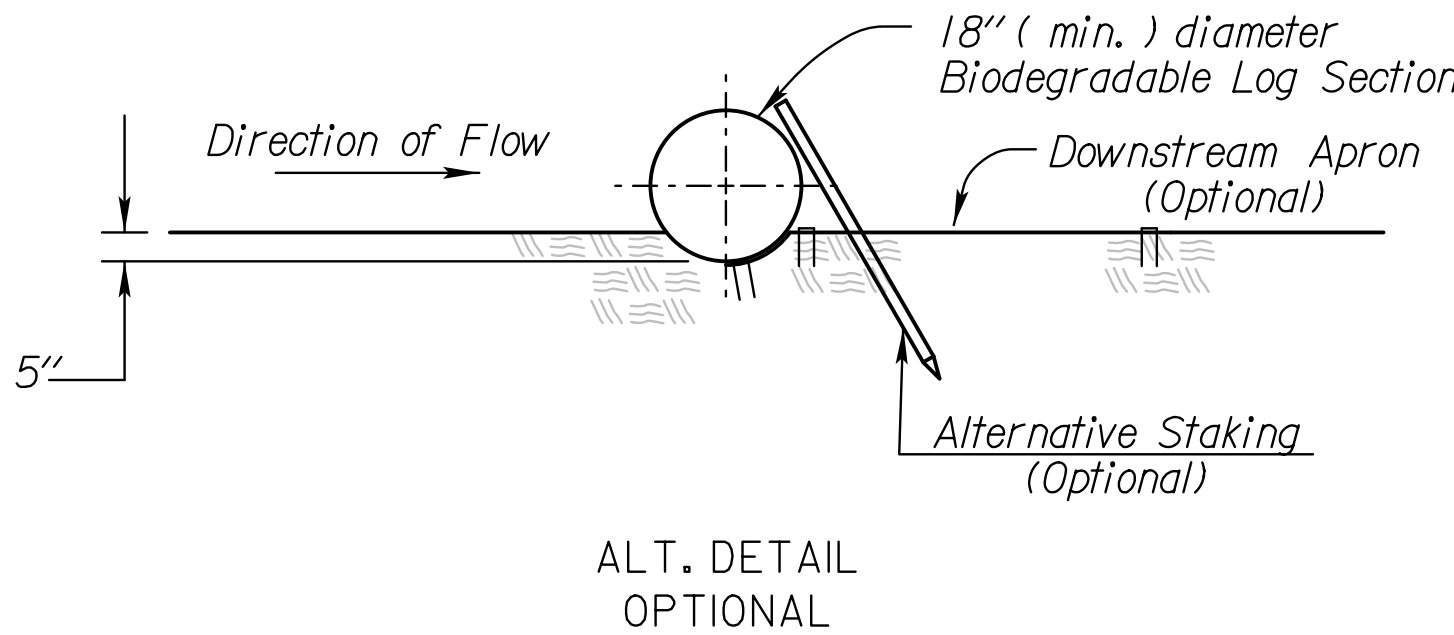
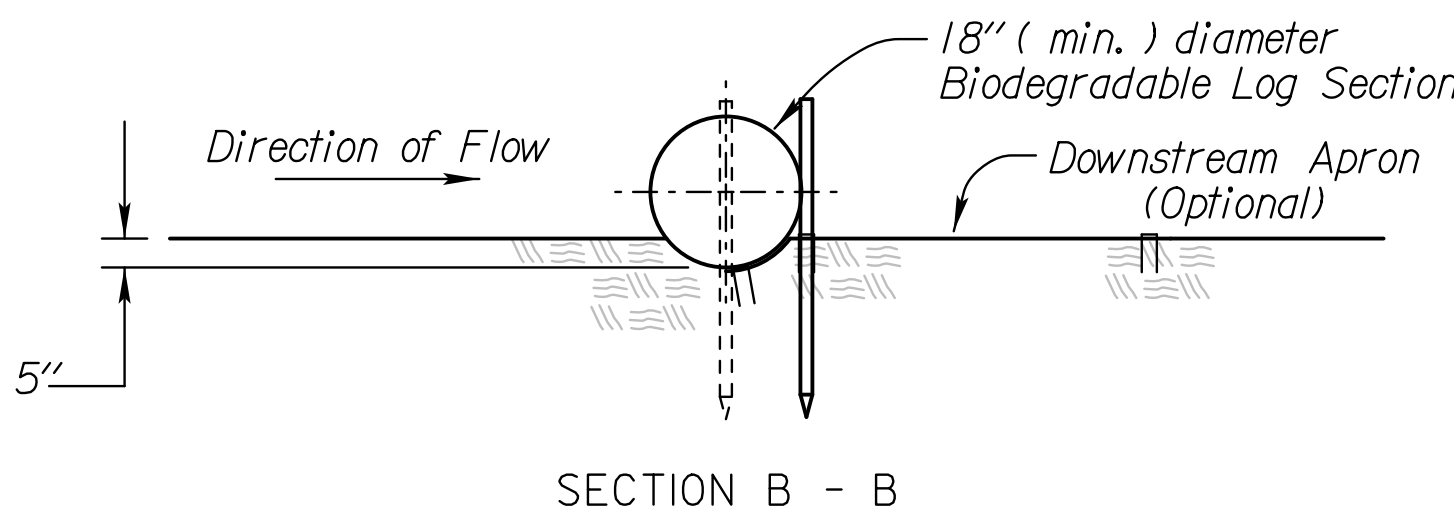
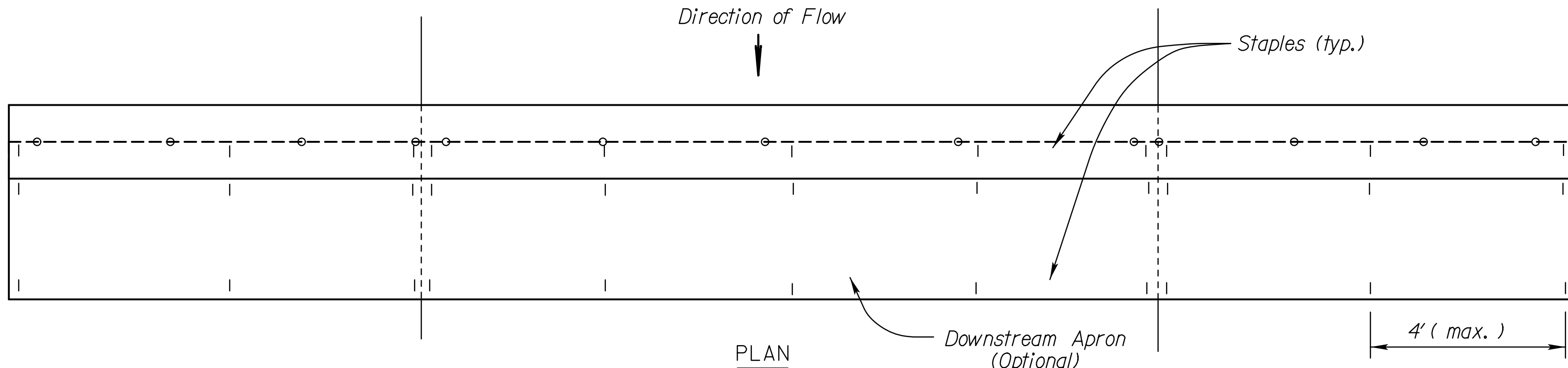
TEMPORARY ROCK DITCH CHECK SPACING	
DITCH & SLOPE (%)	SPACING INTERVAL (FEET)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29
NOTE: Use this spacing for Rock Ditch Checks only.	

ROCK DITCH CHECK NOTES

1. Rock shall be clean aggregate, D50-6" and aggregate filler.
2. Place rock in such manner that water will flow over, not around ditch check.
3. Do not use rock ditch checks in clear zone.
4. Excavation: The ditch area shall be reshaped to fill any eroded areas. Prior to placement of the rock, the ditch shall be excavated to the dimensions of the Rock Ditch Check and to a minimum depth of 6" (150mm). After placement of the rock, backfill and compact any over-excavated soil to ditch grade. This work shall be subsidiary to the bid item Temporary Ditch Check (Rock).
5. Aggregate excavated on site may be used as an alternate to the 6" rock, if approved by the Engineer.
6. The Engineer may approve the use of larger aggregates for the downstream portion of the check when conditions warrant their use.
7. When the use of larger rock is approved, D50-6" rock will be placed between the larger aggregate and the aggregate filler.
8. Aggregate filler will be placed on the upstream face of the ditch check. Aggregate filler will comply with Filter Course Type I, Division 1114.

BIODEGRADABLE LOG DITCH CHECK NOTES

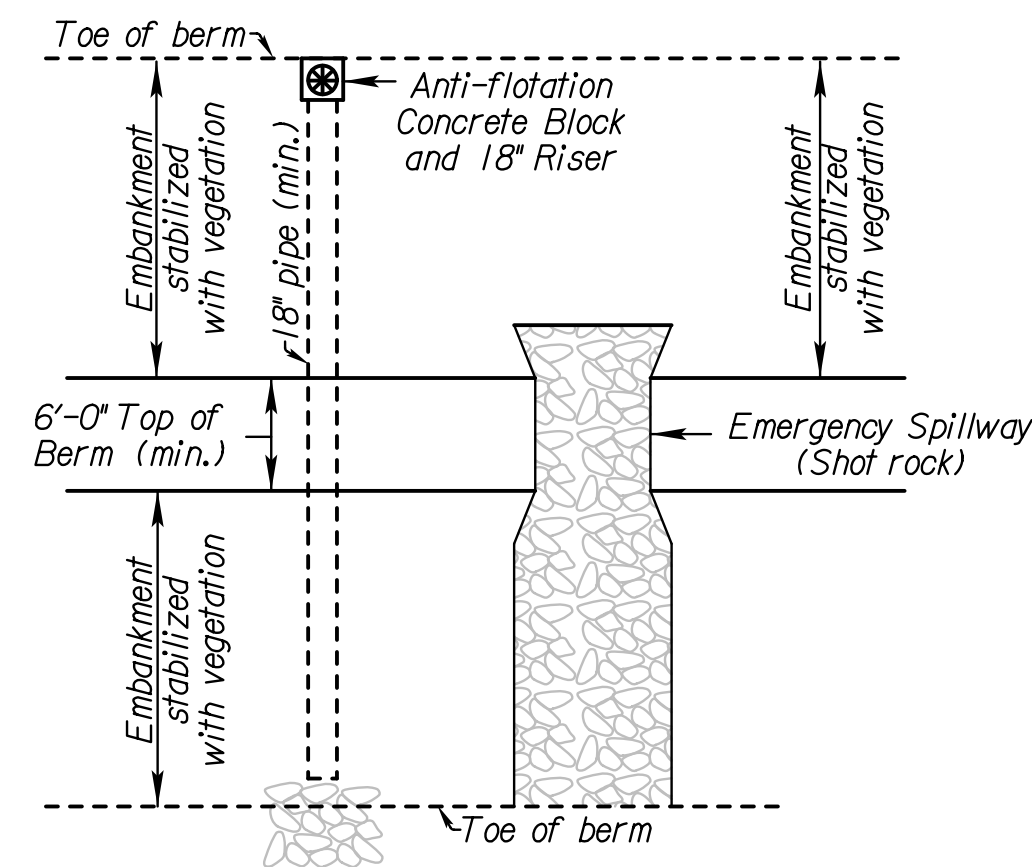
1. Use as many biodegradable log sections as necessary to ensure water does not flow around end of ditch check.
2. Overlap sections a minimum of 18".
3. Stakes shall be wood or steel according to Section 2114 of the Standard Specifications. Length of stakes shall be a minimum of 2 x the diameter of the log.
4. Use Erosion Control (Class I) (Type C) as the downstream apron when required.
5. A downstream apron is required when directed by the Engineer. Apron material will be paid at the contract unit price.
6. Each log or sock (except compost filter socks) should be keyed into the ground at a minimum of 25% of its height. Compost filter socks should be placed on smooth prepared ground with no gaps between the sock and soil.



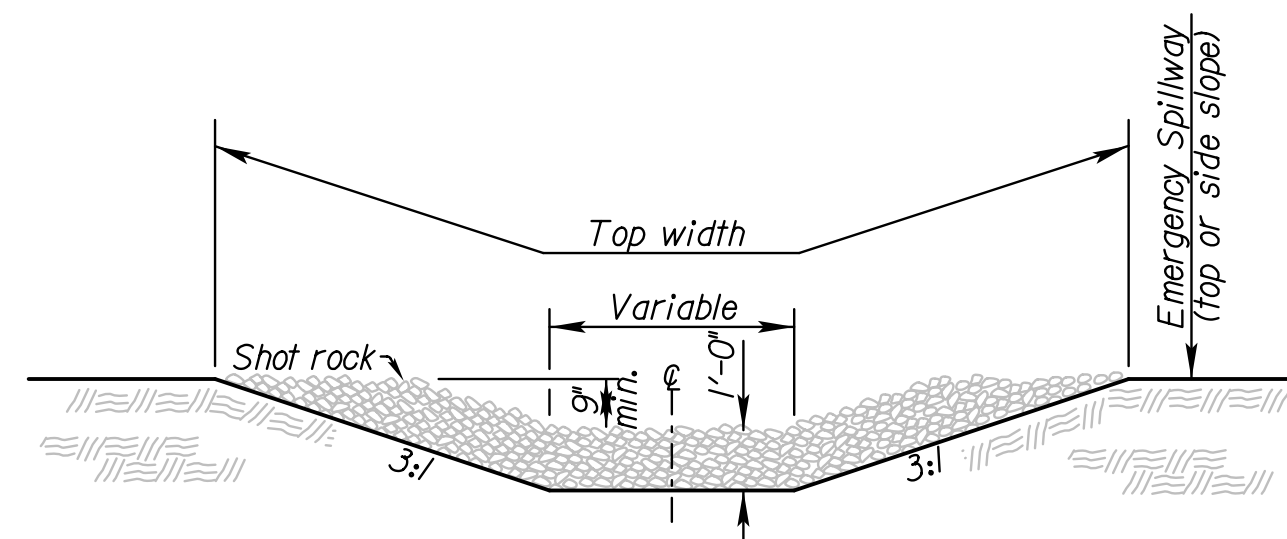
BIODEGRADABLE LOG DITCH CHECK
OR Filter Sock Ditch Check
NO SCALE

3	11/19/20	Revised Standard	MRD	ML
2	8/10/16	Revised Standard	RAA	SHS
1	10/21/15	Revised Standard	RAA	SHS
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION TEMPORARY EROSION AND POLLUTION CONTROL ROCK DITCH CHECKS BIODEGRADABLE LOG DITCH CHECKS				
LA852G				
FHWA APPROVAL		11/19/2020	APP'D	Mervin Lare
DESIGNED	ML	DETAILED	DK	QUANTITIES
DESIGN CK.	ML	DETAIL CK.	ML	QUAN.CK.
			CADD	RAA
			CADD CK.	RAA

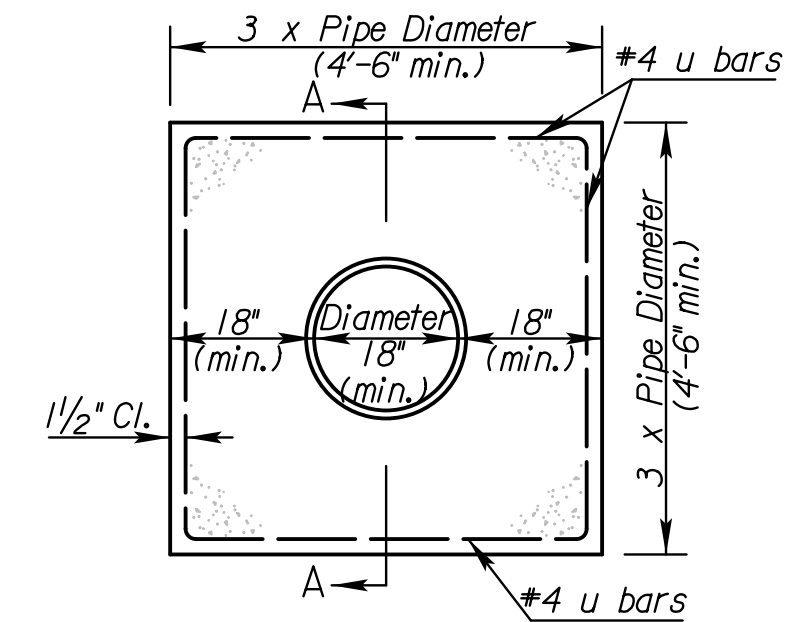
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	34	69



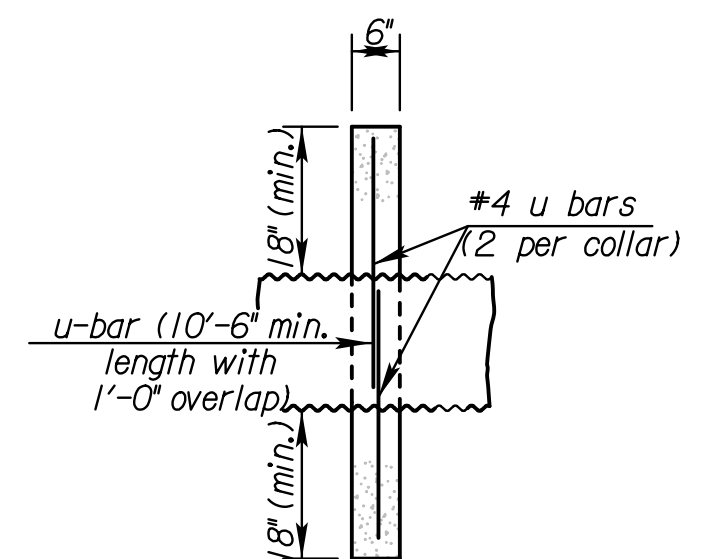
SEDIMENT STORAGE BASIN (PLAN)



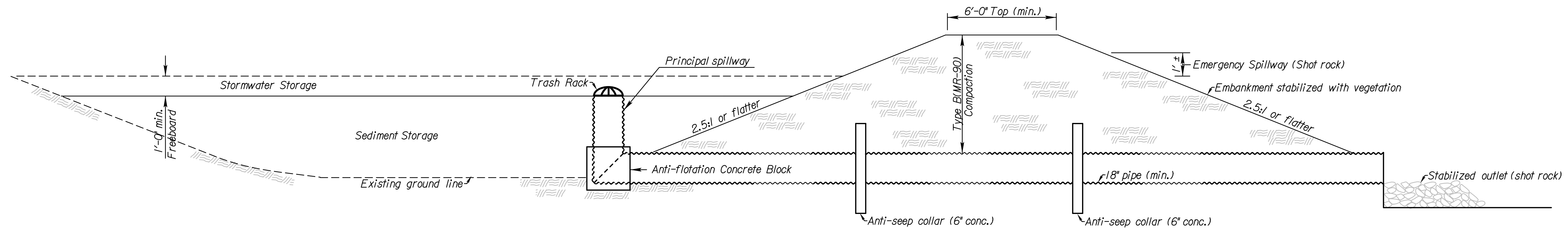
CROSS SECTION (EMERGENCY SPILLWAY)



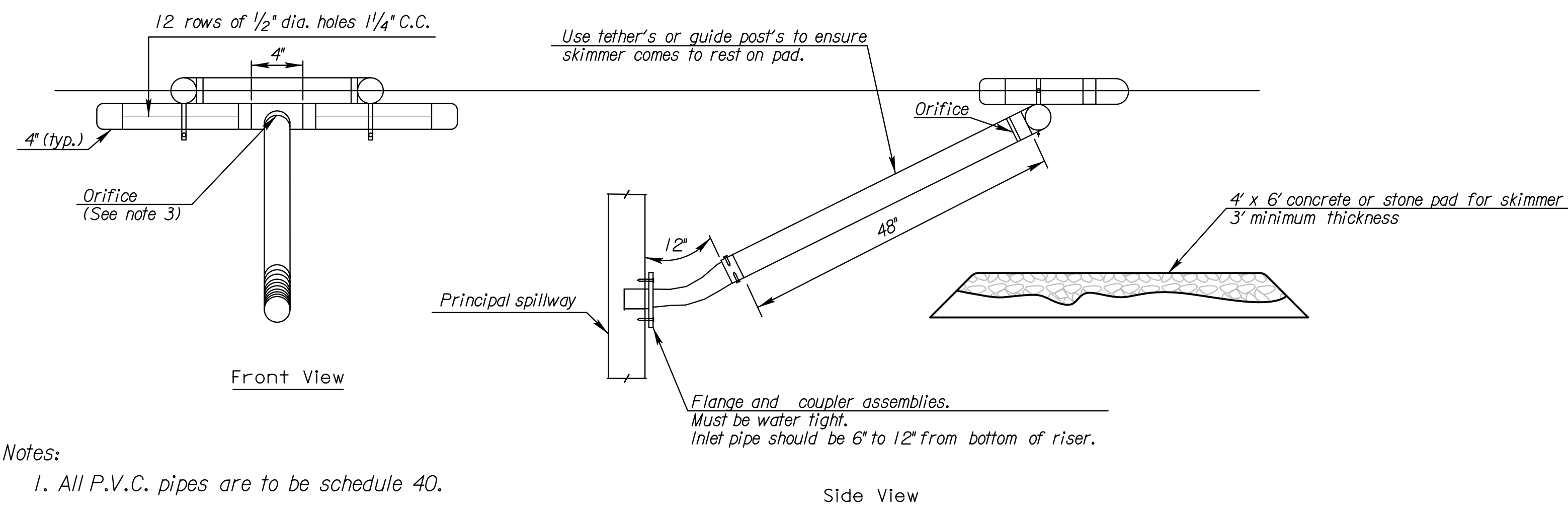
CONCRETE ANTI-SEEP COLLAR



SECTION A-A



SEDIMENT STORAGE BASIN (ELEVATION)



Notes:

1. All P.V.C. pipes are to be schedule 40.
2. HDPE flexible drain pipes is to be attached to the pond outlet structure with water-tight connections.
3. The orifice shall be sized of to provide drawdown time to 2 to 5 days and approved by the engineer.
4. Other skimmer designs maybe used that dewater from the surface at a controlled rate. The design must be approved by the engineer.

SKIMMER DEWATERING DEVICE

[illegible]

NOTES:

- 1) Temporary Sediment Basins shall be constructed at locations as directed by the Engineer or as approved in the SWPPP Schedule. All work and materials necessary, including but not limited to, the fill material, compaction, drainage pipes, aggregates and all other incidentals necessary to construct the basin, shall be paid as "Temporary Sediment Basin".
- 2) Lengths and top dimensions shall be determined in the field by the Engineer.
- 3) Skimmer dewatering device required and must be used regardless the size of the drainage area.

3				
2	9/3/13	Added Skimmer Dewatering Device	MRM	SHS
1	7/17/13	Revised Standard	MRM	SHS
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

SEDIMENT STORAGE BASIN

LA852H

FHWA APPROVAL		09/24/2013		APP'D		Scott H. Shields	
DESIGNED	BB	DETAILED	BB	QUANTITIES		CADD	BB
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.		CADD CK.	SHS

KDOT Graphics Certified 07-28-2021

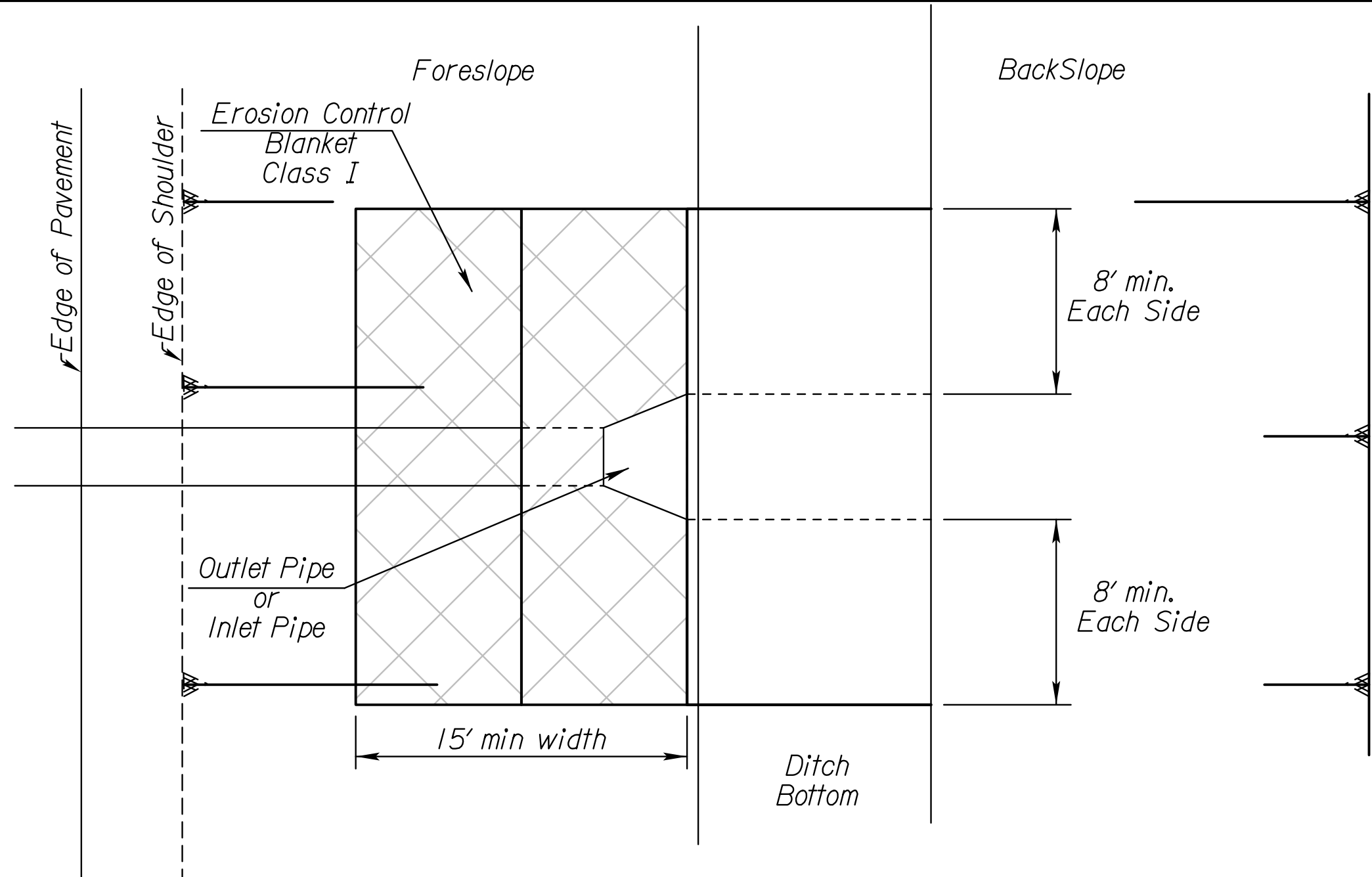
Sheet No.

Std. Base File:	
Plotted: Melissa.Davidson@cs.gsu.edu	Plot Location:
File: /a852h.dgn	
Plot Date: 28-JUL-2021 14:32	

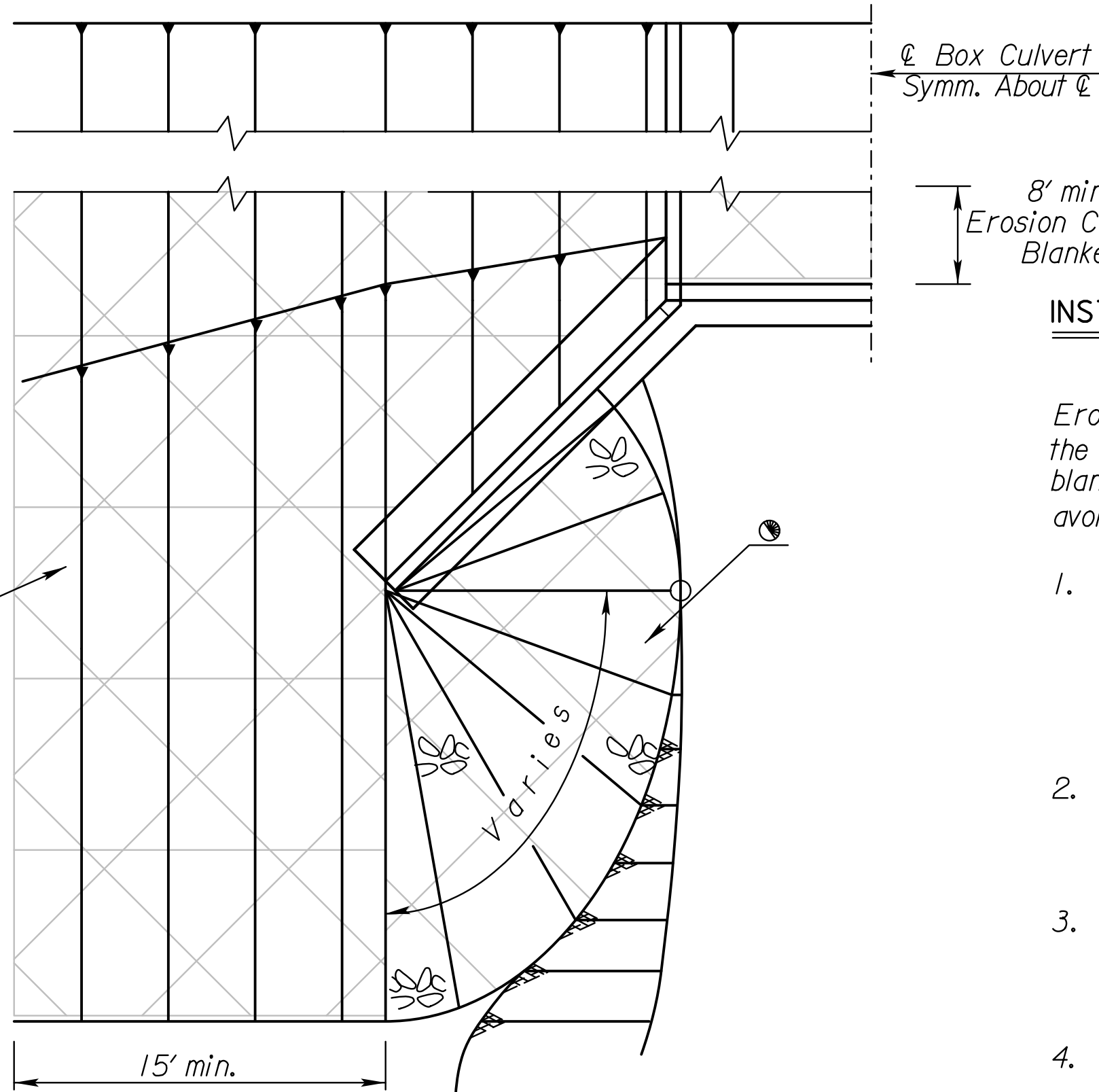
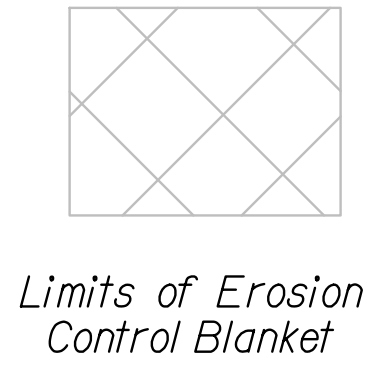
KDOT Graphics Certified

Std. Base File: la855.dgn
Plotted: MelissaDavidson@ks.govPlot Location:
File: la855.dgn
Plot Date: 28-JUL-202114:40

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	35	69



PARTIAL PLAN PIPE



PARTIAL PLAN BOX CULVERT

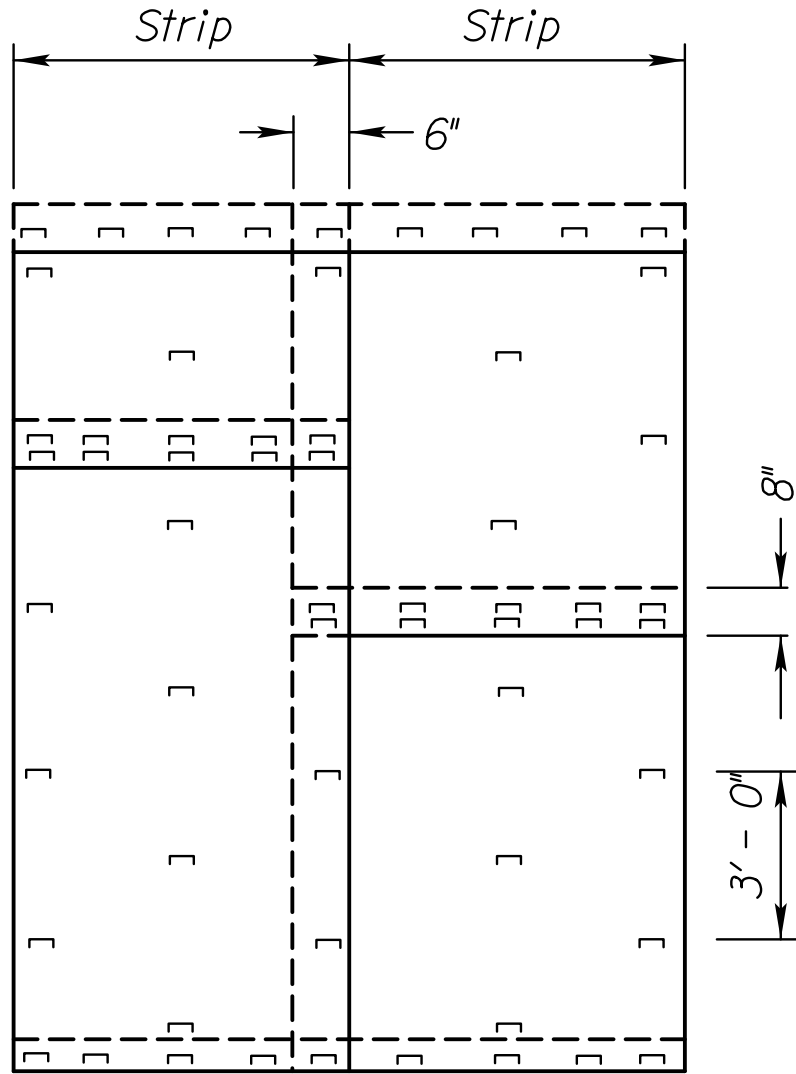
INSTALLATION DETAILS FOR EROSION CONTROL CLASS I

Erosion Control Blankets shall be laid loosely in the direction of the slope, beginning at the bottom of the slope. In order for blanket to be in contact with the soil, lay blanket loosely, avoiding stretching.

- ANCHOR SLOTS:** The top of the blanket should be "slotted in" at the top of the slope and anchored in place with anchors 6 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and seeded.
- LONGITUDINAL SEAMS:** The edges of the blanket should overlap each other a minimum of 6 inches, with anchors catching the edges of both blankets.
- SPLICE SEAM:** When splices are necessary, overlap a minimum of 8 inches in direction of water flow. Stagger splice seams.
- TERMINAL FOLD:** The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 9 inches apart.
- TYPICAL ANCHORS:** Anchor design shall be as recommended by the manufacturer.
- STAPLE CHECK:** #Establish Staples in 2 rows 4" on center apart. Staple Checks - shall be 30' apart.

● Erosion Control Class I may be omitted if the area is immediately covered by permanent slope protection (where directed by the plans).

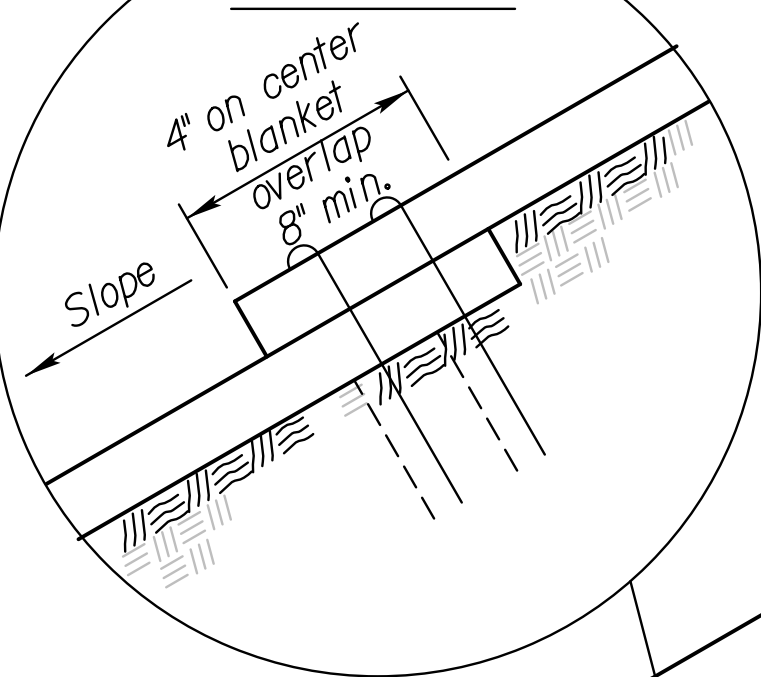
NOTE:
Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.
Single post ring and shank staple is acceptable.



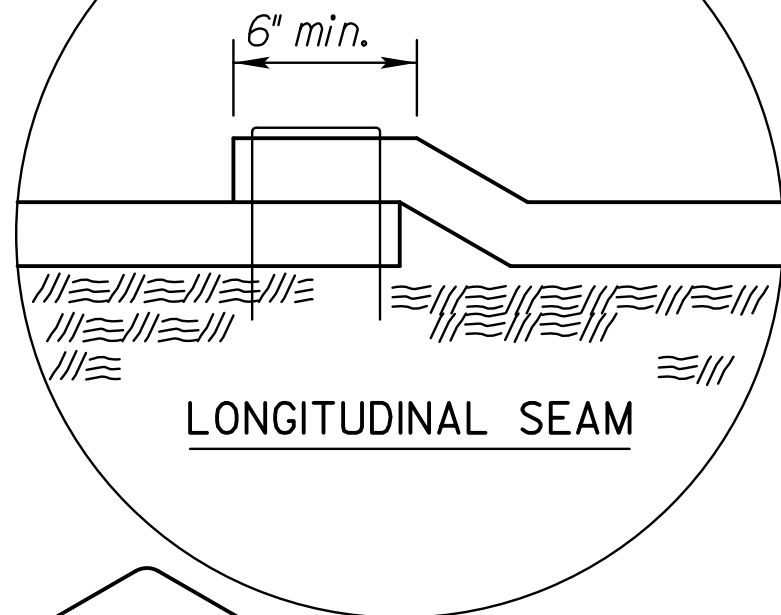
PLAN VIEW - ANCHORING DIAGRAM

ISOMETRIC VIEW

SPLICE SEAM

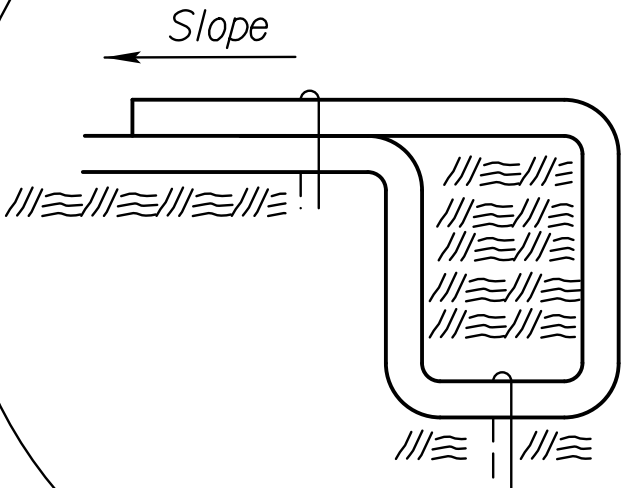


LONGITUDINAL SEAM



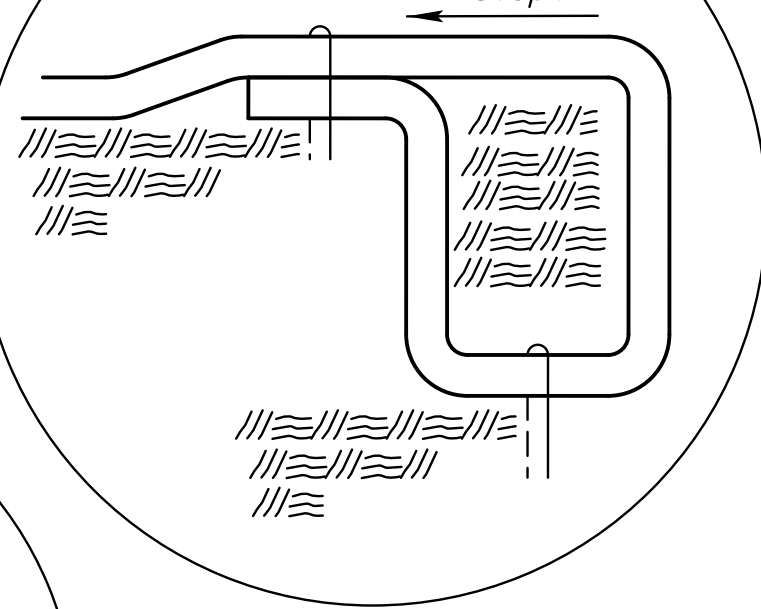
ANCHOR SLOT

Alt. A

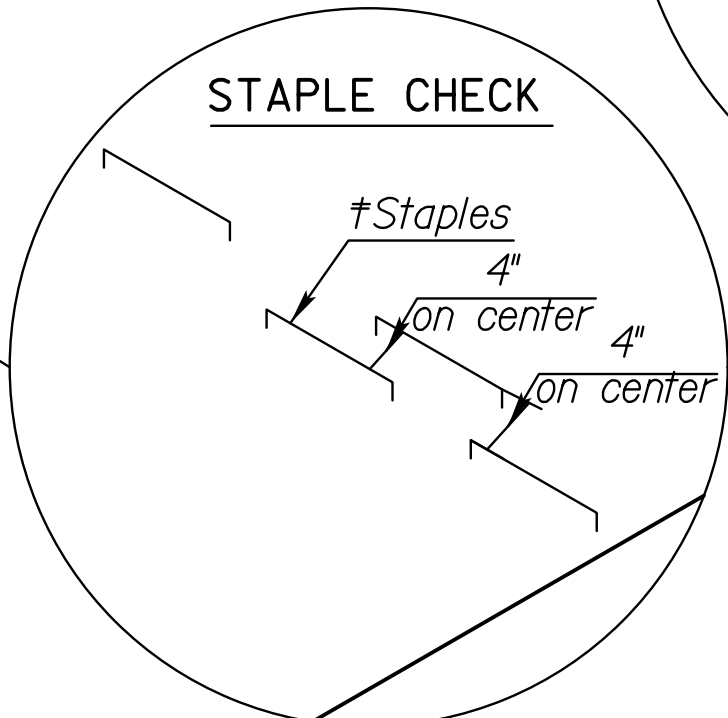


ANCHOR SLOT

Alt. B



STAPLE CHECK



4	3/01/15	Revised Standard	RAA	SHS
3	2/23/15	Revised Standard	RAA	SHS
2	9/15/14	Revised Standard	MRM	SHS
1	9/10/07	Revised Standard	MRM	SHS
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

INSTALLATION DETAIL
EROSION CONTROL CLASS I
SLOPE PROTECTION

LA855

DESIGNED	RAA	DATE	3/10/2015	APP'D	Scott H. Shields
DESIGN CK.	DETAIL CK.	QUAN. CK.	QUAN. CK.	CADD	RAA

KDOT Graphics Certified 07-28-2021

Sheet No.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	36	69

GRASS & WILDFLOWER SEEDING SEASONS

COOL SEASON GRASSES	WARM SEASON GRASSES & WILDFLOWERS
February 15 thru April 20	November 15 thru June 1
August 15 thru September 30	
SPECIES	SPECIES
Bluegrasses	Bermuda Grass
Brome Grasses	Big Bluestem
Canada Wildrye	Blue Grama
Fescues	Buffalo Grass
Prairie Junegrass	Indiangrass
Ryegrasses	Little Bluestem
Sterile Wheatgrass	Sand Bluestem
Tall Dropseed	Sand Dropseed
Western Wheatgrass	Sand Lovegrass
	Side Oats Grama
	Switchgrass
	Wildflower Mixes
When the area to be seeded is 1 acre or more, if Cool Season grasses are mixed with Warm Season grasses, seed the area during the Warm Season.	
When the area to be seeded is less than 1 acre, seed the area any time of the year.	

GENERAL NOTES

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded and mulched. Soil preparation shall conform to the Standard Specifications except as noted below.

All borrow areas shown on the plans are to be fertilized, seeded, and mulched. However, operation in borrow areas where crops are growing may be omitted when requested by the owner.

If temporary cover has provided stable slopes with no erosion, seed the permanent grasses into the existing cover. If there has been erosion that requires repair prior to seeding, then it may be necessary to regrade the area, resulting in bare ground.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P_2O_5, K_2O listed in Summary of Seeding Quantities will be acceptable.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching material is generally as follows:

$1\frac{3}{4}$ - $2\frac{1}{4}$ Tons per Acre = $1\frac{1}{2}$ " loose depth spread uniformly over acre.

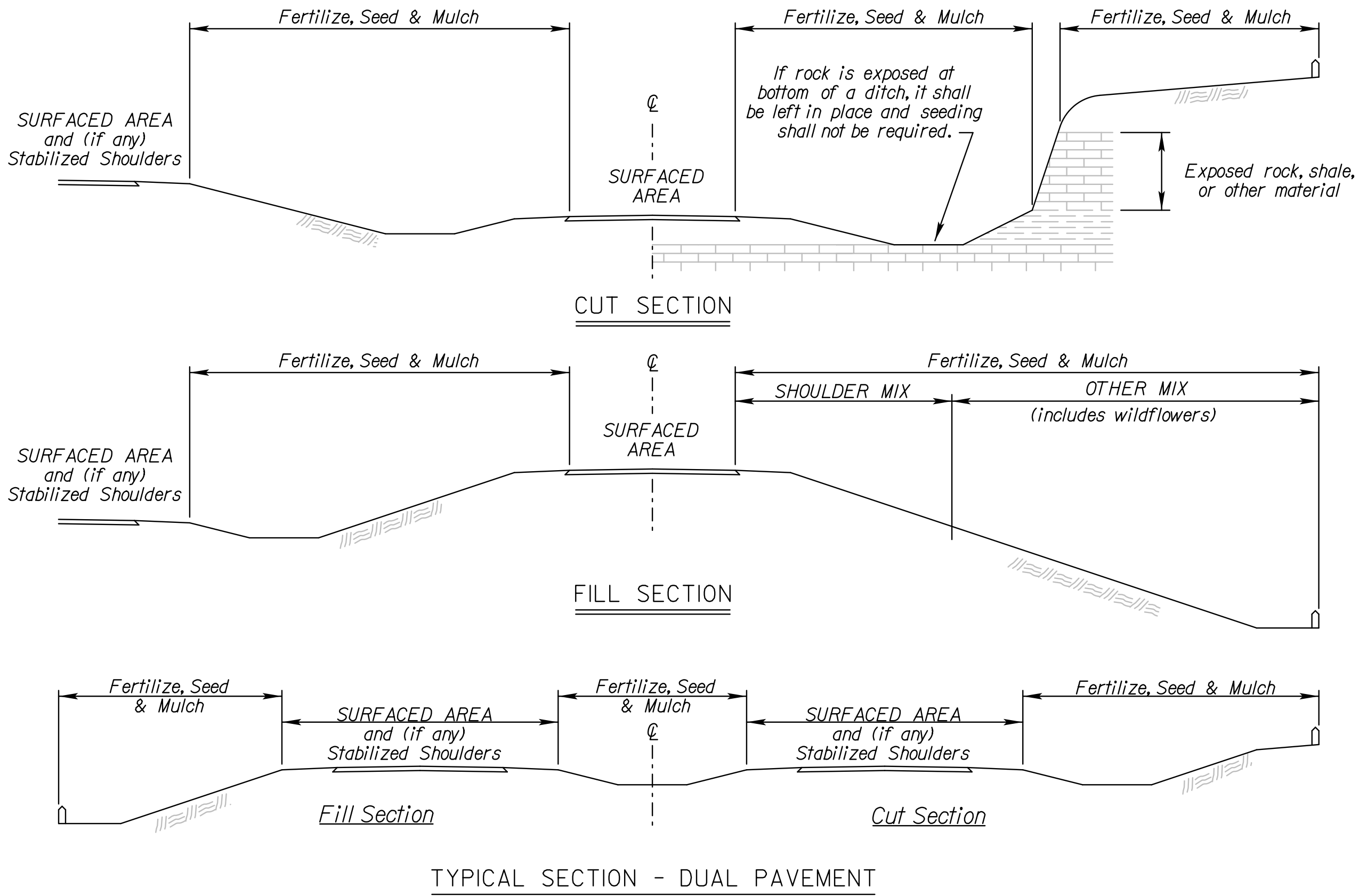
Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

Other vegetative mulches are acceptable only with the Engineer's concurrence.

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

SODDING SEASONS

COOL SEASON GRASSES	WARM SEASON GRASSES
March 1 thru April 15 September 1 thru November 15	May 15 thru September 1
SPECIES	SPECIES
Bluegrass Sod	Buffalo Grass Sod
Fescue Sod	
<p>If the soils workable, the Engineer may allow placement of sod between November 15 and March 1. If sod is placed during this time, maintain the sod until 20 days after the beginning of the spring sodding season.</p>	



NATIVE WILDFLOWER MIX I

PLS RATE	NAME	QTY (lb)
0.3	Butterfly Milkweed	
0.3	Common Milkweed	
0.3	Black Eyed Susan	
0.5	Blanket Flower	
0.5	False Sunflower	
0.5	Lance-Leaf Coreopsis	
0.2	Maximilian Sunflower	
0.1	New England Aster	
0.2	Pinnate Prairie Coneflower	
0.2	Plains Coreopsis	
0.3	Purple Coneflower	
0.3	Upright Prairie Coneflower	
0.3	Dames Rocket	
0.3	Lemon Mint	
0.2	Pitcher Sage	
0.2	Wild Bergamot	
1.0	Illinois Bunchflower	
0.2	Common Evening Primrose	
0.1	Hoary Verbena	
0.8	Purple Prairie Clover	
0.3	Roundhead Lespedeza	
3.0	Showy Partridge Pea	
0.2	White Prairie Clover	
10.3	Total (lb)	

NATIVE WILDFLOWER MIX 2

PLS RATE	NAME	QTY (lb)
0.3	Butterfly Milkweed	
0.3	Black Eyed Susan	
0.5	Black Sampson Coneflower	
1.0	Blanket Flower	
0.2	Maximilian Sunflower	
0.2	Plains Coreopsis	
0.2	Upright Prairie Coneflower	
0.2	Western Yarrow	
0.3	Lemon Mint	
0.4	Pitcher Sage	
1.5	Illinois Bundleflower	
0.2	Common Evening Primrose	
1.0	Blue Wild Indigo	
0.4	Leadplant	
0.4	Purple Prairie Clover	
0.3	White Prairie Clover	
7.4	Total (lb)	

Package and deliver the wildflower seed separately from the grass seed mix. Package and deliver the Tall Drop Seed separately from the grass seed and the wildflower mix. Place the grass seed (except Tall Drop Seed) in the large seed box and drill (cover) seed $\frac{1}{8}$ " - $\frac{1}{4}$ ". Place the wildflower seed in a separate seed box and drill (cover) seed $\frac{1}{16}$ " maximum. Place the Tall Drop Seed in a separate (third) seed box and place the seed (using the seed drill) on the soil surface.

OPTION: Broadcast Tall Drop Seed on the soil surface.

SUMMARY OF SEEDING QUANTITIES

[illegible]

SHLDR = Seeded with the Shoulder Mix. Typically 15 feet for 2-lane roads and 30 feet for 4-lane roads. Includes outside roadsides, turfed portions of shoulders, and turfed portion of the median.

OTHER = Seeded with the "Other" Mix. Designated as all other turf areas, except the Shoulder. Usually includes a Native Wildflower Mix.

NOTE: Projects less than 1 acre shall be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per acre. The acres are estimated.

Refer to the Standard Specifications, Division 900, Section 904 'Seeding', and Section 907 'Sodding', for the seeding and sodding seasons.

* See LA852A for mulching quantity. The quantity of mulch is estimated (Acres of Seeding X 1.5 X 2 Tons/Acre). The total mulch required shall be determined in the field. The bid item for mulching shall be paid for according to the Standard Specifications.

2	11/25/20	Updated Seeding / Sodding Periods Charts	MRD	ML
1	08/03/20	Revised Standard	MRD	SHS
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

PERMANENT SEEDING SUMMARY OF SEEDING QUANTITIES

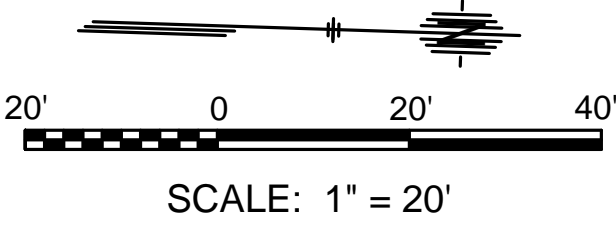
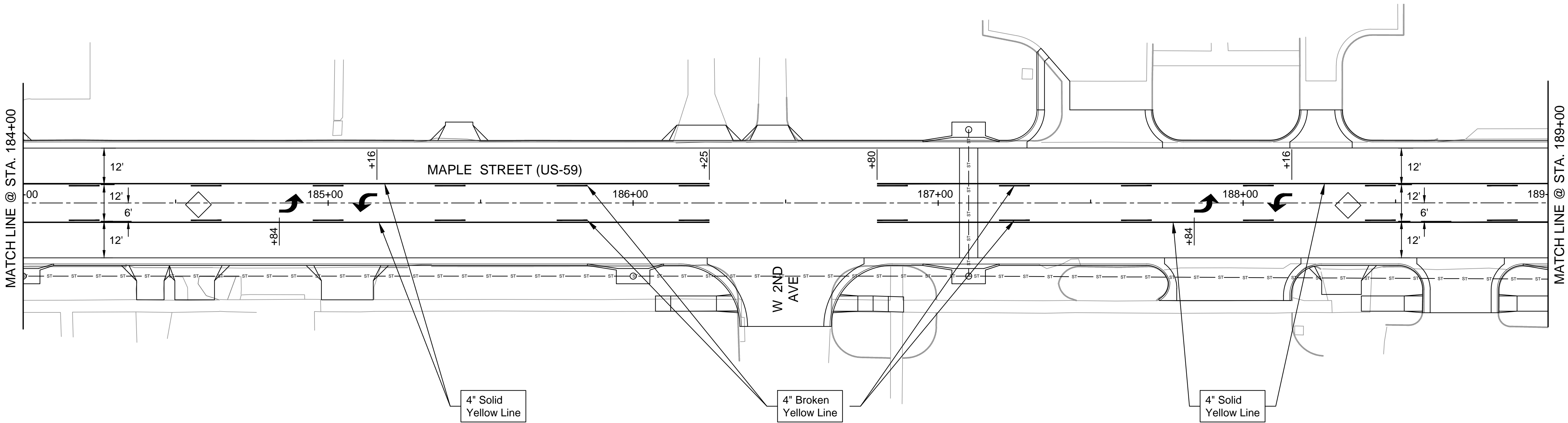
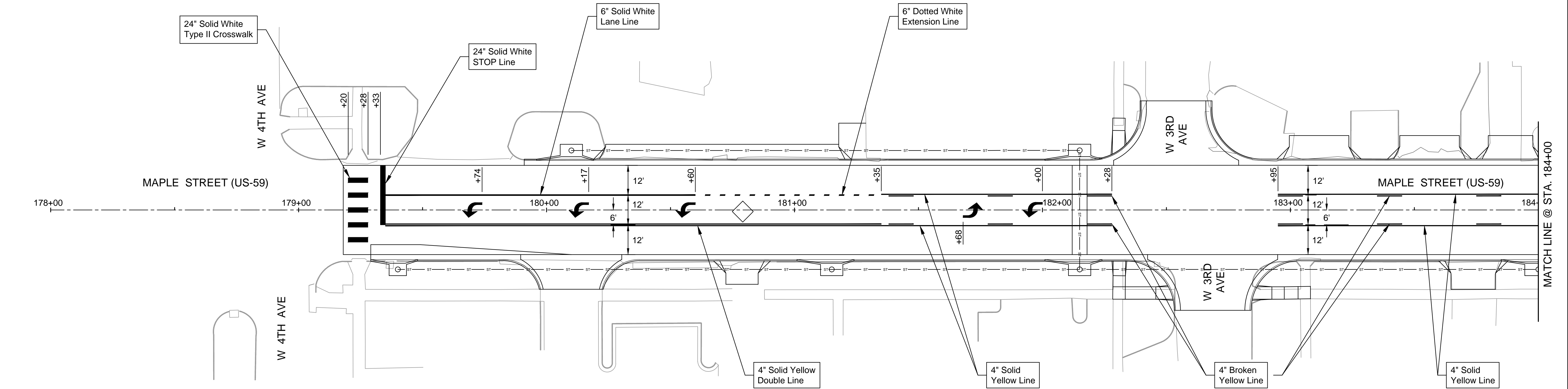
LA850

FHWA APPROVAL		05/06/2019	APP'D	Mervin Lare
DESIGNED	MRD	DETAILED	MRD	QUANTITIES
DESIGN CK.		DETAIL CK.		CADD
				CADD CK.

PAVEMENT MARKING NOTES

1. ALL EXISTING PAVEMENT MARKINGS THAT ARE REMOVED BY TRAFFIC CONTROL ACTIVITIES SHALL BE REPLACED TO MATCH THE EXISTING PAVEMENT MARKINGS.

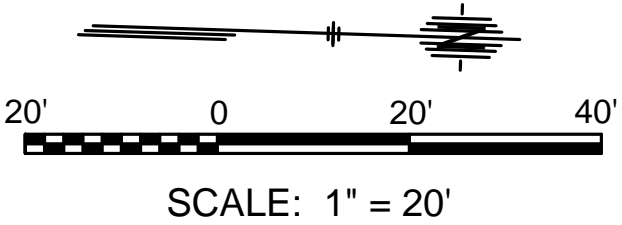
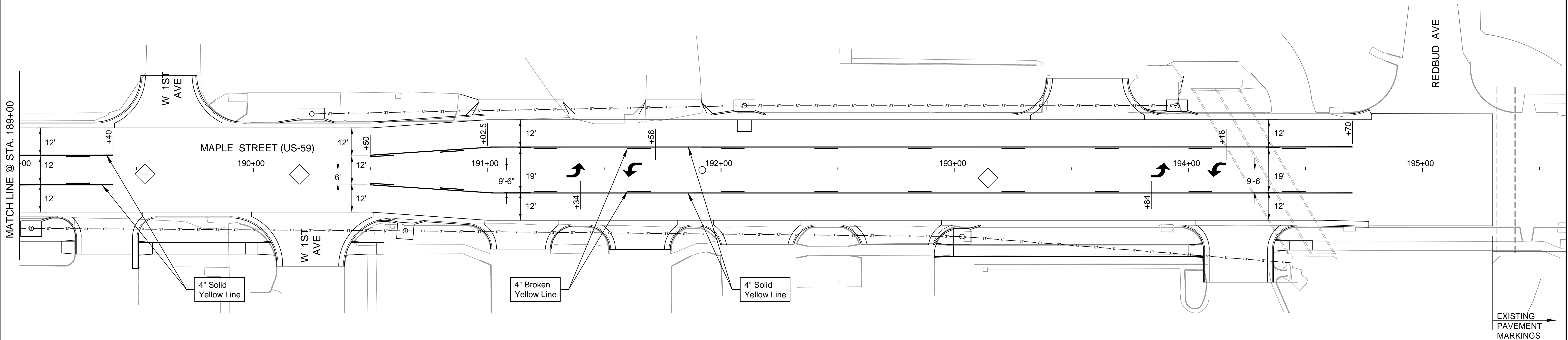
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	37	69



KANSAS DEPARTMENT OF TRANSPORTATION

MAPLE STREET (US-59)
PAVEMENT MARKING PLANS

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	38	69



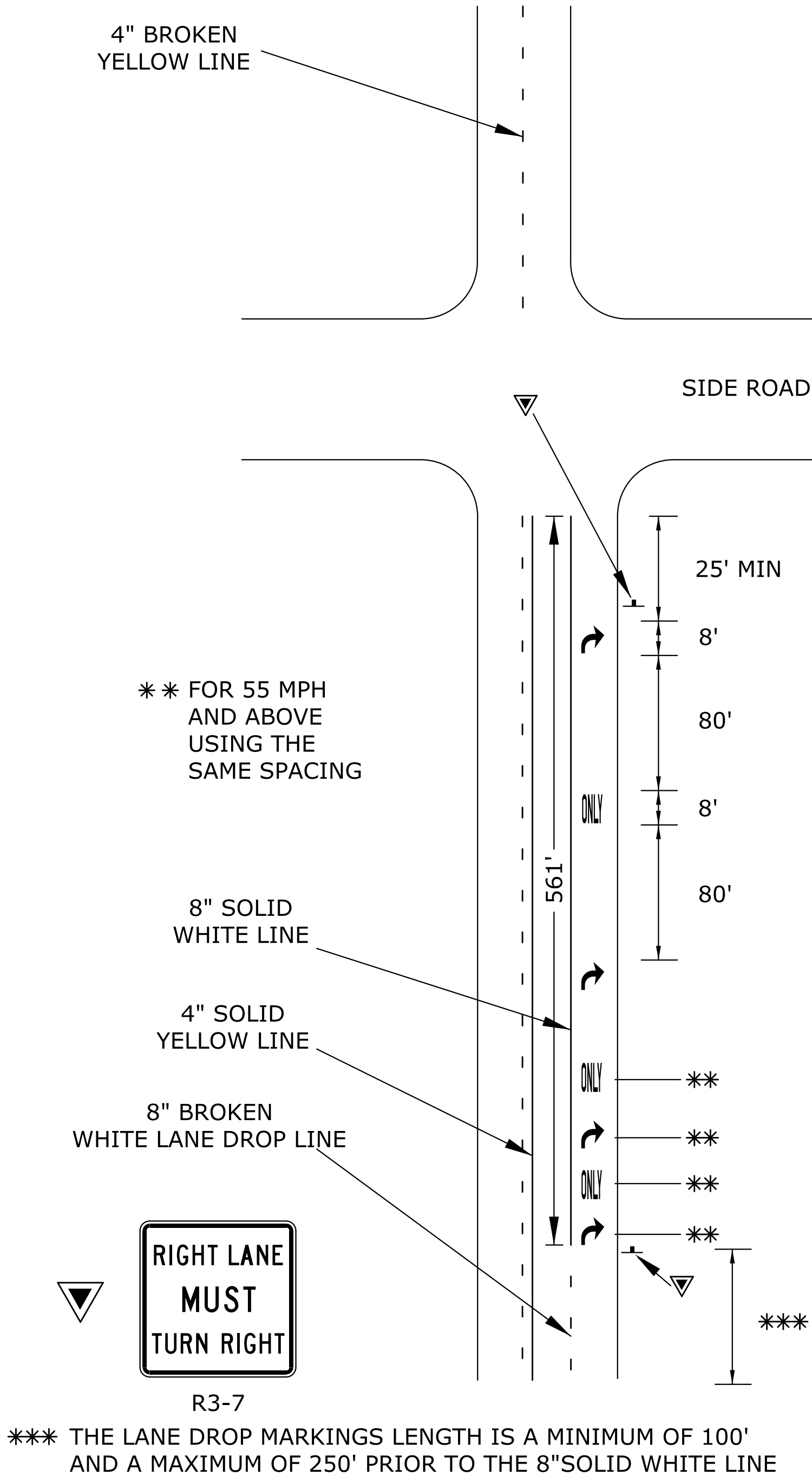
KANSAS DEPARTMENT OF TRANSPORTATION

MAPLE STREET (US-59)
PAVEMENT MARKING PLANS

BG PROJECT #19-1514L

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	40	69

TYPICAL SIGNING AND MARKING
FOR RIGHT LANE MUST TURN RIGHT



RAILROAD CROSSING MARKING

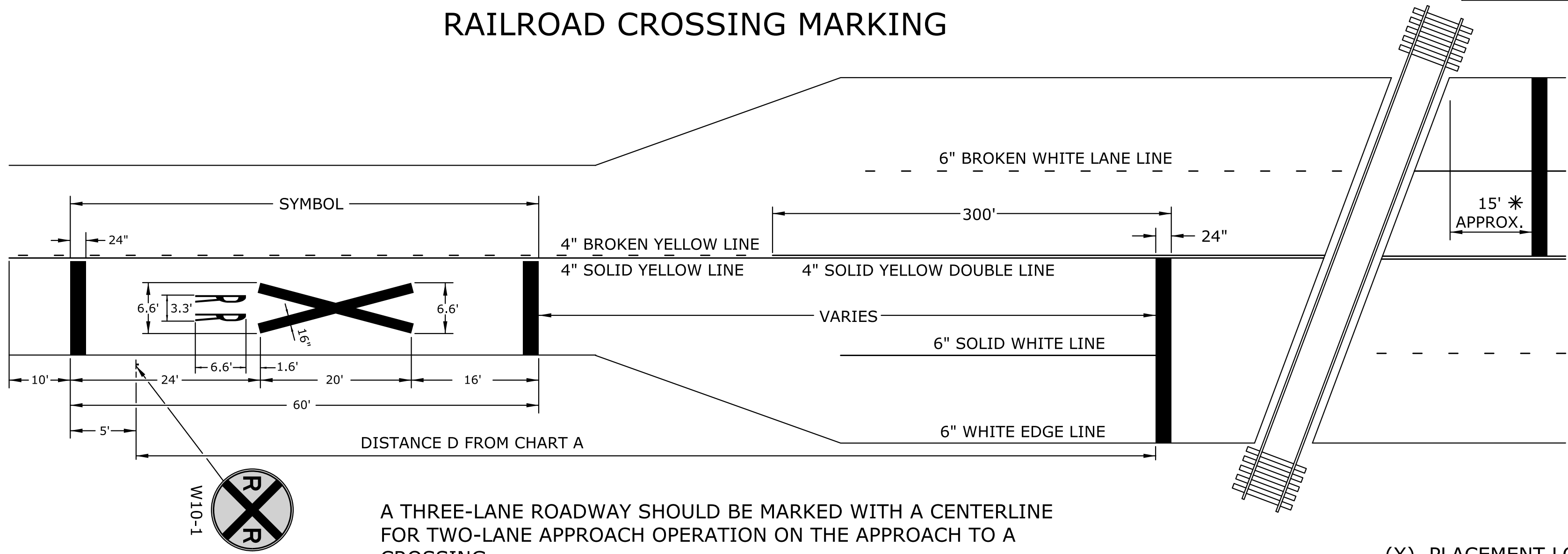


CHART "A"

SPEED MPH	DISTANCE D (feet)
75	850
70	750
65	650
60	550
55	450
50	375
45	300
40	225
35	150
30	(X)
25	(X)
20	(X)

ALL DISTANCES ARE MINIMUM.

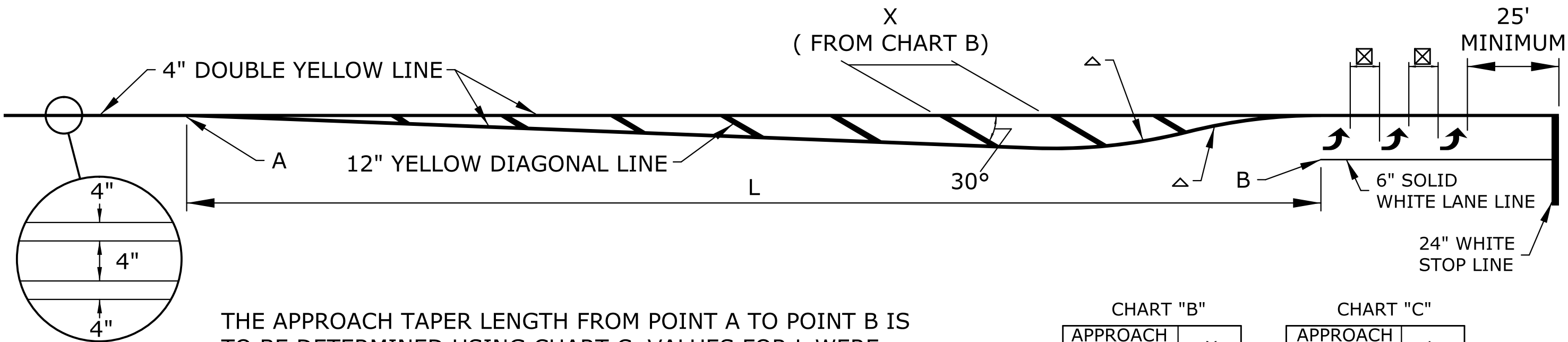
(X) PLACEMENT LOCATION IS DEPENDENT ON SITE CONDITIONS AND OTHER SIGNING TO PROVIDE ADEQUATE ADVANCE WARNING TO THE DRIVER

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. REFER TO STANDARD ALPHABET FOR HIGHWAY SIGNS AND MARKINGS FOR R X R SYMBOLS DETAILS.

*STOP LINE 8' FROM NEAR EDGE OF GATE OR CANTILEVER, IF PRESENT.

NOTE:
ON NON I, US, AND K ROUTES, 4" EDGE LINES MAY BE INSTALLED.
6" EDGE LINES ARE NOT REQUIRED ON NON I, US, AND K ROUTES.

TYPICAL
APPROACH TAPER DETAIL



THE APPROACH TAPER LENGTH FROM POINT A TO POINT B IS TO BE DETERMINED USING CHART C. VALUES FOR L WERE CALCULATED USING THE EQUATIONS BELOW AND INCREASED TO THE NEXT HIGHER 5 MPH INCREMENT.

- SPEEDS < 45 MPH $L = \frac{W * S^2}{60}$

- SPEEDS = 45 MPH $L = W * S$

IF ARROWS ARE USED AND UNLESS OTHERWISE SPECIFIED THE SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS, UNDER ANY CONDITIONS.

FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH, R=150'.
FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, R=300'.

CHART "B"

APPROACH SPEED	X
20 MPH	20'
25 MPH	25'
30 MPH	30'
35 MPH	35'
40 MPH	40'
45 MPH	45'
50 MPH	50'
55 MPH	55'
60 MPH	60'
65 MPH	65'
70 MPH	70'

CHART "C"

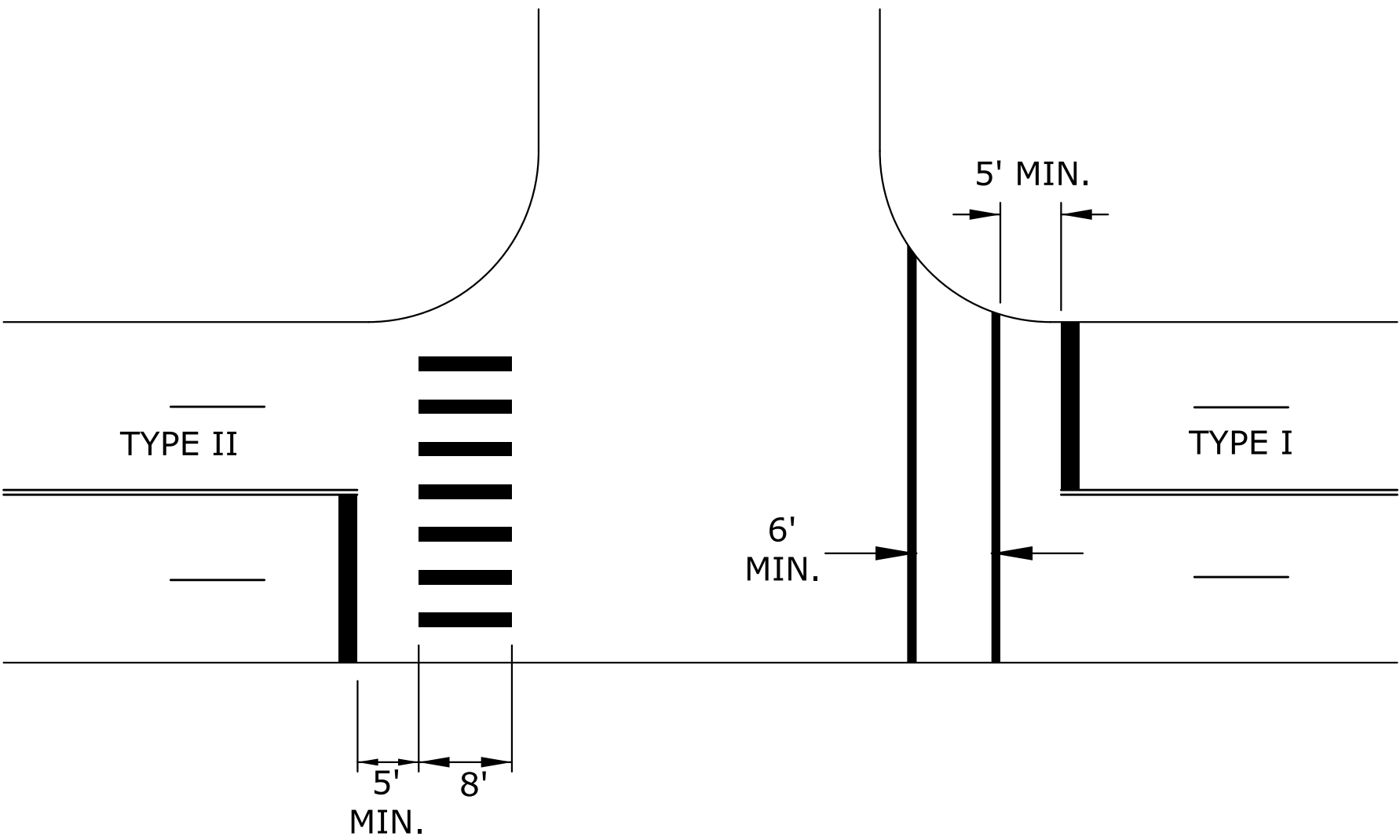
APPROACH SPEED	L
20 MPH	80'
25 MPH	125'
30 MPH	180'
35 MPH	245'
40 MPH	320'
45 MPH	540'
50 MPH	600'
55 MPH	660'
60 MPH	720'
65 MPH	780'
70 MPH	840'

TYPICAL CROSSWALKS

TYPE I: CROSSWALK LINES SHALL BE 12" SOLID WHITE LINES. THEY SHALL BE SPACED A MINIMUM OF 6' APART FROM INSIDE EDGE TO INSIDE EDGE.

TYPE II: THESE LINES SHOULD BE SOLID WHITE 24" WIDE PLACED PARALLEL TO THE DIRECTION OF TRAFFIC FLOW. THE LINE PLACEMENT IS DETERMINED BY LANE LINE, CENTER LINE, AND WHEEL PATH IN SUCH A MANNER AS TO MINIMIZE TRAFFIC WEAR. THE CROSSWALK WIDTH SHOULD BE NOT LESS THAN 8'. THE TRANSVERSE CROSSWALK LINES MAY BE ADDED.

WHEN REQUIRED, STOP LINES SHALL BE INSTALLED A MINIMUM OF 5' FROM CROSSWALKS.



3	5/25/12	Updated Chart B and Lane Drop Lines	B.A.H.	B.D.G.
2	10/20/06	RR Xing Symbol Changed from 18" to 16"	T.L.H.	B.D.G.
1	9/20/05	Added 4" Solid Yellow Double Line to RR Xing	J.F.F.	B.D.G.
NO.	DATE	REVISIONS	BY	APPD
KANSAS DEPARTMENT OF TRANSPORTATION				
TYPICAL				
MISCELLANEOUS				
PAVEMENT MARKING				
DETAIL SHEET				
TE309				
FHWA APPROVAL 7/26/2005 APPD Brian D. Gower				
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTITIES
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN. CK.
TRACED				
TRACE CK.				

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	41	69

SUMMARY OF PAVEMENT MARKINGS

[illegible]

RECAPITULATION OF QUANTITIES

ITEMS	TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")	149	FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")	1,896	FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(12")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(4")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(6")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(8")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(12")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(4")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(6")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")	64	FT
PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")		FT
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)(LT ARROW)	13	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(US-SHIELD)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(K-SHIELD)()		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(I-SHIELD)()		EACH
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING REMOVAL		FT

SUMMARY OF WORD & SYMBOL MARKINGS

[illegible]

NOTE: FOR SPECIFIC PAVEMENT MARKING DETAILS AND DIMENSIONS SEE PLAN SHEETS

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED.

NOTE:
WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF
"STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT
MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION,
FEDERAL HIGHWAY ADMINISTRATION.

PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF "NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE.

2	5/25/12	Added Line Types, Symbols, and Shields	B.A.H.	B.D.G.
1	7/26/05	New FHWA Approval Date	J.F.F.	B.D.G.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION SUMMARY AND RECAPITULATION OF PAVEMENT MARKING QUANTITIES

TE311

FHWA APPROVAL		5/25/2012		APP'D Brian D. Gower	
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTITIES	TRACED
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN. CK.	TRACE CK.

KDOT Graphics Certified 07-17-2018

Sh. No. XXX

Plotted: 17-JUL-2018 11:35
Traffic

Drawn By : mushock
File : te311.dgn

Traffic

DOT Graphics Certified

Plotted by : KDOT#CADD.Support@ks.gov 18-DEC-2019 01:15
File : te402.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
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SYMBOL KEY

	REMOVE SIGN
	REMOVE POST
	REMOVE FOOTING
	REMOVE SIGN & POST
	REMOVE POST & FOOTING
	REMOVE SIGN, POST, & FOOTING
	MOUNT ON WOOD POST IN CONCRETE FOOTING
	MOUNT ON WOOD POST IN SOIL
	MOUNT ON STEEL BEAM BREAKAWAY POST
	MOUNT ON STEEL U-POST
	MOUNT ON PSST POST
	MOUNT ON EXISTING POST
	MOUNT ON VERTICAL SUPPORT
	SHOULDER MOUNTED INSTALLATION
	OFFSET MOUNTED INSTALLATION
	EXISTING SIGN
	EXISTING SIGN TO BE OVERLAID
	SIGN IS NOT PART OF PROJECT
	TYPE 'A' DELINEATOR (RIGID)
	TYPE 'A' DELINEATOR (RIGID) (BK-BK)
	TYPE 'B' DELINEATOR (RIGID)
	TYPE 'A' DELINEATOR (FLEXIBLE)
	TYPE 'A' DELINEATOR (FLEXIBLE) (BK-BK)
	TYPE 'B' DELINEATOR (FLEXIBLE)
	TYPE 2 OBJECT MARKER
	TYPE 3 OBJECT MARKER
	TYPE 3 OBJECT MARKER (BK-BK)

GENERAL NOTES

In order to expedite the completion of the project for traffic service, the signing and delineator work shall be sequenced with any other contract work such that the phases of construction may proceed and be completed at the same time.

New signs erected on the project which are in conflict with existing signing are to be completely covered until the existing signs are removed or the new signing is applicable. The existing signs that are being replaced, removed, or do not follow the current MUTCD signing standards are to be removed when the project is completed or as determined by the Engineer.

The Contractor shall exercise caution at all times when installing sign supports in and around areas where utilities exist, either underground or overhead, and will be held responsible for any damage incurred to the system. The installation of sign supports shall include the excavation, drilling, or driving the support footing and the erection of the sign support. The contractor shall exercise caution when working around any existing signs that are to remain and will be held responsible for any damage to the signs, supports, or footings. The Contractor shall exercise care when working around shrubbery while removing or installing signs or sign supports.

An existing sign post installation shall be plumb and the compaction of the backfill soil shall comply with the specifications after the removal and resetting of a sign, the removal and replacement of a sign, or the installation of a new sign.

The Contractor shall provide mounting bolts that are of a length that does not extend more than a nominal 1 inch beyond the sign post. The Contractor shall not make any field modifications to the mounting bolt prior to or after the sign is installed.

Specific service (LOGO) signs that are to be removed shall have the business logo plaques removed and transported to location determined by KDOT, at which time the plaques become the property of KDOT. The Contractor will be assessed a replacement cost for any damage to a business logo plaque prior to the plaque becoming the property of KDOT.

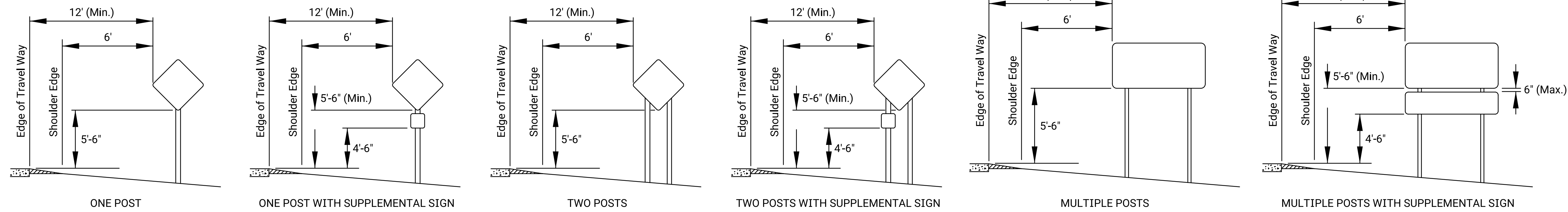
The materials and fabrication for signing and delineation work shall conform to the Standard Specifications for State Road and Bridge Construction (2015 edition) and Special Provisions.

INDEX OF SHEETS

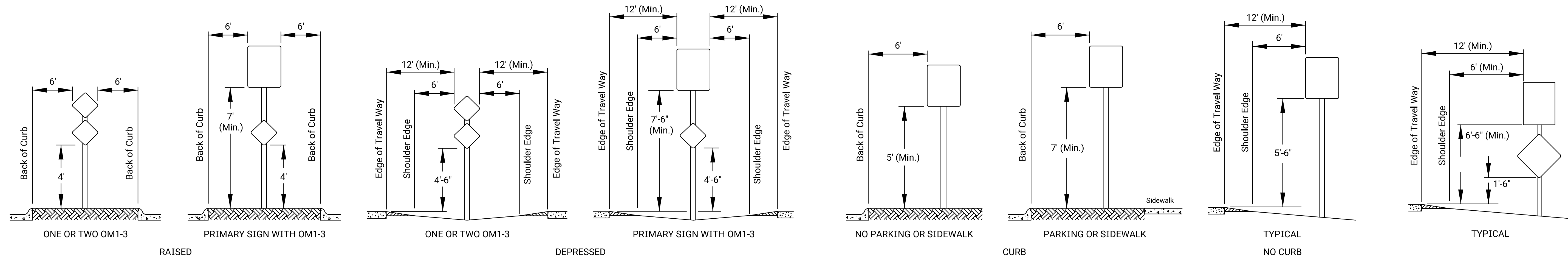
- 42 SIGNING INDEX, SYMBOLS, & GENERAL NOTES
POST SPACING & SIGN ANGLE DETAILS
- 43 HEIGHT & LATERAL DISTANCE FOR ERECTION
POSITIONING, DESIGN, & MOUNTING OF DELINEATORS
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MOUNTING OF SIGNS ON WOOD POSTS
MOUNTING OF FLAT SHEET SIGNS ON STEEL I-BEAM POSTS
MOUNTING OF REINFORCED PANEL SIGNS ON I-BEAM POSTS
- 49-51 DETAILS FOR FLAT SHEET SIGN BLANKS
DETAILS FOR PROCESSED SIGNS
DETAILS FOR REINFORCED PANELS
DETAILS FOR GUIDE SIGN LEGEND
DETAILS FOR GUIDE SIGNS
- 52 DETAILED SIGN SPECIFICATIONS

2	10/01/19	Changed symbols, notes, & index	D.D.G.	E.W.N.
1	7/23/10	Changed General Notes and Spec Book Date	D.D.G.	D.B.
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION SIGNING SYMBOL KEY GENERAL NOTES AND INDEX				
TE402			7/1/03	
FHWA APPROVAL		10/01/2019	APP'D	Steven A. Buckley
DESIGNED	D.D.G.	DETAILED	W.S.B.	QUANTITIES
DESIGN CK.	S.A.B.	DETAIL CK.	D.D.G.	QUAN. CK.
				TRACED
				TRACE CK.

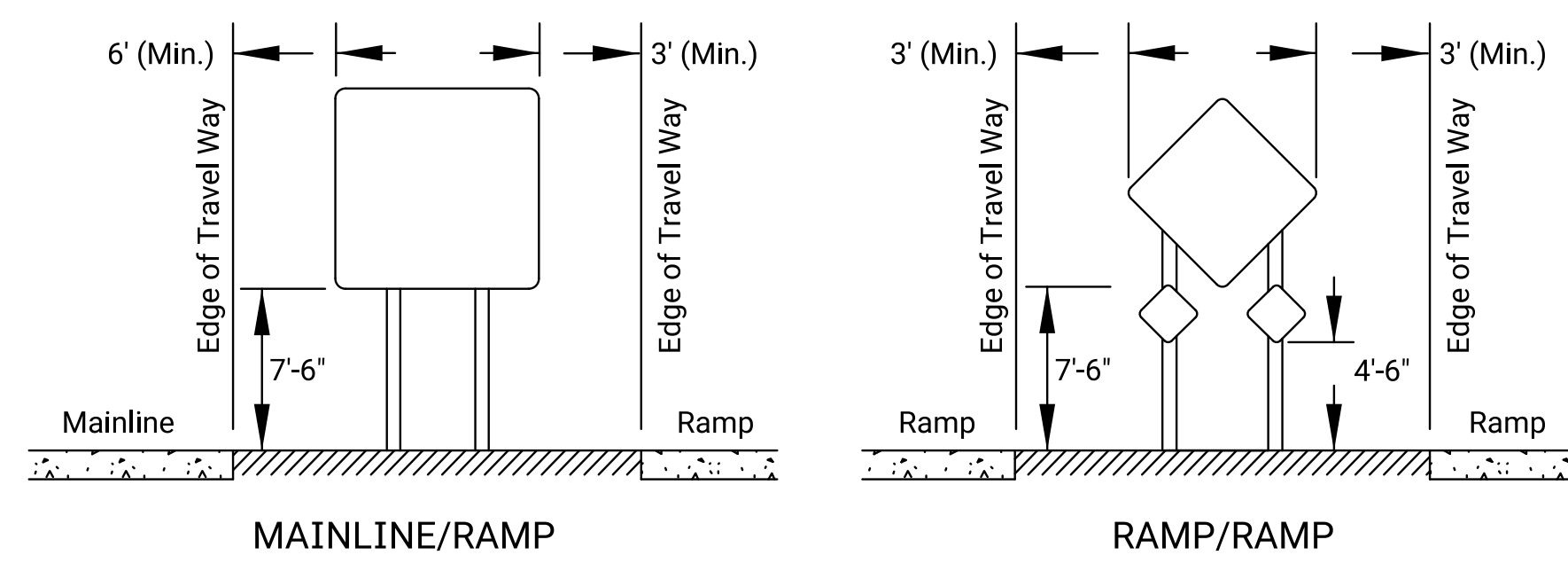
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	43	69



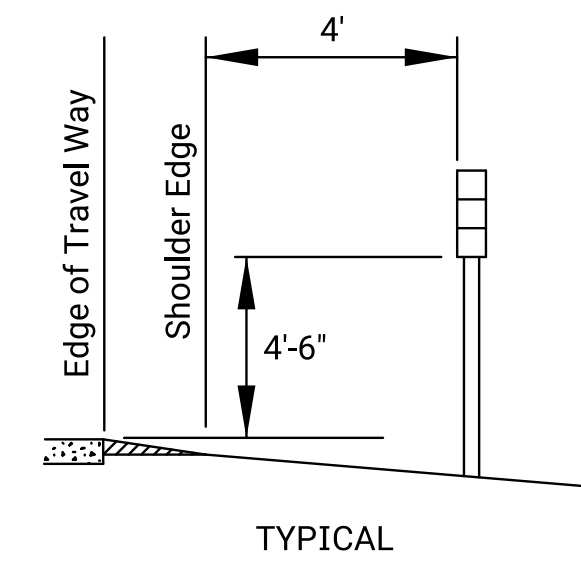
CONVENTIONAL HIGHWAY AND SIDE ROADS



MEDIANS AND ISLANDS

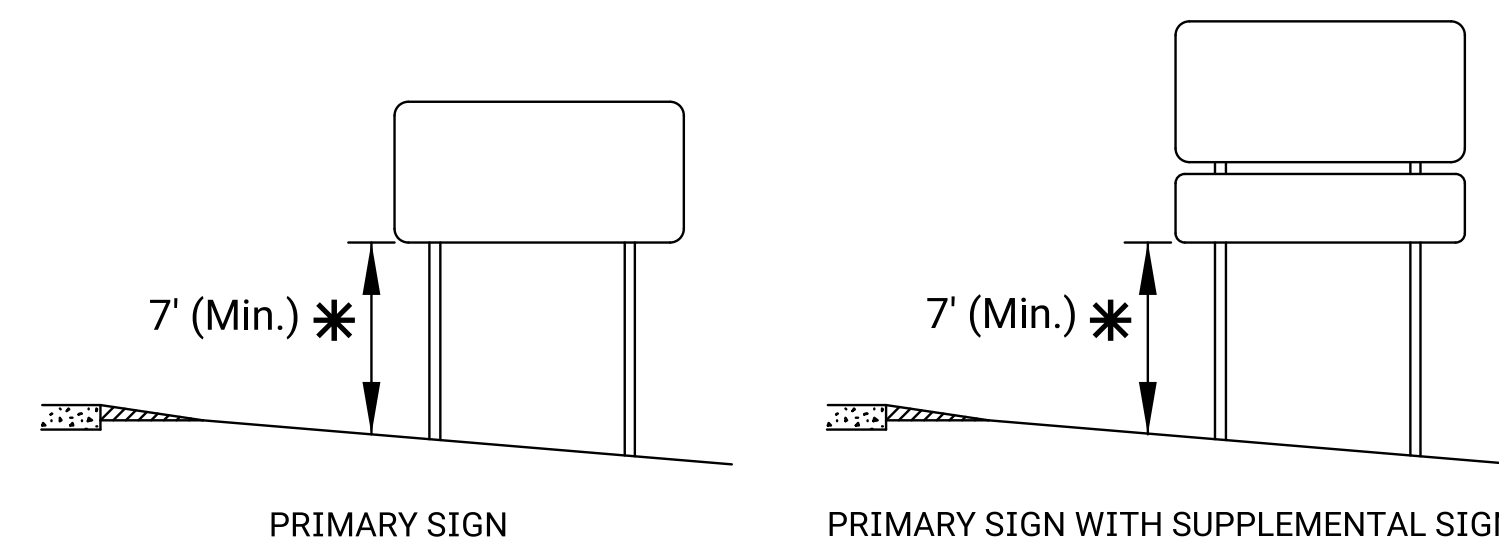


HIGHWAY GORES



Reference Marker Post: 2 Lb/Ft "U" Post

REFERENCE MARKERS



*NOTE: Measured from the nearest point between the sign and the groundline.

GROUND CLEARANCE FOR STEEL BEAM POSTS

NOTES

The "Edge of Travel Way" is the edge line or the edge of the driving lane.

The outer edge of the sign shall not extend beyond the right of way line.

A minimum lateral clearance of 6' from pavement edge may be used where lateral offsets are limited.

In business, commercial, or residential districts where with limited lateral offsets, a minimum lateral clearance of 2' with a 7'-6" minimum mounting height may be used.

When signs are behind guard rail, the near edge of the sign shall not extend beyond the back side of the guard rail and the nearest sign post shall be a minimum of 5' from the face of the guard rail. Shoulder mounted shall not be located between 100' in advance of and 50' beyond the nose of the guard rail.

When the median or island is too narrow for the typical lateral placement, the sign may be placed a minimum of 2' from the back of the curb. In no case shall the sign edge extend beyond the back edge of the curb.

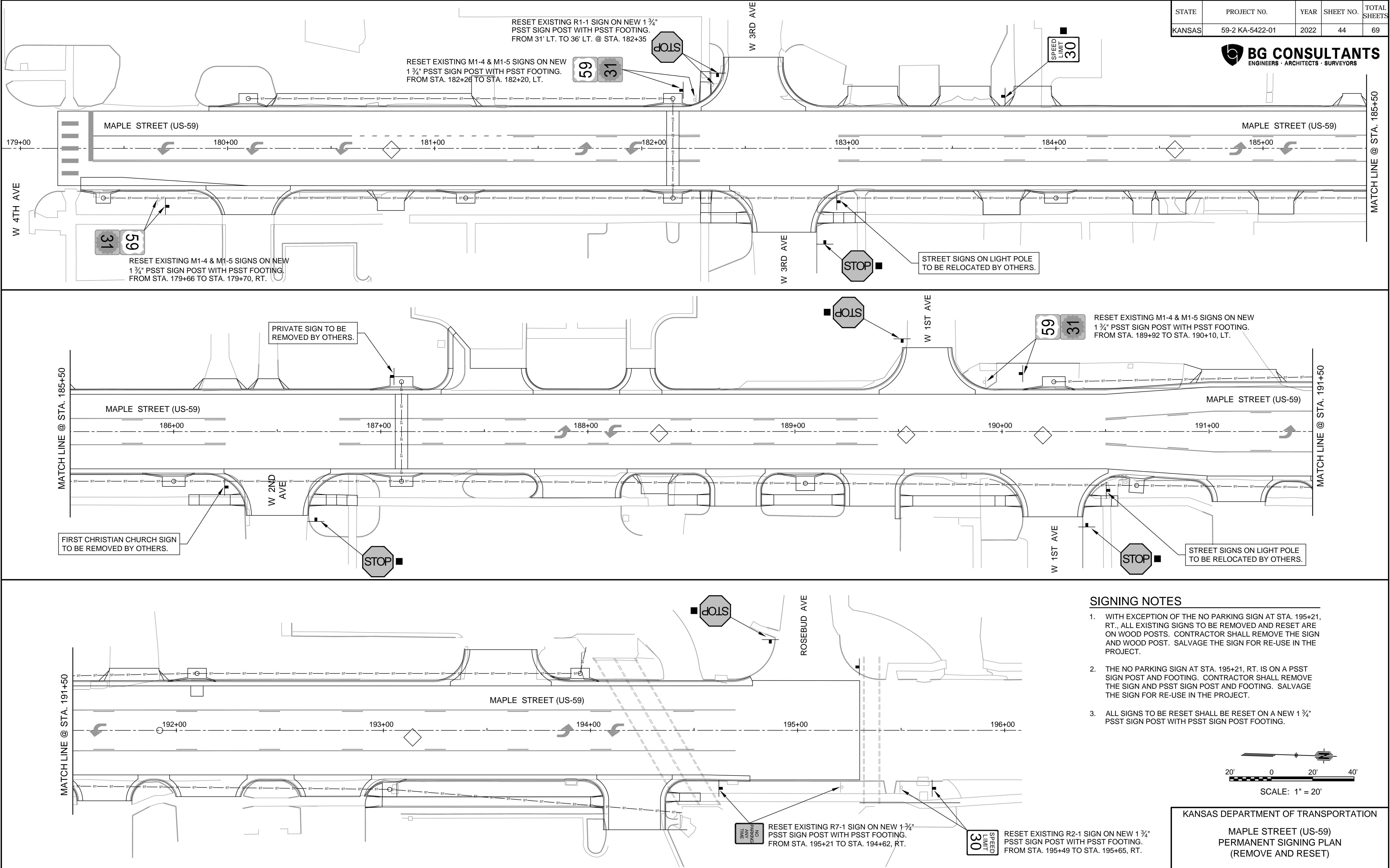
The gore sign shall be installed in the paved gore area. The edges of the gore sign shall not extend beyond the shoulder edge. The minimum distance from the centerline of the posts to the back of the paved gore area is 2'.

Signs may be moved laterally or longitudinally if it will improve visibility of the sign or other signs or if it will protect the sign more. The maximum allowable longitudinal adjustment is 100', with the exception of the reference marker which is 50'.

The minimum spacing between signs, excluding reference markers is 100'.

NO.	DATE	REVISIONS					BY	APPD	
<p align="center">KANSAS DEPARTMENT OF TRANSPORTATION</p> <p align="center">MOUNTING HEIGHT & LATERAL OFFSET</p> <p align="center">FOR CONVENTIONAL HIGHWAYS,</p> <p align="center">SIDE ROADS, MEDIANS, ISLANDS,</p> <p align="center">GORES, AND URBAN ROADWAYS</p>									
TE407								10/01/19	
FHWA APPROVAL		10/01/2019		APPD	Eric W. Nichel				
DESIGNED	D.D.G.	DETAILED	D.D.G.	QUANTITIES	TRACED				
DESIGN CK.	E.W.N.	DETAIL CK.	E.W.N.	QUAN. CK.	TRACE CK.				

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	44	69



Plotted by : KDOT#CADD.Support@ks.gov 18-DEC-2019 01:21
File : te439.dgn

SIGNS		
TYPE	NUMBER	SQUARE FEET
FLAT SHEET		
REINFORCED PANEL		
OVERLAY		

DELINEATORS				
TYPE	FLEXIBLE DELINEATOR		RIGID DELINEATOR	
	TYPE I ANCHOR	TYPE III ANCHOR	"U" POST	BRACKET MOUNT
TYPE 'A' WHITE				
TYPE 'A' YELLOW				
TYPE 'B' WHITE				
TYPE 'B' YELLOW				
TYPE 'A' WHITE (BACK TO BACK)				
TYPE 'A' YELLOW (BACK TO BACK)				

OBJECT MARKERS			
TYPE			NUMBER
TYPE 2 ("U" POST)			
TYPE 3 ("U" POST)			
INFORMATION ONLY	OM3-L		<div></div>
	OM3-R		
	OM3-C		
TYPE 3 ("U" POST) (BACK TO BACK)			

NUMBER & LENGTHS OF POSTS & ALUMINUM BEAMS (INFORMATION ONLY)																
LENGTH OF POST OR BEAM	4" x 6" POST			312.25 ALUMINUM BEAM	"U" POST		GALVANIZED STEEL BEAM POST						PERFORATED SQUARE STEEL TUBE (PSST)			
	WOOD		STEEL				W6x9		W10x12		W10x22					
	FLAT SHEET SIGN	REINFORCED PANEL SIGN	STRUCTURAL TUBING		2 LBS/FT	3 LBS/FT	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	1-3/4"	2"	2-1/4"	2-1/2"
2.1' - 4'																
4.1' - 6'																
6.1' - 8'																
8.1' - 10'																
10.1' - 12'												6				
12.1' - 14'																
14.1' - 16'																
16.1' - 18'																
18.1' - 20'																
20.1' - 22'																
22.1' - 24'																
24.1' - 26'																
26.1' - 28'																
28.1' - 30'																
30.1' - 32'																

SUMMARY OF QUANTITIES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	45	69

POSTS AND ALUMINUM BEAMS																
	4" x 6" POST			312.25 ALUMINUM BEAM	"U" POST		GALVANIZED STEEL BEAM POST						PERFORATED SQUARE STEEL TUBE (PSST)			
	WOOD		STEEL				W6x9		W10x12		W10x22					
	FLAT SHEET SIGN	REINFORCED PANEL SIGN	STRUCTURAL TUBING		2 LBS/FT	3 LBS/FT	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	1-3/4"	2"	2-1/4"	2-1/2"
NUMBER												6				
FEET												72				

POST FOOTINGS AND BRACKETS											
	CONCRETE FOOTING (DIA.)					PERFORATED SQUARE STEEL					
	WOOD	A36 STEEL		A572 STEEL (ALT)		TUBE FOOTING				BRACKET	
	18"	24"	30"	24"	30"	1-3/4"	2"	2-1/4"	2-1/2"	1-3/4"	2"
NUMBER						6					
FEET											

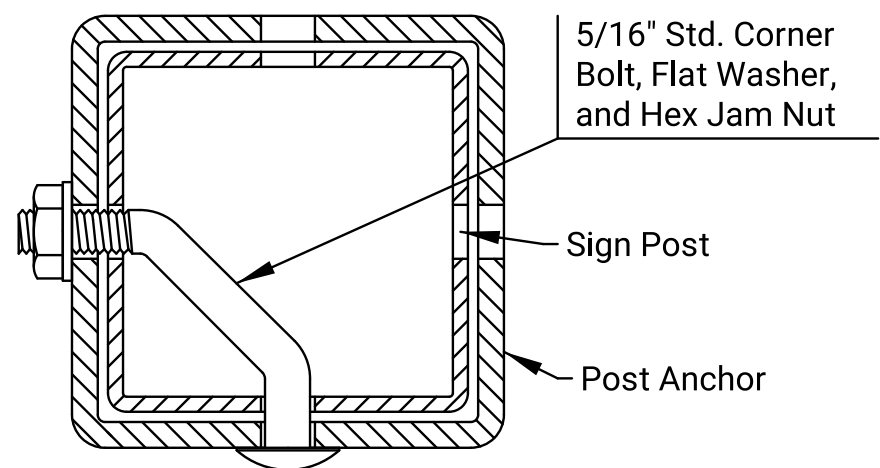
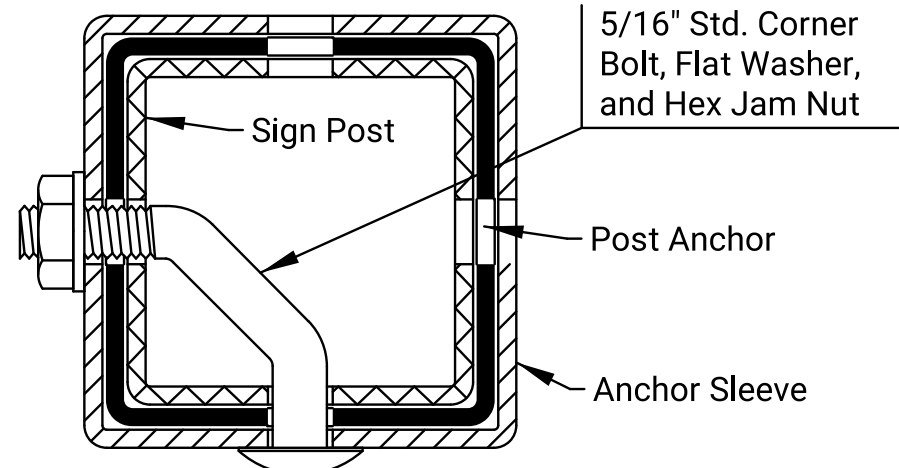
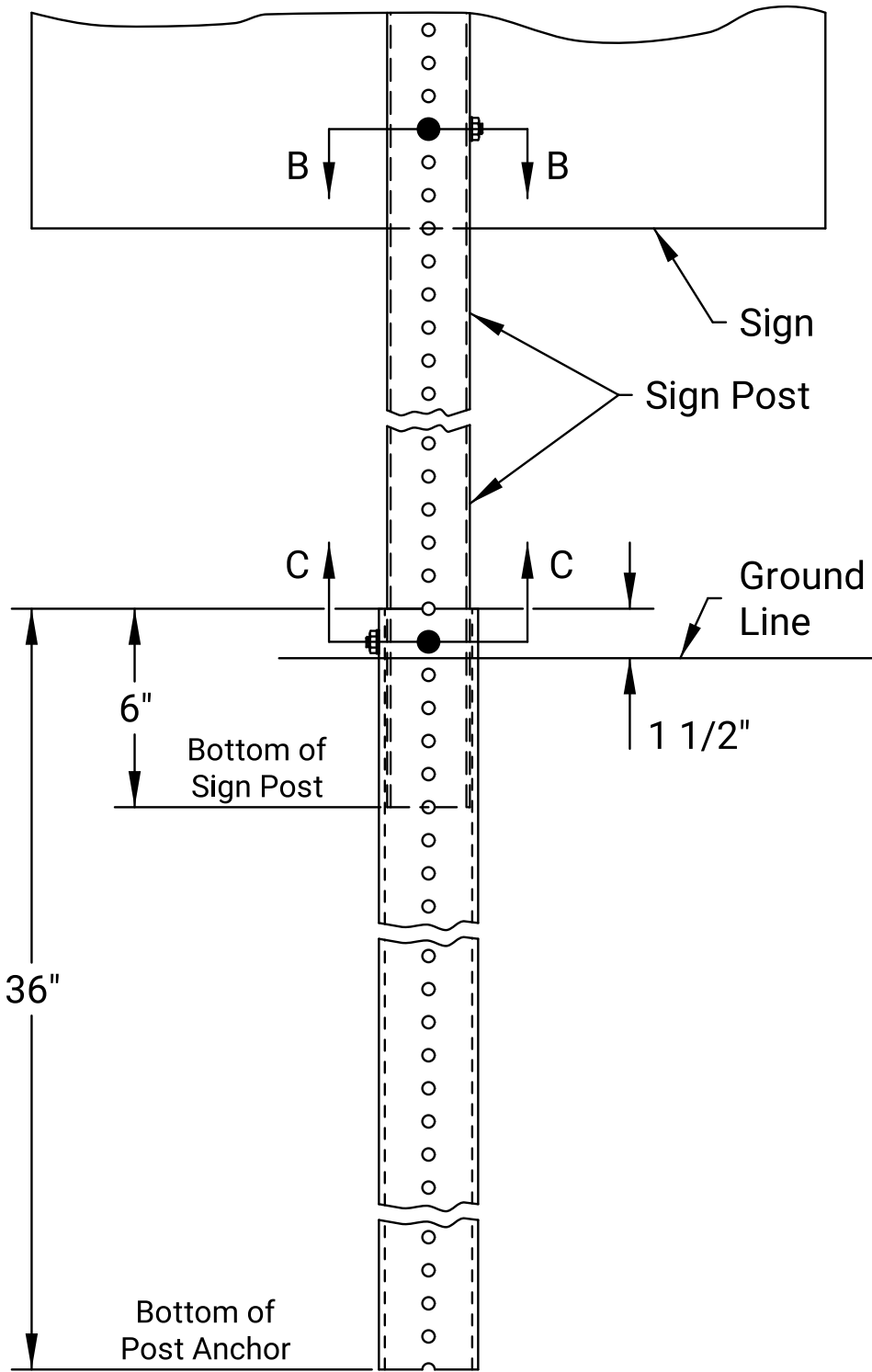
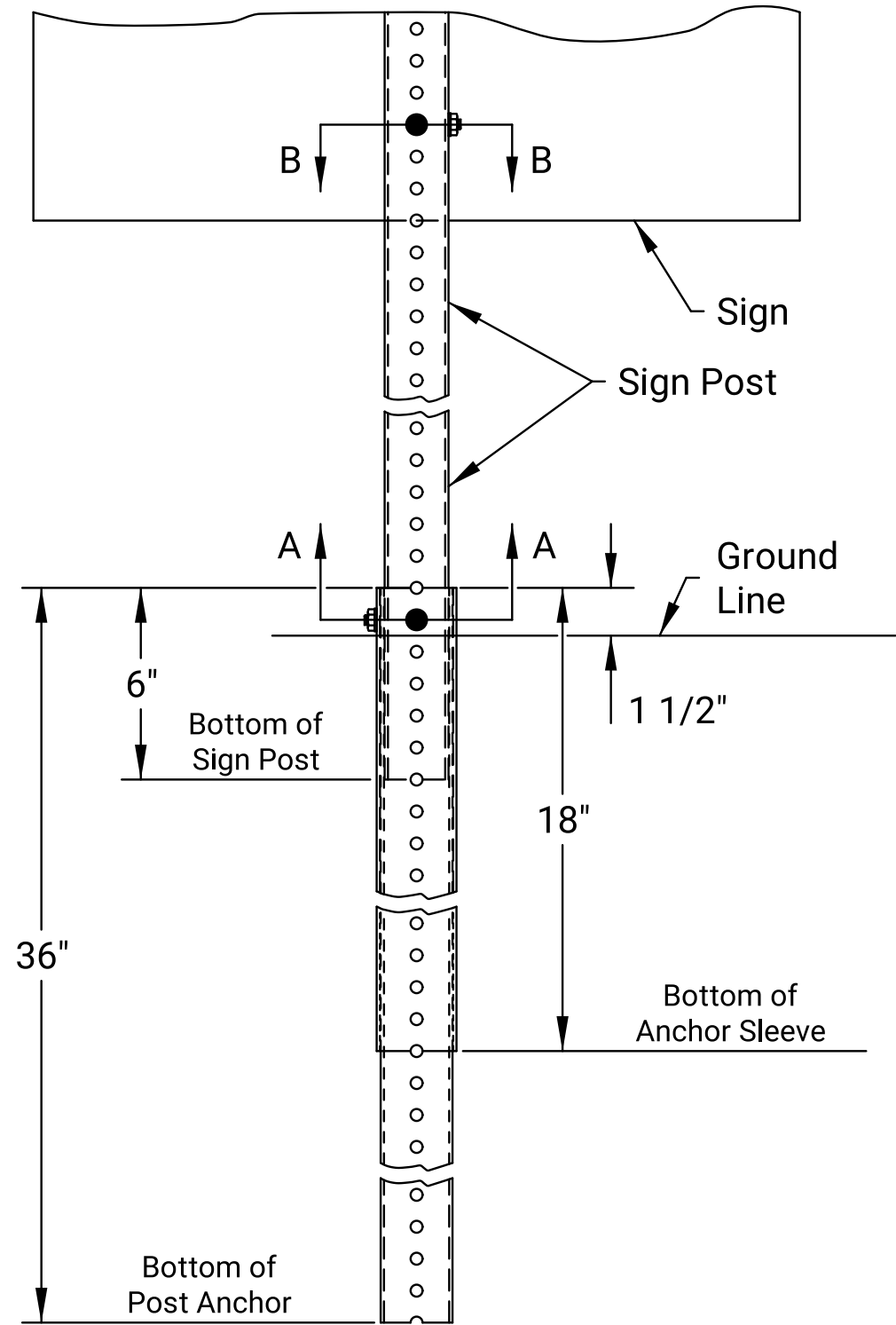
BASE PLATES AND STUB POSTS						
	W6x9		W10x12		W10x22	
	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)
BREAKAWAY BASES						
BASE PLATE (TOP)						
STUB POST WITH BASE PLATE						
NON-BREAKAWAY BASES						
BASE PLATE						

REMOVALS	
TYPE	NUMBER
SIGNS (TO BE REUSED ON PROJECT)	9
POSTS	6
FOOTINGS	1
SIGN STRUCTURES	

SIGN STRUCTURES				
TYPE	NEW	MODIFIED	REMOVE AND RESET	RESET
OVERHEAD STRUCTURE				
CANTILEVER STRUCTURE				
BUTTERFLY STRUCTURE				
BRIDGE MOUNT ATTACHMENT				
MAST ARM SIGN SUPPORT				
SINGLE TAPERED TUBE SIGN SUPPORT				

2	10/01/19	Revised Tables	D.D.G.	E.W.N.	
1	7/23/10	Revised Tables	D.D.G.	D.B.	
NO.	DATE	REVISIONS	BY	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES FOR INSTALLATIONS AND REMOVALS					
TE439 7/1/03					
FHWA APPROVAL 10/01/2019 APP'D Steven A. Buckley					
DESIGNED D.D.G. DETAILED K.D.S.		QUANTITIES		TRACED	
DESIGN CK. S.A.B. DETAIL CK.		D.D.G. QUAN. CK.		TRACE CK.	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	48	69

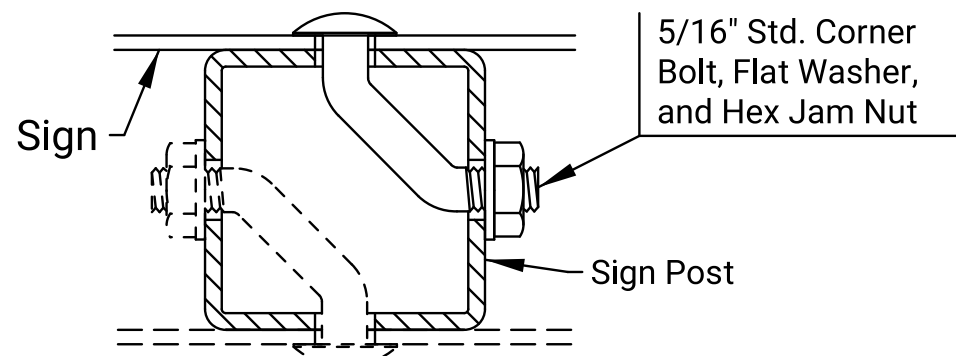


SECTION A-A

SECTION C-C

1 3/4", 2", OR 2 1/4" PSST SIGN POST

2 1/2" PSST SIGN POST



SECTION B-B

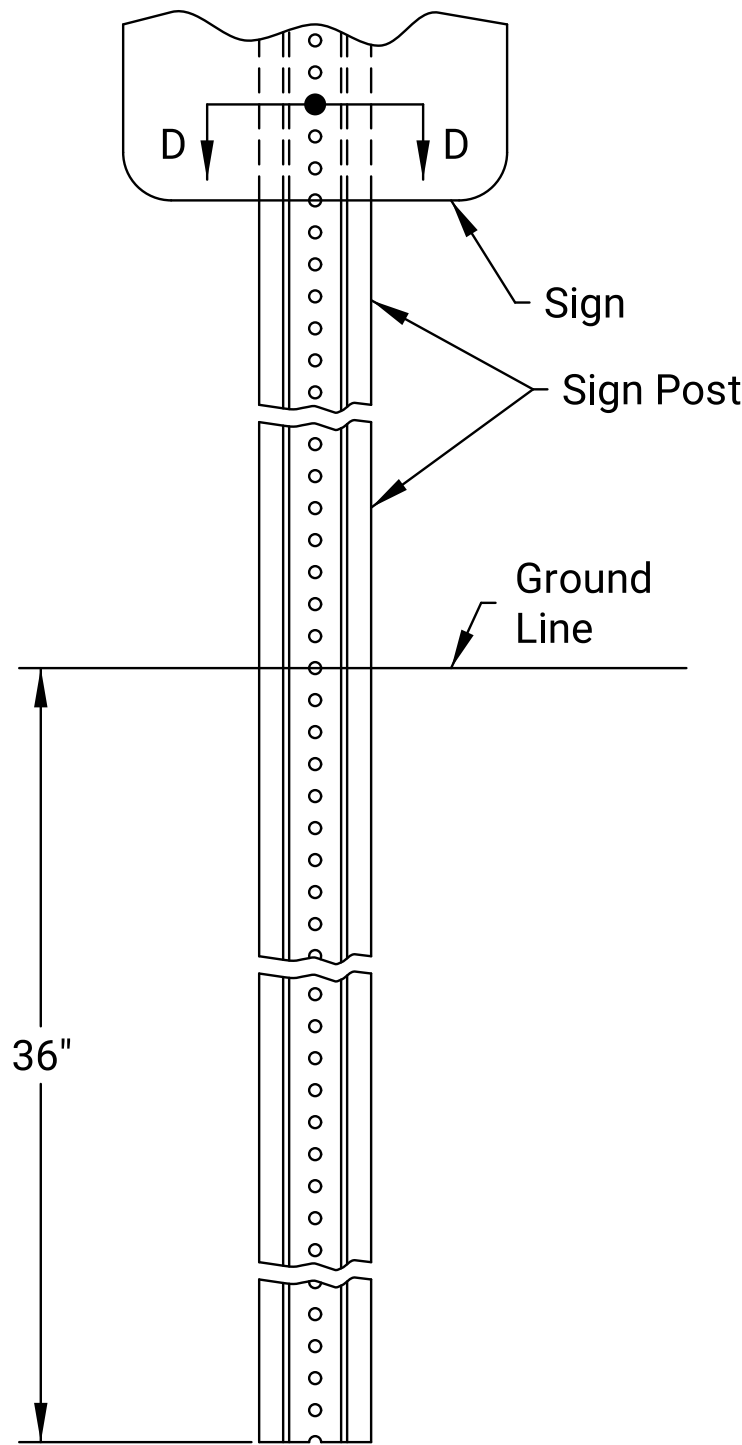
MATERIALS TABLE FOR SIGN POST AND FOOTING		
SIGN POST 12 GA. OR 14 GA.	FOOTING	
	POST ANCHOR	ANCHOR SLEEVE
1 3/4" X 1 3/4"	2" X 2" X 12 GA.	2 1/4" X 2 1/4" X 12 GA.
2" X 2"	2 1/4" X 2 1/4" X 12 GA.	2 1/2" X 2 1/2" X 12 GA.
2 1/4" X 2 1/4"	2 1/2" X 2 1/2" X 12 GA.	3" X 3" X 7 GA.
2 1/2" X 2 1/2"	3" X 3" X 7 GA.	Not Required

NOTE: 14 ga. posts must meet a certified minimum yield strength of 60,000 p.s.i.

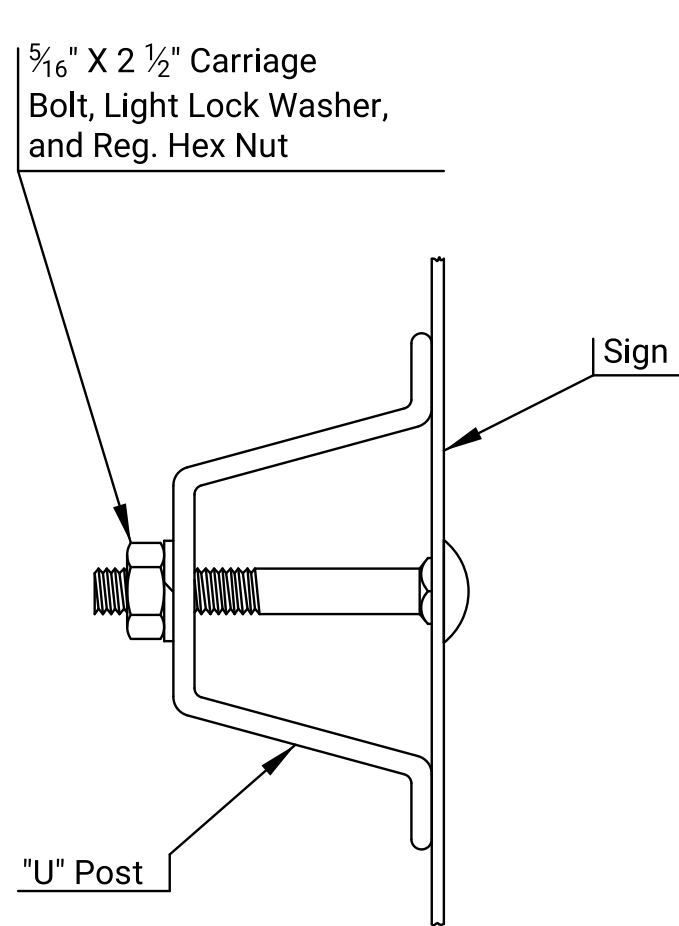
INSTALLATION PROCEDURES

1. Plumb and drive post anchor into the ground 18", if anchor sleeve is required, or to the specified height above the ground line.
2. Install anchor sleeve (if required) on the post anchor and align the first holes above the ground line. Plumb and drive post anchor with anchor sleeve into the ground to the specified height above the ground line.
3. Install sign post into the post anchor.

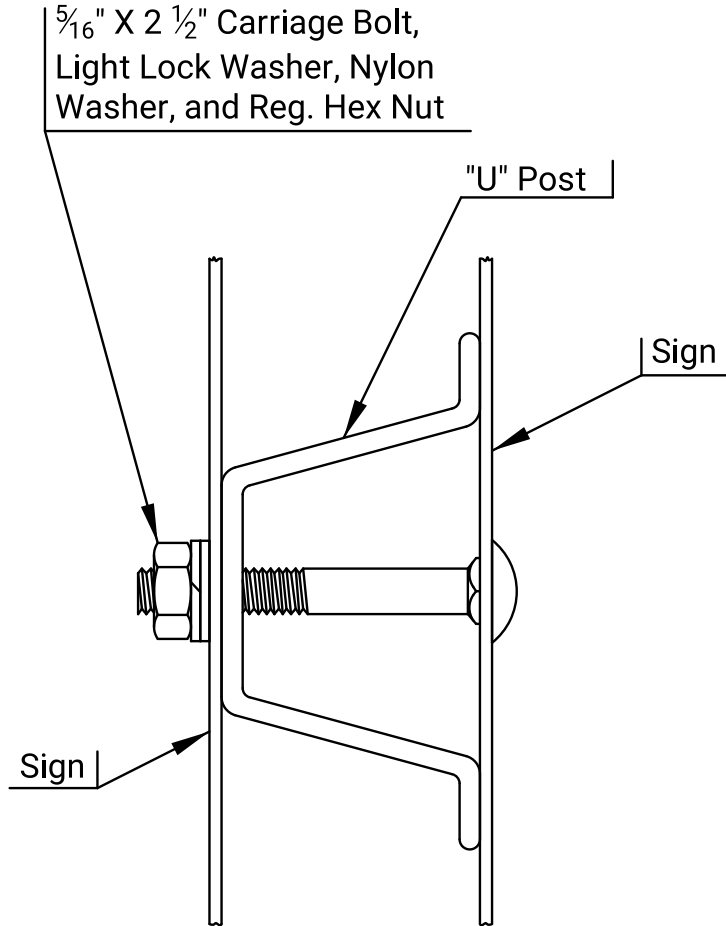
PERFORATED SQUARE STEEL TUBE POST (PSST)



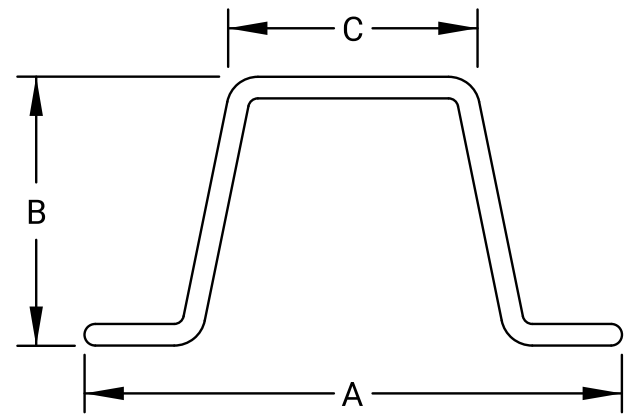
TYPICAL



SECTION D-D
(TYPICAL)



SECTION D-D
(BACK TO BACK)



DIM.	2 LBS/FT	3 LBS/FT
A	3 1/8 "	3 1/2 "
B	1 17/32 "	1 3/4 "
C	1 1/4 "	1 5/8 "

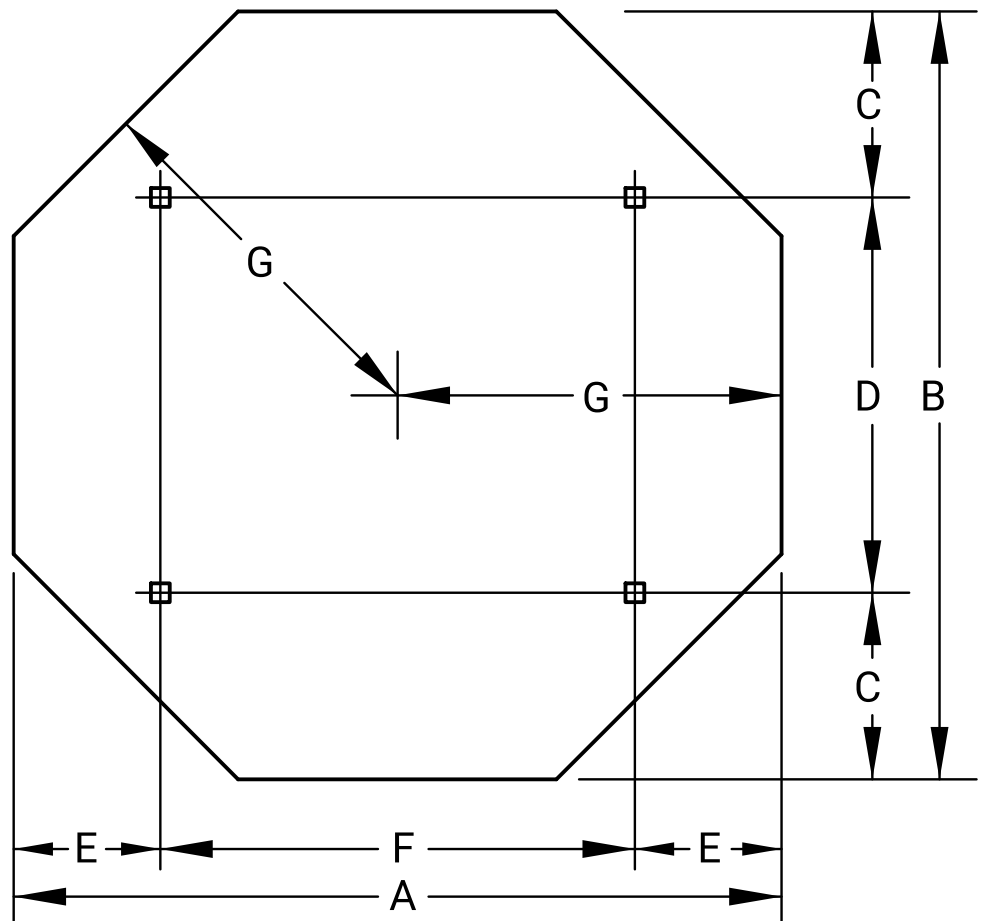
(Dimensions are nominal)

"U" POST

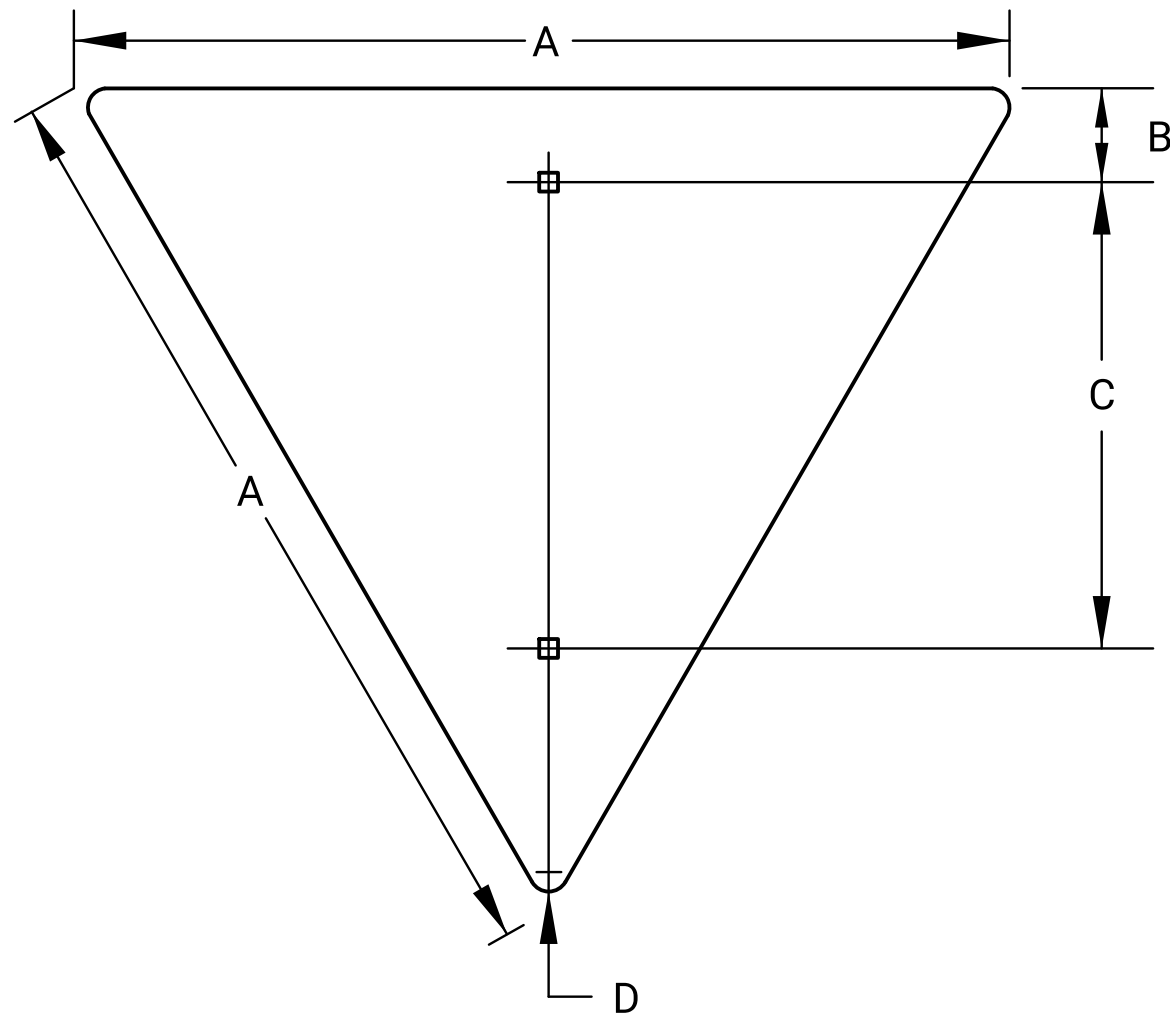
STEEL "U" POST

NO.	DATE	REVISIONS				BY	APPD
KANSAS DEPARTMENT OF TRANSPORTATION DETAILS FOR PERFORATED SQUARE STEEL TUBE POSTS (PSST) AND STEEL "U" POSTS							
TE466				10/01/19			
FHWA APPROVAL		10/01/2019		APPD		Eric W.Nichol	
DESIGNED	D.D.G.	DETAILED	D.D.G.	QUANTITIES		TRACED	
DESIGN CK.	E.W.N.	DETAIL CK.	E.W.N.	QUAN. CK.		TRACE CK.	

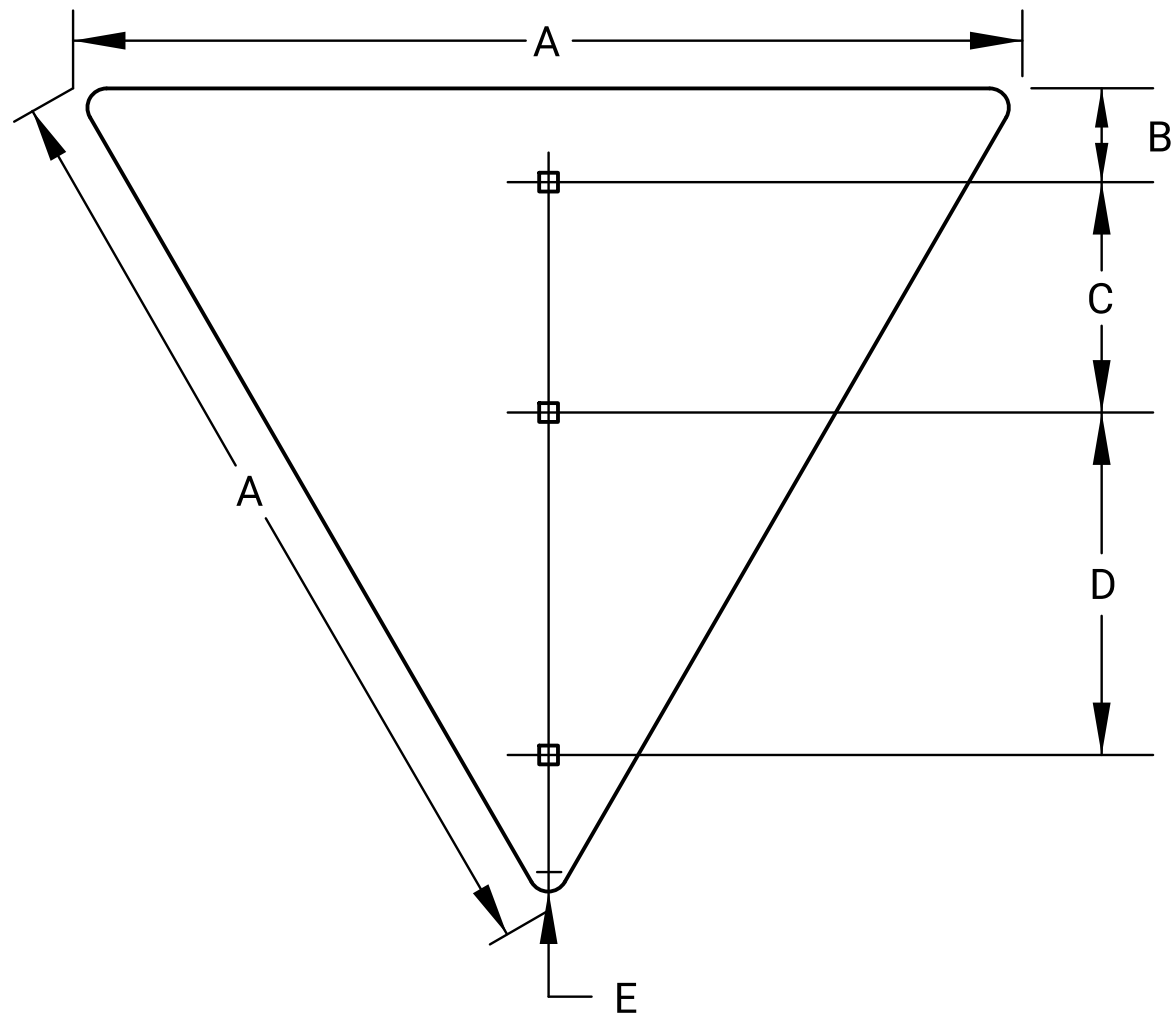
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	49	69



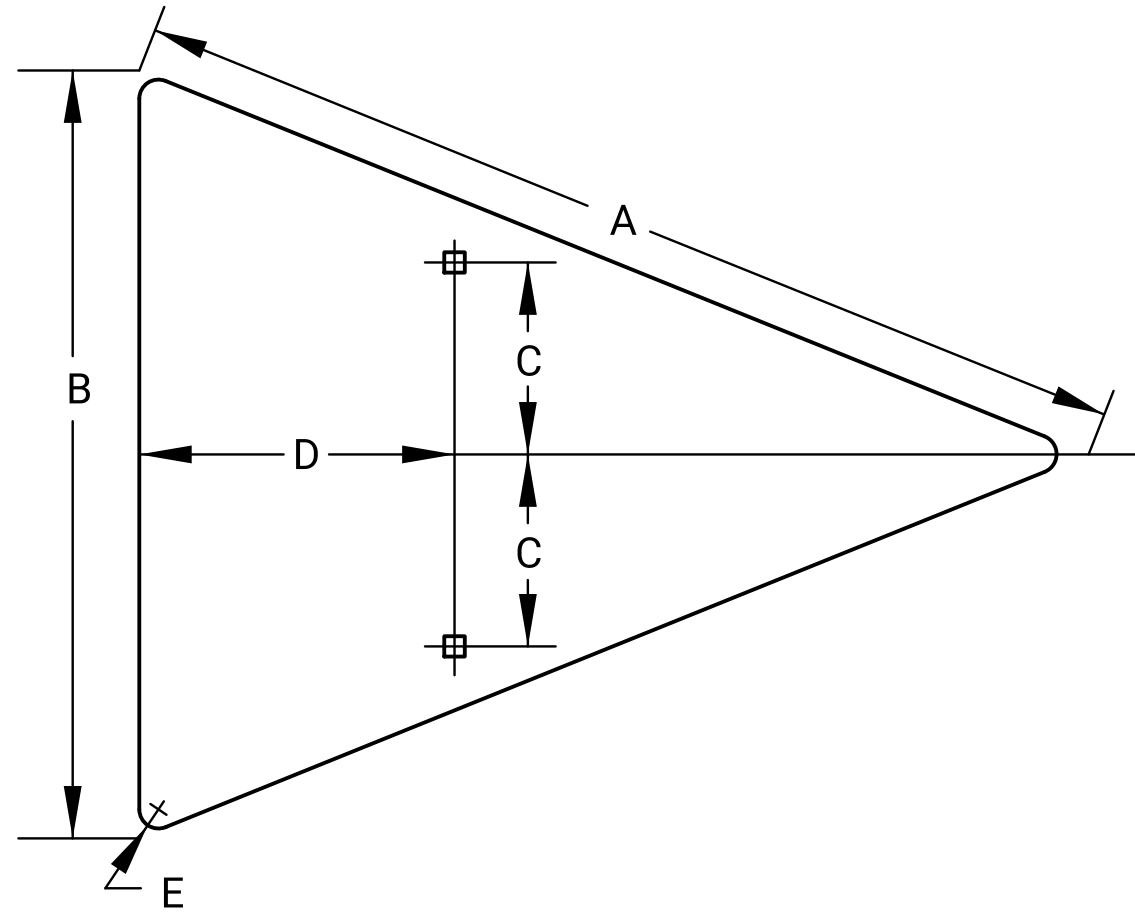
SIGN SIZE	A	B	C	D	E	F	G	T	AREA
48 X 48	48	48	12	24	9	30	24	0.100	13.25



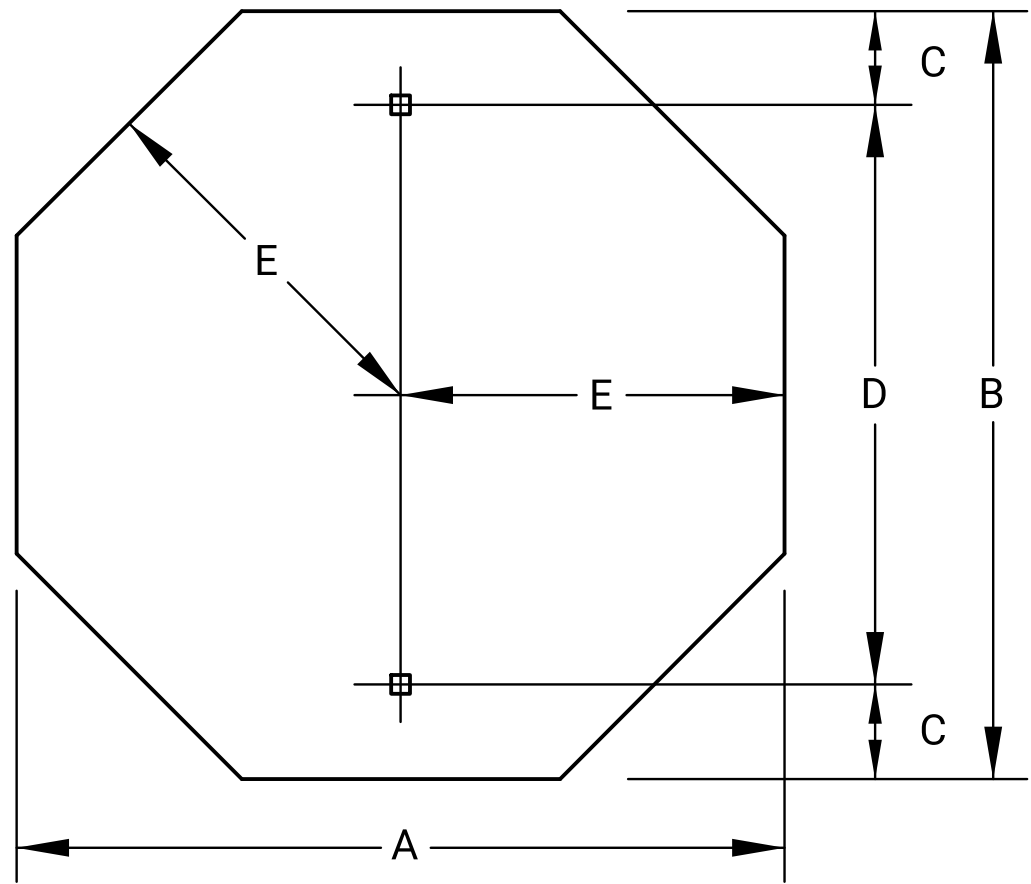
SIGN SIZE	A	B	C	D	T	AREA
36 X 36	36	3	18	2	0.080	3.90



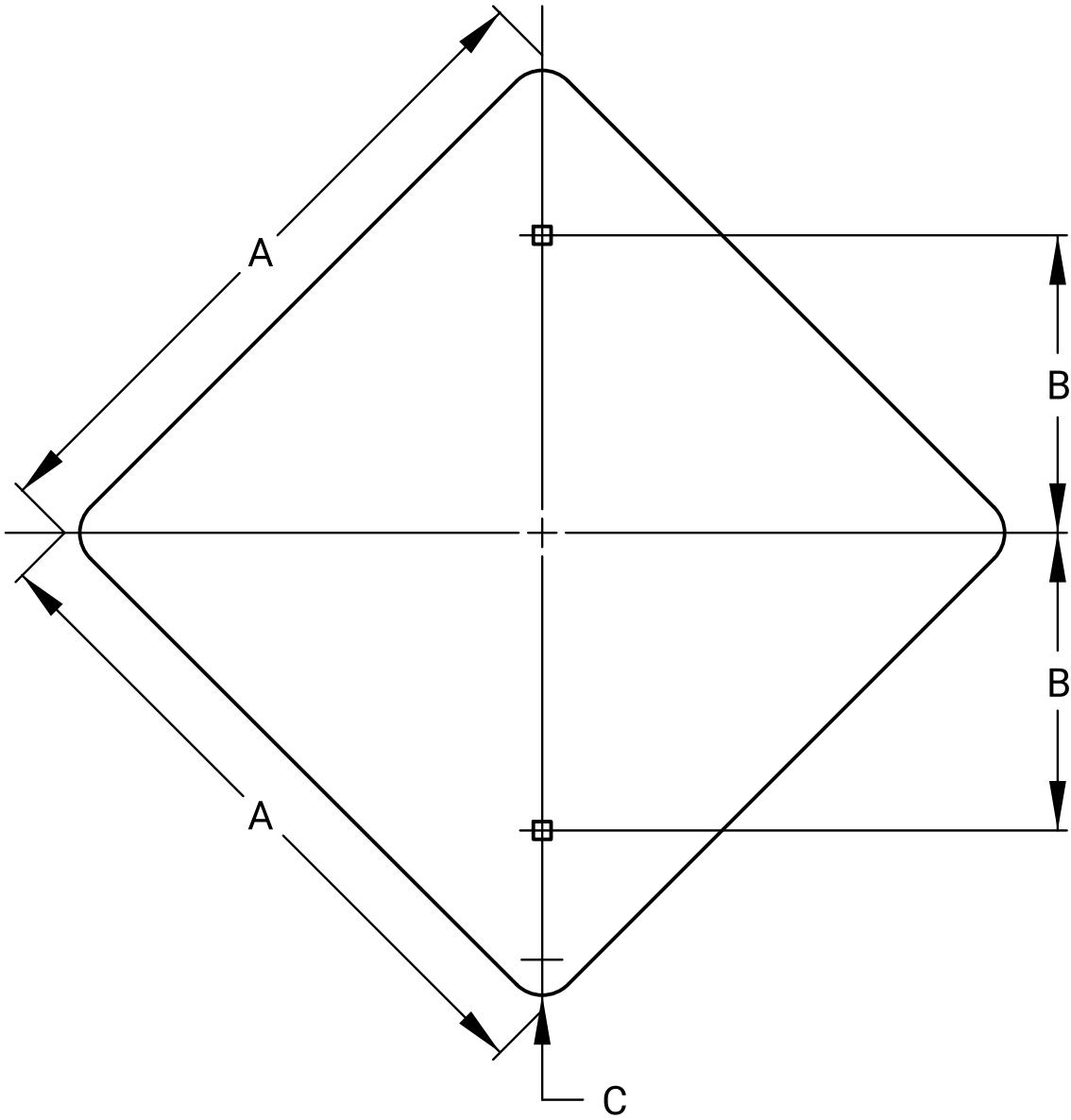
SIGN SIZE	A	B	C	D	E	T	AREA
48 X 48	48	3	12	18	3	0.080	6.93
60 X 60	60	3	18	18	4	0.100	10.83



SIGN SIZE	A	B	C	D	E	T	AREA
48 X 36	48	36	9	14 3/4	2 1/4	0.125	5.56

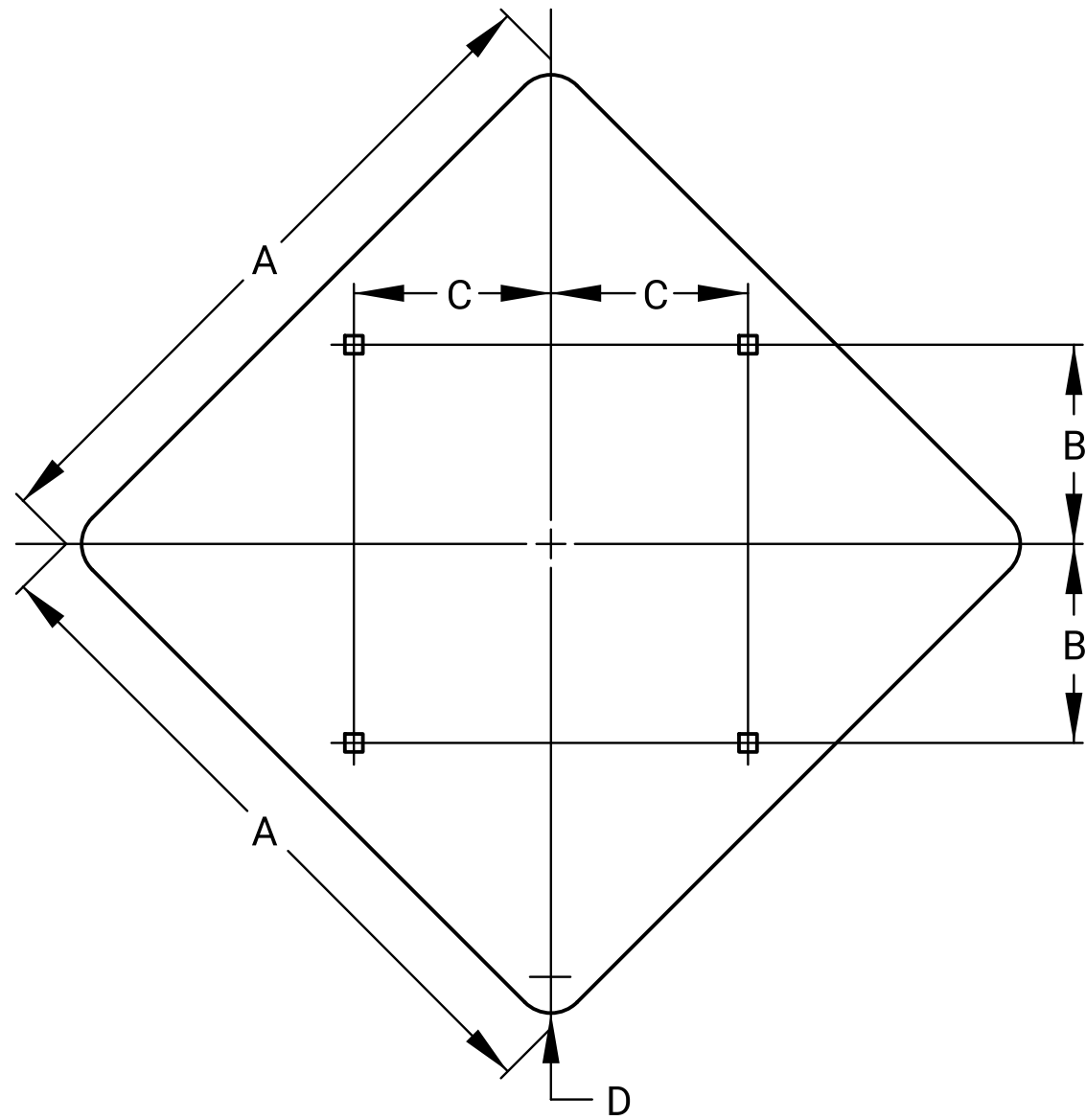


SIGN SIZE	A	B	C	D	E	T	AREA
30 X 30	30	30	3	24	15	0.080	5.18
36 X 36	36	36	6	24	18	0.080	7.46



①

SIGN SIZE	A	B	C	T	AREA
18 X 18	18	6	1 1/2	0.080	2.25
24 X 24	24	12	1 1/2	0.080	4.00
30 X 30	30	12	1 7/8	0.080	6.25
36 X 36	36	18	2 1/4	0.080	9.00



SIGN SIZE	A	B	C	D	T	AREA
48 X 48	48	12	15	3	0.100	16.00

NOTE:
All holes are 3/8 " square unless
otherwise noted.

The dimension "t" is the thickness
of the aluminum blank.

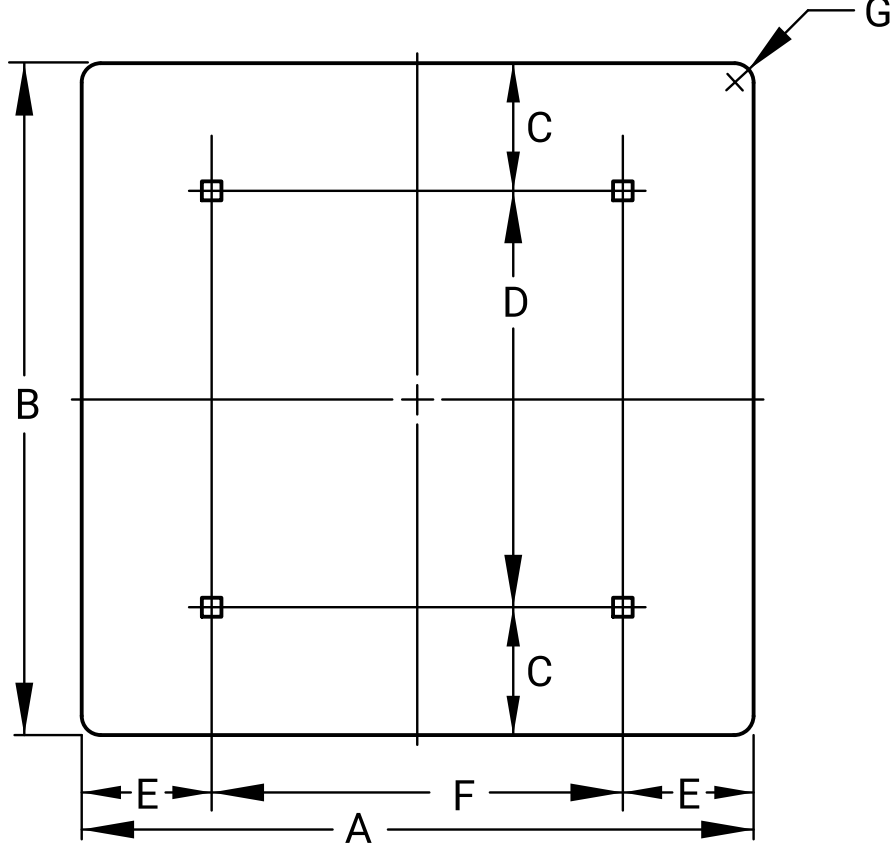
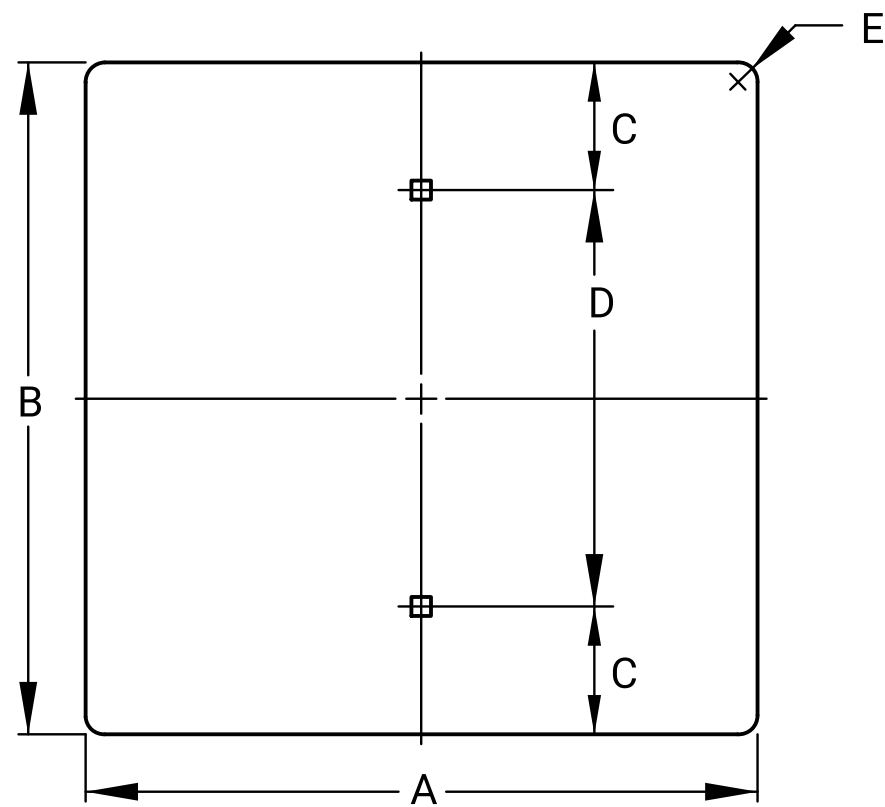
① Center hole is required.

All dimensions are in inches.

	10/01/19	Update sign blank details and dimensions	D.D.G.	E.W.N.	
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
SIGN BLANK DETAILS FOR FLAT SHEET SIGNS					
TE503					
7/1/03					
FHWA APPROVAL					
DESIGNED	D.D.G.	DETAILED	A.A.D.	QUANTITIES	TRACED
DESIGN CK.	S.A.B.	DETAIL CK.	D.D.G.	QUAN. CK.	TRACE CK.

KDOT Graphics Certified 12-17-2019

Sh. No.



	SIGN SIZE	A	B	C	D	E	T	AREA
①	3 X 8	3	8	1	6	$\frac{3}{8}$	0.040	0.17
①	6 X 12	6	12	3	6	$\frac{3}{8}$	0.063	0.50
	12 X 6	12	6	$1\frac{1}{2}$	3	$\frac{3}{4}$	0.063	0.50
	12 X 9	12	9	$1\frac{1}{2}$	6	$1\frac{1}{2}$	0.063	0.75
	12 X 18	12	18	3	12	$1\frac{1}{2}$	0.063	1.50
	12 X 24	12	24	3	18	$1\frac{1}{2}$	0.080	2.00
	12 X 36	12	36	6	24	$1\frac{1}{2}$	0.080	3.00
	12 X 48	12	48	6	36	$1\frac{1}{2}$	0.080	4.00
	18 X 6	18	6	$1\frac{1}{2}$	3	$1\frac{1}{2}$	0.063	0.75
	18 X 18	18	18	3	12	$1\frac{1}{2}$	0.063	2.25
	18 X 30	18	24	3	24	$1\frac{1}{2}$	0.080	3.75
	18 X 36	18	24	6	24	$1\frac{1}{2}$	0.080	4.50
	18 X 42	18	24	6	30	$1\frac{1}{2}$	0.080	5.25
	18 X 48	18	24	6	36	$1\frac{1}{2}$	0.080	6.00
	21 X 15	21	15	$1\frac{1}{2}$	12	$1\frac{1}{2}$	0.080	2.19
	24 X 6	24	6	$1\frac{1}{2}$	3	$1\frac{1}{2}$	0.080	1.00
	24 X 12	24	12	3	6	$1\frac{1}{2}$	0.080	2.00
	24 X 18	24	18	3	12	$1\frac{1}{2}$	0.080	3.00
	24 X 24	24	24	3	18	$1\frac{1}{2}$	0.080	4.00
	24 X 30	24	30	3	24	$1\frac{1}{2}$	0.080	5.00
	24 X 36	24	36	6	24	$1\frac{1}{2}$	0.080	6.00
	30 X 12	30	12	3	6	$1\frac{7}{8}$	0.080	2.50
	30 X 15	30	15	$1\frac{1}{2}$	12	$1\frac{7}{8}$	0.080	3.13
	30 X 18	30	18	3	12	$1\frac{7}{8}$	0.080	3.75
	30 X 21	30	21	$1\frac{1}{2}$	18	$1\frac{1}{2}$	0.080	4.38
	30 X 24	30	24	3	18	$1\frac{7}{8}$	0.080	5.00
	30 X 30	30	30	3	24	$1\frac{7}{8}$	0.080	6.25
	30 X 36	30	36	6	24	$1\frac{7}{8}$	0.080	7.50
	36 X 12	36	12	3	6	$1\frac{1}{2}$	0.080	3.00
	36 X 18	36	18	3	12	$1\frac{1}{2}$	0.080	4.50
	36 X 24	36	24	3	18	$1\frac{1}{2}$	0.080	6.00
	36 X 30	36	30	3	24	$2\frac{1}{4}$	0.080	7.50
	36 X 36	36	36	6	24	$2\frac{1}{4}$	0.080	9.00
③	45 X 36	45	36	3	30	$2\frac{1}{4}$	0.100	11.25

	SIGN SIZE	A	B	C	D	E	F	G	T	AREA
	36 X 12	36	12	3	6	3	30	$1\frac{1}{2}$	0.080	3.00
	36 X 30	36	30	3	24	3	30	$2\frac{1}{4}$	0.080	7.50
	36 X 48	36	48	9	30	6	24	0	0.100	12.00
	36 X 60	36	60	12	36	6	24	0	0.100	15.00
②	36 X 72	36	72	6	60	6	24	0	0.100	18.00
	42 X 12	48	12	3	6	6	30	$1\frac{1}{2}$	0.080	3.50
	42 X 18	48	18	3	12	6	30	$1\frac{1}{2}$	0.080	5.25
	42 X 24	48	24	6	12	6	30	$1\frac{7}{8}$	0.080	7.00
	42 X 36	48	36	6	24	6	30	0	0.100	10.50
	48 X 12	48	12	3	6	9	30	$1\frac{1}{2}$	0.080	4.00
	48 X 18	48	18	3	12	9	30	$1\frac{1}{2}$	0.080	6.00
	48 X 24	48	24	6	12	9	30	$1\frac{7}{8}$	0.080	8.00
	48 X 30	48	30	6	18	9	30	0	0.100	10.00
	48 X 36	48	36	6	24	9	30	0	0.100	12.00
	48 X 42	48	42	6	30	9	30	0	0.100	14.00
	48 X 48	48	48	9	30	9	30	0	0.100	16.00
②	48 X 60	48	60	12	36	9	30	0	0.100	20.00
②	48 X 72	48	72	6	60	9	30	0	0.100	24.00
②	48 X 96	48	96	12	72	9	30	0	0.100	32.00
	60 X 12	60	12	3	6	12	36	0	0.100	5.00

SIGN SIZE	A	B	C	D	E	F	G	T	AREA
60 X 18	60	18	3	12	12	36	0	0.100	7.50
60 X 24	60	24	6	12	12	36	0	0.100	10.00
60 X 30	60	30	6	18	12	36	0	0.100	12.50
60 X 36	60	36	6	24	12	36	0	0.100	15.00
60 X 42	60	42	6	30	12	36	0	0.100	17.50
60 X 48	60	48	9	30	12	36	0	0.100	20.00
72 X 12	72	12	3	6	15	42	0	0.100	6.00
72 X 18	72	18	3	12	15	42	0	0.100	9.00
72 X 24	72	24	6	12	15	42	0	0.100	12.00
72 X 30	72	30	6	18	15	36	0	0.100	15.00
72 X 36	72	36	6	24	15	42	0	0.100	18.00
72 X 42	72	42	6	30	15	42	0	0.100	21.00
72 X 48	72	48	9	30	15	42	0	0.100	24.00
84 X 12	84	18	3	6	18	48	0	0.100	7.00
84 X 18	84	18	3	12	18	48	0	0.100	10.50
84 X 24	84	24	6	12	18	48	0	0.100	14.00
84 X 30	84	30	6	18	18	48	0	0.100	17.50
84 X 36	84	36	6	24	18	48	0	0.100	21.00
84 X 42	84	42	6	30	18	48	0	0.100	24.50
84 X 48	84	48	9	30	18	48	0	0.100	28.00

NOTE:
All holes are $\frac{3}{8}$ " square, unless otherwise noted.

The dimension "T" is the thickness of the aluminum blank.

① Holes shall be $\frac{5}{16}$ " diameter.

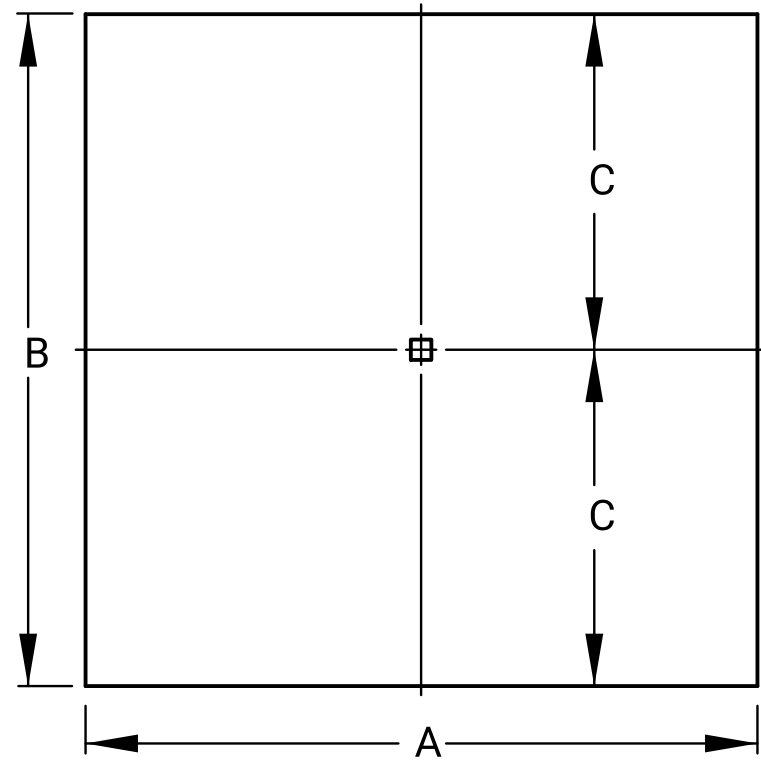
② Dimension "D" requires a center hole.

③ Additional hole 12" below top hole.

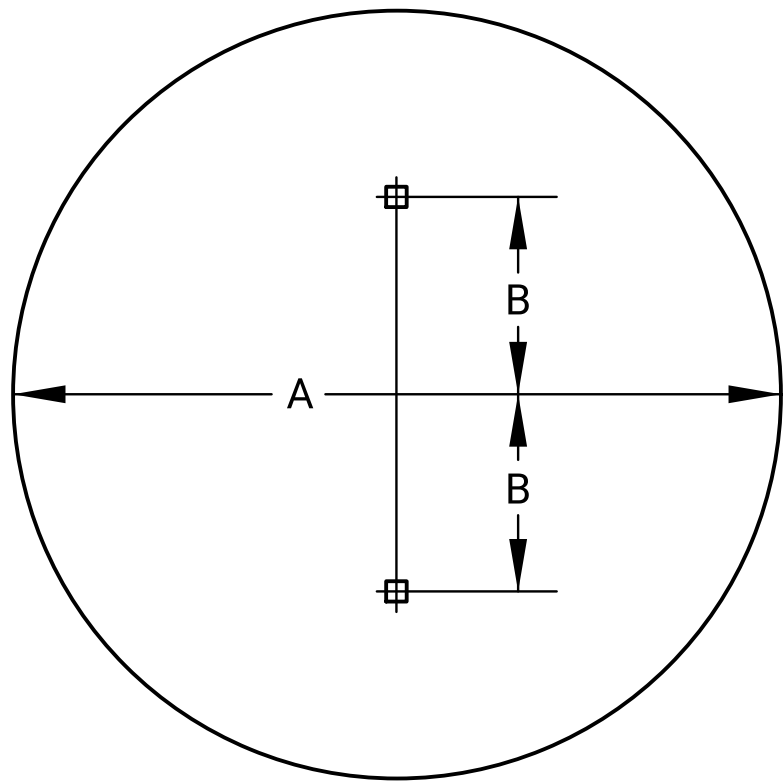
All dimensions are in inches.

1	10/01/19	Update sign blank details and dimensions	D.D.G.	E.W.N.	
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
SIGN BLANK DETAILS FOR FLAT SHEET SIGNS					
TE506					
7/1/03					
FHWA APPROVAL					
10/01/2019					
APPD Steven A. Buckley					
DESIGNED D.D.G. DETAILED A.A.D. QUANTITIES TRACED					
DESIGN CK. S.A.B. DETAIL CK. D.D.G. QUAN. CK. TRACE CK.					

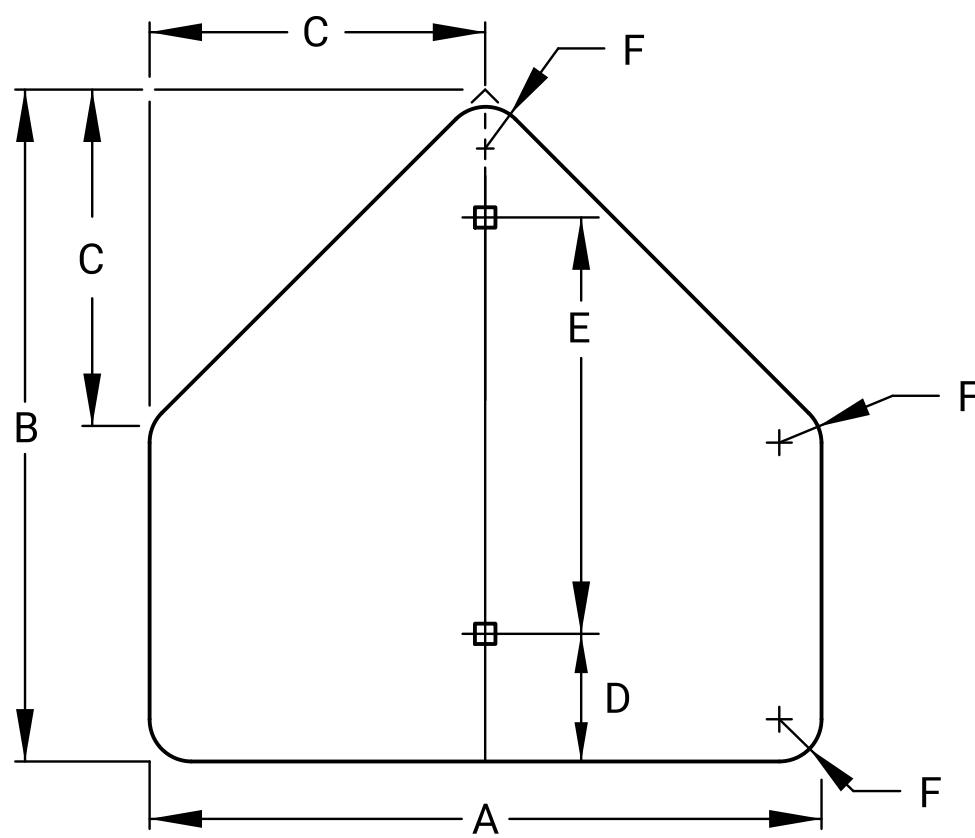
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	51	69



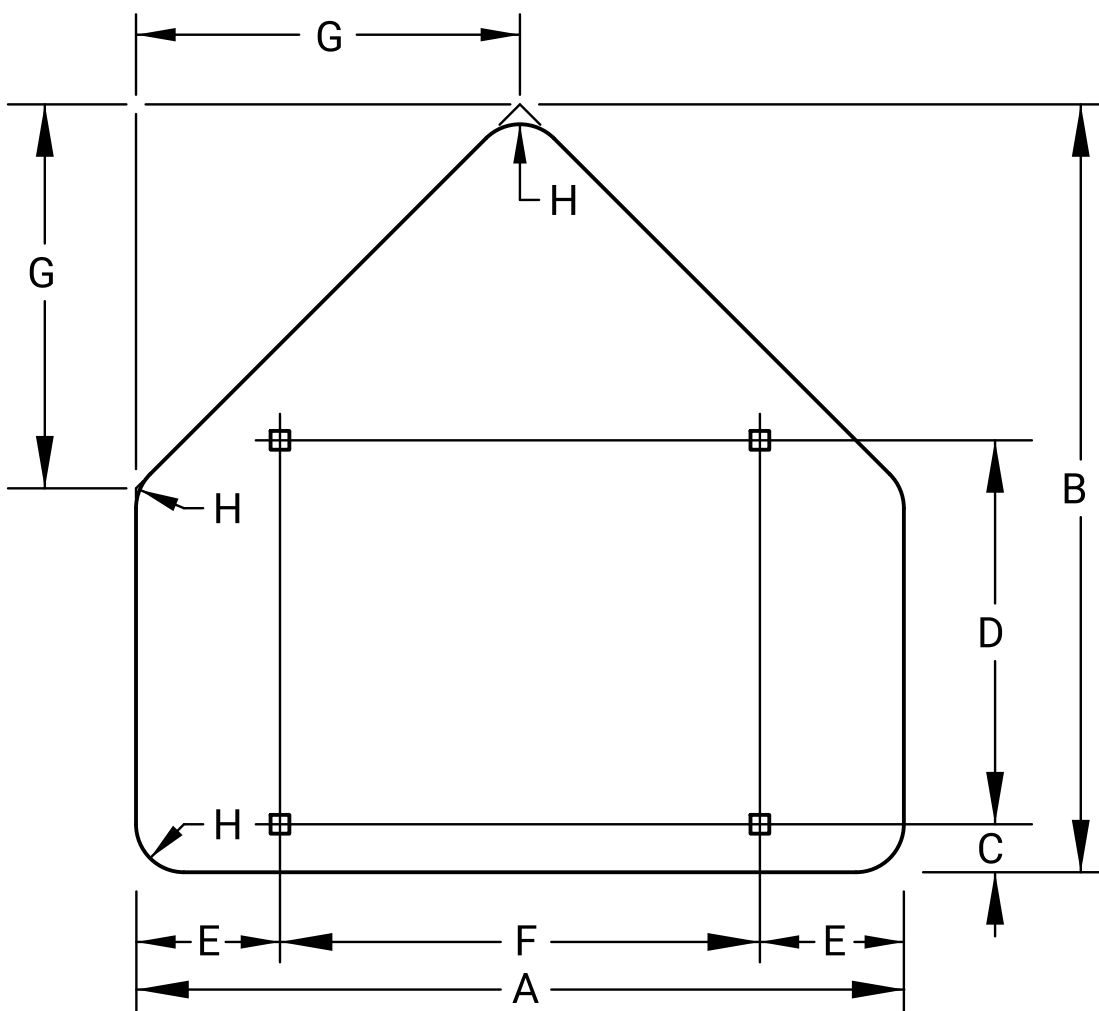
SIGN SIZE	A	B	C	T	AREA
6 X 6	6	6	3	0.063	0.25



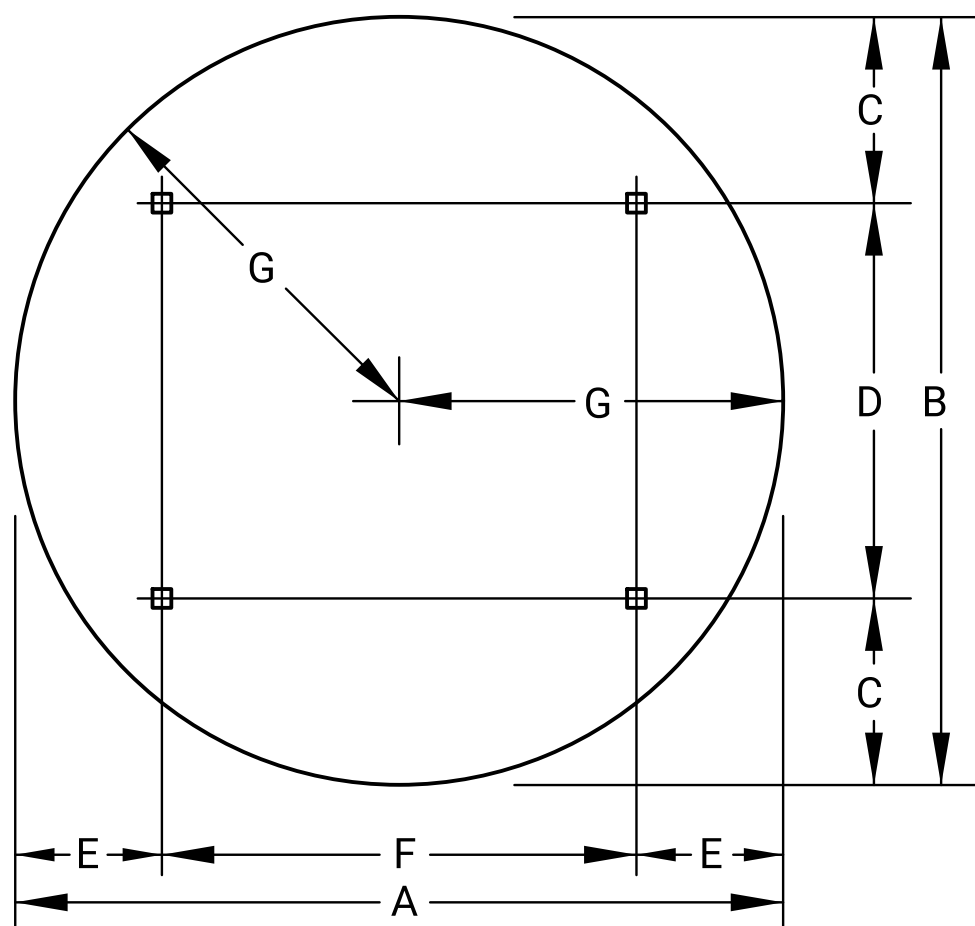
SIGN SIZE	A	B	T	AREA
36 DIA	36	12	0.080	7.07



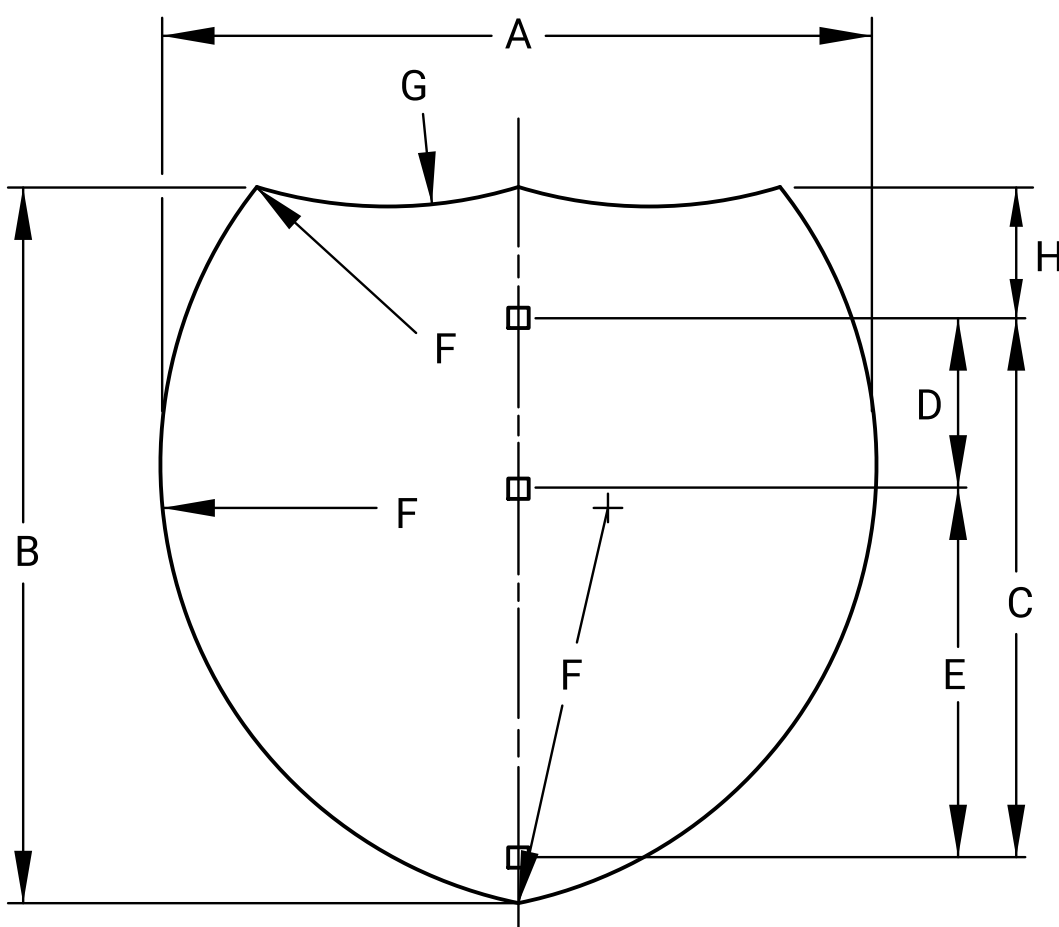
SIGN SIZE	A	B	C	D	E	F	T	AREA
30 X 30	30	30	15	3	24	1 7/8	0.080	4.69
36 X 36	36	36	18	6	24	2 1/4	0.080	6.75



SIGN SIZE	A	B	C	D	E	F	G	H	T	AREA
48 X 48	48	48	3	24	9	30	24	3	0.100	12.00



SIGN SIZE	A	B	C	D	E	F	G	T	AREA
48 X 48	48	48	12	24	9	30	24	0.100	12.57



INDEPENDENT USE

DIMENSIONS										
SIZE	A	B	C	D	E	F	G	H	T	AREA
24 X 24	24	24	18	-	-	15	15	3	0.080	3.20
36 X 36	36	36	30	12	18	22 1/2	22 1/2	3	0.080	7.20
30 X 24	30	24	18	-	-	17	24	3	0.080	3.99
45 X 36	45	36	30	12	18	25 1/2	36	3	0.100	8.99

NOTE:
All holes are 3/8" square, unless otherwise noted.
Dimension "T" is the thickness of the aluminum blank.

All dimensions are in inches.

	10/01/19	Update sign blank details and dimensions	D.D.G.	E.W.N.	
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
SIGN BLANK DETAILS FOR FLAT SHEET SIGNS					
TE509					
7/1/03					
FHWA APPROVAL					
DESIGNED					
DESIGN CK.					
10/01/2019					
APPD					
Steven A. Buckley					
D.D.G.					
QUANTITIES					
TRACED					
S.A.B.					
DETAIL CK.					
D.D.G.					
QUAN. CK.					
TRACE CK.					

KDOT Graphics Certified 12-17-2019

Sh. No.

Plotted by : KDOT#CADD.Support@ks.gov 18-DEC-2019 01:53
File : te590.dgn

DETAILED SPECIFICATIONS FOR FLAT SHEET SIGNS AND OVERLAY PANELS

All new flat sheet sign blanks shall be of the fabrication and thickness shown on the flat sheet blank detail sheets, unless other details are shown in the plans.

Flat sheet blanks shall be used for signs that are less than or equal to 7'-0" in length and/or less than or equal to 4'-0" in height, unless other details are shown in the plans. Flat sheet blanks shall also be used for signs that are 4'-0" in length and less than or equal to 8'-0" in height, unless other details are shown in the plans.

The design details for signs (color, letter height, and letter series) shall be as shown in the FHWA Standard Highway Signs and Markings book (2004 edition and supplements), unless other details are shown in the plans.

All sign faces shall be covered with Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The sheeting used for the direct applied legend and borders shall be Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The school warning signs, the "SCHOOL" portion of the S5-1 sign, S4-3p plaque, and any supplemental plaques used with these warning signs shall have a fluorescent yellow-green background, unless otherwise noted in the plans.

The type of adhesive used for retroreflective sheeting or lettering film shall be heat activated or pressure sensitive.

DETAILED SPECIFICATIONS FOR REINFORCED PANEL SIGNS

All new reinforced sign panels shall be of the fabrication and thickness shown on the reinforced panel detail sheets. If extrusheet fabricated sign panels are used, they shall be of the length, width and in the position shown. If extrusheet fabricated panel dimensions are not shown, a line of legend should be placed entirely on one panel. If extruded fabricated sign panels are used, either 1'-0" or 6" panels shall be used. The 6" panels shall be used only at the top or bottom of signs.

Reinforced panels shall be used for signs that are greater than 7'-0" in length or greater than 4'-0" in height, unless other details are shown in the plans.

All sign faces shall be covered with Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The sheeting used for the direct applied legend and borders shall be Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The type of adhesive used for retroreflective sheeting or lettering film shall be heat activated or pressure sensitive.

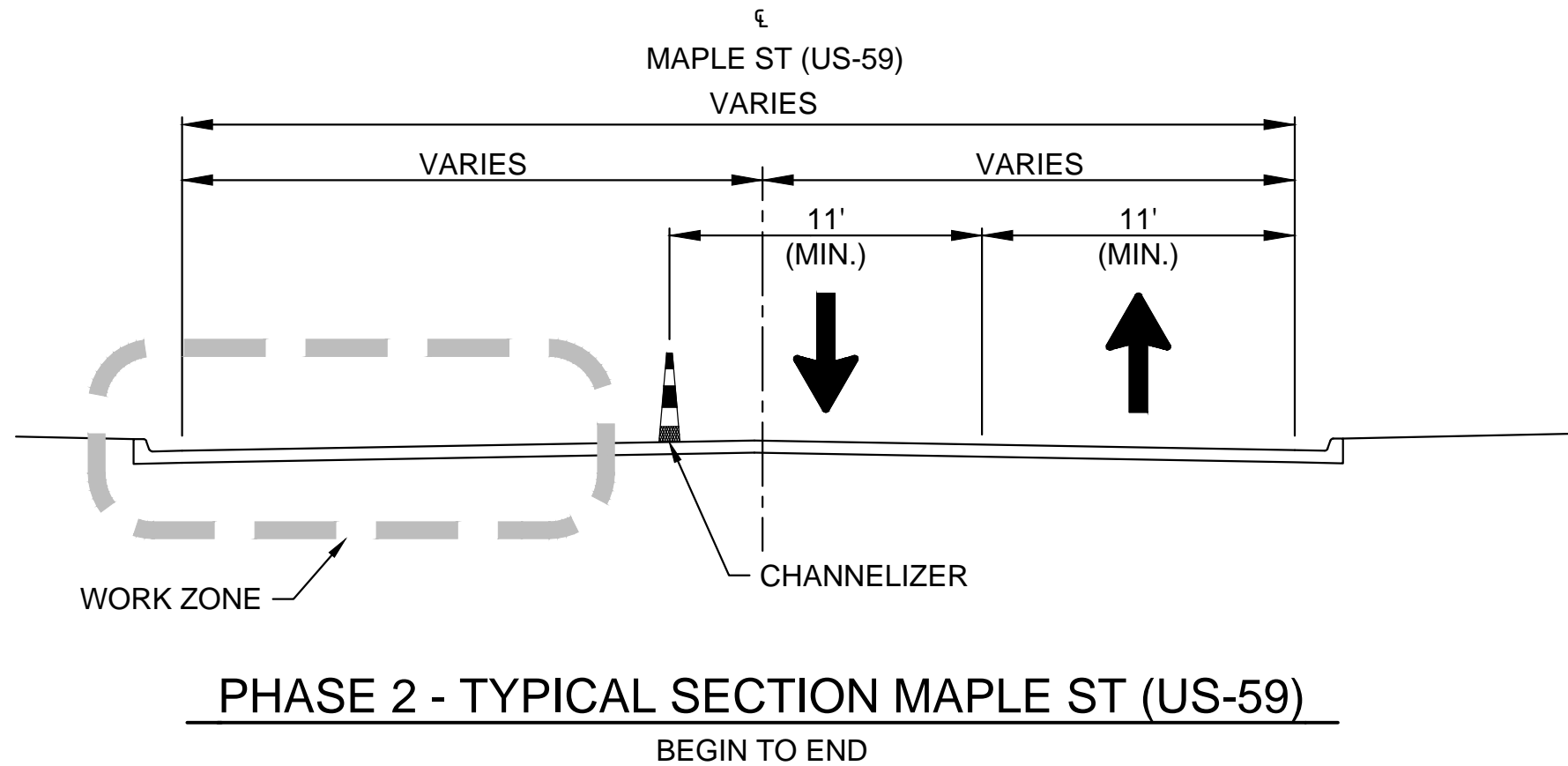
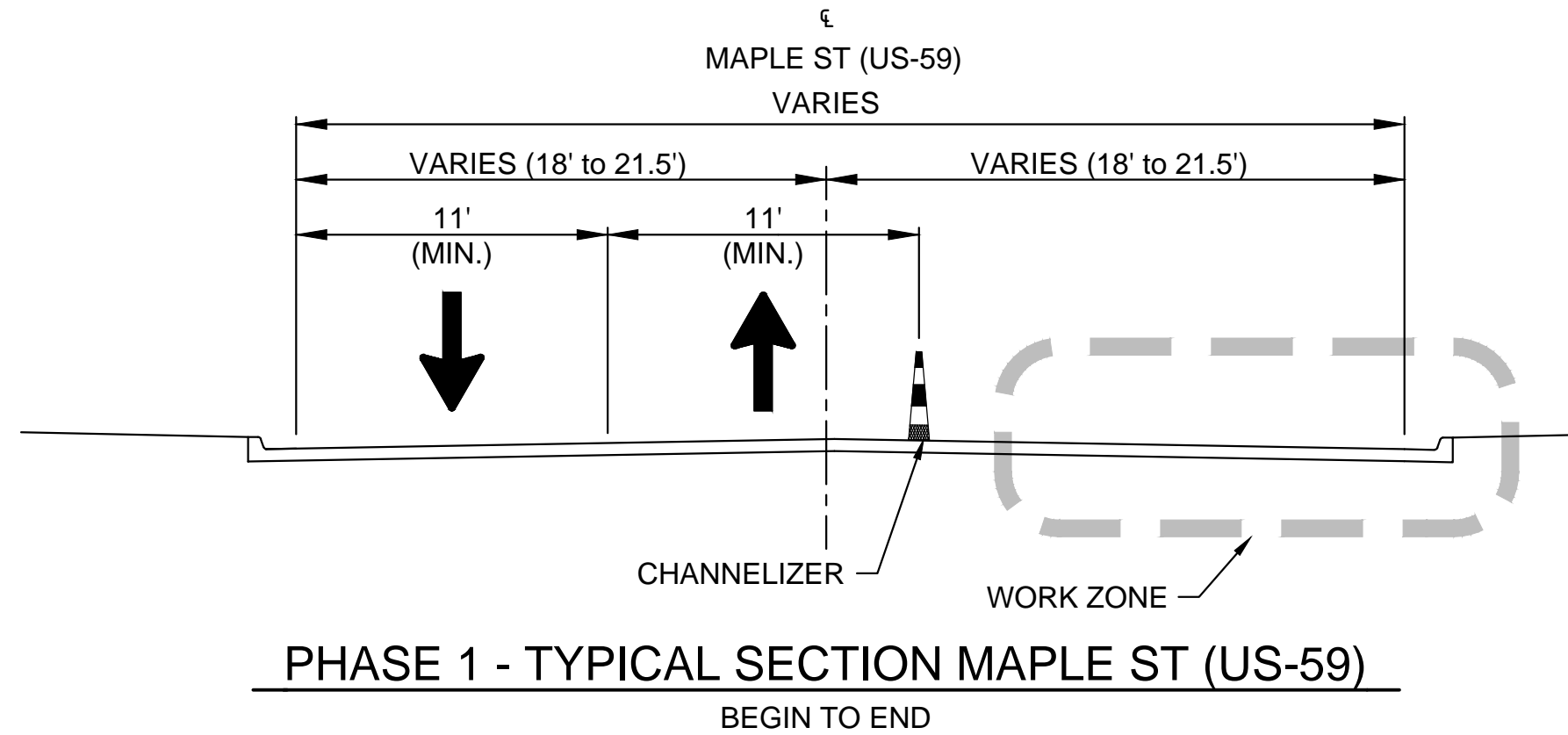
Letters and numbers on reinforced panel signs are modified Series "E" unless otherwise shown.

Spacing table dimensions are in inches.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	52	69

2	10/01/19	Changed notes	D.D.G.	E.W.N.	
1	7/23/10	Changed Notes and Sheeting Type	D.D.G.	D.B.	
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION DETAILS SPECIFICATIONS FOR REINFORCED SIGN PANELS AND FLAT SHEET SIGNS					
TE590				7/01/03	
FHWA APPROVAL					
DESIGNED		10/01/2019	APPD	Steven A. Buckley	
DESIGN CK.		D.D.G. DETAILED	K.D.S. QUANTITIES	TRACED	
		S.A.B. DETAIL CK.	D.D.G. QUAN. CK.	TRACE CK.	

LEGEND			
	WORK ZONE		DIRECTION OF TRAVEL
	WORK ZONE SIGN		"AHEAD", "1000 FT", "1500 FT", OR "1 MILE"
	TYPE III BARRICADE		SPEED TO BE DETERMINED BY ENGINEER
	DETECTABLE BARRICADE		TYPE "A" LOW INTENSITY WARNING LIGHT
	CHANNELIZING DEVICES		ARROW BOARD
	PEDESTRIAN CHANNELIZER		



PROJECT PHASING NOTES

THE CONTRACTOR SHALL NOT MILL THE EXISTING ASPHALT UNTIL THE PROPOSED HMA SURFACING IS READY TO BE PLACED. TRAFFIC CARRIED THROUGH CONSTRUCTION ON MILLED PAVEMENT SHOULD BE HELD TO A MINIMUM SO AS TO MINIMIZE TRAFFIC DAMAGE TO EXISTING PAVEMENT.

PHASE 1 GENERALLY CONSISTS OF WORK ON THE EAST SIDE OF MAPLE STREET (US-59), MORE PARTICULARLY THE STORM SEWER, CURB AND GUTTER, INTERSECTION/ENTRANCE RECONSTRUCTION, AND SIDEWALK IMPROVEMENTS FROM 4TH AVENUE TO REDBUD AVENUE.

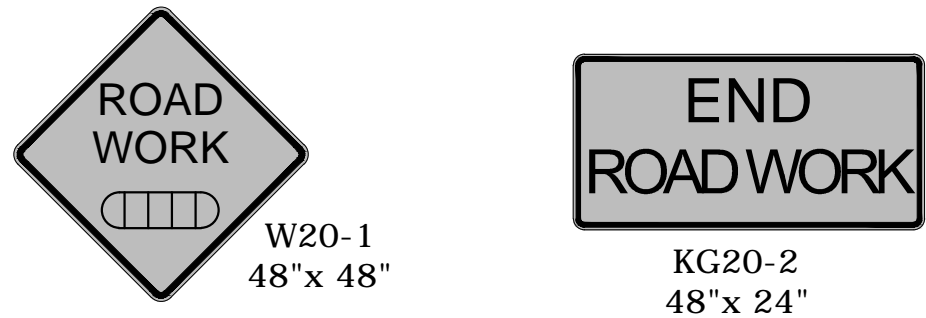
- THE CONTRACTOR SHALL CARRY SOUTHBOUND MAPLE STREET (US-59) THROUGH CONSTRUCTION IN THE EXISTING SOUTHBOUND THRU LANE. NARROWING OF THE SOUTHBOUND LANE TO 11 FT. (MINIMUM) WILL BE ALLOWED TO FACILITATE THE SHIFT OF NORTHBOUND TRAFFIC.
- THE CONTRACTOR SHALL USE THESE TRAFFIC CONTROL PLANS AND THE KDOT STANDARD DRAWING TE724 TO SHIFT NORTHBOUND MAPLE STREET (US-59) TO THE CENTER TWO-WAY LEFT-TURN LANE SOUTH OF 4TH AVENUE. CARRY NORTHBOUND TRAFFIC THROUGH CONSTRUCTION IN THE CENTER LANE. SHIFT NORTHBOUND TRAFFIC BACK TO THE EXISTING NORTHBOUND THRU LANE IMMEDIATELY NORTH OF REDBUD AVENUE.
- CROSS ROAD STORM SEWER CONSTRUCTION AT 3RD AVENUE AND SHALL BE PHASED. THE CONTRACTOR HAS THE OPTION TO FLAG TRAFFIC USING KDOT STANDARD DRAWING TE730 TO COMPLETE THE CROSS ROAD STORM SEWER WORK

PHASE 2 GENERALLY CONSISTS OF WORK ON THE WEST SIDE OF MAPLE STREET (US-59), MORE PARTICULARLY THE STORM SEWER, CURB AND GUTTER, INTERSECTION/ENTRANCE RECONSTRUCTION, AND SIDEWALK IMPROVEMENTS FROM 4TH AVENUE TO REDBUD AVENUE. THE CONTRACTOR MAY BEGIN ASPHALT MILLING AND SURFACING IN THE WORK ZONE OF PHASE 2 PRIOR TO SWITCHING TO PHASE 3.

- THE CONTRACTOR SHALL USE THESE TRAFFIC CONTROL PLANS AND THE KDOT STANDARD DRAWING TE724 TO SHIFT SOUTHBOUND MAPLE STREET (US-59) TO THE CENTER TWO-WAY LEFT-TURN LANE IMMEDIATELY NORTH OF 4TH AVENUE. CARRY SOUTHBOUND TRAFFIC THROUGH CONSTRUCTION IN THE CENTER LANE. SHIFT SOUTHBOUND TRAFFIC BACK TO THE EXISTING SOUTHBOUND THRU LANE IMMEDIATELY SOUTH OF 4TH AVENUE.
- THE CONTRACTOR SHALL CARRY NORTHBOUND MAPLE STREET (US-59) THROUGH CONSTRUCTION IN THE EXISTING NORTHBOUND THRU LANE. NARROWING OF THE NORTHBOUND LANE TO 11 FT. (MINIMUM) WILL BE ALLOWED TO FACILITATE THE SHIFT OF SOUTHBOUND TRAFFIC.

PHASE 3 GENERALLY CONSISTS OF ASPHALT MILLING AND SURFACING ON THE REMAINDER OF THE PROJECT. IT IS THE INTENT OF THESE PLANS FOR THE FINAL HMA SURFACE TO BE PLACED AFTER COMPLETION OF ALL STORM SEWER, CURB/GUTTER, AND INTERSECTION/ENTRANCE CONSTRUCTION. THE CONTRACTOR SHALL USE KDOT STANDARD DRAWING TE724 FOR ANY LANE SHIFTS AND TE730 TO CARRY 2-WAY TRAFFIC IN ONE LANE WITH A PILOT CAR FOR MILLING, SURFACING, AND PAVEMENT MARKING STRIPING.

PHASE 4 GENERALLY CONSISTS OF CONSTRUCTING THE CONCRETE MANHOLE COLLARS ON THE SANITARY SEWER MANHOLES IN THE CENTER OF MAPLE STREET (US-59). CONTRACTOR SHALL CLOSE THE CENTER TURN LANE AT THE WORK ZONE LOCATION. USE STEEL STREET PLATES AS NECESSARY TO PROTECT THE WORK AND MAINTAIN TRAFFIC FLOW.



BASIC TRAFFIC CONTROL SIGNING

ALL PUBLIC STREETS THAT REMAIN OPEN TO THE TRAVELING PUBLIC DURING CONSTRUCTION SHALL HAVE, AT A MINIMUM, A "ROAD WORK AHEAD" SIGN IN ADVANCE OF THE WORK ZONE AND AN "END ROAD WORK" SIGN 500 FEET DOWNSTREAM OF THE LAST TEMPORARY TRAFFIC CONTROL DEVICE.

WHEN CONSTRUCTION PHASING REQUIRES TRAFFIC ON AN EXISTING STOP CONTROLLED SIDE STREET TO CROSS THE WORK ZONE, A TEMPORARY STOP SIGN SHALL BE INSTALLED PER FIGURE 2 ON TE705.

THESE SIGNS MAY NOT BE SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS, BUT NEVERTHELESS SHALL BE REQUIRED.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	53	69



TRAFFIC CONTROL GENERAL NOTES

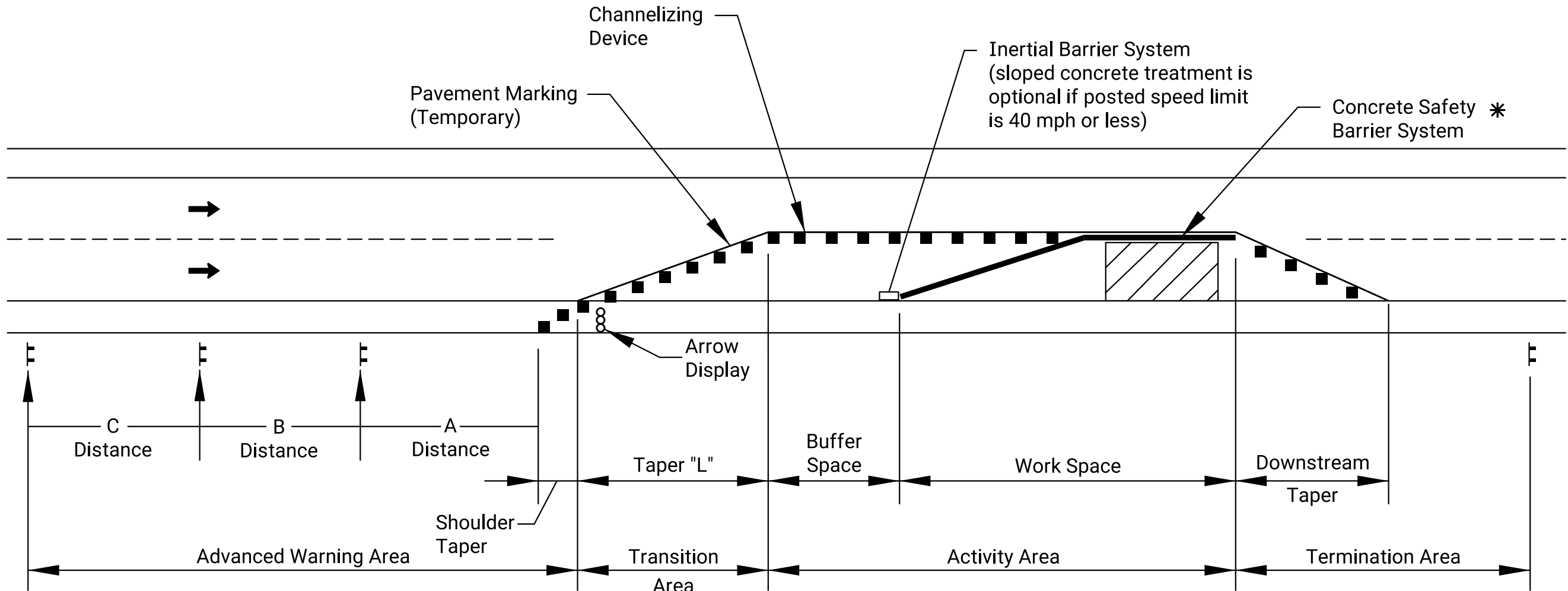
- THESE TRAFFIC CONTROL PLANS ADDRESS SOME OF THE MAJOR ITEMS OF WORK, BUT NOT ALL ITEMS OF THE CONTRACTOR'S WORK, AND ARE INTENDED TO PROVIDE A GENERAL OVERVIEW OF TRAFFIC HANDLING. TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO SELECT PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES TO ACCOMMODATE THE SAFETY OF MOTORISTS, BICYCLISTS, PEDESTRIANS, WORKERS, ETC. AT ALL TIMES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A DETAILED SEQUENCING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR HAS THE OPTION OF DEVELOPING THEIR OWN TRAFFIC CONTROL PLAN AND SUBMITTING IT TO THE ENGINEER FOR REVIEW AND APPROVAL (AT LEAST TWO WEEKS PRIOR TO PROPOSED IMPLEMENTATION).
- ALL TRAFFIC CONTROL DEVICES (SIGNS, BARRICADES, DRUMS, CHANNELIZERS, ETC.) SHALL BE PROVIDED, ERECTED AND MAINTAINED BY THE CONTRACTOR AND SHALL CONFORM TO THE MOST RECENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE KDOT TE STANDARD DRAWINGS, AND THE AASHTO ROADSIDE DESIGN GUIDE, WHICHEVER IS MOST STRINGENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IN POSITION, CLEANING, AND REPLACING DAMAGED TRAFFIC CONTROL DEVICES.
- THE ENGINEER SHALL DETERMINE THE FINAL LOCATION OF ALL TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICES AS DIRECTED IN THE GENERAL NOTES OF THESE CONSTRUCTION PLANS AND THE SPECIFICATIONS. THE CONTRACTOR SHALL SEQUENCE DRIVEWAY CONSTRUCTION AND COORDINATE WITH THE ADJACENT PROPERTY OWNERS SO AS TO MINIMIZE THE DURATION OF TIME PROPERTY OWNERS DO NOT HAVE ACCESS TO THEIR DRIVEWAY.
- USE KDOT STANDARD DRAWING TE720 WHEN WORK IS LOCATED BEHIND THE CURB AND/OR ADJACENT TO THE STREET AND DOES NOT REQUIRE LANE CLOSURE.
- A MINIMUM OF ONE-LANE SHALL REMAIN OPEN AT ALL TIMES TO BOTH DIRECTIONS OF TRAVEL ON MAPLE STREET (US-59).
- MAPLE STREET/4TH AVE TRAFFIC SIGNAL OPERATIONS: THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF GARNETT FOR ANY SIGNAL TIMING AND SIGNAL PHASING ADJUSTMENTS TO THE EXISTING TRAFFIC SIGNAL SYSTEM. CHANGES TO THE SIGNAL PHASING AND/OR TIMING SHALL ONLY BE PERFORMED BY CITY OF GARNETT STAFF.
 - THE EXISTING SIGNAL SYSTEM SHOULD BE USED TO CARRY TRAFFIC THROUGH THE INTERSECTION DURING CONSTRUCTION.
 - SIGNAL PHASING FOR THE EAST AND WEST TRAFFIC MOVEMENTS SHOULD REMAIN IN THE CURRENT PHASING PATTERN.
 - IF NECESSARY TO ACCOMMODATE TRAFFIC PATTERNS DURING CONSTRUCTION, SIGNAL PHASING FOR THE NORTHBOUND AND SOUTHBOUND MOVEMENTS MAY BE MODIFIED TO OPERATE IN A SPLIT-PHASE MODE SUCH THAT THE NORTHBOUND AND SOUTHBOUND MOVEMENTS ARE NOT ALLOWED TO TIME GREEN CONCURRENTLY.
- INTERSECTIONS AND DRIVEWAYS: SEE KDOT STANDARD TE705 FOR MAINTAINING ACCESS TO ENTRANCES/INTERSECTIONS DURING CONSTRUCTION. EVERY EFFORT SHALL BE MADE TO KEEP ENTRANCES AND SIDE STREETS OPEN TO THE EXTENT FEASIBLE DURING CONSTRUCTION. SEQUENCE INTERSECTION RECONSTRUCTION SUCH THAT A ONE-BLOCK CLOSURE OF THE SIDE STREETS IS ALTERNATED TO EVERY-OTHER INTERSECTING STREET. SEQUENCE WORK AT PROPERTIES WITH MULTIPLE ENTRANCES TO MAINTAIN AT LEAST ONE OPEN ENTRANCE AT ALL TIMES. ENTRANCES TO A PROPERTY THAT HAVE ONLY ONE ACCESS SHALL BE CONSTRUCTED ONE-HALF AT A TIME. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS WHEN CONSTRUCTION ACTIVITIES LIMIT ACCESS TO THEIR PROPERTY.
- PEDESTRIAN TRAFFIC CONTROL:
 - USE KDOT STANDARD DRAWING TE704 TO CLOSE THE NORTH CROSSWALK AT MAPLE/4TH AVE. PROVIDE PEDESTRIAN BARRICADES AND SIGNS TO DIRECT TRAFFIC TO USE THE SOUTH CROSSWALK TO CROSS MAPLE STREET (US-59).
 - DUE TO A LACK OF EXISTING SIDEWALK CONTINUITY AND ALTERNATE ACCESSIBLE PEDESTRIAN ROUTES, CONTRACTOR MAY CLOSE THE EAST SIDEWALK OF MAPLE STREET (US-59) BETWEEN 4TH AVENUE AND REDBUD AVENUE, BUT THE SIDEWALK CLOSURE SHOULD BE LIMITED TO ONLY THE BLOCK(S) WHERE CONSTRUCTION WORK IS ACTIVE. EXISTING BLOCKS OF SIDEWALK NOT IMPACTED BY THE WORK AREA SHOULD REMAIN OPEN TO PEDESTRIANS TO THE EXTENT FEASIBLE.

KANSAS DEPARTMENT OF TRANSPORTATION

MAPLE STREET (US-59)
TRAFFIC CONTROL PLAN

Drawn By : mushock
File : te700.dgn
Plotted :29-MAR-2018 12:40
Traffic

- 1) Design Speed: Those items delegated to temporary traffic control should be designed and installed using the posted/legal speed of the roadway prior to work starting.
- 2) Minimum Lane Width: Lane widths shall be a minimum of 11' (measured between centerlines of pavement markings) or as shown on the plans, or as directed by the engineer. A lane width less than 11' may require restricted roadway width signing.
- 3) Consideration should be made to separate pedestrian and, if needed, bicycle movements from both work site activity and vehicular traffic. Unless a reasonable safe route that does not involve crossing the roadway can be provided, pedestrians should be appropriately directed with advance signing that encourages them to cross to the opposite side of the roadway. In urban and suburban areas with high vehicular traffic volumes, these signs should be placed at intersections (rather than midblock locations) so that pedestrians are not confronted with midblock work sites that will induce them to attempt skirting the work site or making a midblock crossing.
- 4) When existing pedestrian facilities are disrupted, closed, or relocated, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- 5) When the driving surface open to traffic is milled or is a temporary surface made of loose material, or when directed by the engineer a W8-15 (Grooved Pavement) or W8-7 (Loose Gravel) sign shall be used on mainline approaches. This sign should be placed a "C" distance after the W20-1 (Road Work Ahead) sign. A W8-15p motorcycle plaque shall be used to supplement the W8-15 or W8-7 signs. All signs shall be displayed as long as the condition is present.
- 6) Alternative temporary rumble strip options may be available. Please contact the Temporary Traffic Control Unit for more information at 785-296-1179 or 785-296-1183.



TYPICAL WORK ZONE COMPONENTS

✱ When concrete barrier system is used, portable channelizing devices are not needed along the tangent barrier section.

Minimum advance warning sign spacing (in feet):

SPEED (MPH) ✱	A	B	C
URBAN (40 MPH OR LOWER)	100	100	100
URBAN (45 MPH OR HIGHER)	350	350	350
RURAL (55 MPH OR LOWER)	500	500	500
RURAL (60 MPH OR HIGHER)	750	750	750
EXPRESSWAY/FREEWAY	1000	1500	2640

- ✱ Posted speed prior to work starting
- The minimum spacing between signs shall be no less than 100', unless directed by the engineer.
- The spacing between any signs may be increased beyond the minimum values in the table above as approved by the engineer in order to maximize visibility.

Taper Formulas:

$L = WS$ for speeds of 45 MPH or more

$L = WS^2/60$ for speeds of 40 MPH or less

Where: L = Minimum length of taper in feet
 S = Numerical value of posted speed prior to work starting in MPH
 W = Width in offset feet

Shifting Taper= $1/2 L$
Shoulder Taper= $1/3 L$

Channelizer Placement:

- The spacing between devices in transition area (taper) should not exceed a distance in feet equal to 1/2 the posted speed limit in mph prior to work starting.
- The spacing between devices in the advanced warning area and the activity area should not exceed a distance in feet equal to two times the posted speed limit in mph prior to work starting.
- Channelizing devices shall be placed for optimum visibility, normally at right angles to the traffic flow.
- Place directional indicator barricades in series to direct traffic onto the new path. The arrow sign should not be visible to opposing traffic.
- Alternating diagonal orange and white striping must slope downward in the direction traffic is expected to pass.

Buffer Space

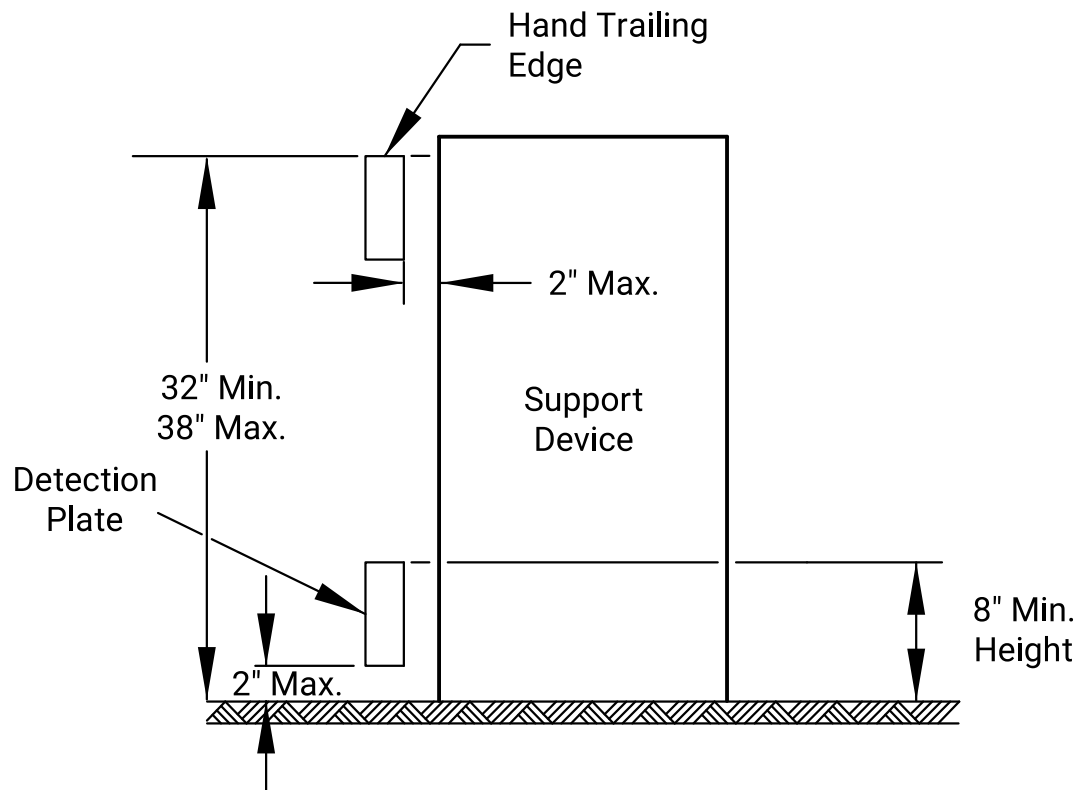
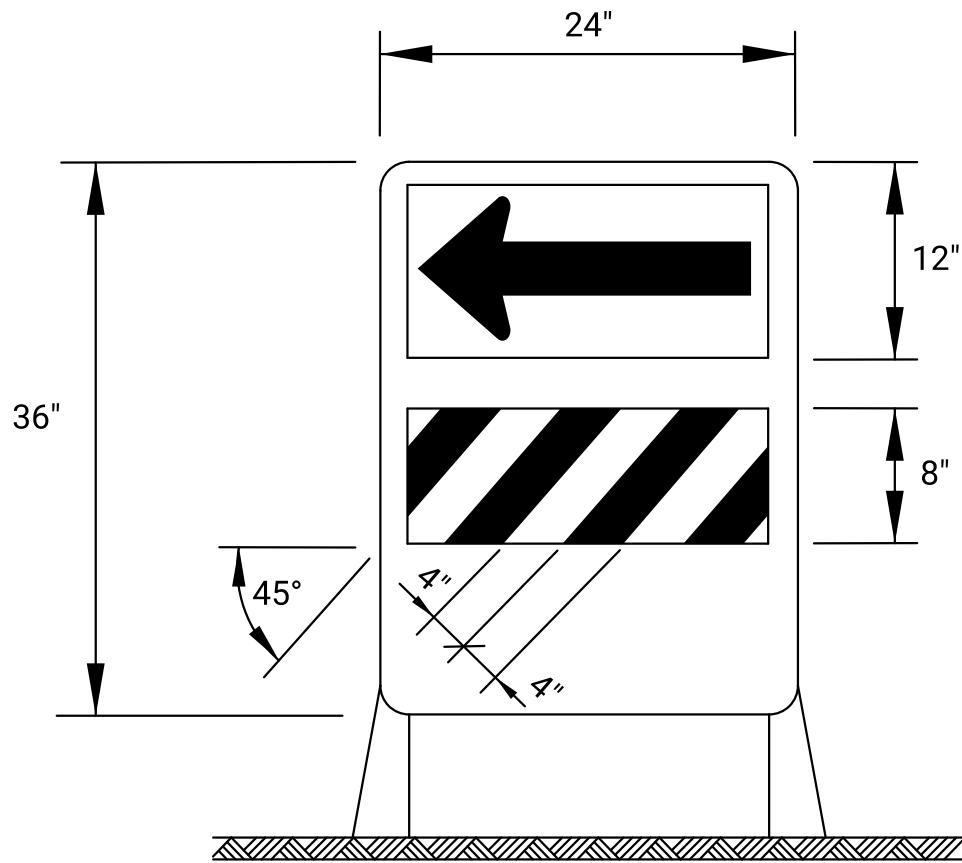
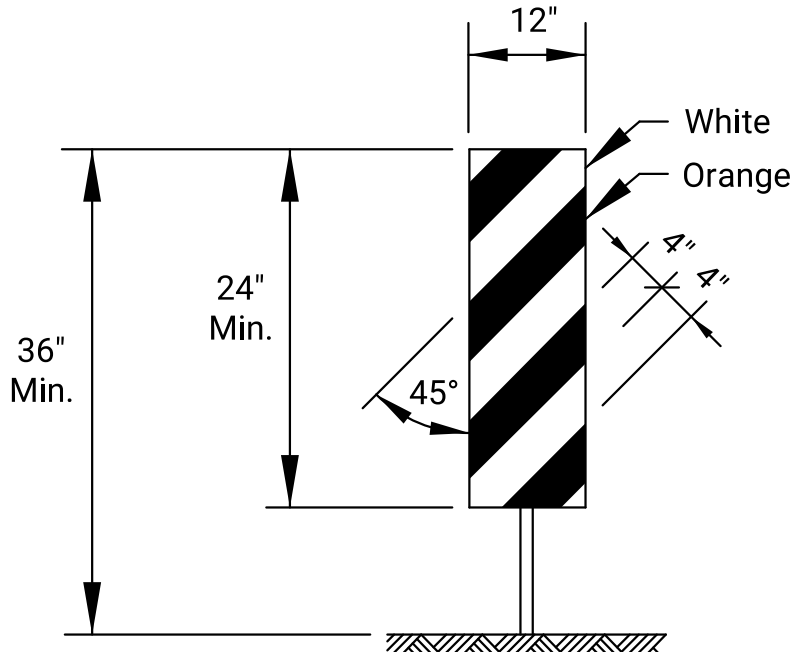
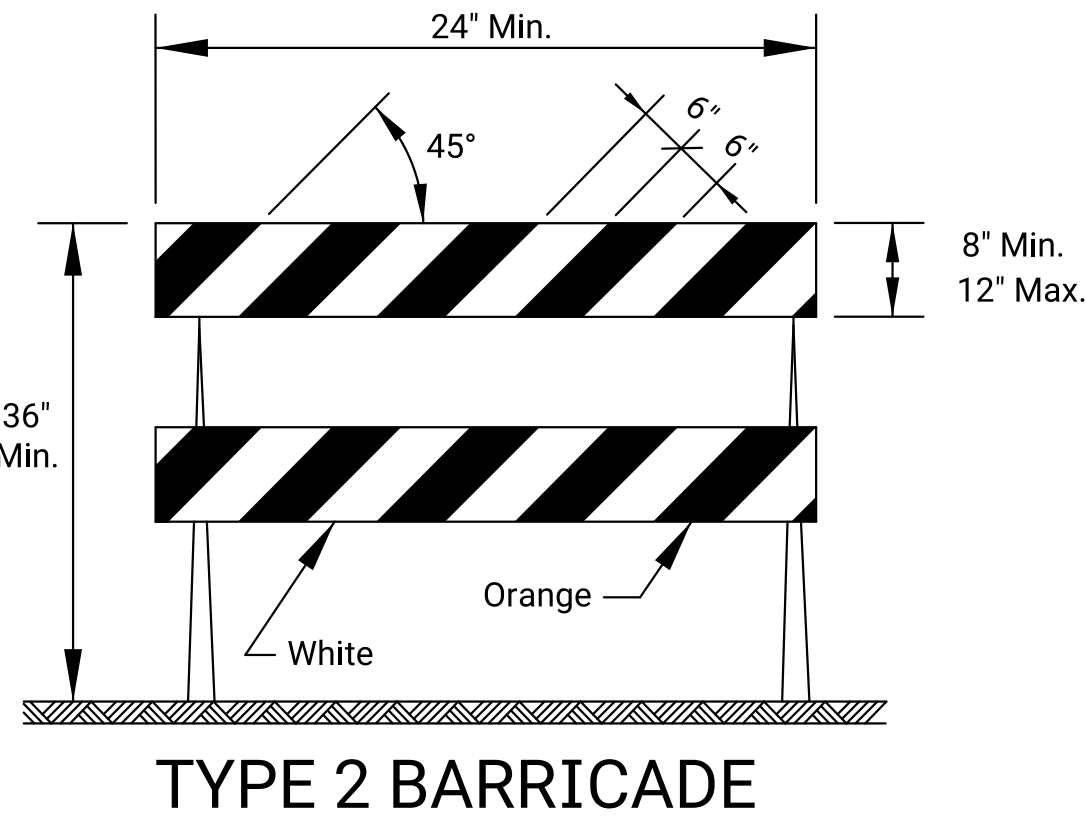
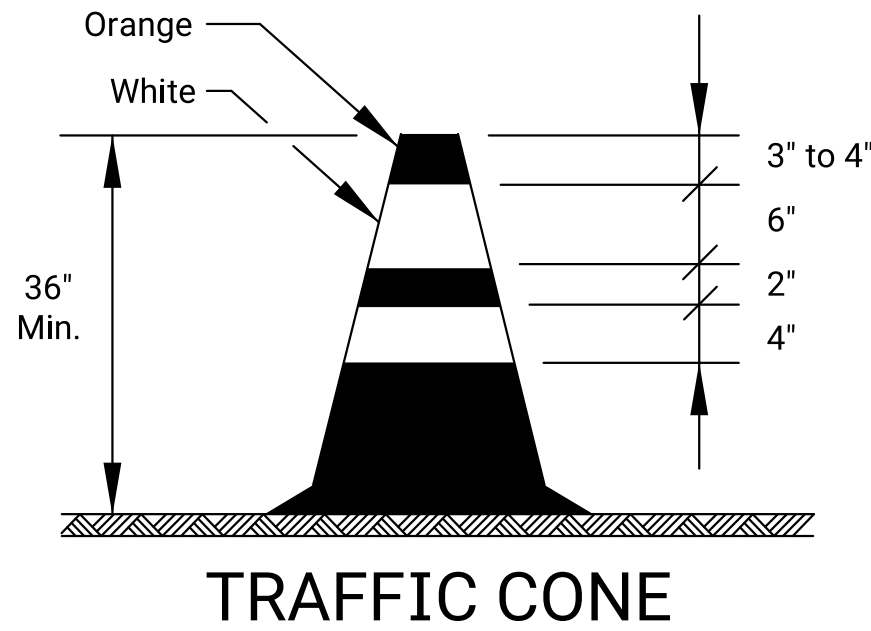
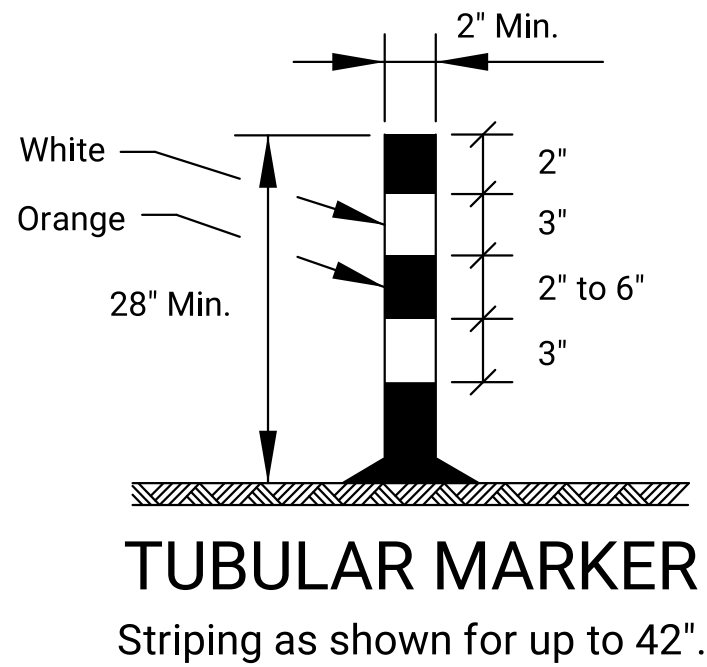
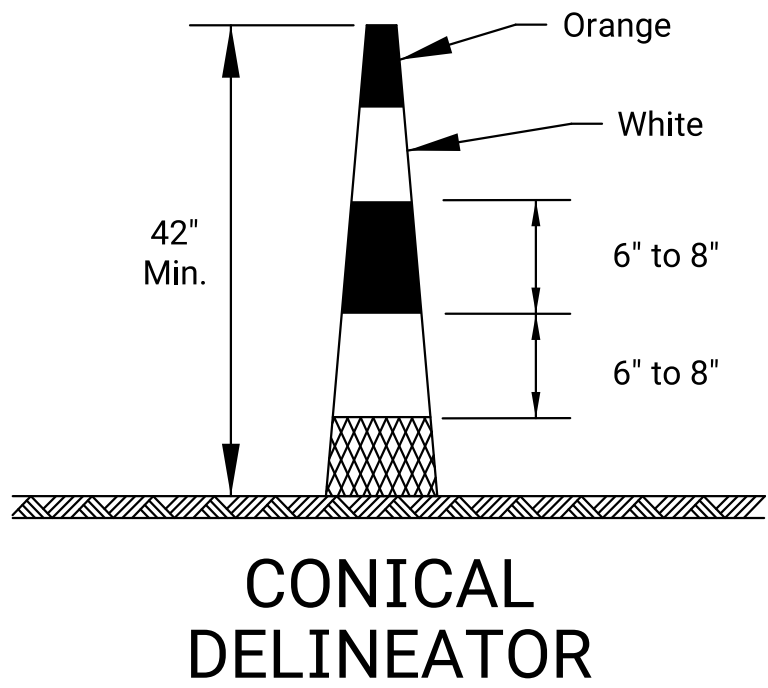
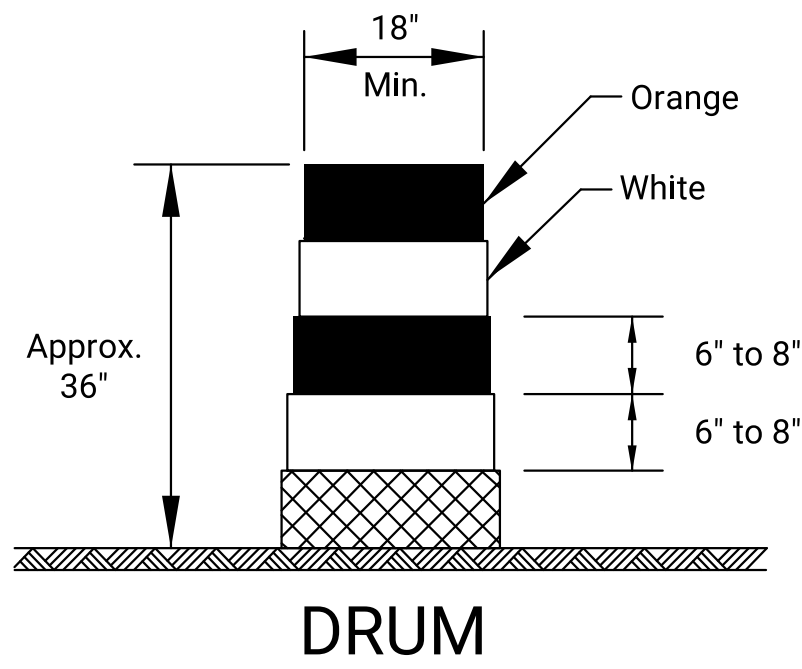
SPEED (MPH) ✱	20	25	30	35	40	45	50	55	60	65	70	75
LENGTH (ft)	115	155	200	250	305	360	425	495	570	645	730	820

- ✱ Posted speed prior to work starting

Neither work activity nor storage of equipment, vehicles, or material should occur in the buffer space. When a protection vehicle is placed in advance of the work space, only the space upstream of the vehicle constitutes the buffer space.

If temporary concrete safety barrier system is used to separate approaching traffic from the work space, the barrier system shall be considered part of the activity area. A full lane width should be available throughout the length of the buffer space. See typical work zone components above.

3					
2	03/13/18	W8-15p usage changed to Shall	R.W.B.	E.G.K.	
1	08/18/15	Channelizer spacing info	R.W.B.	K.E.	
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL GENERAL NOTES					
TE700					
FHWA APPROVAL		03/13/18	APPD	Eric Kocher	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.



TYPE 2 BARRICADE

For rails less than 36" long, 4" wide stripes may be used.
All stripes shall slope downward to the traffic side for channelization.

VERTICAL PANEL

The stripes shall slope downward to the traffic side for channelization.

DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass.
The direction indicator barricade shall be used in series to direct the motorist into the intended lane of travel.

PEDESTRIAN CHANNELIZER

1. Support device shall not project beyond the detection plate into the pathway.
2. Hand trailing edges and detection plates are optional for continuous walls.
3. Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.
4. Alternate pathways shall be firm, stable, and slip resistant.
5. Treat height differentials > 1/2" in the surfaces of alternate paths with a firm, stable, and slip resistant temporary ramp having a slope of 12:1 or flatter and having a width equal to the alternate path.
6. Use alternating orange/white on interconnected devices.

Location		Cross-overs	Shoofly Divisions	Tangents	Tapers	Ramps	Head to Head	Object Identifier	Lead-in Devices	Gores
Item										
Portable	Drums	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Conical Delineators	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Vertical Panels	(2)	(2)	(2)	(2)	(2)	(1,2)	Yes	(2)	(2)
	Direction Indicator Barricade	No	No	No	Yes	No	No	No	No	No
	Type 2 Barricade	(2)	(2)	(2)	(2)	No	No	Yes	No	No
	Traffic Cones	No	No	(4)	(4)	(4)	No	(4)	(4)	(4)
Fixed										
	Tubular Markers	(3)	(3)	(3)	No	(3)	Yes	No	Yes	Yes
	Vertical Panels	(3)	(3)	(3)	(3)	(3)	(3)	Yes	(2,3)	(2)

- (1) Not allowed on centerline delineation along freeways or expressways.
- (2) The stripes shall slope downward to the traffic side for channelization.
- (3) May be used upon the approval of the engineer.
- (4) Daytime operations only.

3					
2					
1					
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL CHANNELIZING DEVICES					
TE702					
FHWA APPROVAL 06/01/15 APPD Kristina Erickson					
DESIGNED	L.E.R.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	57	69

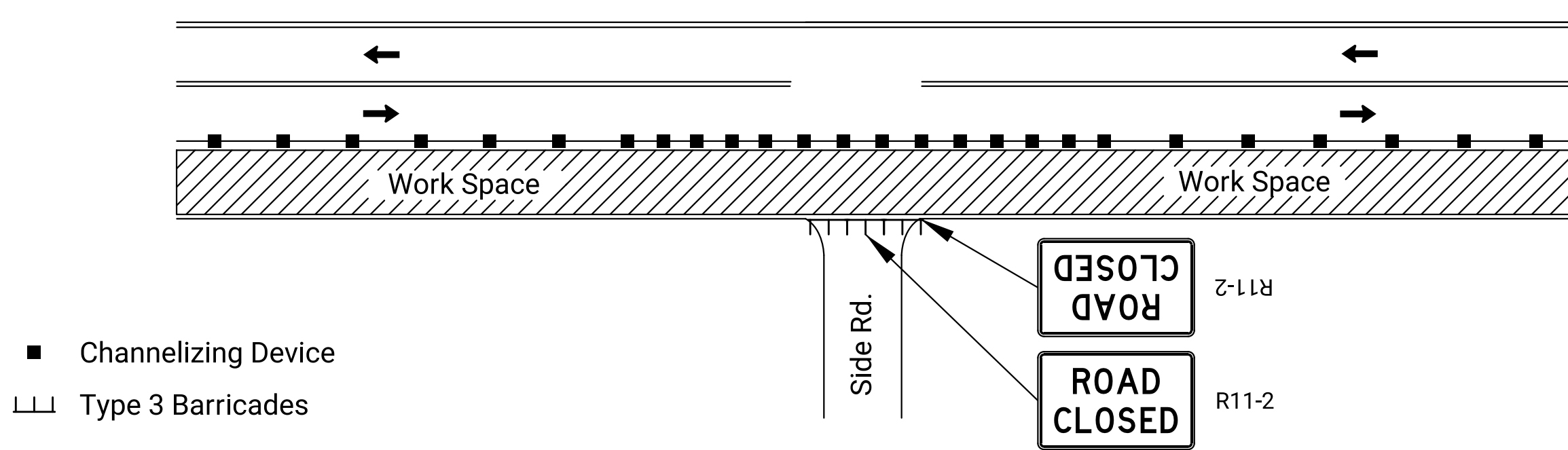


FIGURE 1: SIDE ROAD OR ENTRANCE CLOSED THROUGH WORK AREA

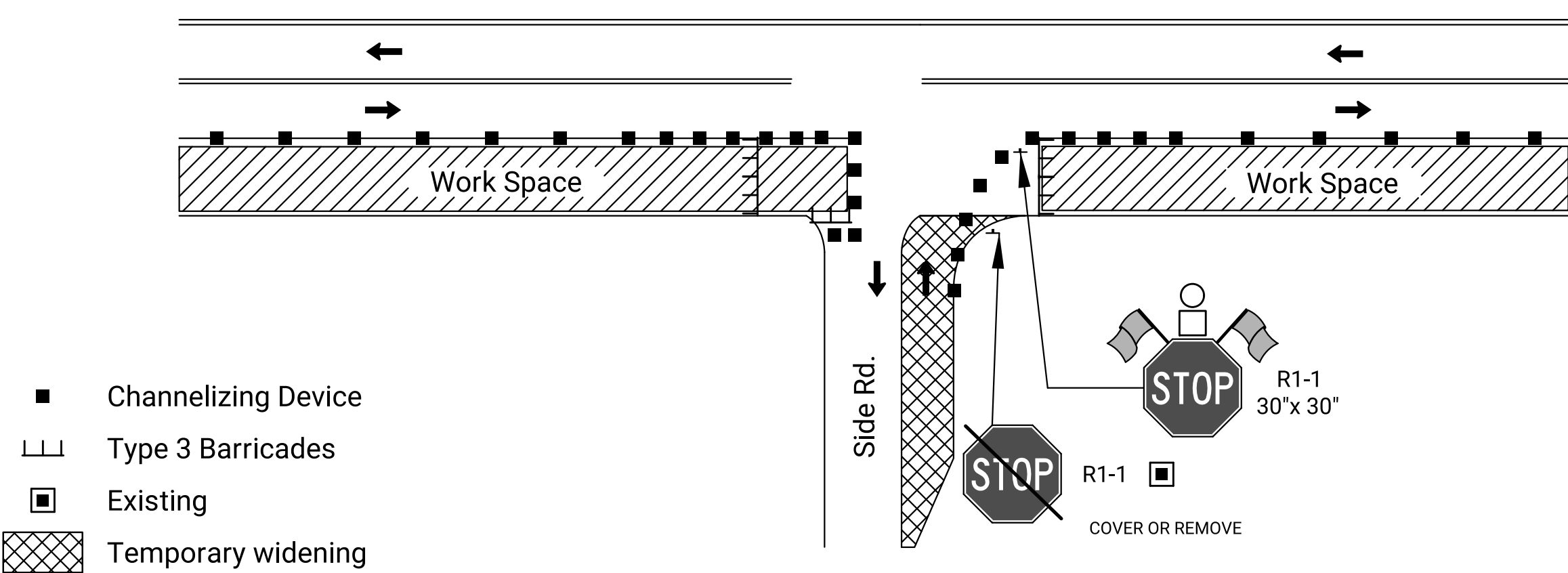


FIGURE 4: SIDE ROAD OR ENTRANCE CONSTRUCTED HALF AT A TIME:
TWO WAY TRAFFIC REQUIRED

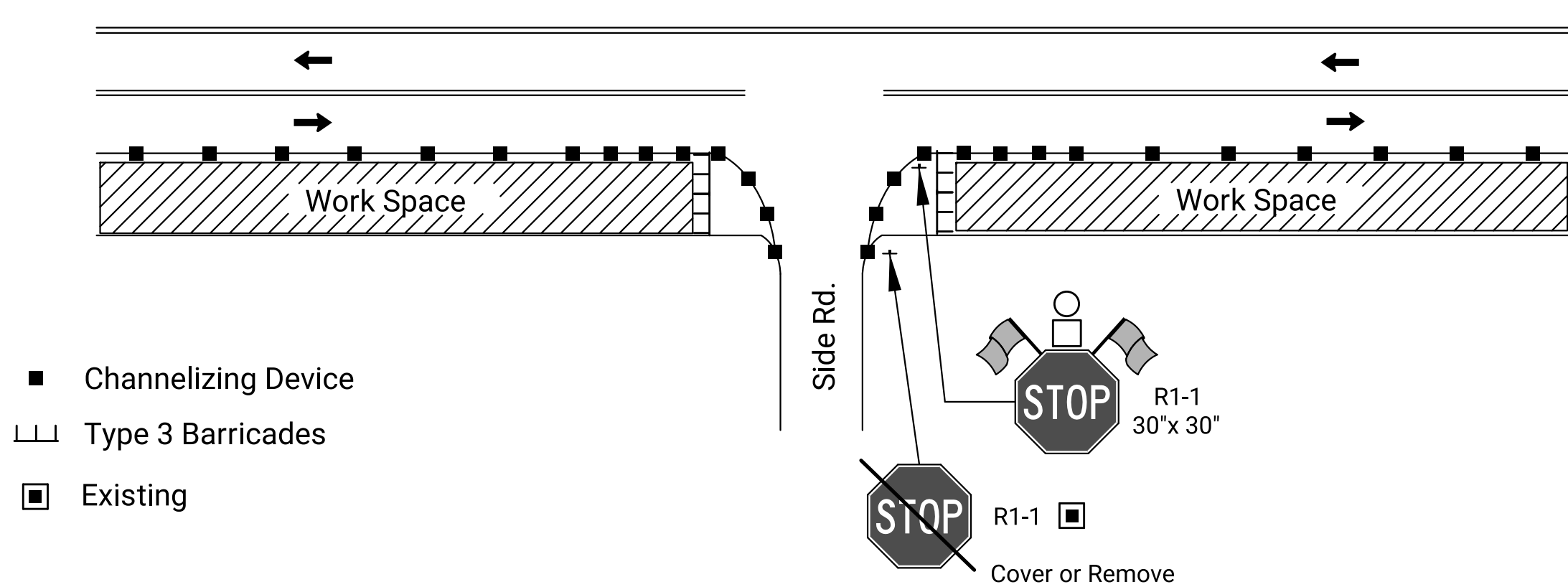


FIGURE 2: SIDE ROAD OR ENTRANCE OPEN THROUGH WORK AREA

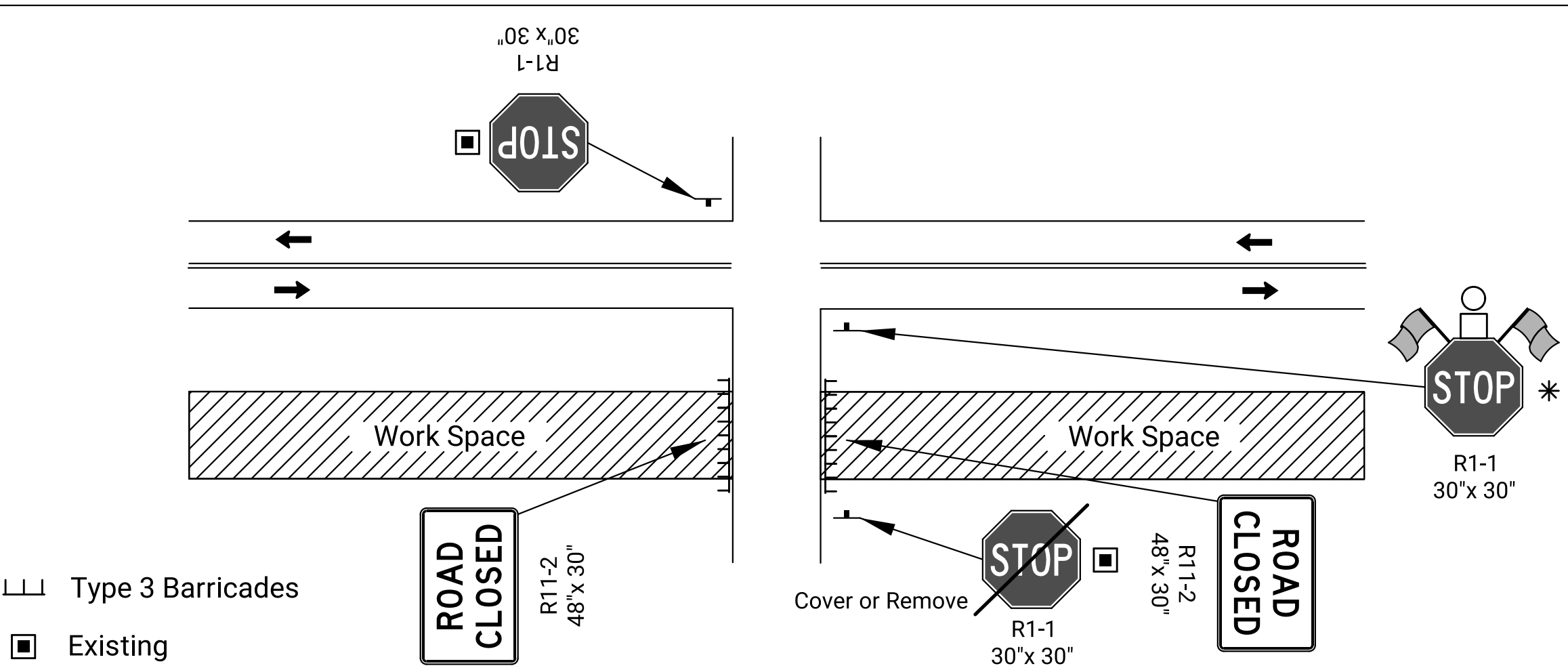


FIGURE 5: SIDE ROAD OPEN THROUGH WORK AREA ON DIVIDED ROADWAY

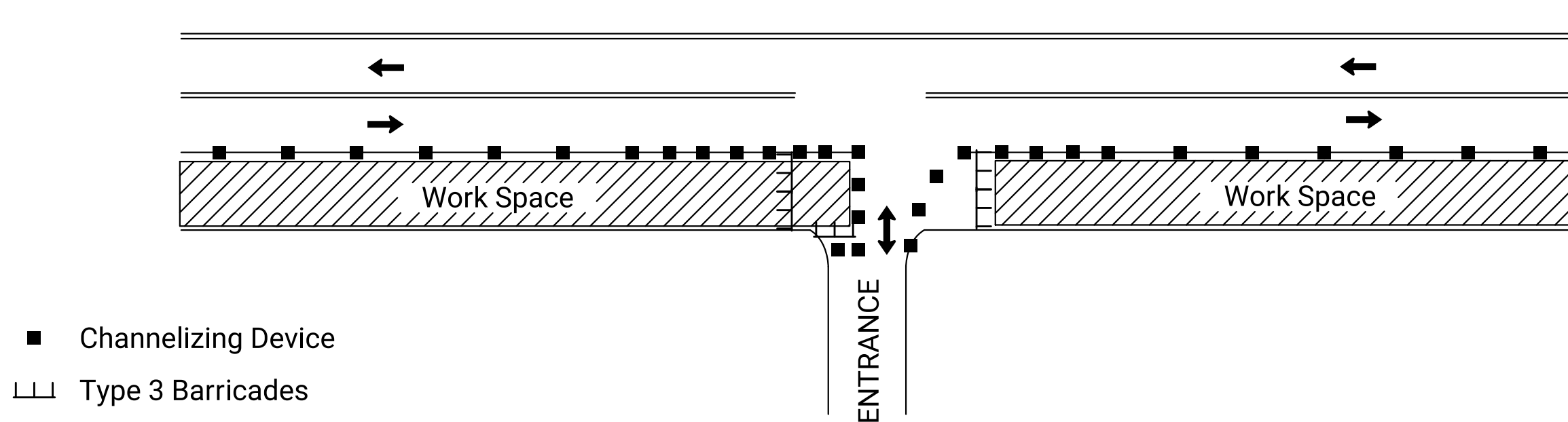
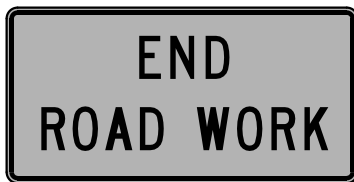


FIGURE 3: LOW VOLUME ENTRANCE CONSTRUCTED HALF AT A TIME

Note: Consider large vehicles making right turns into and out of entrance
and use figure 4 as needed

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
TRAFFIC CONTROL ACCESS THROUGH THE WORK AREA				
TE705				
FHWA APPROVAL	06/01/15	APP'D	Kristina Erickson	
DESIGNED	R.W.B.	DETAILED		TRACED
DESIGN CK.		DETAIL CK.	QUAN. CK.	TRACE CK.

SIGN LAYOUT INFORMATION



KG20-2

Std. Size
Expwy/Freeway
6" C
48"x 24"



KG20-5

Std. Size
Expwy/Freeway
6" C
48"x 24"



KM4-20

Std. Size
3" C
24"x 6"

Expwy/Freeway
6" C
48"x 12"



W7-3a

Mileage to be Determined
by the Engineer.



W8-17

Std. Size
Expwy/Freeway
48"x 48"



W8-17P
(Optional)

Std. Size
Expwy/Freeway
30"x 24"



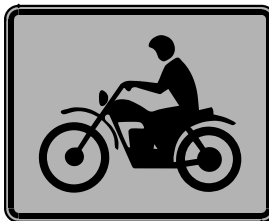
W8-15

Std. Size
Expwy/Freeway
8" D
48"x 48"



W8-7

Std. Size
Expwy/Freeway
8" D
48"x 48"



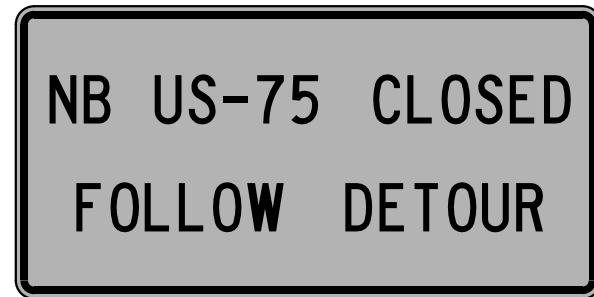
W8-15p

Std. Size
Expwy/Freeway
30"x 24"



W8-11

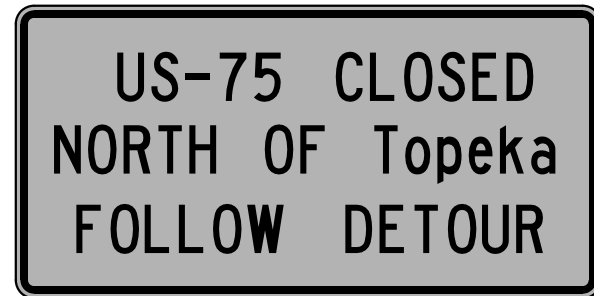
Std. Size
Expwy/Freeway
8" D
48"x 48"



SP-01
(Special Sign)

Std. Size
6" C

Expwy/Freeway
10" D

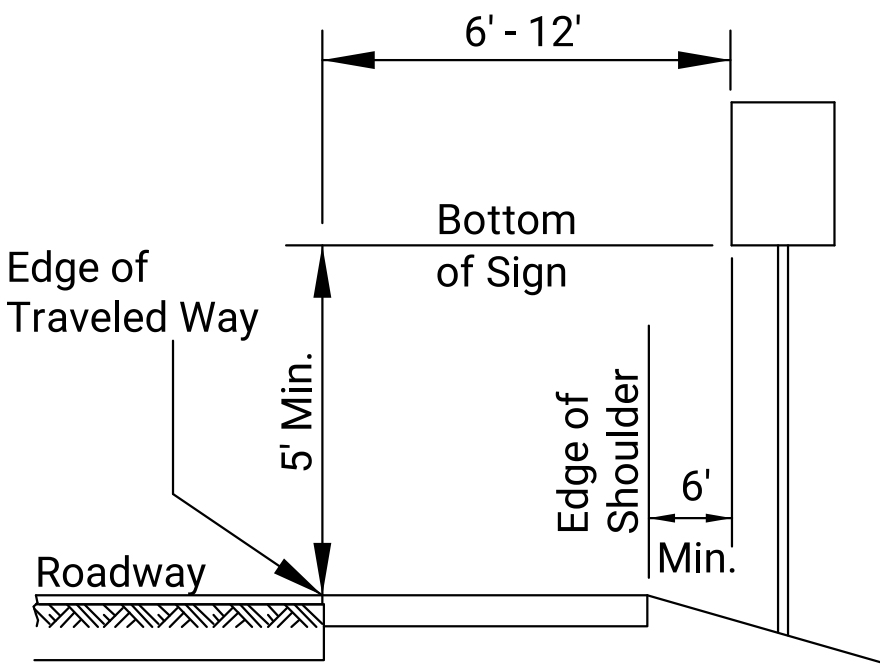


SP-02
(Special Sign)

Std. Size
Uppercase: 6" C
Lowercase: 4.5" C

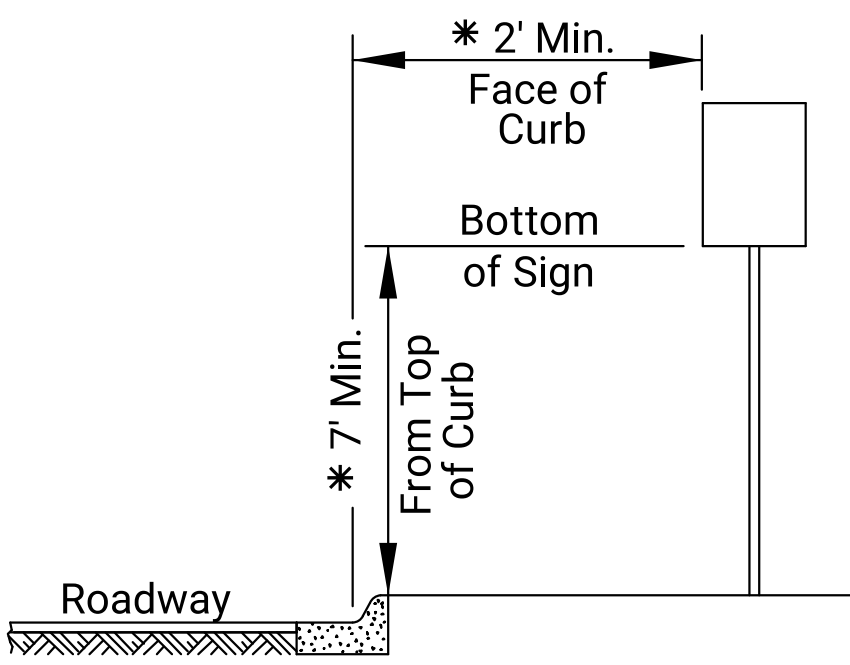
Expwy/Freeway
Uppercase: 10" D
Lowercase: 8" D

All city names and street names on special signs and destination signs
must have upper and lower case letters.



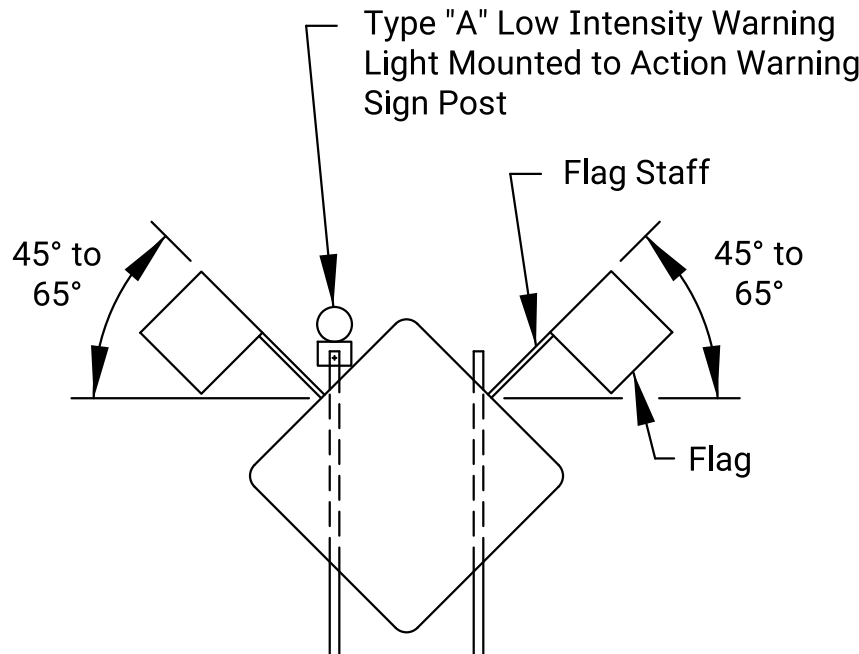
RURAL

- 1) Ground-mounted signs shall be mounted at a minimum height of 5' measured from the bottom of sign to the near edge of the pavement.
- 2) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.
- 3) The height of the secondary sign mounted below another sign may be 4' measured from the bottom of the sign to the near edge of the pavement. Signs shall not overlap each other.



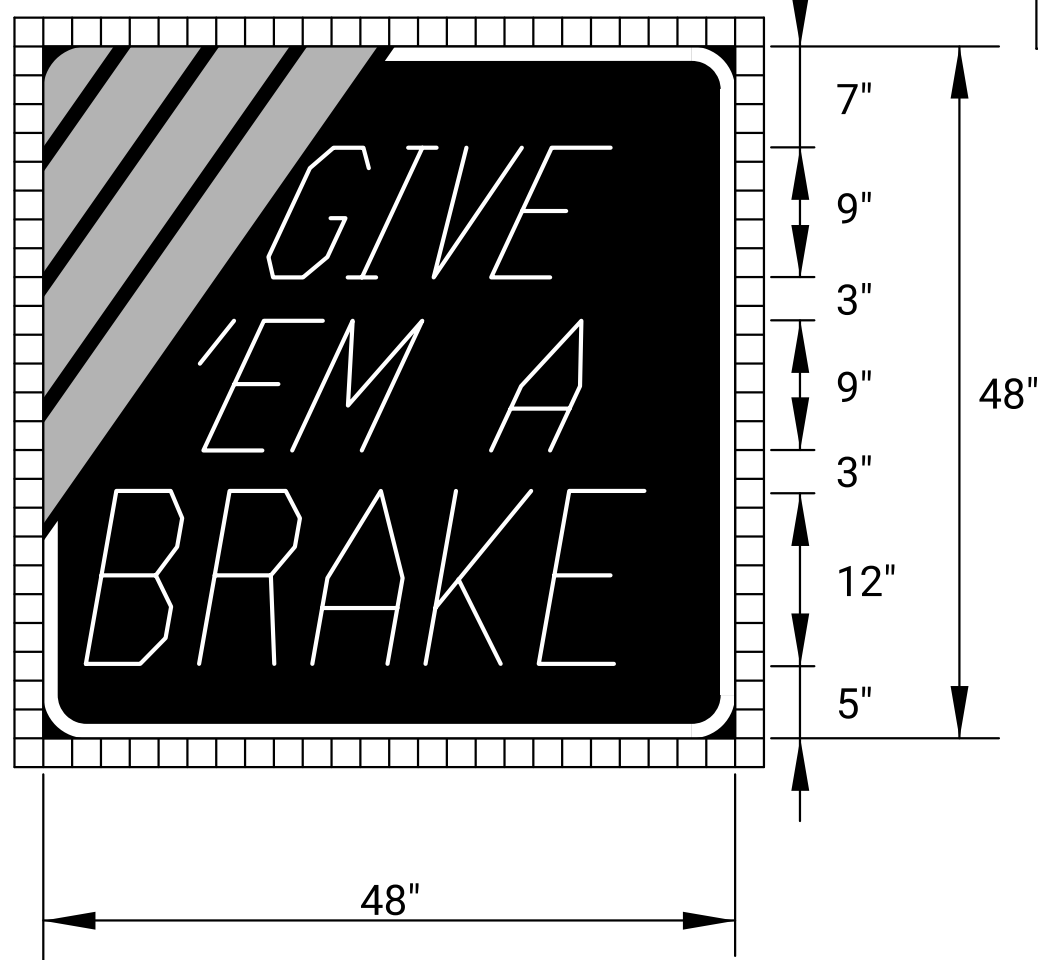
URBAN

- 1) Signs shall be mounted at a minimum height of 7' measured from the bottom of sign to the near edge of the pavement.
- 2) Neither portable nor permanent sign supports should be located on sidewalks or areas designated for pedestrian or bicycle traffic.
- 3) Signs mounted lower than 7' should not project more than 4" into pedestrian facilities.
- 4) The height from of the secondary sign mounted below another sign may be 6' measured from the bottom of sign to the near edge of the pavement. Signs shall not overlap each other.
- 5) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.
- * 6) Pedestrian detour signing shall be a minimum of 2' measured from the top of the pedestrian pathway to the bottom of the sign and shall not protrude into the walkway nor shall it project beyond the back of curb.

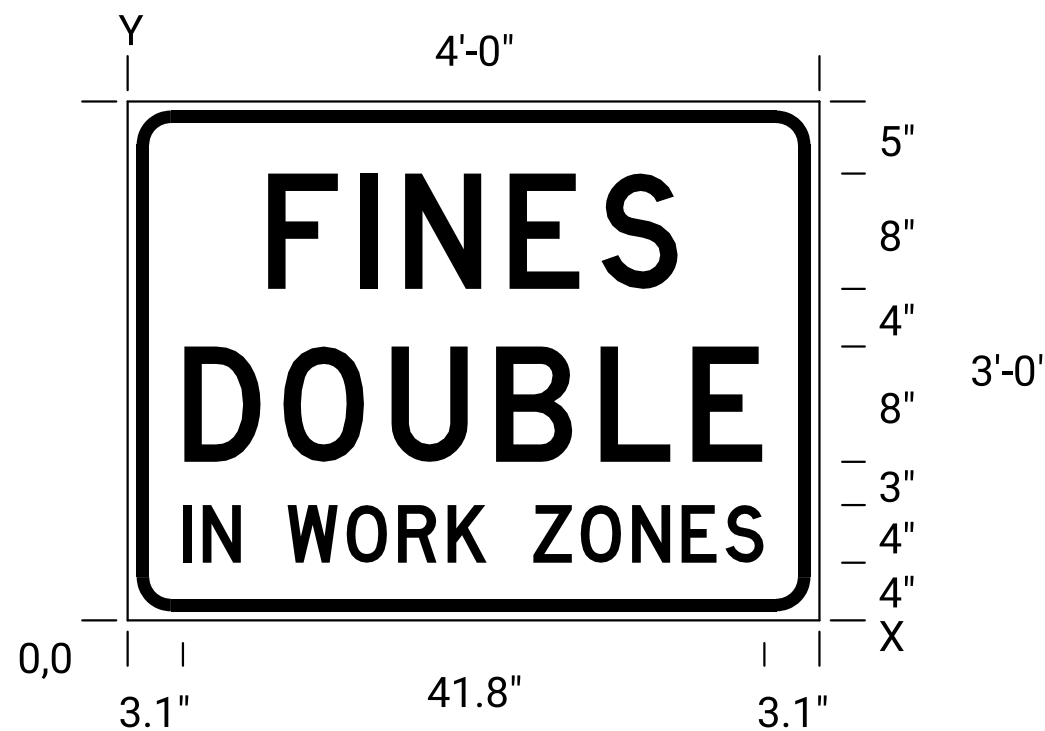


When the sign width is equal to or greater than 9', three or more wood posts may be used with a minimum of 4' between the centerline of each post. All signs less than 9' in width shall use a maximum of two wood posts.

- In the case of hitting rock when driving posts
1. Shift the sign location. Do not violate minimum sign spacing.
 2. With the engineer's approval, use acceptable alternative sign stands.



KI-104a



KI-105a

Sign Number	GIVE EM A BRAKE
Width x Height	4'-0" x 4'-0"
Border Width	1.0"
Corner Radius	4.0"
Stripe Width	3.0"
Mounting	Ground
Background	Type: Non-Reflective Color: Black
Legend/Border	Type: Reflective Color: White
Legend Font	Dutch 801 Roman SWC 25 Degree Slant
Stripes	Type: Reflective Color: Orange

Sign Number	FINES DOUBLE
Width x Height	4'-0" x 3'-0"
Border Width	0.9"
Corner Radius	3.0"
Mounting	Ground
Background	Type: Reflective Color: White
Legend/Border	Type: Non-Reflective Color: Black

Dimensions in inches

Spacings are to start of next letter

Y FONT	LETTER SPACINGS																HT LEN
23.0 D	X	F	I	N	E	S	X										8.0
	9.7	6.4	3.2	7.3	6.4	5.4	9.7										28.6
11.0 D	X	D	O	U	B	L	E	X									8.0
	3.9	6.9	7.5	7.3	6.4	4.9	3.9										40.3
4.0 D	X	I	N	X	W	O	R	K	X	Z	O	N	E	S	X		4.0
	3.1	1.6	2.7	3.2	4.3	3.8	3.6	2.8	3.2	3.4	3.8	3.6	3.2	2.7	3.1		41.8

Notes:

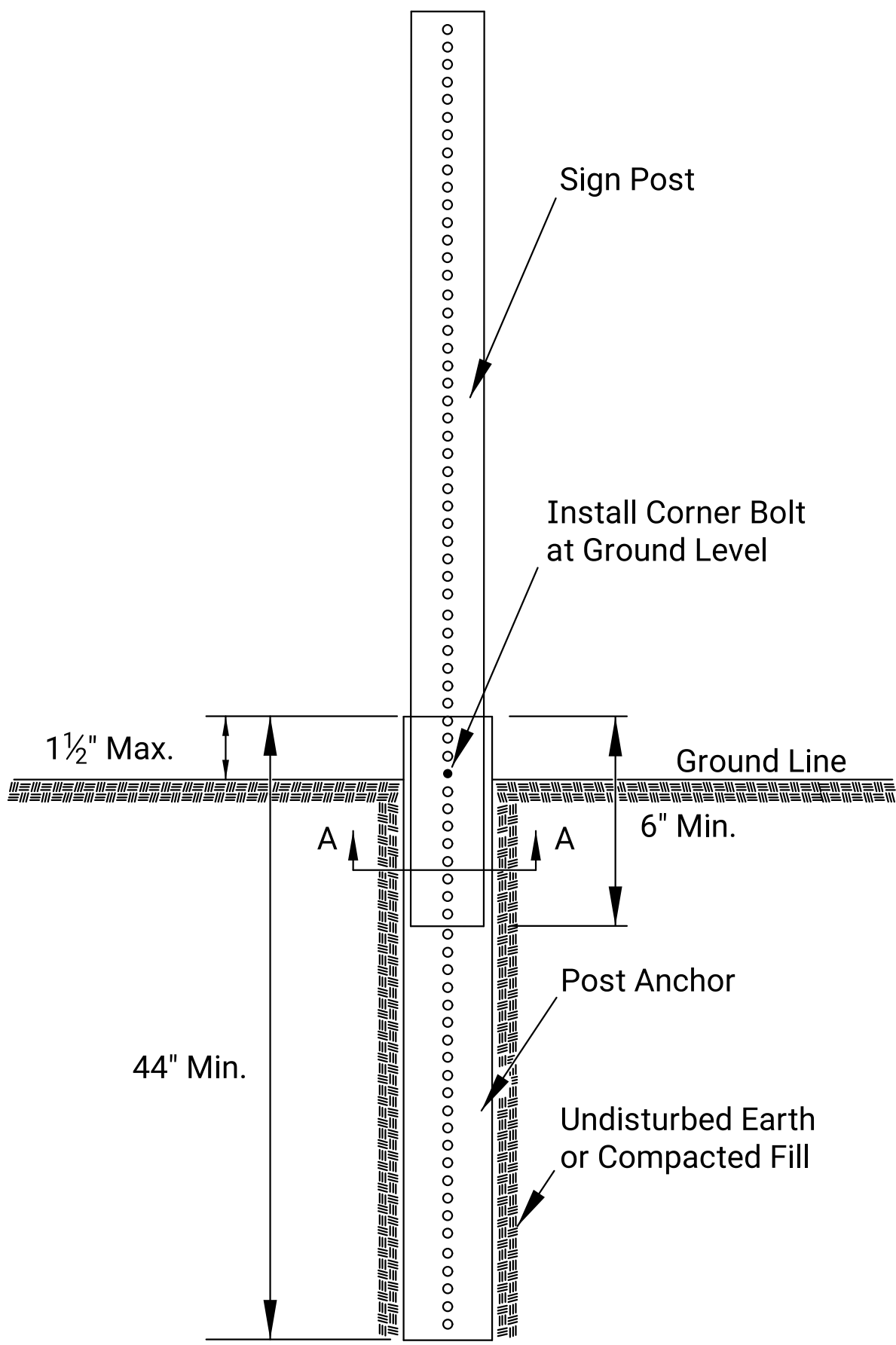
Typically, there are two sets of informational signs installed per project: one for each direction of traffic.

Install signs a minimum of 500' in advance of the road work ahead sign. The engineer may designate a more appropriate location if conditions dictate.

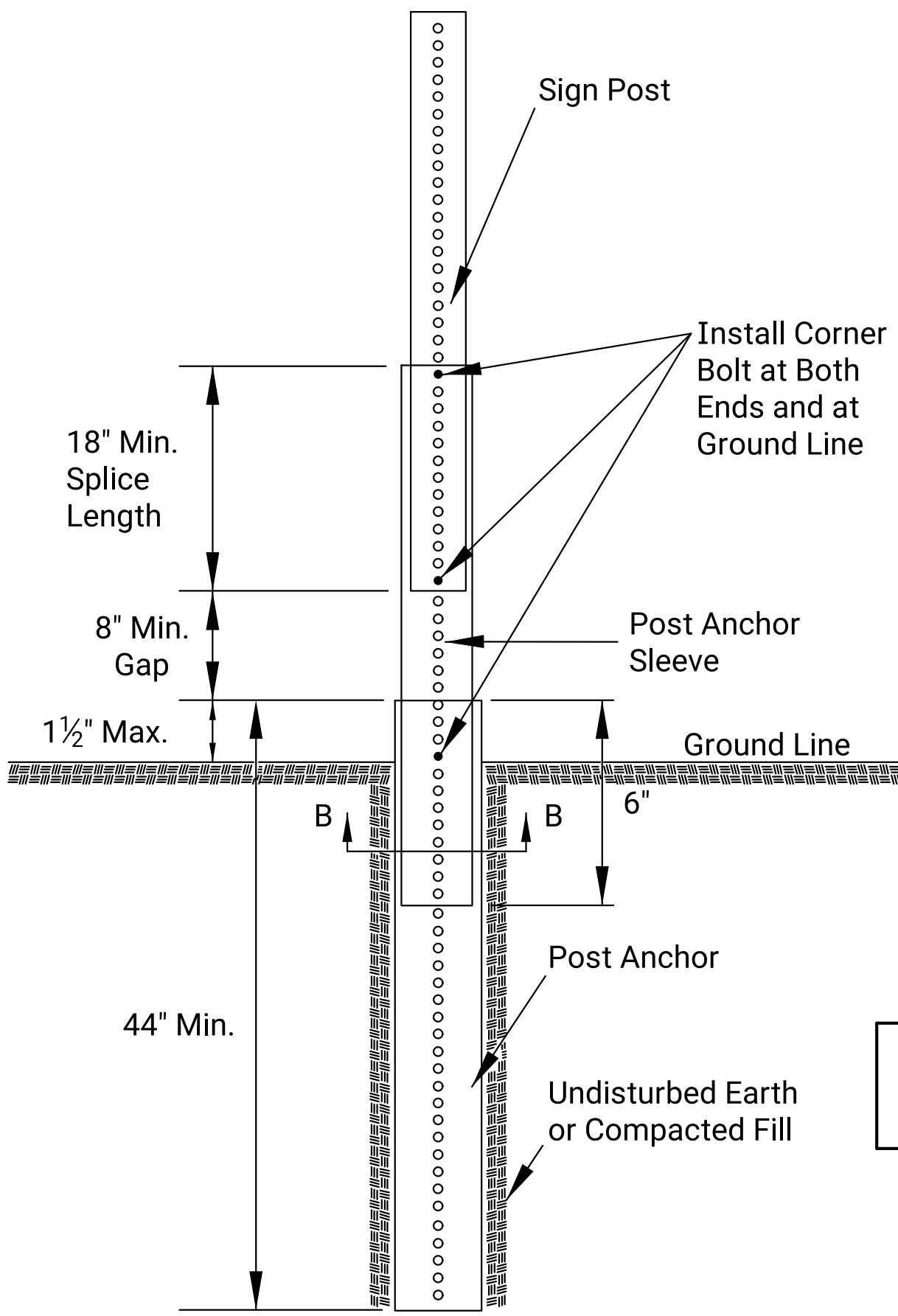
The informational signs are not to interfere with the traffic control signs for the project.

3					
2					
1					
NO.	DATE	REVISIONS			BY APP'D
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL SIGN INFORMATION					
TE710					
FHWA APPROVAL		06/01/15	APP'D	Kristina Pyle	
DESIGNED	R.W.B.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.
DOT Graphics Certified 03-29-2018					

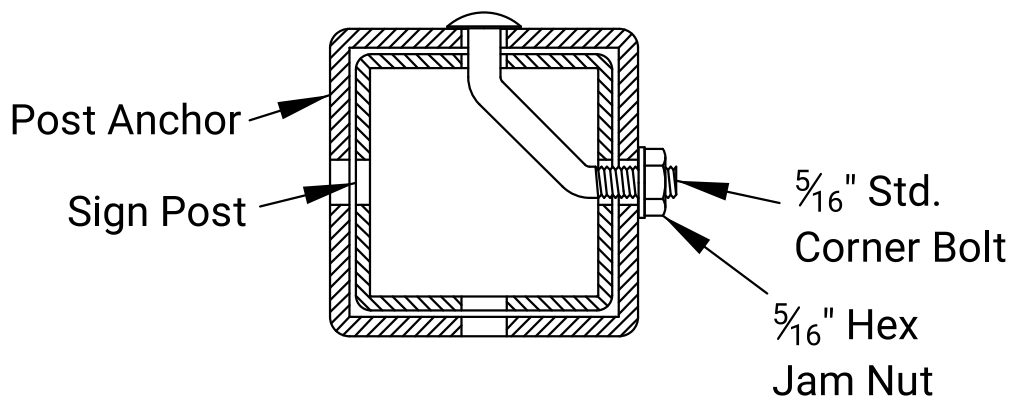
PERFORATED SQUARE STEEL TUBE (P.S.S.T.) POST SETUP



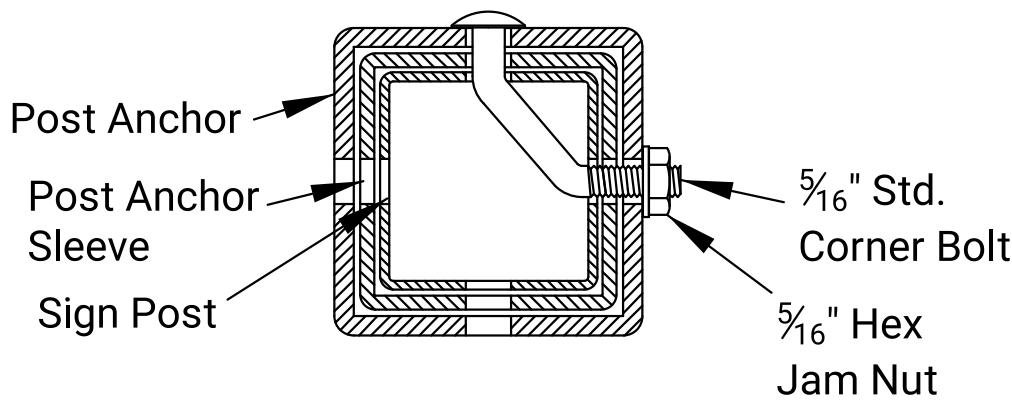
P.S.S.T. Detail



Telescoping P.S.S.T. Detail



Section A-A

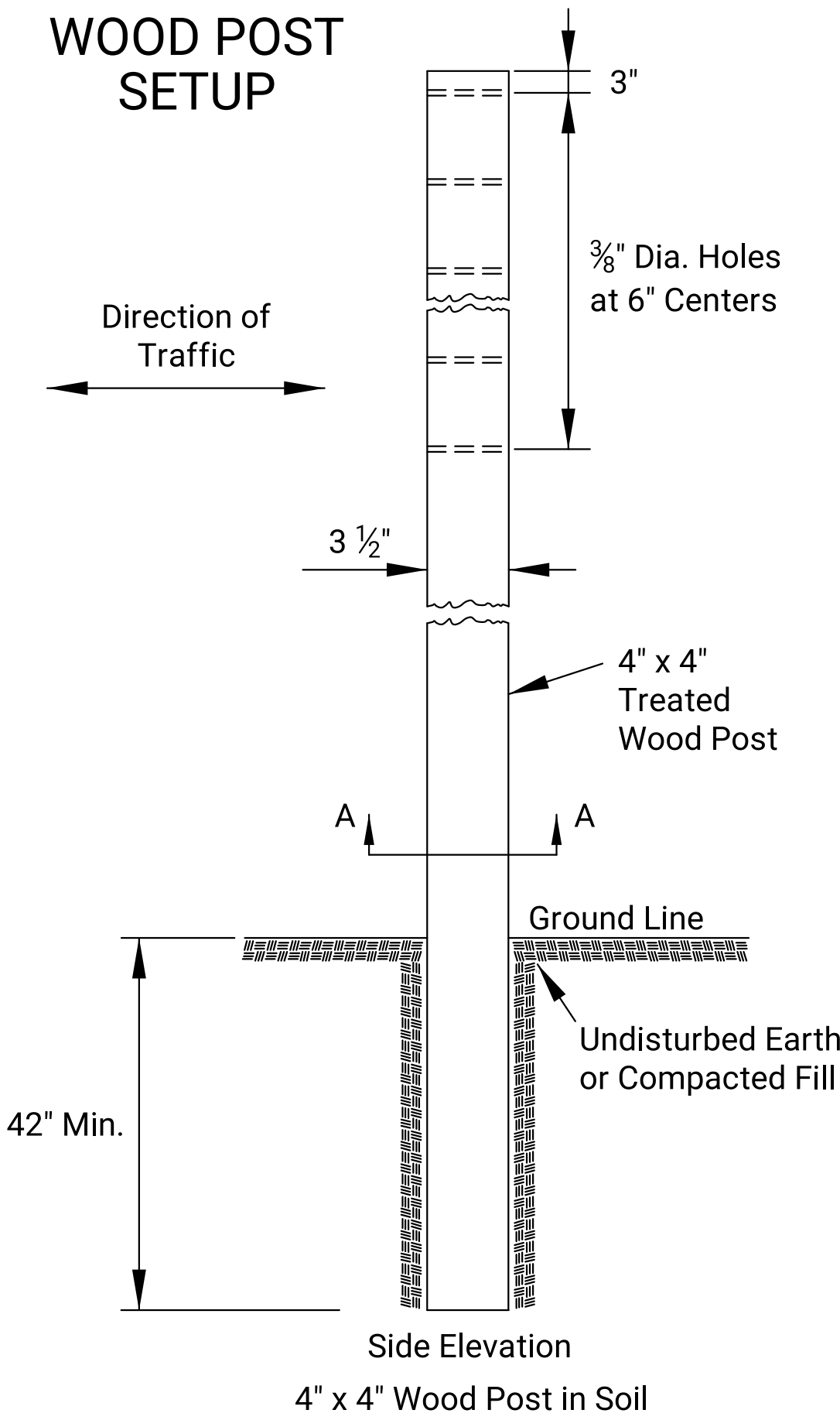


Section B-B

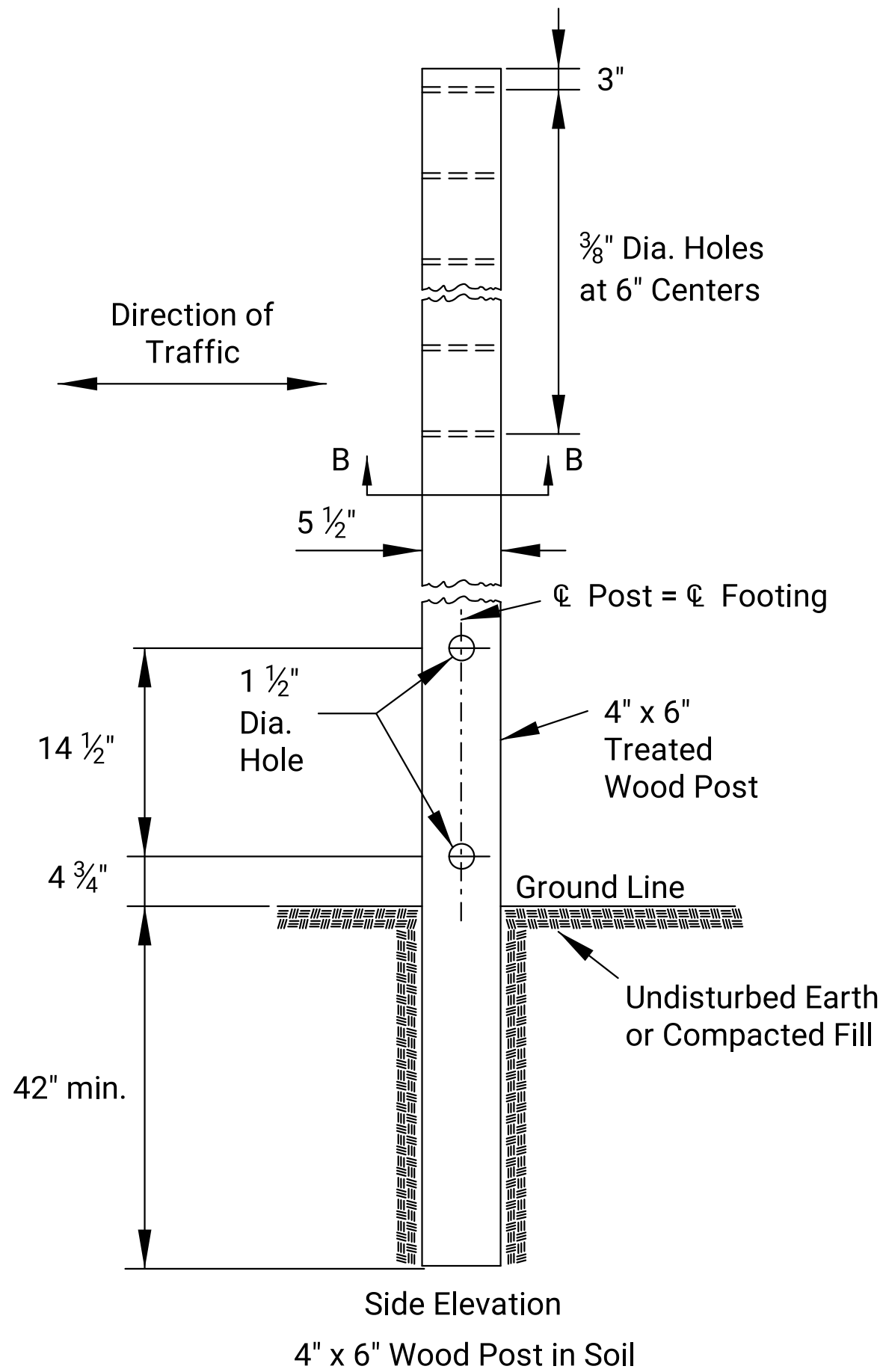
Details for 2", 2 1/4", or 2 1/2" sign posts

Place bolts in the same corner along each sign post.

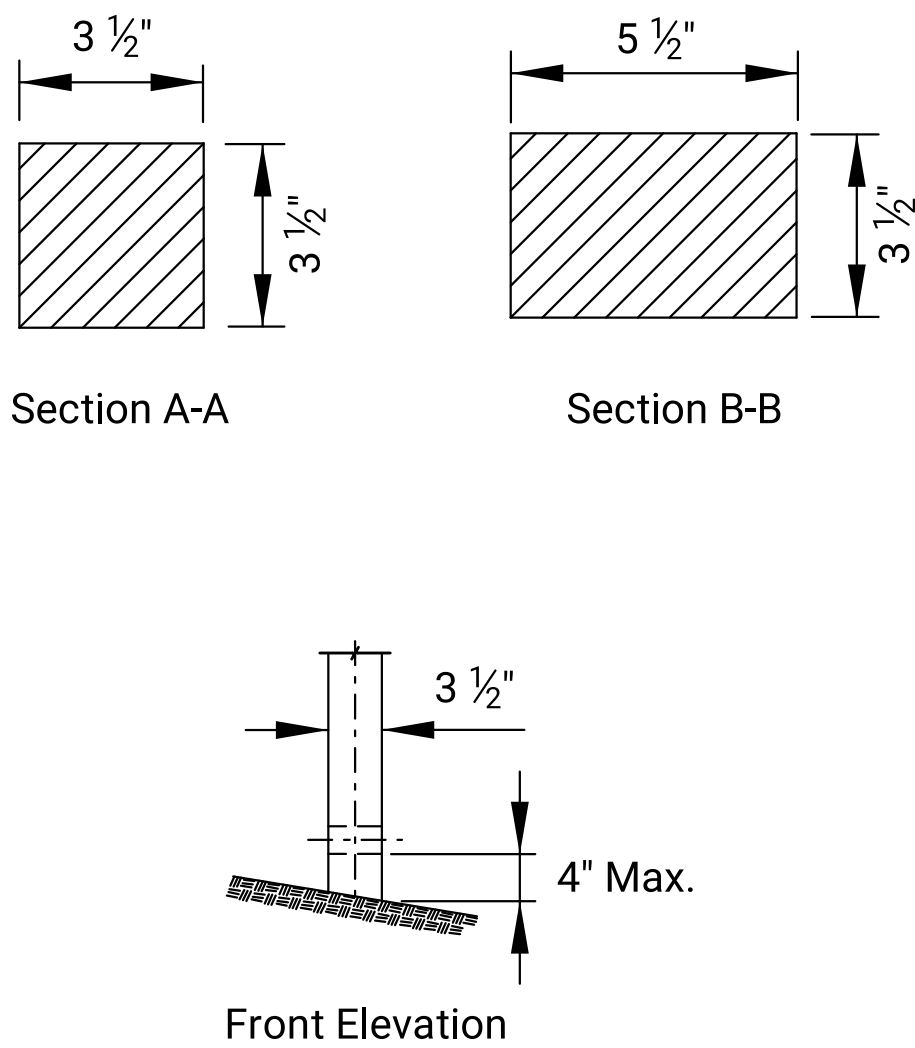
WOOD POST SETUP



Side Elevation
4" x 4" Wood Post in Soil

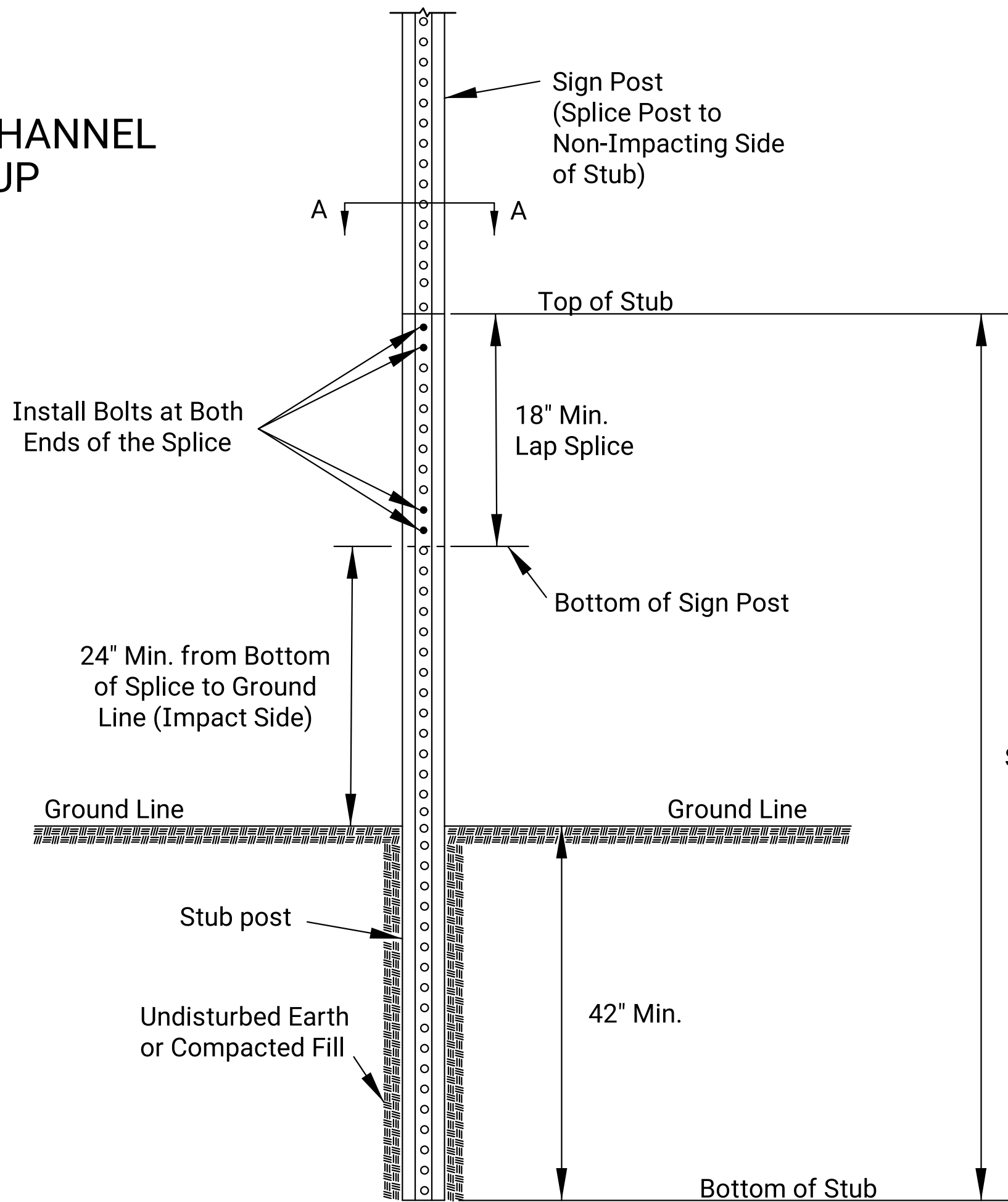


Side Elevation
4" x 6" Wood Post in Soil

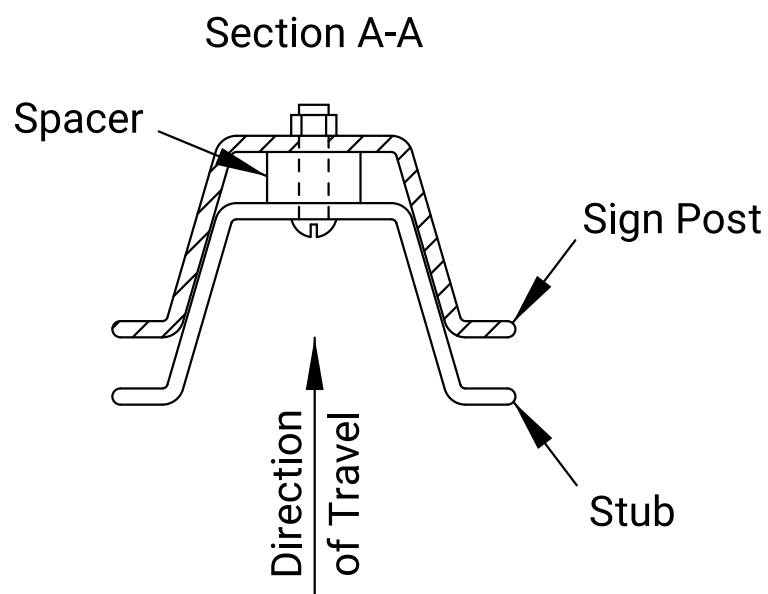


See TE710 for Additional
Details and Requirements

3 LB/F U-CHANNEL SETUP

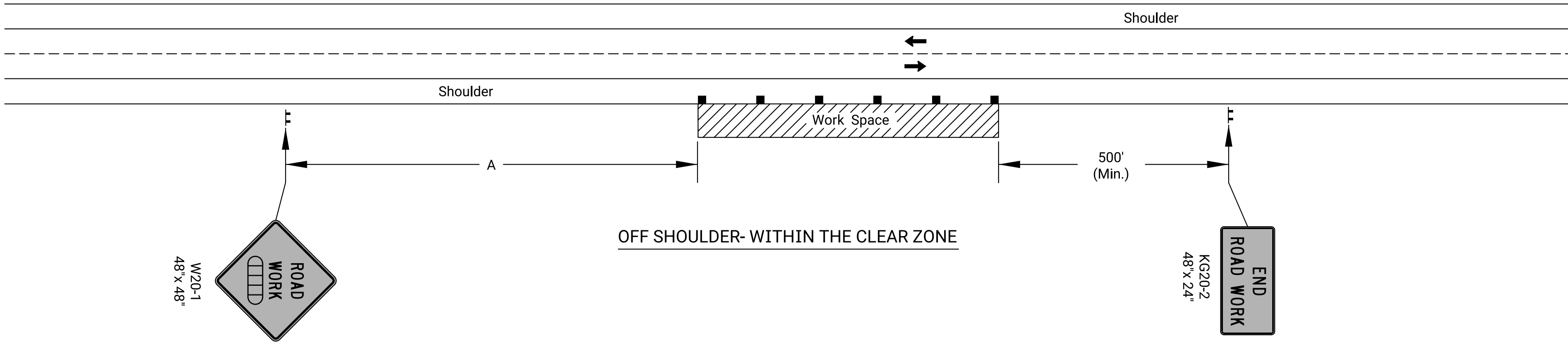


Notes:
Place two bolts at both ends of the splice through the holes nearest the ends of the splice.
Use manufacturer recommended spacers over the bolts between the spliced pieces of U-Channel.



3					
2					
1					
NO.	DATE	REVISIONS	BY	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL SIGN POSTS					
TE712					
FHWA APPROVAL		06/01/15	APP'D	Kristina Pyle	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

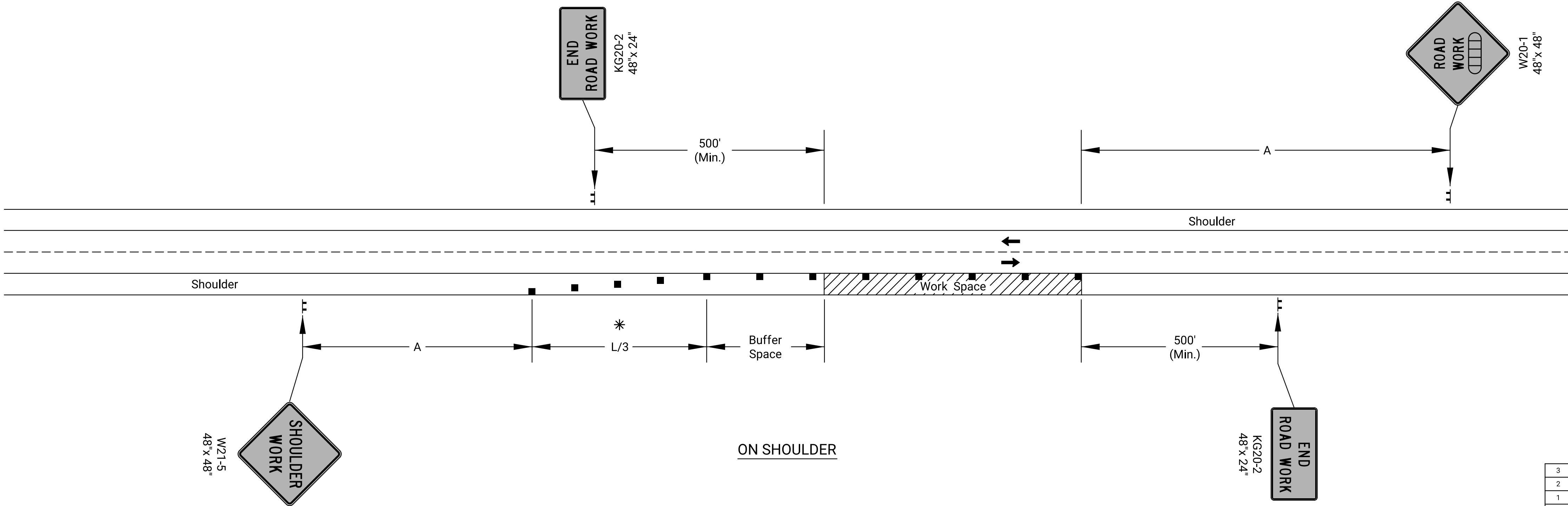
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	60	69



Notes:

No traffic control is required if the Work Space is located outside of the clear zone.

For operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with high-intensity rotating, flashing, oscillating, or strobe lights is used.

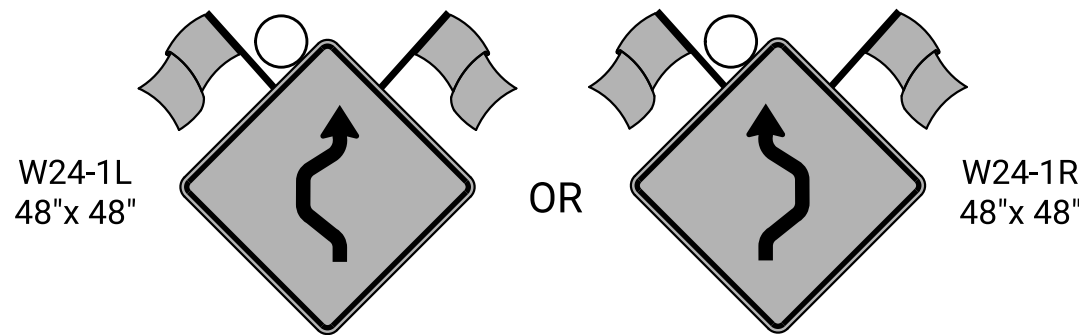


* Omit taper if paved shoulder is less than 8' wide.

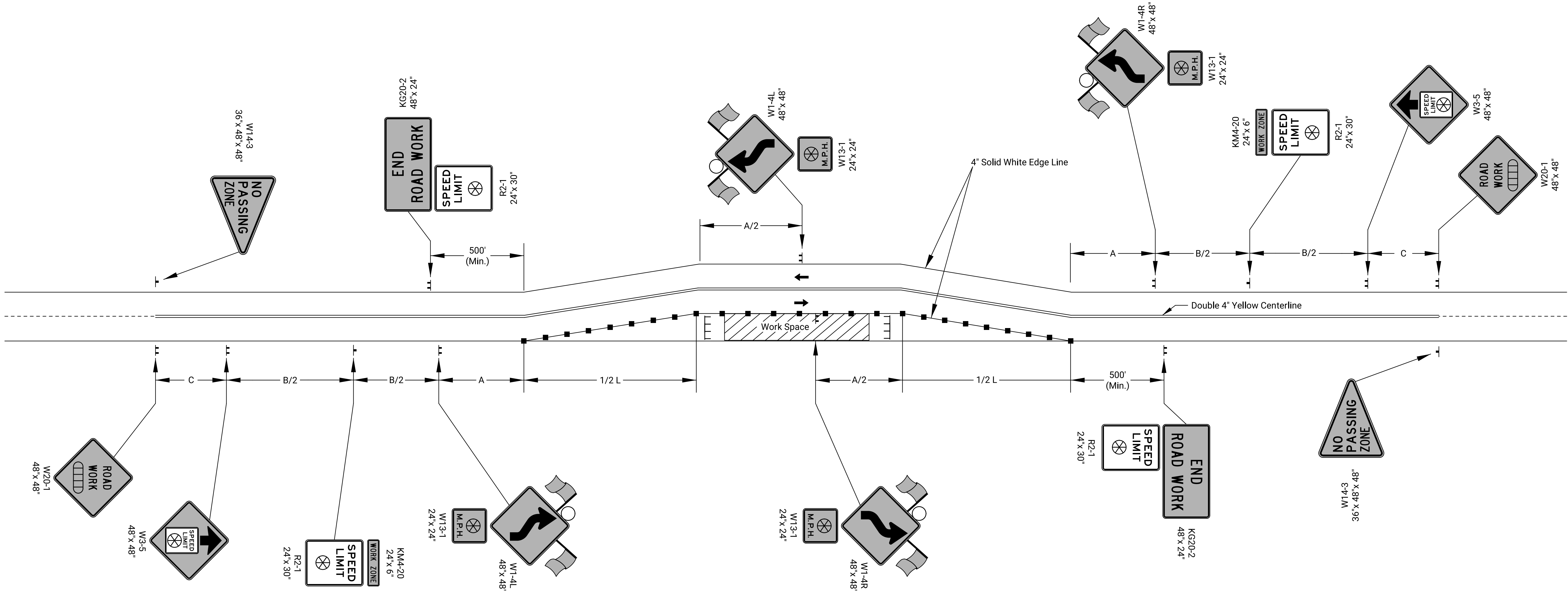
- Channelizing Device
- ▤ Ahead, 1500 ft, or 1 Mile

3					
2					
1					
NO.	DATE	REVISIONS			BY APP'D
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL SHOULDER WORK UNDIVIDED ROADWAY					
TE720					
FHWA APPROVAL		06/01/15	APP'D	Kristina Erickson	
DESIGNED	L.E.R.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	61	69



One W24-1 should be used per approach where the tangent distance between two reverse curves is less than 600 ft. If used, use in place of the first W1-4 and eliminate the second.



- Channelizing Device
- Type 3 Barricades
- Ahead, 1500 ft, or 1 Mile
- Speed to be Determined by the Engineer
- Type "A" Low Intensity Warning Light

3					
2					
1	03/13/18	W24-1 usage changed to Should	R.W.B.	E.G.K.	
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL					
LANE SHIFT					
TE724					
FHWA APPROVAL 03/13/18 APPD Eric Kocher					
DESIGNED	R.W.B.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.	DATE	DETAIL CK.	QUAN. CK.	TRACE CK.	

KDOT Graphics Certified 03-29-2018

Sh. No. XXX

Plotted : 29-MAR-2018 12:40

Drawn By : mushock

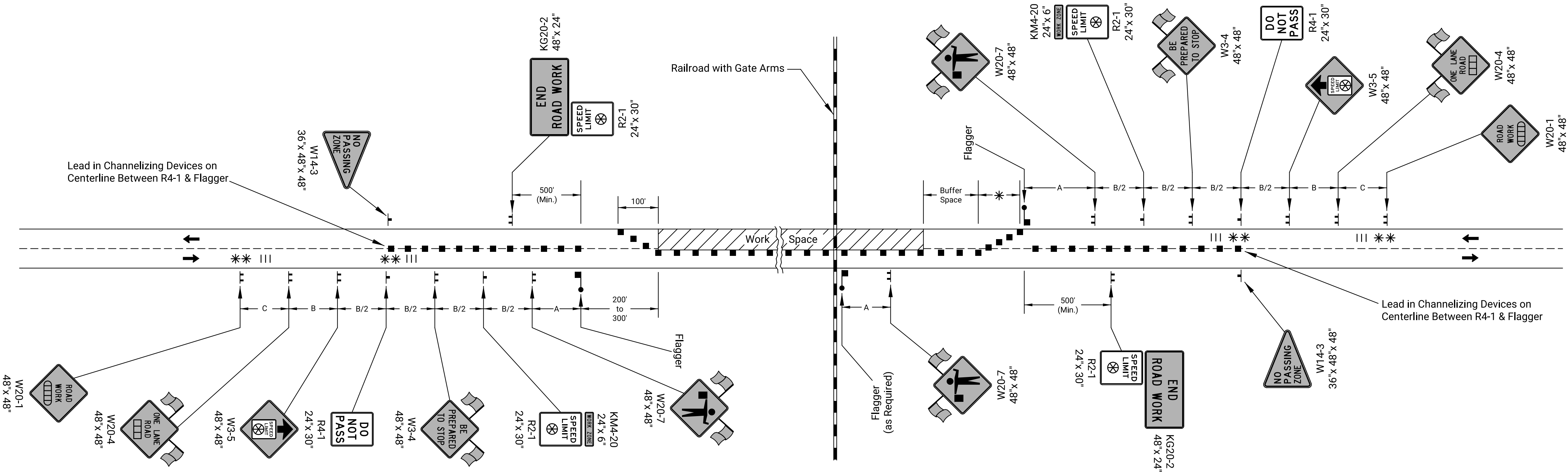
File : te724.dgn

Traffic

KDOT Graphics Certified

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	59-2 KA-5422-01	2022	62	69

FLAGGER



USE TE731 FOR FLAGGER OR PILOT CAR ON ROADWAYS WITH CONCRETE SHOULDERS GREATER THAN 8 FT.

Notes:
Trucks hauling material to the project should STOP at the Flagger. After stopping, upon approval of the Engineer, trucks may be allowed to move around the Flagger.

Place a Flagger at all highway and major collector intersections and at-grade railroad intersections with lights and gates in the work space to control traffic crossing the tracks to the left of the gate arm. The need for a Flagger at minor side road intersections shall be determined by the Engineer. Place a W20-7 (Flagger symbol) sign on each side road that is controlled by a Flagger.

Existing signs shall not be covered or removed between Flagger stations.

Temporary rumble strips may be used in lieu of lead in channelizing devices when the roadway is less than or equal to 30' including paved shoulders. When extenuating circumstances exist, the Area Engineer may elect to eliminate both the lead in channelizers and the rumble strips.

* Minimum six (6) channelizers spaced at 20' intervals.

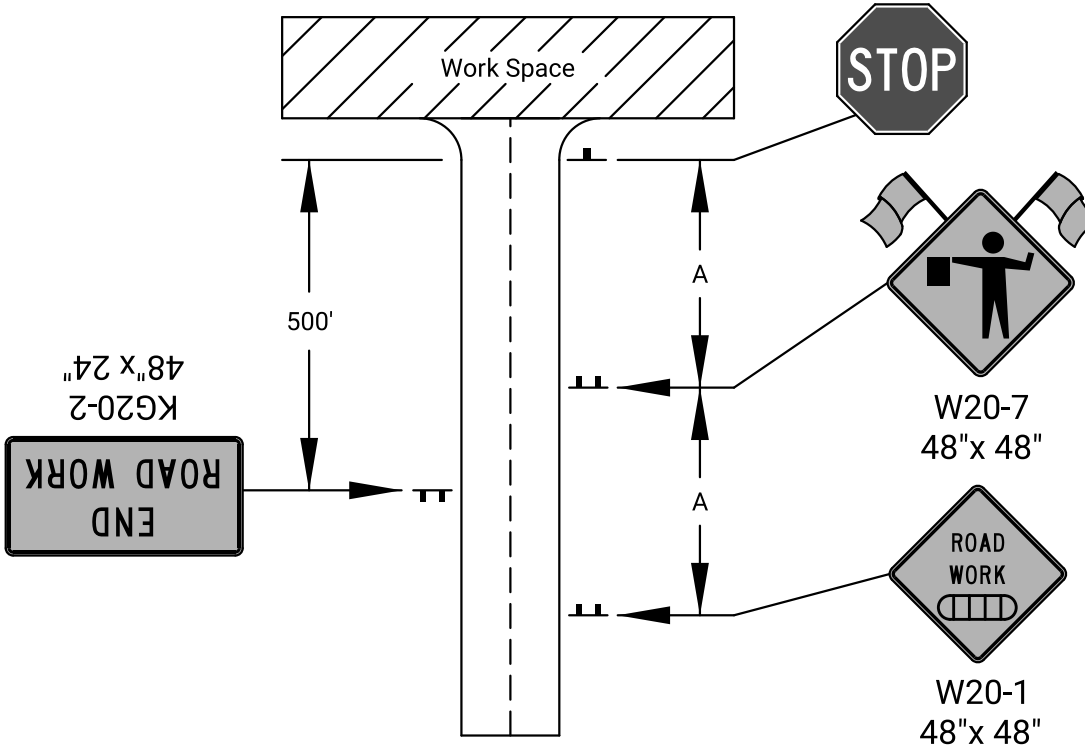
** Optional rumble strips may be placed: One set between the W20-1 and W20-4, and one set between the R4-1 and W3-4, on each approach.

△ Not required on substantial maintenance projects (1R).

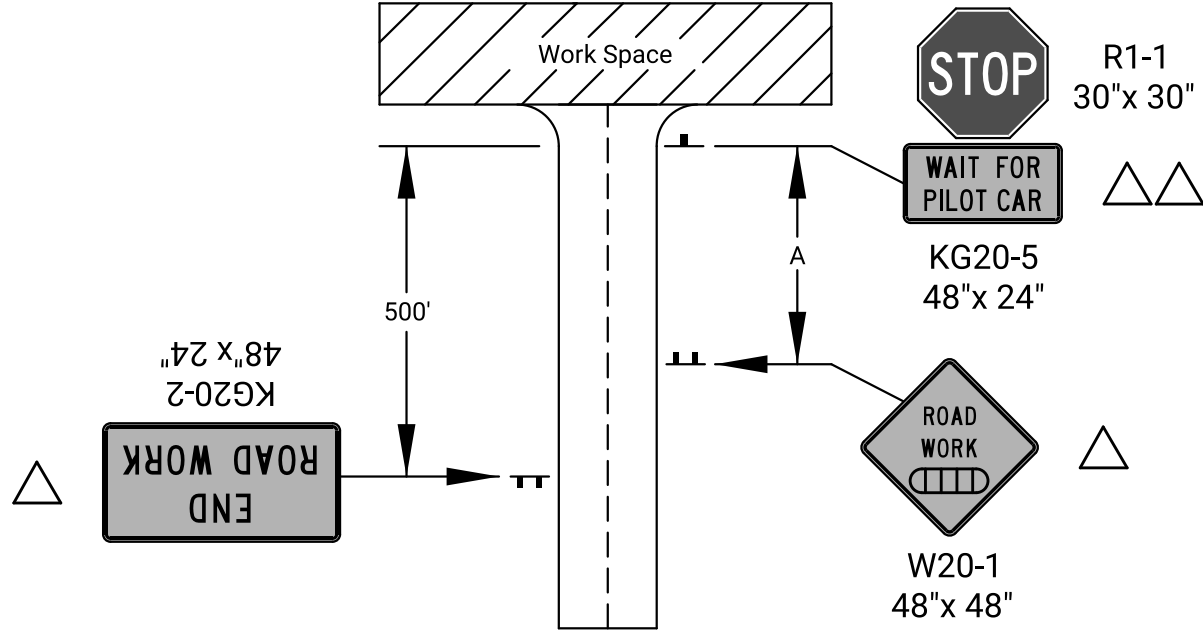
△△ The KG20-5 (WAIT FOR PILOT CAR) sign shall be mounted on an approved portable support and not attached to the existing stop sign post.

The KG20-5 sign shall be placed immediately in front of the existing stop sign, a minimum of 6" below the bottom of the stop sign. The sign should be removed or covered when there is no pilot car.

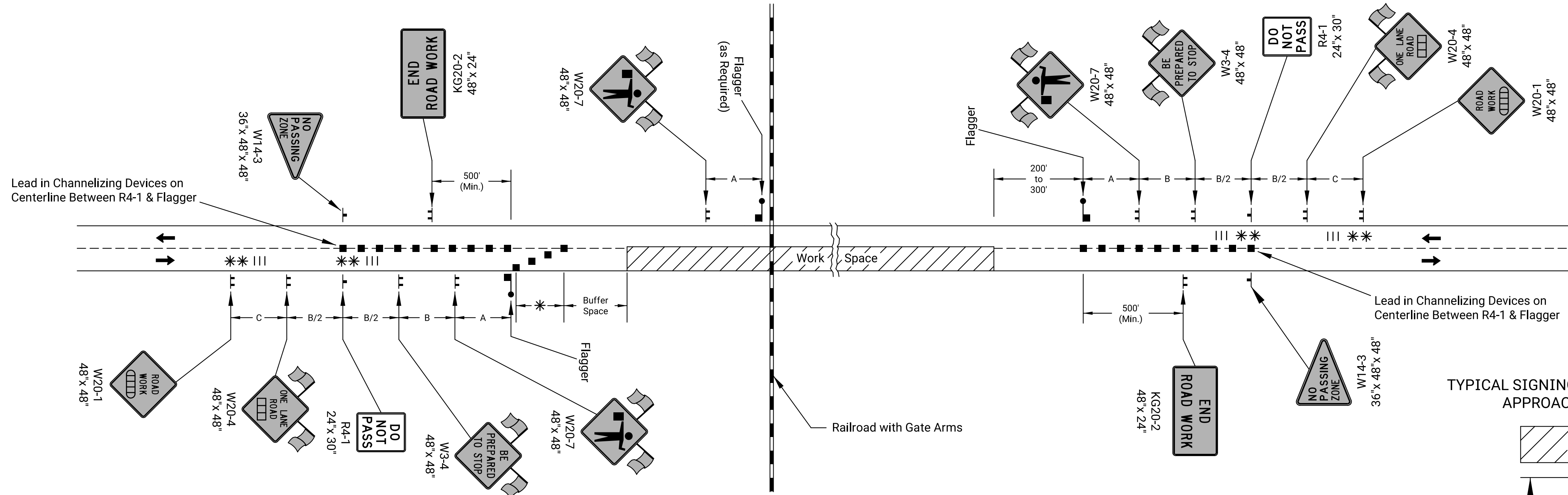
TYPICAL SIGNING FOR HIGHWAY OR MAJOR COLLECTOR APPROACH TO WORK SPACE



TYPICAL SIGNING FOR A MINOR SIDE ROAD APPROACH TO WORK SPACE

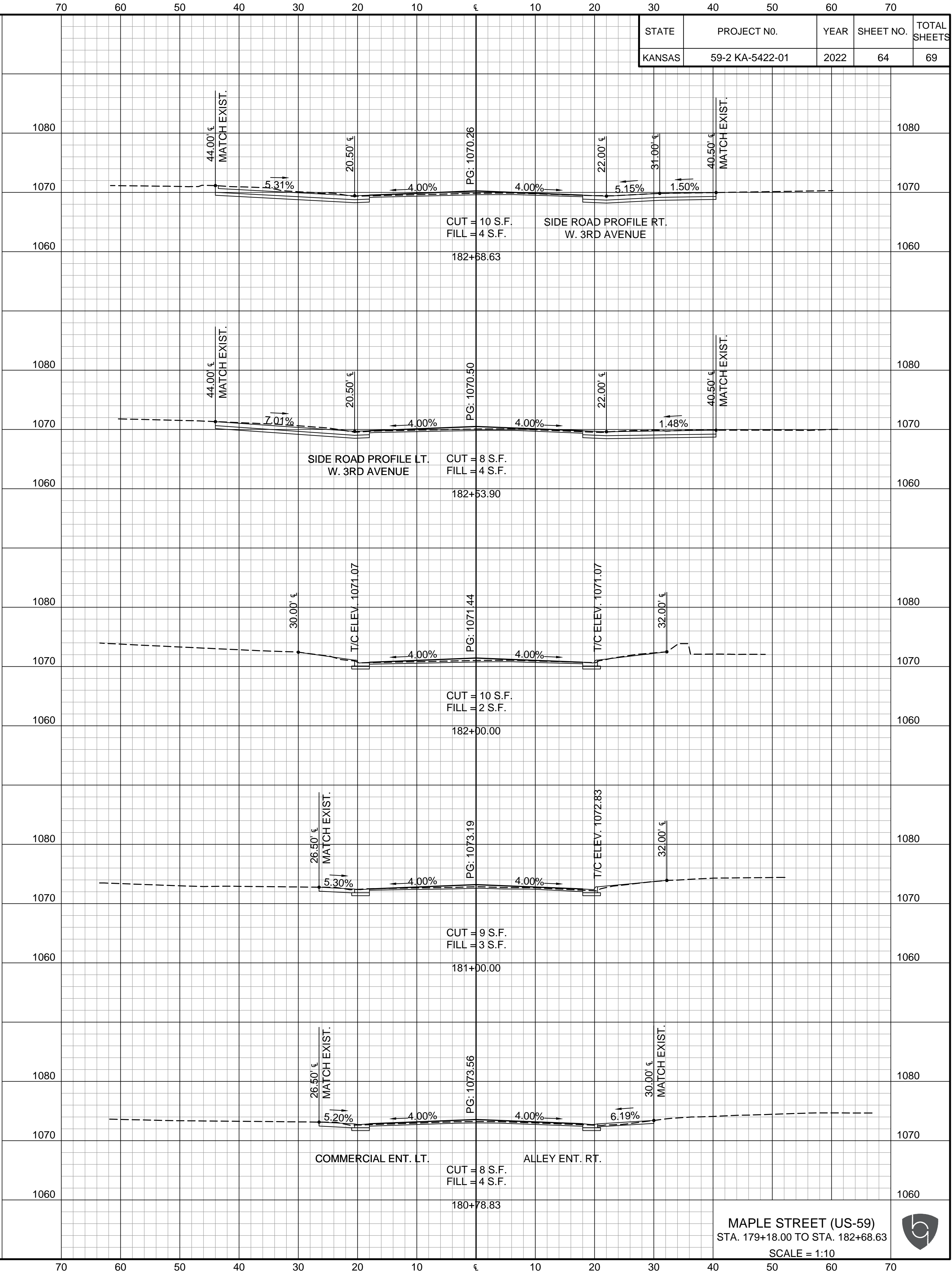
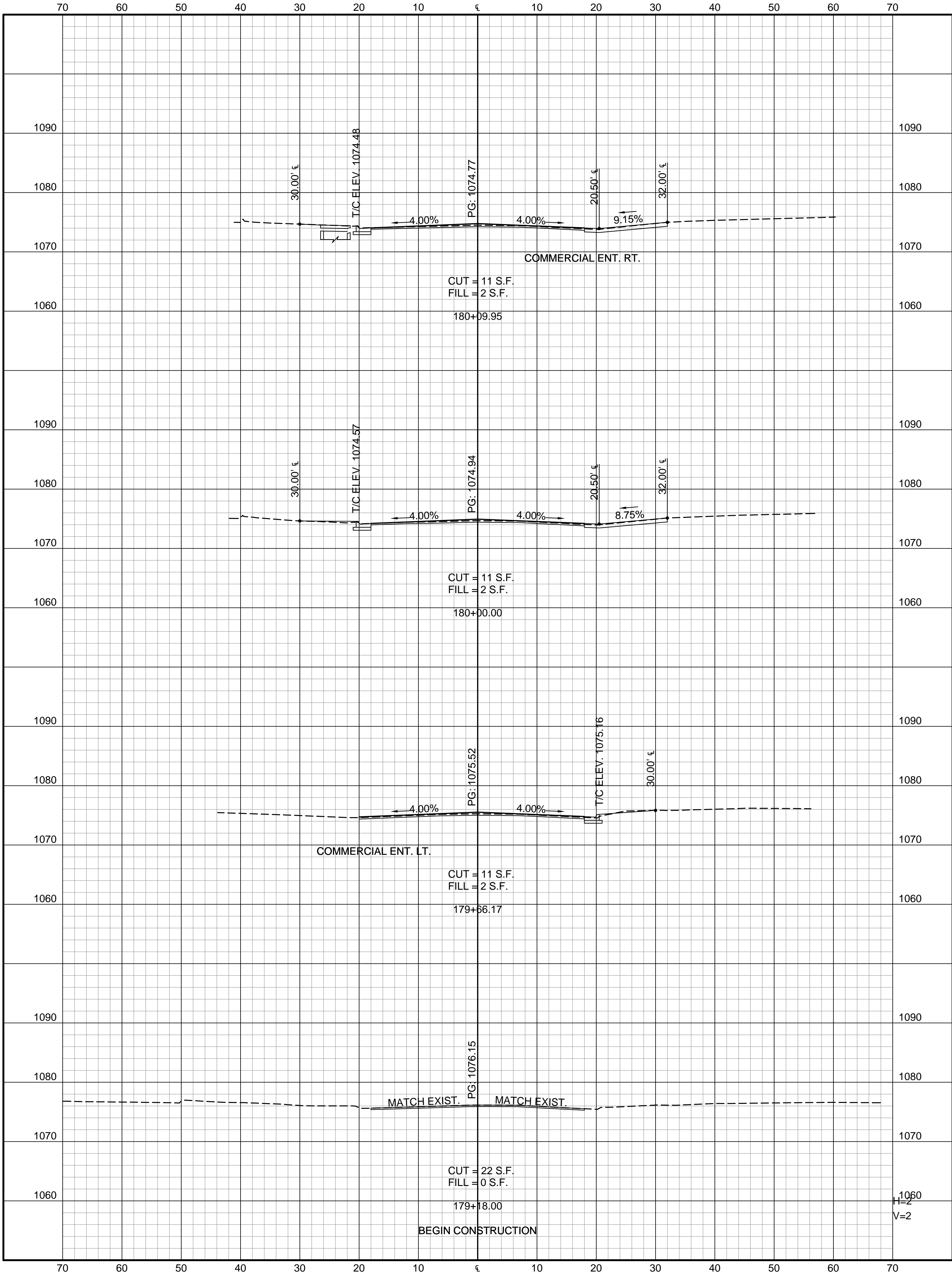


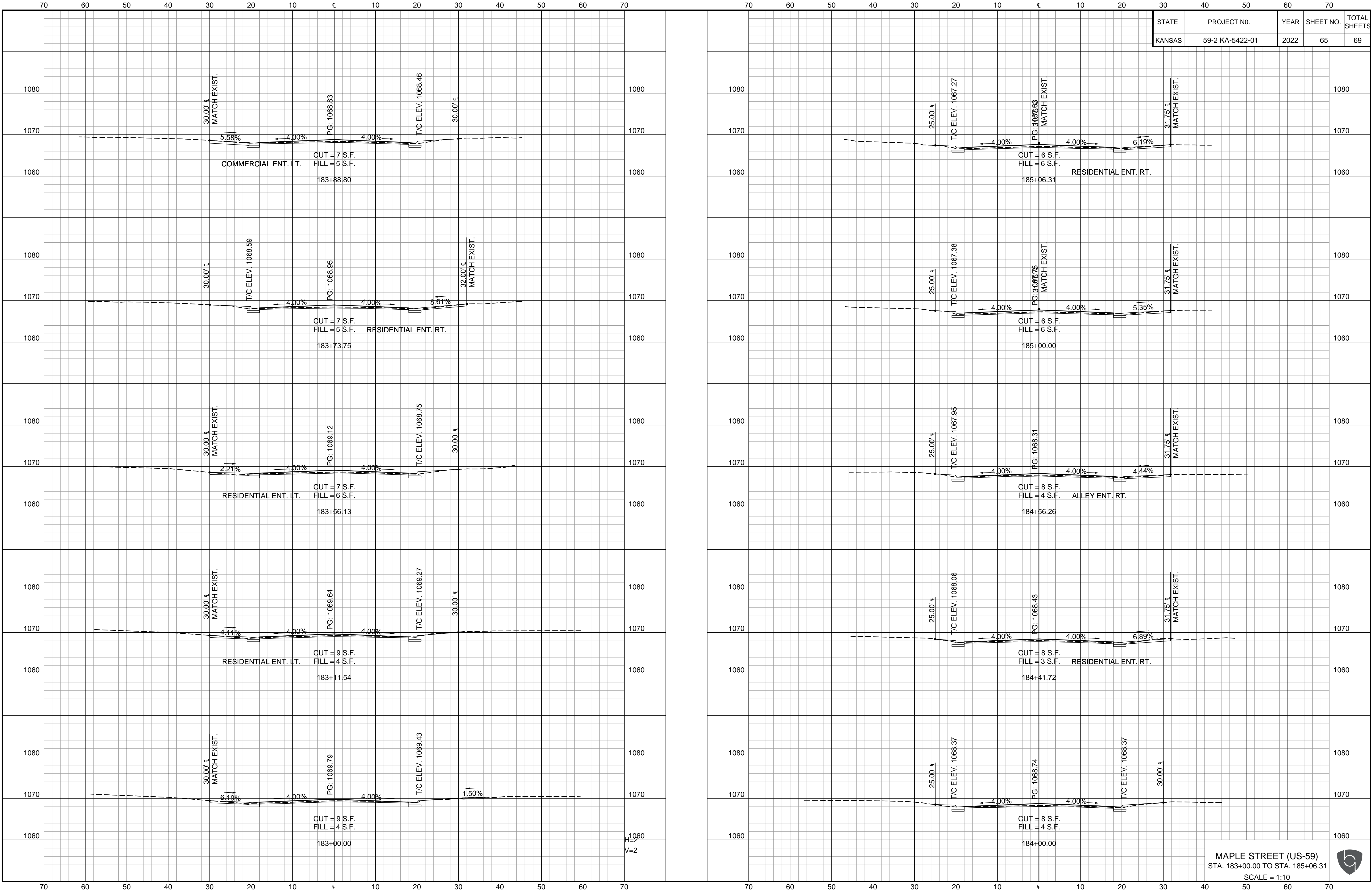
FLAGGER AND PILOT CAR

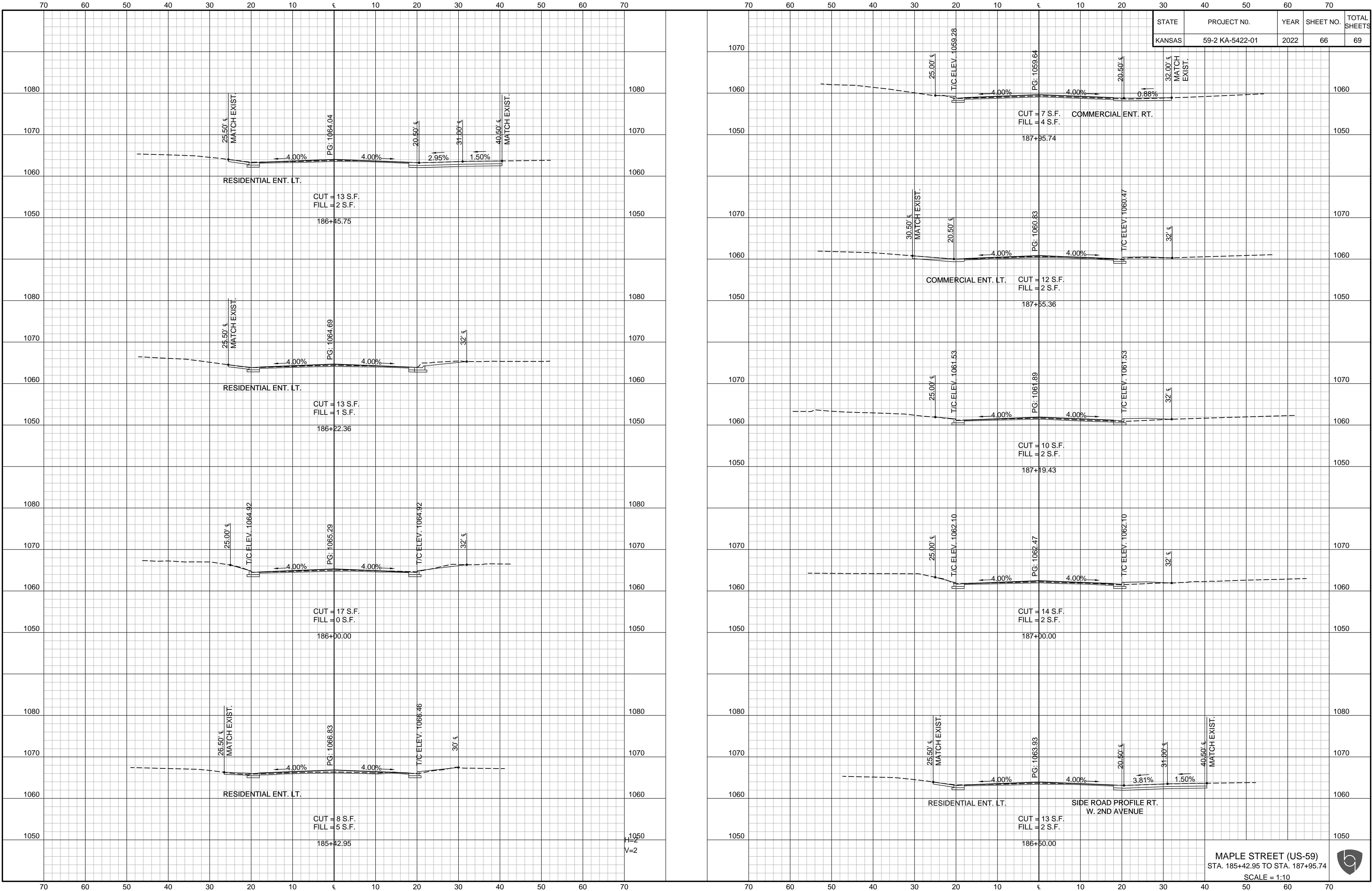


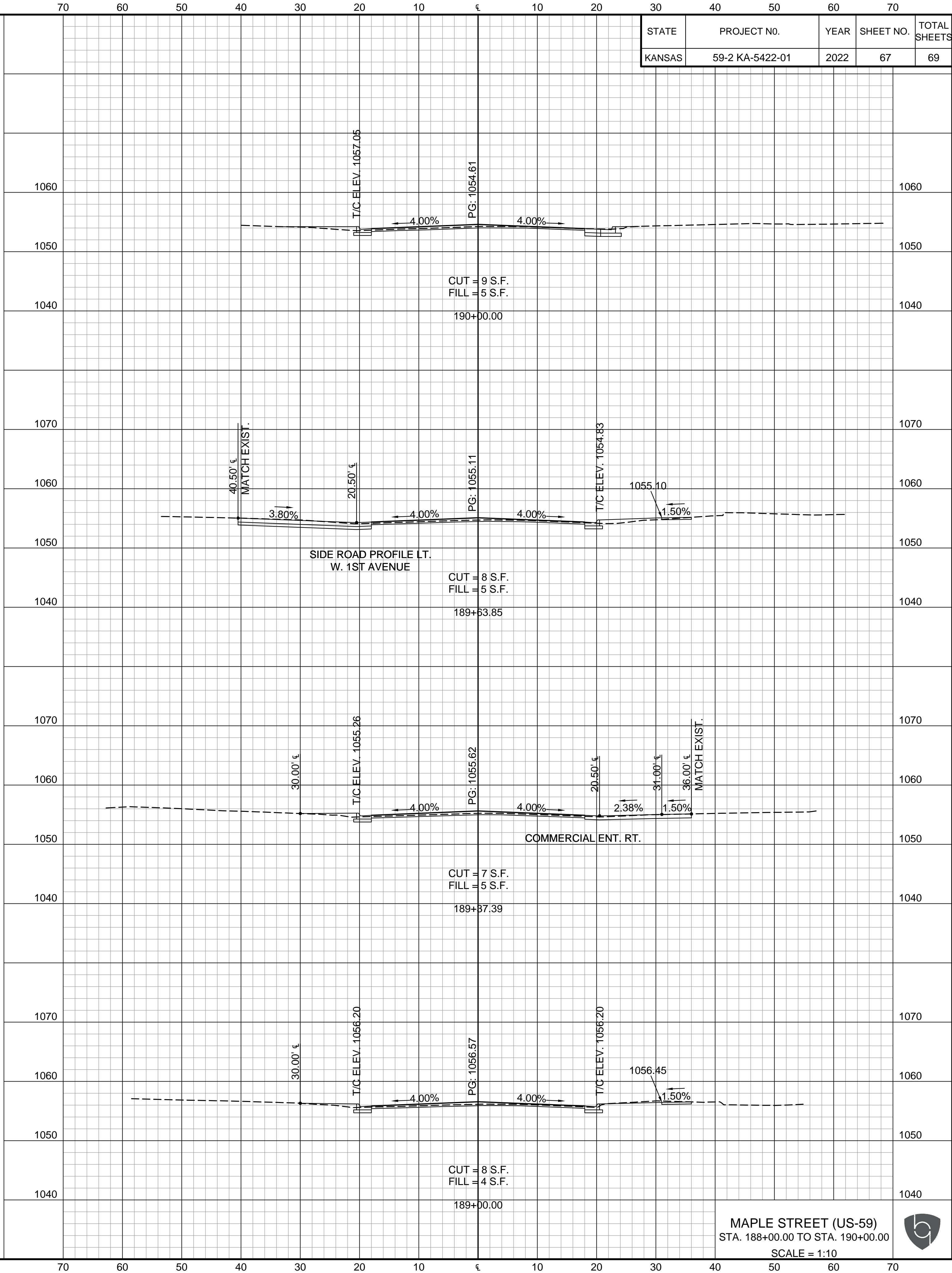
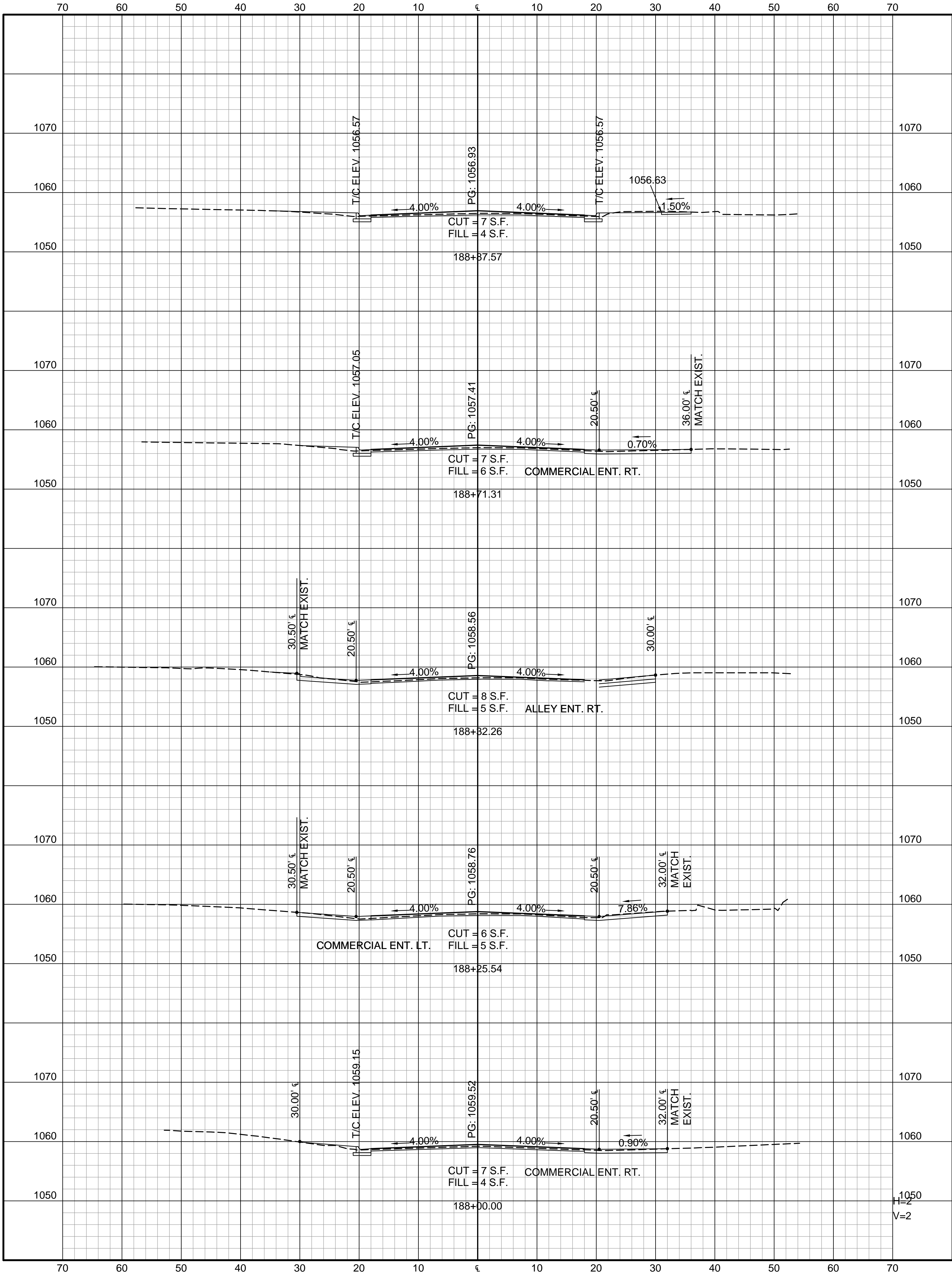
- Channelizing Device
- Ahead, 1500 ft, or 1 Mile
- Ahead, 1000 ft, 1500 ft, or 1/2 Mile
- Speed to be Determined by the Engineer
- Type "A" Low Intensity Warning Light
- Temporary Portable Rumble Strips

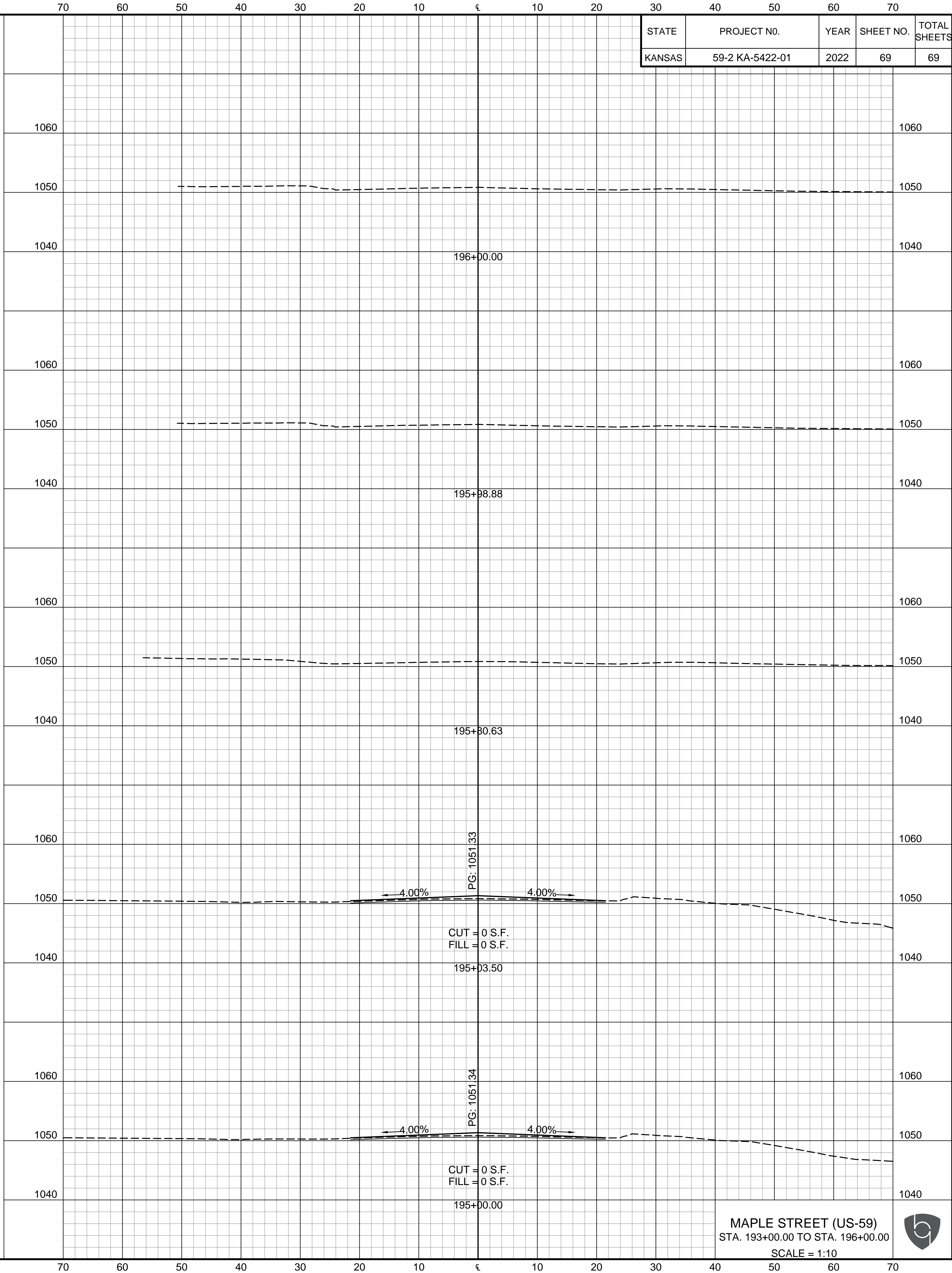
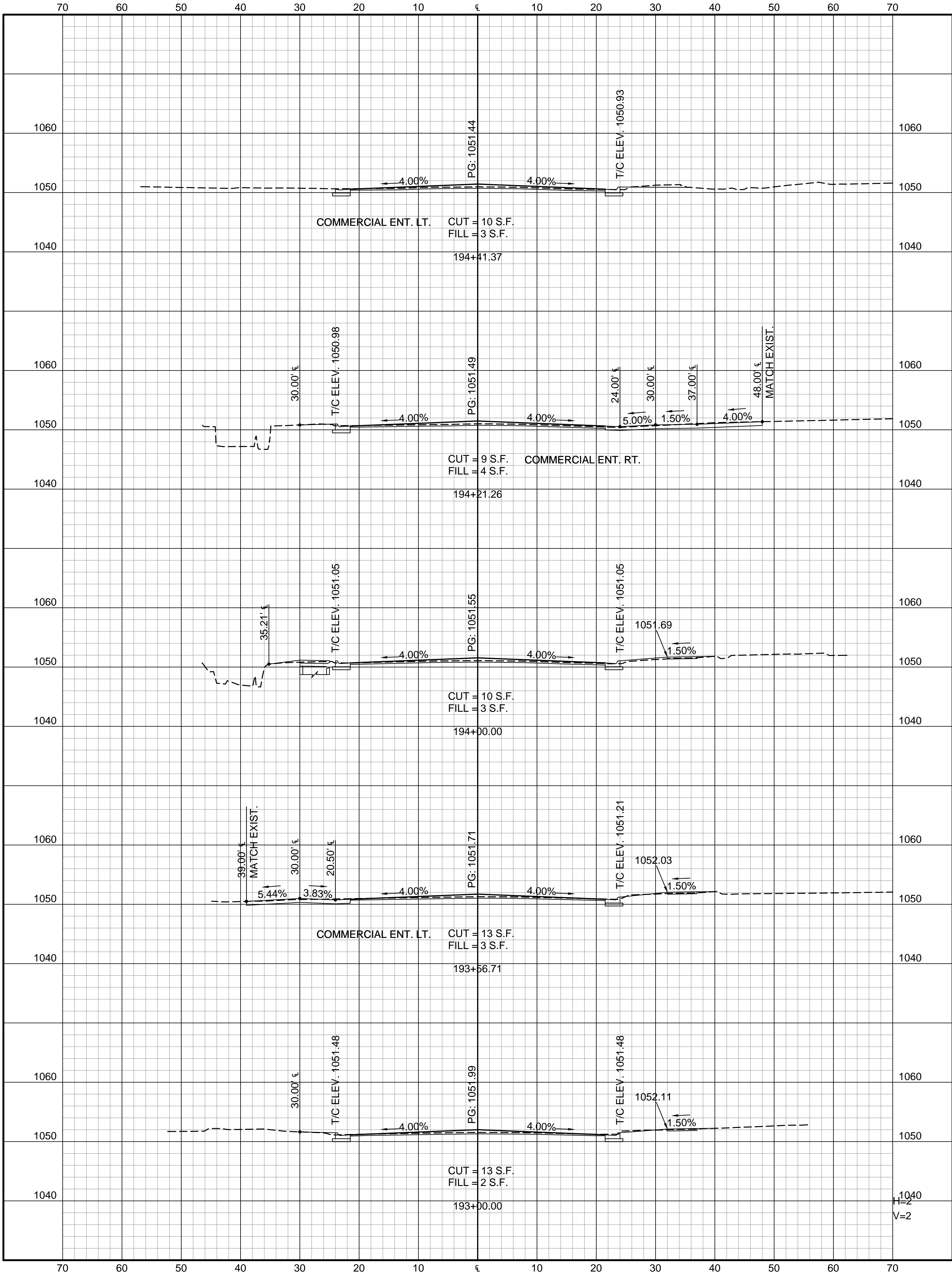
3					
2					
1					
NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
TRAFFIC CONTROL FLAGGER OR PILOT CAR					
TE730					
FHWA APPROVAL		06/01/15	APPD	Kristina Erickson	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.











CCLIP Pavement Replacement Project (N. Maple Street (US-59) from 4th Avenue to Rosebud Ave)
Engineer's Opinion of Probable Construction Costs - OFFICE CHECK

City of Garnett, Kansas

KDOT Project #: 59-2 KA-5422-01

BG Consultants, Inc. Project #19-1514L

June 3, 2022

No.	Description	Qty.	Units	Unit Price	Total Price
1.	Contractor Construction Staking	1	L.S.	\$ 10,000.00	\$ 10,000.00
2.	Field Office and Laboratory (Type A)	1	L.S.	\$ 6,500.00	\$ 6,500.00
3.	Foundation Stabilization (Set Price)	1	C.Y.	\$ 40.00	\$ 40.00
4.	Mobilization	1	L.S.	\$ 80,000.00	\$ 80,000.00
5.	Mobilization (DBE)	1	L.S.	\$ 5,000.00	\$ 5,000.00
6.	Removal of Existing Structures	1	L.S.	\$ 40,000.00	\$ 40,000.00
7.	Clearing & Grubbing	1	L.S.	\$ 10,000.00	\$ 10,000.00
8.	Common Excavation (Urb)	225	C.Y.	\$ 75.00	\$ 16,875.00
9.	Rock Excavation	460	C.Y.	\$ 45.00	\$ 20,700.00
10.	Compaction of Earthwork (Type A)(MR-5-5)	50	C.Y.	\$ 12.00	\$ 600.00
11.	Water (Grading)(Set Price)	1	M. Gal.	\$ 35.00	\$ 35.00
12.	Inlet (Curb)(Setback)	16	Each	\$ 6,500.00	\$ 104,000.00
13.	Curb and Gutter, Combined (AE)	1,455	L.F.	\$ 40.00	\$ 58,200.00
14.	Storm Sewer (15")(RCP)	241	L.F.	\$ 60.00	\$ 14,460.00
15.	Storm Sewer (18")(RCP)	220	L.F.	\$ 70.00	\$ 15,400.00
16.	Storm Sewer (24")(RCP)	280	L.F.	\$ 90.00	\$ 25,200.00
17.	Storm Sewer (24")	189	L.F.	\$ 100.00	\$ 18,900.00
18.	Storm Sewer (30")(RCP)	652	L.F.	\$ 100.00	\$ 65,200.00
19.	Storm Sewer (7.0 sq. ft.)	152	L.F.	\$ 125.00	\$ 19,000.00
20.	Storm Sewer (10.0 sq. ft.)	368	L.F.	\$ 150.00	\$ 55,200.00
21.	Flowable Fill	47	C.Y.	\$ 125.00	\$ 5,875.00
22.	Sidewalk Construction (4")(AE)	156	S.Y.	\$ 65.00	\$ 10,140.00
23.	Sidewalk Ramp	61	S.Y.	\$ 300.00	\$ 18,300.00
24.	Concrete Pavement (6" Uniform)(AE)	245	S.Y.	\$ 75.00	\$ 18,375.00
25.	Concrete Pavement (8" Uniform)(AE)	1,091	S.Y.	\$ 95.00	\$ 103,645.00
26.	Concrete Pavement (10" Uniform)(AE)	24	S.Y.	\$ 250.00	\$ 6,000.00
27.	PCCP Patching (Full Depth)(9")(Unsound)	124	S.Y.	\$ 90.00	\$ 11,160.00
28.	Aggregate Base (AB-3)(6")	1,437	S.Y.	\$ 12.00	\$ 17,244.00
29.	Water (Aggregate Base)(Set Price)	1	M. Gal.	\$ 35.00	\$ 35.00
30.	Adjustment of Manhole	6	Each	\$ 1,500.00	\$ 9,000.00
31.	Milling	6,831	S.Y.	\$ 2.50	\$ 17,077.50
32.	HMA-Commercial Grade (Class A)	1,325	Tons	\$ 125.00	\$ 165,625.00
33.	HMA-Commercial Grade (Class A)(Patching)	150	Tons	\$ 175.00	\$ 26,250.00
34.	Erosion Control	1	L.S.	\$ 20,000.00	\$ 20,000.00
35.	Permanent Seeding	1	L.S.	\$ 8,500.00	\$ 8,500.00
36.	Pavement Marking (Multi-Component)(White)(6")	149	L.F.	\$ 1.00	\$ 149.00
37.	Pavement Marking (Multi-Component)(Yellow)(4")	1,896	L.F.	\$ 1.00	\$ 1,896.00
38.	Pavement Marking (Intersection Grade)(White)(24")	64	L.F.	\$ 20.00	\$ 1,280.00
39.	Pavement Marking Symbol (Intersection Grade)(White)(Left Arrow)	13	Each	\$ 275.00	\$ 3,575.00
40.	Sign Post (1 3/4" PSST)	72	L.F.	\$ 20.00	\$ 1,440.00
41.	Sign Post Footing (1 3/4" PSST)	6	Each	\$ 60.00	\$ 360.00
42.	Sign (Remove and Reset)	1	L.S.	\$ 2,000.00	\$ 2,000.00
43.	Traffic Control	1	L.S.	\$ 50,000.00	\$ 50,000.00
				Subtotal =	\$ 1,063,236.50
				+ 10% Contingency =	\$ 106,324.00
				TOTAL =	\$ 1,169,560.50

Gate Schedule for Libertfest

Susan Wettstein <susan@garnettks.net>

Sat, Jun 4, 2022 at 12:18 PM

To: Greg Gwin <ggwin@garnettks.net>, Greg Gwin <greg@gencomanufacturing.com>, Jody Cole <jcole@garnettks.net>, Jason Sheahan <jsheahan@garnettks.net>

Cc: Travis Wilson <twilson@garnettks.net>, Kris Hix <kris@garnettks.net>

Dear City Commission,

The annual Libertyfest Fireworks Celebration will take place on Saturday, July 2nd. Tentative rain date would be July 9th. We are working on getting volunteers to take donations at the entrance to the North Lake Park. Any city employees that volunteer to help do so without pay. If you would like to help for an hour please let me know. In the past we have enjoyed having the Commission help with this and hope you have too.

We have committed to the purchase of \$6,000 of fireworks, which also includes the certified shooters, their insurance, etc. This event is funded through donations, not tax dollars.

Here is the tentative schedule for gate donation takers for Saturday, July 2nd – Libertyfest:

5:00 - 6:00 p.m. -

6:00 - 7:00 p.m. -

7:00 - 8:00 p.m. -

8:00 – 9:00 p.m. -

*We can adjust if someone else wants to help! Would like to have 3-4 people each shift. Appreciate ALL the volunteer help!

If you have any questions please contact Travis or myself.

Link on City's website: <https://www.simplygarnett.com/community-fireworks.html>

Facebook event: <https://fb.me/e/55Jecjy2S>

Thank you,

Susan

Susan Wettstein

Director of Community Development & Tourism

E-mail: susan@garnettks.net



131 West 5th Avenue, P O Box H

Garnett, KS 66032

Telephone: 785.448.5496, Option 7



Travis Wilson <twilson@garnettks.net>

Fwd: Replacement Recloser

Troy Hart <troy@garnettks.net>

Wed, Jun 8, 2022 at 1:02 PM

To: Travis Wilson <twilson@garnettks.net>

----- Forwarded message -----

From: **Josh Schmaderer** <jshmaderer@kmea.com>

Date: Tue, May 10, 2022 at 9:24 AM

Subject: Replacement Recloser

To: Troy Hart <troy@garnettks.net>

Cc: Mike Schmaderer <mschmaderer@kmea.com>, Sharon Schmaderer <sschmaderer@kmea.com>

Troy,

Our opinion of probable cost which is based on our experience with prior projects would be \$58,000 to acquire and install a new recloser on your incoming 34.5kV feed. The recloser is \$33,000 with a 26 week lead time currently. Our estimate at labor is \$25,000. However, the project will be invoiced on a time and material basis using our standard rate schedule.

Let me know if you have any question or need anything else.

Thanks,

Joshua Schmaderer