

PROPOSAL SUBMITTED BY:

Contractor's Name

Street

P.O. Box

City

State

Zip Code



**CITY OF AURORA
KANE COUNTY
STATE OF ILLINOIS**

**PROPOSAL AND SPECIFICATIONS FOR
2024 R.O.W. Maintenance Program**

Bid 24-066

AURORA, ILLINOIS
May 2024

**PREPARED BY
CITY OF AURORA
Engineering Division
77 S. Broadway Avenue
AURORA, ILLINOIS 60507**

Bid Number 24-066

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**City of Aurora
Bid 24-066
NOTICE TO BIDDERS**

Time and Place of Opening of Bids

Sealed bids for the improvement described below must be received at the office of the City Clerk, 44 E Downer Place, First Floor, Aurora, IL 60505 until **11:00 AM, Wednesday, June 12, 2024**. Proposals will be opened and read publicly at the above address on **Wednesday, June 12, 2024** at **11:00 AM** for those wishing to attend in person. The bid opening will also be live streamed, access details to be provided to all plan holders.

Description of Work

Name: 2024 R.O.W. Maintenance Program

Location: Various maintenance throughout the City of Aurora

Proposed Improvement: Approximate quantities of work to include Sidewalk Removal and Replacement (36,000 SQ FT), Curb and Gutter Removal and Replacement (750 FT), Patching (25,000 SQ YD), HMA Bike Path Surface Course (500 TONS), Thermoplastic Pavement Marking (110,000 FT) with intermittent grooving, Modified Urethane Pavement Marking (6,500 FT), Crack Routing and Filling (41,000 FT), and other related items.

Bidder Instructions

1. Plans, specifications, and proposal forms may be obtained online at: <https://www.aurora-il.org/bids.aspx>
2. Prequalification of Bidders as contained in Check Sheet LRS6 in the "Supplemental Specifications and Recurring Special Provisions" is required on this project. All proposals must be accompanied by a proposal guaranty as outlined in the Proposal form.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in Standard Provisions for Bidding Requirements and Conditions for Contract Proposals contained in the "Supplemental Specifications and Recurring Special Provisions".
4. Any bidder who owes the City money may be disqualified at the City's discretion.
5. The City encourages minority business firms to submit proposals and encourages the successful contract bidder to utilize minority businesses as subcontractors for supplies, equipment, services, and construction.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The City of Aurora has a local preference ordinance that would apply to this contract.

By Order of
City Clerk
City of Aurora

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*Provision
Number* *Title*

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CITY OF AURORA SPECIAL PROVISIONS

The following Special Provisions supplement the "General Specifications," the Illinois Department of Transportation's "Standard Specifications For Road and Bridge Construction," (herein after called the "Standard Specifications", the City of Aurora's "Standard Specifications for Improvements," the "Supplemental Specifications and Recurring Special Provisions," the "Standard Specifications for Water And Sewer Main Construction in Illinois, Sixth Edition," the "Standard Specifications for Traffic Control Items," and the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" in effect on the date of invitation for proposals. These special provisions apply to and govern the proposed improvement designated as the *2024 R.O.W. Maintenance Program (Bid 24-066)* and in case of conflict with any part or parts of said specifications; these Special Provisions shall take precedence and shall govern.

DESCRIPTION OF PROJECT:

This project shall consist of making improvements to the existing streets to include city wide projects for Sidewalk Removal and Replacement, Patching, 3", Crack Sealing, Bike Path Maintenance, Thermoplastic & Modified Urethane Pavement Markings, and various other maintenance throughout the City.

All questions should be received by the Purchasing Division, in writing at PurchasingDL@aurora.il.us, by 4 pm Friday, June 7, 2024. Questions will be answered via addendum and posted to the City's website at <https://www.aurora-il.org/bids.aspx> by 4:00 pm, Monday, June 10, 2024 if required. All questions received after Friday will not be addressed.

The Engineer reserves the right to alter the plans, extend or shorten the improvement, add such work as may be necessary, and increase or decrease the quantities of work to be performed all in accordance with Section 104 of the Standard Specifications. The difference in quantities regardless of the percent increase or decrease shall be deemed to pose no significant change in the character of the work for this contract. All quantities are estimated, and payment will be made for actual measured work completed. Contractor shall note that projects are city wide and will be small quantities at each location as shown on the lists included. Lists of work will be finalized at the pre-construction meeting. It is possible that due to budget constraints the amount of work will be reduced and the purchase order / contract will be awarded at an amount lower than the low bid.

SP.1 - Special Conditions

The bidder shall inspect the streets, the site of the proposed work and the local conditions that affect the detailed requirements of construction. The Contractor shall be responsible for determining the possible effects of the varying site conditions and no additional compensation will be allowed for extra time due to the progress of work.

SP.2 - Mobilization

This contract contains no provisions for Mobilization. Therefore, Section 671 of the Standard Specifications is deleted.

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SP.3 - Public Convenience

This contract includes work on several streets throughout the city and as such the Contractor shall schedule work to minimize the inconvenience to the public. In addition to the requirements of Article 107.09, the Contractor shall be aware of the commuter hours and main direction of high traffic flow on the city's Arterial and Major Collector streets. Certain lanes as identified by the Resident Engineer shall not be closed before 8:30 AM and shall be opened by 3:30 PM. The Contractor will not be entitled to extra compensation to adjust their work schedule according to the requirements as stated herein and as directed by the Resident Engineer.

SP.4 - Disposal of Debris and Excavated Material & CCDD

The Contractor shall be responsible for removal and disposal of all waste material, asphalt, grindings, concrete, stone, dirt or debris generated in the course of the work. The Contractor shall load the removed pieces of curb and gutter, sidewalk, street pavements, etc. directly onto trucks, haul it away and dispose of it. The temporary storing of excavated materials on the parkway and street and re-handling them later for disposal or backfill will not be allowed.

In addition to the requirements of Section 107.01 of the Standard Specifications, the Contractor shall be responsible for the proper removal and disposal of excavated materials from the project site. The Contractor will meet all the requirements set forth by the IEPA in regard to Clean Construction and Demolition Debris which include providing certification from a licensed Professional Engineer, geotechnical testing, dumping fees and proper documentation. This work will not be paid for separately but shall be considered included in the total contract cost.

SP.5 - NPDES Permit

A separate Notice of Intent (NOI) will not be required for this construction project. The City of Aurora has filed a Notice of Intent for General Permit for Discharges from a Small Municipal Separate Storm Sewer Systems (MS4s) under the National Pollutant Discharge Elimination System Phase II. This NOI covers all City of Aurora sponsored construction projects. A copy of the City of Aurora NOI is maintained on file at the Engineering Department of the City of Aurora.

SP.6 – Project Superintendent

The Contractor shall employ an experienced Superintendent for the duration of this project. The Superintendent shall be familiar with all aspects of the project, have authority to order work to be completed by the Contractor's crews and subcontractors working on the project and be responsible for coordinating and scheduling all activities of work. The Project Superintendent shall be on the jobsite at all times when crews and the subcontractor's crews are working.

SP.7 – Scheduled Work Activity

The Contractor shall provide any Scheduled Work Activity to the Resident Engineer by 3:00 PM each day prior to any construction. The information shall provide the list of streets where work will occur and include start time, type of work and all scheduled material deliveries. Work done without prior notification to the resident engineer shall be considered unauthorized and will not be included for payment.

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SP.8 – Police Department Notification

The Contractor shall contact the City of Aurora, Police Department non-emergency number prior to closing streets to through traffic, installing temporary no parking signage and any work that may impede the flow of traffic.

SP.9 – Public Notice and Work Times

The Contractor shall deliver a notice, original form supplied by the City, to each address that will be affected by work to be performed on each street. Notices shall be distributed 7 to 14 days in advance of the start of work. The allowed work hours are Monday thru Friday 7 AM to 5 PM for regular work days that are not a City holiday. The Contractor may request work hours and days outside normal working periods. The Contractor shall be responsible for keeping vehicles off the streets as needed for the project. The Contractor shall install and maintain temporary signs in the parkway 24 hours prior to starting work on each street. The signs shall be 18" x 24", white plastic with red lettering on both sides stating **NO PARKING, 7:00 AM - 5:00 PM MON – FRI THANK YOU "contractor name"**. **Signs shall be spaced on both sides (min. 3 signs each side, each block) as needed to notify motorists.** Immediately following each stage of work on each street, the Contractor shall remove the signs and reinstall them as needed.

SP.10 – Work Adjacent to Schools, High Volume Traffic Routes (Shopping Centers, Commuter Routes) and Special Events (Concerts/Parades)

In addition to delivering the "Notices", the Contractor shall personally contact schools, shopping centers and other heavy traffic locations and events that will experience traffic delays as a result of working on this contract. In no case, shall equipment be operated near school zones when children are present. The Contractor shall also make adjustments to work schedules to accommodate events that would involve large numbers of vehicles and people on a particular street. No compensation will be paid for any inconvenience, delay, or loss experienced by the Contractor because of adjustments to their normal schedule.

SP.11 – Driveway Closures

At locations where the curb in front of a driveway is scheduled to be removed, the Contractor shall contact the homeowner 24 hours prior to removing the curb or drive approach. The Contractor shall provide and deliver a notice on their letterhead informing the residents the exact day their driveway will be closed and allow them time to move any vehicles onto the street. Driveways shall be closed for no more than 10 calendar days including the minimum of 5 days concrete cure time. The Contractor shall be responsible for maintaining the barricades to prevent traffic from using the driveways during this period.

SP.12 - Water for Construction Purposes

City water for construction purposes will be available to the Contractor at his cost according to the rates in effect at the time of usage. The Contractor shall secure a city water meter from the Water Treatment Plant at Route 25 and Indian Trail Road by leaving the required deposit. The use of City water without a City issued meter is illegal. The Contractor will be fined according to ordinance, which will be deducted from moneys due, for each unauthorized use of city water regardless of the amount of water used or the reason for the unauthorized use.

SP.13 - Deadline

The Contractor shall complete the work on all streets included in the scope of work detailed in this contract by **October 4, 2024**. See SP.14 for information on subsequent additional mobilization(s).

SP.14 - Sequence of Work & Progress

The following work and maximum number of working days allowed is to insure a continuous and steady progress of work items and to limit the hazards to the public during construction:

Work	Working Days Allowed
Replacement of Curb & Gutter after Curb Removal	5 Days
Replacement of Sidewalk after Sidewalk Removal	5 Days
Landscape Restoration after concrete has cured properly	7 Days

* - Includes time for Manhole Adjustments to be done with High Early Concrete

The rate of progress shall be as nearly uniform as practicable and shall be such that all work under this Contract will be completed by the deadline(s) and time allowed. It may be necessary for the Contractor to work longer hours, use additional crews, and to do several items of work simultaneously in order to complete the work within the required time limit.

If any hot-mix asphalt driveways are disturbed during concrete operations, they will need to be patched with CLASS D PATCHES, TYPE I, 2 INCH before landscape restoration. The 2" patch pay item will also be used to disturb any pavement adjacent to curb repairs.

Should the Contractor fail to complete the work within the deadline, the Engineer shall give notice in writing to the Contractor of such delinquency. If the Contractor does not take immediate measures, as in the opinion of the Engineer, to increase the work productivity, the City may terminate the contract in accordance with Article 108.10.

The Contractor should also anticipate that a minimum of **one additional mobilization** will be required near the conclusion of the construction season (likely October) to perform additional quantities of sidewalk replacement (and related items) included in this bid resulting from addition resident complaints and issues which arise subsequent to the date of contract award. These additional services will be paid at the unit rates provided in this bid, and an estimated quantity of 8,000 SF has been added as additional contingency for both removal and replacement of sidewalk. The City will provide the contract a list of locations, and the Contractor will have 4 additional weeks to complete the work from when the list is received. The cost for adjacent landscaping restoration for these areas should be included in the lump sum cost for LANDSCAPE RESTORATION.

SP.15 - Saw Cutting

Wherever new work will meet existing conditions other than lawn, regardless of whether the new or existing is asphalt or concrete, the existing adjacent sidewalk, pavement or curb shall be neatly saw cut. The saw cut shall be in a neat straight line sufficiently deep so that it renders a smooth vertical face to match. All saw cutting, shall be included in cost to the adjacent new item of work.

SP.16 - Temporary Stone

The Contractor shall provide access to driveways. Curb and Driveway Replacement shall be scheduled so as not to obstruct access for more than 10 calendar days (including the curing time for P. C. Concrete). If the Contractor has not contacted a resident whose curb or drive approach is marked for repair, granular material shall be placed through the drive approach immediately after removing the curb or drive approach. The Contractor shall ensure full time access for a business by working on one driveway at a time or completing work on a driveway one-half at a time. Temporary stone (granular material) will not be paid for separately but shall be considered included to the total contract cost.

SP.17 - Payments

The City will process up to one partial payment per month based on the work completed to date. Payments in progress under this contract shall be subject to a maximum 10% retainage by the City. The Contractor shall provide Partial Waiver of Lien and Contractor Affidavit for partial payments. All payments and processes shall follow the requirements of the City of Aurora's Purchasing Division.

The Engineer shall process the final payment one year after the completion of all the work. A maximum of 5% of the total value of completed work may be held during this period. The Contractor shall make repairs to any work that is found to be defective as determined by the Engineer.

Prior to the Final Payment, the Contractor shall provide Final Waivers of Lien for his company, all subcontractors, suppliers and materials. Final payment will be made after all material certification has been received and accepted.

SP.18 - Street Sweeping and Preparation

The Contractor shall be responsible for sweeping and cleaning streets of any debris and material that has accumulated as a result of the construction activity. A mechanical sweeper, mechanically driven air and handwork with shovel and broom shall be utilized to provide a clean street for the motoring public. Within 24 hours of placing prime coat and the laying of HMA, the Contractor shall sweep the pavement and remove standing water, earth, weeds, leaves, dirt, construction debris and all loose material.

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

SP.19 - Clean Up

Following the completion of work on each street, the Contractor shall clean the area of all construction debris, signs, all barricades, survey markings and other items that do not belong on the site. All temporary signs and pavement tape shall be removed. Clean-up will not be paid for separately but shall be considered incidental to the contract.

SP.20 - Adjustments

This work shall consist of the adjustment of existing catch basins, manholes, inlets, valve vaults or valve boxes, to meet the proposed elevations as required in accordance with Section 602 & 604 of the Standard Specifications and as stated herein.

- Catch Basins and Inlets shall be adjusted or reconstructed during the curb removal and replacement operation. Frames & Grates shall be adjusted to meet the proposed curb and gutter elevation to provide positive drainage.
- Manholes, Valve Vaults, and Valve Boxes shall be adjusted or reconstructed following the placement of the Leveling Binder. Castings shall be set accurately to the proposed surface course elevation by using a string line in the direction of traffic flow at a distance of 10' each side of the casting. Sudden bumps or dips in the ride quality at castings following the placement of surface course will not be accepted.
- The Contractor shall neatly excavate the area by saw cutting the pavement, removing the surrounding pavement, and removing any loose material, loose bricks and cracked rings from the structure.
- Materials used for adjustments shall be reinforced concrete rings and butyl rope. The Contractor shall request the use of bricks and mortar for repair to existing structures and unusual situations where the adjustment cannot be made with rings. Butyl rope shall be used between all concrete rings and castings.
- Frames and Grates and Frame and Lids that are worn, damaged or marked for replacement shall be removed and replaced.

Frames & Lids shall be Heavy Duty Solid Lid with **"CITY OF AURORA"** cast into the top with concealed pick hole and machined surface with a watertight rubber gasket seal. Frames & Grates shall have **"DUMP NO WASTE DRAINS TO RIVER"** cast into the curb box.

- Valve Boxes shall be adjusted by excavating the existing pavement to the depth as required to adjust the extension to meet the elevation of the proposed surface course. Approved Valve Box extension with threaded connection may be used for this work as directed by the Engineer.
- The Contractor shall fill the area excavated with Class PP Concrete ("High Early") to 1/2" below the level binder elevation.

Utility Manhole Adjustments such as AT&T and ComEd manholes shall be identified and requested by the Contractor. The Contractor shall request these adjustments in the timely manner so as not to affect the completion of the project. The Contractor assistance to facilitate the utility company work shall be considered incidental to the contract.

Raised manholes/valves shall be temporarily ramped as determined by Engineer at time of construction to facilitate the movement of vehicles through streets with multiple adjustments. The cost of ramping shall be considered included in this item. This work shall be paid for at the contract unit price each for CATCH BASINS TO BE ADJUSTED, MANHOLES TO BE ADJUSTED, VALVE BOX TO BE ADJUSTED, CATCH BASINS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL) AND MANHOLES TO BE ADJUSTED WITH NEW FRAME AND LID (SPECIAL), which shall include all labor and materials to do the work as specified herein.

SP.21 - Domestic Water Service Box to be Adjusted

This work shall consist of adjusting an existing water service box to the elevation as directed by the Engineer in accordance with Section 565 of the Standard Specifications and as stated herein.

- Domestic Water Service Box shall be adjusted by excavating the ground to the depth as required to adjust the extension or install a new extension and top as may be required to meet the new elevation of the parkway or concrete.
- Service Boxes located within P.C. Concrete shall be surrounded with a polycarbonate sleeve that extends into the subbase material. The top of the sleeve shall be flush with the box and covered with duct tape prior to placing the concrete.
- All excavations shall be backfilled with material as directed by the Engineer.

This work will be paid for at the contract unit price per each for DOMESTIC WATER SERVICE BOX TO BE ADJUSTED, which price shall be payment in full for the excavation, material, labor, and the backfilling all as directed by the Engineer and as specified herein.

SP.22 – Hot-Mix Asphalt Surface Course, Mix “D”, N50, Bike Path

This work consists of placing Hot-Mix Asphalt Surface Course in accordance with the applicable portions of Section 406 of the Standard Specifications and as stated herein.

This work shall include the placement of HMA on the existing bike paths at the locations as listed in the special provisions. The Contractor shall prepare the area by removing any vegetation that may be growing in cracks and scraping the edges of any dirt that may be encroaching the existing bike path. The Contractor shall be aware of conditions that will impact installation of the HMA including trees. Any special equipment the Contractor will need to place the material shall be included this item.

This work will be measured and paid for at the contract unit price per ton in place for HOT-MIX ASPHALT SURFACE COURSE, MIX “D”, N50, BIKE PATH which price shall include all labor, material, equipment and all preparation of pavement except that Bituminous Materials (Tack Coat) will be paid for separately.

SP.23 - Hot-Mix Asphalt Surface Removal (Special)

This work consists of removing the existing hot-mix asphalt surfaces, in accordance with Section 440 of the Standard Specifications and as specified herein.

The limits of the proposed improvements to the bike paths shall be prepared by milling to a depth of 1-1/2" at the limits as marked by the Engineer. All locations on the roadway will require signage to warn motorists of a “BUMP AHEAD.”

This work will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL) which price shall include all material, equipment, and labor to perform the work as specified herein regardless of the depth, type and location of surface removal completed.

SP.24 - Combination Concrete Curb and Gutter Removal & Replacement (Special)

This work consists of removing and disposing the existing curb and gutter at places as directed by the Engineer and the replacement with new curb and gutter to match existing or the type as shown on the plans, in accordance with the applicable portions of Sections 440 and 606 of the Standard Specifications, the Details included, and as specified herein.

- The Contractor shall limit their operation to one side of the street at a time when replacing 100% or the majority of the curb on rehab streets. The replacement of the curb and gutter, driveway replacement and landscaping must be completed and open to parking prior to starting removal on the opposite side of the street. On non-rehab streets, if the amount of curb replacement is large, and traffic and site conditions dictate, the Engineer may dictate that operations be one side of the street at a time.
- The Contractor shall saw cut full depth a perpendicular clean joint between that portion of the curb and gutter to be removed and that which is to remain in place and saw cut the pavement full depth parallel to the curb at the location as shown in the details.
- The Contractor shall use methods of removal that do not cause damage to the existing pavement and curb and gutter that is to remain. Any Culverts or items marked for removal located in the curb line shall be removed during curb removal and disposed of properly. The Contractor shall confine the removal, excavation, and forming to a narrow area behind the existing curb line in order to minimize parkway restoration. Removal equipment that damages the parkway 12" beyond the back of curb will not be allowed, except where required by the Engineer adjacent to curb ramps. Parkway grading may be required to go beyond 12" as directed by the Engineer to smooth out grades. This grading work should be done at the time of concrete removal.
- The existing curb and gutter and those portions of the pavement as shown in the details shall be removed full depth to provide for a minimum of 4" of sub-base granular material (CA-7), and the 8" gutter. The Contractor shall place and mechanically compact the subbase with a vibrating tamper. The Contractor shall correct any soft spots in the subbase or subgrade.
- Curb at curb ramps shall be completely formed with lumber of 1½" nominal thickness, oiled throughout and held securely in place with stakes.
- Steel forms may be used for mid-block curb and gutter removal and replacement. Special attention is drawn to 606.05, which states "Forms shall be held securely staked, braced and held firmly to the required line and grade, and shall be tight". The Contractor should put the forms to grade if conditions allow. The Engineer may allow forms to be placed at higher than finish grade if tree roots or a high elevation grass/sod is adjacent to the sidewalk. This can be done at the Contractor's discretion, provided that:
 - A string line is snapped for the top of curb elevation
 - Curb is poured at the proper depth and flow line is at the proper grade
 - Curb has a consistent head
 - Curb finishing is acceptable and meets specification

The Engineer may require steel curb forms to be placed at grade, per the Standard Specifications, if these above conditions are not being met.

- Pavement Restoration - After the concrete has cured a minimum of 12 hours and the forms have been removed, the area between the gutter face and the saw cut pavement shall be cleaned of any loose material, wooden stakes and dirt. The void area shall be filled with Portland Cement Concrete to within 2" of the existing pavement / edge of curb flag.
- The Engineer shall determine the elevation for curb on those streets where the entire curb will be replaced. These elevations are typically above the elevation of the existing curb. The curb shall be transitioned to meet the existing curb. No additional payment will be made for extra subbase as required to raise the curb.
- At locations where there is no existing curb & gutter, the Contractor shall excavate as required to install curb & gutter.

This work will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (SPECIAL) which price shall include all labor, material and equipment necessary to remove and replace the curb and gutter as specified herein. Saw cutting, excavation, sub-base material, correcting soft spots, rebar, expansion joints, curing compound, and pavement restoration shall be considered included in the cost of this item.

SP.25 - Class D Patches, 3" (Special)

Pavement patching shall be performed in accordance with Section 442 of the Standard Specifications, as directed by the Engineer and stated herein.

The Contractor shall prime the area as directed prior to filling the patch and adhere to the following items:

1. Excavations shall be signed and barricaded according to the traffic control details.
2. Vehicular traffic will not be directed to drive through excavations.
3. Two flag persons will be required where less than one lane in each direction is provided.
4. Overnight Excavations will not be allowed.
5. All excavations shall be filled flush to the surrounding pavement the same day.

The prepared area shall be cleaned, edges cut perpendicular and entire surface and edges shall be primed. Saw cutting as described in SP.15 is not necessarily required for patches, as long as the edges and patches meet all portions of this specification. The only exception is for patching on streets that are crack filled (see the patching quantity sheet for more information).

This work shall be paid for at the contract unit price per square yard for CLASS D PATCHES (SPECIAL), 3" which price shall be payment in full for the removal of the existing pavement, disposal, preparation of the area, priming, and placement of HMA as required to complete the patch, as directed by the Engineer regardless of the Type and as specified herein.

SP.26 - Sidewalk Removal, Portland Cement Concrete Sidewalk, 5", Detectable Warnings

This work consists of removing the existing sidewalk and placing a Portland Cement Concrete Sidewalk in accordance with Section 424 and 440 of the Standard Specifications, the details included and as directed by the Engineer.

- The Contractor shall saw cut, remove and dispose of sidewalks marked in the field for removal and prepare the subgrade to provide for the proposed sidewalk. The existing sidewalk shall be removed full depth to provide for a minimum of 2" of compacted granular material (CA-6), if required by the Engineer. The Contractor shall place and mechanically compact the subbase with a vibrating tamper. The Contractor shall correct any soft spots in the subbase or subgrade. The Engineer may not require every single location of sidewalk to have 2" of new stone. The Engineer may, at their sole discretion, allow existing stone to stay in place as long as it is solid and tamped.
- Any plaques or monuments found in existing sidewalk (such as numbered address tiles) shall be carefully preserved by the Contractor. If any such locations are found, the Contractor shall contact the Engineer. This work shall be considered included in the cost of these item (s).
- Sidewalk at curb ramps shall be completely formed with lumber of 1½" nominal thickness and held securely in place with stakes.
- Steel forms may be used for mid-block sidewalk removal and replacement. Special attention is drawn to 424.05, which states forms "shall be held securely in place by stakes or braces, with the top edges true to line and grade". The Contractor should put the forms to grade if conditions allow. The Engineer may allow forms to be placed at higher than finish grade if tree roots or a high elevation grass/sod is adjacent to the sidewalk. This can be done at the Contractor's discretion, provided that:
 - Sidewalk is poured at the proper depth and grade
 - Sidewalk has a consistent cross slope (i.e. no bird baths in the middle due to poor strike off)
 - Sidewalk finishing is acceptable and meets specThe Engineer may require steel sidewalk forms to be placed at grade, per the Standard Specifications, if these above conditions are not being met.
- All replacement sidewalks shall be a minimum of 5" thick. Sidewalk through driveways and at ramps shall be increased to 6" thick. The additional thickness will not be paid for separately but shall be considered included to these items.
- Sidewalk curb ramps shall be constructed according to the Highway Standards in the bid package, detail in the plans and as directed by the Engineer. Additional side curb may be required at locations not explicitly shown on the Highway Standards, such as on the back side of the sidewalk at the common square on perpendicular curb ramps (See Highway Standard 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS). Per Article 424.12, all side curbs are measured for payment as sidewalk. This includes any side curb required at any location for a curb ramp, even if the side curb is not explicitly called

out in a particular location on the Highway Standards. The measurement does not include the face of the side curb.

- At locations where a curb ramp will be installed and/or the grade of the curb has been changed, the Contractor shall excavate subbase and subgrade as required to properly construct the ramp and sidewalk to meet ADA/PROWAG requirements, the details in the plans and standards in the contract. The Contractor should frame curb ramp slopes at slightly less than the allowable standards to allow for construction tolerance. Sidewalk cross slope should be framed at 1.5% (vs. 2.0% maximum) slope, except in transition pieces tying into existing sidewalk. Running slope should be framed at 7.1% maximum but can go up to 8.2% with approval of the Engineer.
- Sidewalk curb ramps with detectable warning surface shall be constructed according to the Highway Standards and the details included. The Detectable Warning area shall be Red and 2' X 5' where possible; it may be necessary to use 2' x 4' tile at locations due to radius or other constraints. ADA Solutions, Inc. cast in place tiles shall be used for all detectable warning surfaces.
- If additional sidewalk removal is needed at curb ramps beyond the initial markups to make slopes work, there is no additional compensation for an additional mobilization to remove additional sidewalk. If any cases like this arise the Contractor should notify the Engineer immediately - see General Note 3 in the plans. Generally, removal limits are marked generously to allow the Contractor enough room to work and achieve slopes.
- At locations as directed by the Engineer, the Contractor shall excavate sod, topsoil and other material to install subbase granular material and a new sidewalk. Subbase thickness at these locations shall be 4".
- Earth excavation and disposal of material will not be measured for payment. Any earth excavation required to properly place, form, or otherwise construct any sidewalk, curb ramp, landing, or side curb shall be considered included in the price of these item(s).

This work will be paid for at the contract unit price per square foot for SIDEWALK REMOVAL, PORTALAND CEMENT CONCRETE SIDEWALK 5 INCH and DETECTABLE WARNINGS, which price shall include all labor and equipment necessary to remove the existing sidewalk, earth excavation, subbase material, correcting soft spots, disposal and placing sidewalk and furnishing and installing detectable warnings as specified herein.

SP.27 – Sawcut Curb

This work shall consist of saw cutting the back of existing combination concrete curb and gutter at various locations to be determined throughout the City. The intent of this pay item is to notch the curb so it can provide positive drainage for any low spots in a parkway.

The Contractor shall neatly sawcut the curb to provide a smooth surface. All debris and material shall be removed as directed by the Engineer. Any excess removal or damage to curb beyond the limits of the Engineer's markings will be fixed at the Contractor's cost.

The Contractor may be required to remove some of the parkway behind the curb sawcut so that the sawcut machinery can cut the curb. Any additional excavation needed to fit machinery shall be included in the cost of this pay item.

This work will be paid for at the contract price per foot for SAWCUT CURB which price shall include all labor, material and equipment necessary to complete the work as specified herein and as directed by the Engineer.

SP.28 - Traffic Control and Protection

Traffic control shall be in accordance with the applicable sections of the Standard Specifications, the Supplemental Specifications, the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, any special details and Highway Standards contained in the plans and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions, and Special Provisions contained herein relating to traffic control.

The Contractor shall contact the City of Aurora at least 72 hours in advance of beginning work. Prior to the start of work the Contractor shall have a sufficient number of barricades, signs, and flag persons at the jobsite for the scheduled work.

All traffic control and protection will be paid for at the contract lump-sum price for TRAFFIC CONTROL AND PROTECTION (SPECIAL). This price shall be payment in full for all labor, materials, transportation, handling, and incidental work necessary to furnish, install, maintain, and remove all traffic control devices required as stated herein and all applicable Highway Standards for Traffic Control and Protection.

SP.29 - Landscape Restoration

This work shall consist of restoration of the parkways and landscaped areas that were disturbed, damaged, or removed during construction in accordance with Sections 211, 212, 250 and 251 of the Standard Specifications and as stated herein.

- Disturbed areas shall be cleared of debris generated during the course of work. Debris shall include all stone, gravel, concrete, forms and any other material that is not topsoil material.
- Turf areas that are removed or disturbed during construction shall be restored to original condition or better. The Contractor shall cut a vertical edge along the line where the turf was removed. The excavated areas shall be filled with topsoil and topped with 6" of compacted pulverized topsoil. The area shall be leveled and shaped to provide a smooth transition to the existing ground and sloped to provide positive drainage.
- Areas shall be seeded with City of Aurora standard seed mix, fertilizer, straw and mulch applied by Method 2 – Procedure 3 to secure the straw.
- The Contractor shall monitor the restoration and remove weeds that exceed 12" tall and reapply seed & topsoil as needed.

This work will be paid for at the contract price lump sum for LANDSCAPE RESTORATION which price shall include all labor, material and equipment necessary to complete the work as specified herein, guarantee repairs and as directed by the Engineer.

SP.30 – New Sidewalk

This work consists of excavation and installation of a new 5-inch-thick Portland cement concrete sidewalk over 4 inches of compacted aggregate base (CA-6) in locations to be specified by the City in the field. Per the quantity tables, this pay item will be used for new sidewalk at the Colchester Fire Lane and also for widening sidewalk in the downtown area.

- The Contractor shall excavate a minimum of 9" (10" if sidewalk is 6") and dispose of grass, topsoil and other material to prepare the subgrade. All Earth Excavation and Disposal completed for this work will not be paid for separately but shall be considered included in this item.
- At locations where a curb ramp will be installed and/or the grade of the curb has been changed, the Contractor shall excavate subbase and subgrade as required to properly construct the ramp and sidewalk.
- Sidewalk shall be completely formed with lumber of 1½" nominal thickness and held in place with stakes.
- All sidewalk shall be a minimum of 5" thick. Sidewalk through driveways and at ramps shall be increased to 6" thick. The additional thickness will not be paid for separately but shall be considered incidental to NEW SIDEWALK

This work will be paid for at the contract unit price per square foot for **NEW SIDEWALK**, which price shall include all labor and equipment necessary to excavate, place aggregate material, disposal and placing PCC sidewalk as described herein.

State of Illinois
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
EMPLOYMENT PRACTICES

In addition to all other labor requirements set forth in this proposal and in the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

I. SELECTION OF LABOR

The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

II. EQUAL EMPLOYMENT OPPORTUNITY

During the performance of this contract, the Contractor agrees as follows:

- (1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such under-utilization.
- (2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service.
- (4) That it will send to each labor organization or representative of other workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the City of Aurora and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- (5) That it will submit reports as required by the Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the

Department or the City of Aurora, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

(6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the City of Aurora and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

(7) That it will include verbatim or by reference the provisions of this clause in every subcontract so that such provisions will be binding upon every such Subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its Subcontractors; and further it will promptly notify the City of Aurora and the Illinois Department of Human Rights in the event any Subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any Subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

State of Illinois
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
WAGES OF EMPLOYEES ON PUBLIC WORKS

Effective: January 1, 1999

Revised: January 1, 2015

1. **Prevailing Wages.** All wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended, except where a prevailing wage violates a federal law, order, or ruling, the rate conforming to the federal law, order, or ruling shall govern. The Illinois Department of Labor publishes the prevailing wage rates on its website. If the Illinois Department of Labor revises the prevailing wage rates, the revised prevailing wage rates on the Illinois Department of Labor's website shall apply to this contract and the Contractor will not be allowed additional compensation on account of said revisions. The Contractor shall review the wage rates applicable to the work of the contract at regular intervals in order to ensure the timely payment of current wage rates. The Contractor agrees that no additional notice is required. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto.
2. **Payroll Records.** The Contractor and each subcontractor shall make and keep, for a period of not less than five years from the date of the last payment on a contract or subcontract, records of all laborers, mechanics, and other workers employed by them on the project; the records shall include information required by 820 ILCS 130/5 for each worker. Upon seven business days' notice, the Contractor and each subcontractor shall make available for inspection and copying at a location within this State during reasonable hours, the payroll records to the public body in charge of the project, its officers and agents, the Director of Labor and his deputies and agents, and to federal, State, or local law enforcement agencies and prosecutors.
3. **Submission of Payroll Records.** The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month with the public body in charge of the project, except that the full social security number and home address shall not be included on weekly transmittals. Instead the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's social security number). The certified payroll shall consist of a complete copy of the payroll records, except starting and ending times of work each day may be omitted.

The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor or an officer, employee, or agent of the Contractor or subcontractor which avers that: (i) he or she has examined the certified payroll records required to be submitted by the Act and such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required; and (iii) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor.

4. **Employee Interviews.** The Contractor and each subcontractor shall permit his/her employees to be interviewed on the job, during working hours, by compliance investigators of the Department or the Department of Labor.

CITY OF AURORA GENERAL SPECIFICATIONS
SECTION 1 - DEFINITION OF TERMS

1.1 ADVERTISEMENT

The word Advertisement shall mean and refer to the official notice as published in the Aurora Beacon News, a daily newspaper published in the City of Aurora, Illinois, inviting bids for the construction of this improvement.

1.2 A.S.T.M.

Wherever the letters A.S.T.M. are herein used, they shall be understood to mean the American Society of Testing Materials.

1.3 ATTORNEY

Wherever the word Attorney is used in these specifications or in the contract, it shall be understood to mean the Corporation Counsel of the City or designee.

1.4 BIDDER

Wherever the word Bidder is used, it shall be understood to mean the individual, firm, or corporation formally submitting a proposal for the work contemplated, or any portion thereof, acting directly or through an authorized representative.

1.5 BOARD

Wherever the word Board or a pronoun in the place of it occurs in these specifications, it shall be interpreted to mean the Board of Local Improvements of the City of Aurora, Illinois, and any of its authorized representatives provided, however, that such persons shall be understood to represent said Board to the extent of the special duties delegated to such representatives.

1.6 CITY CLERK

Wherever the term City Clerk is used herein, it shall be understood to mean the City Clerk of the City of Aurora, Illinois.

1.7 CITY COUNCIL OR COUNCIL

Wherever the term City Council, or Council, appears in these specifications it shall be taken to mean the City Council of the City of Aurora, Illinois.

1.8 CONTRACT

The term Contract shall be understood to mean the agreement covering the performance of the work covered by these general specifications, including the advertisement for bids, instructions to bidders, bid proposal, performance bond, these general specifications, supplemental specifications, special provisions, general and detailed plans for the work, standard specifications referred to in the special provisions, all supplemental agreements entered into and all general provisions pertaining to the work or materials thereof, all of which are collectively referred to as the "Contract Documents".

1.9 CONTRACTOR

Wherever the word Contractor occurs in these specifications, it shall be interpreted to mean the person or persons, firm, or corporation who submits a proposal and thereafter enters into the contract governed by these specifications as party or parties of the second part, and the agents, employees, workmen, heirs, executors, administrators, successors, or assignees thereof.

1.10 ENGINEER

Wherever the word Engineer is used in these specifications, it shall be interpreted to mean the City Engineer or his designee charged with directing and having charge of a portion of the project limited by the particular duties entrusted to him.

1.11 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

The MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, latest edition, as adopted by the Illinois Department of Transportation.

1.12 PAYMENT BOND

The term Payment Bond shall be understood to mean the bond executed by the Contractor and his surety guaranteeing the payment of all sums of money due for any labor, materials, apparatus, fixtures, or machinery furnished to such principal for the purpose of performing the contract work.

1.13 PERFORMANCE BOND

The term Performance Bond shall be understood to mean the bond, executed by the Contractor and his surety, guaranteeing complete execution of the contract.

1.14 PLANS

Wherever the word plans is used in these specifications, it shall be understood to mean all drawings, sketches, and detailed plans or reproductions thereof pertaining to the construction involved.

1.15 PROPOSAL

Wherever the word Proposal is used, it shall be taken to mean the written proposal of the bidder on the form furnished for the work contemplated.

1.16 PROPOSAL GUARANTY

The term Proposal Guaranty shall be understood to mean the security designated in the Advertisement for Bids or Notice to Contractors to be furnished by the bidder as a guaranty of good faith to enter into a contract for the work contemplated

1.17 SPECIFICATIONS

Wherever the word Specifications is used it shall be understood to include all directions and requirements contained herein or referred to hereby, together with all special provisions and written agreements made or to be made pertaining to the work involved. All articles referred to in these general specifications when not qualified otherwise than by numbers, shall be understood to be articles from these general specifications.

1.18 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

The STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, latest edition, prepared by the Illinois Department of Transportation and adopted by said Department.

1.19 STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION

The STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION, latest edition, as adopted by the Illinois Society of Professional Engineers.

1.20 STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS

The STANDARD TRAFFIC SIGNAL SPECIFICATIONS, latest edition, as adopted by the Illinois Department of Transportation.

1.21 STATE

Wherever the word State is used herein, it shall mean the State of Illinois.

1.22 SURETY

The word Surety shall be understood to mean the individuals who are, or the corporate body which is bound with and for the Contractor for the acceptable performance of the contract, and for his payment of all debts pertaining to the work.

1.23 WORK

Wherever the word "Work" is used, it shall mean the work including all materials, labor, tools, appliances, equipment, and appurtenance necessary and incidental thereto to perform and complete everything specified or implied in the plans, specifications, and in the contract documents, in full compliance with all the terms and conditions thereof and in a good and workmanlike manner.

SECTION 2 AWARD AND EXECUTION OF CONTRACT

2.1 PUBLIC OPENING OF PROPOSALS

Proposals will be opened and read publicly at the time and place specified in the advertisement, or as soon thereafter as the business of the City Clerk permits. Bidders, their authorized agents, and other interested parties are invited to be present.

2.2 AWARD OF CONTRACT

The decision of the award of the contract will be made as may be decided upon by the Council after bids have been opened and tabulated. The Contract shall be governed by the laws of the State of Illinois. No contract shall provide for arbitration of the parties.

2.3 BONDS AND INSURANCE

The bidder to whom the award of contract is made will be required under this contract to furnish a Performance Bond acceptable to the Engineer in the amount of one hundred percent (100%) of the full contract price, a Payment Bond, Public Liability Insurance, and Workers Compensation Insurance; all of which shall be acceptable to the City of Aurora.

2.4 SUBLETTING OR ASSIGNMENT OF CONTRACT

The Contractor shall not sublet, sell, or assign all, or any portion of the contract, or of the work provided for therein, without the written consent and authorization of the City, and in no case shall such consent relieve said Contractor from either, any, or all of the obligations herein entered into, or change the terms of the obligations hereof.

2.5 FAILURE TO EXECUTE CONTRACT

In the event that said bidder fails or refuses to execute said contract and furnish said bonds within the period of ten (10) days after mailing notice of such award or within such additional number of days as the City may determine, then the sum deposited as a proposal guaranty by said bidder on the work so awarded may be retained by the City as liquidated damages and not a forfeiture. It is hereby agreed that said sum is a fair estimate of the amount of damages that the City will sustain in case said bidder fails to enter into the contract and furnish bonds as herein provided, said actual damages being uncertain in amount and difficult to determine in the event of such failure or refusal by the bidder.

2.6 VENUE FOR LEGAL ACTION

The venue for any legal action that may arise from this agreement shall be in Kane County, Illinois.

2.7 WAIVER OF TRIAL BY JURY

The Contractor agrees to waive trial by jury for itself and all of its contracts with sub-Contractors shall contain a provision waiving trial by jury in the event of any legal action which may arise from this agreement with the City of Aurora as a party litigant.

SECTION 3 SCOPE OF THE WORK

3.1 INTENT OF PLANS AND SPECIFICATIONS

The true intent of the plans and these specifications is to provide for the erection and completion in every detail of the work described herein, and it is understood that the Contractor will furnish all labor, materials, equipment, tools, transportation, and necessary supplies, such as may reasonably be required to execute the contract in a satisfactory and workmanlike manner and in accordance with the plans, specifications, and terms of the contract. Both parties must stipulate any deviation from these requirements in writing.

3.2 SPECIAL WORK

Should any construction conditions which are not covered by the plans and these specifications be anticipated or encountered during construction, Supplemental Specifications for such work will be prepared by the Engineer and shall be considered a part of these specifications, the same as though contained fully herein.

3.3 INCREASED OR DECREASED QUANTITIES

The right is reserved, without impairing the contract, to make such increase or decrease in the quantities of the work as may be considered necessary to complete fully and satisfactorily the work included in the contract. The compensation to the Contractor for such changes shall be adjusted as provided herein.

3.4 ALTERATIONS IN PLANS AND SPECIFICATIONS

The City reserves the right to make such changes in the plans and in the character of the work as may be necessary or desirable to ensure completion in the most satisfactory manner, provided such changes do not materially alter the original plans and specifications. Such changes shall not be considered as waiving or invalidating any conditions or provisions of the contract.

3.5 EXTRA WORK

The City reserves the right, without impairing the contract, to order the performance of such work, of a class not contemplated in the proposal as may be considered necessary to complete fully and satisfactorily the work included in the contract. The Contractor shall do such extra work when ordered and authorized in writing by the Engineer, and the Contractor shall be compensated for such extra work on the basis and in the amount as provided herein.

3.6 EASEMENTS, PERMITS, AND REGULATIONS

The Contractor shall keep himself fully informed of all Federal, State, Municipal and local regulations, private contracts, grants, easements, and permits, in any manner affecting the work herein specified and provided for. He shall at all times observe and comply with and cause all his Subcontractors, agents, and employees to observe and comply with each and all of the same. The Contractor does hereby assume any and all liability under the same and shall protect and indemnify the City and its officers and employees against any and all claims or liabilities arising from or based on the violation of, or failure to comply with either or all of the same.

3.7 FINAL CLEANING UP

Upon completion and before final acceptance of the work, the Contractor shall, in addition to the detailed work of grading, restoring ground surfaces, repairing roadways and pavements, and all other work specifically provided for in these specifications, remove all falsework, excess or useless excavated materials, rejected materials, rubbish, temporary buildings, temporary foundations, replace or renew any fences damaged, and restore in an acceptable manner all property, both public and private, which may have been damaged during the prosecution of the work, and shall leave the site of the work in a neat and presentable condition satisfactory to the Engineer.

SECTION 4 CONTROL OF THE WORK

4.1 AUTHORITY OF THE ENGINEER

The Engineer shall decide any and all questions which may arise as to the quality and acceptability of materials furnished and work performed, and as to the manner of performance and rate of progress of the work, and shall decide all questions which may arise as to the interpretation of the plans and specifications, and all questions as to the acceptable fulfillment of the terms of the contract.

4.2 PLANS AND WORKING DRAWINGS

General drawings, showing such details as are necessary to give a comprehensive idea of the construction contemplated, will be shown in the general plans, but the Contractor shall submit to the Engineer for approval such additional detailed shop drawings or working drawings, together with a detailed structural analysis of all component parts, as may be required for the construction of any part of the work and prior to the approval of such plans, any work done or material ordered shall be at the Contractor's risk.

The contract price shall include the cost of furnishing all working drawings and the Contractor will be allowed no extra compensation for such drawings.

4.3 DEVIATIONS FROM THE PLANS

No deviation from the general plans or the approved working drawings will be permitted without the written order of the Engineer. No allowance shall be made for work done other than is shown on the plans, profiles and drawings, and provided for in the specifications.

4.4 COORDINATION OF SPECIFICATIONS AND PLANS

In the event of any discrepancy between the plans and figures written thereon, the figures are to be considered as correct. In the case of any discrepancy between the plans and the specifications, the Engineer shall determine which are to govern. If there is a discrepancy between the general specifications and the supplemental specifications, the supplemental specifications are to govern.

The Contractor shall take no advantage of any apparent error or omission in the plans or specifications, but the Engineer shall be permitted to make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications.

4.5 ORDER OF WORK

The order of sequence of the execution and/or conduct of the work shall be subject to the approval and/or direction of the Engineer, which approval and/or direction shall not in any way relieve the Contractor of any responsibility in connection with the prosecution to completion of the work under contract.

4.6 COOPERATION BY CONTRACTOR

The Contractor shall conduct his operation so as to interfere as little as possible with those of other Contractors, Subcontractors, the public, or adjoining property owners on or near the work site. The Contractor shall at all times during his absence from the work site have a competent superintendent or foreman capable of reading and thoroughly understanding the plans and specifications, as his agent on the work, who shall receive instructions from the Engineer or his authorized representative. The superintendent or foreman shall have full authority to execute the order and/or directions of the Engineer without delay and to promptly supply such materials, tools, plant equipment, and labor as may be required. The superintendent or foreman shall have a copy of the plans and specifications on the job at all time.

4.7 CONSTRUCTION STAKES

Reference lines and grade points for the location, alignment, and elevation of each structure will be determined and established by the Engineer, but the Contractor shall assume full responsibility for the alignment, elevations, and dimensions of each and all parts of the work with reference to the lines, points, and grades as established by the Engineer. For all structures, the Engineer shall furnish the Contractor with centerline and/or center points and such benchmarks or other points as are necessary to lay out the work correctly. The Contractor shall check all lines, points, and grades which may be given by the Engineer supplementary to the centerline, points, and control bench marks aforesaid, and shall be responsible for the accuracy of all measurements for grades and alignment of the work with reference to the centerline and/or points and bench marks established by the Engineer.

The Contractor shall exercise proper care in the preservation of alignment, grade, and reference stakes set for his use, or that of the Engineer. If such stakes are injured, lost, or removed by the Contractor's operations, they shall be reset at his expense.

4.8 INSPECTION

The Engineer or his representative shall be allowed access to all parts of the work at all times and shall be furnished such information and assistance by the Contractor as may be required to make a complete and detailed inspection thereof. Such inspection may include mill, plant, or shop inspection and any material furnished under these specifications is subject to such inspection.

SECTION 5 CONTROL OF MATERIALS

5.1 SPECIFICATIONS FOR MATERIALS

All materials used in this work shall conform in all respects to the specifications therefore as herein set forth. Where a specification for material to be used in this work is not specifically set forth in these specifications, such material shall conform in all respects to the specifications as set forth in the A.S.T.M. Standards and/or Tentative Standards adopted and in effect on the date of receiving bids.

5.2 SUBSTITUTION OF MATERIALS AND EQUIPMENT

Wherever in these specifications or on the plans for this work, materials or equipment are specified by trade names or catalog numbers of certain manufacturers, it is done for the purpose of establishing a standard of quality, durability, and/or efficiency, and not for any purpose of limiting competition. Wherever such definite reference is made in these specifications to any such material or equipment, is understood that any equivalent material or equipment may be provided, however, that the written approval and acceptance of the Engineer of such equivalent material or equipment must be obtained prior to its purchase and/or incorporation in any part of the work.

5.3 THE METHODS OF TESTING

All tests of materials or equipment used in the work shall be made in accordance with the methods described in these specifications or the method of test prescribed in any specification for material or equipment herein specifically referred to and designated to govern the quality of any material or equipment.

Where a method of test for any material or equipment is not specifically provided for, such material or equipment shall be tested in accordance with the methods prescribed and set forth in the A.S.T.M. Standards and Tentative Standards adopted and in effect on the date of receiving bids.

5.4 DEFECTIVE MATERIALS

All materials not conforming to the requirements of these specifications shall be considered as defective and all such materials, whether in place or not, shall be rejected and shall be removed immediately from the work by the Contractor at his expense unless otherwise permitted by the Engineer. No rejected materials, the defects of which have been subsequently corrected, shall be used until approval has been given. Upon failure on the part of the Contractor to immediately comply with any order of the Engineer relative to the provisions of this section, the Engineer shall have the authority to remove and replace such defective material and to deduct the cost of removal and replacement from any moneys due or which may become due to the Contractor.

SECTION 6 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

6.1 COMPLIANCE WITH LAWS AND REGULATIONS

The Contractor shall at all times observe and comply with all Federal, State, Municipal and other local laws, ordinances, regulations, and requirements which in any manner affect the conduct of the work, and with all Federal, State and local laws and policies of non-discrimination, sexual harassment, prevailing wages and others applicable hereto; and all such orders or decrees as exist at the present and which may be enacted later, of bodies or tribunals having jurisdiction or authority over the work, and no plea of misunderstanding or ignorance thereof will be considered. He shall indemnify and save harmless the City and all its officers, agents, employees, and servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, requirement, order or decree, whether by himself or his employees.

6.2 PERMITS AND LICENSES

The Contractor shall take out and procure at his own expense all permits and licenses required by Federal, State or local public authorities, and he shall, without extra compensation from the City, pay all fees and charges and give notices required incident to the due and lawful prosecution of the work in relation thereto.

6.3 PATENTED DEVICES, MATERIALS, AND PROCESSES

It is mutually understood and agreed that without exception contract prices are to include all royalties and costs arising in the work. It is the intent that whenever the Contractor is required or desires to use any design, device, material, or process covered by letters of patent or copyright, the right of such use shall be provided for by suitable legal agreement with the patent owner. The Contractor and Surety in all cases shall indemnify and save harmless the City from any and all claims for infringement by reason of the use of any such patent design, device, materials, or process, to be performed or used under the contract, and shall indemnify and save harmless the said City for any costs, expenses, attorney's fees, and damages which it may be obligated to pay, by reason of any such infringement at any time during the prosecution or after the completion of the work.

6.4 BARRICADES, LIGHTS, AND SIGNS

The Contractor shall at his own expense and without further or other order provide, erect, and maintain at all times during the progress or suspension of the work, suitable barricades, fences, signs, or other adequate protection, and shall provide, keep, and maintain such lights, danger signals, and watchmen as may be necessary or as may be ordered by the Engineer to ensure the safety of the public, as well as those engaged in connection with the work. All barricades and obstructions shall be protected at night by signal lights, which shall be suitably placed, and which shall be kept burning from sunset to sunrise. Barricades shall be of substantial construction and shall be painted in such a way as to increase their visibility at night.

The Contractor shall be held responsible for all damage to the work due to failure of barricades, signs, lights, and watchmen to protect it, and whenever evidence of such damage is found prior to acceptance, the Engineer may order such damaged portion immediately removed and replaced by the Contractor without cost to the City if, in his opinion, such action is justified. The Contractor's responsibility for the maintenance of barricades, signs, and lights shall not cease until the project shall have been accepted.

6.5 USE OF EXPLOSIVES

The use of explosives shall be prohibited.

6.6 PROTECTION AND RESTORATION OF PROPERTY

It is understood that in the execution of the work herein provided for there may be interference with and/or damage to trees, shrubbery, crops, fences, railroad tracks, overhead structures such as poles, wires, cables, underground structures such as sewers, gas mains, telephone conduits and cables, water mains, drains, service connections, wires, pipes, conduits, located along, adjacent to, and/or crossing the locations of the work, and that it may be necessary to relocate or reconstruct certain of such structures, improvements, and installations and/or to make repairs to the same by reasons of doing the work herein provided for, and it is therefore particularly and specifically agreed that the Contractor, except as otherwise herein provided, shall do the work necessary for such relocation, reconstruction, and repair and shall bear and pay all of the cost and expense of such relocation, reconstruction, and/or repair of, and all damage done to any and all such pipe line and other structures, improvements, and installations, including service connections, if any, to adjacent property, existing at the date of the execution of the contract and/or existing, during the period of the work to be done under the contract, which may be interfered with, damaged, and/or necessarily relocated, reconstructed, or repaired in the performance of the work herein provided for, including the restoration and resurfacing of unpaved portions of public streets and alleys, rights-of-way, easements, and private property damaged or disturbed by the work, the same to be restored to as good condition as the same existed at the time of the commencement of any such work or relocation.

It is further agreed that the owners of any structures, improvements, installations, referred to in the preceding paragraph shall have the right to do the work or any part thereof necessary for the relocation, reconstruction, replacement, repair, and other work required by reason of any interference with and/or damage to such structures, improvements, installations, due to the prosecution of the work and upon completion of such work by them done, said owners may render bills to the Contractor for the cost and expense thereof, which bills shall be paid by the Contractor, without extra compensation therefore from the City, upon demand by said owners, or upon demand made by the City upon the Contractor for the payment thereof.

6.7 RESPONSIBILITY FOR DAMAGE CLAIMS

The Contractor agrees to indemnify and save harmless the City of Aurora, their agents, and employees from and against all loss and expenses (including costs and attorneys' fees) by reason of liability imposed by law or claims made upon the City of Aurora for damages because of bodily injury, including death at any time resulting therefrom sustained by any person or persons or on account of damage to property, including loss of use thereof, arising out of or in consequence of the performance of this work, whether such claims or injuries to persons or damage to property be due to the negligence of the Contractor, his Subcontractors or the City of Aurora.

The Contractor shall assume total risk and shall be responsible for any and all damages or losses caused by or in any way resulting from the work and provide all insurance necessary to protect and save harmless the City of Aurora and its employees. Said insurance shall include contractual liability equal to the limits hereinafter set forth.

The Contractor agrees to purchase a policy of insurance, which shall include the City of Aurora as an additional insured or provide separate coverage for the City with an owner's protective policy. All Insurance provided by Contractor, extending to owner as additional insurance, shall be primary and insurance maintained by owner shall be excess and not contributing with Contractor's insurance. The minimum amounts of insurance shall be as follows, except that no restrictions on occurrence limits will be permitted:

Bid Number 24-066

Bodily Injury Liability

Each Occurrence
\$3,500,000

Property Damage Liability

Each Occurrence
\$500,000

Aggregate
\$7,000,000

The coverage and amounts above are minimum requirements and do not establish limits to the Contractor's liability. Other coverage and higher limits may be provided at the Contractor's option and expense.

Owner does not waive its subrogation rights against Contractor and/or any Subcontractor for damages due to losses to owner due to the fault or negligence of the Contractor and/or any Subcontractors during or as a result of the performance of the work.

All such insurance must include an endorsement whereby the insurer agrees to notify the City of Aurora at least thirty (30) days prior to non-renewal, reduction or cancellation. The Contractor shall cease operations on the project if the insurance is canceled or reduced below the required amount of coverage. All costs for insurance as specified herein will not be paid for separately, but shall be considered as incidental to the contract.

6.8 WORKERS COMPENSATION ACT

The Contractor further agrees to insure his employees and their beneficiaries and to provide the employees and the beneficiaries of any Subcontractor employed from time to time by him on said work, the necessary first-aid, medical, surgical, and hospital services and any compensation provided for in the Workers Compensation Act of the State of Illinois that is or may be in force in the State.

Such insurance shall be placed by said Contractor in a company or association (to be approved by the City and to be accepted by the Council thereof) authorized under the laws of the State of Illinois to insure the liability above specified.

Said Contractor hereby further agrees to indemnify, keep and save harmless said City from all action, proceedings, claims, judgments, awards, and costs, losses, damages, expenses, and attorney's fees which may in any way be brought against said City by reason of any accidental injuries or death suffered by any of his employees or the employees of any Subcontractor employed by him in and about the performance of the work provided for in the contract, and any and all liability resulting thereupon; and said Contractor, in case of any suit, action, or proceeding on account of any or all of the foregoing shall defend the same for and on behalf of said City and indemnify the City therefore and pay the amount of any and all awards and final judgments and/orders rendered and entered therein, together with all loss, costs, damages, attorney's fees, and expenses incurred therein. Said Contractor shall be the sole employer of its employees and workers, and in no way so shall the City be considered a joint employer of same under any circumstance.

6.9 LOCAL BIDDER PREFERENCE

O18-070, amended by O20-029 approved April 28, 2020 defines "Local business" to mean a vendor or contractor who has a valid, verifiable physical business address located within the corporate boundaries of the City of Aurora at least twelve months prior to a bid or proposal opening date, from which the vendor, contractor or consultant operates or performs business on a daily basis, including manufacturing production or distribution. The business must disclose the percentage of workforce in the City of Aurora; be registered with the City of Aurora, if applicable; be subject to City of Aurora taxes (inclusive of sales taxes); be current with property tax payments and sales tax payments; not have any outside cited code violations; not have any outstanding debts to the City of Aurora; have adequately qualified and trained staff to service the bid of interest.

Bid Number 24-066

SECTION 7 PROSECUTION AND PROGRESS OF WORK

7.1 SUBLETTING OR ASSIGNMENT OF WORK

If the Contractor sublets the whole or any part of the work to be done under the contract, with or without the written consent of the City, he shall not, under any circumstances, be relieved of his liabilities and obligations. All transactions of the Engineer shall be with the Contractor; Subcontractors shall be recognized only in the capacity of employees or workmen and shall be subject to the same requirements as to character and competence. In case any party or parties, to whom any work under the contract shall have been sublet, shall disregard the directions of the Engineer or his duly authorized representatives, or shall furnish any unsatisfactory work or shall fail or refuse in any way to conform to any of the provisions or conditions of the contract, then in that case, upon the written order of the Engineer, the Contractor shall require said party or parties in default to discontinue work under the contract. Said work shall be corrected or made good and shall be continued and completed by the said Contractor or by such other party or parties as are approved by the Engineer, in the manner and subject to all of the requirements specified in the contract.

7.2 PROSECUTION OF WORK

The Contractor shall begin the work to be performed under the contract no later than ten (10) days after the execution and acceptance of the contract, unless otherwise provided. The work shall be conducted in such a manner and with sufficient materials, equipment and labor as is considered necessary to ensure its completion within the time specified in the contract. The Contractor shall solely be fully responsible for complying with state and local prevailing wage requirements in accordance with its Bidders Certification, and for all wage rate and hour regulations and applications

7.3 GUARANTEE AND MAINTENANCE OF WORK

The Contractor shall guarantee the work to be free from defects of any nature for a period of one year from and after the final acceptance and payment for the work by the City, and the Contractor shall maintain said work and shall make all needed repairs and/or replacements during this one year period which in the judgment of the Council, may be necessary to ensure the delivery of the work to the City in first-class condition and in full conformity with the plans and specifications therefore, at the expiration of the guarantee period.

7.4 PAYMENT

Basis of Payment

Payment of the CONTRACTOR for performance of the CONTRACT shall be made by the OWNER and shall be based on the value of the installation resulting from the CONTRACTOR's operations.

The cost of all WORK incidental to the completion of the project in accordance with the Plans and Specifications, excepting authorized extra WORK, shall be included in the unit and lump sum prices stated in the CONTRACTOR's accepted Proposal. The amount obtained by the summation of the products of the quantities of WORK performed or the respective unit or lump sum prices for several items listed in the proposal shall be payment in full, except for payment for authorized extra WORK, for delivering the completed project to the OWNER in accordance with the Plans and Specifications.

Submission of Bid Breakdown

Within 15 days after the execution of this CONTRACT, the CONTRACTOR must submit to the ENGINEER in duplicate an acceptable breakdown of the lump sums and unit prices bid for items of the CONTRACT, showing the various operations to be performed under the CONTRACT, and the value of each of such operations, the total of such items to equal the total price bid. The CONTRACTOR shall also submit such other information relating to the bid prices as may be required and shall revise the bid breakdown as directed. Thereafter, the breakdown may be used for checking the CONTRACTOR's applications for partial payments hereunder but shall not be binding upon the OWNER or the ENGINEER for any purpose whatsoever.

Partial Payments

When not otherwise provided for under the Specifications for an item of WORK or a complete project, and if the rate of progress is satisfactory to the ENGINEER, partial payments will be made the CONTRACTOR by the OWNER during progress of construction. The amount of each partial payment shall be limited to ninety (90) percent (unless otherwise provided in the Instructions to Bidders) of the value of the WORK shown in the Engineer's periodic estimate to have been done and installed in place by the CONTRACTOR subsequent to the time of commencing WORK or of making the last preceding partial payment on account of WORK done. An amount greater than ninety (90) percent of the value of a largely completed project may be paid the CONTRACTOR at the option of the OWNER.

The CONTRACTOR's request for payment shall be in the form of an invoice, submitted to the OWNER through the ENGINEER, setting forth amounts due for WORK completed on payment items set forth in the CONTRACTOR's Proposal, and shall be accompanied by:

- (1) CONTRACTOR's Sworn Statement setting forth the Subcontractors and material suppliers, the amount requested for each of the Subcontractors or material suppliers, and the amount of the subcontract or material to be completed.
- (2) Subcontractor or material suppliers waivers of lien for amounts requested on previous payment requests.
- (3) CONTRACTOR's waivers of lien.

The CONTRACTOR's request will be reviewed by the ENGINEER and if the ENGINEER is in agreement with the value of WORK completed, as requested by the CONTRACTOR, and if the request is accompanied by the CONTRACTOR's Sworn Statement, Subcontractor and material suppliers waiver of lien as stated above, and by the CONTRACTOR's waiver of lien, the ENGINEER will recommend payment to the OWNER.

Partial payment made to the CONTRACTOR by the OWNER for WORK performed shall in no way constitute an acknowledgement of the acceptance of the WORK nor in any way prejudice or affect the obligation of the CONTRACTOR, at his expense, to repair, correct, renew or replace any defects or imperfections in the construction of the WORK under CONTRACT and its appurtenances, nor any damage due or attributable to such defect, damage and the CONTRACTOR shall be liable to the OWNER for failure to correct the same as provided herein.

Payment in full or in part may be withheld for reasons which include but are not limited to: (1) the existence of defective work which is not remedied; (2) the existence of third party claims filed or reasonable evidence indicating probable filing of such claims; (3) the failure of the CONTRACTOR to

make payments properly to Subcontractors or for labor, materials or equipment; (4) the existence of reasonable evidence that the WORK cannot be completed for the unpaid balance of the contract sum; (5) damage to the OWNER; (6) the existence of reasonable evidence that the WORK will not be completed within the CONTRACT time, and that the unpaid balance will not be adequate to cover actual or liquidated damages for the anticipated delay; or, (7) persistent failure to carry out the work in accordance with the contract documents. If within a reasonable time not to exceed 45 days CONTRACTOR has not remedied any condition for which payment in full has been withheld, then OWNER may make such payments as OWNER deems necessary to remedy such situation from said funds withheld and pay the balance to CONTRACTOR, or if, sums are still due to remedy the situation, CONTRACTOR will remit any balances due to OWNER within 10 days of notice of same.

ACCEPTANCE AND FINAL PAYMENT

Whenever the CONTRACT shall have been completely performed on the part of the CONTRACTOR, and all parts of the WORK have been approved by the ENGINEER and accepted by the OWNER, including the resolution of all matters of dispute, a final estimate showing the value of the WORK will be prepared by the ENGINEER as soon as the necessary measurements and computations can be made, all prior estimates upon which payments have been made being approximate only and subject to corrections in the final payments.

The CONTRACTOR shall submit a final payment request showing the total quantities completed for the entire project and all previous payouts. This payment request shall be accompanied by a sworn affidavit listing all Subcontractors and material suppliers and the total payments to each. Final Waivers of Lien from the Subcontractors and material suppliers as well as the CONTRACTOR shall also be furnished at this time.

A final payment including all amounts of money shown by the final estimate to be due the CONTRACTOR shall be made by the OWNER as soon as practicable after the final acceptance of the WORK, provided the CONTRACTOR has furnished the OWNER satisfactory evidence that all sums of money due for labor, materials, apparatus, fixtures or machinery furnished for the purpose of performing the Contract have been paid or that the person or persons to whom the same may respectively be due have consented to such final payment.



RETURN WITH BID

PAPER BID BOND

Date

PROPOSAL

TO: THE HONORABLE MAYOR AND CITY COUNCIL
CITY OF AURORA
44 EAST DOWNER PLACE
AURORA, ILLINOIS 60507

1. Proposal of _____
for the improvement known as the **2024 R.O.W. Maintenance Program (Bid 24-066)**
2. The plans and specifications for the proposed improvements are those prepared by the City of Aurora Engineering Division and approved by the City Council of Aurora, Illinois.
3. In submitting this proposal, the undersigned declares that the only persons or parties interested in the proposal as principals are those named herein, and that the proposal is made without collusion with any person, firm, or corporation.
4. The undersigned further declares that he has carefully examined the proposals, plans, specifications, form of contract and contract bond, and special provisions, if any, and that he has inspected in detail the site of the proposed work and that he has familiarized himself with all of the local conditions affecting the contract and detailed requirements of construction, and understands that in making this proposal he waives all right to plead any misunderstanding regarding the same.
5. The undersigned further understands and agrees that if the proposal is accepted, he is to furnish and provide all necessary machinery, tools, apparatus and other means of construction and to do all of the work and to furnish all of the materials and labor required.
6. The undersigned declares that he understands that the quantities mentioned are approximate only, and that they are subject to increase or decrease; that he will take in full payment therefore the amount of the summation of the actual quantities, as finally determined, and multiplied by the unit prices shown in the schedule of prices contained herein.
7. The undersigned agrees that the unit prices submitted herewith are for the purpose of obtaining a gross sum and for use in computing the value of extras and deductions; that if there is a discrepancy between the gross sum bid and that resulting from the summation of the quantities multiplied by their respective unit prices, the latter shall apply.
8. The undersigned agrees that if the City decides to extend or shorten the improvement, or otherwise alter it by extras or deductions, including the elimination of any one or more of the items, as provided in the specifications, he will perform the work as altered, increased or decreased, at the contract unit prices without claim for profits lost as a result of any work or items eliminated by the City of Aurora.
9. The undersigned agrees that the Engineer may, at any time during the progress of the work covered by this contract, order other work or materials incidental thereto, and that all such work and materials as do not appear in the proposal or contract as a specific item accompanied by a unit price, and which are not included under the bid price for other items in this contract, shall be performed as extra work, and that he will accept as full compensation therefore the actual cost plus ten percent (10%), the actual cost to be determined as provided for in the specifications.
10. The undersigned further agrees to execute a contract, a contract bond satisfactory to and in the form prescribed by the City in the penal sum of the full amount of the contract, guaranteeing the

Bid Number 24-066

faithful performance of the work in accordance with the terms of the contract within **fifteen (15)** days after receiving the notice of award of the contract.

11. The undersigned further agrees to begin work not later than **ten (10)** calendar days after the execution or by the date stated within the contract documents and approval of the contract and contract bond, unless otherwise provided, and to prosecute the work in such a manner and with sufficient materials, equipment, and labor as will insure its completion within the time limit specified herein, it being understood and agreed that the completion within the time limit is an essential part of the contract.
12. The undersigned agrees to complete the work within the time stipulated in the Special Provisions.
13. All work shall be completed to the satisfaction of the Engineer by the above dates unless the Engineer in accordance with the specifications grants additional time. In case of failure to complete the work within the time named herein, or within such extra time as may have been allowed by extensions, the undersigned agrees that the City shall withhold from such sums as may be due him under the terms of the contract the liquidated damages as set forth in the Standard Specifications, which costs shall be considered and treated not as a penalty, but as damages due the Municipality from the undersigned by reason of inconvenience to the public, added cost of engineering and supervision, and other items which have caused an expenditure of public funds resulting from the failure of the undersigned to complete the work within the time specified in the contract.
14. If this proposal is accepted and the undersigned shall fail to execute a contract and contract bond as required herein, it is hereby agreed that the amount of the check or draft or bidder's bond substituted in lieu thereof shall become the property of the City and shall be considered not as a penalty but as payment of liquidated damages due to delay and other causes suffered by the City because of the failure to execute said contract and contract bond, otherwise said check or draft or bidder's bond substituted in lieu thereof shall be returned to the undersigned.
15. Accompanying this proposal is either a **5% Bid Bond** or a proposal guaranty check, complying with the specifications, made payable to the City Treasurer of the City of Aurora. The amount of the check is \$ _____
16. The undersigned submits herewith his schedule of prices covering the work to be performed under this contract, he understands that he must show in the schedule the unit prices for which he proposes to perform each item of work, that the extensions must be made by him, and that if not so done, his proposal may be rejected as irregular or non-responsive.
17. The undersigned agrees to conform to Section 100 of the Standard Specifications and to Article 107.27 of that section indemnifying and saving harmless the City of Aurora and its officers, agents, and employees. The Contractor shall provide insurance with limits as stated in the Article 6.7 of the *City of Aurora - General Specifications*.
18. The City of Aurora reserves the right to reject any or all of the bids and to waive any and all irregularities and technicalities. The City of Aurora shall either award the project or reject the bids within sixty (60) calendar days after the bid opening. This time frame may be extended upon mutual agreement of the City and the Bidder.
19. The undersigned of this proposal agrees that he or she has examined all sections of this Proposal, Specifications, and Bidding Documents and hereby understands and accepts the provisions for access, or the lack of access, to the construction site and shall claim no compensation other than the prices as bid for this condition of accessibility.

20. The undersigned further agrees that the unit prices submitted herewith are for the complete item constructed, including all labor, equipment, material and other necessary incidental work.
21. The undersigned agrees to indemnifying and saving harmless the City of Aurora, its officers, agents, employees, and servants by filing with the City, prior to the execution of the contract, copies of completed Certificates of Insurance satisfactory to the City, with the City of Aurora named as co-insured; automobile liability insurance covering owned, non-owned, and hired vehicles with limits of liability as stated in the City of Aurora - General Specifications Article 6.7.
22. No bid shall be considered unless the party offering it shall furnish evidence satisfactory to the City of Aurora that he has been previously engaged in the quality construction of improvements of the same character as the one herein specified, and that he has the necessary facilities, equipment, experience, and ability and pecuniary resources to fulfill the conditions of the contract
23. No contract will be awarded to any bidder where that bidder or any principal or supervisory personnel of the bidder has been personally involved with another business that has been delinquent or unfaithful in any former contract with the City or where that bidder or any supervisory personnel of the bidder has been personally involved with another business that is a defaulter as surety or otherwise upon obligation to the City.
24. The Illinois Freedom of Information Act (FOIA) has been amended and effective January 1, 2010, adds a new provision to Section 7 of the Act which applies to public records in the possession of a party with whom the City of Aurora has contracted. The City of Aurora will have only a very short period of time from receipt of a FOIA request to comply with the request, and there is a significant amount of work required to process a request including collating and reviewing the information. The undersigned acknowledges the requirements of FOIA and agrees to comply with all requests made by the City of Aurora for public records (as that term is defined by Section 2(c) of FOIA) in the undersigned's possession and to provide the requested public records to the City of Aurora within two (2) business days of the request being made by the City of Aurora. The undersigned agrees to indemnify and hold harmless the City of Aurora from all claims, costs, penalty, losses and injuries (including but not limited to, attorney's fees, other professional fees, court costs and/or arbitration or other dispute resolution costs) arising out of or relating to its failure to provide the public records to the City of Aurora under this agreement.
25. The undersigned submits herewith this **Schedule of Prices** covering the work to be performed under this contract:

SCHEDULE OF PRICES

RFB 24-066 (2024 R.O.W. Maintenance Program)

#	Items	Unit	Quantity	Unit Price	Total
1	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	FOOT	866		
2	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	36,923		
3	DETECTABLE WARNINGS	SQ FT	758		
4	SIDEWALK REMOVAL	SQ FT	36,923		
5	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	SQ YD	3,349		
6	CLASS D PATCHES, 3" (SPECIAL)	SQ YD	27,438		
7	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,789		
8	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, BIKE PATH	TON	446		
9	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	EACH	3		
10	CATCH BASINS TO BE ADJUSTED	EACH	5		
11	THERMOPLASTIC PAVEMENT MARKING, LINE 4 INCH	FOOT	73,824		
12	THERMOPLASTIC PAVEMENT MARKING, LINE 6 INCH	FOOT	22,748		
13	THERMOPLASTIC PAVEMENT MARKING, LINE 12 INCH	FOOT	5,398		
14	THERMOPLASTIC PAVEMENT MARKING, LINE 24 INCH	FOOT	4,256		
15	THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	1,456		
16	MODIFIED URETHANE PAVEMENT MARKING, LINE 4 INCH	FOOT	175		
17	MODIFIED URETHANE PAVEMENT MARKING, LINE 6 INCH	FOOT	2,992		
18	MODIFIED URETHANE PAVEMENT MARKING, LINE 12 INCH	FOOT	3,593		
19	MODIFIED URETHANE PAVEMENT MARKING, LINE 24 INCH	FOOT	100		
20	MODIFIED URETHANE PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	100		
21	GROOVING FOR RECESSED PAVEMENT MARKING, 5"	FOOT	22,509		
22	GROOVING FOR RECESSED PAVEMENT MARKING, 7"	FOOT	4,920		
23	GROOVING FOR RECESSED PAVEMENT MARKING, 13"	FOOT	1,771		
24	GROOVING FOR RECESSED PAVEMENT MARKING, 25"	FOOT	1,392		
25	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	479		
26	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	54		
27	NEW SIDEWALK	SQ FT	910		
28	DRIVEWAY PAVEMENT REMOVAL	SQ FT	995		
29	PREPARATION OF BASE	SQ YD	1,940		
30	CLASS D PATCHES, TYPE I ,2"	SQ YD	979		
31	COMB CONCRETE CURB AND GUTTER TYPE B-6.12	FOOT	712		
32	PCC DRIVEWAY PAVEMENT, 6 INCH	SQ YD	133		
33	CRACK ROUTING (PAVEMENT)	FOOT	163,992		
34	CRACK FILLING	POUND	98,395		
35	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1		

Bid Number 24-066

36	LANDSCAPE RESTORATION	L SUM	1		
37	ITEMS TO BE ORDERED BY THE ENGINEER	ALLOWANCE	1	\$25,000.00	\$25,000.00
				TOTAL	



(If an individual)

Signatures

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed by _____

Business Address _____

Insert
Names and
Addresses of
All Partners

(If a corporation)

Corporate Name _____

Signed By _____

President

Business Address _____

President _____

Secretary _____

Treasurer _____

Attest: _____
Secretary

BIDDER'S CERTIFICATION

I/We hereby certify that:

A complete set of bid papers, as intended, has been received, and that I/We will abide by the contents and/or information received and/or contained herein.

- B. I/We have not entered into any collusion or other unethical practices with any person, firm, or employee of the City which would in any way be construed as unethical business practice.
- C. I/We have adopted a written sexual harassment policy which is in accordance with the requirements of Federal, State and local laws, regulations and policies and further certify that I/We are also in compliance with all other equal employment requirements contained in Public Act 87-1257 (effective July 1, 1993) 775 ILCS 5/2-105 (A).
- D. I/We are in compliance with the most current "Prevailing Rate" of wages for laborers, mechanics and other workers as required by the State of Illinois Department of Labor.
- E. I/We operate a drug free environment and drugs are not allowed in the workplace or satellite locations as well as City of Aurora sites in accordance with the Drug Free Workplace Act of January, 1992.
- F. The Bidder is not barred from bidding on the Project, or entering into this contract as a result of a violation of either Section 33E-3 or 33E-4 of the Illinois Criminal Code, or any similar offense of "bid rigging" or "bid rotating" of any state or the United States.
- G. I/We will submit with our bid, for all contracts in excess of \$25,000.00, a certificate indicating participation in apprenticeship and training programs approved and registered with the United States Department of Labor.

☐ Contractor shall check the box indicating that a copy of applicable program certification is attached.

- H. I/We have obtained IDOT prequalification as described in Check Sheet LRS6 in the "Supplemental Specifications and Recurring Special Provisions" in the categories appropriate for the type of work proposed for this project.

☐ Contractor shall check the box indicating that a copy of the IDOT prequalification certification for the appropriate categories is attached.

- I. I/We will abide by all other Federal, State and local codes, rules, regulations, ordinances and statutes.
- J. I/We will abide by the "Illinois Preference Act" which requires contractors to use at least 90% Illinois laborers on all public works projects that receive State funds or funds administered by the State during a period of "excessive unemployment" (Employment of Illinois Workers on Public Works Act, 30 ILCS 570/).

COMPANY NAME _____

ADDRESS _____

CITY/STATE/ZIP CODE _____

NAME OF CORPORATE/COMPANY OFFICIAL _____
PLEASE TYPE OR PRINT CLEARLY

TITLE _____

AUTHORIZED OFFICIAL SIGNATURE _____

DATE _____

Subscribed and Sworn to

TELEPHONE (____) _____

Before me this ____ day

FAX No. (____) _____

of _____, 20____

E-MAIL ADDRESS _____

Notary Public

Bid Number 24-066

Apprenticeship or Training Program Certification

Return with Bid

All contractors are required to complete the following certification:

- ☐ For this contract proposal or for all groups in this deliver and install proposal.
- ☐ For the following deliver and install groups in this material proposal:

The City of Aurora policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders to disclose participation in apprenticeship or training programs that are approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
- II. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

- III. Except for any work identified above, any bidder that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership. ☐

The requirements of this certification and disclosure are a material part of the contract. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. **The City of Aurora requires a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors be included with the bid in order to qualify to bid on the project.**

Bidder: _____ By: _____
Address: _____ Title: _____
(Signature)

STATE OF ILLINOIS)
) ss.
County of Kane)

BIDDER'S TAX CERTIFICATION

(BIDDER'S EXECUTING OFFICER), being first duly sworn on oath, deposes and states that all statements made herein are made on behalf of the Bidder, that this despondent is authorized to make them and that the statements contained herein are true and correct.

Bidder deposes, states and certifies that Bidder is not barred from contracting with any unit of local government in the State of Illinois as result of a delinquency in payment of any tax administered by the Illinois Department of Revenue unless Bidder is contesting, in accordance with the procedures established by the appropriate statute, its liability for the tax or the amount of the tax, all as provided for in accordance with 65 ILCS 5/11-42.1-1.

DATED this _____ day of _____, 20__.

By _____
(Signature of Bidder's Executing Officer)

(Print name of Bidder's Executing Officer)

(Title)

ATTEST/WITNESS:

By _____

Title _____

Subscribed and sworn to before me this
_____ day of _____, 20__.

Notary Public

(SEAL)



City of Aurora, IL - Local Vendor Preference Application

The business identified below is requesting to be placed on the City of Aurora, Illinois Local Vendor Preference list, in accordance with ordinance O18-070, amended with ordinance O20-029 approved April 28, 2020.

- 1) Date Submitted: _____
- 2) Name of Business: _____
- 3) Address of Local Office: _____
- 4) City, State, Zip: _____
- 5) Company's Web Address: _____
- 6) Phone: _____ Fax: _____
- 7) County your Local Business is Located In: _____

Submitted By (Signature): _____

Print Name and Title: _____

Email Address: _____

Sec. 2-410.-Prequalification; local bidder.

- (a) If an interested business would like to prequalify as a "local business", such a business shall complete and submit the prequalification application along with supporting documentation, as listed below, and the applicable fee as set by the City Council, to the Finance Department:
- a. Evidence that the business has established and maintained a physical presence in the City of Aurora, by virtue of the ownership or lease of all or a portion of a building for a period of not less than twelve (12) consecutive months prior to the submission of the prequalification application; and
 - b. Evidence demonstrating that the business is legally authorized to conduct business within the State of Illinois and the City of Aurora, and has a business registered to operate in the City if required; and
 - c. Evidence that the business is not a debtor to the City of Aurora. For purposes of this subparagraph, a debtor is defined as having outstanding fees, water bills, sales tax or restaurant/bar tax payments that are thirty (30) days or more past due, or has outstanding weed or nuisance abatements or liens, has failure to comply tickets or parking tickets that are not in dispute as to their validity and are not being challenged in court or other administrative processes.

Back up documentation for (a) a. and (a) b. must accompany this submittal or application will be rejected.

Please note for (a) c. above the City of Aurora will verify internally that your company does not have any outstanding fees. Your company should make sure that to the best of its knowledge all bills are current.

Return completed application, with all required backup documentation to:

City of Aurora, Attn: Purchasing Division, 44 E. Downer Place, Aurora, IL 60507

Or email to: PurchasingDL@Aurora-il.org

Do not write below this line: For City of Aurora use ONLY

- (a) a.
(a) b.
(a) c.

Date: _____

Approved: _____

Letter Sent: _____

Denied: _____

Initials: _____

2024 CITY WIDE PATCH LIST

STREET	LOCATION		ESTIMATED SQ YD	CLASS D PATCHES (SPECIAL), 3 INCH	Ward
				PAY ITEM #6	#
Mountain St	Sheridan	Ohio	397	15x40, 15x60, 7x10, 7x20, 7x15, 10x15, 10x30, 15x40, 7x30, 10x20 , 10x30	1
Squire	Church	Shamrock Ct	300	15x30, 15x30, 40x30, 10x30, 10x30	1
Marikay Av	Joel	Culdesac	112	7x20, 7x10, 10x20, 8x20, 10x30, 7x20	1
N Marywood Av	Marshall Bl	Molitor	222	7x30, 7x40, 7x20, 7x30, 8x40, 10x30, 10x30, 8x30	1
Orchid St	Lily St	Daisy St	213	15x40, 5x30, 15x50, 7x40, 7x20	1
McClure Rd	Reckinger	Reckinger	333	10x40, 10x50, 7x40, 8x40, 7x20, 7x30, 7x30, 7x30, 10x30	1
Biliter	Church	Mitchell	224	15x60, 7x50, 7x40, 7x30, 7x20, 15x70, 7x20, 7x20, 7x20	1
Zenner St	Pine Av	Hankes Av	118	12x30, 8x50, 10x30	1
Pine Av	High St	West End	156	7x10, 7x20, 7x30, 10x20, 7x10, 10x30, 7x30, 10x20	1
Molitor	Charles	Lilly	216	12x20, 7x10, 7x20, 10x70, 7x35, 7x20, 7x35, 8x20	1
Reckinger	Farnsworth	Felten Rd	199	8x20, 10x20, 7x35, 7x30, 7x30, 7x25, 7x35, 7x30, 7x20	1
Diehl Rd	Felten	White Oak Cr	519	7x30, 7x25, 13x60, 13x80, 13x60, 13x50, 13x80	1 and 10
Alley 1	Downer/Stolp	Galena/Broadway	12	7x15	2
Alley 2	New York / Oak	Blackhawk / Galena	54	8x10 (6"), 10x15, 7x15, 7x10	2
Liberty	Commons	Commerce	1,048	14x60, 12x20, 7x10, 18x30, 14x20 , 14x30, 10x20, 10x20, 14x40, 7x50, 7x10, 8x20, 10x30, 10x20, 10x20, 8x40, 8x50, 8x20, 15x100, 7x30, 10x7, 8x30, 8x50, 10x30, 8x50, 10x30, 10x50	2, 7, 10
Grand	Spruce	Illinois	482	7x30, 8x20, 10x20, 10x30, 10x30, 7x20, 7x20, 15x30, 15x30, 7x10, 15x30, 8x10, 10x20, 7x10, 7x30, 7x30, 10x20, 10x30, 10x20	2 and 6
4th St	Ashland	Parker	78	14x30, 7x20, 7x20	3 and 4
Dunhill Ln	Summerlin Dr	Summerlin Dr	163	7x10, 7x20, 7x15, 8x20, 8x15, 7x10 , 10x30, 10x50	3
Melrose	Douglas	5th St	122	7x15, 7x20, 7x35, 7x20, 8x15, 12x30, 7x15	3 and 4
Jackson	Melrose	Parker	129	10x40, 7x20, 10x20, 7x10, 7x15, 10x25	3
Four Seasons Bl	Serendipity	Montgomery Rd	31	14x20	3
Smith St	New York	5th Av	324	7x20, 10x30, 10x25, 12x30, 5x20, 7x10, 8x20, 10x30, 7x10, 8x20, 16x40, 7x20, 5x10, 5x15, 5x20	3 and 7
Parker	Union	H.A Wyeth	241	8x20, 8x30, 5x40, 12x20, 7x20, 8x20, 8x30, 7x30, 7x20, 7x20, 10x30	3
Lancaster Av	Hardin	Downer	327	7x10, 14x80, 5x15, 7x30, 14x50, 7x10, 8x20, 10x20, 7x20, 10x20	4
Russell Av	Charles	West Park	39	10x35	4

2024 CITY WIDE PATCH LIST

STREET	LOCATION		ESTIMATED SQ YD	CLASS D PATCHES (SPECIAL), 3 INCH	Ward
				PAY ITEM #6	#
Commonwealth	New York	Plum St	317	18x50,7x15,10x50,10x30,8x40, 7x15,8x60,7x20	4
Holden	Sard	River	80	14x30,10x30	4
Elmwood	Marseillaise	Kenilworth	56	10x50	4
Randall	Sullivan	Illinois	621	8x35,8x30,8x25,8x20,15x40, 8x30,18x40,8x30,8x25,8x30, 8x20,8x30,8x30,8x20,8x30, 10x25,10x20,8x30,8x30,10x50	4,5,6
West Park	Lake	Morton	256	16x50,8x20,7x20,8x35,9x20, 7x35,7x20,7x10,7x20,10x15	4 and 6
Hardin	Highland	Elmwood	386	14x20,14x50,10x50,7x30,8x40, 14x60,8x20,8x20,10x30	4
Fordham	Downer	Prairie	406	10x20,10x30,10x50,8x20,8x30, 7x30,8x20,10x50,10x30,10x20, 8x35,10x60	4
Commonwealth	Garfield	Prairie	283	7x30,10x40,7x20,7x15,7x20, 10x20,8x15,7x20,8x30,10x50, 7x20,7x30	4
Titworth Ct	North	Center	212	8x20,8x20,15x40,7x30,7x10, 10x20,10x30,7x30	4
Buell	Downer	Southlawn	242	12x50,10x30,10x30,12x20,8x30, 12x30,7x20	4
Iroquois	Illinois	Plum St	86	10x20,8x15,5x30,8x20,7x20	4
Merrimac Pl	Seneca Dr	Seneca Dr	163	7x15,7x20,12x40,12x20,7x20, 12x30	4
Monona	Iroquois	Randall	137	8x40,7x20,7x20,7x30,7x20,8x15, 8x20	4
Douglas	Melrose	Ashland	124	7x50,7x40,7x20,7x30,7x20	4
Western	Prairie	Southlawn	33	12x25	4
Marseillaise	Evanslawn	Edgelawn	378	7x10,7x15,7x20,7x30,7x20,7x20, 7x35,7x15,7x40,7x30,7x20, 7x20,7x30,10x15,8x20,8x15, 7x30,7x40,7x30,7x20	4
Broadway	Hazel	Center	1,493	12x50,14x150,14x480,14x150, 12x30,12x30,12x50,12x50	4
River St	Prairie	Rathbone	118	7x15,7x10,12x30,7x30,7x20, 7x25	4
Constitution	Galena	Illinois	501	14x30,8x30,20x40,20x20,20x30, 10x20,9x40,7x15,8x20,8x20, 7x20,7x15,14x30,8x20,8x30	5
Glenwood Pl	Heather	Hoyt St	218	7x30,7x20,7x20,8x20,7x40,7x40, 8x10,15x45,	5
Bradford Ln	Hermitage	Laurel Dr	132	7x15,14x30,14x30,8x30	5
Almond Dr	Illinois	Coral	122	15x30,15x30,8x25	5
Crestwood Ct	Heather Dr	Heather Dr	54	7x20,14x25	5
Westgate Dr	Wellington Cr	Illinois	103	8x20,7x15,7x15,7x10,7x30,7x10, 7x10,7x20	5
Robert St	Laurel	Richard St	188	8x15,7x30,7x15,7x15,8x15,8x20, 8x10,7x10,7x30,7x30,7x20, 8x20	5
Hoyt	Rosedale	Edgelawn	43	7x20,7x15,7x20	5
Barnes Rd	Midfield	Galena	221	14x35,8x10,14x40,14x30,14x10, 10x30	5
Walden Cr	Foxcroft	Foxcroft	47	7x10,7x40,7x10	5
Indian Trail	Randall	Edgelawn	720	14x30,14x40,14x60,14x40, 14x30,14x40,14x80,8x250	5

2024 CITY WIDE PATCH LIST

STREET	LOCATION		ESTIMATED SQ YD	CLASS D PATCHES (SPECIAL), 3 INCH	Ward
				PAY ITEM #6	#
Edgelawn	Colorado	Indian Trail	96	8x20,14x50	5
Independence	Illinois	Constitution	284	10x30,8x20,8x20,7x15,7x10, 7x30,7x20,7x20,10x20,8x30, 8x20,8x20,7x20,7x20,7x10,8x20	5
Ivy Ln	Redwood	Edgelawn	27	8x30	5
Evanslawn	Illinois	Heather Dr	106	7x20,7x15,8x20,8x20,7x10,7x20, 7x15,7x10	5
Illinois	Randall	Highland	407	14x40,8x60,14x30,14x30,7x30, 7x30,7x50,16x20,10x20,7x20, 7x50	5
Evanslawn	Galena	Marseillaise	144	7x20,12x30,10x10,7x25,7x25, 12x20,7x15	5
Glenwood Pl	Illinois	Marseillaise	118	12x30,7x20,7x10,10x25,12x20	5
Rosedale	Garfield	Downer	47	14x30	5
Greenfield Dr	Illinois	Marigold	114	7x15,7x20,16x40,7x20	5
Manchester Way	Amy	Chatham (North Dead End)	157	14x20, 14x42, 9x25, 7x15, 7x30	5
Palace St	Lawndale	North Park	291	13x40,12x40,7x20,7x20,10x20, 7x20,12x25,7x20,7x20,7x35, 7x25	6
North Park Av	Oak	Highland	134	7x40,10x10,7x10,7x25,8x20, 7x30,7x10,7x20	6
Holiday Dr	Eastwood Dr	Crestwood Dr	66	7x10,7x20,7x35,7x20	6
Crestwood Dr	Robinwood Dr	Robinwood Dr	225	7x15,7x40,5x20,7x30,7x20,7x15, 7x20,7x15,10x15,10x20,7x30, 7x20,7x20	6
Arlon Rd	Elmwood	Eastwood	144	7x20,7x20,7x35,7x15,7x40,7x30, 7x25	6
Sandy Ln	Cloverdale	Calico	61	7x20,7x10,10x20,7x20	6
Hollycrest Av	Sullivan	Springbrook Dr	35	7x30,7x15	6
Plum St	Lake	Grand	183	10x30,7x25,7x20,7x20,8x40, 10x50,7x10	6
Iowa	New Haven	Plum St	74	7x15,7x10,7x20,7x30,7x20	6
Hammond	Old Indian Trail	Plum St	487	10x10,7x15,7x15,7x20,7x10, 7x35,7x15,7x20,7x40,7x40, 13x35,7x20,7x30,7x40,7x25, 7x10,7x15,7x30,7x20,7x10,7x15, 7x15,7x30,7x20,7x10,7x10, 12x10,7x20	6
Morton Av	Roberts	Richard	102	12x20,12x30,8x40	6
Robert St	Lancaster	Morton	196	7x20,8x30,7x25,7x20,7x15,8x30, 12x35,10x30	6
Gladstone	California	Illinois	202	7x15,7x15,14x40,8x30,8x20, 7x30,7x20,10x30	6
Plum	Pennsylvania	View	140	13x60,10x10,8x30,7x20	6
Fordham	Illinois	California	544	14x30,7x30,14x50,14x30,14x30, 7x20,8x20,14x30,7x30,14x30, 14x50,7x10,7x15,10x10,8x20, 8x20,8x10	6
New Haven	Commonwealth	Sheldon	224	14x35,14x30,14x20,7x10,12x40, 7x20,7x20	6
Wilder	Plum	Illinois	157	14x35,7x15,8x20,7x20,7x20, 12x20,7x20	6

2024 CITY WIDE PATCH LIST

STREET	LOCATION		ESTIMATED SQ YD	CLASS D PATCHES (SPECIAL), 3 INCH	Ward
				PAY ITEM #6	#
Eastwood Dr	Arlon	Black Oak Trail	324	12x30,7x20,8x20,12x30,7x25, 7x40,7x35,7x45,8x45,7x20,7x15 , 5x28,5x28	6
Iowa	Illinois	West Park Av	109	7x10,7x10,7x10,8x11,8x30,7x20 ,7x20,8x20	6
Chestnut	Galena	West Park	451	10x40,10x40,10x30,10x20,7x30 ,7x20,7x20,7x30,10x40,10x40, 7x20,14x40,14x40,	6
Liberty	Crane	County Line	678	7x25,7x25,7x30,12x40,12x45, 12x40,12x35,12x30, 12x40,7x30,7x80,12x30,12x30, 7x40,7x50, 7x60,7x35	7
Ryegrass	Spice Bush Ln	Foxtail Dr	18	8x20	7
Ridge	Eola	Cumberland	88	16x20,7x10,7x15,10x30	7
Ohio	Galena	New York	44	10x40	7
Long Grove	Eola (North)	Pineland Ct	119	14x30,10x15,7x15,7x15,10x15, 7x20	8
Village Green Dr	Ogden Av	Long Grove Dr	311	16x50,12x60,7x40,8x20,7x35, 7x35,10x35	8
Shoreline Dr (North)	Frontenac	South End	191	8x20,8x30,10x20,7x20,7x20, 7x30,7x15,10x20,7x15,8x10, 7x20,	8
Hafenrichter	Eola	Middlebury	325	8x20,7x20,12x40,10x25,12x10, 8x20,10x30,8x25,12x30,8x30, 7x25,7x20,10x20	9
Keating	Eola	Middlebury	548	12x40,10x25,8x10,7x10,7x10, 7x15,7x10,7x30,7x20,7x15,7x20 ,7x10,12x30,14x30,7x10,7x20, 7x30,7x20,12x20,12x30,8x20, 7x50,8x40,8x20,7x20,7x10	9
Dorothy Dr	Eola	Kelly Ct	54	8x30,7x20,7x15	9
Turtle Creek Ct	Turtle Creek Dr	Turtle Creek Dr	107	12x80	9
Noggle Ct	Colonial	Colonial	50	7x10,12x20,7x20	9
Lindgren Trl	Shenandoah	Carlsbad Cr	91	7x20,7x10,7x20,8x15,8x10,8x15 ,8x10,7x10	9
Halsted Ln	Savoy Ct	Ellington	75	7x10,7x20,7x15,7x10,7x10,7x10 ,10x15	9
Albany Ct	Halsted Ln	Halsted Ln	31	7x10,7x20,7x10	9
Melbourne Ln	Ellington	Halsted Ln	109	10x20,12x30,7x20,7x15,7x10, 7x15	9
Montrose	Savoy Ct	Melbourne Ln	31	7x20,7x10,7x10	9
Oakfield Ct	Barrington Dr W	Culdesac	335	10x20,7x15,10x80,10x30,10x30 ,10x30,10x25,12x40,7x15,7x10, 7x15	9
Oakfield Dr	Eola	Oakfield Ct	232	7x20,7x20,7x10,7x10,7x20, 12x15,7x20,8x15,13x30,7x40, 7x40,7x20	9
Sunrise Cr	Off of Eola Rd	Off of Eola Rd	461	13x30,12x25,7x15,7x30,7x20, 10x25,8x20,14x20,10x40,14x20 ,9x35,7x20, 7x15,7x10,7x20,7x15,7x20,7x20 ,8x20,7x20,7x25	9
James Leigh Dr	Pine Creek Dr	(East) Keim Dr	188	12x30,7x30,7x15,7x40,7x25, 7x50,7x15,7x15	9
Enterprise Ct	Enterprise St	Enterprise St	91	9x20,12x30,14x10,7x20	10
Oakhurst Dr	Weber	McCoy	159	10x10,10x10,7x20,7x30,8x30, 8x20,7x20,7x20,10x20	10

2024 CITY WIDE PATCH LIST

STREET	LOCATION		ESTIMATED SQ YD	CLASS D PATCHES (SPECIAL), 3 INCH	Ward
				PAY ITEM #6	#
Conservatory Ln	Metropolitan St	Dead End	183	30x30,30x25	10
Molitor	Diehl	Eola	346	7x20,7x30,7x20,7x20,7x30,5x80, 7x35,7x60,7x30,7x40,7x25, 7x20,8x15,14x20	10
Drexel	Station Bl	Rt 59	93	10x20,10x30,8x25,7x20	10
Milford Ln	Station Bl	Station Bl	165	8x15,7x30,7x10,7x20,7x30,7x10, 7x10,7x20,7x20,7x20,7x25	10
Station Bl	Liberty	E New York St	380	10x20,10x30,12x20,8x30,7x20, 7x20,13x30,7x30,7x20,7x20, 7x15,7x20,8x20,7x30,7x15,7x20, 7x30,7x10,7x20	10
Obrien Dr	Conservatory	Oakhurst	39	7x20,7x20,7x10	10
Enterprise St	Liberty	Enterprise Ct	132	17x45,7x35,7x10,7x15	10
Contingency and other locations			2,000		
TOTAL - CLASS D PATCHES			27,122		

NOTES:

- LIST MAY BE SUBJECT TO CHANGE. IF ANY CHANGES ARE MADE, A NEW LIST WILL BE GIVEN TO THE CONTRACTOR BEFORE THE PRE-CON.
- ALL QUANTITIES ARE ESTIMATED AND PAYMENT WILL BE MADE FOR ACTUAL MEASURED WORK COMPLETED.
- WORK COMPLETED OUTSIDE THE ENGINEER'S PRE-MEASURED FIELD MARKINGS / QUANTITIES WILL NOT BE MEASURED FOR PAYMENT, UNLESS THE CONTRACTOR CONTACTS THE ENGINEER FOR PRE-APPROVAL BEFORE THE WORK BEGINS.

2024 CITY WIDE CRACK SEALING LIST

#	STREET	FROM	TO	STREET LENGTH	CRACK ROUTING (FT)	CRACK FILLING (LB)	Completion Date & Final Quantity
					PAY ITEM 33	PAY ITEM 34	
1	Downer	Highland Av	Locust	2,270	9,080	5,448	
2	Eola	Hafenrichter	Shiloh Dr	2,950	11,800	7,080	Only outside lanes
3	Eola	Keating	Hafenrichter	3,590	14,360	8,616	
4	Eola	Ogden Av	Montgomery Rd	2,518	10,072	6,043	
5	Front	High	Ohio	3,000	12,000	7,200	
6	Station Bl/Meridian Pkway	Liberty	Meridian Lake Dr	3,400	13,600	8,160	
7	Commons	Enterprise	Liberty	2,730	10,920	6,552	
8	Keating	Eola	Normantown	5,100	20,400	12,240	
9	Highland	New Haven	Indian Trail	3,200	12,800	7,680	
10	Farnsworth	New York	Dearborn	4,240	16,960	10,176	
11	Benton	Jackson	Smith	3,550	14,200	8,520	
12	Jackson	Ashland	North or 5th Av	4,450	17,800	10,680	
TOTAL					163,992	98,395	

Lane closures shall only be permitted between 8:30 AM to 3:30 PM

Patching shall be completed before crack sealing - See Patching List

Contractor shall verify length of improvement, required traffic control, requirements for posting of Temp. No Parking Signs and all other impacts this work may have on adjacent improvements

Roadway shall be kept clean, swept by 5:00 PM each day

LIST MAY BE SUBJECT TO CHANGE. IF ANY CHANGES ARE MADE, A NEW LIST WILL BE GIVEN TO THE CONTRACTOR AFTER CONTRACTING AND BEFORE THE PRE-CON. IT IS ANTICIPATED THAT THIS LIST WILL BE REDUCED AND NOT ALL OF THESE ROADWAYS WILL BE COMPLETED.

2024 SIDEWALK REMOVAL AND REPLACEMENT																	
				MID-BLOCK										CURB RAMP			
Ward	Street	From	To	Complaints from Specific Addresses (not all inclusive)	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED	NEW SIDEWALK	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DETECTABLE WARNINGS	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED				
					ITEMS 2 & 4	ITEM 9	ITEM 10	ITEM 27	ITEMS 2 & 4	ITEM 3	ITEM 1	ITEM 9	ITEM 10				
					SQ FT	EACH	EACH	SQ FT	SQ FT	SQ FT	FT	EACH	EACH				
1	Colleen Ln	Limerick Dr	Lisa Blvd	1565	75												
1	N. Farnsworth Ave	Molitor Rd	Marshal Blvd	1760 & 1780	1375				150	20	10						
1	Havenshire Rd	Kingsley Ln	Colchester Ln	1705	25				500	80	50						
1	Lehnertz Cr	Sherman St	Sherman St	1143	875												
1	N Lincoln Ave	Edwards St	Rural St	669	125				250	30	20						
1	McClure Rd	Reckinger Rd	Avati Ln (pvt)		300		1		175	30	25						
2	Columbia St	Jefferson St	N Union St	609 & 615	50												
2	Union St	Liberty St	Columbia St	600 Columbia St	50												
2	N Loucks St	Indian Ave	Solfisburg Av	508	50				50	10	10						
2	Front St	N Loucks St	Trask St	1145	125				50	10	10						
2	Solfisburg Ave	Colfax Ave	N Ohio St	957	225												
3	4th Ave	Jackson St	Watson St	550	200				175	10	15						
3	5th St	Linden Ave	Simms St	731	300												
3	Simms St	S Spencer St	Bangs St	612	250												
3	Talma St	Simms St	Binder St	801 & 823	175				350	40	40						
4	Calumet Ave	Kensington Pl	Marseillaise Pl	239	250												
4	W Downer Pl	S Commonwealth Ave	S Elmwood dr	1006 & 1120	175				200	30	30						
4	S Fordham Ave	Kenilworth Pl	Prairie St	402	50												
4	S Lincoln Ave	North Ave	Center Ave	313	225				250	30	20						
4	S River St	Middle Ave	Benton St	140	125												
4	South Ave	Grant Pl	S 4th St	334	175												
4	Spruce St	N Harrison Ave	N Lancaster Ave	819, 824, 827, & 830	375												
5	Almond Dr	Lakespur Ct	Mulberry Ct	830	75												
5	Amy Ln	Manchester Way	Canterbury Rd	2445	400												
5	N Buell Ave	Plum St	Westgate Dr	308	300												
5	Chatham Cr	Dead End	Manchester Way	2526	75												
5	W Illinois Ave	Westgate Dr	N Evanslawn Av	1555	275												
5	Raven Dr	W Downer Pl	Blackberry Tr	87	125												
5	School House Ln	W Downer Pl	Garfield Ave	1928	300												
5	Sumac Dr	Meadowsedge Ln	Dead End	715	75												
6	Cloverdale Pl	Lincolnshire Ave	Hollycrest Ave	740	50												
6	Cottonwood Dr	Golden Oaks Pkwy	Yellowpine Dr	1418	75				450	90	80						
6	Foran Ln	Colorado Ave	New Haven Ave	864	175				400	50	40						

2024 SIDEWALK REMOVAL AND REPLACEMENT													
Ward	Street	From	To	Complaints from Specific Addresses (not all inclusive)	MID-BLOCK				CURB RAMP				
					PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED	NEW SIDEWALK	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DETECTABLE WARNINGS	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED
					ITEMS 2 & 4	ITEM 9	ITEM 10	ITEM 27	ITEMS 2 & 4	ITEM 3	ITEM 1	ITEM 9	ITEM 10
					SQ FT	EACH	EACH	SQ FT	SQ FT	SQ FT	FT	EACH	EACH
6	N Gladstone Ave	California Ave	Victory Ct	859	325								
6	Golden Oaks Pkwy	Eastwood Dr	W Indian Tr	1300 & 1208	250								
6	Huntington Dr	Golden Oaks Pkwy	N Elmwood Dr	1011	125								
6	Iowa Av	W Illinois Ave	Plum St	653	300								
6	New Haven Ave	N View St	Hammond Av	751	75				275	40	40		
7	Bonner Ave	N Ohio St	Trask St	1039	25				225	20	20		
7	Fescue Dr	Westridge Dr	Clarendon Ln	2149	100		1						
7	Liberty St	Crane St	Sartor Ln	1920	25								
7	Saratoga Dr	Asbury Dr	Asbury Dr	414	100								
8	Andover Cir	Montgomery Rd	Montgomer Rd	1218 & 1224	75								
8	Ascot Ln	Breckenridge Dr	Breckenridge Cir	30	100				275	20	10		
8	Birchdale Ln	Meadowbrook Dr	Meadowbrook Dr	1194	75								
8	Carriage Way	Montclare Ct	S Oakhurst Dr	2805	225	1							
8	Cheshire Dr	Adamsway Dr	Millbrook Dr	2249	125				125	10	10		
8	Compton Rd	Village Green Dr	Village Green Dr	2925	50								
8	Compton Rd	Barnstable Ct	Fairfield Ln	3169, 3170, & 3175	350								
8	Cumberland Rd	Crescent Ln	Ridge Ave	1625 & 1635	275								
8	Doncaster Dr	Breckenridge Dr	Breckenridge Dr	2521, 2541, & 2551	275				575	40	60		
8	Forestview Ln	Millbrook Dr	Brookshire Ln	90	425				100	10	10		
8	Lakeside Ct	Lakeside Dr	Dead End	1135	50				250	20	20		
8	Long Grove Ct	Long Grove Dr	Dead End	3020	50								
8	Mayfield Ln	Village Green Dr	Fairfield Ln	442, 448, 461, & 485	350								
8	McCoy Dr	@ Gregory St		SE Corner					75	10	15		
8	Ogden Ave	Village Green Dr	Ogden Av	2900	250								
8	Ravinia Cr	Frontenac St	Frontenac St	3451	225								
8	Red Clover Dr	Baybrook Dr	Amaranth Dr	1145	50								
8	Village Green Dr	Compton Rd	Compton Rd	3195	50								
8	Whiteway Ct	Waterbury Dr	Dead End	2562	25								
9	Avalon Ct	W Barrington Dr	Blossom Ln	2363	175								
9	Capri Dr	Bayfield Dr	Seaview Dr	1983	150		1						
9	Cody Ct	Dead End	Shenandoah Dr	2612	25								
9	Dickens Dr	Frost Dr	Frost Dr	2403, 2451, 2495, & 2497	125								
9	Grayhawk Ct	Dead End	Middlebury Dr	3106	50								
9	James Leigh Dr	Pine Creek Dr	Keim Dr	2076	100								

2024 SIDEWALK REMOVAL AND REPLACEMENT													
Ward	Street	From	To	Complaints from Specific Addresses (not all inclusive)	MID-BLOCK				CURB RAMP				
					PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED	NEW SIDEWALK	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DETECTABLE WARNINGS	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED
					ITEMS 2 & 4	ITEM 9	ITEM 10	ITEM 27	ITEMS 2 & 4	ITEM 3	ITEM 1	ITEM 9	ITEM 10
					SQ FT	EACH	EACH	SQ FT	SQ FT	SQ FT	FT	EACH	EACH
9	Laconia Ln	Quincy Ln	Boothbay Ln	3100	150								
9	Moray Ct	Capri Dr	Dead End	2915, 2935, 2945, & 2960	250				375	40	35		
9	Royal Troon Dr	Wild Dunes Cir	Tahoe Ct	2500	50				150	20	15		
9	Sagamore Cir	Imperial Valley Tr	Imperial Valley Tr	2655	225								
9	Shenandoah Ct	Dead End	Shenandoah Dr	2620	25								
10	Bennett Pl	Roxybury Dr	Pennsbury Ln	3192	150								
10	Cranbrook Cir	Stonebridge Blvd	Stonebridge Blvd	Btwn 1299-1303	250								
10	Gatewood Ln	Sparrow Ct	Princeton Ave	3623	125								
10	Meadow Lakes Blvd	Princeton Ave	Churchill Ln	245	375				125	10	10		
10	Palomino Dr	Shetland Ln	Clara Ave	1588	50								
10	Stockton Ln	Stockton Ct	Stonebridge Blvd	2270	25								
10	Sutton Dr	Stonebridge Blvd	Waterside Dr	2270-2280	50								
10	Woodcrest Ct	Stonebridge Blvd	Dead End	1520	75								
*DT	Galena	Bridge over West Branch Fox River									36		
*DT	W Benton	14 W Benton to the Bridge		14	240								
*DT	W Benton	on Benton St Bridge towards River St		18	80								
*DT	W Galena			229	360								
*DT	W Galena			220	115								
*DT	W Galena	Remove Brick & Replace w/ Concrete		200-244	528								
*DT	E Galena	Over approach to bank		105	196								
*DT	N Lake	Fill in sidewalk where tree was removed		101	28								
*DT	N Lake	Remove stone and replace with concrete. Add 4 pads for flower planters like at Galena & Lincoln		101	732								
*DT	S LaSalle			115-117	230								
*DT	S Lincoln			15	430								
*DT	S Lincoln			3	60								
*DT	E New York	Centered on Wayside Cross entrance area		219	240								
*DT	E New York	North side of NY between Lincoln & LaSalle			144								
*DT	Pinney	Concrete ribbon between street and parking			227								
*DT	S River	Parking Lot C adjacent sidewalk with tree roots		73	28								
*DT	S Stolp			75	50								
*DT	Clark St	Clark side of building, widen from LaSalle toward Broadway into the grass ROW		131 S LaSalle				336					

2024 SIDEWALK REMOVAL AND REPLACEMENT													
W a r d	Street	From	To	Complaints from Specific Addresses (not all inclusive)	MID-BLOCK				CURB RAMP				
					PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED	NEW SIDEWALK	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	DETECTABLE WARNINGS	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMEN T (SPECIAL)	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED	CATCH BASINS TO BE ADJUSTED
					ITEMS 2 & 4	ITEM 9	ITEM 10	ITEM 27	ITEMS 2 & 4	ITEM 3	ITEM 1	ITEM 9	ITEM 10
					SQ FT	EACH	EACH	SQ FT	SQ FT	SQ FT	FT	EACH	EACH
*DT	Clark St	East of LaSalle - widen the area around the gas meter						114					
*DT	Lincoln Ave	NWC or Downer & Lincoln, or just sout of 25 S. Lincoln. Expand into the grass ROW at the gated parking lot		25 S Lincoln				126					
*DT	Lincoln Ave	Gradual fade from 2 ft wide into existing sidewalk		15 S Lincoln				24					
*DT	New York St	Gradual fade from 2 ft; wide into existing sidewalk. Near the utility boxes on New York side.		53 N Broadway				20					
*DT	Spruce St	From corner to drive approach		107 Spruce St				93					
CONTINGENCY AND ADDITIONAL MOBILIZATION WORK					8000	2	2						
			Totals		25,963	3	5	713	5,550	670	631	-	-

TOTALS:

31,513 PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL
670 DETECTABLE WARNINGS
631 COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)
3 DOMESTIC WATER SERVICE BOX TO BE ADJUSTED
5 MANHOLES TO BE ADJUSTED

NOTES:

- LIST MAY BE SUBJECT TO CHANGE. IF ANY CHANGES ARE MADE, A NEW LIST WILL BE GIVEN TO THE CONTRACTOR AFTER CONTRACTING AND BEFORE THE PRE-CON.
- ALL QUANTITIES ARE ESTIMATED AND PAYMENT WILL MADE FOR ACTUAL MEASURED WORK COMPLETED.
- WORK COMPLETED OUTSIDE THE ENGINEER'S PRE-MEASURED FIELD MARKINGS / QUANTITIES WILL NOT BE MEASURED FOR PAYMENT, UNLESS THE CONTRACTOR CONTACTS THE ENGINEER FOR PRE-APPROVAL BEFORE THE WORK BEGINS.
- 8,000 SQ FT ADDITIONAL MOBILIZATION WORK TO BE COMPLETED AT END OF PROJECT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- *DT = SIDEWALK IN THE DOWNTOWN AREA

CITY OF AURORA - 2024 CITY WIDE STRIPING

THERMOPLASTIC PAVEMENT MARKING - VARIOUS LOCATIONS - ONLY REPLACE STRIPING THAT IS NOT VISIBLE, USE SEALER AT ALL LOCATIONS, STRIPE AFTER PATCHING (QUANTITIES ARE ESTIMATE ONLY)					GENERAL SCOPE OF WORK	LINE 4 INCH	LINE 6 INCH	LINE 12 INCH	LINE 24 INCH	LETTERS & SYMBOLS
*	STREET	LOCATION		LENGTH		LF	LF	LF	LF	SQ FT
*	Bilter	Church	County Farm	6065	SD-Y, LL,SB,L/S,DY,C W,SD-W,DW	11,149	2823	114	532	296
	Front	High	Ohio	3020	SB,CW,DY	680	1,640	0	310	0
*	New York	Smith	Ohio	1070	SD-Y, LL,STB,L/S,YY,C WH,SD-W,DW	1,700	779	697	232	89
	Frontenac	Gabrielle	Sand Pebble	1170	ALL	1,112	3,263	376	256	73
*	Prairie	Elmwood	Randall	2690	SD-Y, SB,L/S,YY,DY,C W,CWH,SW,DW	1,385	938	702	400	64
	4th St	North	Parker	5491	SB,DY,CW	1,250	2,690	0	336	0
	Lasalle	North	Galena	2765	SB,DY,CW,SD-W	975	1,346	0	130	0
	Jackson	Ashland	Melrose	1713	SB,YY,DY,CW,C WH	1,876	78	438	140	0
	Big Woods Rd	Dupage Pkway	White Barn Rd	1,680	SB,YY,DY,CW,C WH	3,406	470	0	75	96
	Village Green Dr	Long Grove	Rt 34	1,780	LL,SB,L/S,YY,CW H,DW	2,830	108	384	100	30
*	Reckinger	Farnsworth	Felten Rd	3,184	LL,SB,L/S,YY,CW ,CWH,SD-W.DW	8,275	380	258	228	30
	Keating	Eola	Normantown	5,332	SD-Y, LL,SB,L/S,YY,CW ,DW	10,977	1,057	664	104	286
	Douglas	Melrose	Ashland	2,065	SB,YY,CW.CWH	3,576	76	60	296	0
	Pennsylvania	West Park	Lawndale	2,963	SB,CW,CWH	0	374	120	91	0
	Long Grove Rd	Eola (North)	Fox Hill Rd W	2,778	SD-Y , LL,SB,L/S,YY,DY, CW.CWH,DW	4,832	1,273	406	280	225
	Sullivan	Edgelawn	Randall	2,695	SD-Y , LL,SB,L/S,YY,CW H,SW,DW	11,080	315	438	71	136
	Sheridan	Sheffer	Rural	2,100	SB,YY,DY,CW,C WH	650	588	78	33	0
	Farnsworth Ave	S of Indian Trail	*See Exhibit	200	*See Exhibit	170	55			31.2
Utility Projects (Replace Markings)										
	Hoyles & Jackson	5th	Jackson	1,176	CW,DY,SB	60	130	0	0	0
		5th	300' N of 5th							
	Marion,Lafayette,Se minary	Lincoln	230' east of Lincoln	1,408	SB,CW,CHW,DY	10	577	59	69	0
		4th St	Lafayette							
		Marion	Evans							
		4th St	230' east of 4th							
	Lebanon & Pearl	Ashland	400' N of Ashland	1,510	SB,CW,DY	10	278	0	30	0
		Ashland	800' N of Ashland							
	Keating	Middlebury	Normantown	888	SB,CHW,YY,LL	801	0	20	22	0
	5th St WM	Clark	Benton St	152	CW,SB,DW	20	239	0	30	0
	State St	6th Ave	Schomer Ave	643	CHW.SB	0	0	30	0	0
	Best & Greenwood	Greenwood	Linda	1,480	CW,CWH	0	163	0	19	
		Best	Lilac							
	Heathercrest	Edgelawn	Randall	6,600	SB,CW	0	1,108	54	72	0
		Heather	Edgelawn							
		Heather	Roanoak							
		Sherwood	Evanslawn							
	Contingency					7,000	2,000	500	400	100
	THERMOPLASTIC TOTALS					73,824	22,748	5,398	4,256	1,456
	THERMO GROOVING TOTALS					22,509	4,920	1,771	1,392	479

MODIFIED URETHANE PAVEMENT MARKING (on concrete pavement)				GENERAL SCOPE OF WORK	LINE 4 INCH	LINE 6 INCH	LINE 12 INCH	LINE 24 INCH	LETTERS & SYMBOLS
*	STREET	LOCATION	LENGTH		LF	LF	LF	LF	SQ FT
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT FARNSWORTH AVE		SB,CW		400	200		
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT RIDGE AVE / WATERFORD DR		SB,CW		322	142		
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT MONTGOMERY RD		SB,CWH			633		
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT FOX VALLEY DR		SB,CW		154	48		
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT EOLA RD		SB,CW,CWH		1,080	1,382		
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT LONG GROVE DR		SB,CW,CWH		300	366		
	OGDEN (US 34)	STOP BARS / CROSSWALKS AT FRONTENAC ST		SB,CW,CHW		436	522		
	EOLA RD	MID-INTERSECTION DUAL LEFT SKIP-DASHES AT NEW YORK ST		DW	75				
	Contingency				100	300	300	100	100
MODIFIED URETHANE TOTALS					175	2,992	3,593	100	100
URETHANE GROOVING TOTALS					0	0	0	0	0

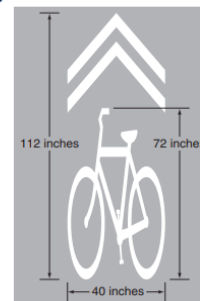
NOTES:

- LIST MAY BE SUBJECT TO CHANGE. IF ANY CHANGES ARE MADE, A NEW LIST WILL BE GIVEN TO THE CONTRACTOR BEFORE THE PRE-CON.
- ALL QUANTITIES ARE ESTIMATED AND PAYMENT WILL MADE FOR ACTUAL MEASURED WORK COMPLETED.
- *STREETS MARKED WITH AN ASTERISK TO INCLUDE GROOVING FOR ALL LINE TYPES
- IF ANY SHARROW MARKINGS ARE ENCOUNTERED, THEY SHALL BE POURED HOT IN-PLACE THERMOPLASTIC WITH A STENCIL, AND SHALL MATCH FIGURTE 9C-9 OF THE MUTCD (SEE IMAGE BELOW).
- IF ANY BIKE LANE SYMBOLS ARE ENCOUNTERED, THEY SHALL BE POURED HOT IN-PLACE THERMOPLASTIC WITH A STENCIL.

ABBREVIATIONS:

SD-Y	solid yellow
LL	lane line
SB	stop bar
L/S	Letters/symbols
YY	double yellow
DY	dashed yellow
CW	cross walk
CWH	cross walk hatches
SD-W	solid white
DW	dashed white

Figure 9C-9. Shared Lane Marking





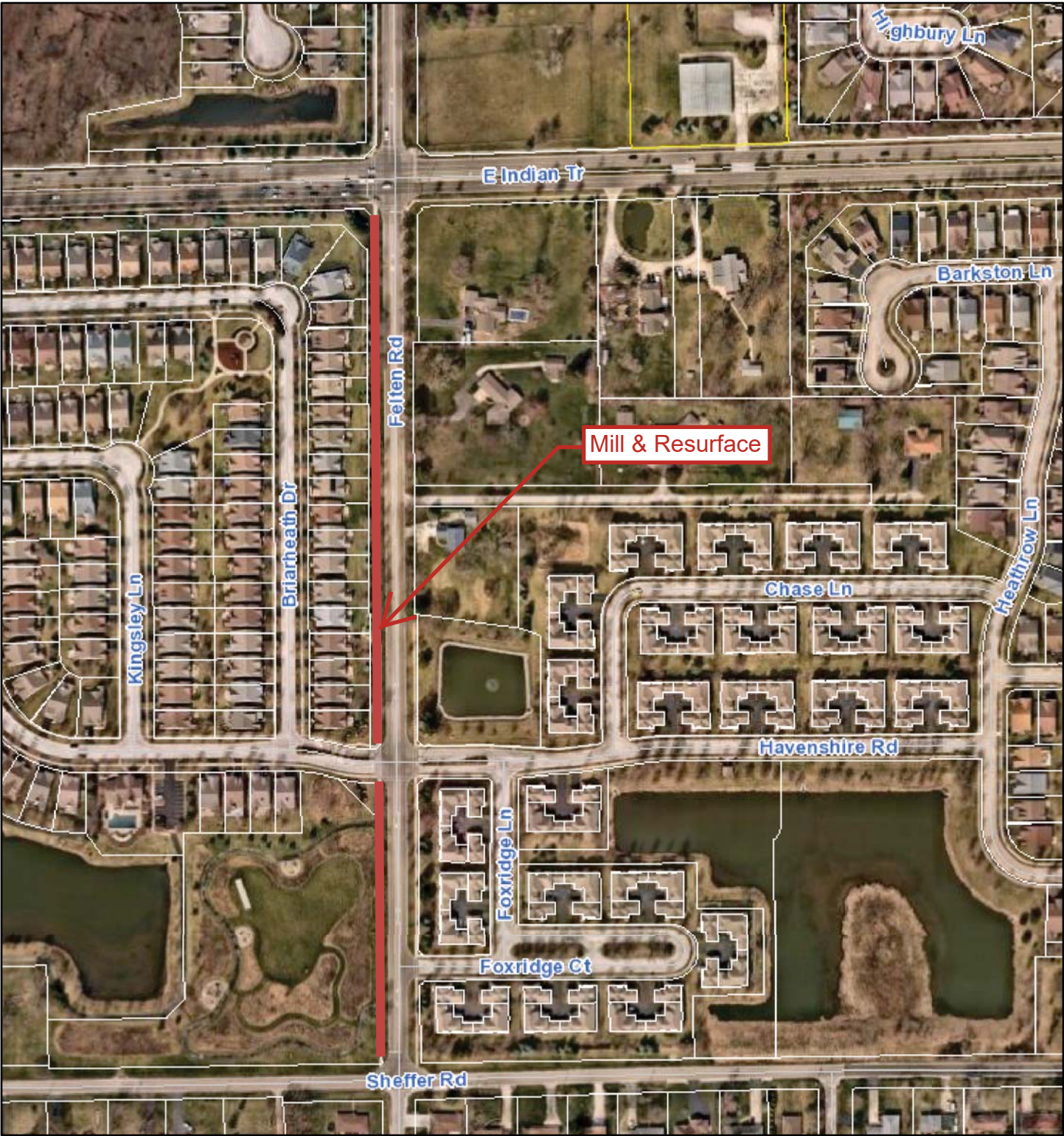
2024 HMA BIKE PATH OVERLAY

Bike Path Overlay (width varies 8' to 12', verify in field)				Length	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL and REPLACEMENT	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	DETECTABLE WARNINGS	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	PREPARATION OF BASE	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, BIKE PATH	CLASS D PATCHES, TYPE I, 2"
					SQ FT	FOOT	SQ FT	SQ YD	SQ YD	POUND	TON	SQ YD
STREET	LOCATION		Ward	Pay Item	2 & 4	1	3	5	29	7	8	30
Felten Rd	Indian Trail	Sheffer Rd	1	1,585				1409		634	158	
Waterford Dr	5th Ave	Waubonsee Creek Trail	3&7	4,646	600	60	48	1784	1,784	803	200	235
Shenandoah Dr	Vicksburg Ln	Lundquist Dr	9	880	400	40	30	156	156	352	88	
Wolf's Crossing Rd	Eola Rd	Hoffman Bl	9									65
Hoffman Bl	Wolf's Crossing Rd	Shenandoah Dr	9									15
Prairie St	Meadowsedge Ln	BNSF Railroad	5									64
TOTAL				7,111	1,000	100	78	3,349	1,940	1,789	446	379

NOTES:

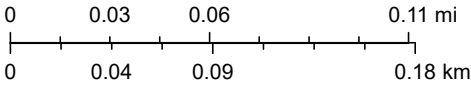
- LIST MAY BE SUBJECT TO CHANGE. IF ANY CHANGES ARE MADE, A NEW LIST WILL BE GIVEN TO THE CONTRACTOR AFTER CONTRACTING AND BEFORE THE PRE-CON.
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- WORK COMPLETED OUTSIDE THE ENGINEER'S PRE-MEASURED FIELD MARKINGS / QUANTITIES WILL NOT BE MEASURED FOR PAYMENT, UNLESS THE CONTRACTOR CONTACTS THE ENGINEER FOR PRE-APPROVAL BEFORE THE WORK BEGINS.
- TACK COAT SHOULD BE PLACED VIA A PRESSURE DISTRIBUTOR THAT MEETS ARTICLE 1102.05 OF THE STANDARD SPECIFICATIONS.

Felten Rd Bike Path



5/24/2024, 7:28:37 AM

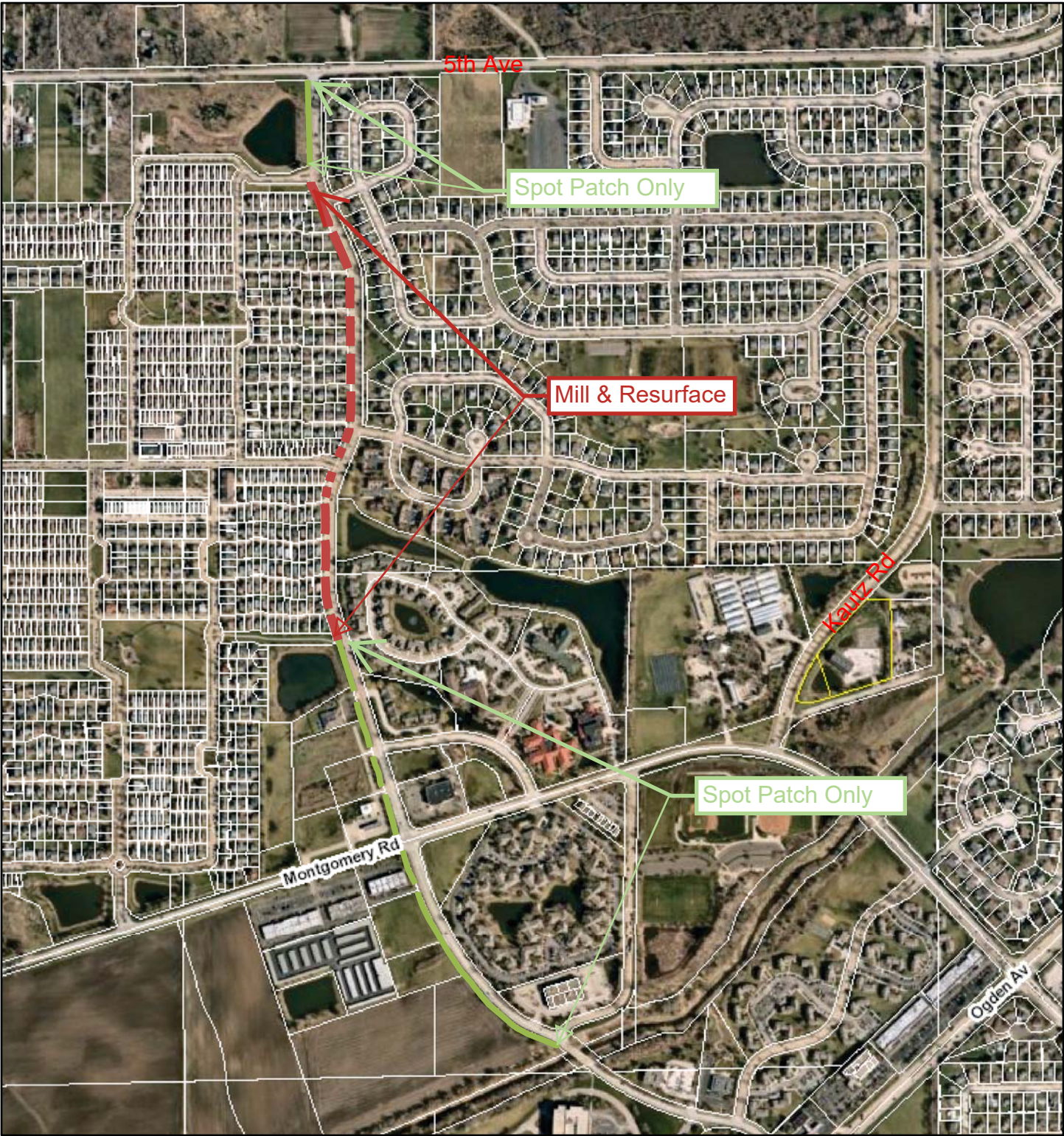
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- Centerlines
- Fox River
- Parcels
- COA Owned Parcels

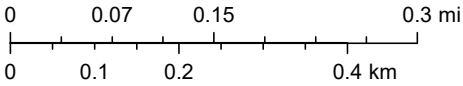
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Waterford Dr Bike Path



5/24/2024, 7:51:15 AM

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MajorStreets



Fox River

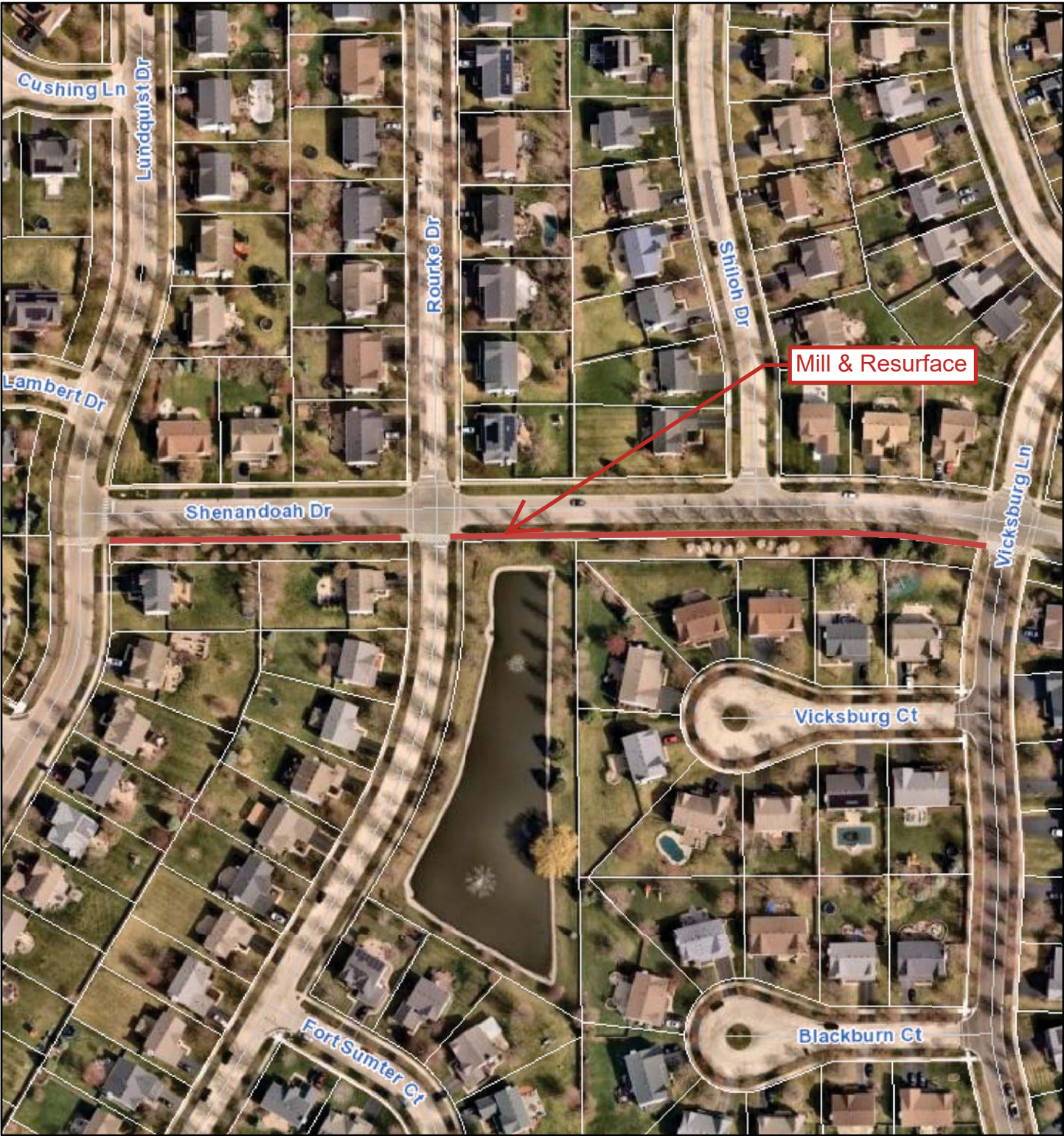
Parcels



COA Owned Parcels

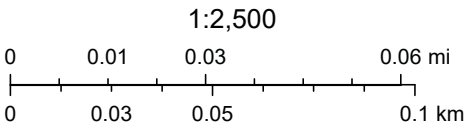
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Shenandoah Dr Bike Path



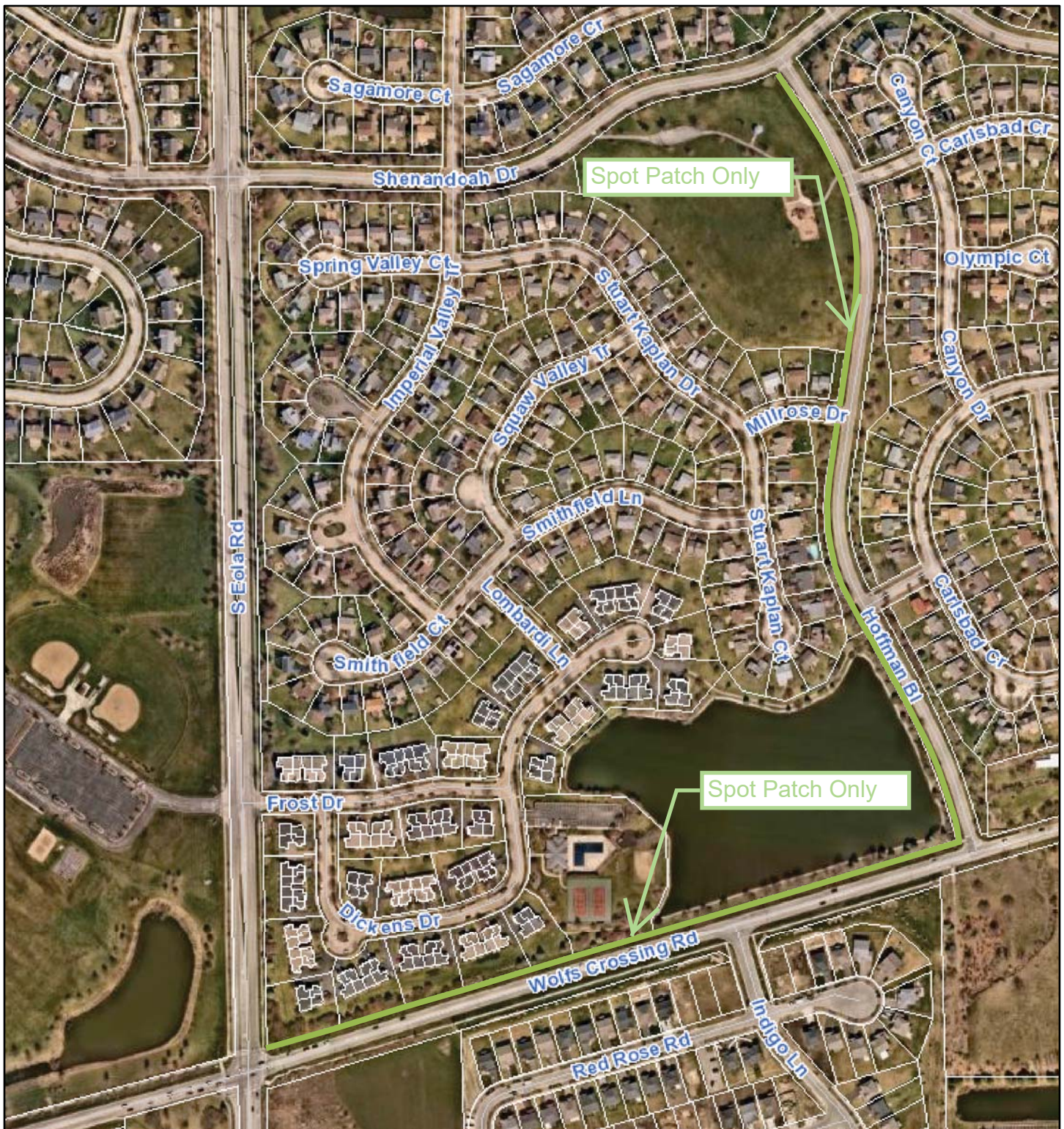
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- Centerlines
- Fox River
- Parcels
- COA Owned Parcels



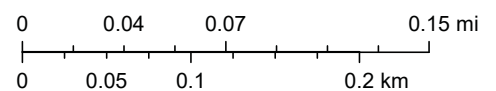
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Wolf's Crossing & Hoffman Bike Path



5/24/2024, 8:00:30 AM

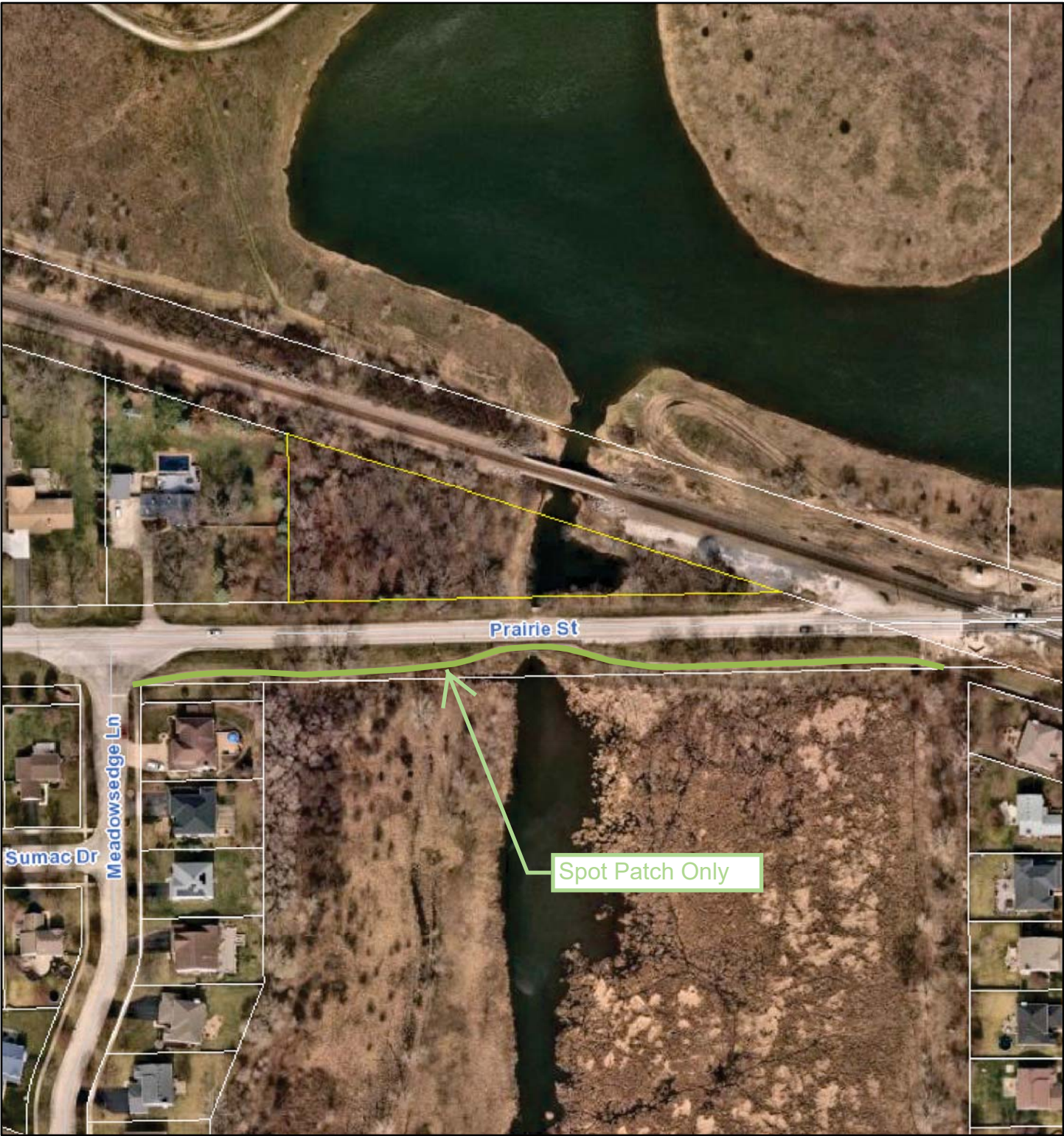
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- Centerlines
- Fox River
- Parcels
- COA Owned Parcels

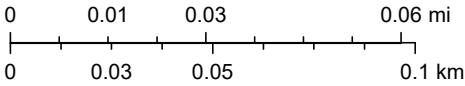
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Prairie St Bike Path



5/24/2024, 8:05:32 AM

1:2,500



- Centerlines
- Fox River
- Parcels
- COA Owned Parcels

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2024 North Ave Improvements										
				Length	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL and REPLACEMENT	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	COMB CONCRETE CURB AND GUTTER B-6.12	DETECTABLE WARNINGS	CLASS D PATCHES, 3" (SPECIAL)	PCC DRIVEWAY PAVEMENT, 6 INCH
					SQ FT	FOOT	FOOT	SQ FT	SQ YD	SQ YD
STREET	LOCATION		Ward	Pay Item	2 & 4	1	31	3	6	32
North Ave	Ohio St	Hill Ave	3	712	3760	35	712	10	316	111
TOTAL				712	3,760	35	712	10	316	111



4' wide HMA Patch

New B-6.12 CC&G

North Ave

Hill Ave

Ohio St

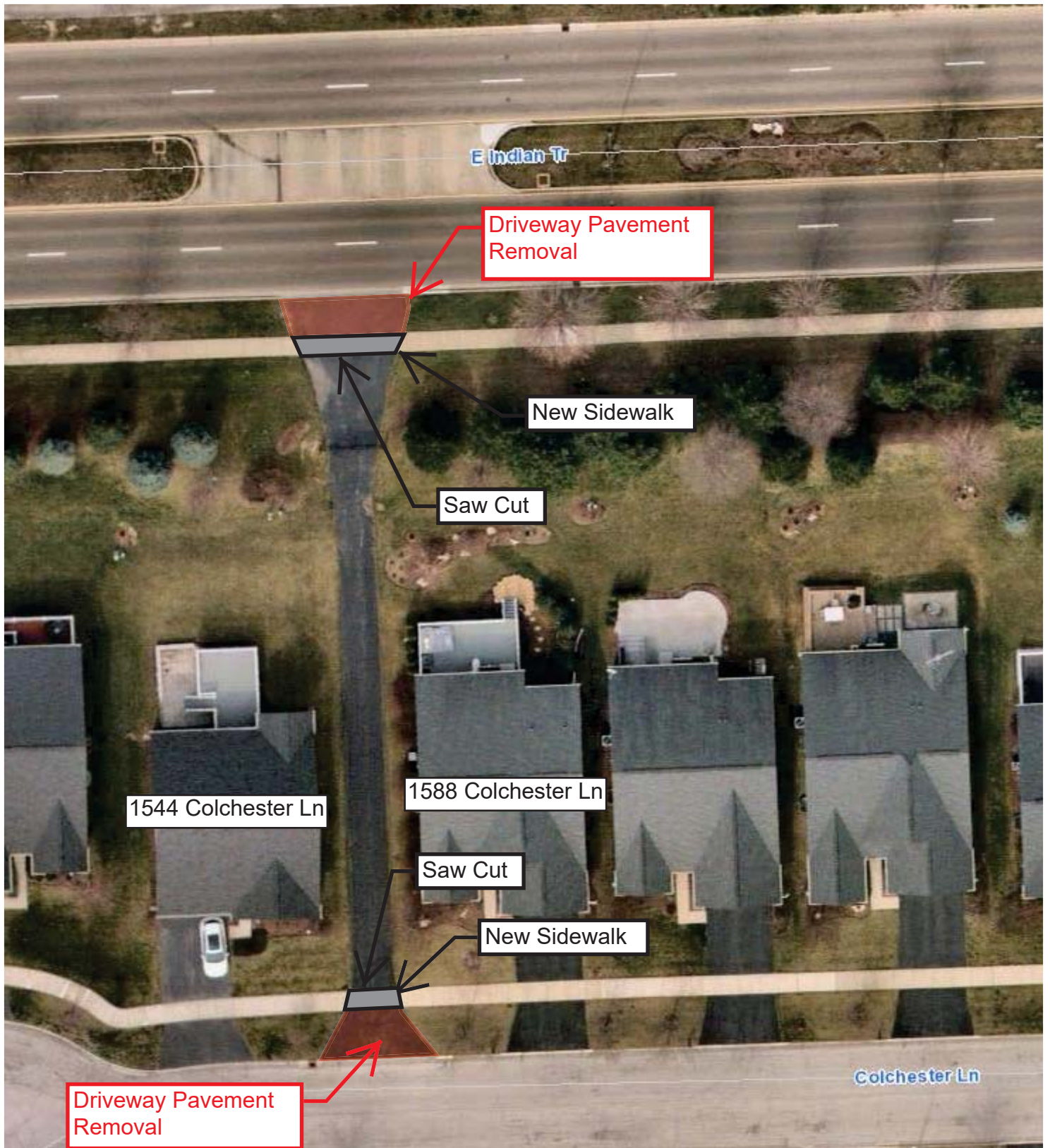
Sidewalk R&R (5" PCC, 6" through driveways)

PCC Driveway (typ all driveways in limits)

Notes:
Storm Sewer to be constructed by others under separate contract.
Grades to be provided by the Engineer at a later date

2024 DRIVEWAY & SPECIALTY REMOVAL & REPLACEMENT

LOCATIONS			DRIVEWAY PAVEMENT REMOVAL	PORTLAND CEMENT CONCRETE SIDEWALK, 5"; SIDEWALK REMOVAL	COMB CONCRETE CURB AND GUTTER REMOVAL & REPLACEMENT (SPECIAL)	PCC DRIVEWAY PAVEMENT, 6 INCH	NEW SIDEWALK
			SQ FT	SQ FT	FT	SQ YD	SQ FT
STREET	LOCATION	Ward	28	2 & 4	1	32	27
INDIAN TRAIL	1100' EAST OF FARNSWORTH AVE	1	455				130
COLCHESTER LN (N)	850' WEST OF HAENSHIRE LN	1	340				67
NEW YORK ST	1116 E NEW YORK ST DRIVEWAYS	7	200	650	100	22	
TOTAL			995	650	100	22	197



INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2024

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-24)

SUPPLEMENTAL SPECIFICATIONS

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204 Borrow and Furnished Excavation	2
207 Porous Granular Embankment	3
211 Topsoil and Compost	4
407 Hot-Mix Asphalt Pavement (Full-Depth)	5
420 Portland Cement Concrete Pavement	6
502 Excavation for Structures	7
509 Metal Railings	8
540 Box Culverts	9
542 Pipe Culverts	29
586 Granular Backfill for Structures	34
630 Steel Plate Beam Guardrail	35
644 High Tension Cable Median Barrier	36
665 Woven Wire Fence	37
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801 Electrical Requirements	40
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RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an “X” are applicable to this contract and are included by reference:

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Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
City of Aurora	Kane	2024 ROW Maintenance Program

☐ **Check this box for lettings prior to 01/01/2024.**

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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16	<input type="checkbox"/>	Reserved	103
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18	<input type="checkbox"/>	Temporary Portable Bridge Traffic Signals	106
19	<input type="checkbox"/>	Nighttime Inspection of Roadway Lighting	108
20	<input type="checkbox"/>	English Substitution of Metric Bolts	109
21	<input type="checkbox"/>	Calcium Chloride Accelerator for Portland Cement Concrete	110
22	<input type="checkbox"/>	Quality Control of Concrete Mixtures at the Plant	111
23	<input checked="" type="checkbox"/>	Quality Control/Quality Assurance of Concrete Mixtures	119
24	<input type="checkbox"/>	Reserved	135
25	<input type="checkbox"/>	Reserved	136
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27	<input type="checkbox"/>	Restoring Bridge Approach Pavements Using High-Density Foam	138
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29	<input type="checkbox"/>	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	145
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Local Public Agency	County	Section Number
City of Aurora	Kane	2024 ROW Maintenance Program

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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ADJUSTMENTS AND RECONSTRUCTIONS (D1)

Effective: March 15, 2011

Revised: October 1, 2021

Revise the first paragraph of Article 602.04 to read:

“602.04 Concrete. Cast-in-place concrete for structures shall be constructed of Class SI concrete according to the applicable portions of Section 503. Cast-in-place concrete for pavement patching around adjustments and reconstructions shall be constructed of Class PP-2 concrete, unless otherwise noted in the plans, according to the applicable portions of Section 1020.”

Revise the third, fourth and fifth sentences of the second paragraph of Article 602.11(c) to read:

“Castings shall be set to the finished pavement elevation so that no subsequent adjustment will be necessary, and the space around the casting shall be filled with Class PP-2 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b.”

Revise Article 603.05 to read:

“603.05 Replacement of Existing Flexible Pavement. After the castings have been adjusted, the surrounding space shall be filled with Class PP-2 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b.”

Revise Article 603.06 to read:

“603.06 Replacement of Existing Rigid Pavement. After the castings have been adjusted, the pavement and HMA that was removed, shall be replaced with Class PP-2 concrete, unless otherwise noted in the plans, not less than 9 in. (225 mm) thick. The pavement may be opened to traffic according to Article 701.17(e)(3)b.

The surface of the Class PP concrete shall be constructed flush with the adjacent surface.”

Revise the first sentence of Article 603.07 to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.”

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (D1)

Effective: April 1, 2011

Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

- “(i) Temporary Hot-Mix Asphalt (HMA) Ramp (Note 1) 1030
- “(j) Temporary Rubber Ramps (Note 2)

Note 1. The HMA shall have maximum aggregate size of 3/8 in. (95 mm).

Note 2. The rubber material shall be according to the following.

Property	Test Method	Requirement
Durometer Hardness, Shore A	ASTM D 2240	75 ±15
Tensile Strength, psi (kPa)	ASTM D 412	300 (2000) min
Elongation, percent	ASTM D 412	90 min
Specific Gravity	ASTM D 792	1.0 - 1.3
Brittleness, °F (°C)	ASTM D 746	-40 (-40)”

Revise Article 603.07 of the Standard Specifications to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.

When castings are under traffic before the final surfacing operation has been started, properly sized temporary ramps shall be placed around the drainage and/or utility castings according to the following methods.

- (a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft (600 mm) around the entire surface of the casting.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

Dimension	Requirement
Inside Opening	Outside dimensions of casting + 1 in. (25 mm)

Thickness at inside edge	Height of casting $\pm 1/4$ in. (6 mm)
Thickness at outside edge	1/4 in. (6 mm) max.
Width, measured from inside opening to outside edge	8 1/2 in. (215 mm) min

Placement shall be according to the manufacturer's specifications.

Temporary ramps for castings shall remain in place until surfacing operations are undertaken within the immediate area of the structure. Prior to placing the surface course, the temporary ramp shall be removed. Excess material shall be disposed of according to Article 202.03."

FRICITION AGGREGATE (D1)

Effective: January 1, 2011

Revised: December 1, 2021

Revise Article 1004.03(a) of the Standard Specifications to read:

“1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete
HMA Low ESAL	Stabilized Subbase or Shoulders	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L SMA Binder	<u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/}

Use	Mixture	Aggregates Allowed	
HMA High ESAL Low ESAL	C Surface and Binder IL-9.5 IL-9.5FG or IL-9.5L	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}	
HMA High ESAL	D Surface and Binder IL-9.5 or IL-9.5FG	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/}	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		25% Limestone	Dolomite
		50% Limestone	Any Mixture D aggregate other than Dolomite
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone
HMA High ESAL	E Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crushed Gravel Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>

Use	Mixture	Aggregates Allowed	
		50% Dolomite ^{2/}	Any Mixture E aggregate
		75% Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone
		75% Crushed Gravel ^{2/}	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag
HMA High ESAL	F Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> ^{5/ 6/} :	
		Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		50% Crushed Gravel ^{2/} or Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

1/ Crushed steel slag allowed in shoulder surface only.

2/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80.

3/ Crushed concrete will not be permitted in SMA mixes.

4/ Crushed steel slag shall not be used as binder.

5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."

6/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

HAMBURG WHEEL AND TENSILE STRENGTH RATIO TESTING (D1 LR)

Effective: December 1, 2020

Revised: December 1, 2021

Revise the second and third paragraph of Article 1030.05 (d) of the Standard Specifications to read:

“High ESAL mixture designs shall meet the following requirements for tensile strength, TSR and Hamburg wheel criteria.

If a mix design fails the Department's verification testing, the Contractor shall make necessary changes to the mix and provide passing volumetric, tensile strength, TSR and Hamburg wheel procedure results before resubmittal. The Department will verify the passing results.”

Add to the end of Article 1030.05 (d)(3) of the Standard Specifications to read:

“ During mixture design, prepared samples shall be submitted to the District laboratory by the Contractor for verification testing. The required testing, and number and size of prepared samples submitted, shall be according to the following tables.

High ESAL – Required Samples for Verification Testing	
Mixture	Hamburg Wheel Testing ^{1/ 2/}
Binder	total of 3 - 160 mm tall bricks
Surface	total of 4 - 160 mm tall bricks

1/ The compacted gyratory bricks for Hamburg wheel testing shall be 7.5 ± 0.5 percent air voids.

2/ If the Contractor does not possess the equipment to prepare the 160 mm tall brick(s), twice as many 115 mm tall compacted gyratory bricks will be acceptable.

Delete Article 1030.05(d)(4) of the Standard Specifications.

Revise the fourth paragraph of Article 1030.10 of the Standard Specifications to read:

“When a test strip is not required, each HMA mixture shall still be sampled on the first day of production: Hamburg wheel testing for High ESAL. Within two working days after sampling the mixture, the Contractor shall deliver gyratory cylinders to the District laboratory for Department verification testing. The High ESAL mixture test results shall meet the requirements of Articles 1030.05(d)(3) and 1030.05(d)(4). The required number and size of prepared samples submitted

for the Hamburg wheel and I-FIT testing shall be according to the “High ESAL - Required Samples for Verification Testing” table in Article 1030.05(d)(3) above.”

Revise the tenth paragraph of Article 1030.10 of the Standard Specifications to read:

“Upon notification by the Engineer of a failing Hamburg wheel test, the Contractor shall immediately resample and the Department will test. Paving may continue as long as all other mixture criteria is being met. If the second set of Hamburg wheel test fail, no additional mixture shall be produced until the Engineer receives passing Hamburg wheel tests.”

Add the following to the end of Article 1030.10 of the Standard Specifications to read:

“Mixture sampled during the first day of production shall include approximately 60 lb (27 kg) of additional material for the Department to conduct Hamburg wheel testing. Within two working days after sampling, the Contractor shall deliver prepared samples to the District laboratory for verification testing. The required number and size of prepared samples submitted for the Hamburg wheel testing shall be according to the “High ESAL - Required Samples for Verification Testing” table in Article 1030.05(d)(3) above.”

HOT-MIX ASPHALT BINDER AND SURFACE COURSE (D1)

Effective: November 1, 2019

Revised: December 1, 2021

Revise Article 1004.03(c) to read:

“(c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

Use	Size/Application	Gradation No.
Class A-1, A-2, & A-3	3/8 in. (10 mm) Seal	CA 16 or CA 20
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & A-3	Cover Coat	CA 14
HMA High ESAL	IL-19.0; Stabilized Subbase IL-19.0	CA 11 ^{1/}
	SMA 12.5 ^{2/}	CA 13 ^{4/} , CA 14, or CA 16
	SMA 9.5 ^{2/}	CA 13 ^{3/4/} or CA 16 ^{3/}
	IL-9.5	CA 16, CM 13 ^{4/}
	IL-9.5FG	CA 16
HMA Low ESAL	IL-19.0L	CA 11 ^{1/}
	IL-9.5L	CA 16

1/ CA 16 or CA 13 may be blended with the CA 11.

2/ The coarse aggregates used shall be capable of being combined with the fine aggregates and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ The specified coarse aggregate gradations may be blended.

4/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.”

Revise Article 1004.03(e) of the Supplemental Specifications to read:

“(e) Absorption. For SMA the coarse aggregate shall also have water absorption
≤ 2.0 percent.”

Revise the “High ESAL” portion of the table in Article 1030.01 to read:

“High ESAL	Binder Courses	IL-19.0, IL-9.5, IL-9.5FG, IL-4.75, SMA 12.5, Stabilized Subbase IL-19.0
	Surface Courses	IL-9.5, IL-9.5FG, SMA 12.5, SMA 9.5”

Revise Note 2. and add Note 6 to Article 1030.02 of the Standard Specifications to read:

“Item	Article/Section
(g) Performance Graded Asphalt Binder (Note 6)	1032
(h) Fibers (Note 2)	

Note 2. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 6. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be a SBS PG 76-22 for IL-4.75, except where modified herein..”

Revise table in Article 1030.05(a) of the Standard Specifications to read:

"MIXTURE COMPOSITION (% PASSING)" ^{1/}												
Sieve Size	IL-19.0 mm		SMA 12.5		SMA 9.5		IL-9.5mm		IL-9.5FG		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max	min	max
1 1/2 in. (37.5 mm)												
1 in. (25 mm)		100										
3/4 in. (19 mm)	90	100		100								
1/2 in. (12.5 mm)	75	89	80	100		100		100		100		100
3/8 in. (9.5 mm)				65	90	100	90	100	90	100		100
#4 (4.75 mm)	40	60	20	30	36	50	34	69	60	75 ^{6/}	90	100
#8 (2.36 mm)	20	42	16	24 ^{4/}	16	32 ^{4/}	34 ^{5/}	52 ^{2/}	45	60 ^{6/}	70	90
#16 (1.18 mm)	15	30					10	32	25	40	50	65
#30 (600 μm)			12	16	12	18			15	30		
#50 (300 μm)	6	15					4	15	8	15	15	30
#100 (150 μm)	4	9					3	10	6	10	10	18
#200 (75 μm)	3.0	6.0	7.0	9.0 ^{3/}	7.5	9.5 ^{3/}	4.0	6.0	4.0	6.5	7.0	9.0 ^{3/}
#635 (20 μm)			≤ 3.0		≤ 3.0							
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0		1.0

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

4/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.

- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.
- 6/ When the mixture is used as a binder, the maximum shall be increased by 0.5 percent passing.”

Revise Article 1030.05(b) of the Standard Specifications to read:

- (b) Volumetric Requirements. The target value for the air voids of the HMA shall be 4.0 percent, for IL-4.75 and SMA mixtures it shall be 3.5 percent and for Stabilized Subbase it shall be 3.0 percent at the design number of gyrations. The voids in the mineral aggregate (VMA) and voids filled with asphalt binder (VFA) of the HMA design shall be based on the nominal maximum size of the aggregate in the mix and shall conform to the following requirements.

Mix Design	Voids in the Mineral Aggregate (VMA), % Minimum for Ndesign				
	30	50	70	80	90
IL-19.0		13.5	13.5		13.5
IL-9.5		15.0	15.0		
IL-9.5FG		15.0	15.0		
IL-4.75 ^{1/}		18.5			
SMA-12.5 ^{1/2/5/}				17.0 ^{3/} /16.0 ^{4/}	
SMA-9.5 ^{1/2/5/}				17.0 ^{3/} /16.0 ^{4/}	
IL-19.0L	13.5				
IL-9.5L	15.0				

- 1/ Maximum draindown shall be 0.3 percent according to Illinois Modified AASHTO T 305.
- 2/ The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30°F.
- 3/ Applies when specific gravity of coarse aggregate is ≥ 2.760 .
- 4/ Applies when specific gravity of coarse aggregate is < 2.760 .
- 5/ For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone”

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

“IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steel slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours.”

Add after third sentence of Article 1030.09(b) to read:

“If the Contractor and Engineer agree the nuclear density test method is not appropriate for the mixture, cores shall be taken at random locations determined according to the QC/QA document "Determination of Random Density Test Site Locations". Core densities shall be determined using the Illinois Modified AASHTO T 166 or T 275 procedure.”

Revise Table 1 and Note 4/ of Table 1 in Article 406.07(a) of the Standard Specifications to read:

	Breakdown/Intermediate Roller (one of the following)	Final Roller (one or more of the following)	Density Requirement
IL-9.5, IL-9.5FG, IL-19.0 ^{1/}	V _D , P, T _B , 3W, O _T , O _B	V _S , T _B , T _F , O _T	As specified in Section 1030
IL-4.75 and SMA ^{3/ 4/}	T _B , 3W, O _T	T _F , 3W	As specified in Section 1030
Mixtures on Bridge Decks ^{2/}	T _B	T _F	As specified in Articles 582.05 and 582.06.

“4/ The Contractor shall provide a minimum of two steel-wheeled tandem rollers (T_B), and/or three-wheel (3W) rollers for breakdown, except one of the (T_B) or (3W) rollers shall be 84 inches (2.14 m) wide and a weight of 315 pound per linear inch (PLI) (5.63 kg/mm) and one of the (T_B) or (3W) rollers can be substituted for an oscillatory roller (O_T). T_F rollers shall be a minimum of 280 lb/in. (50 N/mm). The 3W and T_B rollers shall be operated at a uniform speed not to exceed 3 mph (5 km/h), with the drive roll for T_B rollers nearest the paver and maintain an effective rolling distance of not more than 150 ft (45 m) behind the paver.”

Add the following after the fourth paragraph of Article 406.13 (b):

“The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design’s G_{mb}.”

Revise first paragraph of Article 1030.10 of the Standard Specifications to read:

“A test strip of 300 ton (275 metric tons), except for SMA mixtures it will be 400 ton (363 metric ton), will be required for each mixture on each contract at the beginning of HMA production for each construction year according to the Manual of Test Procedures for Materials “Hot Mix Asphalt Test Strip Procedures”. At the request of the Producer, the Engineer may waive the test strip if previous construction during the current construction year has demonstrated the constructability of the mix using Department test results.”

Revise third paragraph of Article 1030.10 of the Standard Specifications to read:

“When a test strip is constructed, the Contractor shall collect and split the mixture according to the document “Hot-Mix Asphalt Test Strip Procedures”. The Engineer, or a representative, shall deliver split sample to the District Laboratory for verification testing. The Contractor shall complete mixture tests stated in Article 1030.09(a). Mixture sampled shall include enough material for the Department to conduct mixture tests detailed in Article 1030.09(a) and in the document “Hot-Mix Asphalt Mixture Design Verification Procedure” Section 3.3. The mixture test results shall meet the requirements of Articles 1030.05(b) and 1030.05(d), except Hamburg wheel tests will only be conducted on High ESAL mixtures during production.”

BDE SPECIAL PROVISIONS
For the April 26 and June 14, 2024 Lettings

The following special provisions indicated by a “check mark” are applicable to this contract and will be included by the Project Coordination and Implementation Section of the Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised
	80099	1	<input type="checkbox"/> Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
	80274	2	<input type="checkbox"/> Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
	80192	3	<input type="checkbox"/> Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
	80173	4	<input type="checkbox"/> Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	<input type="checkbox"/> Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
*	80241	6	<input type="checkbox"/> Bridge Demolition Debris	July 1, 2009	
*	50531	7	<input type="checkbox"/> Building Removal	Sept. 1, 1990	Aug. 1, 2022
*	50261	8	<input type="checkbox"/> Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
	80449	9	<input type="checkbox"/> Cement, Type IL	Aug. 1, 2023	
	80384	10	<input checked="" type="checkbox"/> Compensable Delay Costs	June 2, 2017	April 1, 2019
*	80198	11	<input type="checkbox"/> Completion Date (via calendar days)	April 1, 2008	
*	80199	12	<input type="checkbox"/> Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80453	13	<input type="checkbox"/> Concrete Sealer	Nov. 1, 2023	
	80261	14	<input type="checkbox"/> Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80434	15	<input type="checkbox"/> Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
*	80029	16	<input type="checkbox"/> Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
	80229	17	<input type="checkbox"/> Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80452	18	<input type="checkbox"/> Full Lane Sealant Waterproofing System	Nov. 1, 2023	
	80447	19	<input type="checkbox"/> Grading and Shaping Ditches	Jan. 1, 2023	
	80433	20	<input type="checkbox"/> Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
	80443	21	<input type="checkbox"/> High Tension Cable Median Barrier Removal	April 1, 2022	
	80456	22	<input type="checkbox"/> Hot-Mix Asphalt	Jan. 1, 2024	
	80446	23	<input type="checkbox"/> Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
	80438	24	<input type="checkbox"/> Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	April 2, 2024
	80045	25	<input type="checkbox"/> Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80450	26	<input type="checkbox"/> Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	
	80441	27	<input checked="" type="checkbox"/> Performance Graded Asphalt Binder	Jan. 1, 2023	
	80451	28	<input type="checkbox"/> Portland Cement Concrete	Aug. 1, 2023	
*	34261	29	<input type="checkbox"/> Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80455	30	<input type="checkbox"/> Removal and Disposal of Regulated Substances	Jan. 1, 2024	April 1, 2024
	80445	31	<input type="checkbox"/> Seeding	Nov. 1, 2022	
	80457	32	<input type="checkbox"/> Short Term and Temporary Pavement Markings	April 1, 2024	
	80448	33	<input type="checkbox"/> Source of Supply and Quality Requirements	Jan. 2, 2023	
	80340	34	<input type="checkbox"/> Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	35	<input type="checkbox"/> Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
	80397	36	<input type="checkbox"/> Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	37	<input type="checkbox"/> Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437	38	<input type="checkbox"/> Submission of Payroll Records	April 1, 2021	Nov. 2, 2023
	80435	39	<input type="checkbox"/> Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
	80410	40	<input type="checkbox"/> Traffic Spotters	Jan. 1, 2019	
*	20338	41	<input type="checkbox"/> Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80429	42	<input type="checkbox"/> Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	43	<input checked="" type="checkbox"/> Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80302	44	<input type="checkbox"/> Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80454	45	<input type="checkbox"/> Wood Sign Support	Nov. 1, 2023	
	80427	46	<input checked="" type="checkbox"/> Work Zone Traffic Control Devices	Mar. 2, 2020	
*	80071	47	<input type="checkbox"/> Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An * indicates the special provision requires additional information from the designer, which needs to be submitted separately. The Project Coordination and Implementation Section will then include the information in the applicable special provision.

The following special provisions are in the 2024 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location(s)</u>	<u>Effective</u>	<u>Revised</u>
80436	Blended Finely Divided Minerals	Articles 1010.01 & 1010.06	April 1, 2021	
80440	Waterproofing Membrane System	Article 1061.05	Nov. 1, 2021	

COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017

Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

“(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.

- (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
- (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
- (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days.”

Revise Article 107.40(c) of the Standard Specifications to read:

“(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.

- (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).

- (2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the

Contractor's yard or another job and the cost to re-mobilize, whichever is less. Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

- (3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13."

Revise Article 108.04(b) of the Standard Specifications to read:

"(b) No working day will be charged under the following conditions.

- (1) When adverse weather prevents work on the controlling item.
- (2) When job conditions due to recent weather prevent work on the controlling item.
- (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
- (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
- (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
- (6) When any condition over which the Contractor has no control prevents work on the controlling item."

Revise Article 109.09(f) of the Standard Specifications to read:

- "(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead

other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited.”

Add the following to Section 109 of the Standard Specifications.

“109.13 Payment for Contract Delay. Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

Contract Type	Cause of Delay	Length of Delay
Working Days	Article 108.04(b)(3) or Article 108.04(b)(4)	No working days have been charged for two consecutive weeks.
Completion Date	Article 108.08(b)(1) or Article 108.08(b)(7)	The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08.

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
 - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

Original Contract Amount	Supervisory and Administrative Personnel
Up to \$5,000,000	One Project Superintendent
Over \$ 5,000,000 - up to \$25,000,000	One Project Manager, One Project Superintendent or Engineer, and One Clerk
Over \$25,000,000 - up to \$50,000,000	One Project Manager, One Project Superintendent, One Engineer, and

	One Clerk
Over \$50,000,000	One Project Manager, Two Project Superintendents, One Engineer, and One Clerk

(2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.

(c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision."

PERFORMANCE GRADED ASPHALT BINDER (BDE)

Effective: January 1, 2023

Revise Article 1032.05 of the Standard Specifications to read:

“1032.05 Performance Graded Asphalt Binder. These materials will be accepted according to the Bureau of Materials Policy Memorandum, “Performance Graded Asphalt Binder Qualification Procedure.” The Department will maintain a qualified producer list. These materials shall be free from water and shall not foam when heated to any temperature below the actual flash point. Air blown asphalt, recycle engine oil bottoms (ReOB), and polyphosphoric acid (PPA) modification shall not be used.

When requested, producers shall provide the Engineer with viscosity/temperature relationships for the performance graded asphalt binders delivered and incorporated in the work.

- (a) Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 “Standard Specification for Performance Graded Asphalt Binder” for the grade shown on the plans and the following.

Test	Parameter
Small Strain Parameter (AASHTO PP 113) BBR, ΔT_c , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5 °C min.

- (b) Modified Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 “Standard Specification for Performance Graded Asphalt Binder” for the grade shown on the plans.

Asphalt binder modification shall be performed at the source, as defined in the Bureau of Materials Policy Memorandum, “Performance Graded Asphalt Binder Qualification Procedure.”

Modified asphalt binder shall be safe to handle at asphalt binder production and storage temperatures or HMA construction temperatures. Safety Data Sheets (SDS) shall be provided for all asphalt modifiers.

- (1) Polymer Modification (SB/SBS or SBR). Elastomers shall be added to the base asphalt binder to achieve the specified performance grade and shall be either a styrene-butadiene diblock, triblock copolymer without oil extension, or a styrene-butadiene rubber. The polymer modified asphalt binder shall be smooth, homogeneous, and be according to the requirements shown in Table 1 or 2 for the grade shown on the plans.

Table 1 - Requirements for Styrene-Butadiene Copolymer (SB/SBS) Modified Asphalt Binders		
Test	Asphalt Grade SB/SBS PG 64-28 SB/SBS PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SB/SBS PG 76-22 SB/SBS PG 76-28
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.

Table 2 - Requirements for Styrene-Butadiene Rubber (SBR) Modified Asphalt Binders		
Test	Asphalt Grade SBR PG 64-28 SBR PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SBR PG 76-22 SBR PG 76-28
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.
Toughness ASTM D 5801, 77 °F (25 °C), 20 in./min. (500 mm/min.), in.-lbs (N-m)	110 (12.5) min.	110 (12.5) min.
Tenacity ASTM D 5801, 77 °F (25 °C), 20 in./min. (500 mm/min.), in.-lbs (N-m)	75 (8.5) min.	75 (8.5) min.
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	40 min.	50 min.

- (2) Ground Tire Rubber (GTR) Modification. GTR modification is the addition of recycled ground tire rubber to liquid asphalt binder to achieve the specified performance grade. GTR shall be produced from processing automobile and/or truck tires by the ambient

grinding method or micronizing through a cryogenic process. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall not contain free metal particles, moisture that would cause foaming of the asphalt, or other foreign materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois Modified AASHTO T 27 “Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates” or AASHTO PP 74 “Standard Practice for Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method”, a 50 g sample of the GTR shall conform to the following gradation requirements.

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 μ m)	95 \pm 5
No. 50 (300 μ m)	> 20

GTR modified asphalt binder shall be tested for rotational viscosity according to AASHTO T 316 using spindle S27. GTR modified asphalt binder shall be tested for original dynamic shear and RTFO dynamic shear according to AASHTO T 315 using a gap of 2 mm.

The GTR modified asphalt binder shall meet the requirements of Table 3.

Table 3 - Requirements for Ground Tire Rubber (GTR) Modified Asphalt Binders		
Test	Asphalt Grade GTR PG 64-28 GTR PG 70-22	Asphalt Grade GTR PG 76-22 GTR PG 76-28 GTR PG 70-28
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.

- (3) Softener Modification (SM). Softener modification is the addition of organic compounds, such as engineered flux, bio-oil blends, modified vegetable oils, glycol amines, and fatty acid derivatives, to the base asphalt binder to achieve the specified performance grade. Softeners shall be dissolved, dispersed, or reacted in the asphalt binder to enhance its performance and shall remain compatible with the asphalt binder with no separation. Softeners shall not be added to modified PG asphalt binder as defined in Articles 1032.05(b)(1) or 1032.05(b)(2).

An Attenuated Total Reflectance-Fourier Transform Infrared spectrum (ATR-FTIR) shall be collected for both the softening compound as well as the softener modified

asphalt binder at the dose intended for qualification. The ATR-FTIR spectra shall be collected on unaged softener modified binder, 20-hour Pressurized Aging Vessel (PAV) aged softener modified binder, and 40-hour PAV aged softener modified binder. The ATR-FTIR shall be collected in accordance with Illinois Test Procedure 601. The electronic files spectral files (in one of the following extensions or equivalent: *.SPA, *.SPG, *.IRD, *.IFG, *.CSV, *.SP, *.IRS, *.GAML, *. [0-9], *.IGM, *.ABS, *.DRT, *.SBM, *.RAS) shall be submitted to the Central Bureau of Materials.

Softener modified asphalt binders shall meet the requirements in Table 4.

Table 4 - Requirements for Softener Modified Asphalt Binders	
Test	Asphalt Grade
	SM PG 46-28 SM PG 46-34 SM PG 52-28 SM PG 52-34 SM PG 58-22 SM PG 58-28 SM PG 64-22
Small Strain Parameter (AASHTO PP 113) BBR, ΔT_c , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5°C min.
Large Strain Parameter (Illinois Modified AASHTO T 391) DSR/LAS Fatigue Property, $\Delta G^* _{peak}$, 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	$\geq 54 \%$

The following grades may be specified as tack coats.

Asphalt Grade	Use
PG 58-22, PG 58-28, PG 64-22	Tack Coat

Revise Article 1031.06(c)(1) and 1031.06(c)(2) of the Standard Specifications to read:

“(1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin ABR shall not exceed the amounts listed in the following table.

HMA Mixtures - RAP/RAS Maximum ABR % ^{1/ 2/}			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface ^{3/}
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10

1/ For Low ESAL HMA shoulder and stabilized subbase, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

- 2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
- 3/ The maximum ABR percentages for ground tire rubber (GTR) modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes.
- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the following table.

HMA Mixtures - FRAP/RAS Maximum ABR % ^{1/ 2/}			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface ^{3/}
30	55	45	15
50	45	40	15
70	45	35	15
90	45	35	15
SMA	- -	- -	25
IL-4.75	- -	- -	35

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
- 3/ The maximum ABR percentages for GTR modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes."

Add the following to the end of Note 2 of Article 1030.03 of the Standard Specifications.

"A dedicated storage tank for the ground tire rubber (GTR) modified asphalt binder shall be provided. This tank shall be capable of providing continuous mechanical mixing throughout and/or recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent."

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021

Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

“The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations.”

80439

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Add the following to Article 701.03 of the Standard Specifications:

“(q) Temporary Sign Supports 1106.02”

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

“For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer’s specifications.”

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

“**701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer’s self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device.”

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

“**1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact

attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH-16 compliant is available, an NCHRP 350 or MASH-2009 compliant device may be used, even if manufactured after December 31, 2019.”

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

“(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department’s qualified product list.

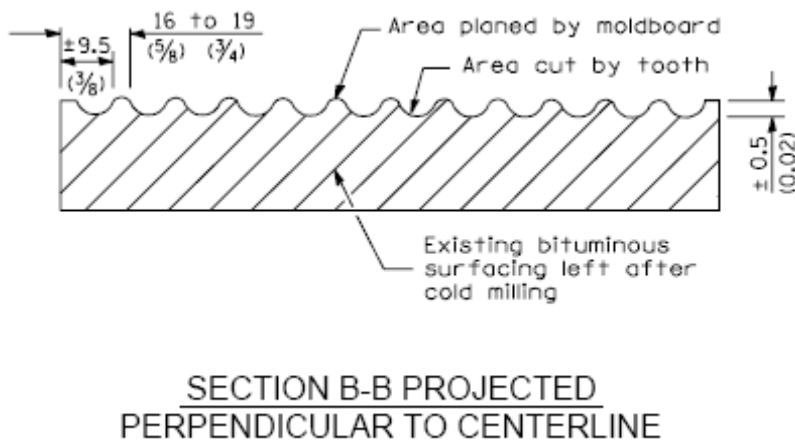
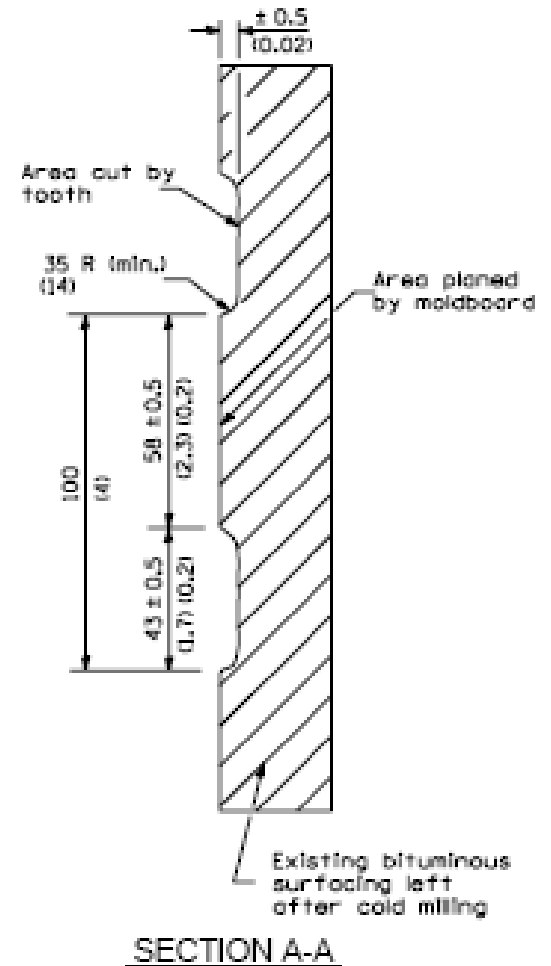
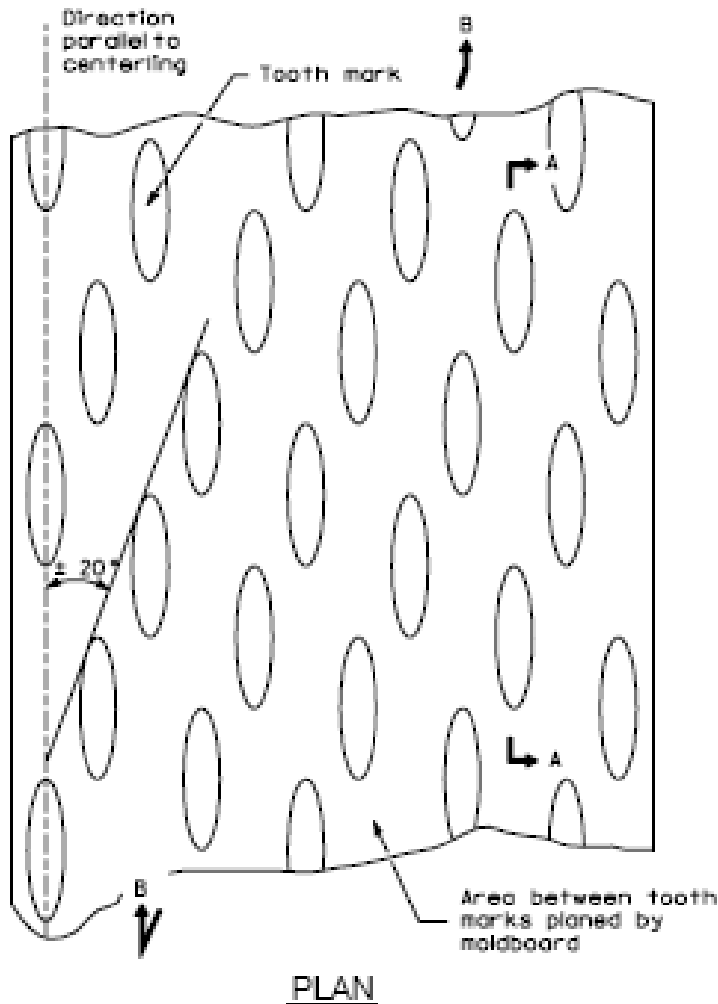
Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis.”

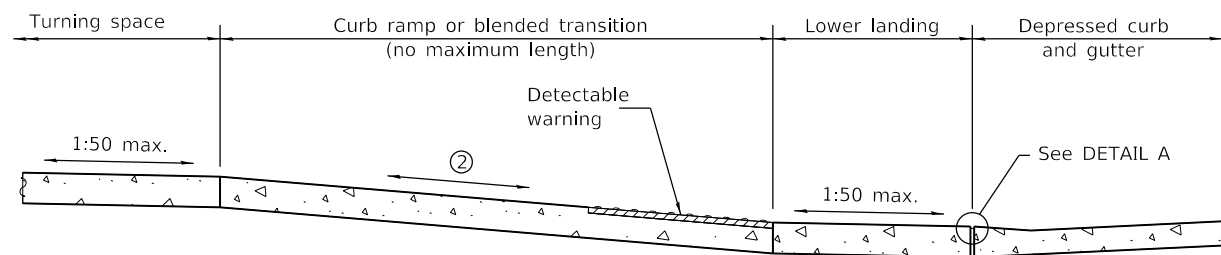
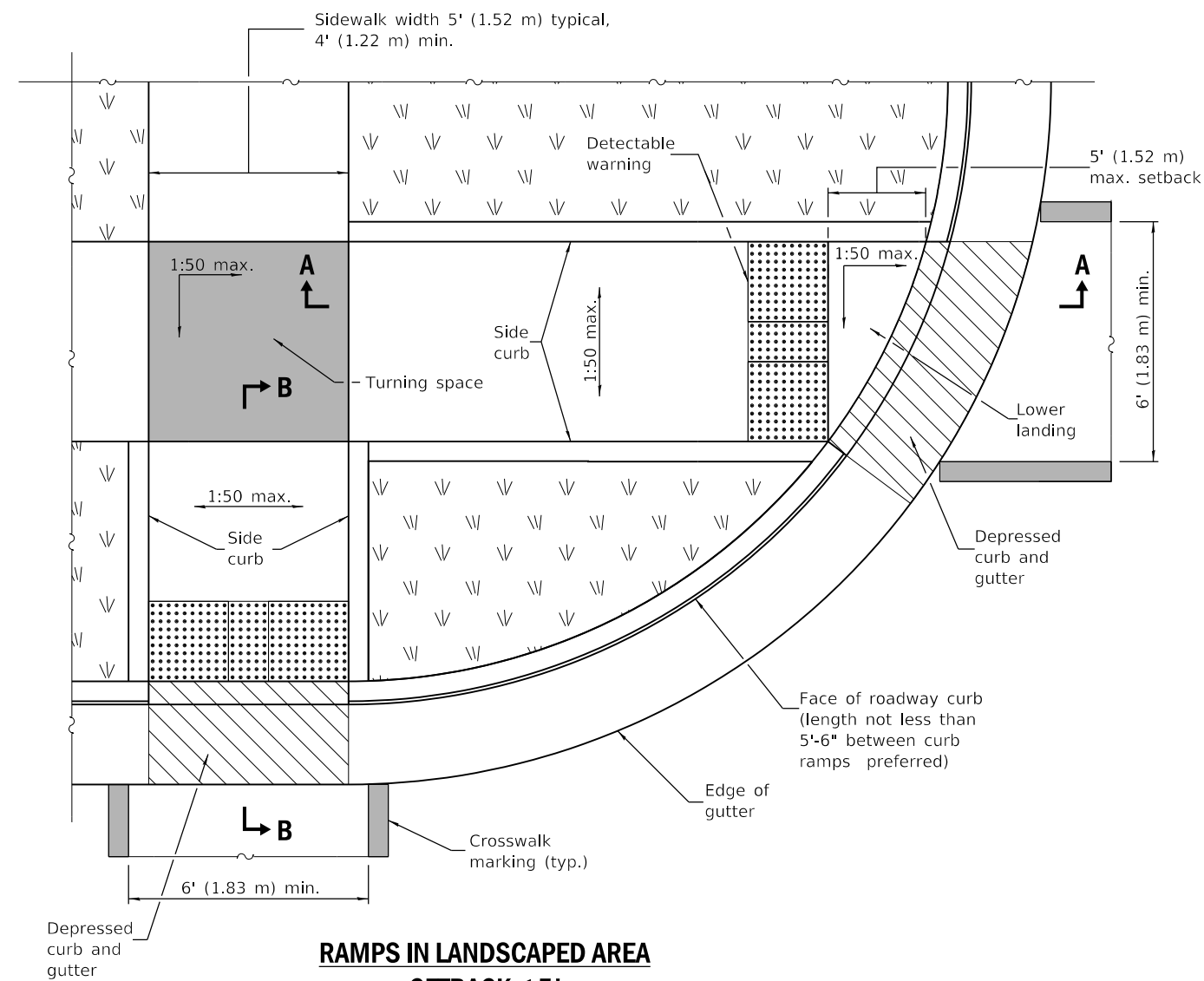
REQUIRED COLD MILLED SURFACE TEXTURE

Effective: November 1, 1987
Revised: January 1, 2007



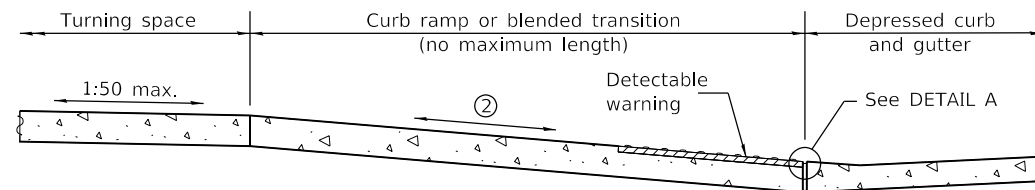
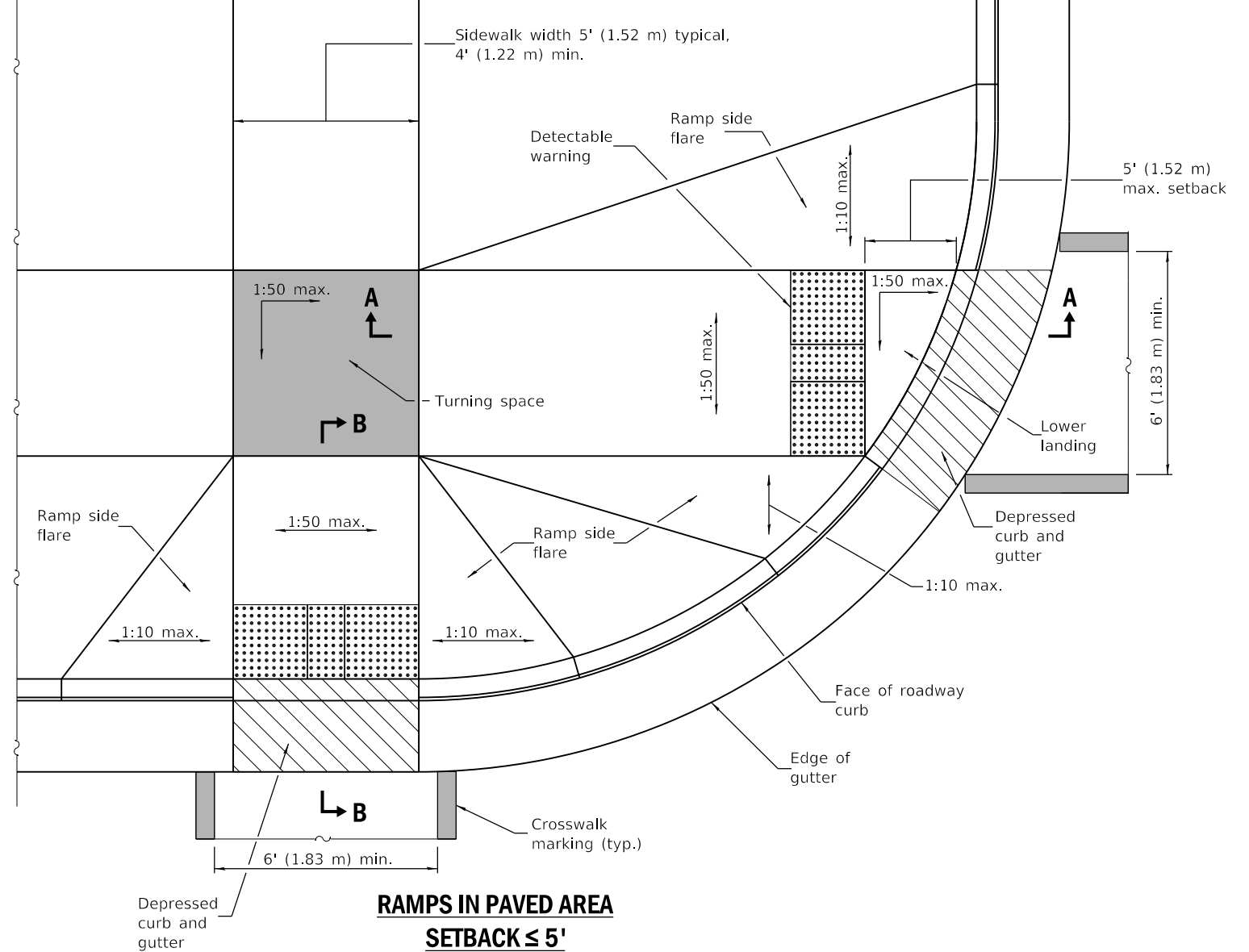
GENERAL NOTES

- Cold Milling shall consist of two processes:
 - Cutting with carbide teeth mounted on a rotating drum, and
 - Planing with a moldboard mounted immediately behind the cutting drum.
- Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a portion of discontinuous longitudinal striations.
- All dimensions are in millimeters (inches) unless otherwise shown.



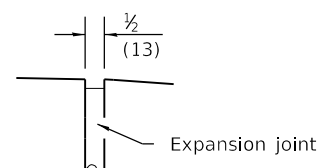
SECTION A-A

- ② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

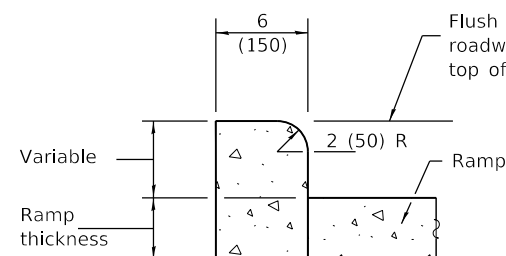


SECTION B-B

- ② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



DETAIL A



SIDE CURB DETAIL

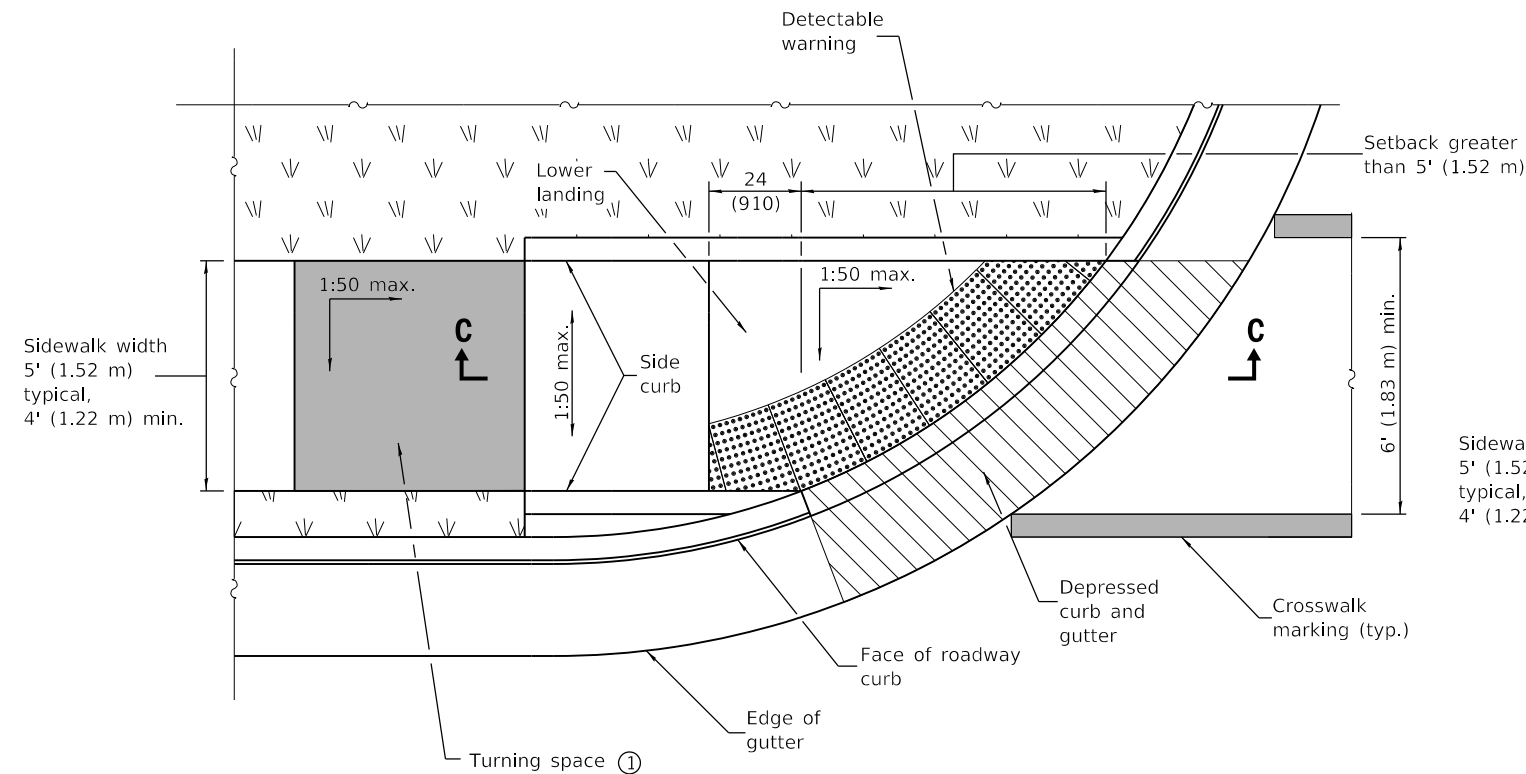
See Sheet 2 for GENERAL NOTES.

DATE	REVISIONS
1-1-19	Removed "15-foot rule", added
	"Blended transitions" and placement
	tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at
	turning spaces and lower
	landings.

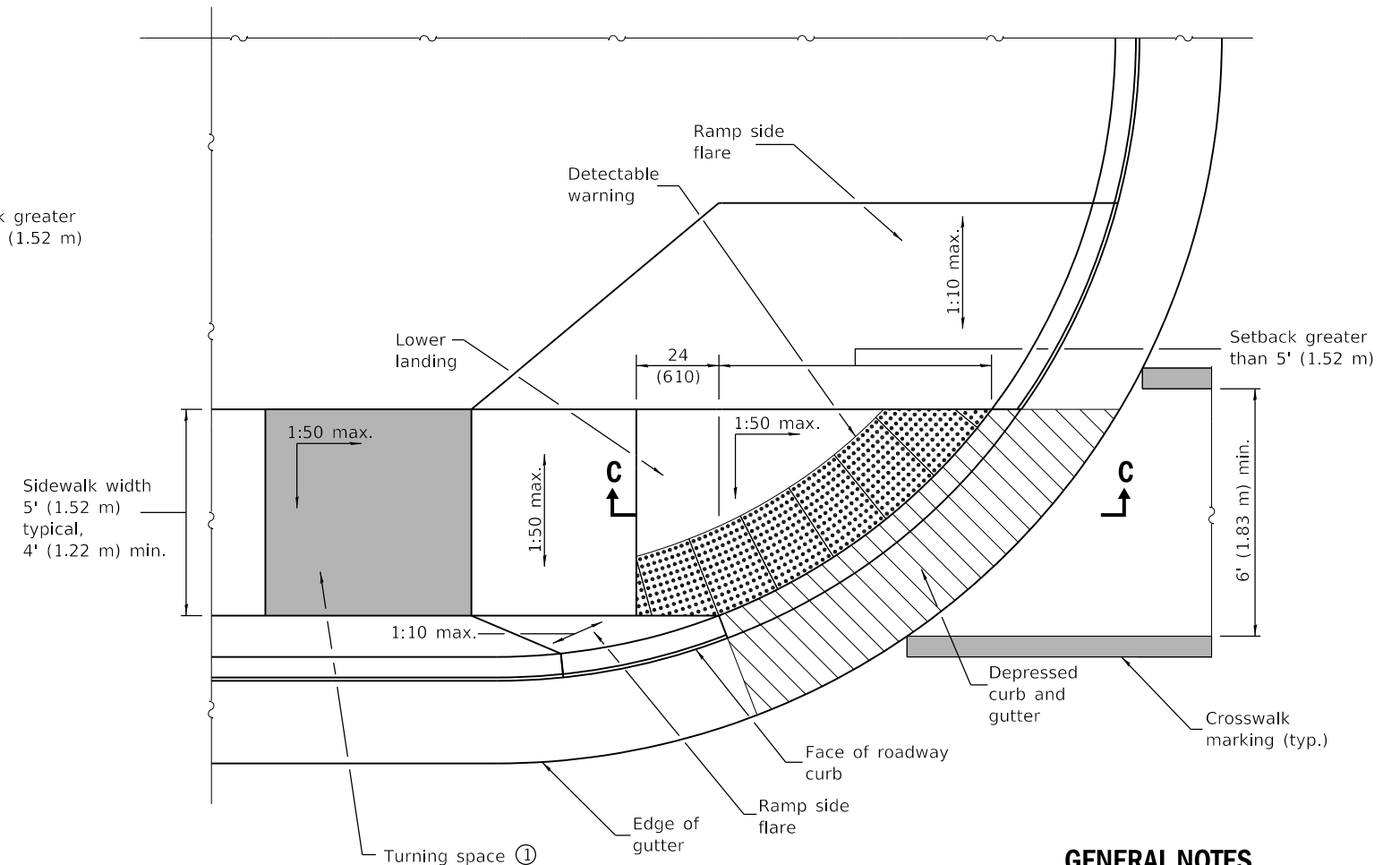
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

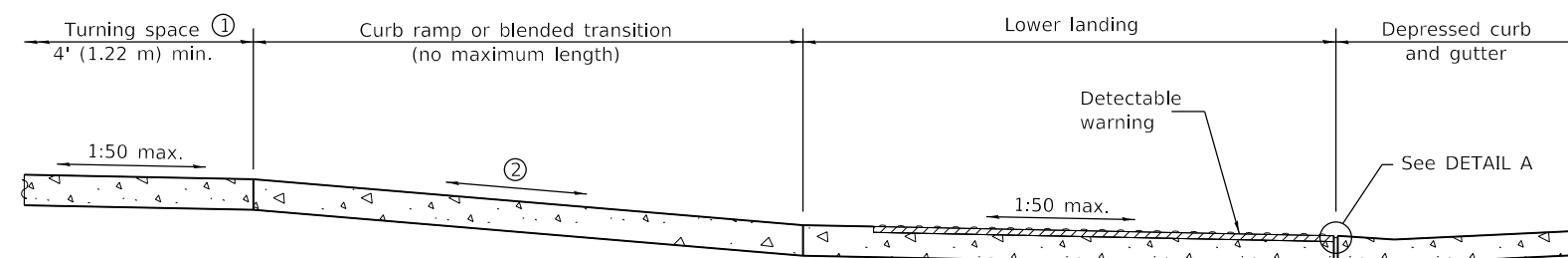
STANDARD 424001-11



RAMP IN LANDSCAPED AREA
SETBACK > 5'



RAMP IN PAVED AREA
SETBACK > 5'



SECTION C-C

- ① This turning space not required for blended transitions.
- ② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

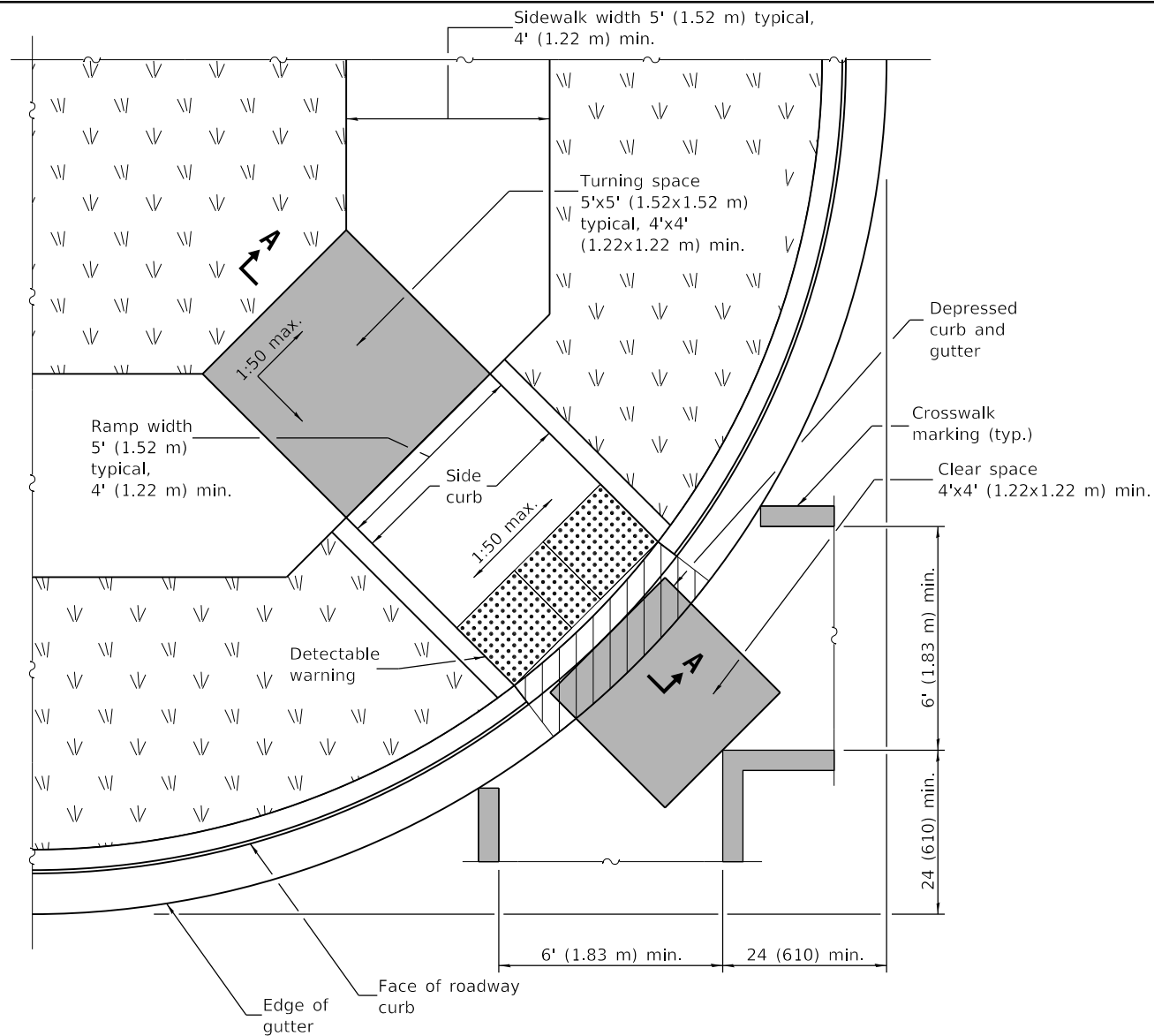
See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

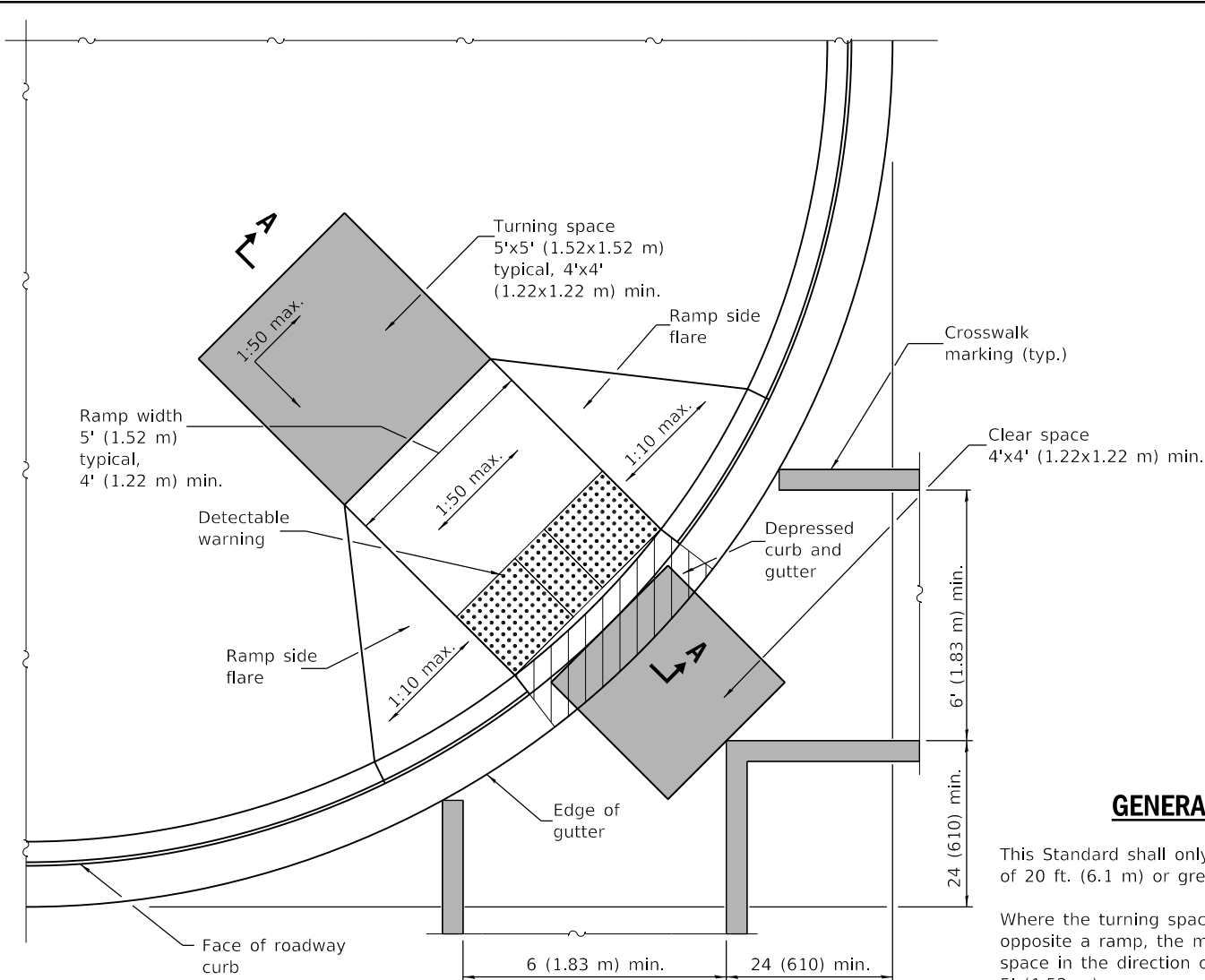
**PERPENDICULAR CURB RAMPS
FOR SIDEWALKS**

(Sheet 2 of 2)

STANDARD 424001-11



RAMP IN LANDSCAPED AREA



RAMP IN PAVED AREA

GENERAL NOTES

This Standard shall only be used for curb radii of 20 ft. (6.1 m) or greater.

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

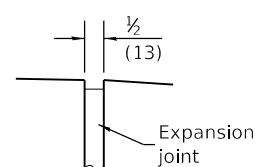
Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

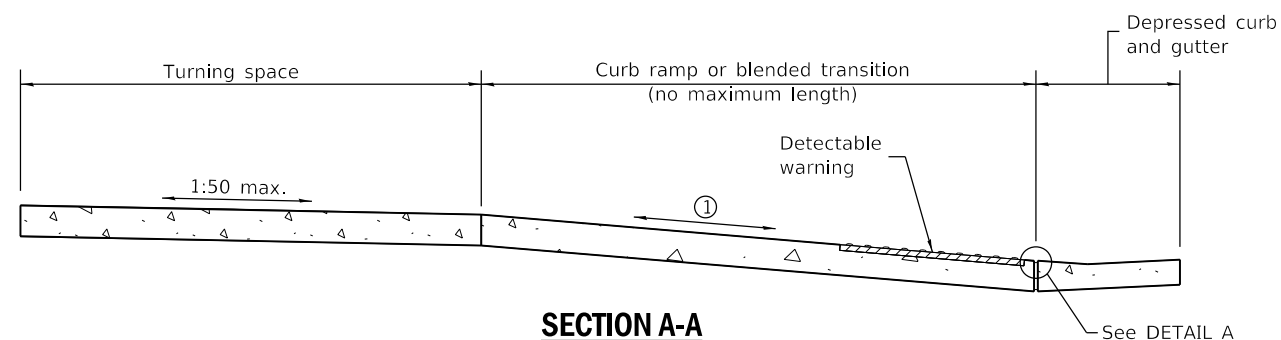
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

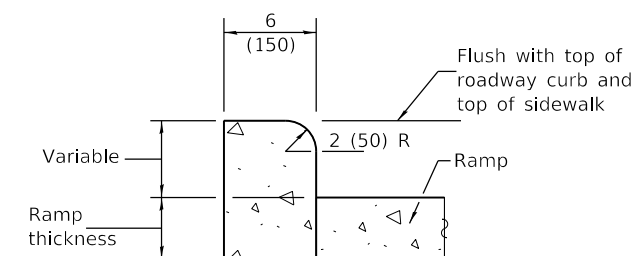


DETAIL A



SECTION A-A

- ① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



SIDE CURB DETAIL

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

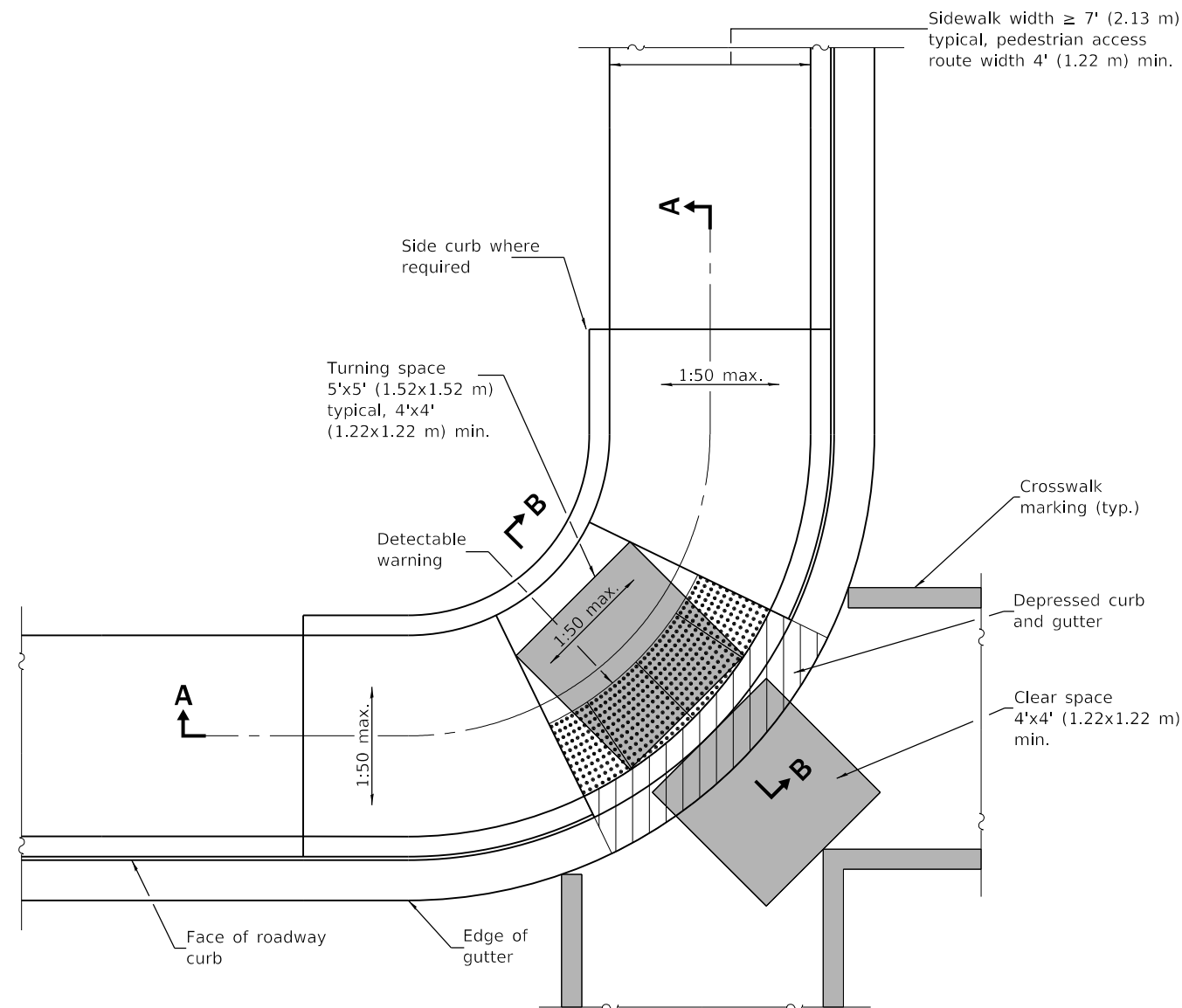
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

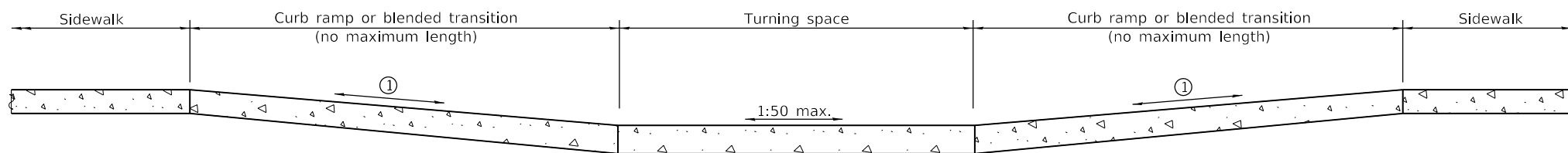
DATE	REVISIONS
1-1-21	Clarified minimum crosswalk width and locations.
1-1-19	Removed "15-foot rule", added "blended transitions" and placement tolerances for detectable warnings.

DIAGONAL CURB RAMPS FOR SIDEWALKS

STANDARD 424006-05

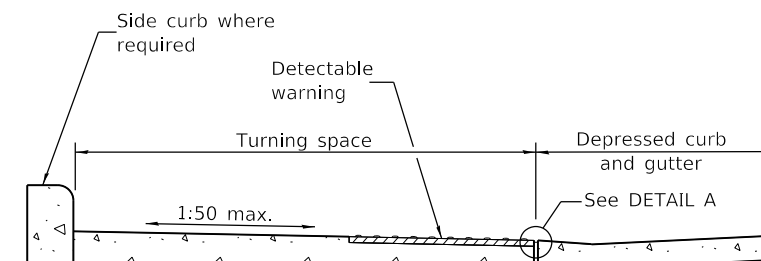


CORNER PARALLEL CURB RAMP

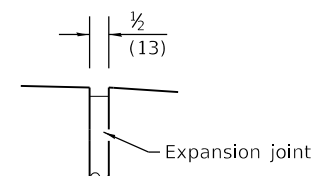


SECTION A-A

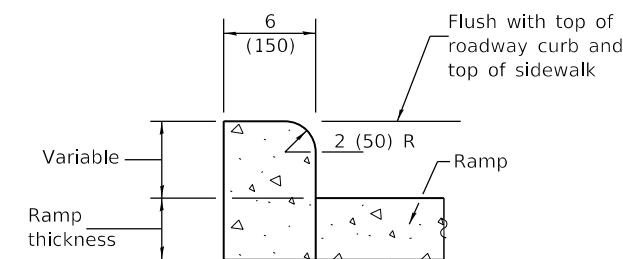
① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



SECTION B-B



DETAIL A



SIDE CURB DETAIL

GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

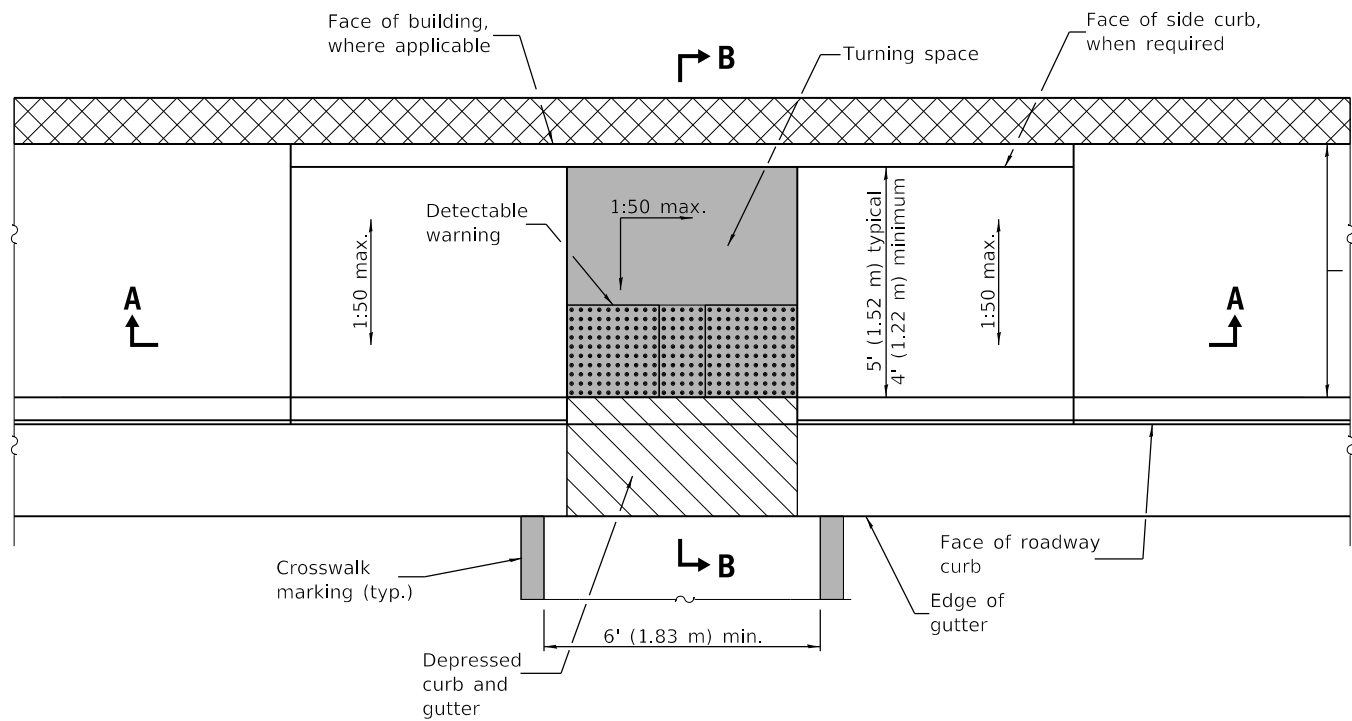
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation	
PASSED January 1, 2019	ISSUED 1-1-12
ENGINEER OF POLICY AND PROCEDURES	
APPROVED January 1, 2019	
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-19	Removed upper landing, added blended transition and detectable warning tolerances.
1-1-17	Revised sidewalk width to include 24 (610) buffer behind curb.

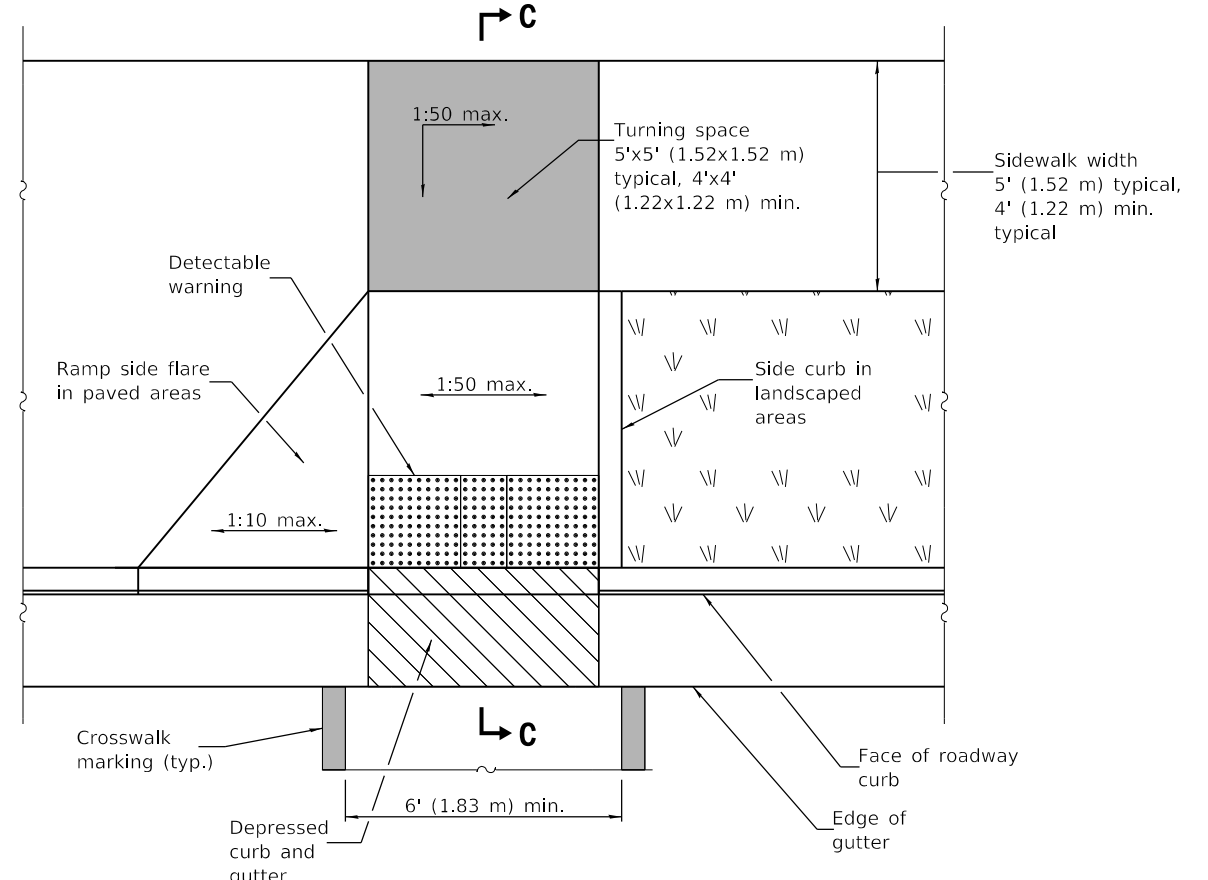
CORNER PARALLEL CURB RAMPS FOR SIDEWALKS

STANDARD 424011-04

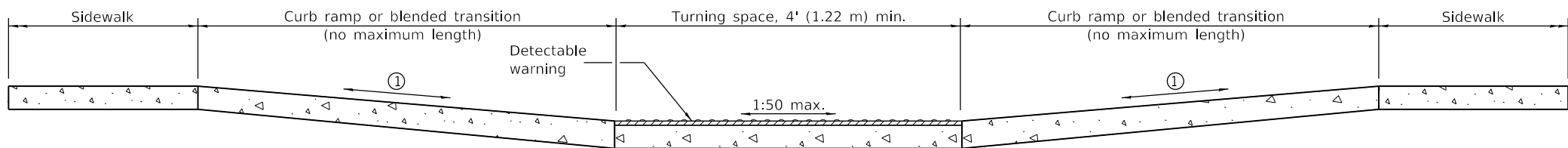


PARALLEL MID-BLOCK CURB RAMP

Sidewalk width \geq 7' (2.13 m) typical, pedestrian access route width 4' (1.22 m) min.

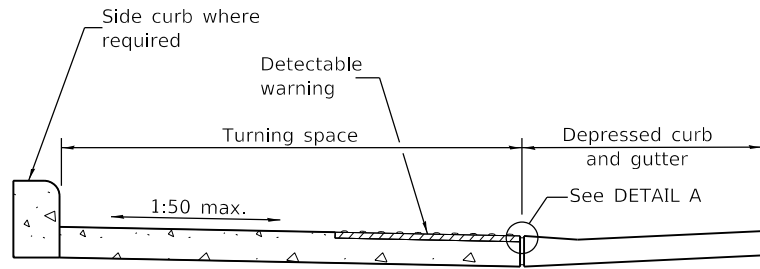


PERPENDICULAR MID-BLOCK CURB RAMP

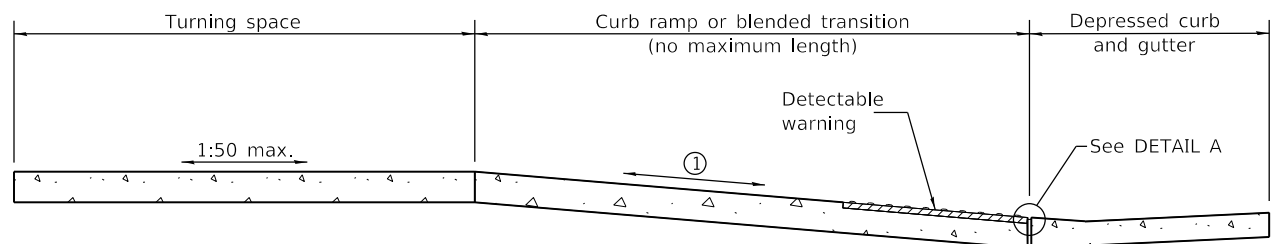


SECTION A-A

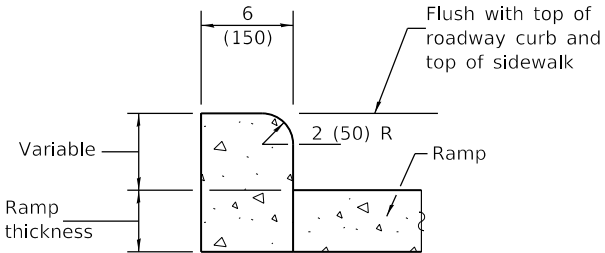
① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



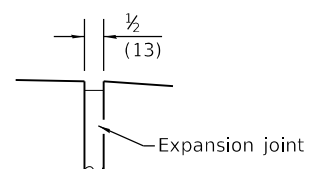
SECTION B-B



SECTION C-C



SIDE CURB DETAIL



DETAIL A

GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

DATE	REVISIONS
1-1-19	Removed upper landing, added blended transitions and detectable warning tolerances.
1-1-18	Omitted diagonal slope at turning spaces and upper landings.

MID-BLOCK CURB RAMPS FOR SIDEWALKS

STANDARD 424016-05

Illinois Department of Transportation

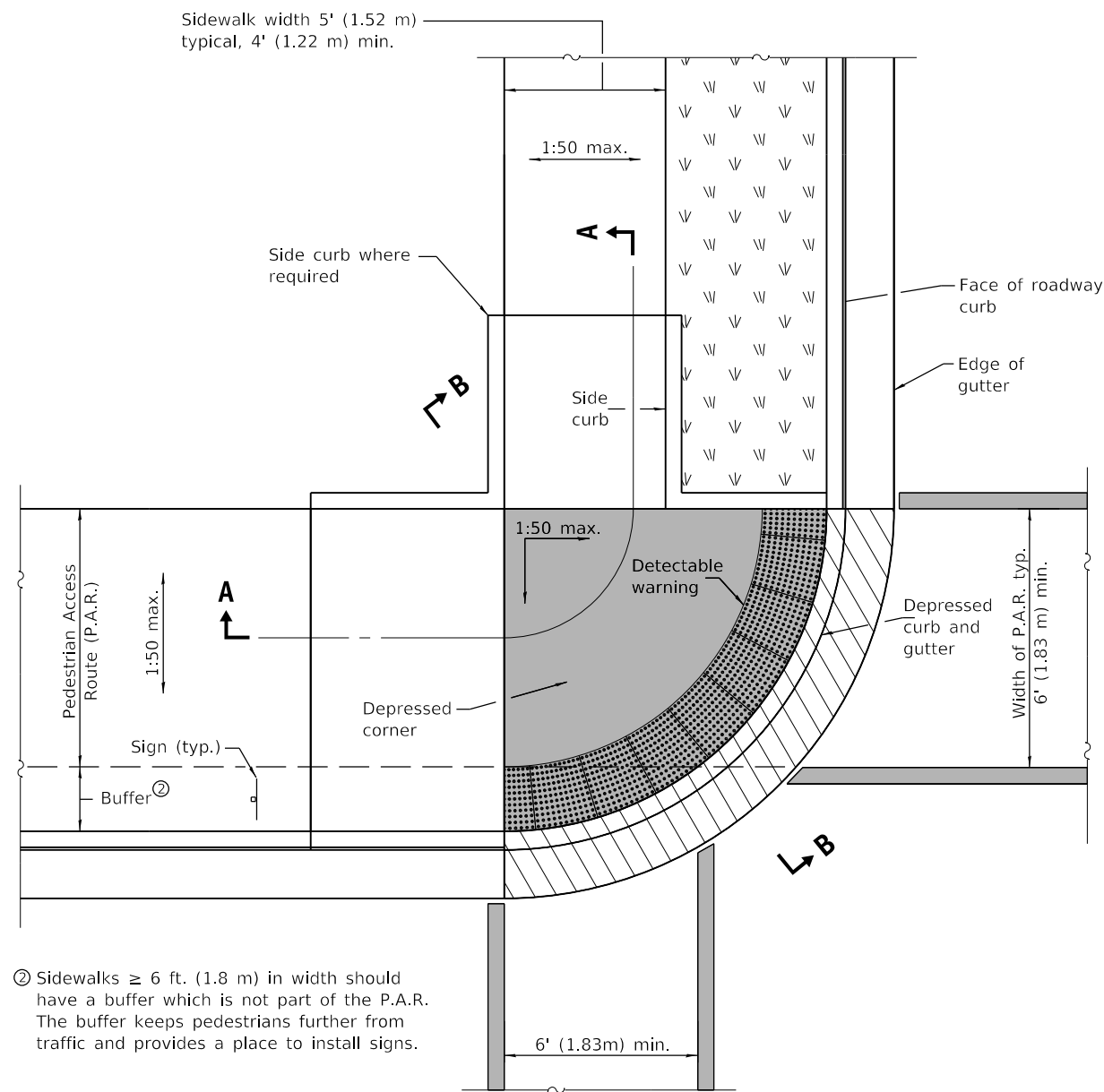
PASSED January 1, 2019

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019

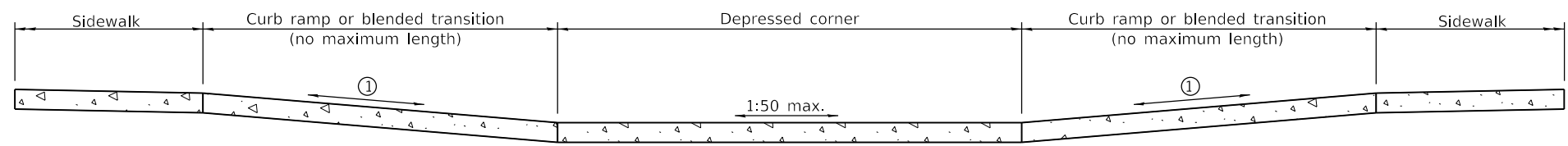
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12



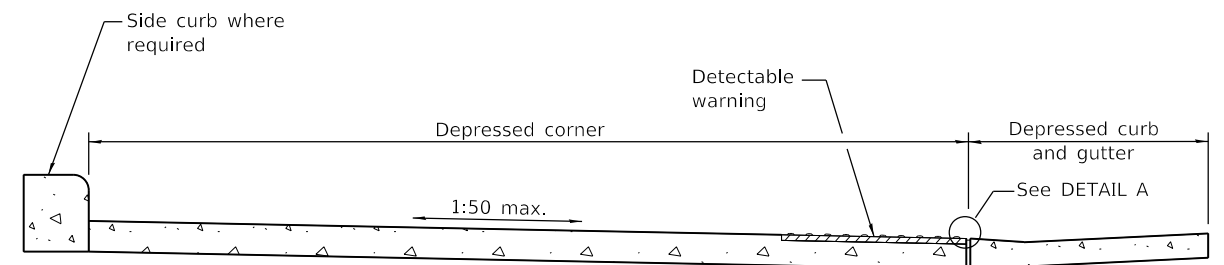
② Sidewalks \geq 6 ft. (1.8 m) in width should have a buffer which is not part of the P.A.R. The buffer keeps pedestrians further from traffic and provides a place to install signs.

DEPRESSED CORNER

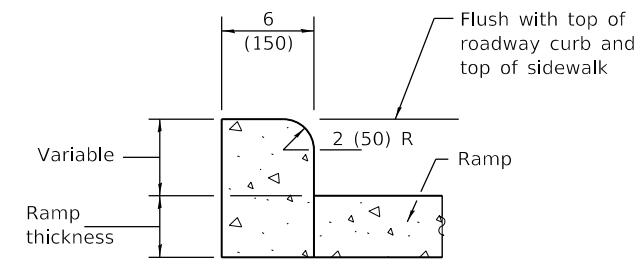


SECTION A-A

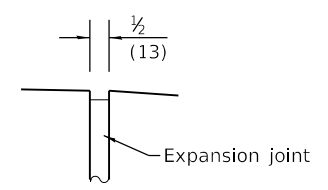
① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



SECTION B-B



SIDE CURB DETAIL



DETAIL A

GENERAL NOTES

This standard shall only be used for curb radii of 6 ft. (1.83 m) or greater.

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

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal tolerances but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

PASSEDJanuary 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVEDJanuary 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

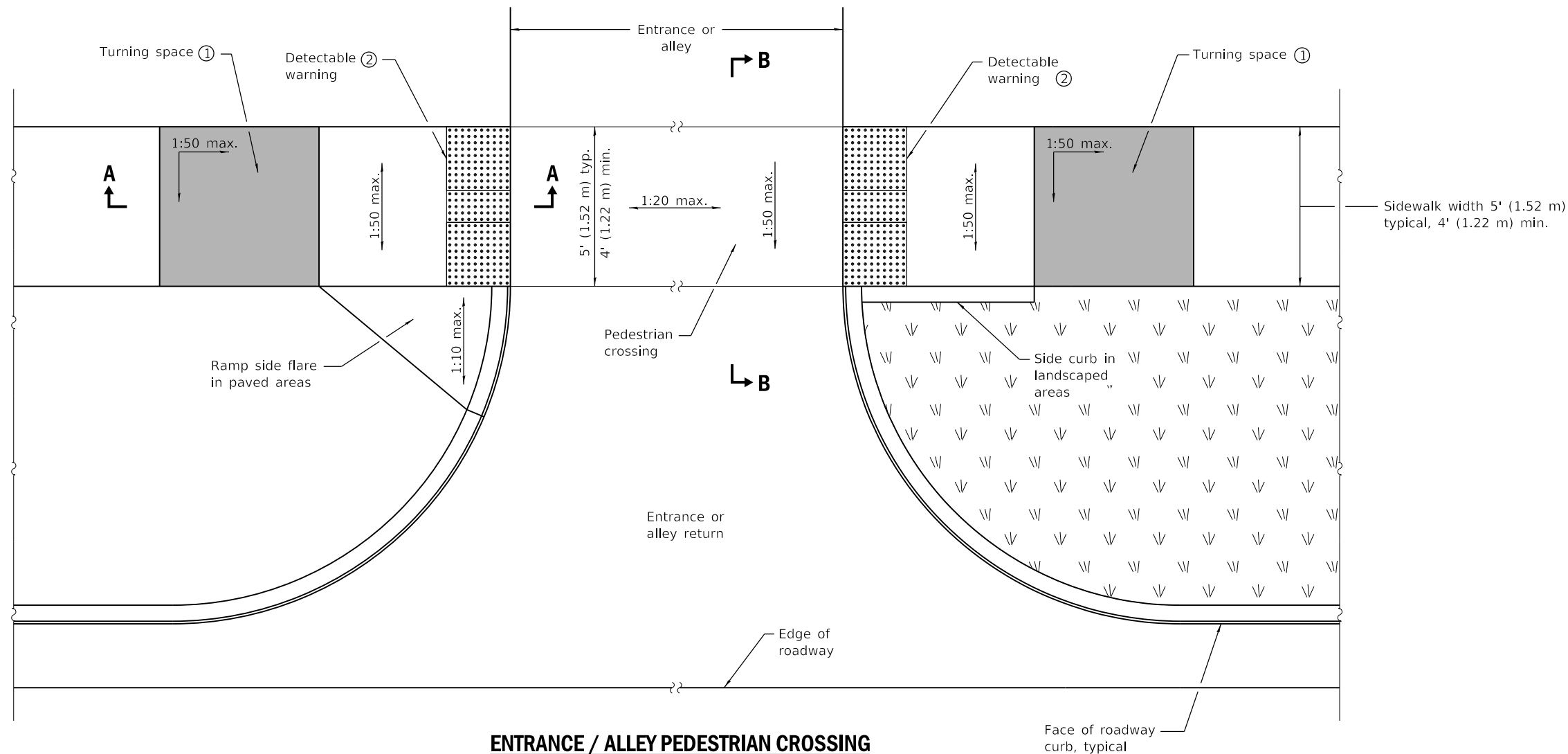
ISSUED 1-1-12

DATE	REVISIONS
1-1-21	Added crosswalk striping and a "buffer" for wide sidewalks.
1-1-19	Removed upper landings, added blended transition and detectable warning tolerances.

DEPRESSED CORNER
FOR SIDEWALKS

STANDARD 424021-06

- ② Detectable warning shall only be installed at entrances/alleys with permanent traffic control devices (i.e. stop signs, signals).
- ③ Where possible, maintain the grade of the sidewalk across the entrance/alley to avoid the need for ramps and turning spaces.



ENTRANCE / ALLEY PEDESTRIAN CROSSING

GENERAL NOTES

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

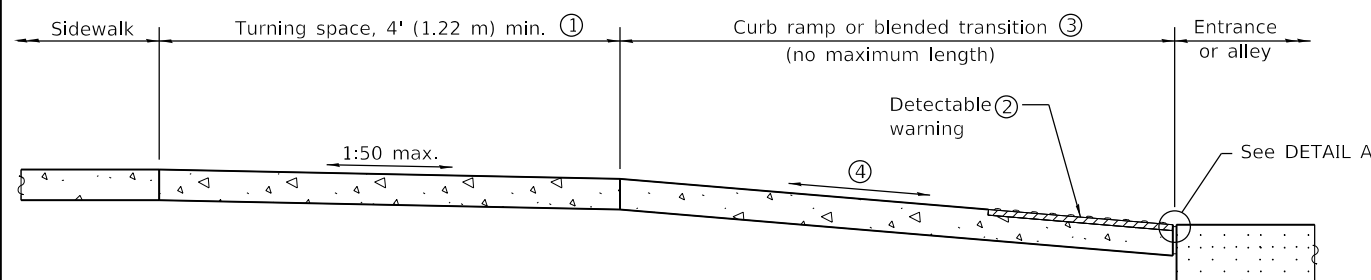
Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

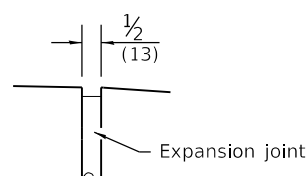
Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

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

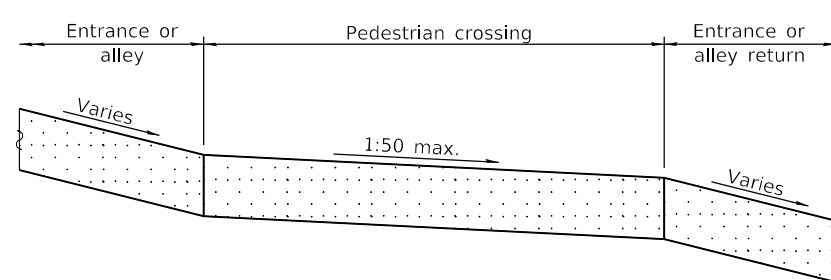


SECTION A-A

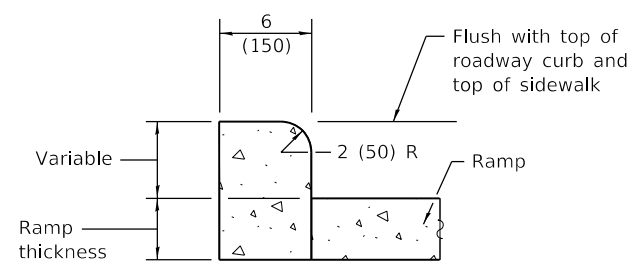
- ① Turning space not required for blended transitions.
- ④ The running slope of a curb ramp shall be 1:20 min and 1:12 max. The running slope of a blended transition shall be 1:20 max.



DETAIL A



SECTION B-B

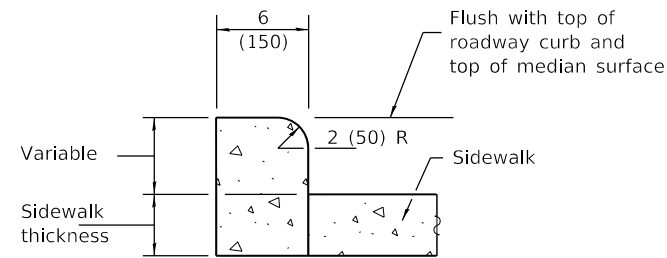


SIDE CURB DETAIL

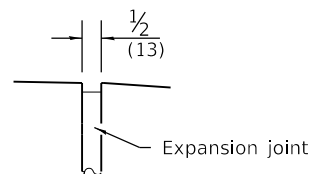
DATE	REVISIONS
1-1-19	Added blended transitions and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at upper landings.

ENTRANCE / ALLEY PEDESTRIAN CROSSINGS

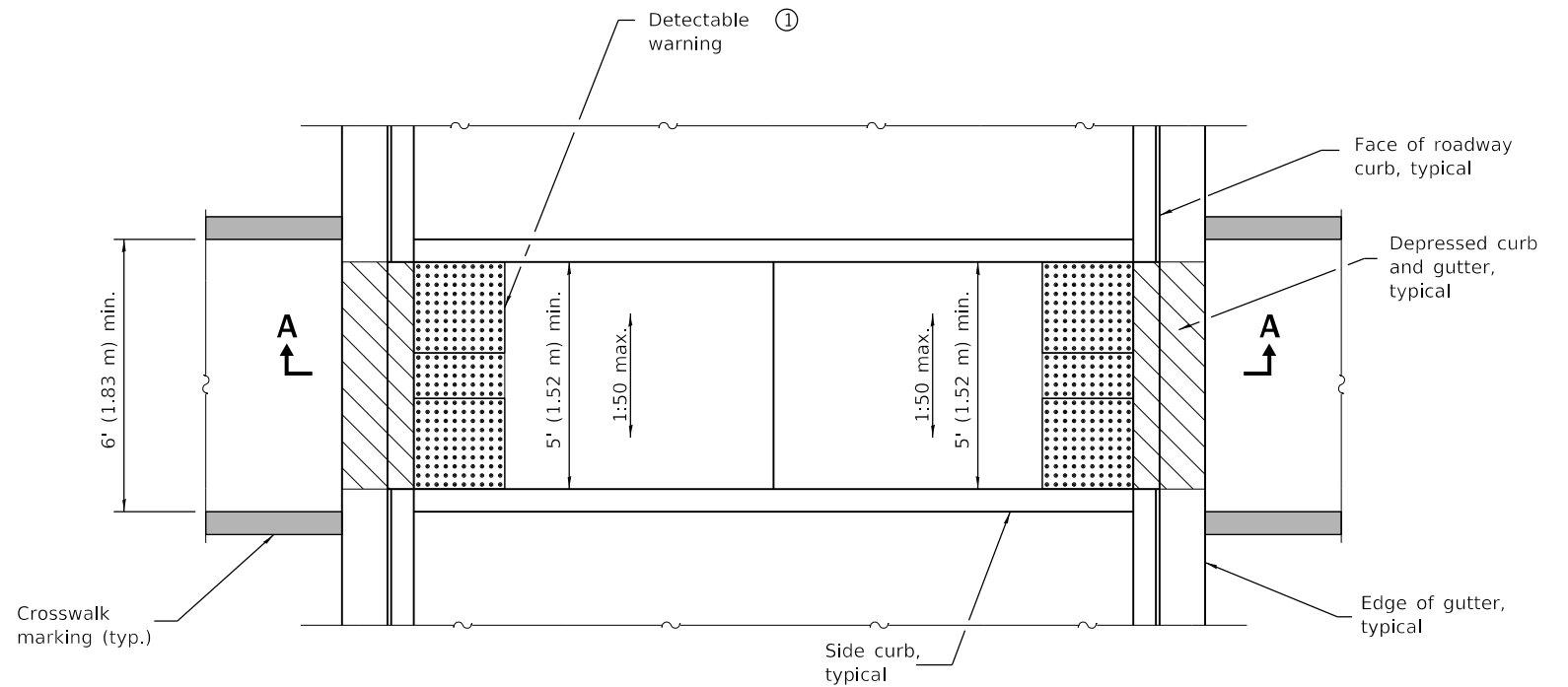
STANDARD 424026-03



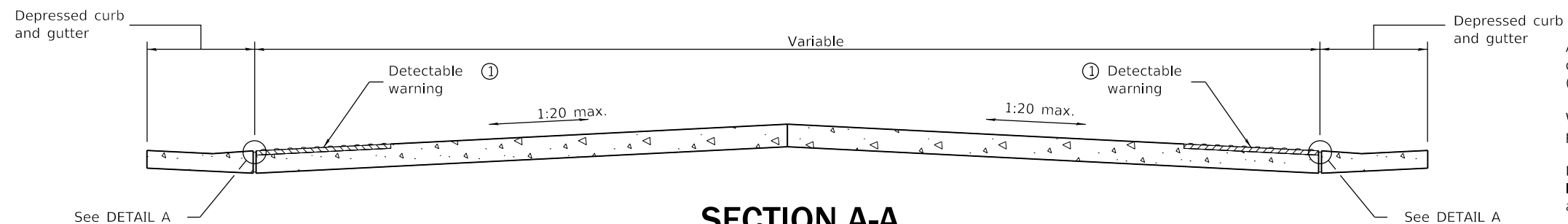
SIDE CURB DETAIL



DETAIL A



MEDIAN PEDESTRIAN CROSSING



SECTION A-A

① Omit detectable warnings when distance between back of curbs is less than 6' (1.83 m).

GENERAL NOTES

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

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

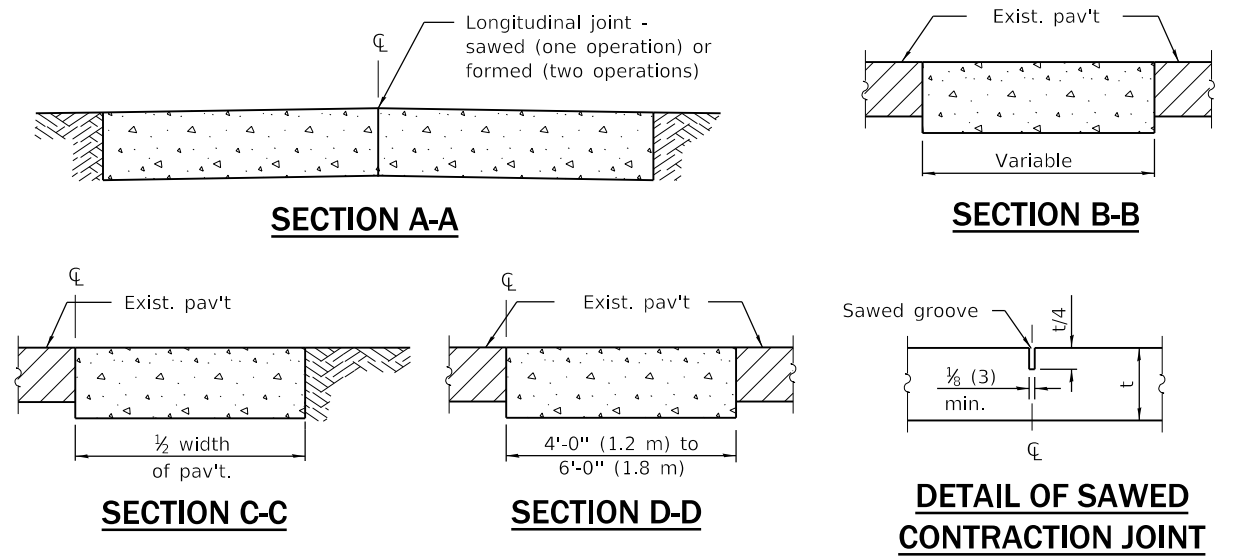
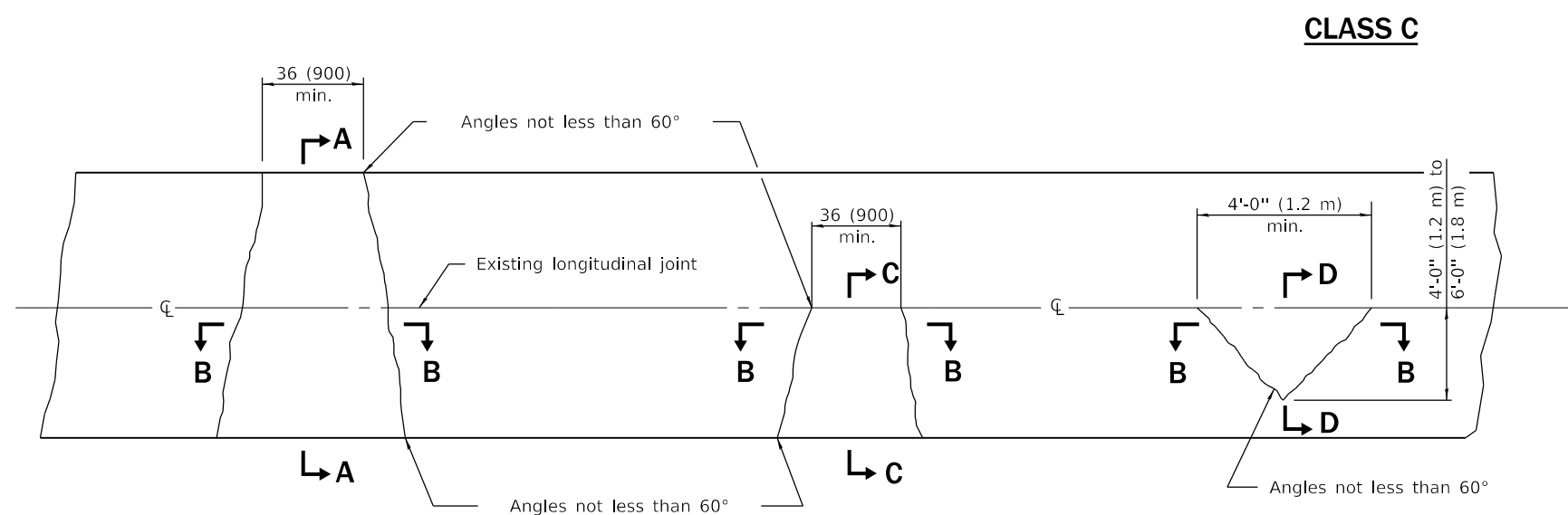
All dimensions are in inches (millimeters) unless otherwise shown.

PASSED <u>January 1, 2019</u> ENGINEER OF POLICY AND PROCEDURES	ISSUED 1-1-12
APPROVED <u>January 1, 2019</u> ENGINEER OF DESIGN AND ENVIRONMENT	

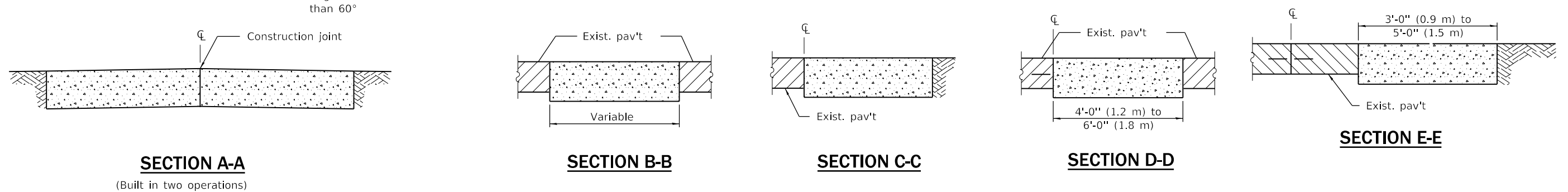
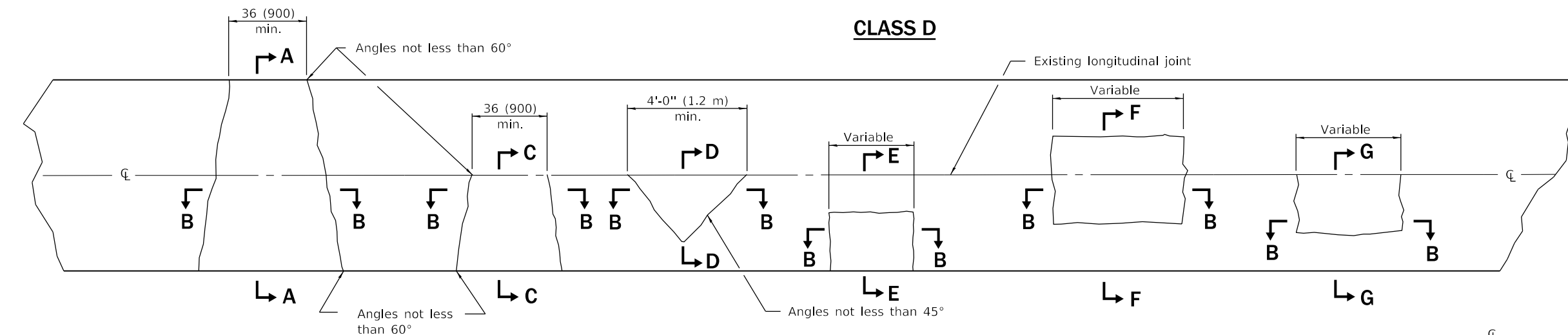
DATE	REVISIONS
1-1-19	Added placement tolerances for detectable warnings.
1-1-12	Widened crosswalk to 6' (1.83 m) min. inside dimension.
	Revised General Notes.

MEDIAN PEDESTRIAN CROSSINGS

STANDARD 424031-02



Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.



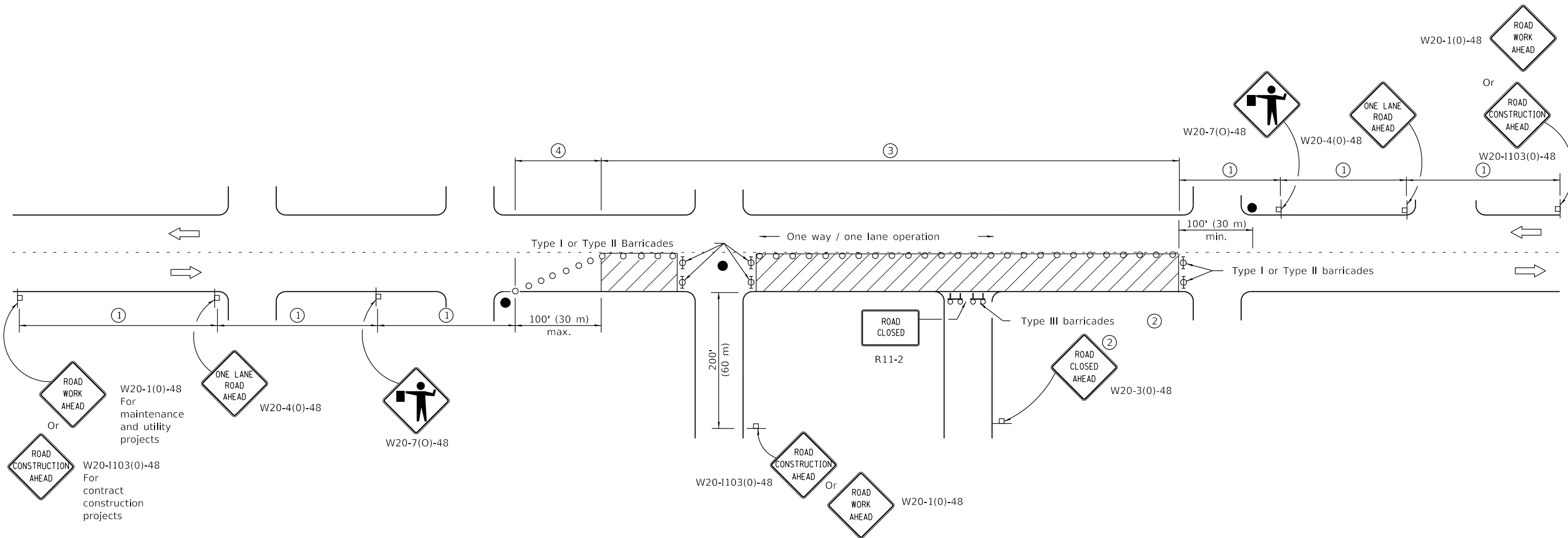
GENERAL NOTES
Existing tie bars shall be either cut or removed.
Marginal bars shall be cut.

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

DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.







CLASS C and D PATCHES

STANDARD 442201-03



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

SYMBOLS

-  Work area
-  Cone, drum or barricade (not required for moving operations)
-  Sign on portable or permanent support
-  Flagger with traffic control sign
-  Barricade or drum with flashing light
-  Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES


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

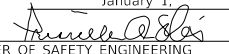
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,
2L, 2W, UNDIVIDED**

STANDARD 701501-06

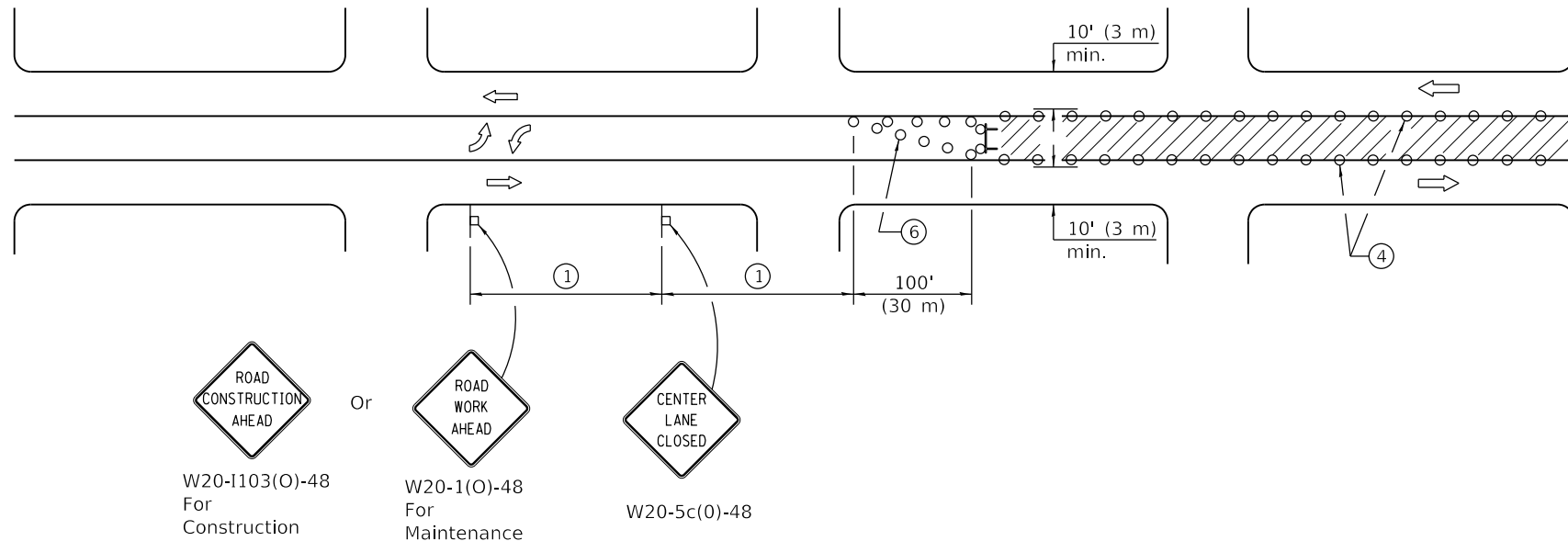
**Illinois Department of Transportation**

PASSED

ENGINEER OF SAFETY ENGINEERING

APPROVED

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



CASE I

(Signs required for both directions)

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

SYMBOLS

- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign
- Cone, drum or barricade
- Sign on portable or permanent support
- Type III barricade with flashing lights

- Refer to SIGN SPACING TABLE for distances.
- Required for speeds > 40 mph (70 km/h).
- Required if work exceeds 500' (164 m) or 1 block.
- Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- For approved sideroad closures.
- Cones, drums or barricades at 20' (6 m) centers in taper.
- Use flagger sign only when flagger is present.

GENERAL NOTES

This Standard is used to close one lane of an urban, two lane, two way roadway with a bidirectional turn lane.

Case I applies when no workers are present. When workers are present, two lanes shall be closed and traffic control shall be according to Standard 701501.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$
W = Width of offset in feet (meters).		
S = Normal posted speed mph (km/h).		

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

Illinois Department of Transportation

APPROVED January 1, 2019

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

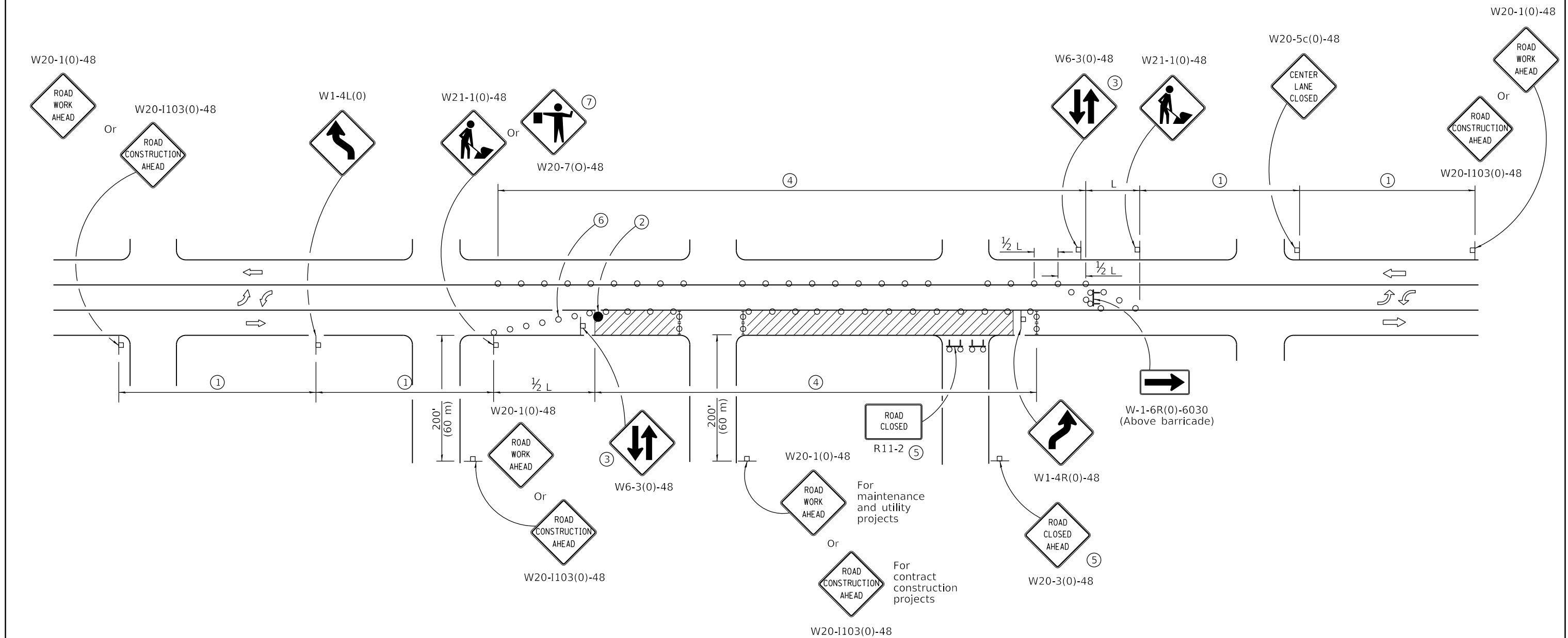
ISSUED 1-1-01

DATE	REVISIONS
1-1-19	Revised to allow cones at night.
1-1-18	Corrected sign number for
	TWO WAY TRAFFIC sign for
	CASE II.

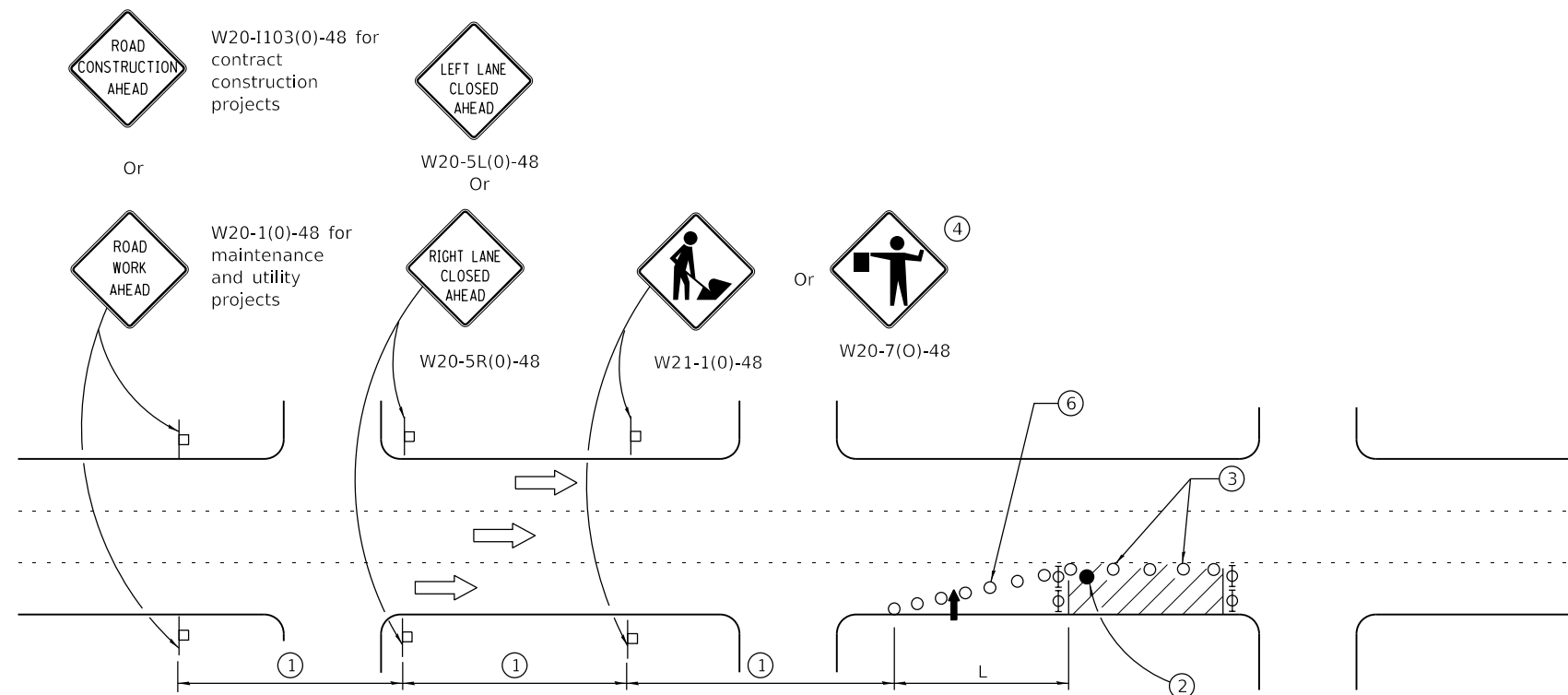
URBAN LANE CLOSURE,
2L, 2W, WITH BIDIRECTIONAL
LEFT TURN LANE

(Sheet 1 of 2)

STANDARD 701502-09



CASE II



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

SYMBOLS

- ↑ Arrow board
- Cone, drum or barricade
- ┆ Sign on portable or permanent support
- ▨ Work area
- ⊕ Barricade or drum with flashing light
- ⚡ Type III barricade with flashing lights
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 MPH
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) in taper.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in urban areas.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$
W = Width of offset in feet (meters).		
S = Normal posted speed mph (km/h).		

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

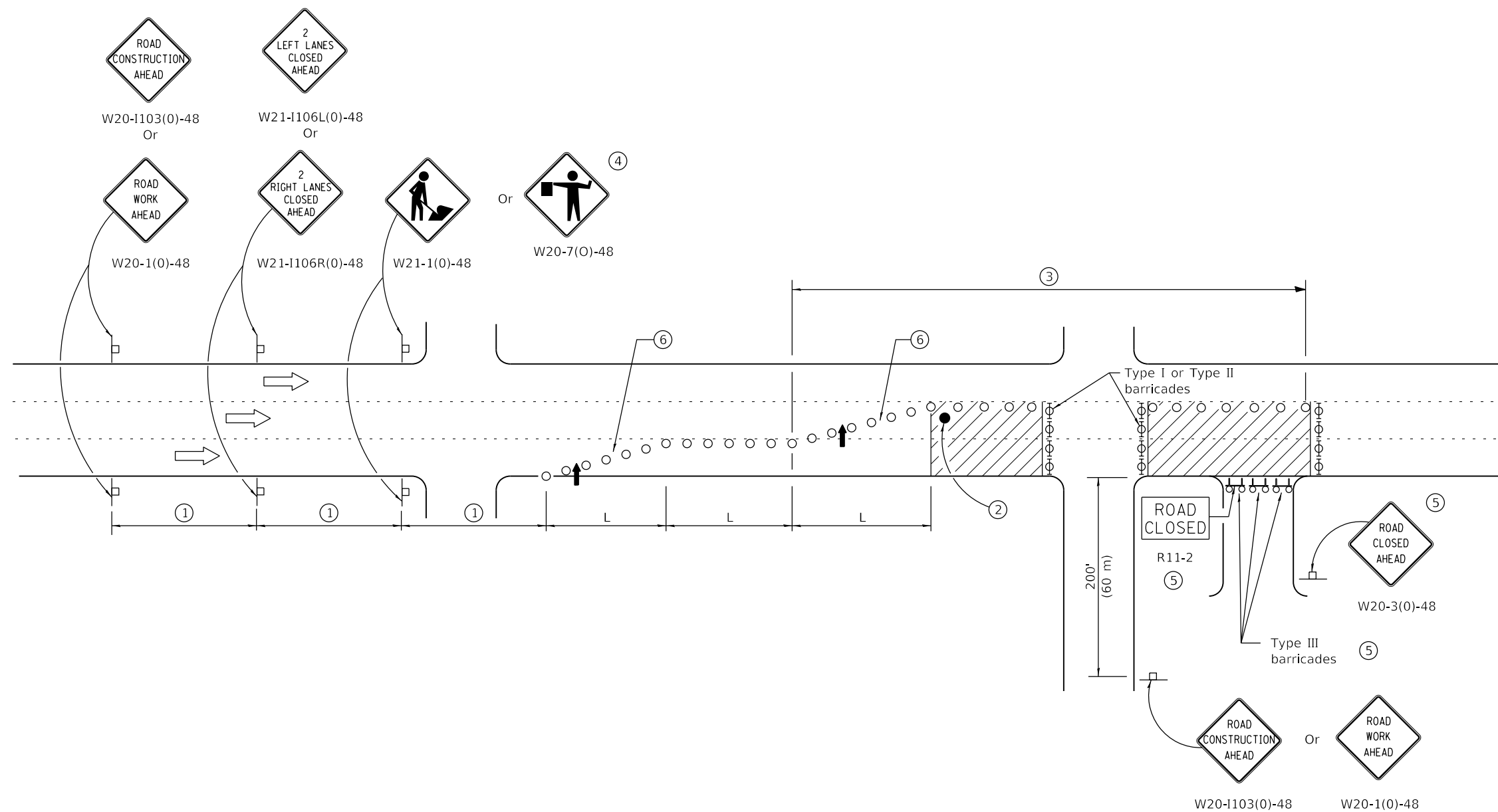
Illinois Department of Transportation	
PASSED <u>January 1</u> 2014	ISSUED 1-1-97
<u>Amelia Q. Davis</u> ENGINEER OF SAFETY ENGINEERING	
APPROVED <u>January 1</u> , 2014	
<u>Chris R. Davis</u> ENGINEER OF DESIGN AND ENVIRONMENT	

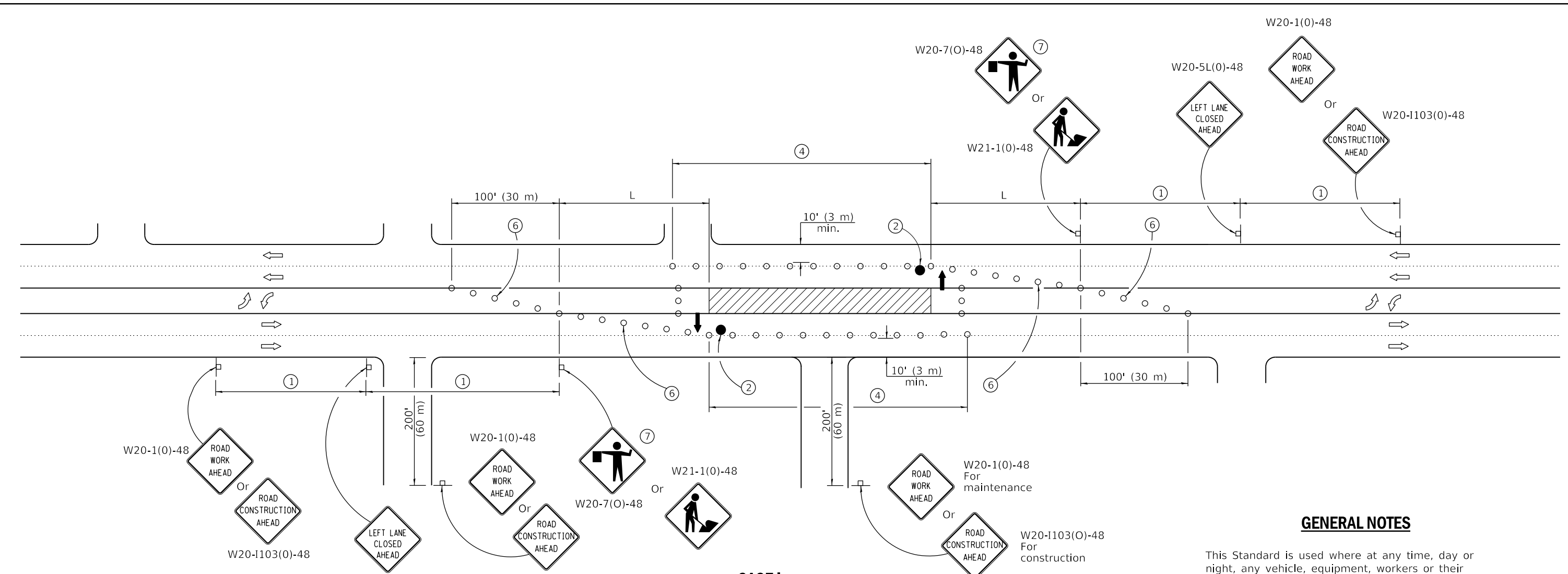
DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

(Sheet 1 of 2)

STANDARD 701601-09





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

- ↑** Arrow board
- Work area
- Barricade or drum with steady burning monidirectional light
- Flagger with traffic control sign
- Cone, drum or barricade
- Sign on portable or permanent support
- Type III barricade with flashing lights

SYMBOLS

CASE I

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (164 m) or 1 block, repeat every 1 mile (1.6 km).
- ④ Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Use flagger sign only when flagger is present.

GENERAL NOTES

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

If the work operation is performed between 9:00 a.m. and 3:00 p.m. and does not exceed 15 min. Traffic protection shall be as shown for Standard 701426.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$
W = Width of offset in feet (meters).		
S = Normal posted speed mph (km/h).		

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

Illinois Department of Transportation

APPROVED January 1, 2019

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

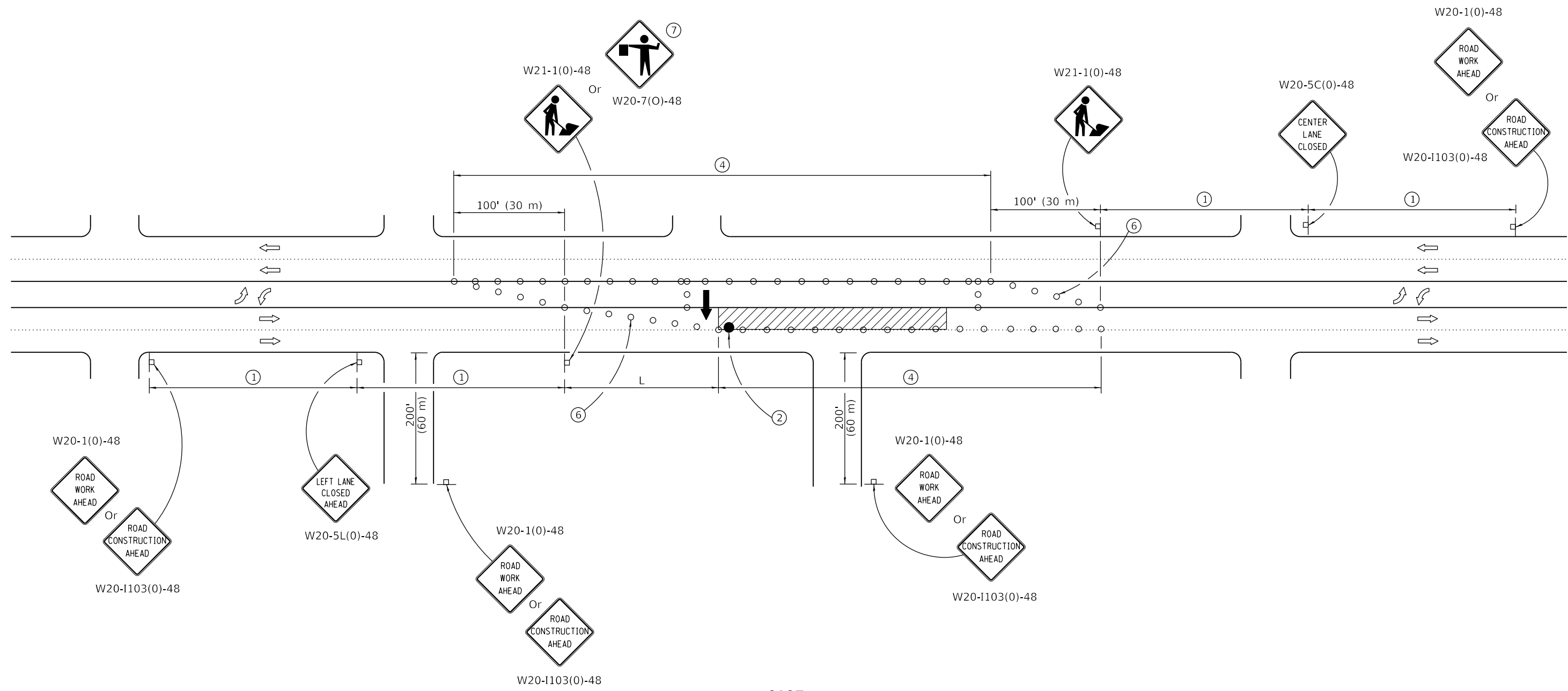
ISSUED 1-1-13

DATE	REVISIONS
1-1-19	Revised to allow cones at night.
1-1-18	Moved arrow boards into closed lanes for CASE I.

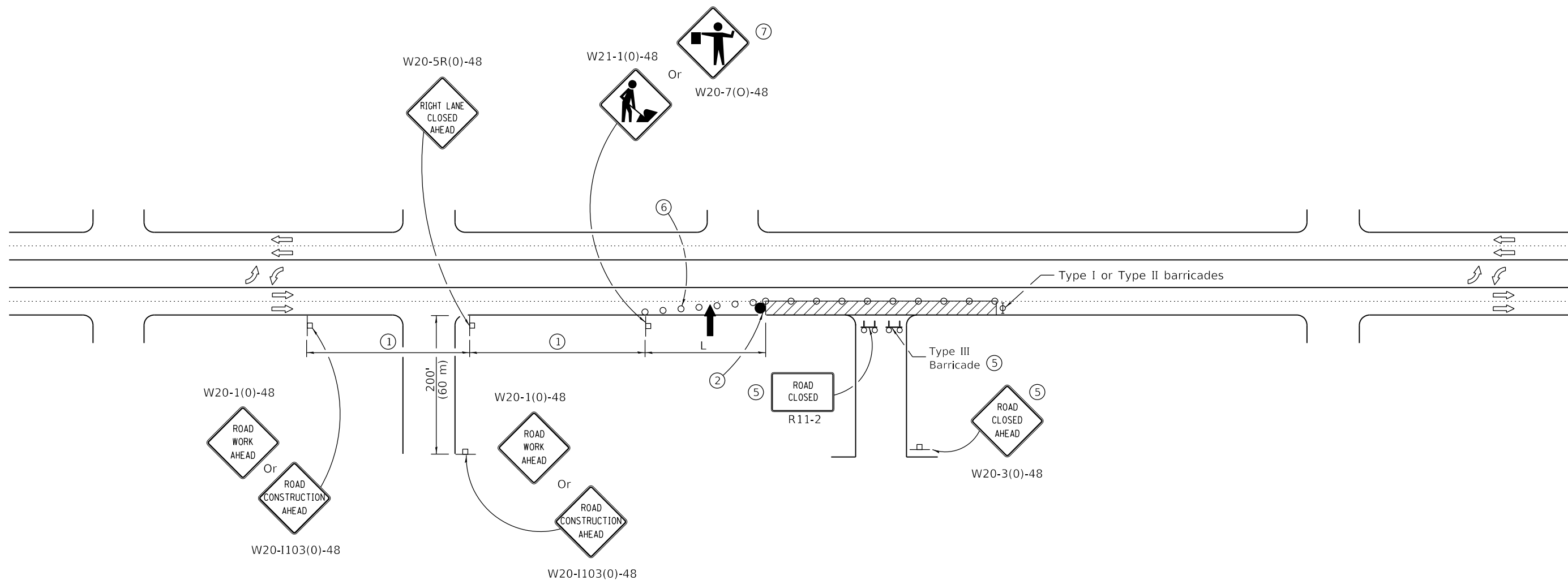
URBAN LANE CLOSURE,
MULTILANE, 2W WITH
BIDIRECTIONAL LEFT TURN LANE

(Sheet 1 of 4)

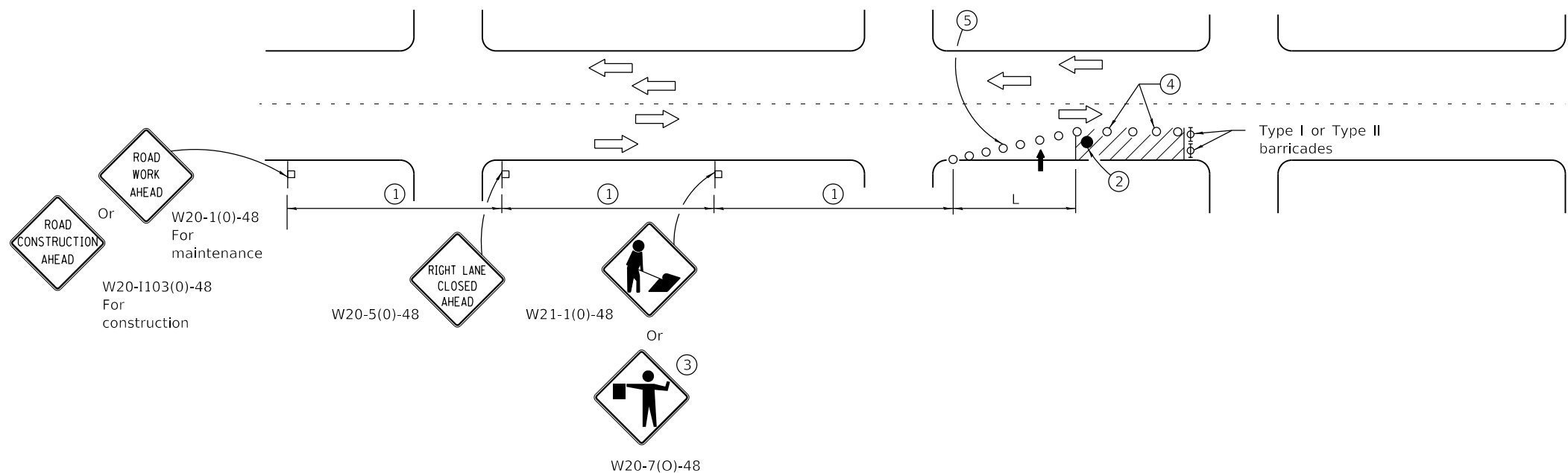
STANDARD 701602-10



CASE III



CASE IV



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

SYMBOLS

- ↑ Arrow board
- Cone, drum or barricade
- ⌋ Sign on portable or permanent support
- ▨ Work area
- ⦿ Barricade or drum with flashing light
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.

GENERAL NOTES

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

Calculate L as follows:

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

W = Width of offset in feet (meters).

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

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

DATE	REVISIONS
1-1-15	Renamed standard. Moved case on Sheet 2 to new Highway Standard.
1-1-14	Revised workers sign number to agree with current MUTCD.

URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

STANDARD 701606-10

Illinois Department of Transportation

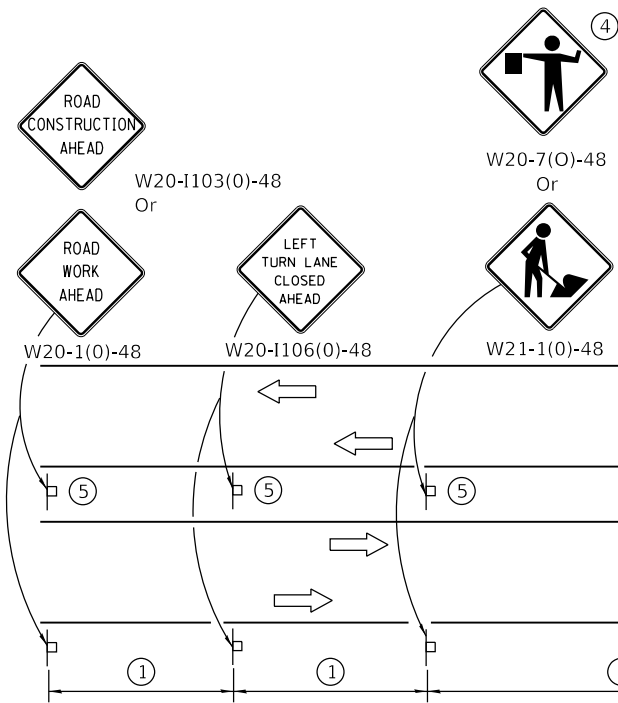
PASSED January 1, 2015

ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2015

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



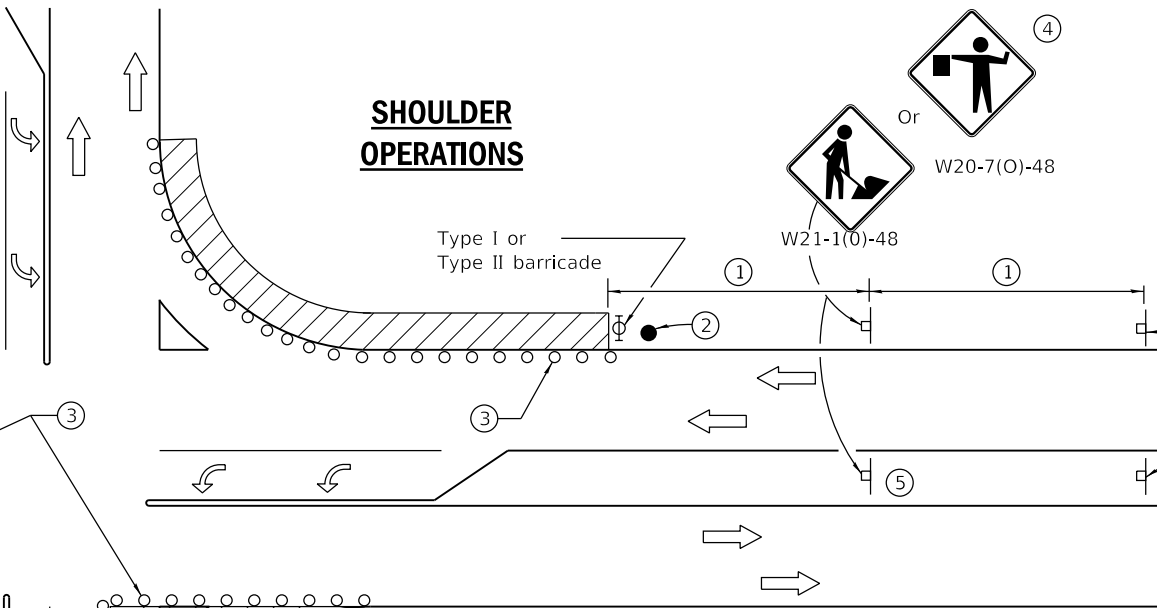
**LEFT TURN LANE OR CENTER
MEDIAN OPERATIONS**

- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Advanced arrow board required for speeds > 45 mph.
- ⑧ Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

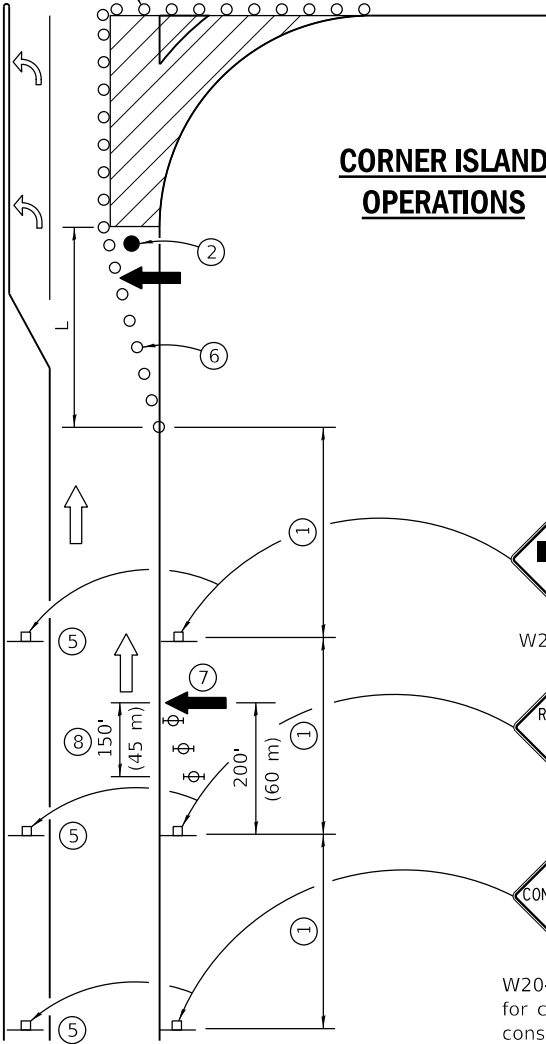
SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

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



**SHOULDER
OPERATIONS**



**CORNER ISLAND
OPERATIONS**

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

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

W = Width of offset in feet (meters).

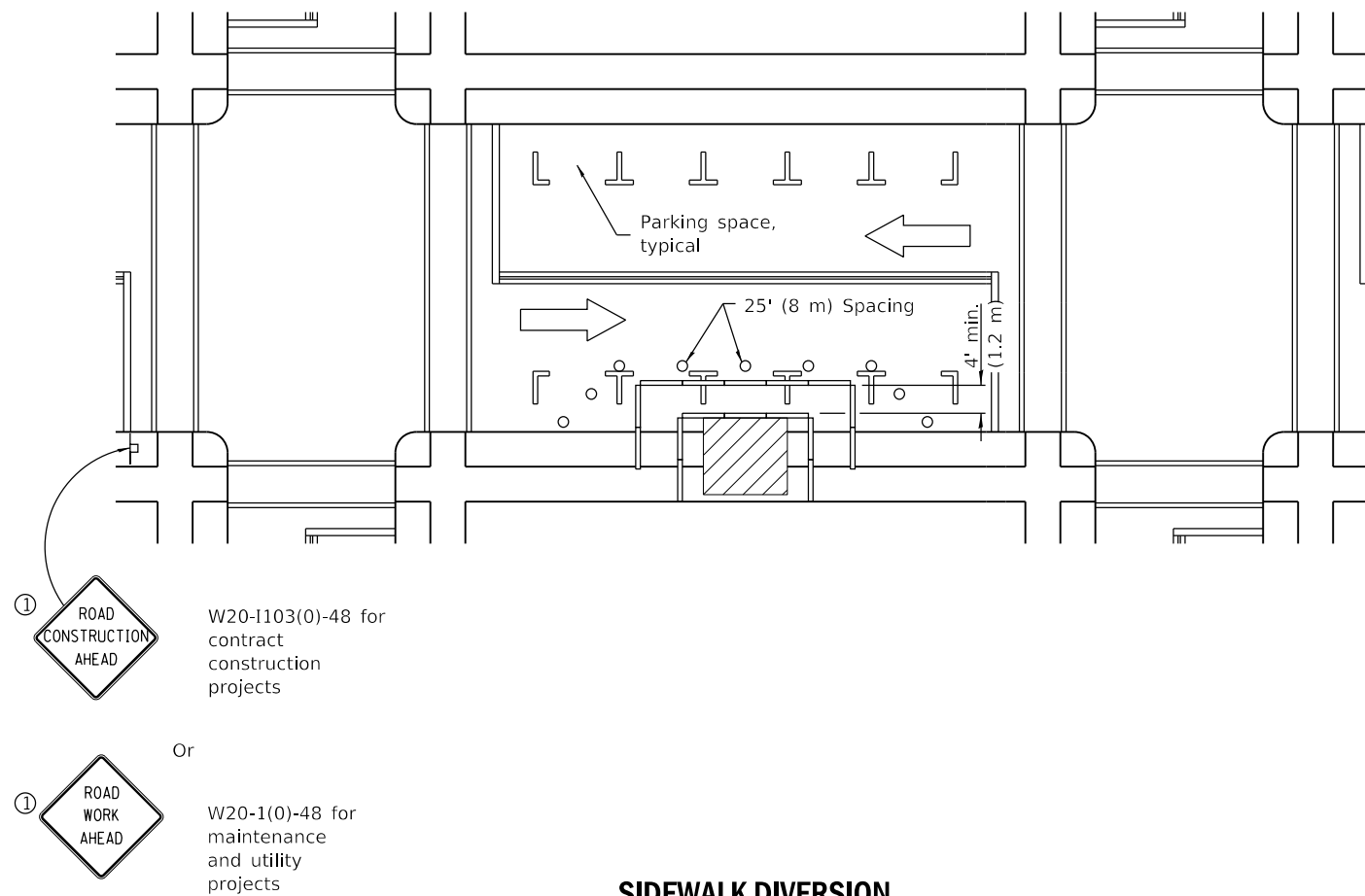
S = Normal posted speed mph (km/h).

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

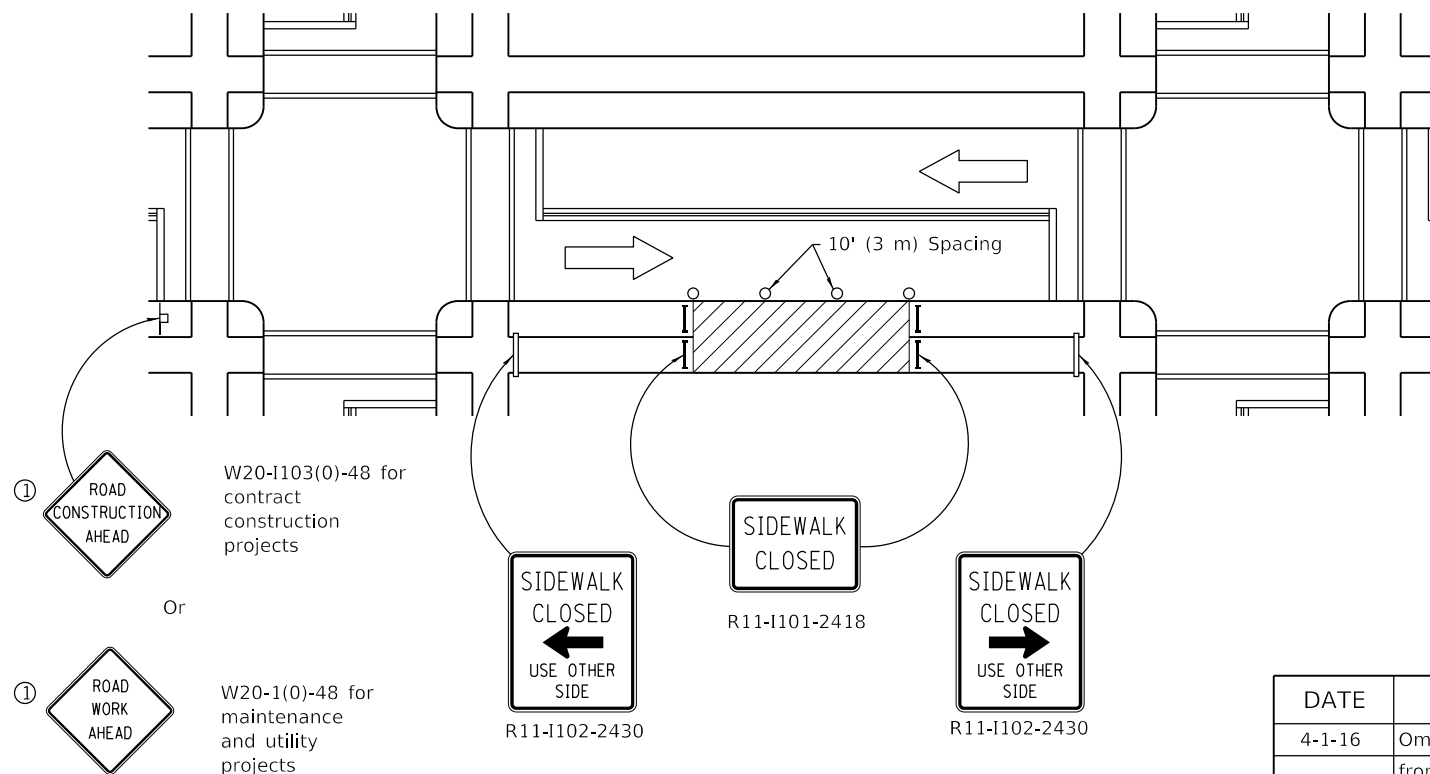
DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-14	Added devices at arrow board upstream from taper.
	Rev. workers sign number.

**URBAN LANE CLOSURE,
MULTILANE INTERSECTION**

STANDARD 701701-10



SIDEWALK DIVERSION



SIDEWALK CLOSURE

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

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

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

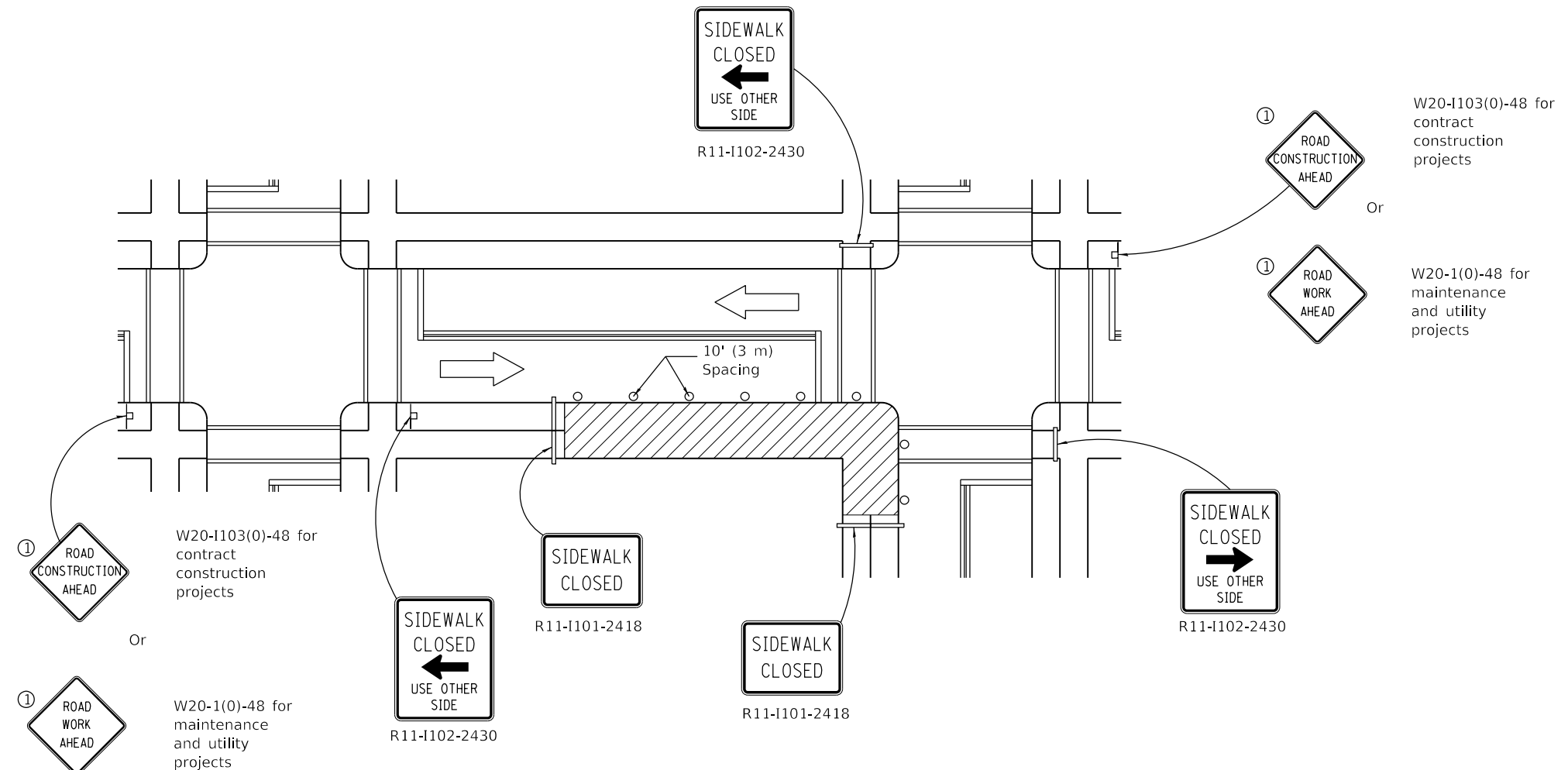
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

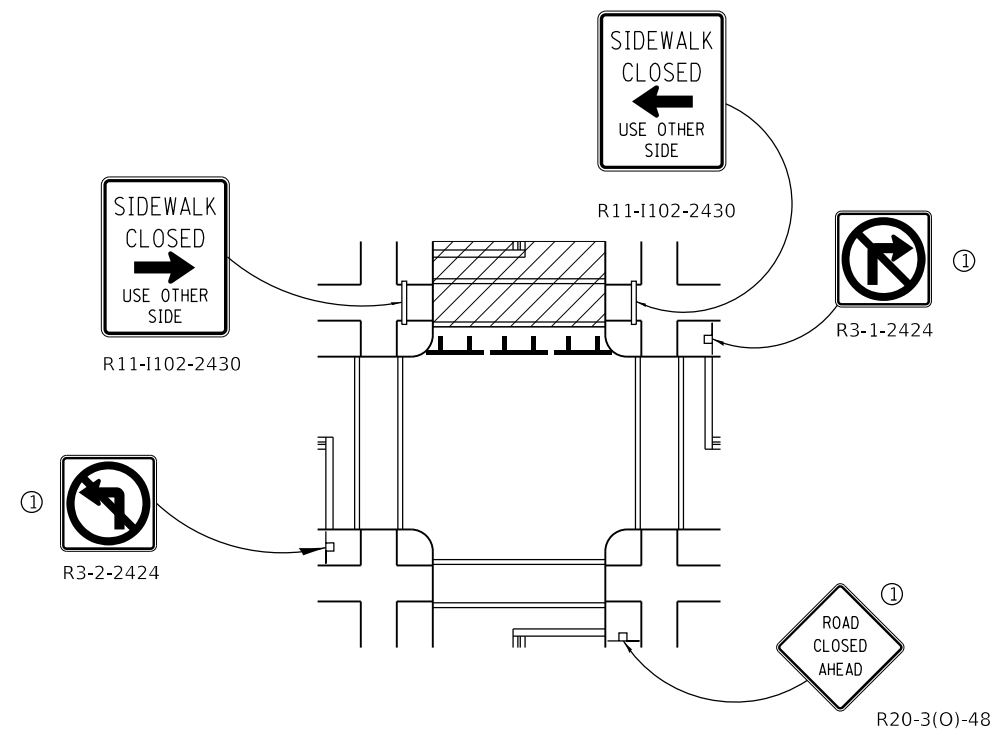
STANDARD 701801-06

Illinois Department of Transportation	
PASSED	April 1, 2016
ENGINEER OF SAFETY ENGINEERING	
APPROVED	April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT	

ISSUED 1-1-97



CORNER CLOSURE



CROSSWALK CLOSURE

W20-I103(0)-48 for
contract
construction
projects

Or

W20-1(0)-48 for
maintenance
and utility
projects

**SIDEWALK, CORNER OR
CROSSWALK CLOSURE**

(Sheet 2 of 2)

STANDARD 701801-06

Orange
Posted speed < 45 mph

Orange
Any posted speed

DAYTIME USE

Any posted speed

Any posted speed

DAY OR NIGHTTIME USE

Any posted speed

Any posted speed

TUBULAR MARKER

Any posted speed

DRUM

Any posted speed

Any posted speed

Any posted speed

TYPE I BARRICADE

TYPE II BARRICADE

TYPE III BARRICADE

Any posted speed

Any posted speed

DIRECTION INDICATOR BARRICADE

VERTICAL BARRICADE

Any posted speed

DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (if required)

Illinois Department of Transportation

APPROVED January 1, 2024

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2024

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

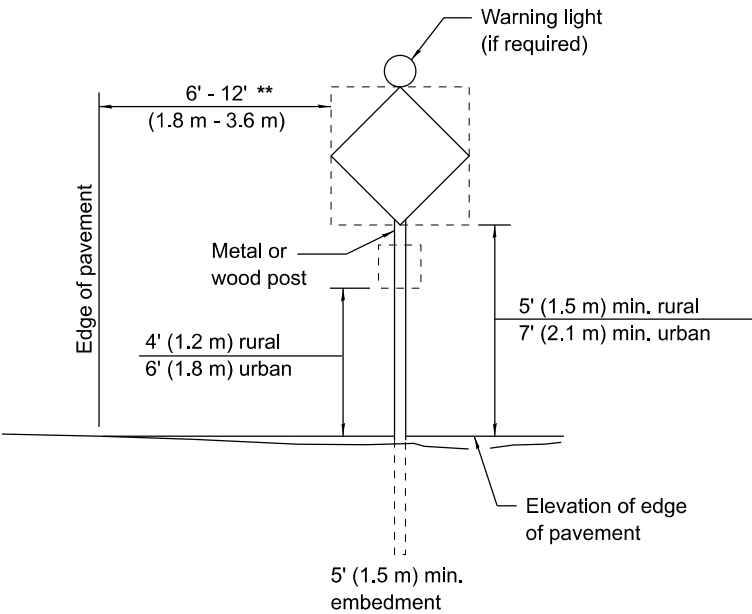
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-24	Revised Type III Barricade notes (sht. 3) & moved warning light on post mounted signs to top center.
1-1-19	Revised cones usage and added cones > 36" (900 mm) height.

TRAFFIC CONTROL DEVICES

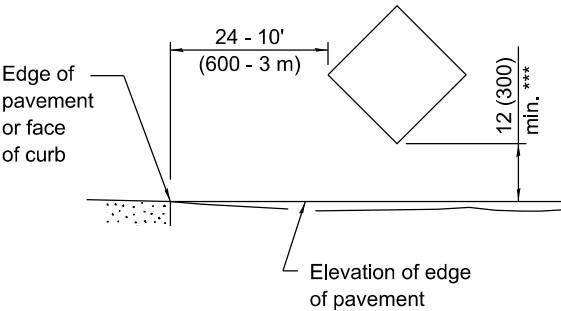
(Sheet 1 of 3)

STANDARD 701901-09



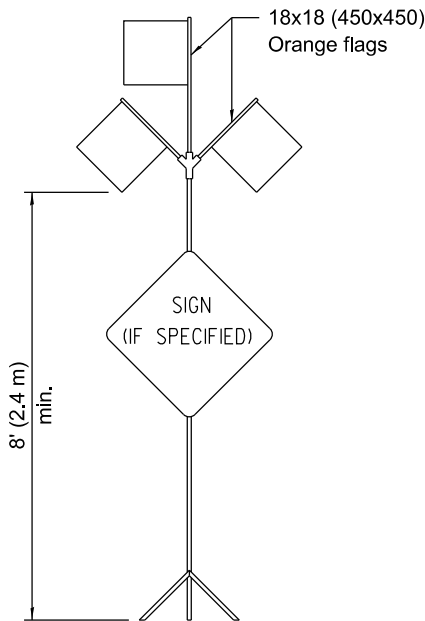
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

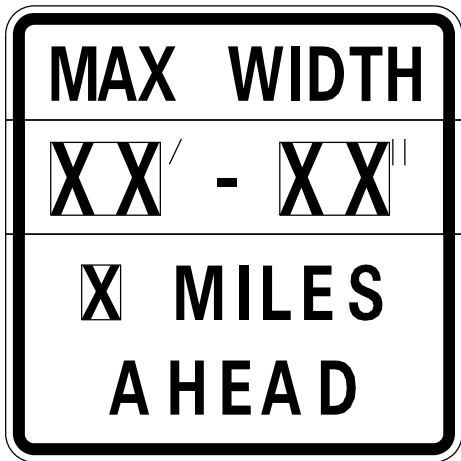


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



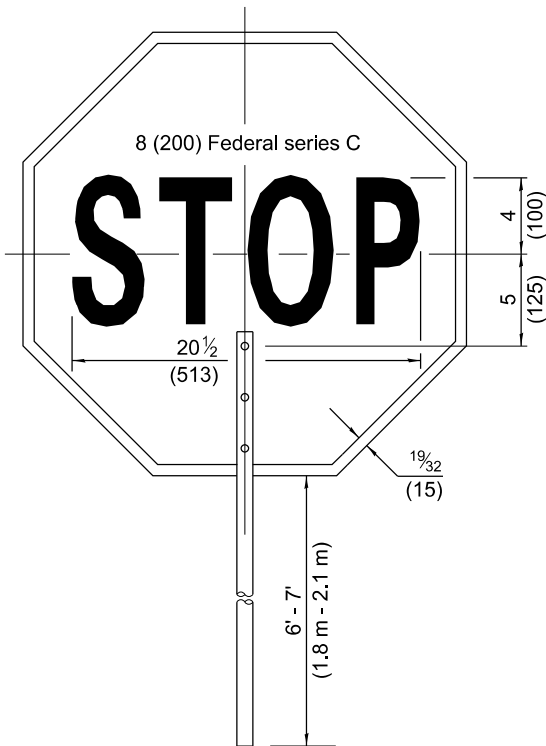
HIGH LEVEL WARNING DEVICE



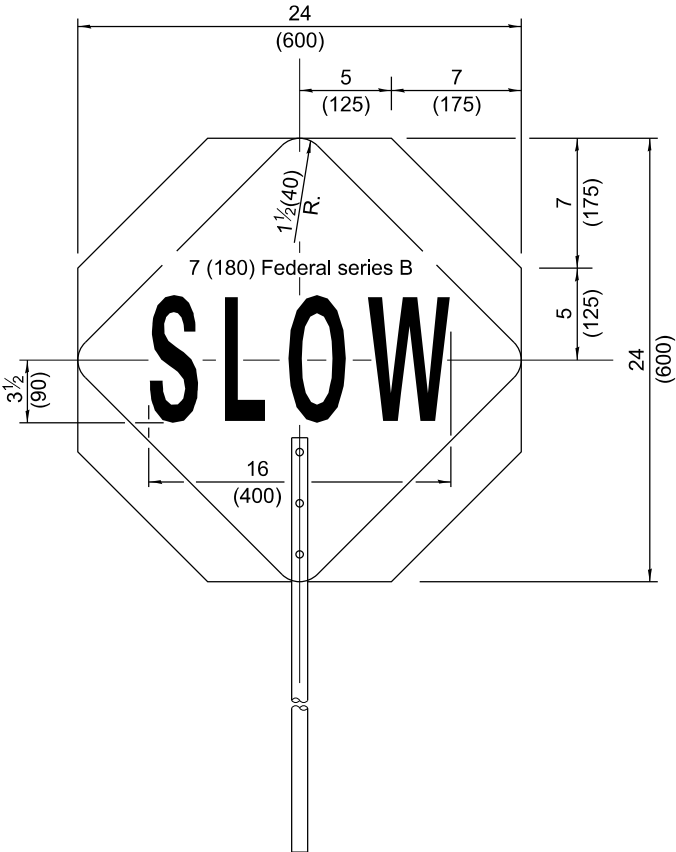
W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
G20-I104(0)-6036	G20-I105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

WORK ZONE	W21-III5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
\$XXX FINE MINIMUM	R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT	G20-I103-6036
---------------------------------	---------------

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION
SPEED ZONE SIGNS**

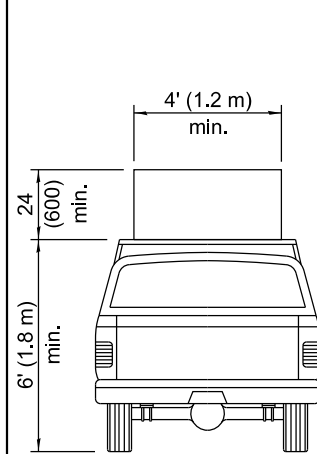
**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL
DEVICES**

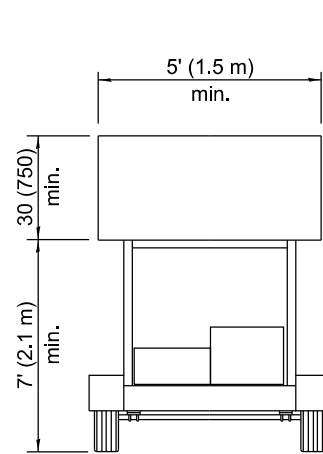
(Sheet 2 of 3)

STANDARD 701901-09

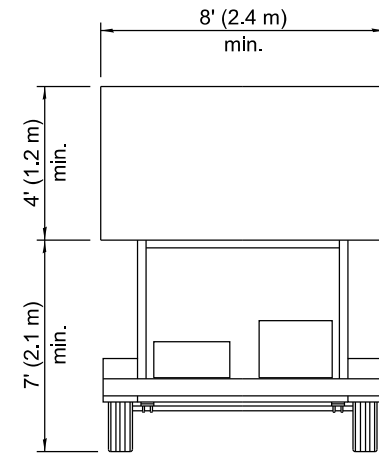
Illinois Department of Transportation	
APPROVED January 1, 2024	ISSUED 1-1-13
ENGINEER OF SAFETY PROGRAM AND ENGINEERING	
APPROVED January 1, 2024	
ENGINEER OF DESIGN AND ENVIRONMENT	



**TYPE A
ROOF
MOUNTED**

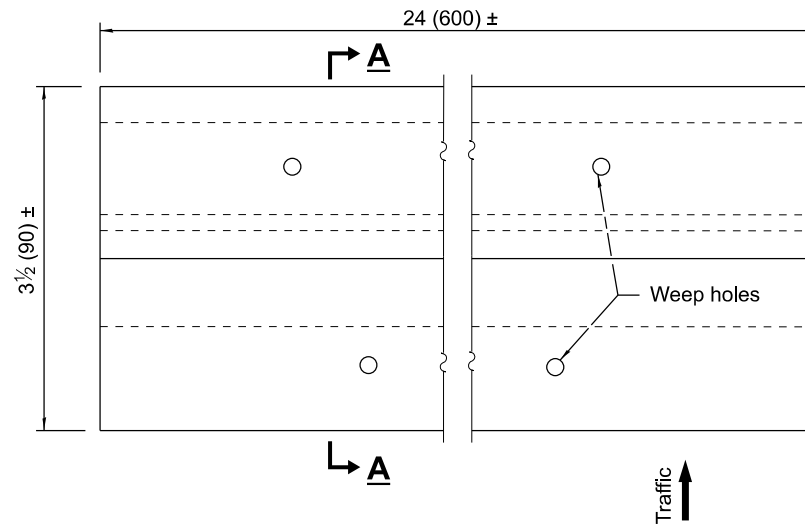


**TYPE B
ROOF OR TRAILER
MOUNTED**

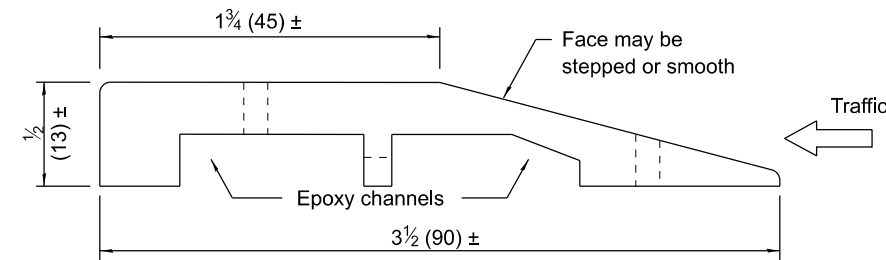


**TYPE C
TRAILER
MOUNTED**

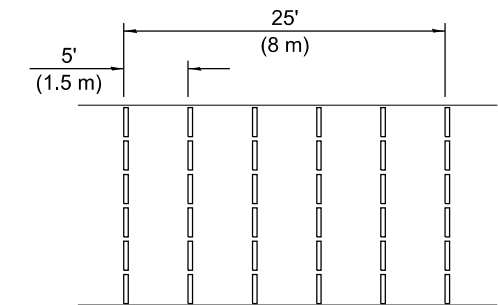
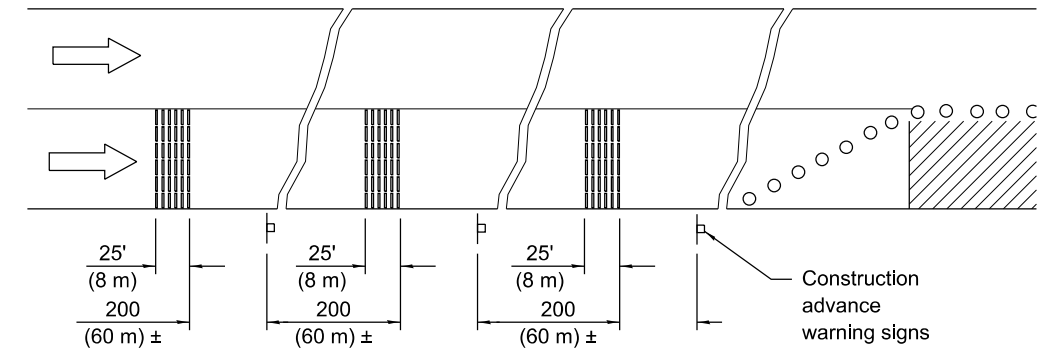
ARROW BOARDS



PLAN

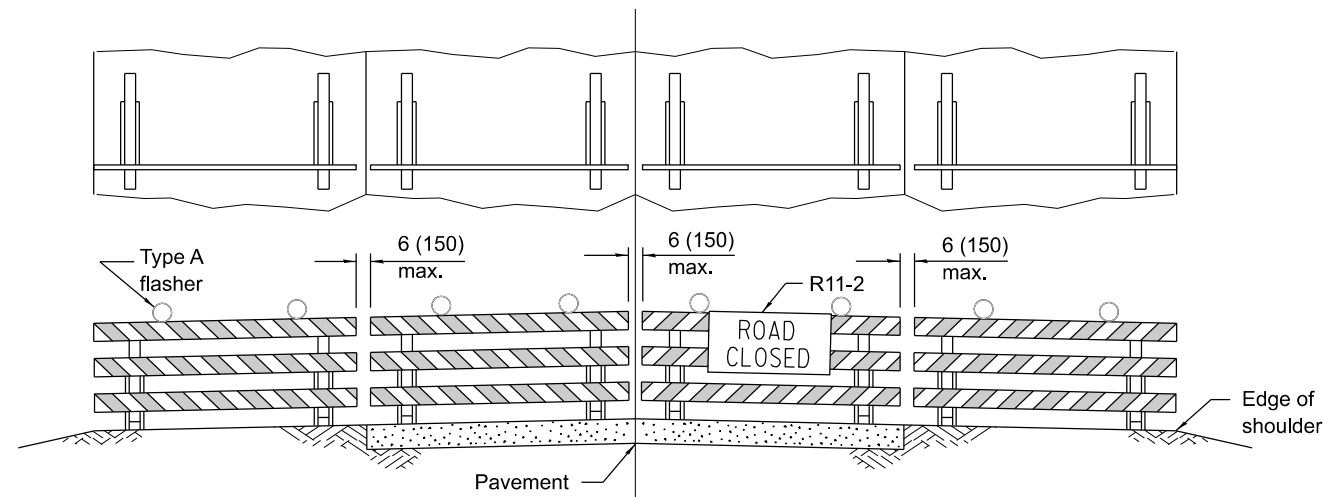


SECTION A-A



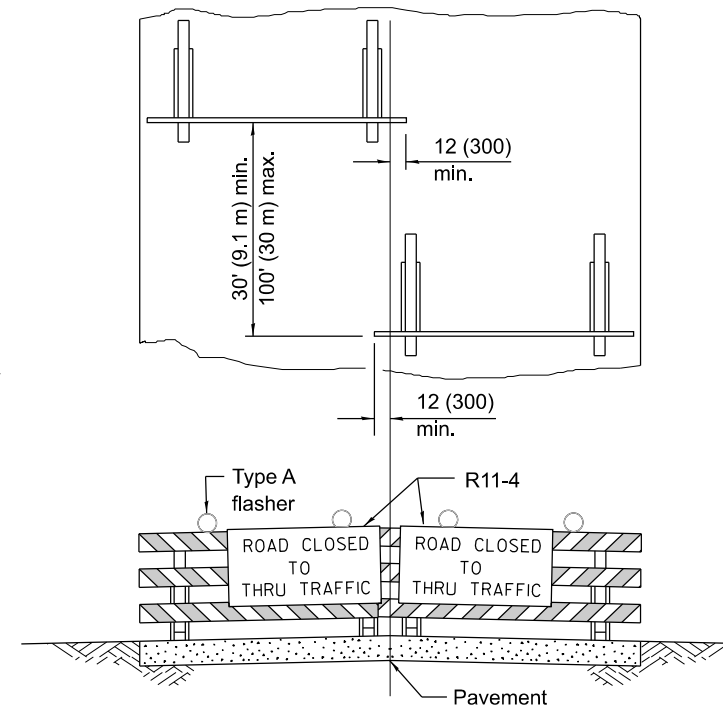
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades.

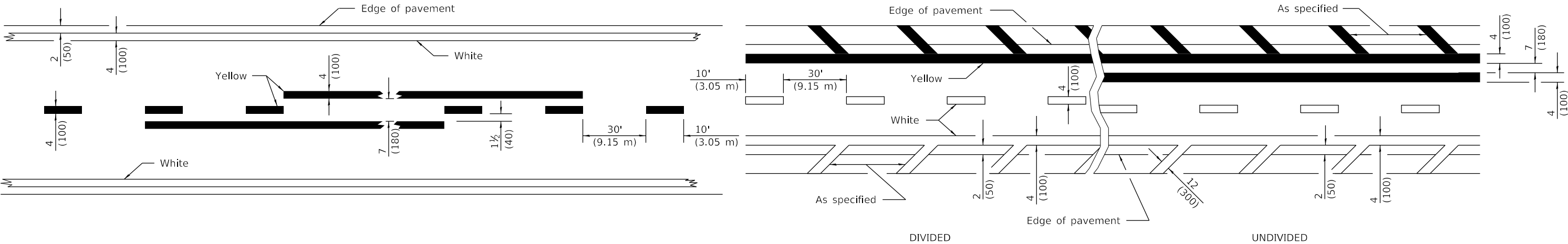


ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

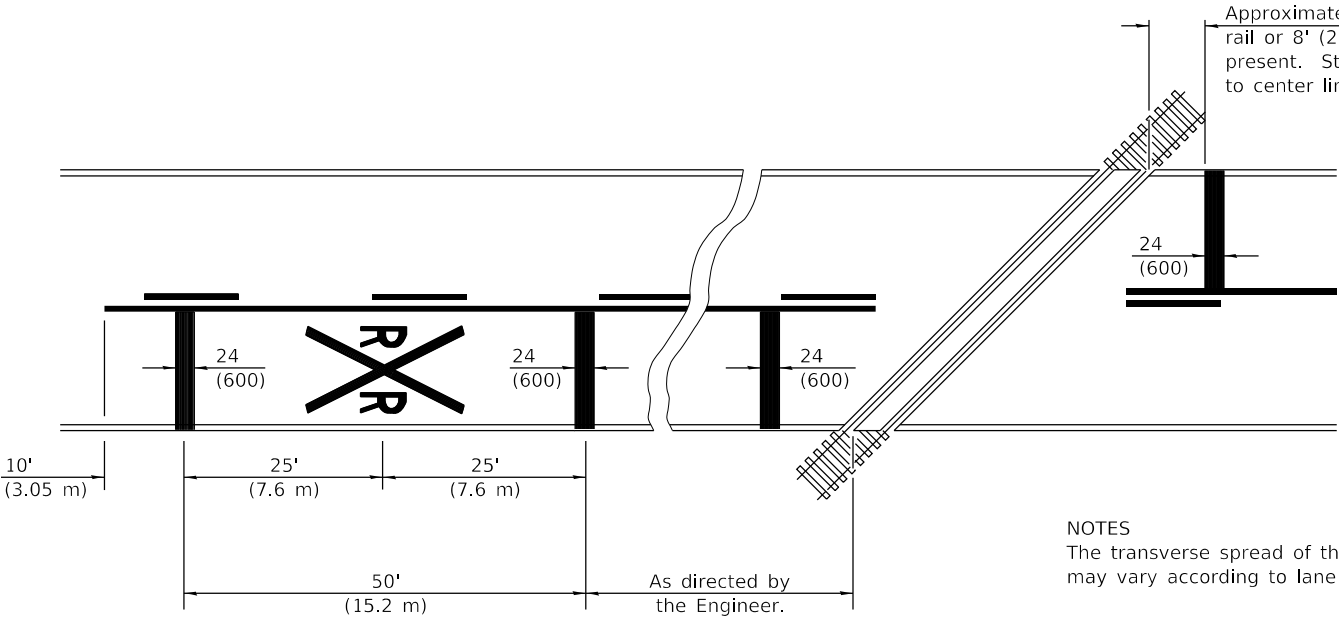
If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.



2 LANE

MULTI LANE

LANE AND EDGE LINES

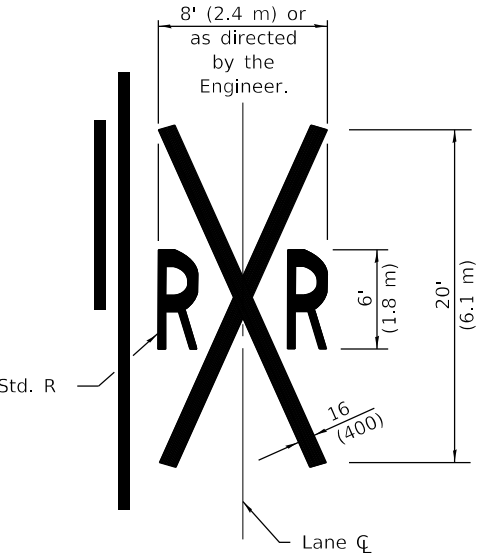


NOTES

The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING


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

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed 'LANE DROP ARROW' detail to 'LANE-REDUCTION ARROW'.

TYPICAL PAVEMENT MARKINGS

(Sheet 1 of 3)

STANDARD 780001-05



Illinois Department of Transportation

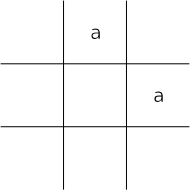
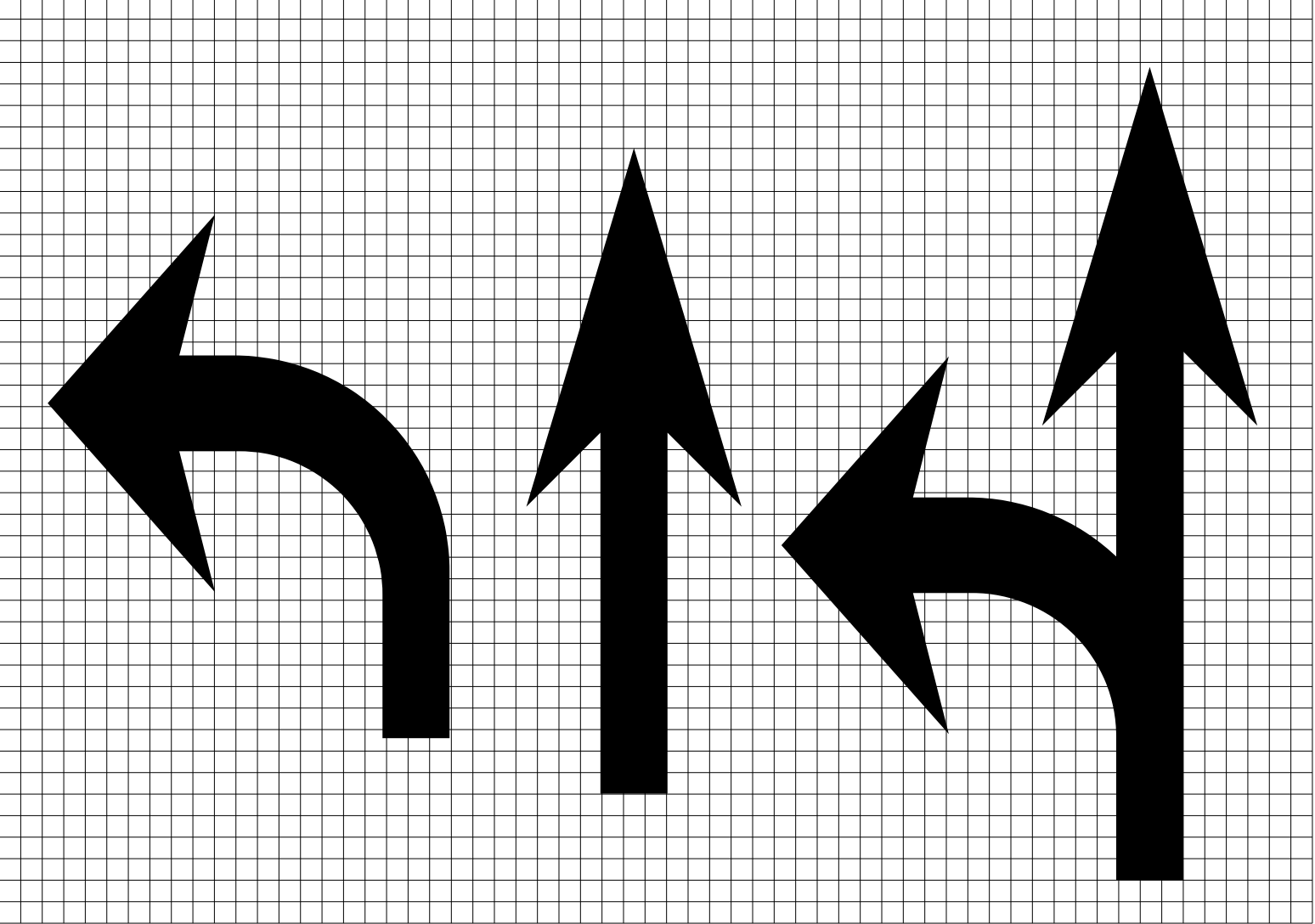
PASSED January 1, 2015

ENGINEER OF OPERATIONS

APPROVED January 1, 2015

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

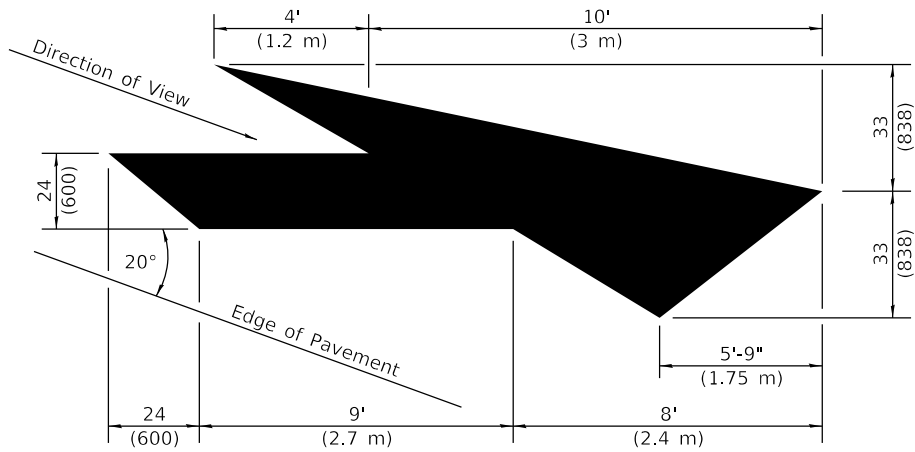
The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

LETTER AND ARROW GRID SCALE

TYPICAL PAVEMENT MARKINGS

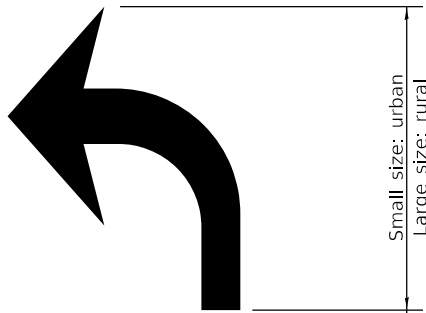
(Sheet 2 of 3)

STANDARD 780001-05



LANE-REDUCTION ARROW

Right lane-reduction arrow shown.
Use mirror image for left lane.

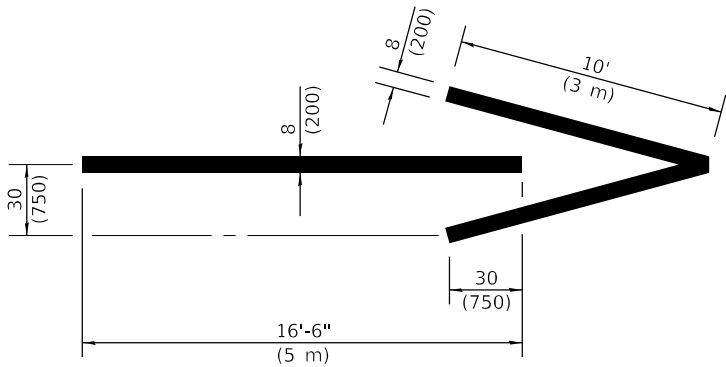


20' (6 m): urban
50' (15 m): rural
(Between arrow
and word or
between words)

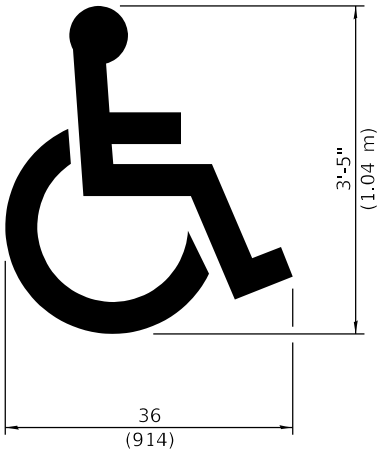
ONLY

6' (1.8 m): urban
8' (2.4 m): rural

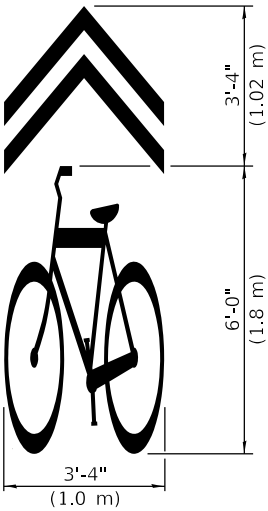
WORD AND ARROW LAYOUT



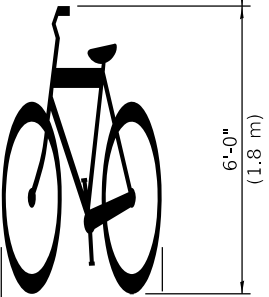
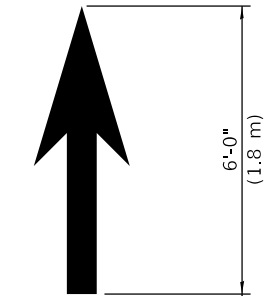
WRONG WAY ARROW



**INTERNATIONAL
SYMBOL OF
ACCESSILITY**



**SHARED LANE
SYMBOL**



BIKE SYMBOL
(Arrow is optional.)