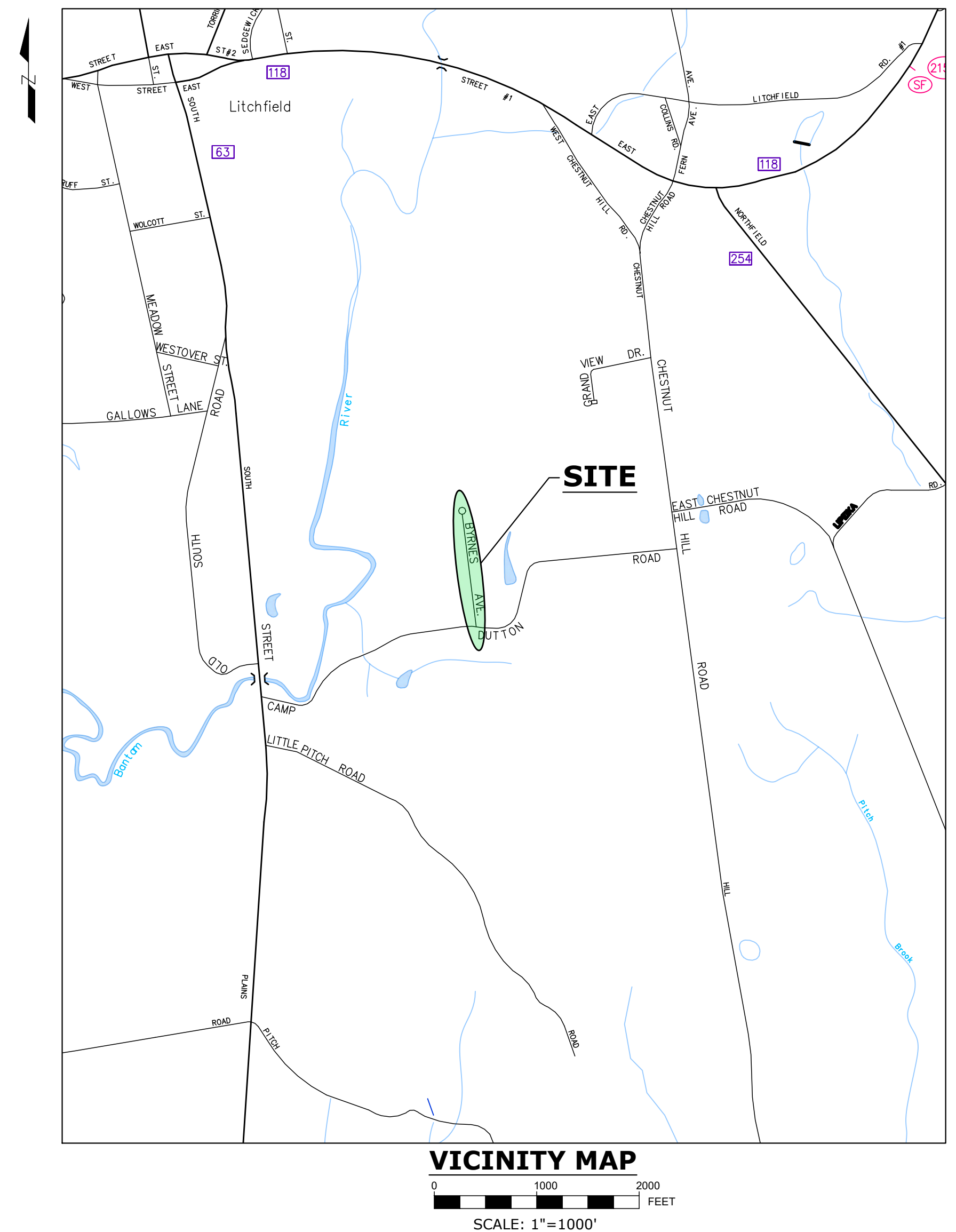


TOWN OF LITCHFIELD ROADWAY AND DRAINAGE IMPROVEMENTS

BYRNES AVENUE
LITCHFIELD, CT

AUGUST 14, 2025

Revisions:



HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING

140 Willow Street
Winsted, Connecticut 06098
860.379.6669

WWW.HALEYWARD.COM

OWNER

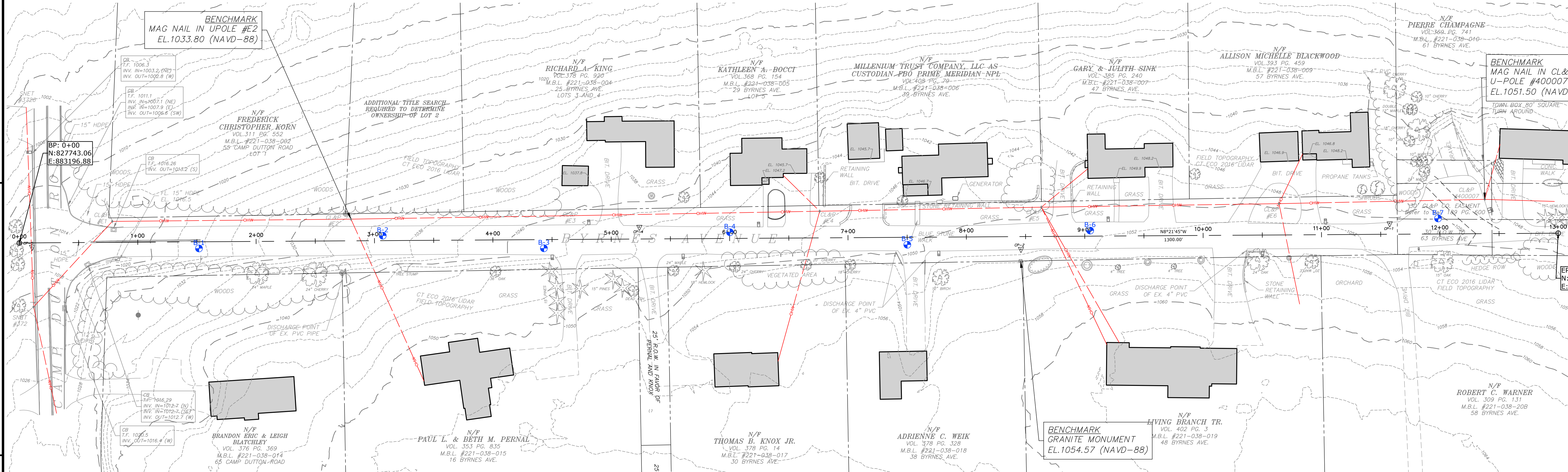
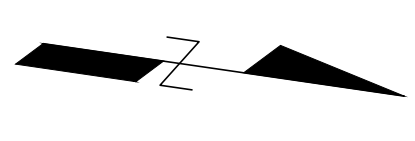
Town Of Litchfield
Raz Alexe P.E.
Director of Public Works / Town Engineer
74 West Street
Litchfield, CT 06759
Phone: (860) 567-7575
email: ralex@townoflitchfield.org

ENGINEER and SURVEYOR

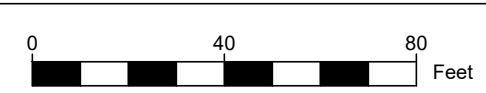
Haley Ward, Inc.
David Battista, P.E., Senior Project Manager
Robert Colabella, P.E., Senior Project Manager
140 Willow Street, Suite 8
Winsted, CT 06098
Phone: (860) 379-6669
e-mail: dbattista@haleyward.com
e-mail: rcolabella@haleyward.com

LIST OF DRAWINGS

SHEET #	SHEET NAME
00	COVER
01	GENERAL NOTES, LEGEND, BORING LOGS & EXISTING CONDITIONS
02	SITE PLAN
03	PROFILE
04	ROADWAY CROSS SECTIONS STA. 0+79 TO 7+00
05	ROADWAY CROSS SECTIONS STA. 7+13 TO 10+31
06	ROADWAY CROSS SECTIONS STA. 10+50 TO 12+50
07	SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS
08	DETAILS
CT DOT STANDARD DRAWINGS	
HW-586_01	CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES
HW-586_07a	CATCH BASIN TYPE "C" AND "C-L" TOPS
HW-586_08	CATCH BASIN FRAMES AND GRATES
TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES



EXISTING CONDITIONS PLAN



SCALE: 1"=40'

LEGEND

EXISTING	PROPOSED

GENERAL NOTES

- These Contract Drawings were prepared using Imperial units unless otherwise noted.
- Contractor shall construct, install, and maintain all soil erosion and sediment control measures in accordance with the Connecticut Department of Transportation Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 819, 2024, merged with Supplemental Specifications dated July 2022 and Connecticut Guidelines for Soil Erosion and Sediment Control, unless required otherwise by the Technical Specifications.
- Contractor shall maintain and protect traffic throughout the duration of construction in accordance with the Technical Specifications.
- Contractor shall maintain and protect all street and traffic-control signs within the project limits unless directed otherwise by Engineer. The cost of this work shall be included in the Contract Item for "Maintenance and Protection of traffic".
- Contractor may use space at the Litchfield Town Garage - 101 Russell Street Litchfield, CT 06759 for disposal of surplus material, staging, and storage of equipment or construction materials. Prior to transporting or depositing surplus material, staging, storage of equipment or storage of construction materials the Contractor shall obtain permission from the Director of Public Works.
- Topographic and boundary information shown on these drawings was prepared by Berkshire Surveying, LLC. of Bantam, CT. The survey was prepared in accordance with Sections 20-300b-1 through 20-300b-20 of the Regulations of Connecticut State Agencies - (Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. The survey is a LIMITED PROPERTY SURVEY based on a RESURVEY and conforms to a Vertical Accuracy Class of T-2.

Horizontal Datum based on NAD 83 (2011), CT. State Plane Coordinate System.

Vertical Datum based on NAVD 1988.
- Contractor shall make every effort to protect existing trees, private property, and adjacent roadways from construction-related damage. At Contractor's sole expense, Contractor shall repair, replace, or reconstruct (as directed by Engineer) any items damaged by construction activities, to the pre-construction condition or better.
- Contractor shall coordinate the final limits of roadway reconstruction with Engineer.
- Contractor shall protect all open excavations with adequate fencing and/or barricades, to the satisfaction of Owner, during periods when there is no construction activity. During construction activities, no open excavation shall be left unattended.
- Contractor shall provide continuous access to driveways, mailboxes, and newspaper tubes at all times during construction. Contractor shall make every effort to minimize the duration of temporary, unavoidable access disruptions. Contractor shall make bona fide and timely efforts to coordinate such disruptions with the affected property owners.
- Contractor shall contact CALL-BEFORE-YOU-DIG at 1-800-922-4455 for marking of existing utilities at least 48 hours (excluding weekends and scheduled holidays) in advance of an excavation work.
- Contractor shall be solely responsible for determining the actual location of all subsurface utilities within the limits of construction. The locations of existing subsurface utilities and underground structures shown on these Contract drawings have been compiled from the best available information but have not been field-verified by test pit or survey. Contractor shall consider the horizontal and vertical position of the subsurface utilities shown on these Contract Drawings to be approximate.
- Contractor shall be responsible for the timely coordination of the Work of this Contract with relocation work to be performed by the applicable utility companies (if any).
- Contractor shall coordinate any required temporary support and/or protection of utilities during trenching or excavation operations with the applicable utility companies.
- Contractor will be required to work near overhead and subsurface power, cable TV, and telecommunication lines. Contractor is hereby advised that overhead and subsurface utilities will not be de-energized during prosecution of the Work of this Contract. Contractor shall comply with applicable local, state, and federal safety regulations while working close to overhead or subsurface utilities.
- Contractor shall immediately notify the applicable utility companies and Engineer of any damage to subsurface or overhead utilities. Contractor shall be solely responsible for the cost of repairing all construction-related damage to overhead or sub-surface utilities.
- Prior to any road closure, Contractor shall place adequate warning signs, detour information, and barricades to the satisfaction of Owner. These signs must be removed or otherwise covered when the road is reopened to traffic on an interim basis (e.g., nights, weekends, holidays, or extended shutdowns).

BORING RESULTS

Boring	Soil Description	Blow Count Summary
Boring 1 - Sta. 1+50	0'-4" Asphalt 4'-8" Sand with 1/2" - 3/4" gravel 8'-30" Sand with gravel	Blow Count Summary B-1 Sta. 2+00 0-4" 21 4-10" 21 10-16" See Note 2 16-22" See Note 2 22-28" 11 28-34" 20
Boring 2 - Sta. 3+00	0'-4" Asphalt 4'-8" Sand with 1/2" to 3/4" gravel 10.5'-8" Sand with 1" gravel	Blow Count Summary B-2 Sta. 4+50 0-4" 22 4-10" 26 10-16" 25 16-22" 16 22-28" 16
Boring 3 - Sta. 4+50	0'-4" Asphalt 4'-8" Gray sand with 1/2" to 1" gravel 8'-30" Sand with 1" gravel	Blow Count Summary B-2 Sta. 4+50 0-4" 26 4-10" 26 10-16" 16 16-22" 17 22-28" 16
Boring 4 - Sta. 6+00	0'-5.5" Asphalt 5.5'-8" Sand with 1/2" to 3/4" gravel 8'-17" Sand with 3/4" gravel 17'-30" Sandy clay with little gravel	Blow Count Summary B-2 Sta. 4+50 0-5.5" 28 5.5-11.5" 18 11.5-17.5" 18 17.5-23.5" 13 23.5-29.5" 9
Boring 5 - Sta. 7+50	0'-4" Asphalt 4'-8" Sand with 1/2" to 3/4" gravel 8'-24" Sandy clay with some gravel 24'-48" Sandy clay	Blow Count Summary B-5 Sta. 12+00 0-4" 7 4-24" See Note 1 24-30" 7 30-36" 12 36-42" 12 42-48" 15
Boring 6 - Sta. 7+00	0'-7.25" Asphalt 7.25'-11.25" Loose sand with 3/4" Gravel 11.25'-39" Medium dense sand, little gravel, little silt 39'-63" Sandy clay	Blow Count Summary B-6 Sta. 14+50 0-7.25" See note 1 7.25-39" 7 39-45" 7 45-51" 8 51-57" 7 57-63" 11
Boring 7 - Sta. 12+50	0'-4" Asphalt 4'-13" Sand with 1/2" to 3/4" gravel 13'-36" Dense, brown, clay, 8 1/2 gravel	Blow Count Summary B-7 Sta. 17+00 0-4" 17 4-10" 17 10-16" 17 16-22" 14 22-28" 13

REV. DATE DESCRIPTION BY CHK.

DRAWING ISSUE STATUS

SEMI-FINAL DESIGN

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
140 Willow Street
Winsted, Connecticut 06098
860.379.6669

PROJECT: **BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS**
LITCHFIELD, CONNECTICUT 06759

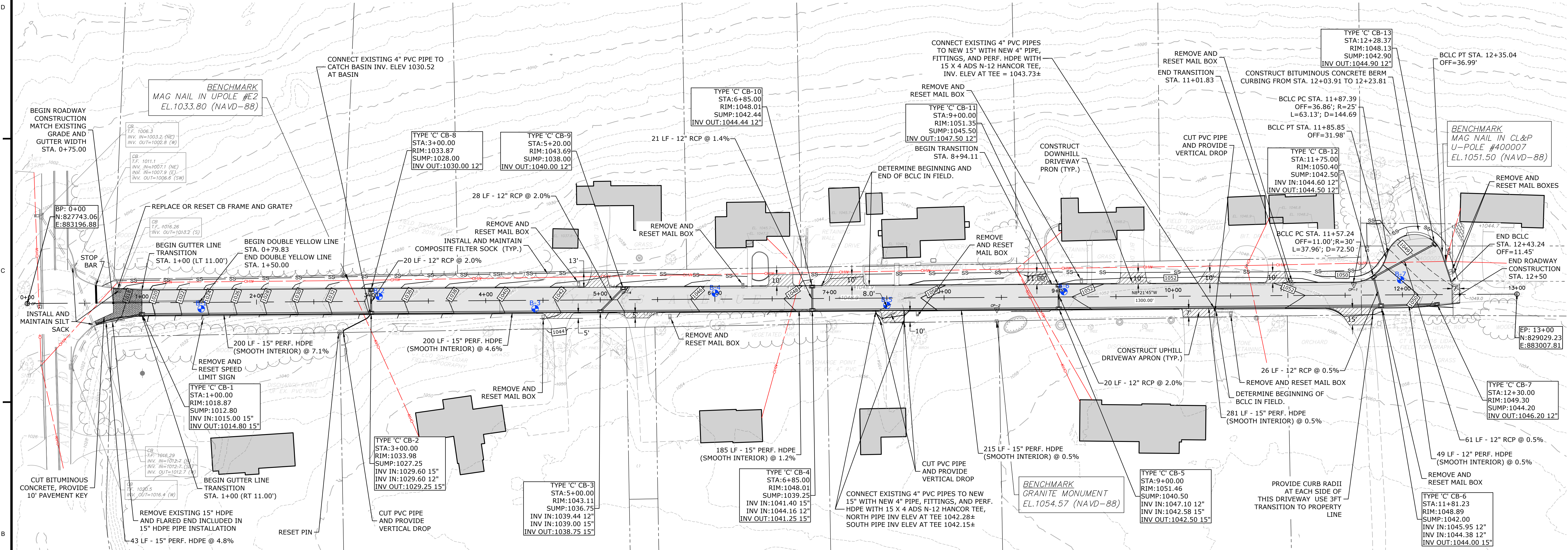
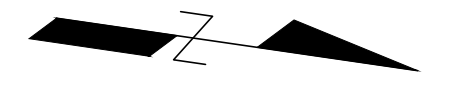
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DATE: August 14, 2025 SCALE: 1"= 40'

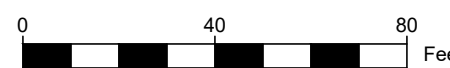
DRAWN BY: CG DESIGNED BY: CG CHECKED BY: DNB

PROJECT No.: 4010188.001

DRAWING No.: **01**



SITE PLAN

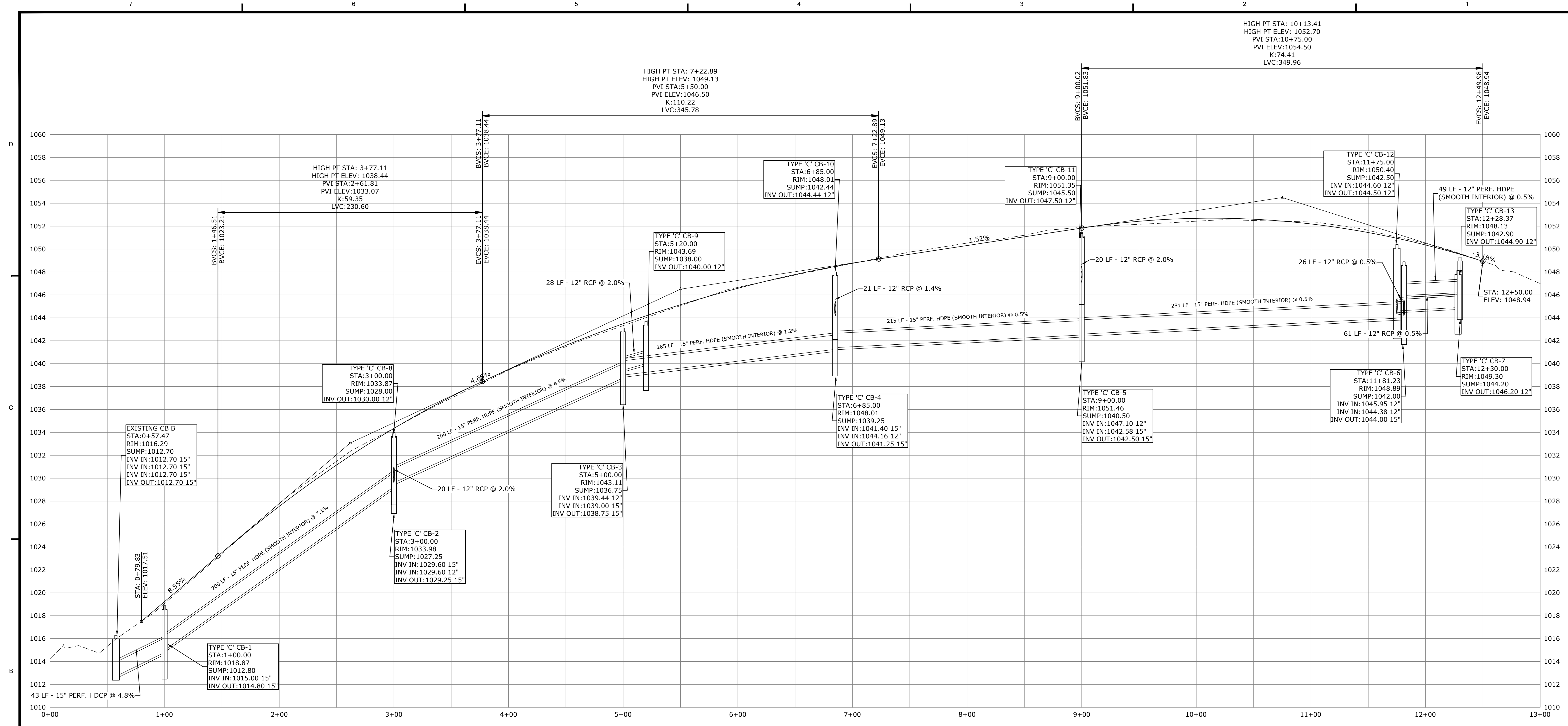


SCALE: 1"=40'

NEW BITUMINOUS LIP CURBING			
	STATION	OFFSET LEFT (ft)	OFFSET RIGHT (ft)
Begin	0+75	12.70	
Bend	1+00	11.00	
End	4+85.58	11.00	
Begin	5+10.5	11.00	
End	6+44.21	11.00	
Begin	6+71.06	11.00	
End*	6+92+/-	11.00	
Begin*	7+35+/-	11.00	
End	8+69.71	11.00	
Begin	8+94.11	11.00	
End	9+50.68	11.00	
Begin	9+79.75	11.00	
End	10+20.04	11.00	
Begin	10+43.15	11.00	
End	10+79.04	11.00	
Begin*	11+01.83	11.00	
End*	12+03.91	53.25	
Begin*	12+23.81	50.87	
End*	12+43.24	11.45	
Begin	0+60.21		18.87
Bend	1+00		11.00
End	4+49.18		11.00
Begin	4+77.84		11.00
End	5+14.20		11.00
Begin	5+51.41		11.00
End	7+42.33		11.00
Begin	7+68.80		11.00
End	10+05.20		11.00
Begin*	10+38.8+/-		11.00
End	11+32.91		11.00
Begin	11+78.97		11.00
End	12+50.00		7.07

*See Plan for Further Instruction


REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
SEMI-FINAL DESIGN				
		HALEY WARD ENGINEERING ENVIRONMENTAL SURVEYING		
WWW.HALEYWARD.COM		140 Willow Street Winsted, Connecticut 06098 860.379.6669		
PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS LITCHFIELD, CONNECTICUT 06759				
TITLE				
SITE PLAN				
DATE	August 14, 2025	SCALE	1"= 40'	
DRAWN BY	CG	DESIGNED BY	CG	CHECKED BY
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PROJECT No.	4010188.001			
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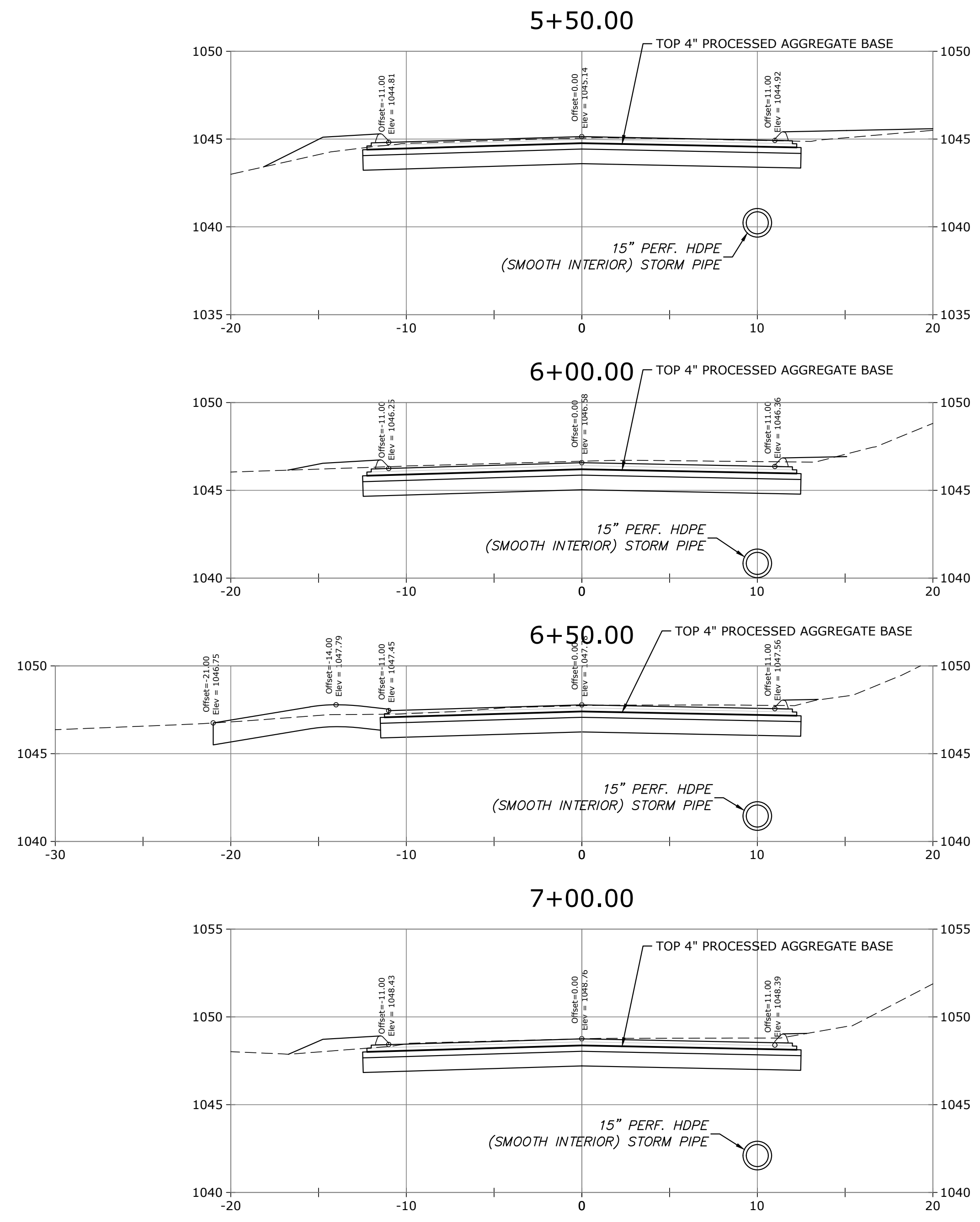
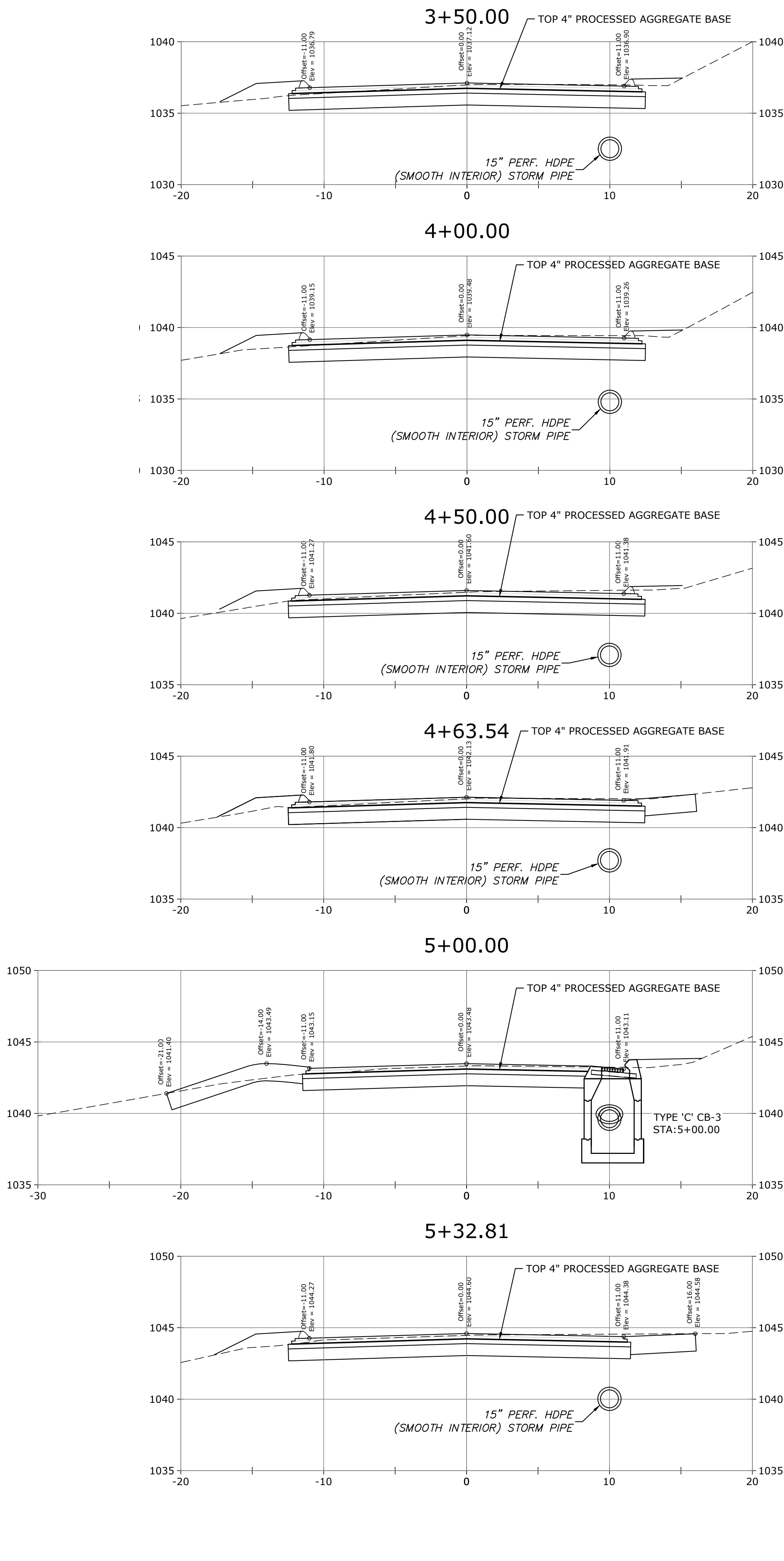
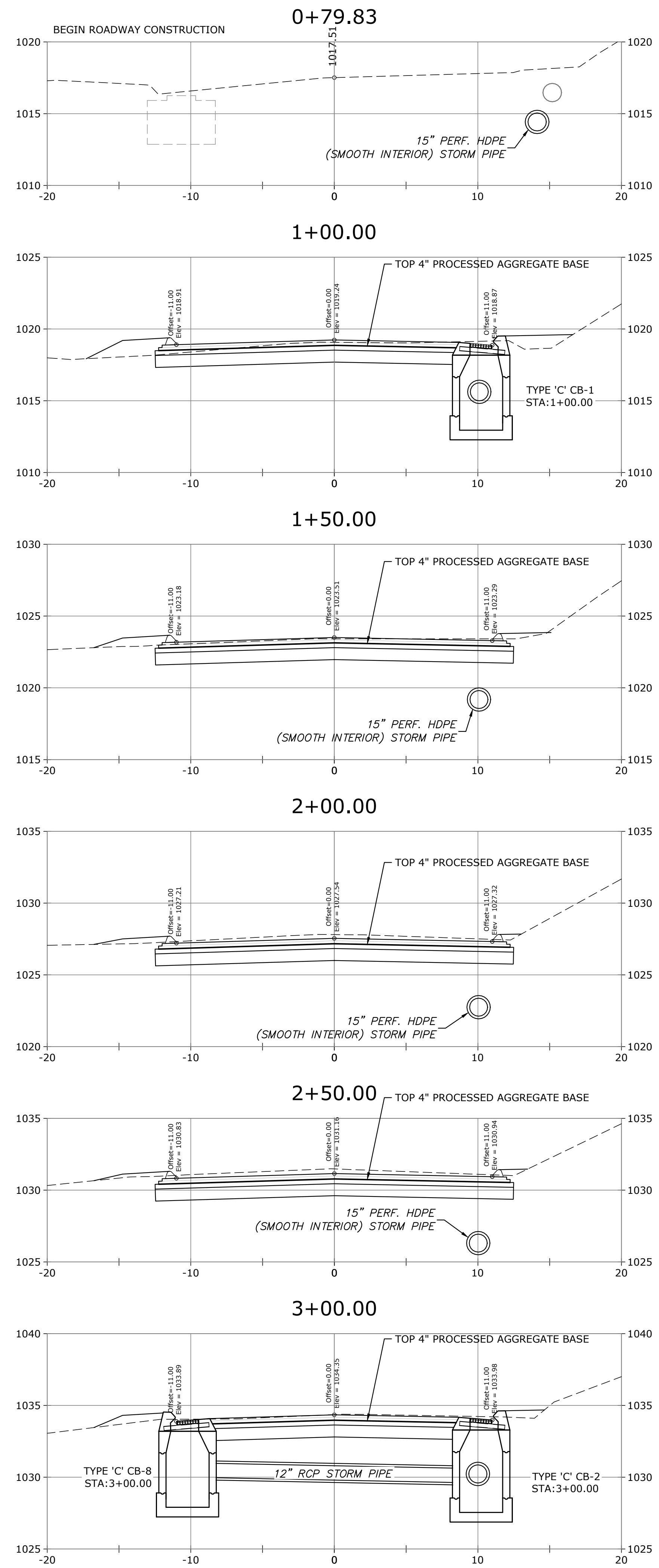
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0 40 80 Feet
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=4'

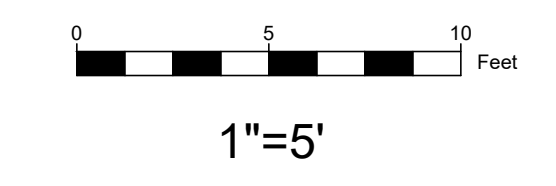
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PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS				
LITCHFIELD, CONNECTICUT 06759				
TITLE				
PROFILE				
DATE		SCALE		
August 14, 2025		AS NOTED		
DRAWN BY	DESIGNED BY	CHECKED BY		
CG	CG	DNB		
PROJECT No.				
4010188.001				
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03				

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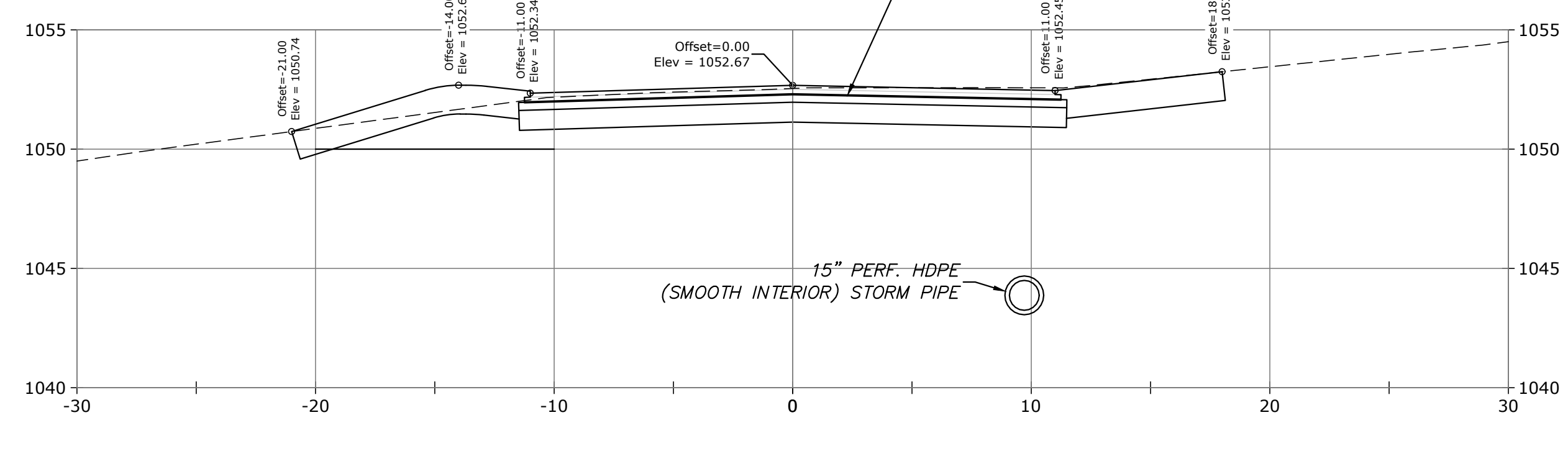
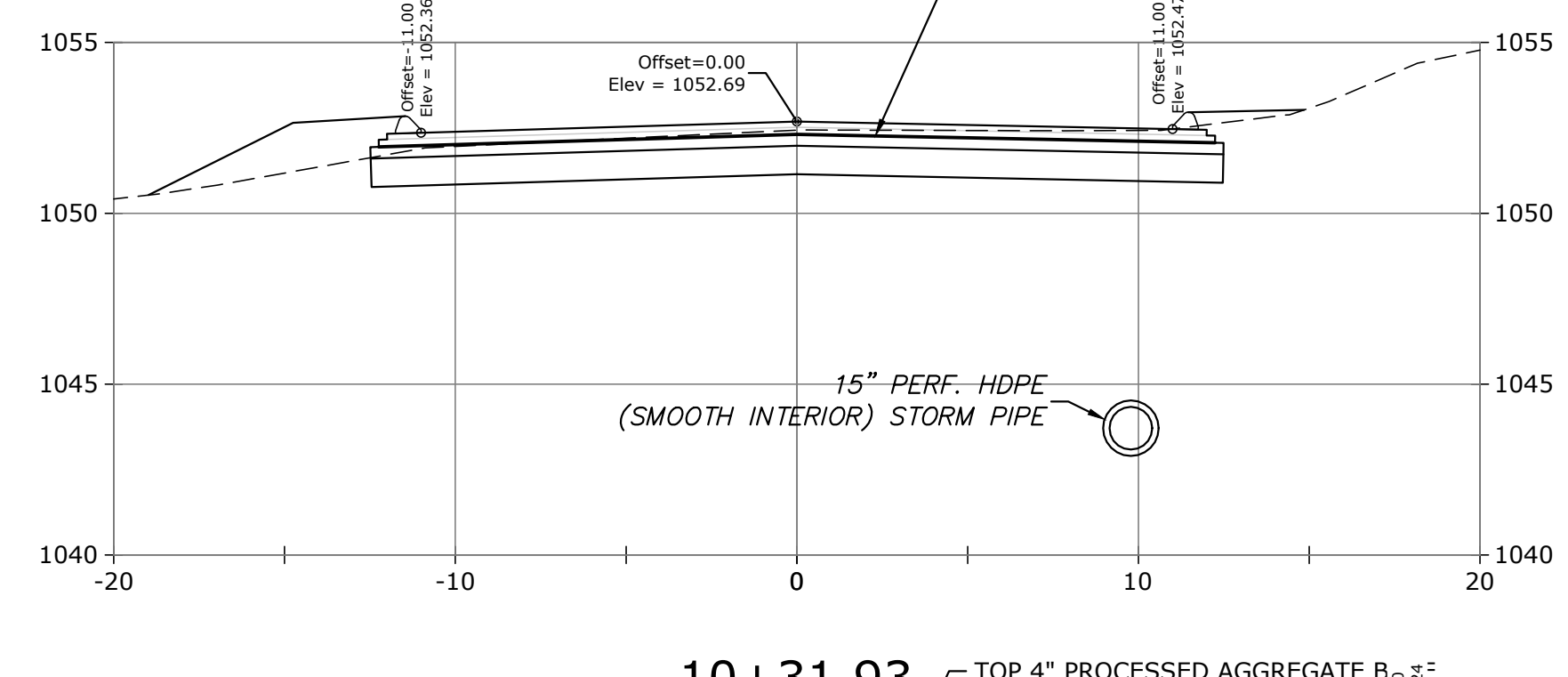
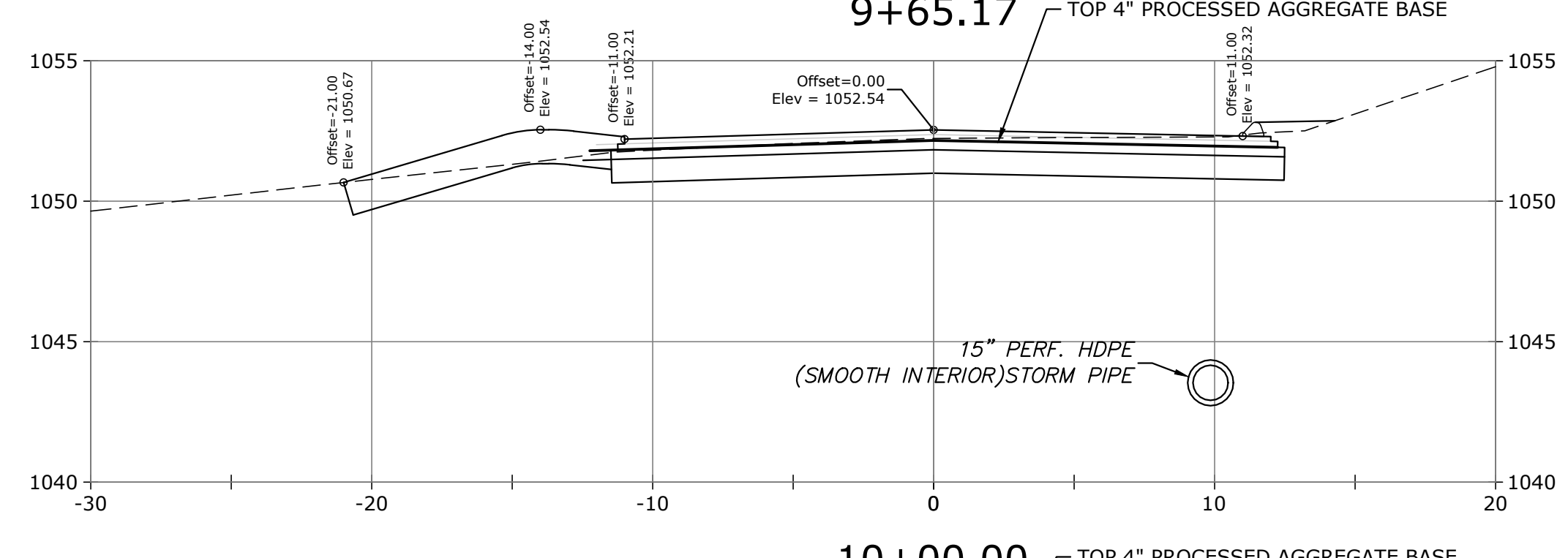
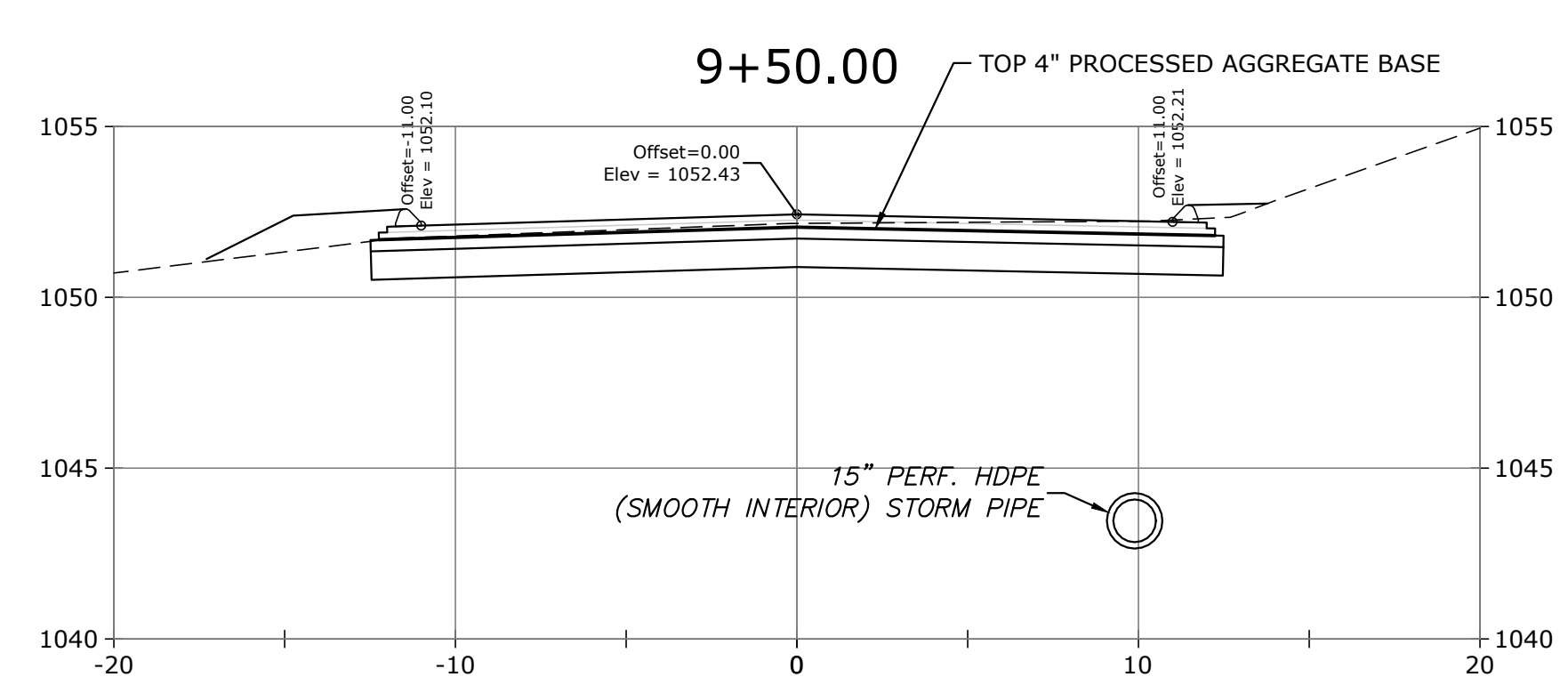
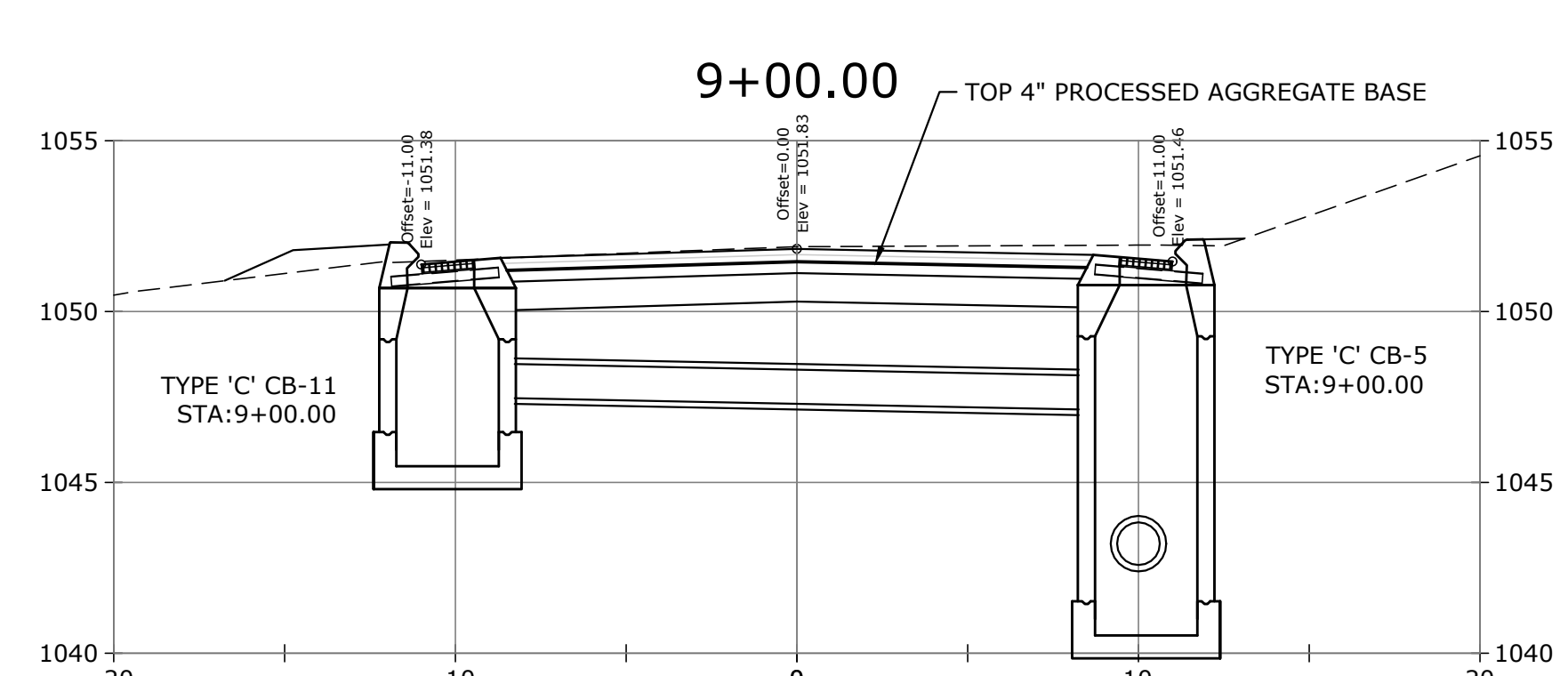
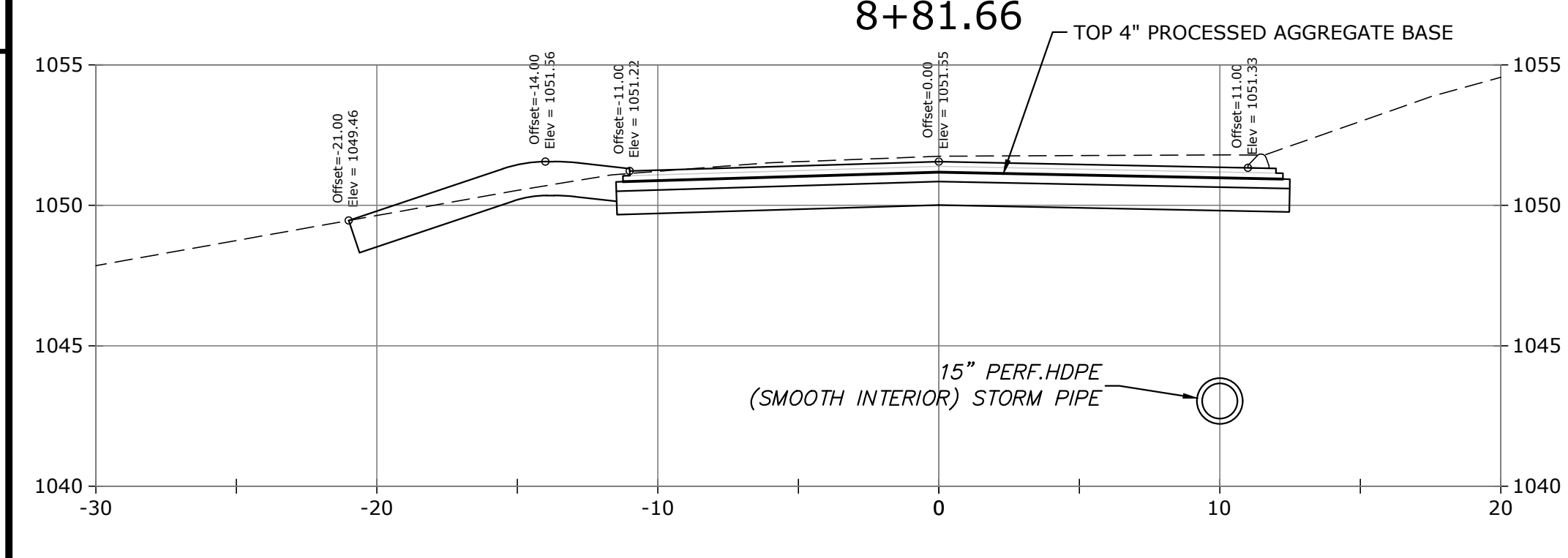
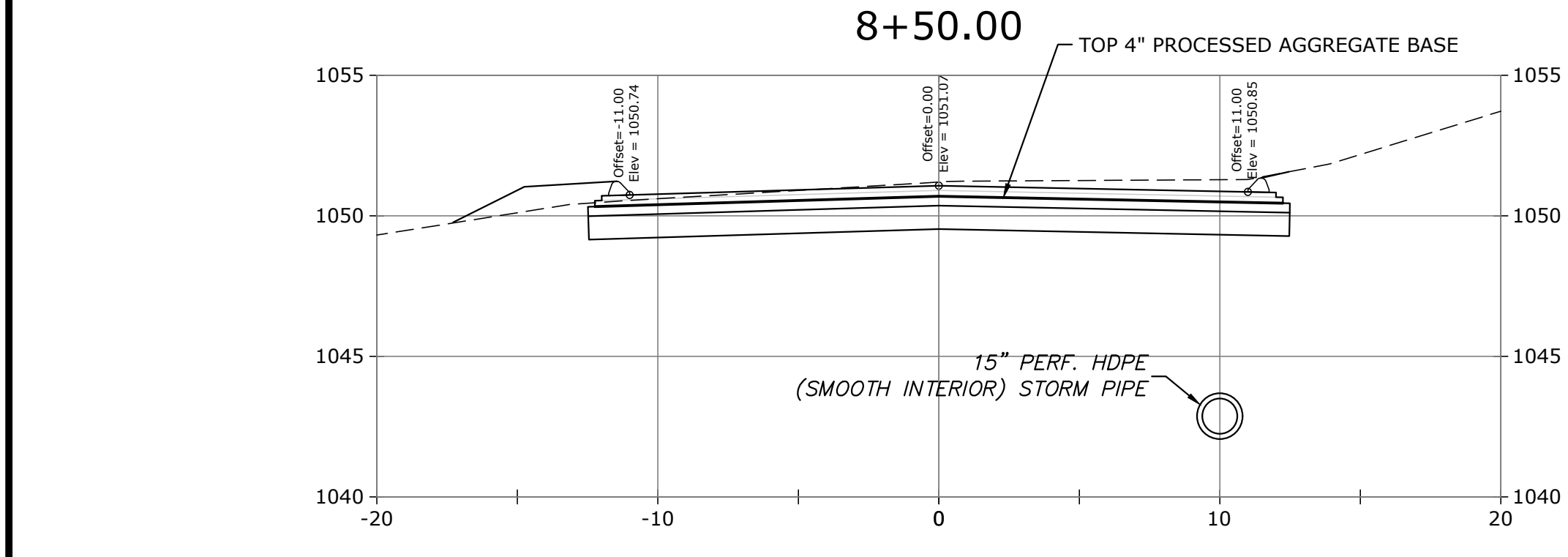
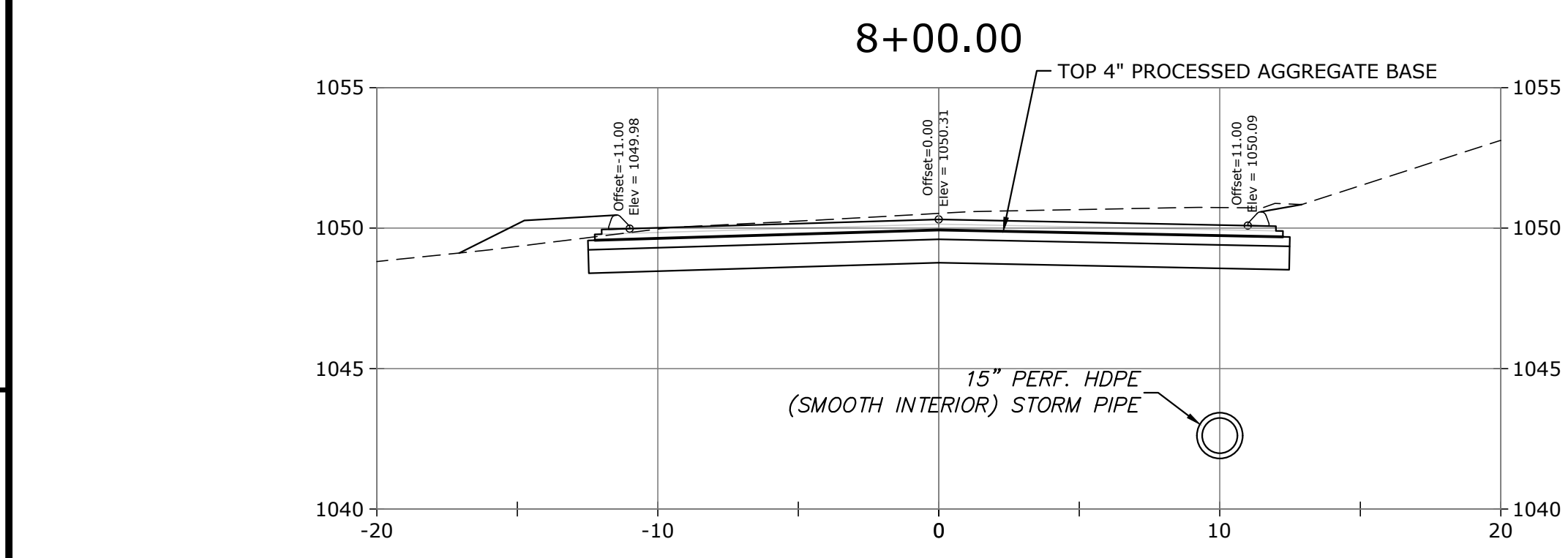
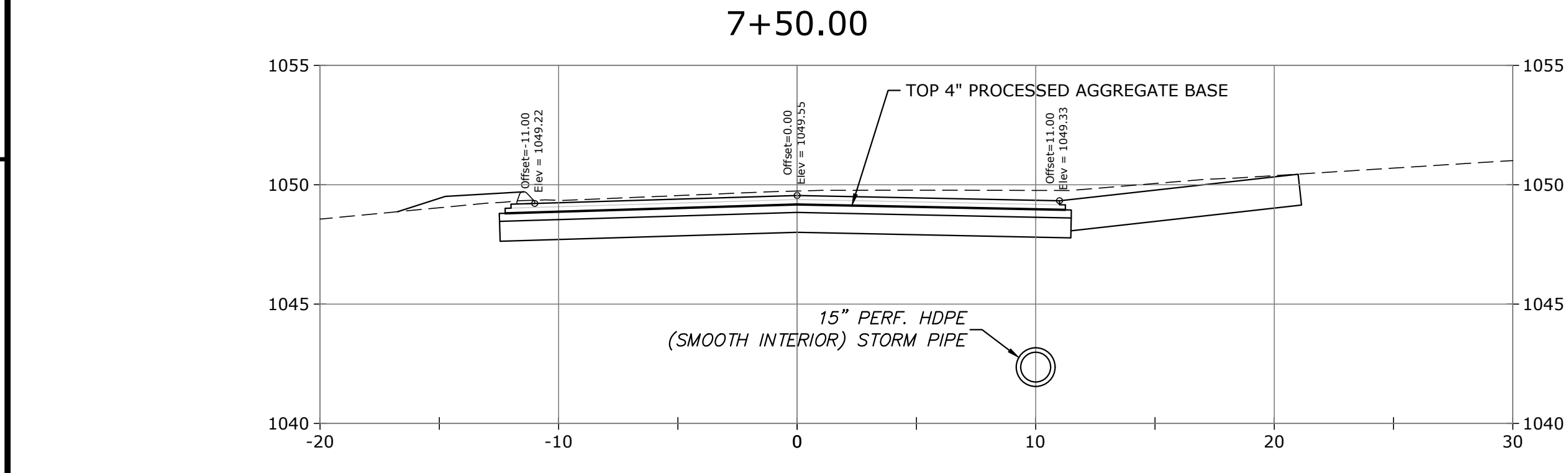
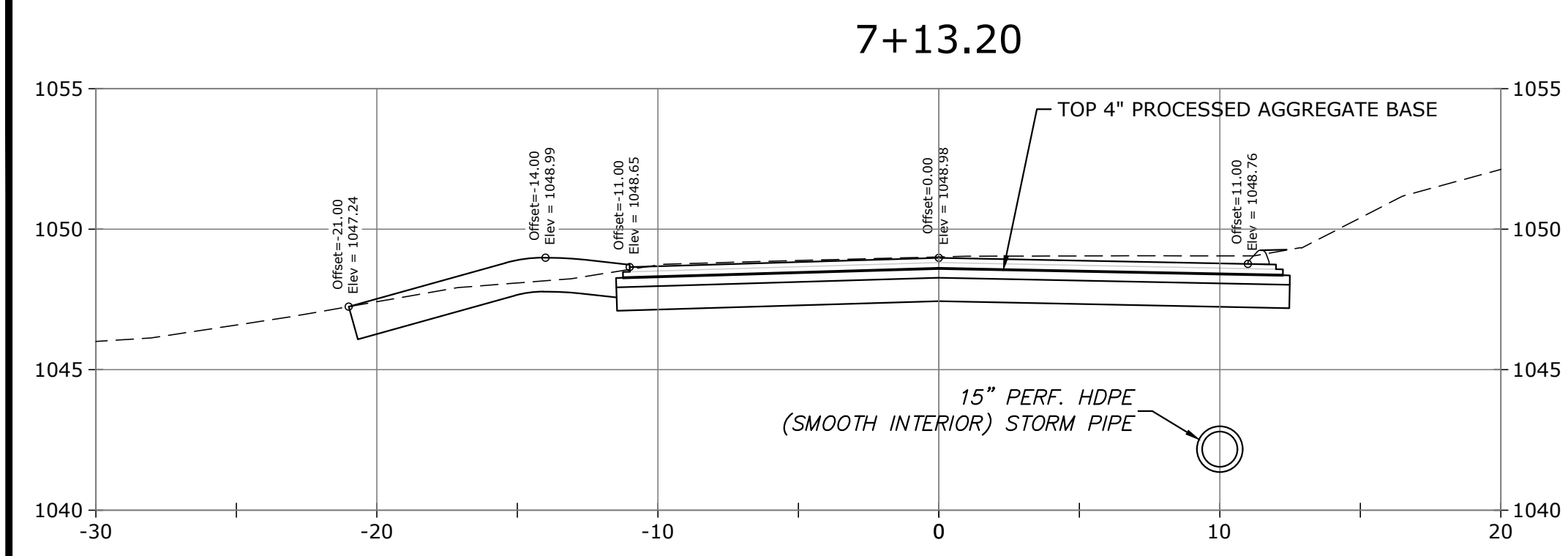
ROADWAY CROSS SECTIONS



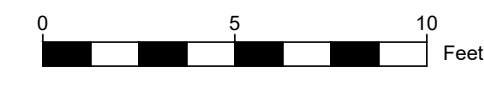
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REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
SEMI-FINAL DESIGN				
		HALEY WARD ENGINEERING ENVIRONMENTAL SURVEYING		
<small>WWW.HALEYWARD.COM</small> <small>140 Willow Street Winsted, Connecticut 06098 860.379.6669</small>				
PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS LITCHFIELD, CONNECTICUT 06759				
TITLE				
ROADWAY CROSS SECTIONS STA. 0+79 TO 7+00				
DATE		SCALE		
August 14, 2025		AS NOTED		
DRAWN BY	DESIGNED BY	CHECKED BY		
CG	CG	DNB		
PROJECT No.				
4010188.001				
DRAWING No.				
04				

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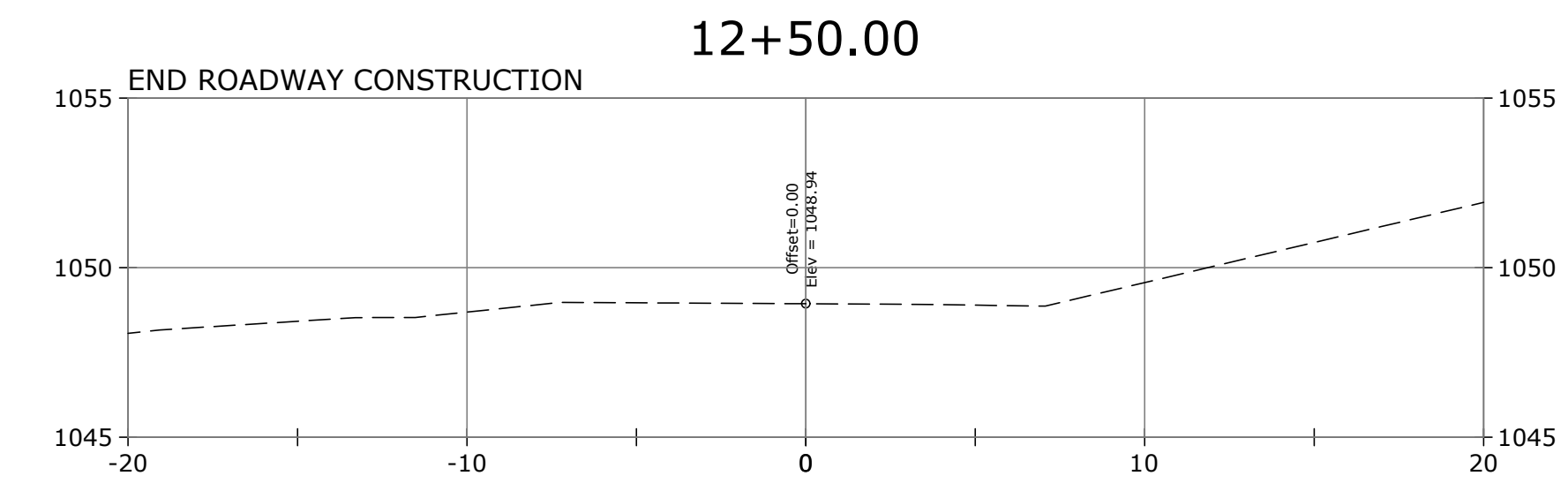
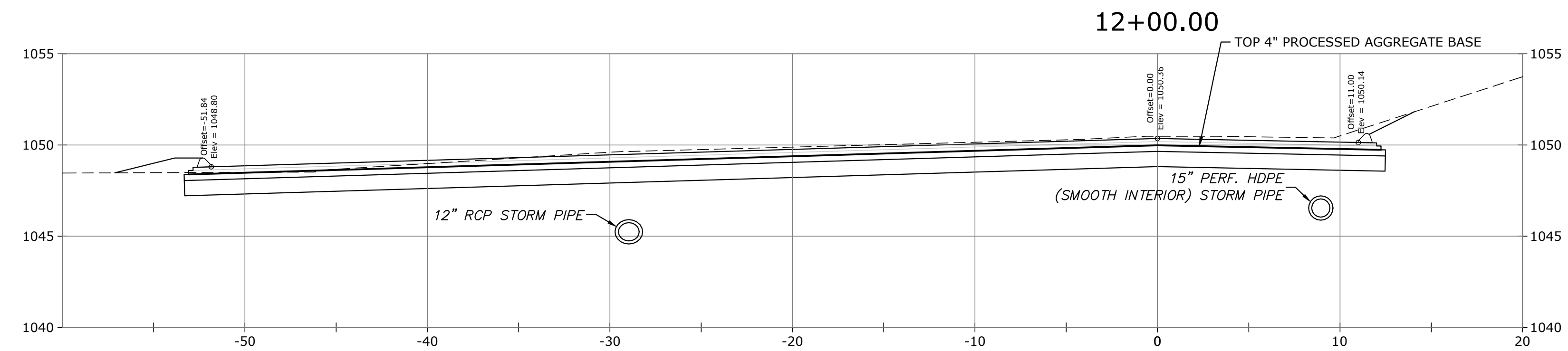
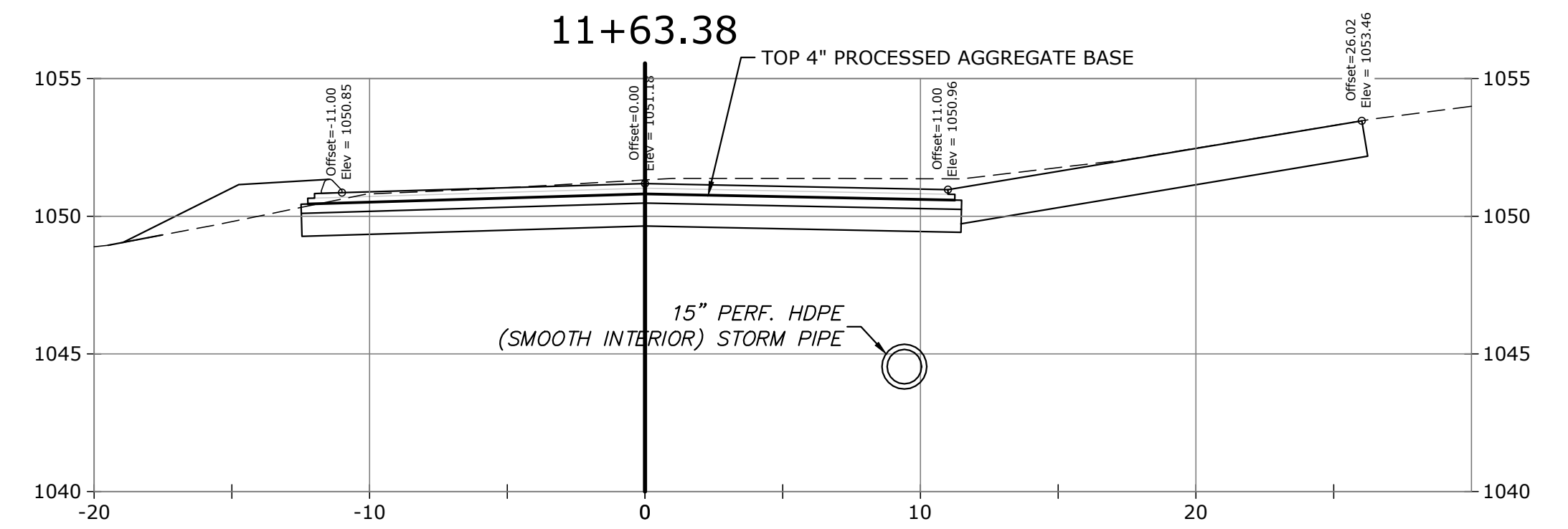
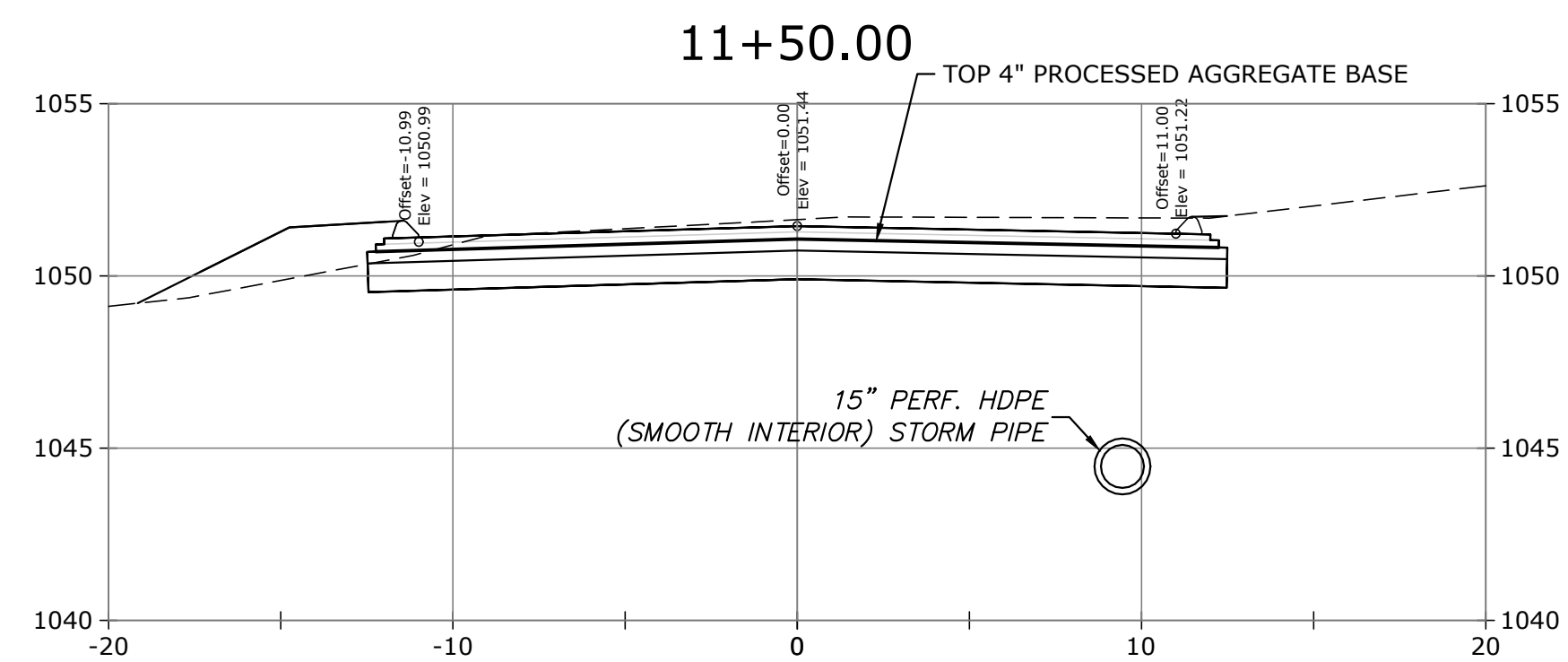
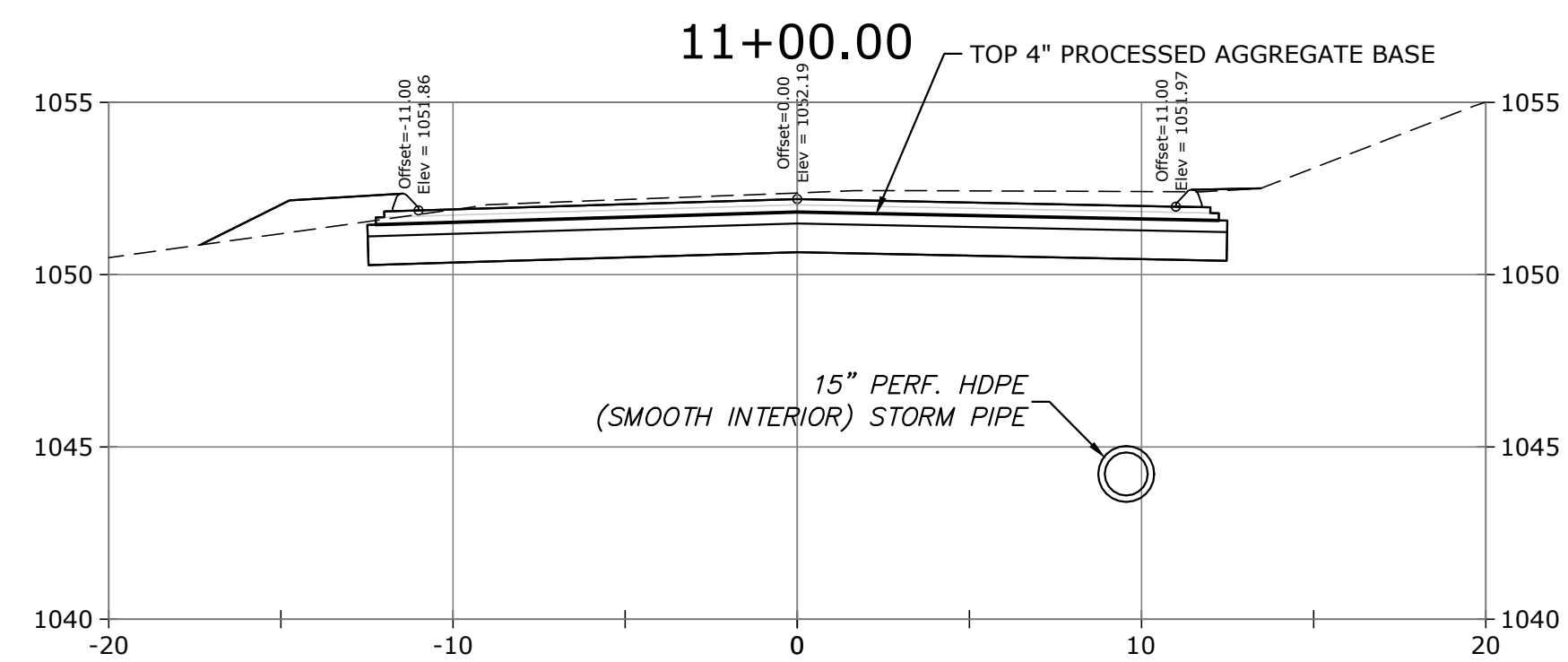
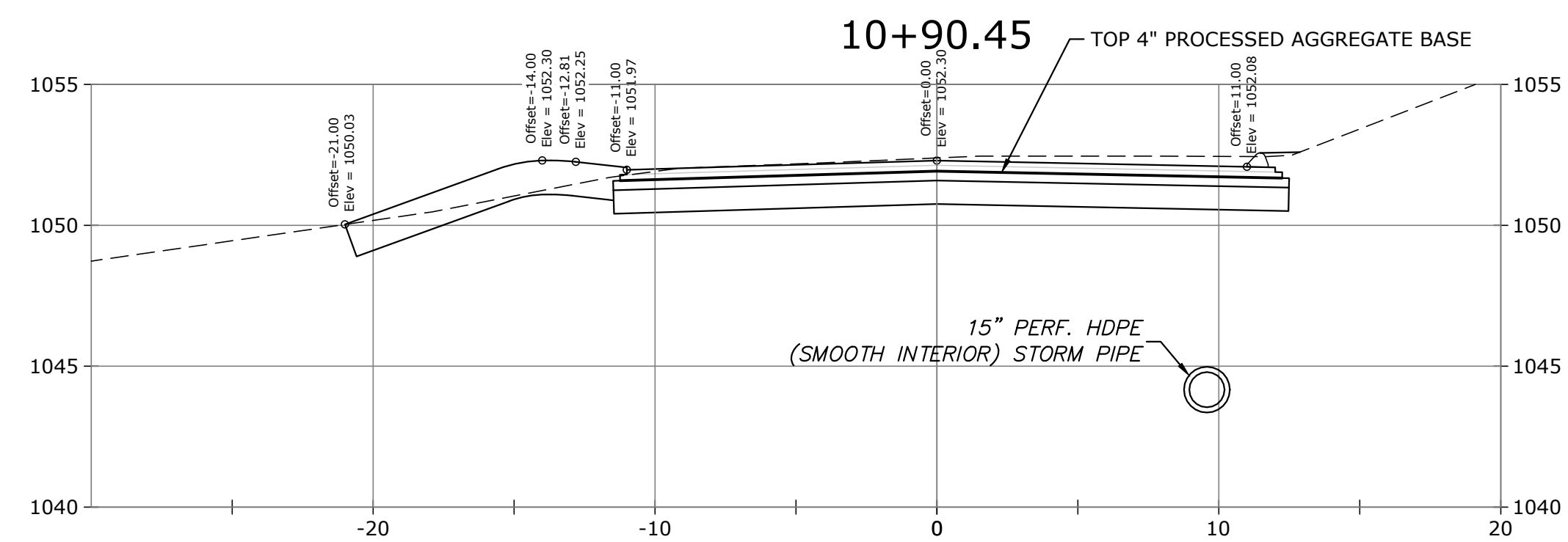
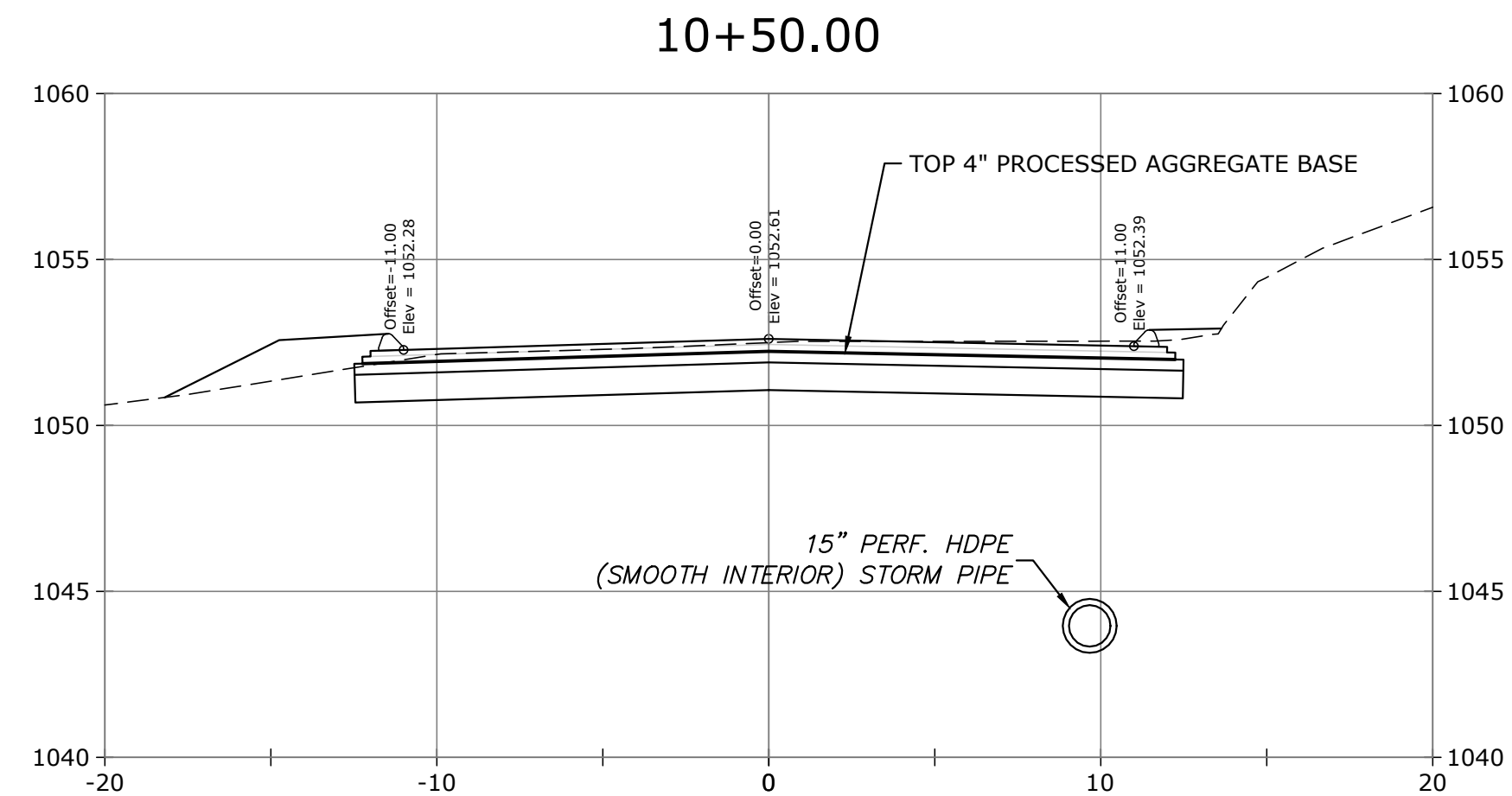
ROADWAY CROSS SECTIONS



1"=5'

SPOT ELEVATIONS REPORTED ON CROSS SECTIONS REPRESENT FINAL PAVEMENT GRADE. PLACEMENT OF HOT-MIX ASPHALT IS NOT INCLUDED IN THIS CONTRACT.

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
SEMI-FINAL DESIGN				
		HALEY WARD ENGINEERING ENVIRONMENTAL SURVEYING 140 Willow Street Winsted, Connecticut 06098 860.379.6669		
		WWW.HALEYWARD.COM		
PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS LITCHFIELD, CONNECTICUT 06759				
TITLE				
ROADWAY CROSS SECTIONS STA. 7+13 TO 10+31				
DATE		SCALE		
August 14, 2025		AS NOTED		
DRAWN BY	DESIGNED BY	CHECKED BY		
CG	CG	DNB		
PROJECT No.				
4010188.001				
DRAWING No.				REV.
05				




ROADWAY CROSS SECTIONS



1"=5'

SPOT ELEVATIONS REPORTED ON CROSS SECTIONS REPRESENT FINAL PAVEMENT GRADE. PLACEMENT OF HOT-MIX ASPHALT IS NOT INCLUDED IN THIS CONTRACT.

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
SEMI-FINAL DESIGN				
		HALEY WARD		
		ENGINEERING ENVIRONMENTAL SURVEYING		
		WWW.HALEYWARD.COM		
		140 Willow Street Winsted, Connecticut 06098 860.379.6669		
PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS				
LITCHFIELD, CONNECTICUT 06759				
TITLE				
ROADWAY CROSS SECTIONS				
STA. 10+50 TO 12+50				
DATE		SCALE		
August 14, 2025		AS NOTED		
DRAWN BY	DESIGNED BY	CHECKED BY		
CG	CG	DNB		
PROJECT No.				
4010188.001				
DRAWING No.				REV.
06				

SOIL EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

1. INTRODUCTION AND PERMIT COMPLIANCE

Pursuant to Connecticut P.A. 83-388 and the Litchfield Zoning Regulations, this project requires a Soil Erosion and Sediment Control Plan and Narrative. This narrative describes the minimum measures required to control soil erosion during and after construction of the sitework shown on this plan. The soil erosion and sediment control measures shown on this plan are designed in accordance with a document entitled "Connecticut Guidelines for Soil Erosion and Sediment Control" published by the Connecticut Council on Soil and Water Conservation in 2024. The Contractor may be required to implement additional measures to prevent site erosion and sedimentation of downstream waterways. The Contractor shall obtain copies of and comply with the conditions of all permits for this project. The Contractor's activities and operations include all site work and work incidental to the project as depicted on the Contract Drawings. If any of the Contractor's activities require approvals above and beyond those already accounted for by the Owner's permits, the Contractor shall apply for and obtain such permits prior to conducting those operations. If incidental work such as haul roads, waste and disposal areas, staging areas, and field offices are not shown on the plans, and require additional erosion control, the Contractor shall provide such controls.

2. PROJECT DESCRIPTION AND SITE CHARACTERISTICS

The Town of Litchfield proposes to reconstruct drainage and pavement on Byrnes Avenue. The project limits begin at Camp Dutton Road and extend continuously in a northerly direction for approximately 1,200 feet. The project's total footprint is approximately 1.5 acres. The proposed drainage improvements will be comprised of catch basins, and storm sewers. These design features will aid in the collection and discharge of stormwater. The existing roadway is void of an engineered storm water collection system. The runoff collected by the proposed stormwater system will be discharged to the existing catch basin within the curb radius at the northeast corner of the intersection of Byrnes Avenue with Camp Dutton Road. Bituminous concrete lip curbing will be installed along both edges of Byrnes Avenue. This curbing will help convey surface runoff from the roadway to the proposed storm sewer system. Full-depth reconstruction of Byrnes Avenue will begin on Byrnes Avenue approximately 62 feet north of the south edge of Camp Dutton Road and continue approximately 1,200 feet north. The cut-de-sac at the end of Byrnes Road will also be reconstructed. Minor changes have been made to the vertical alignment of Byrnes Avenue. All driveway aprons will be reconstructed and blended into the new roadway elevations.

3. CONSTRUCTION SEQUENCING

The Town of Litchfield proposes constructing drainage and pavement improvements on Byrnes Avenue over the course of a 75-90-day period during the 2025 or 2026 construction seasons. The Town anticipates the following construction sequence. Note: Contractor shall maintain alternating one-way traffic through the construction zone during all construction operations. Stage 1 - Drainage Improvements A. Place perimeter erosion controls where shown on the plan. B. Complete clearing and grubbing activities throughout the length of the project. C. Construct the storm water collection system's trunk line from the existing discharge catch basin to catch basin no. 8. The contractor shall plug the drain culvert at the end of each day and place silt sacks with deflectors in each catch basin during construction. The Contractor shall provide driveway access throughout construction. Do not end a day's pipe run within the limits of a residential driveway. D. Construct stormwater culvert crossings where shown on the plan. E. Catch basins contributing to the discharge at the north end of the project shall remain in-place until such time as they can be connected to the proposed stormwater system. F. Construct new storm sewers at the north end of the project upon completion of all culvert crossings, including the removal of all pipes and flared ends.

Stage 2 Pavement Construction

A. Excavate existing pavement and base layers (right lane) from beginning to end. Provide driveway access for residents throughout construction. Load these materials onto Town trucks. B. Excavate to subgrade (right lane) from beginning to end. Simultaneously form roadway embankment on the right side of roadway from beginning to end. Place subbase and processed aggregate base quickly after subgrade is established to provide a traveling surface for vehicles. The contractor shall provide a processed aggregate access pad at each driveway. C. Perform final grading of roadway embankment from beginning to end. D. Place topsoil, seed, and mulch. Place erosion-control matting on all areas subject to turf establishment. E. Excavate existing pavement and base layers (left lane) from beginning to end. Provide driveway access for residents throughout construction. Load these materials onto Town trucks. F. Excavate to subgrade (left lane) from beginning to end. Simultaneously, form roadway embankment on the left side of roadway from beginning to end. Place subbase and processed aggregate base quickly after subgrade is established to provide a traveling surface for vehicles. The contractor shall provide a processed aggregate access pad at each driveway. G. Perform final grading of roadway embankment from beginning to end in both lanes. Final surface shall be the plane between the top of the processed aggregate base and the bottom of the wearing surface's binder course, to the elevation(s), cross slope(s), and dimension(s) shown on the project plans. H. Place topsoil, seed, and mulch. Place erosion-control matting on all areas subject to turf establishment.

Stage 3 - Final Operations

A. Place topsoil, seed, and mulch in areas adjacent to driveway pavement and in any other un-stabilized areas throughout the site. Place erosion-control matting on all areas with turf-establishment that have slopes 3H:1V or steeper. B. Install object markers (if required). C. Reset road signs. D. Paint stop-bars and double-yellow centerlines.

4. RESPONSIBILITY

4.1 RESPONSIBILITIES OF OWNER/PERMITEE

The Owner/Permittee is The Town of Litchfield, 101 Russell Street, Litchfield, CT 06759, Phone 860-567-7575. The Owner/Permittee shall: A. Provide the Contractor with copies of land-use permits that Owner has acquired. B. Inform all parties involved with the proposed site work of this plan's objectives and requirements.

4.2 RESPONSIBILITIES OF CONTRACTOR

The Contractor has not been selected at the time of permit application. The Contractor is responsible for preventing erosion of the site. The Contractor shall: A. Install, monitor, and maintain the soil erosion and sediment control measures as shown on this plan. B. Comply with all permit requirements. C. Provide the Owner, Engineer, and the municipality with 24 hour phone numbers in the event of an emergency at the site. D. Comply with "Connecticut Guidelines for Soil Erosion and Sediment Control" published by the Connecticut Council on Soil and Water Conservation in 2024

5. PRECONSTRUCTION CONFERENCE

The Owner will conduct a preconstruction meeting with the Contractor, Engineer, and the Wetlands Enforcement Agent to review the proposed soil erosion and sediment control measures, construction sequence, and other factors required to prevent project-related sediment from reaching nearby wetlands or waterways.

6. DESCRIPTION AND MAINTENANCE OF EROSION CONTROL MEASURES

6.1 TEMPORARY STABILIZATION MEASURES

Temporary Grass Cover: Depending on conditions at time of surface restoration, Contractor may elect to plant temporary grass cover and defer final seeding to the spring of 2024. Contractor shall loosen the soil to a depth of two inches before seeding. If existing soil is not capable of growing grass, the Contractor shall spread at least two inches of topsoil over the loosened surface. If seeding commences during late autumn, the winter rye grass seed shall be used. Seeding rates shall be 5 lbs./1000 sq. ft. Hay mulch shall be spread at the rate of 100 lbs./1000 sq. ft. and the Contractor shall protect mulch and seed with stapled jute mesh or erosion control matting as stipulated below. The contractor shall irrigate the grass until an acceptable stand of grass is established.

Filter Sock: Install an erosion control filter sock of the size shown in the Contract Drawings. Remove surface rocks or other obstacles that prevent close contact with the ground surface and firmly stake it as shown in the details. Remove sediment once levels have reached 1/4 the effective barrier height. Repair and/or replace the barrier immediately if damaged or deteriorated. Stake filter sock at intervals recommended by manufacturers, but not less than four feet. For filter sock less than 12 inches, install in a shallow excavation. Where filter sock is not continuous, overlap sections by three feet minimum.

Silt Sacks: Install a silt sack in the catch basin where shown on the plans. Install in accordance with manufacturer's instructions. Remove and empty according to manufacturer's instructions.

Stockpiling or Storage of Excavated Materials: Completely surround all temporary (2-4 weeks) material stockpiles with strawbales or silt fence to prevent transportation of sediment. Seed stockpiles that will remain for a longer duration with a quick-growing rye grass.

Erosion Control Matting: Install erosion control matting in all areas disturbed by construction activities. The contractor shall select a fabric from the Connecticut Department of Transportation's Qualified Product List. The fabric shall meet the requirements of Class 1 Type D Slope Protection for all areas. The Contractor shall maintain the fabric until a durable stand of grass is established.

Tree Protection: The Owner will select trees or groups of trees to remain prior to construction. The Contractor shall provide snow fencing, board fencing, or cord fencing around trees or groups of trees to protect them against damage. The Contractor shall be responsible for selecting and installing the protection measures most appropriate for the conditions present. The Contractor shall repair and/or replace tree protection measures immediately if damaged during construction.

6.2 PERMANENT STABILIZATION MEASURES

Site Restoration: The contractor shall be responsible for restoration of all unpaved areas following completion of the project. Restoration shall include the furnishing, placement, and shaping of topsoil and the establishment of a firm stand of turf. At a minimum, Contractor shall restore unpaved areas to the limits indicated on the Contract Drawings; however, the limits shall be extended to include any portion of unpaved areas damaged inadvertently or for Contractor's convenience. The contractor shall furnish, place, and shape topsoil, to a minimum depth of four inches, in all areas disturbed by construction. Final grade of topsoil shall match existing grade at adjacent areas and shall be shaped to a smooth contour. Topsoil material shall conform to requirements of ConnDOT Form 818, Article M.13.01 - Item 1 (Topsoil). Following placement of topsoil, contractor shall provide an accepted, uniform stand of established perennial turf grasses by furnishing and placing fertilizer, seed, and mulch on all areas to be treated as shown on the plans or where designated by Engineer.

- Seed shall meet the requirements of ConnDOT Form 818, Article M.13.04.
- Fertilizer shall meet the requirements of ConnDOT Form 818, Article M.13.03.
- Mulch shall be wood fiber, hay, or straw and shall meet the requirements of ConnDOT Form 818, Article M.13.05.
- Erosion control matting shall conform to the requirements specified above.

Construction Methods for turf establishment shall conform to the following requirements:
I. **Surface Preparation:**
A. Level areas and lawns shall be made friable and receptive for seeding by disking or by other approved methods to the satisfaction of Engineer. All disturbed soil areas brought to final grade shall be seeded within 7 days, or as directed by Engineer, in accordance with these specifications. In all cases, the final prepared and seeded soil surface shall meet the lines and grades for such surface as shown in the plans, or as directed by Engineer.
B. Slopes and Embankment Areas: These areas shall be made friable and receptive to seeding by disking or by other approved methods which will not disrupt the line and grade of the slope surface. In no event will seeding be permitted on hard or crusted soil surface.
C. Seeding shall not be permitted until all weed growth is removed.

II. **Seeding Season:** The optimal calendar dates for seeding are: Spring (March 15 to June 30) and Fall (August 15 to October 31). All disturbed soil areas at final grade shall be seeded within 7 days or as directed by the Engineer, in accordance with these specifications. Any seeding outside the optimal dates shall be performed in the same manner. Since acceptable turf establishment is less likely, Contractor shall be responsible for reseeding until the turf stand conforms to the requirements of ConnDOT Form 818 Article 9.50.03-5.
III. **Sowing Methods:** The Contractor shall sow the grass seed mixture using traditional methods or hydro-seeding.
A. Sowing by Traditional Methods: The rate of seed application shall be no less than 175 lbs./acre. Fertilizer shall be initially applied at a rate of 320 lbs./acre during or preceding seeding. When wood fiber mulch is used, it shall be applied in water slurry at a rate of 2,000 lbs./acre with, or immediately after the application of seed, fertilizer, and limestone (if limestone is required). Tackifier may be used with straw mulch as proposed by Contractor. When the grass seeding growth has attained a height of 6 inches, the specified grass areas (mowed and un-mowed) shall receive a uniform application of fertilizer hydraulically placed at the rate of 320 lbs./acre
B. Sowing by Hydro-seeding: If hydro-seeding is proposed, Contractor shall furnish a hydro-seeding Plan for Engineer's acceptance two weeks prior to the start of this work. The hydro-seeding plan shall include the following:

- Proposed manufacturer and copy of the manufacturer's recommended application rates for various grades and hose angles of application, the site's soil type(s) and expected weather conditions.
- Number of square feet of seeding that can be covered with the quantity of solution per hydro-seeder.
- Time between mixing of slurry and seed in hydro seeding tank and application.
- Type of hydro seed machine, including nozzle type and automation information if applicable. If the Hydro-seeding Plan is accepted for use, deviation from ConnDOT Form 818, Article 9.50.03-1 (Surface Preparation) will not be allowed. Hydro-seeding shall not be used if the extended weather patterns are hot and dry and the soil surface is dry and dusty, unless Contractor's submission addresses application of straw or hay mulch and addresses follow up maintenance (i.e. additional watering) for "drought conditions." The hydro seed tank and hoses(s) shall be completely flushed and cleaned each day before seeding is to be started and shall also be thoroughly flushed of residue after application to every 10 acres.
- Disturbance:** Contractor shall keep all equipment and vehicular and pedestrian traffic off areas that have been seeded to prevent excessive compaction and damage to young plants. Where any disturbance has occurred, Contractor shall rework the soil to make a suitable seedbed, then re-seed and mulch such areas with the full amounts of the specified materials, at no additional cost to the State.
- Stand of Perennial Turf Grasses:** Contractor shall provide and maintain a uniform stand of established turf grass species having attained a height of 6 inches consisting of no less than 60% coverage per square foot throughout the seeded areas until the entire Project has been accepted. Reseeding, as required to achieve and maintain a uniform stand of established turf grass species, shall be at no additional cost to Owner.
- Establishment:** Contractor shall keep all seeded areas free from weeds and debris, such as stones, cables, baling wire, and shall mow at its own expense, on a 1_time_only basis, all slopes 4:1 or less (flatter) and level turf established (seeded) areas to a height of 3 inches when the grass growth attains a height of 6 inches. Clean-up shall include, but not be limited to, the removal of all debris from the turf establishment operations on the shoulders, pavement or elsewhere on adjacent properties publicly and privately owned. Mowing shall be done at least once.
- Erosion Control Matting:** Erosion control matting shall be installed following seeding where called for on the plans or as directed by Engineer. Staples shall be installed as per the manufacturer's recommendations. Where two lengths of matting are joined, the end of the up-grade strip shall overlap the down-grade strip per the manufacturer's recommendations. The Contractor shall maintain and protect the areas with erosion control matting until such time as the turf grass is established. Contractor shall replace or repair all erosion control matting areas damaged by fire, water or other causes including the operation of construction equipment, at no cost to Owner. No mowing will be required in the locations where erosion control matting is installed.

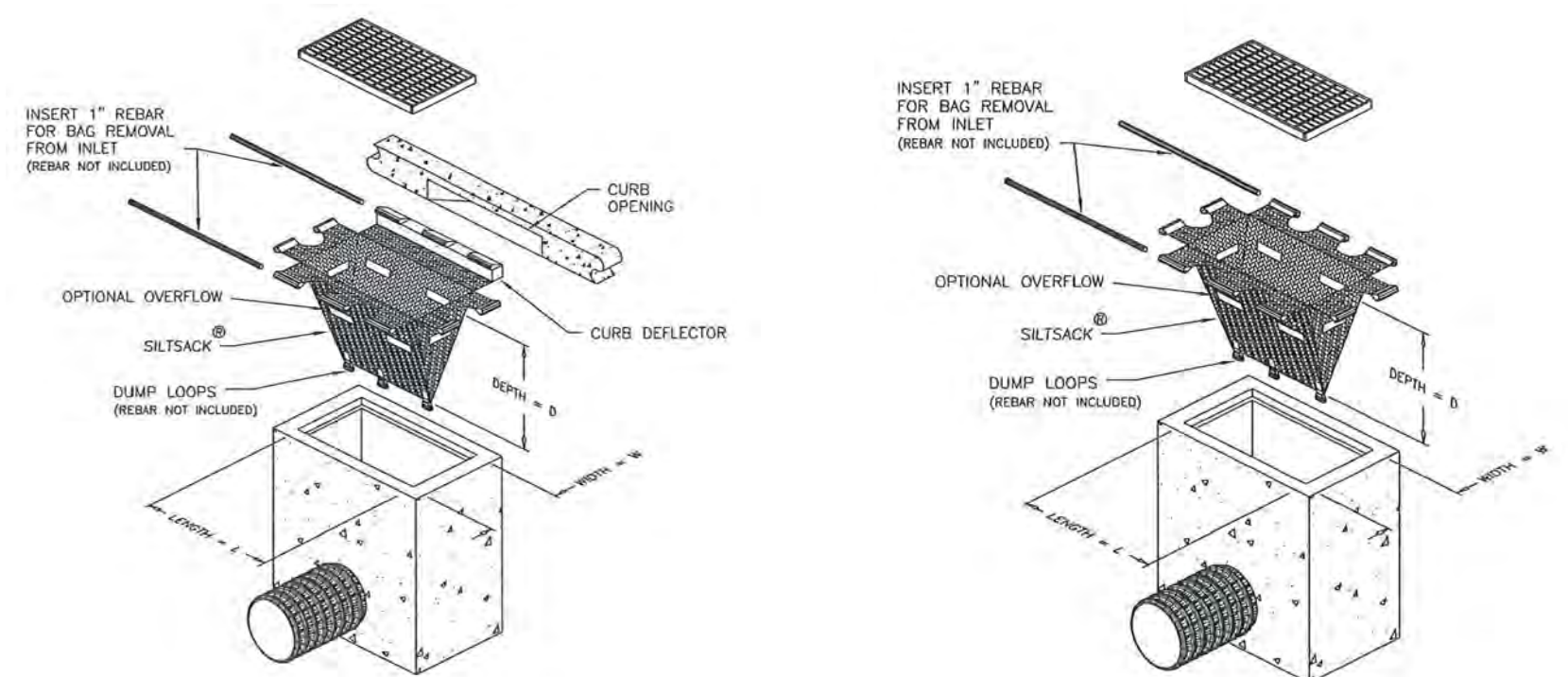
6.3 PERMANENT STRUCTURAL MEASURES (POST CONSTRUCTION STORMWATER MANAGEMENT)

Land Grading: Proposed grades are shown in detail on the plan. In general, the Contractor shall properly stockpile earth, move it to fill areas, or export it from the site. Place and compact fill in shallow lifts, proceeding uphill from the toe area. Create large but shallow runoff collection areas at the end of each working day to help collect and prevent runoff from running down the fill face. Bring all excavated, filled, or disturbed areas to final grade as soon as possible and stabilize areas with loam, seed and mulch immediately. Keep erosion control measures in place until the site is stabilized with pavement and/or vegetation.

6.4 OTHER CONTROLS

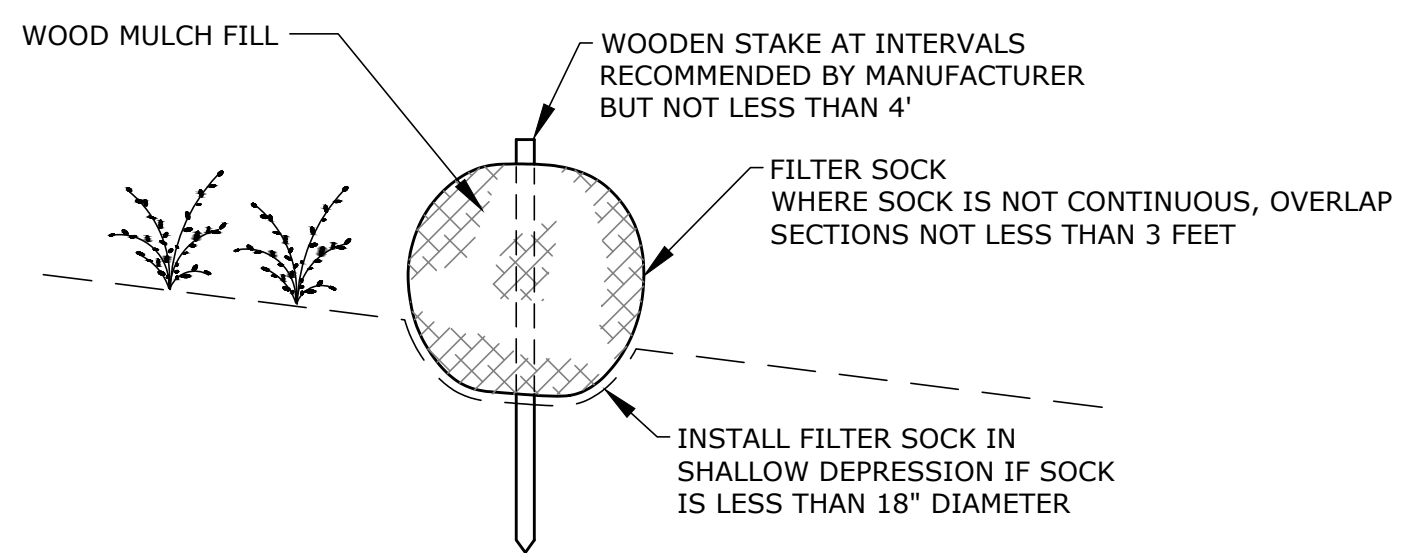
Waste Disposal: Provide an adequate number of covered waste containers to ensure that no litter, debris, building materials, or similar materials are discharged to wetlands or watercourses. Instruct subcontractors to use the containers for waste material. Empty the containers promptly when full.
Pavement Maintenance: The Contractor shall sweep paved roadways adjacent to the site on a routine basis to prevent tracking of mud onto public roadways and washing of mud into waterways. If the Contractor's schedule for cleaning the pavement is found to be inadequate by the Owner, Owner's Representative, or the municipality, the Contractor shall increase the frequency of no additional cost to the Owner.

Cleaning of Stormwater Structures: Clean all stormwater structures, including, but not limited to pipes, swales, detention basins, sediment traps, and riprap aprons of sediment upon completion of the project.
7. GENERAL CONDITIONS
7.1 If erosion control measures are damaged by construction vehicles, acts of vandalism, or severe weather conditions, the Contractor shall immediately remove sediment in the vicinity of the erosion control measures and repair these measures to a functional condition.
7.2 If, during or after construction, it becomes apparent that existing erosion control measures are incapable of controlling erosion, the Owner or Engineer may require additional control measures including, but not limited to; additional haybales, silt fence, sediment basins, or mechanically anchored mulch.
7.3 Refueling of equipment or machinery within 75 feet of any wetland or watercourse is prohibited.
7.4 No construction shall proceed until a written proposal of methods to prevent construction debris, paint, spent blast materials, or other materials from entering the wetland or watercourse has been submitted by the Contractor to the Owner and approved by the Owner, and such methods have been implemented as the Owner directs. These materials shall be collected and disposed of in an environmentally safe manner in accordance with all applicable Federal and State laws and regulations. The Owner may order the Contractor to cease such activity temporarily if, in the judgement of the Owner, wind or storm conditions threaten to cause the deposit of such materials into a waterway.
7.5 No materials resulting from construction activities shall be placed in or allowed to contribute to the degradation of an adjacent wetland or watercourse. Disposal of any material shall be in accordance with Connecticut General Statutes, including, but not limited to, Sections 22a-207 through 22a-209.
7.6 Forging of streams with equipment is prohibited, except as allowed by the Owner and the Owner's permits. Minimize such equipment travel. Where frequent, place washed stone to minimize erosion, scour, and turbidity, provided no significant grade change will be required for any haul road or temporary structure placed in wetlands or watercourses. Unless the above activities are specifically authorized by the Owner's permits, the Contractor shall acquire permits for such activities before commencement of the work.
7.7 Conduct work within or adjacent to watercourses during periods of low flow, whenever possible. The Owner shall remain aware of flow conditions during the conduct of such work and shall cause such activity to cease should flow conditions threaten to cause excessive erosion, siltation or turbidity. The Contractor shall make every effort to secure the work site before prediction of a major storm event. A major storm shall be defined as a storm predicted by NOAA Weather Service with warnings of flooding, severe thunderstorms, or similarly severe weather conditions or effects.
7.8 Stabilize all temporary fill to prevent erosion and to prevent sediment or other particulate matter from reentering a wetland or watercourse. Restore and revegetate all areas affected by temporary fills to their original contours or as directed by the Owner. Confine the temporary fill or excavation to that area necessary to perform the work, as approved by the Owner.
7.9 Dumping of oil, chemicals or other deleterious materials on the ground is forbidden. The Contractor shall provide a means of catching, retaining, and properly disposing of drained oil, removed oil filters, or other deleterious material. All spills of such materials shall be reported immediately by the Contractor to the DEEP.
7.10 No application of herbicides or pesticides within 75 feet of any wetland or watercourse will be allowed. All such applications must be done by a Connecticut licensed applicator. The Contractor shall submit to the Owner the proposed applicator's name and license number, and must receive the Owner's approval of the proposed applicator, before such application is carried out.



SILTSACK WITH CURB DEFLECTOR
NOT TO SCALE

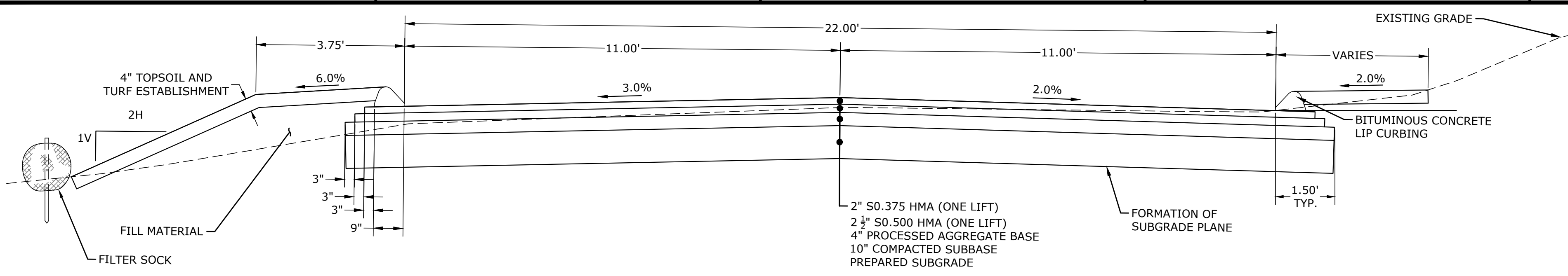
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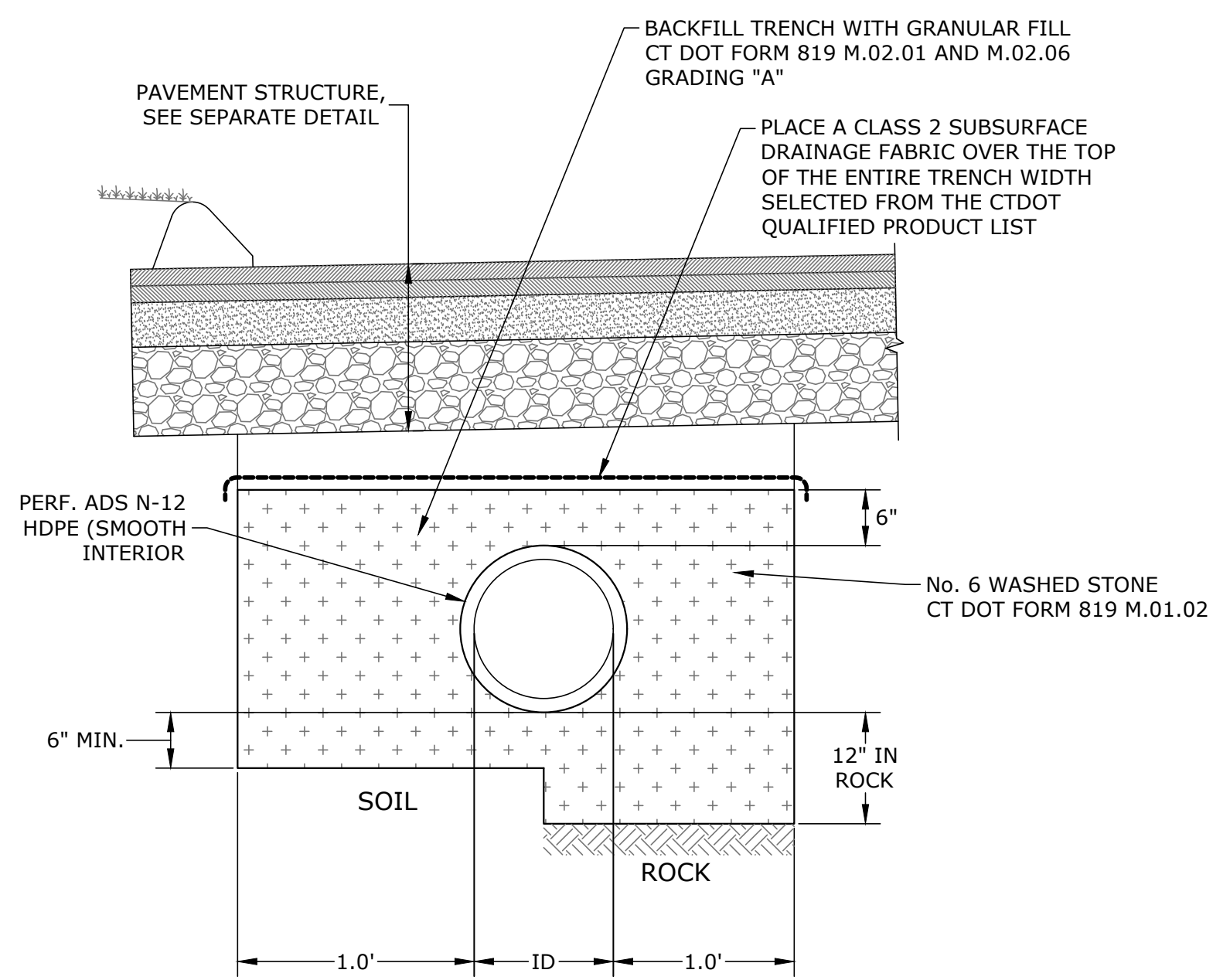
COMPOSITE FILTER SOCK
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SEMI-FINAL DESIGN				
 HALEY WARD ENGINEERING ENVIRONMENTAL SURVEYING WWW.HALEYWARD.COM 140 Willow Street Winsted, Connecticut 06098 860.379.6669				
PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS LITCHFIELD, CONNECTICUT 06759				
TITLE				
SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS				
DATE		August 14, 2025	SCALE	
			AS NOTED	
DRAWN BY	DESIGNED BY	CHECKED BY		
CG	CG	DNB		
PROJECT No.				
4010188.001				
DRAWING No.				
07				
REV.				

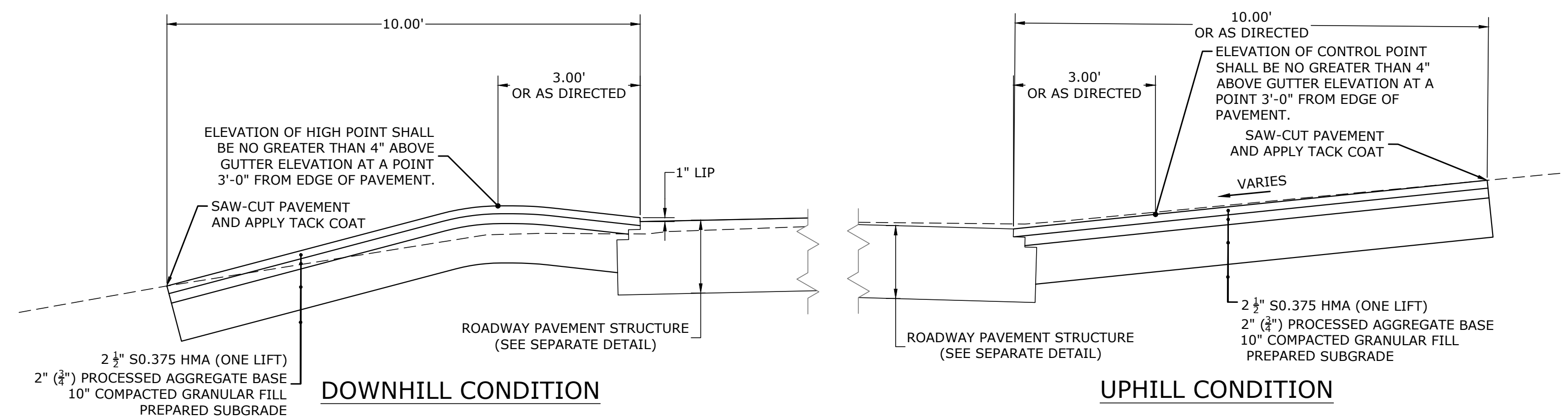
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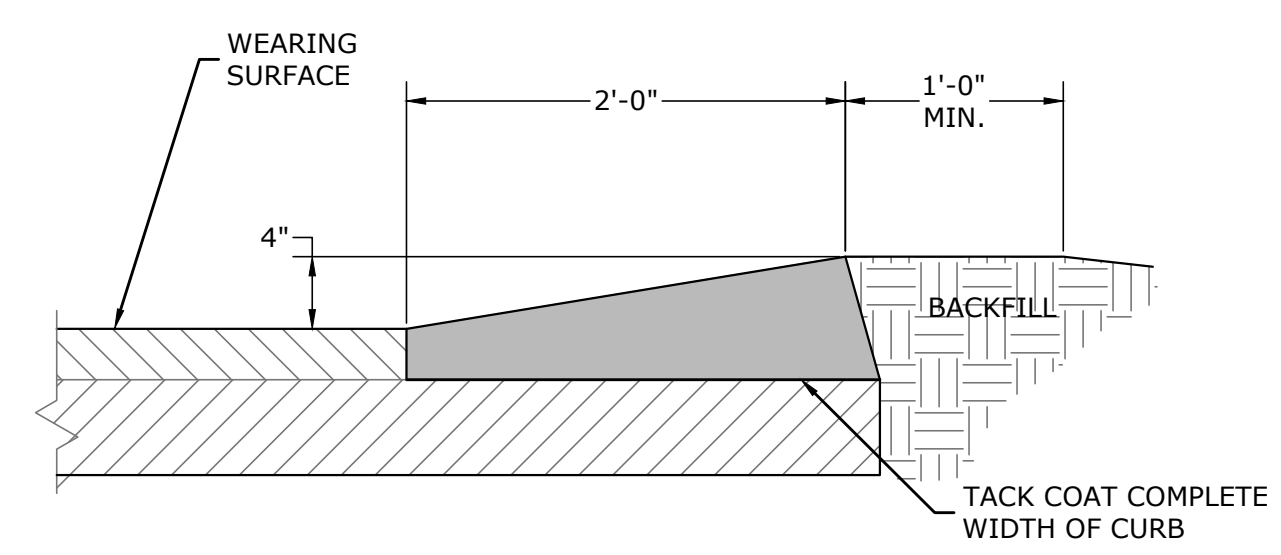
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 GRAPHIC SCALE: 1" = 2'



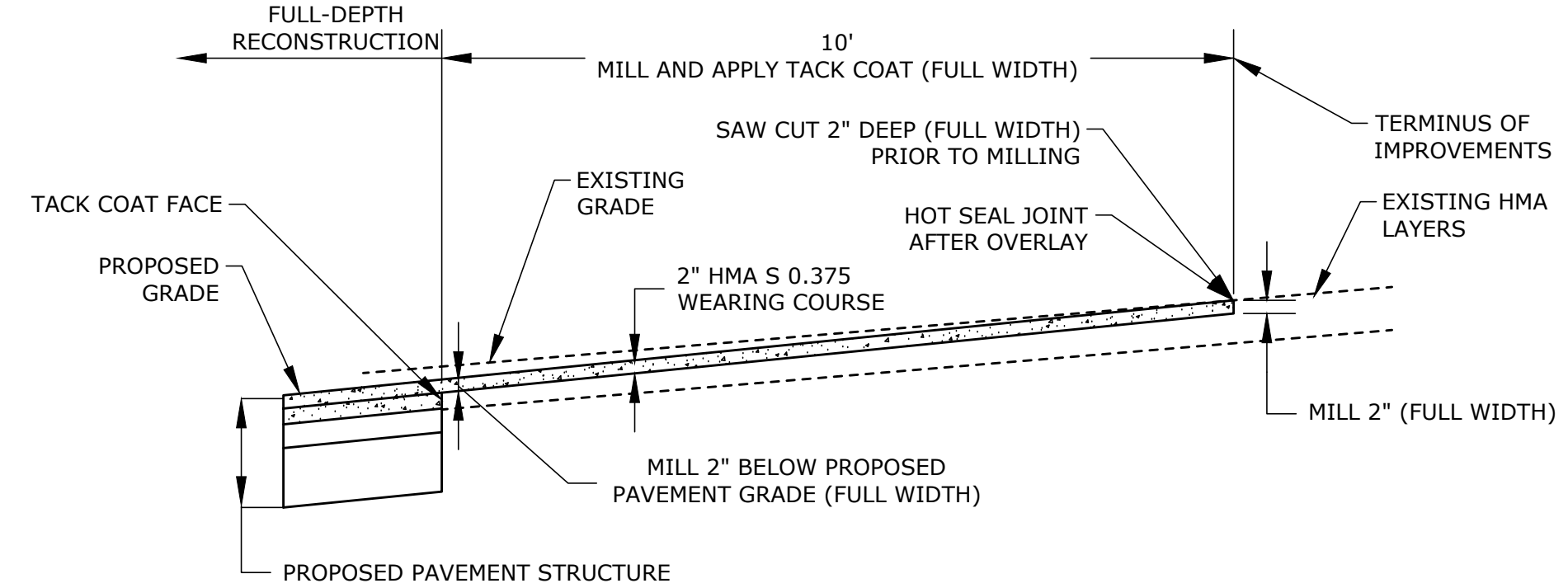
(G) 09 HDPE PIPE TRENCH
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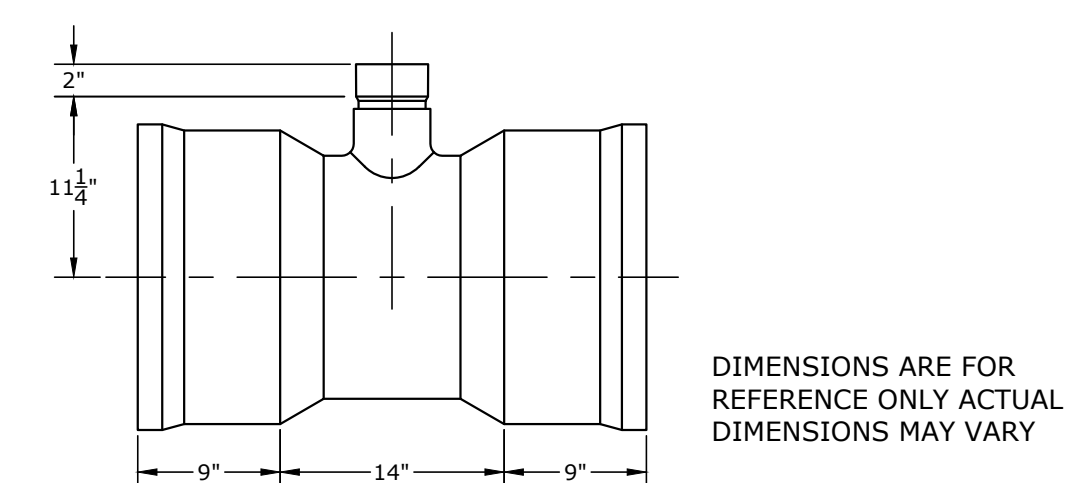
(B) 09 DRIVEWAY APRON
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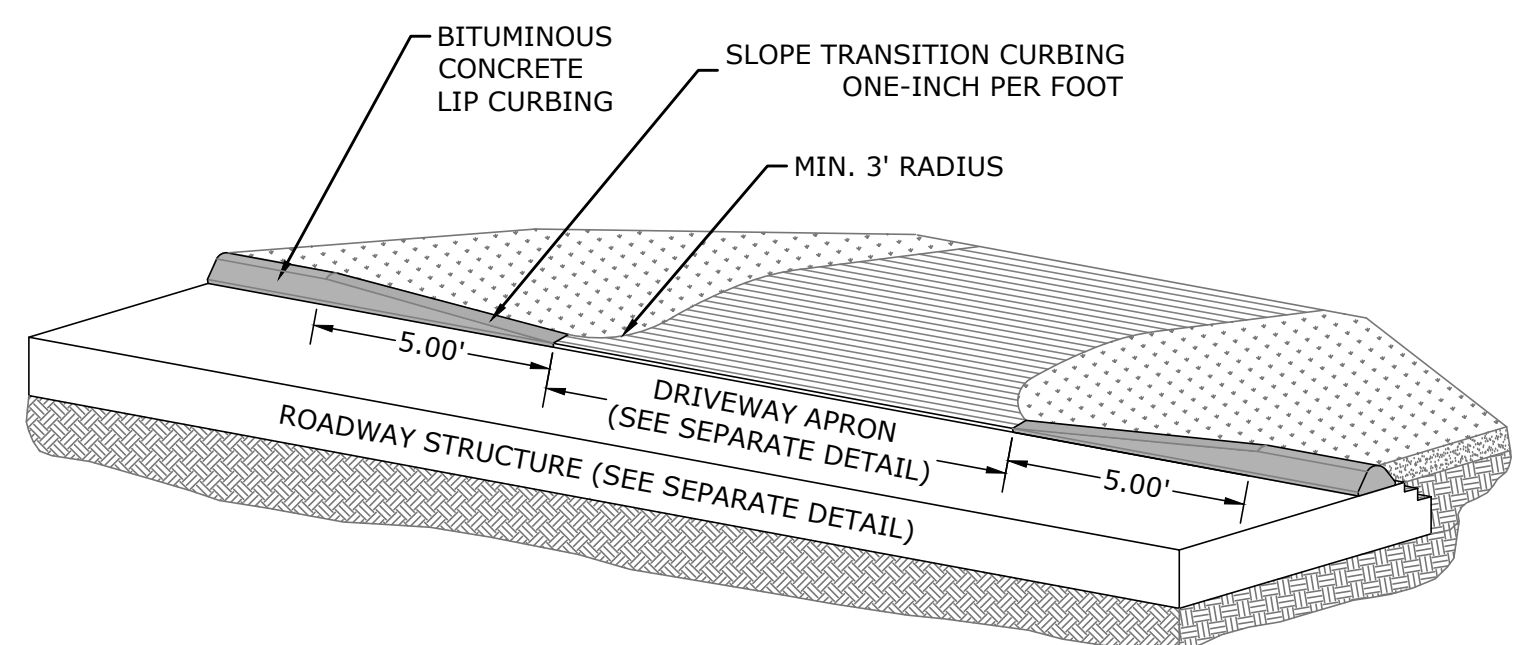
(C) 09 BITUMINOUS CONCRETE BERM CURBING
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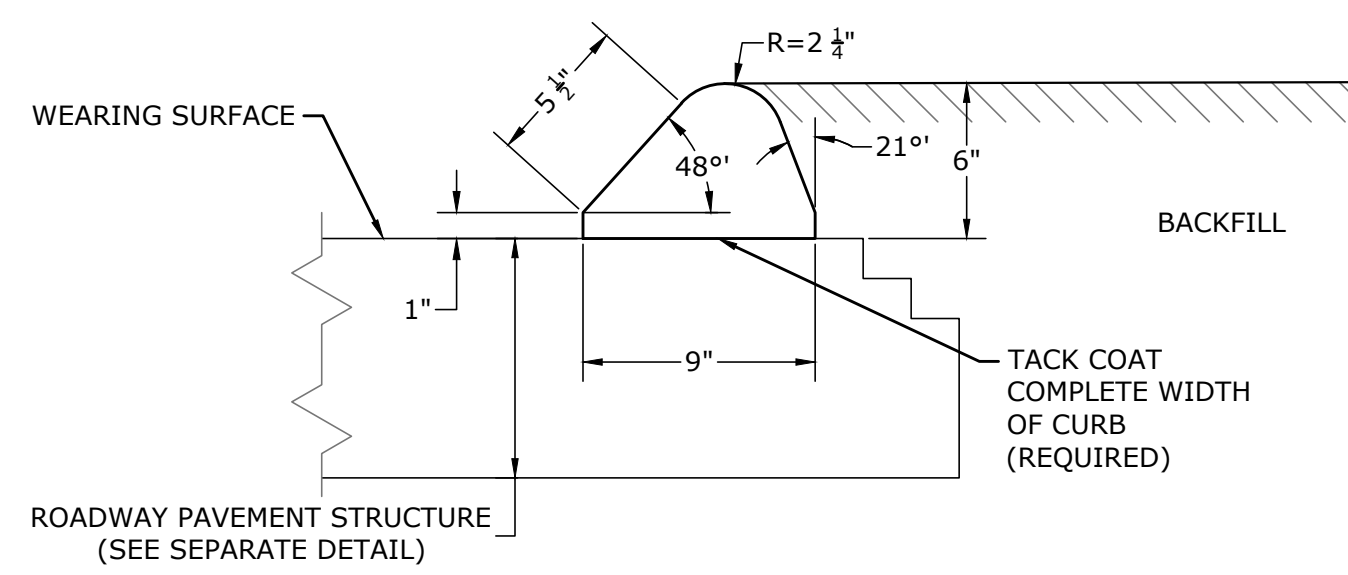
(E) 09 PAVEMENT TRANSITION
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(H) 09 15"x4" ADS N-12 / HANCOR DUAL WALL TEE WITH SCH 40 BELL
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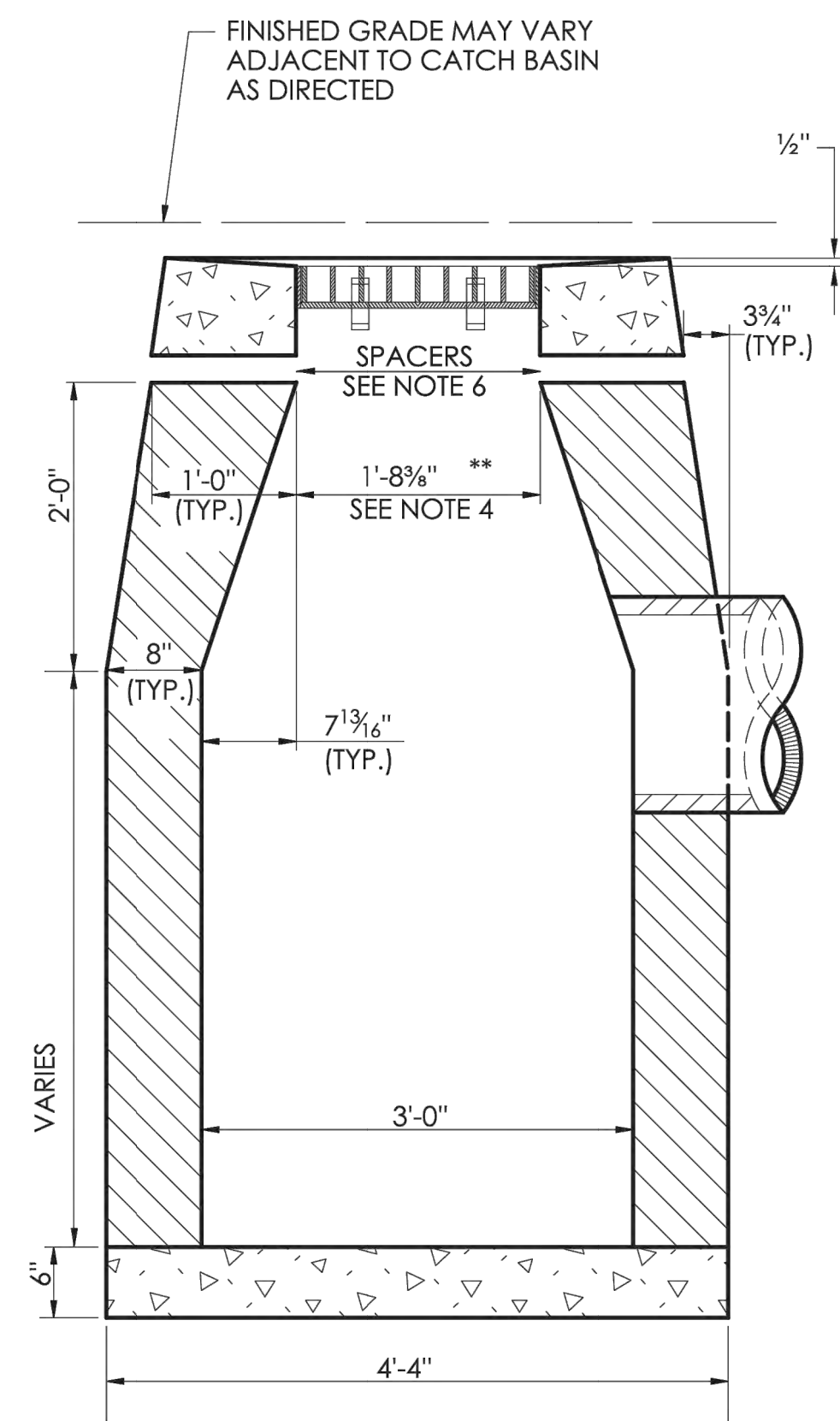
(D) 09 BITUMINOUS CONCRETE LIP CURBING CURBING TRANSITION
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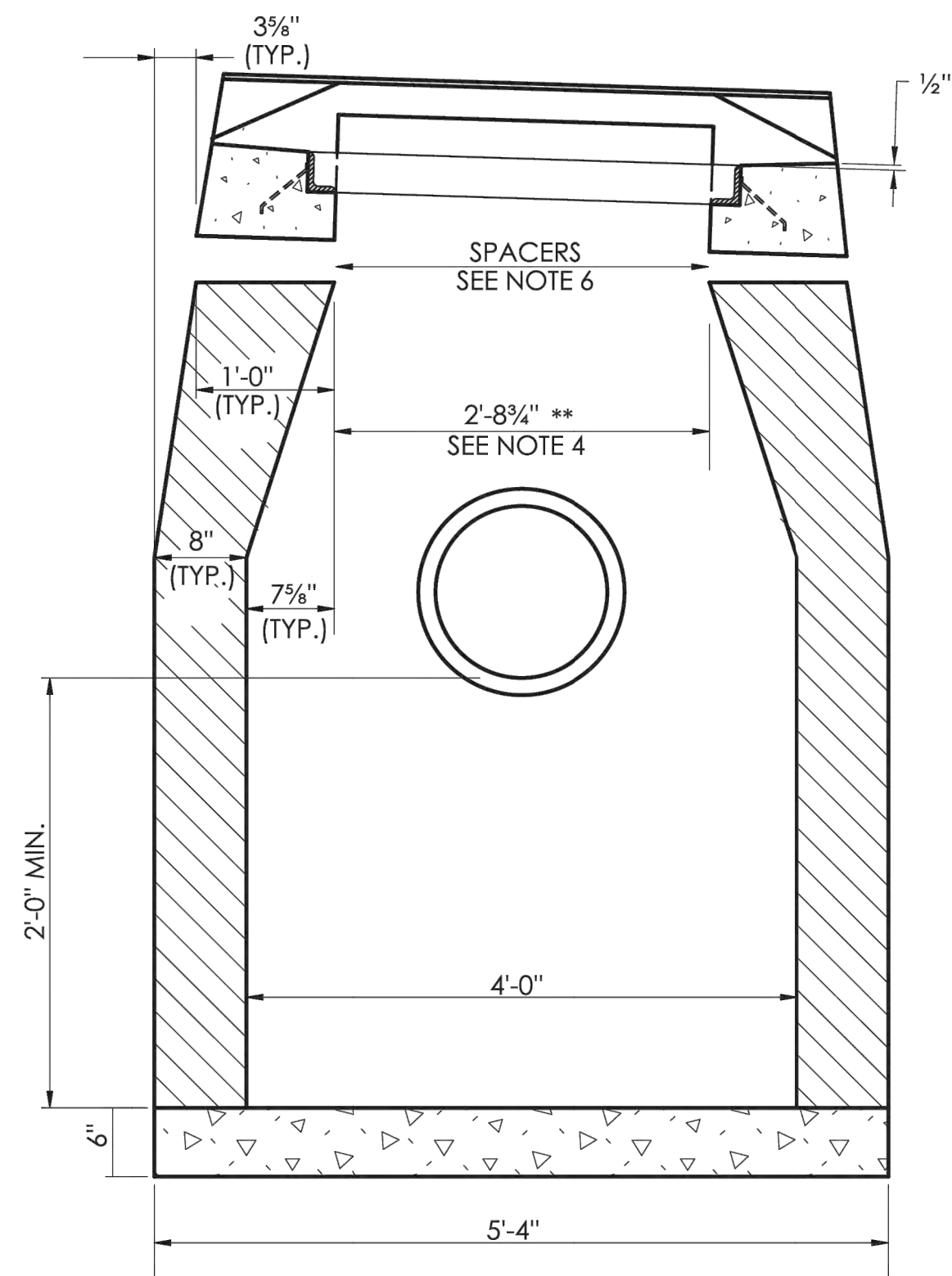
(F) 09 BITUMINOUS CONCRETE LIP CURBING
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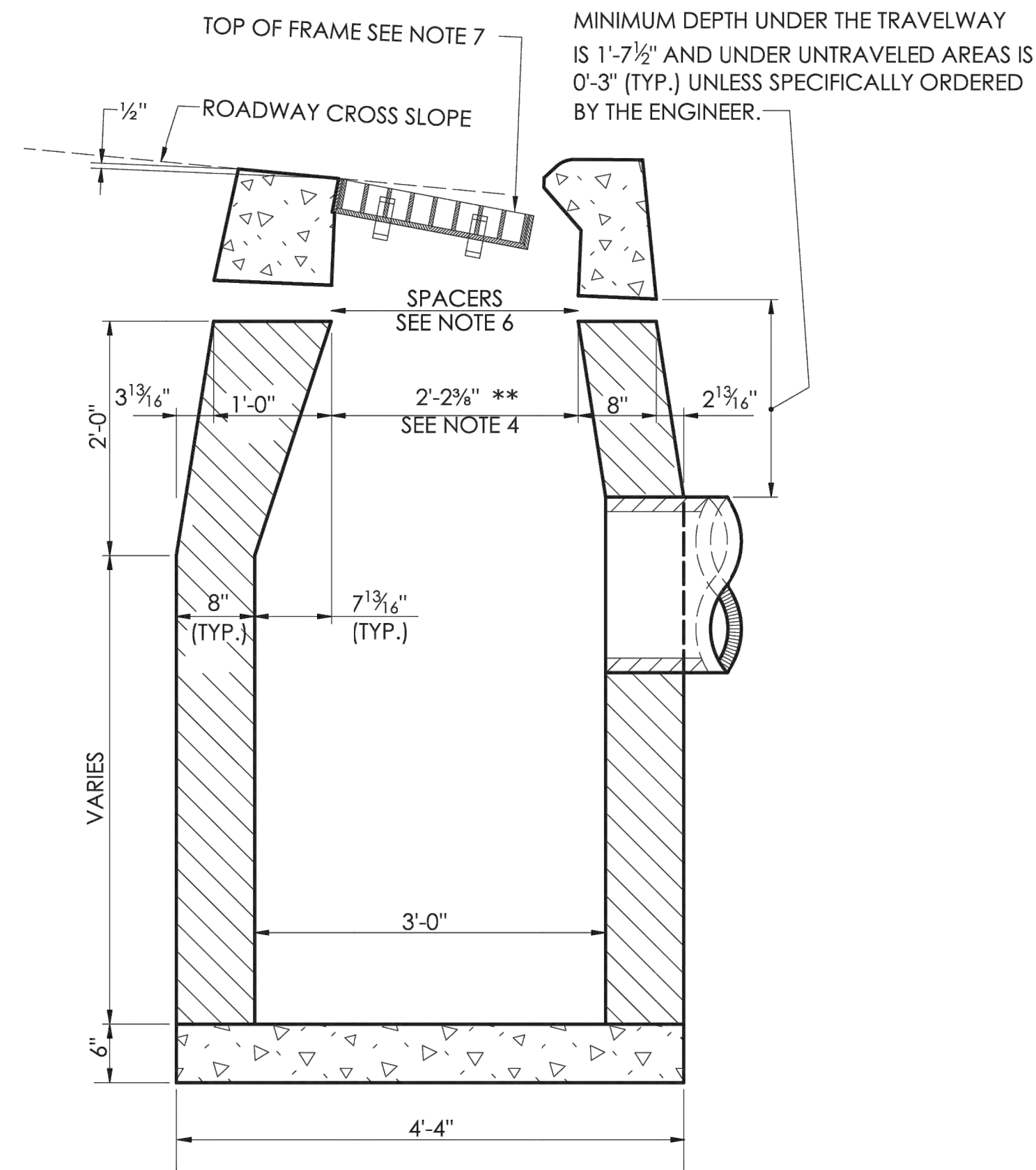
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www.haleyward.com				
140 Willow Street Winsted, Connecticut 06098 860.379.6669				
PROJECT				
BYRNES AVENUE ROADWAY & DRAINAGE IMPROVEMENTS				
LITCHFIELD, CONNECTICUT 06759				
TITLE				
DETAILS				
DATE		SCALE		
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DRAWN BY	DESIGNED BY	CHECKED BY		
CG	CG	DNB		
PROJECT No. 4010188.001				
DRAWING No. 08				



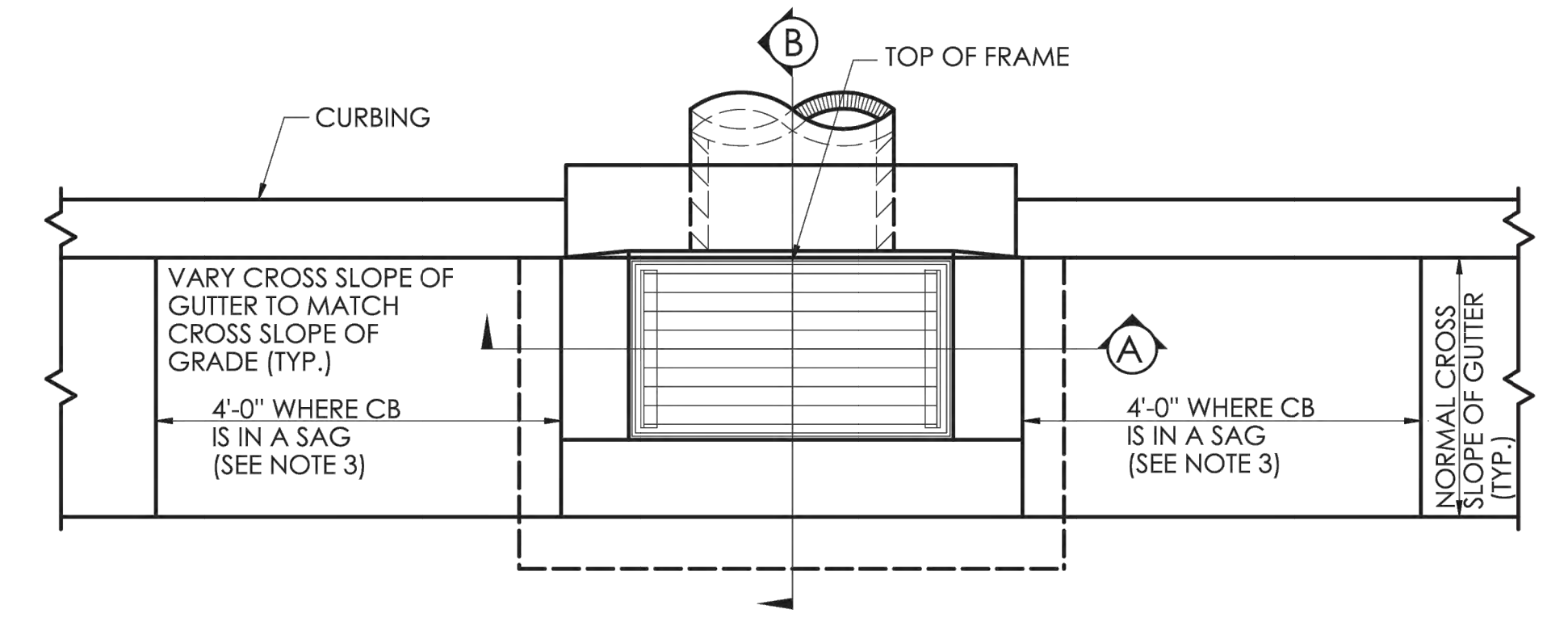
SECTION B
TYPE "C-L" CATCH BASIN



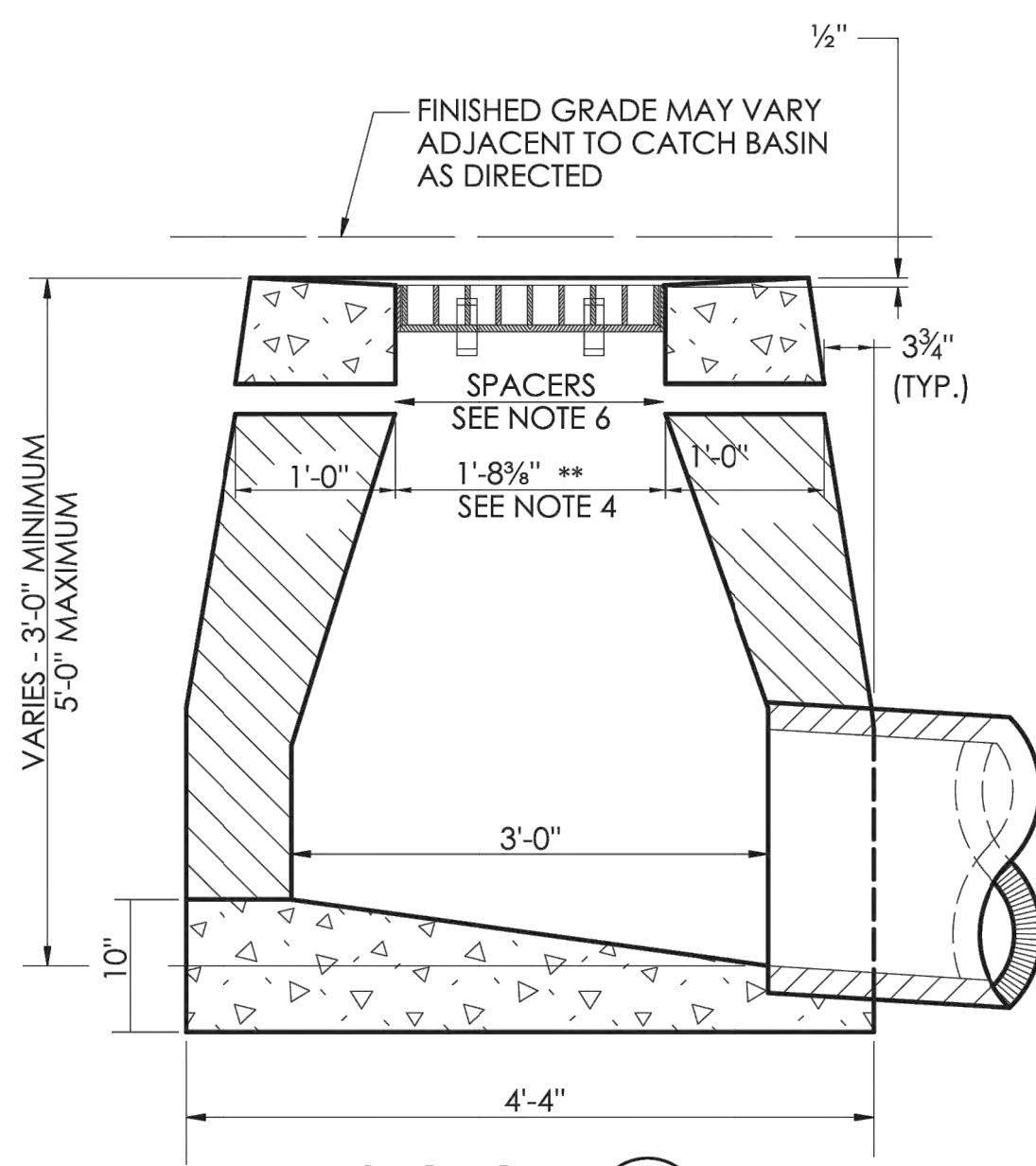
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**TYPE "C" & "C-L" CATCH BASIN
(TYPE "C" TOP SHOWN)**



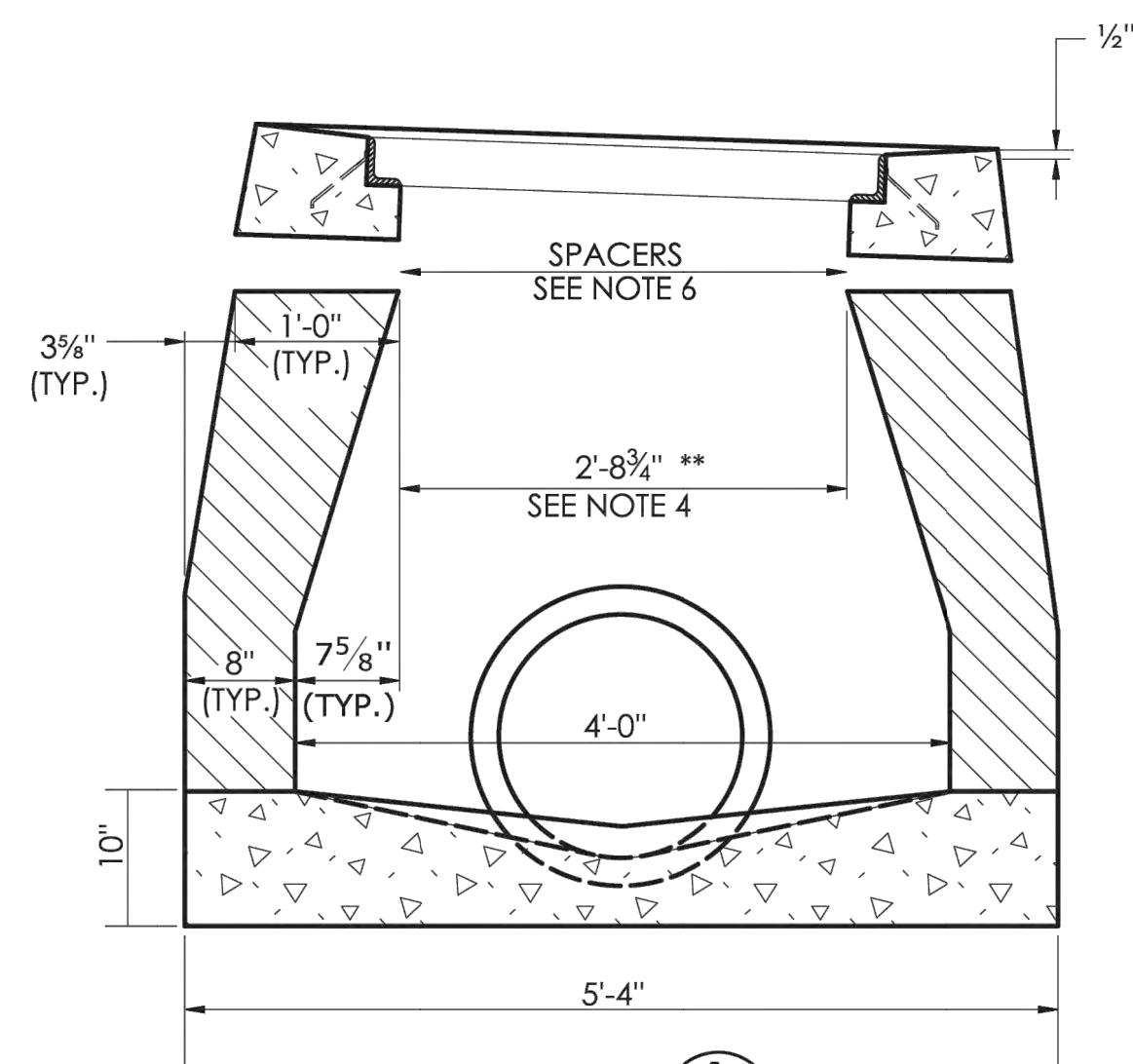
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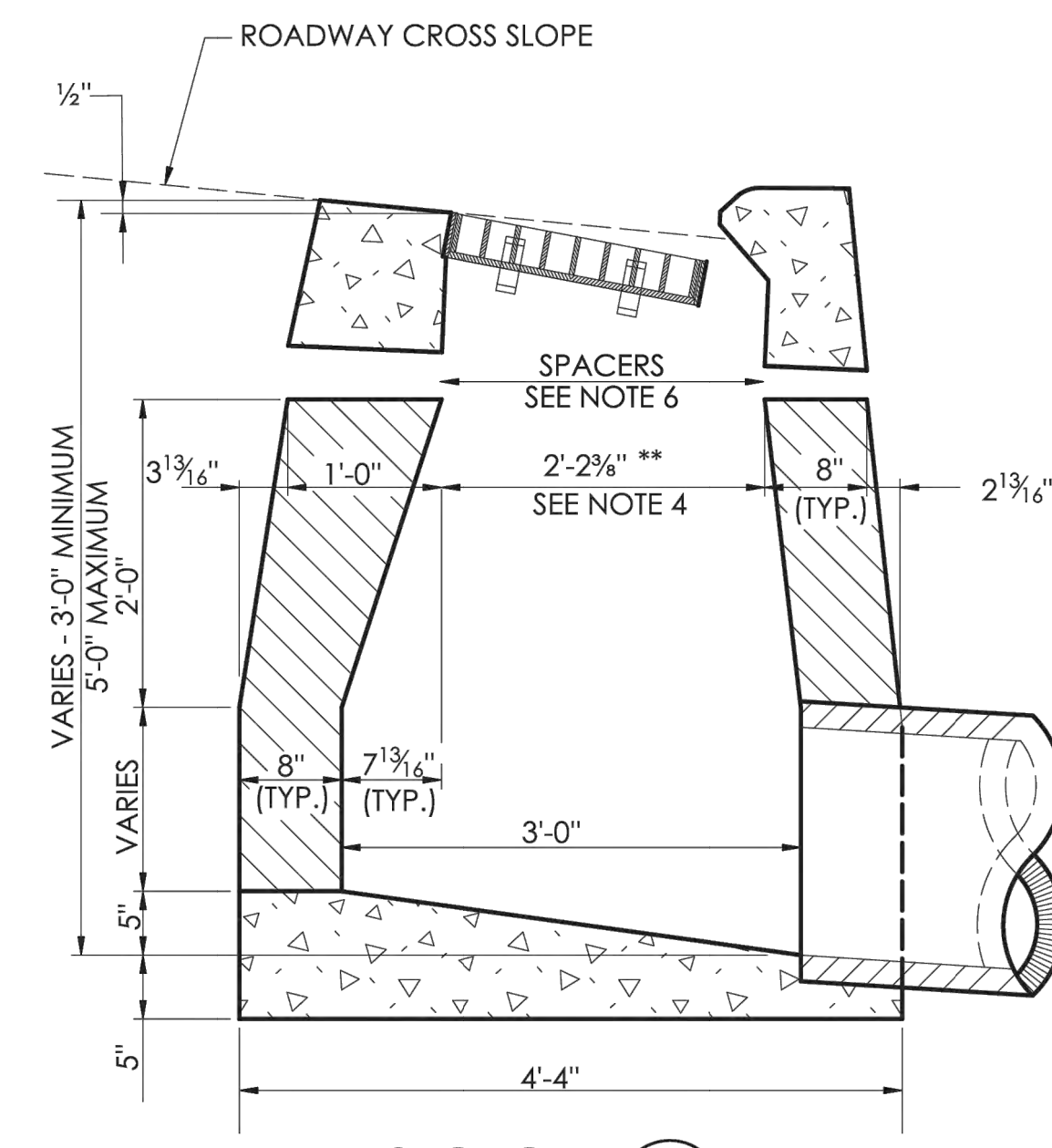
PLAN
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



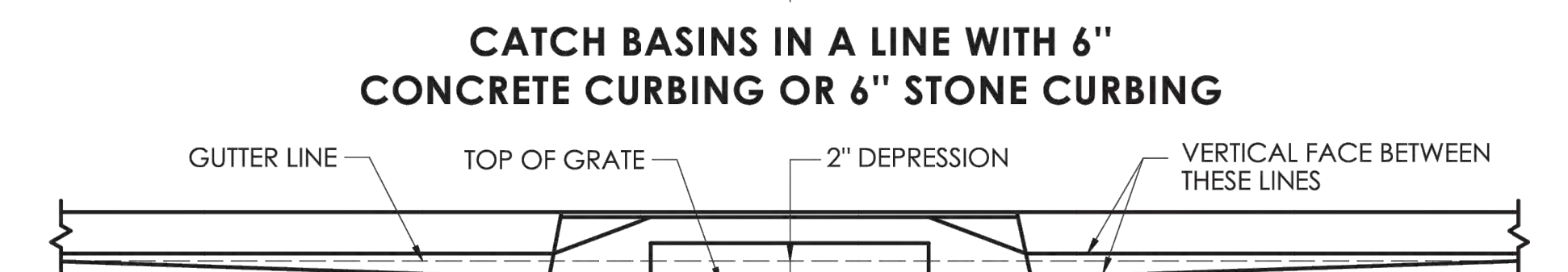
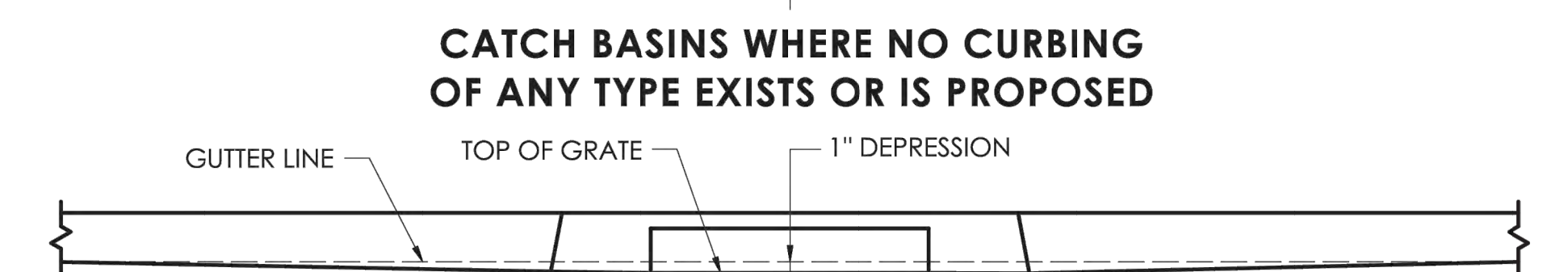
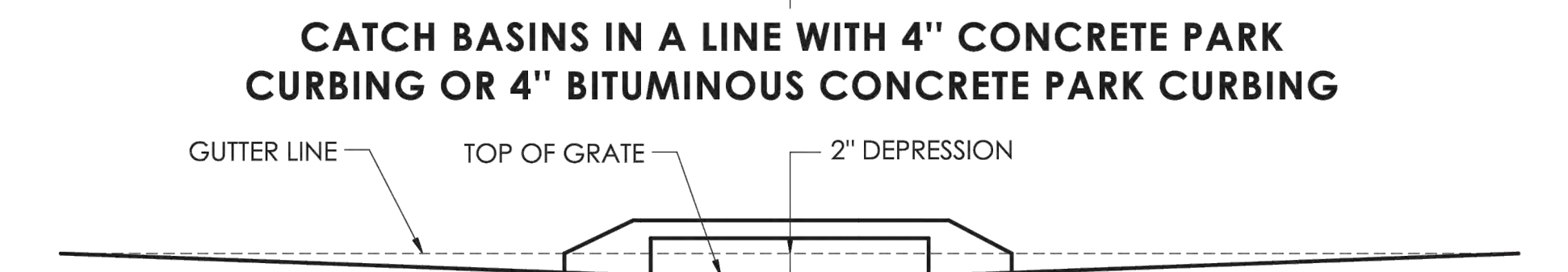
SECTION B
TYPE "C-L" DROP INLET



SECTION A
**TYPE "C" & "C-L" DROP INLET
(TYPE "C-L" TOP SHOWN)**



SECTION B
TYPE "C" DROP INLET



GENERAL NOTES:

1. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS **.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. FOR GRADE ADJUSTMENT OF THE CATCH BASIN TOP (TO MATCH THE ROADWAYS' PROFILE AND CROSS-SLOPE SHOWN ON THE PLANS) USE SPACERS EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) COMBINED WITH MORTAR AS NEEDED TO PROVIDE THE PROPER GRADE ADJUSTMENTS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.

FILE LOCATION: P:\CTD\010188 - TOWN OF LITCHFIELD\188-001 - SPRINGS AVENUE DRAINAGE - DNR02-CAD - FILE\BIOCAL\DWG\188-001 PROJECT DWG - 2025.08.16. 10:35 AM

PLOTTED DATE: 10/22/2024

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Leo Fontaine
Digitally signed by
Leo Fontaine, P.E.
Date: 2024.12.16
10:08:07-05'00'

APPROVED BY:
Michael N. Calabrese
Digitally signed by
Michael N.
Calabrese, P.E.
Date: 2025.01.21
12:35:34-05'00'



CTDOT
STANDARD SHEET

STANDARD SHEET TITLE:

CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES

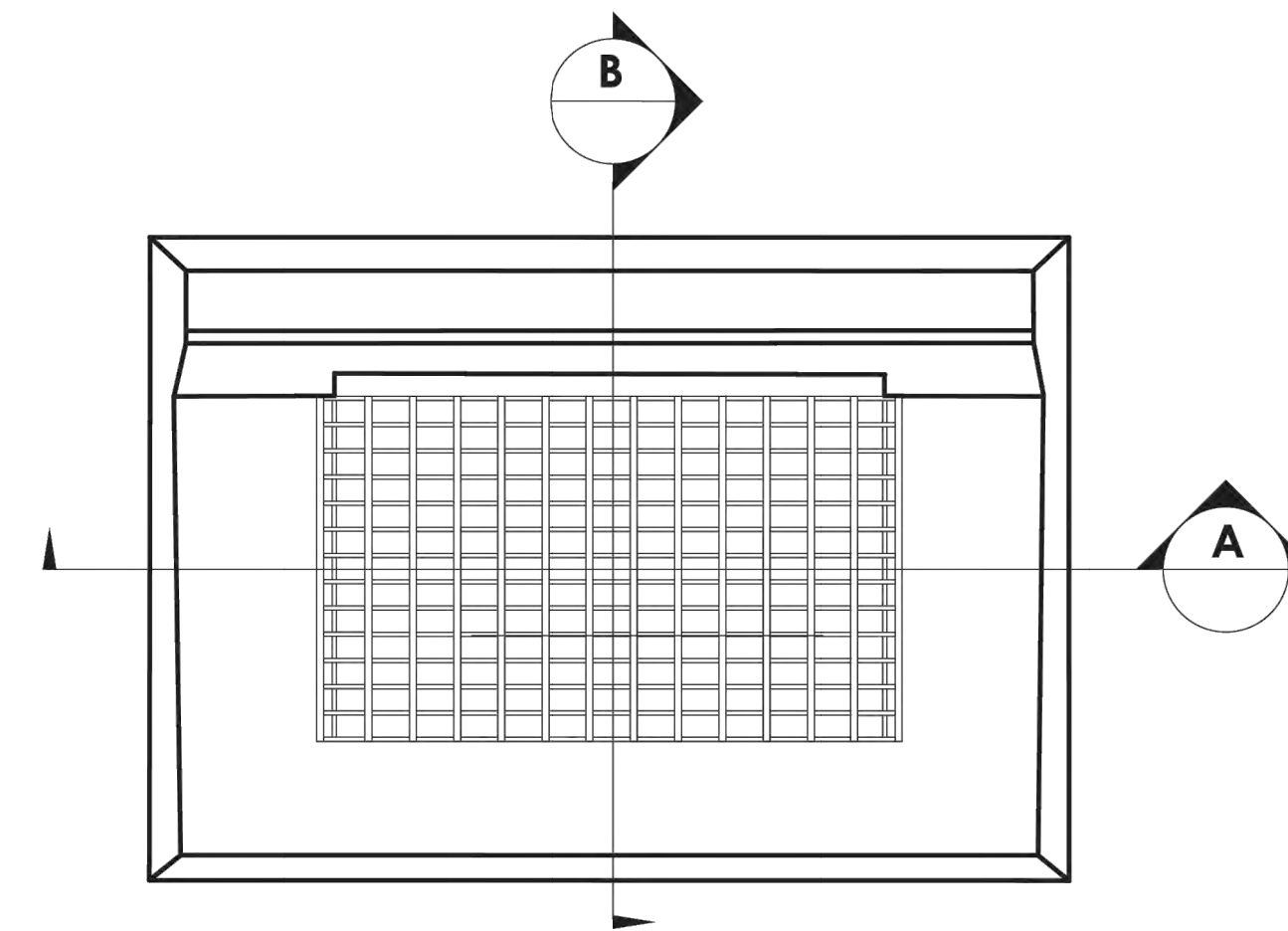
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HW-586_01

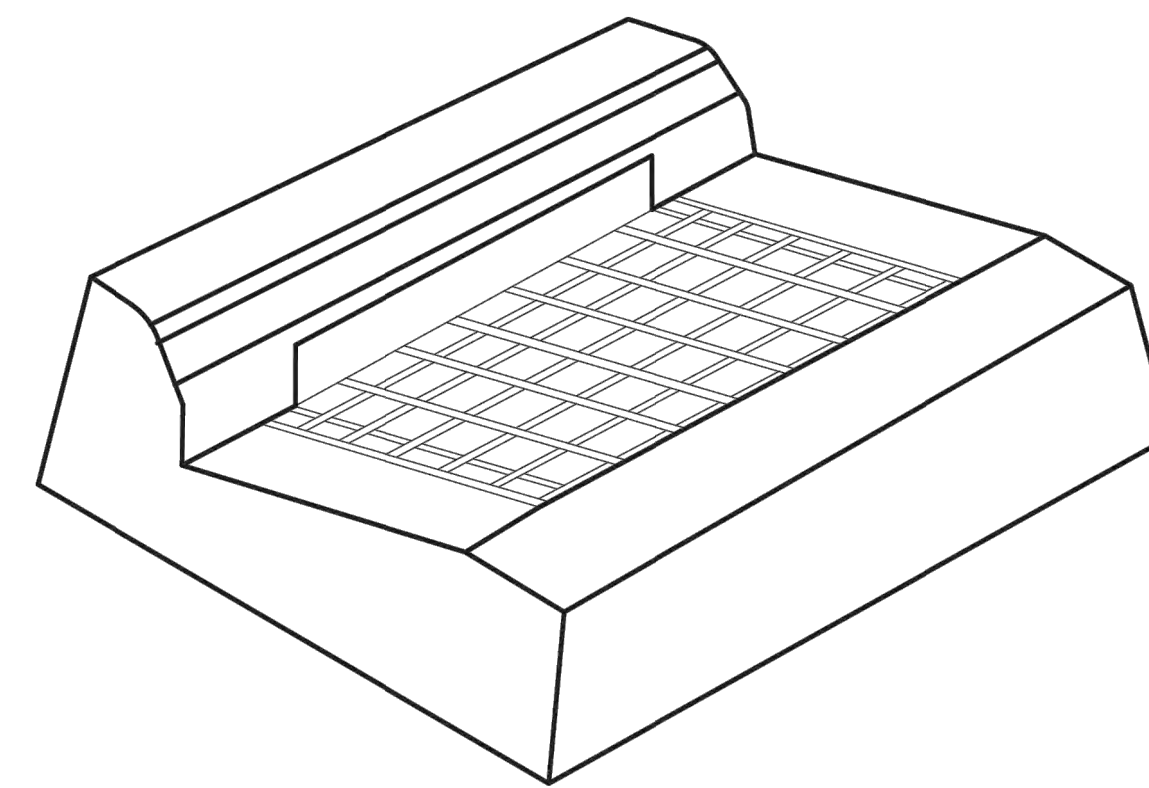
GENERAL NOTES:

- SEE SHEET HW-586_08, FOR CATCH BASIN FRAMES AND GRATES AND HW-586_09 FOR CATCH BASIN LOCK DOWN TOPS.
- SEE SHEET HW-586_01, CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" TO DETERMINE THE TOP OF FRAME DEPRESSION AT THE GUTTER.
- ALL BARS SHALL HAVE A MINIMUM 2" COVER.
- Manufacturing Dimensional Tolerance Table

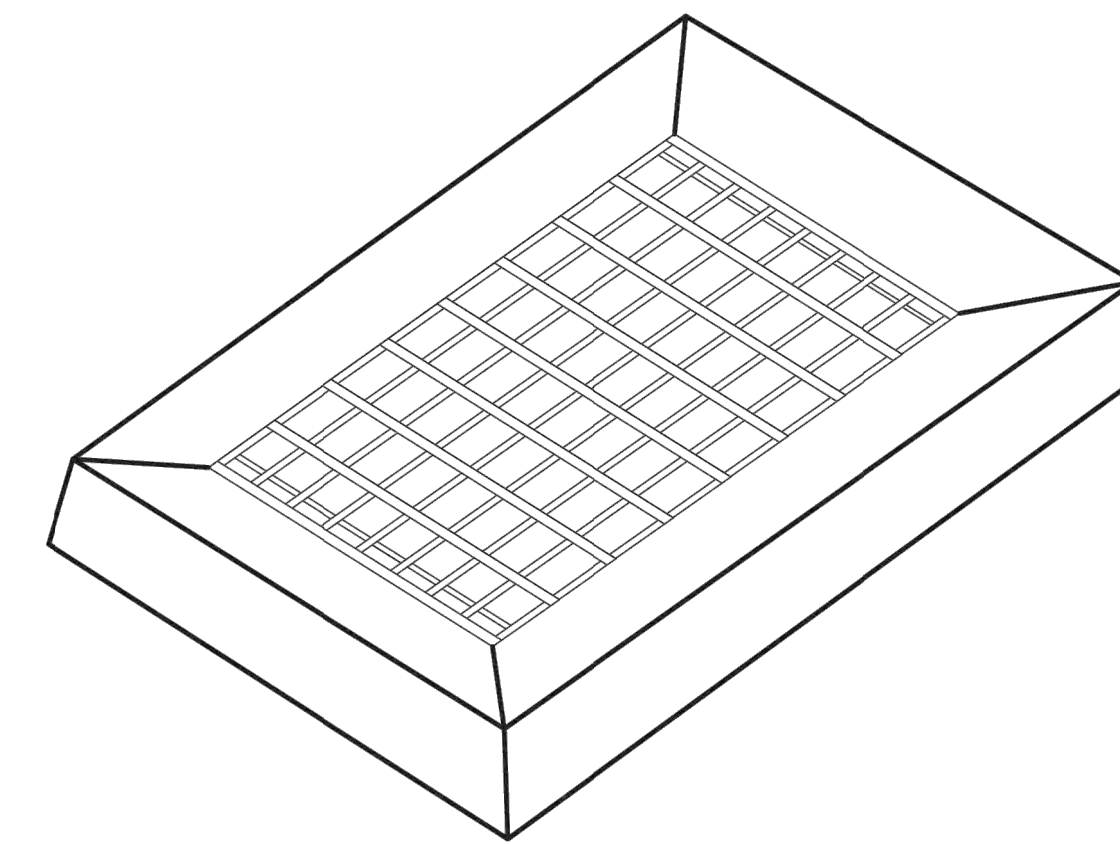
Any Dimension (D)	Allowable Tolerance
D < 5"	± 1/4"
5" ≤ D ≤ 10"	± 1/2"
D > 10"	± 1"



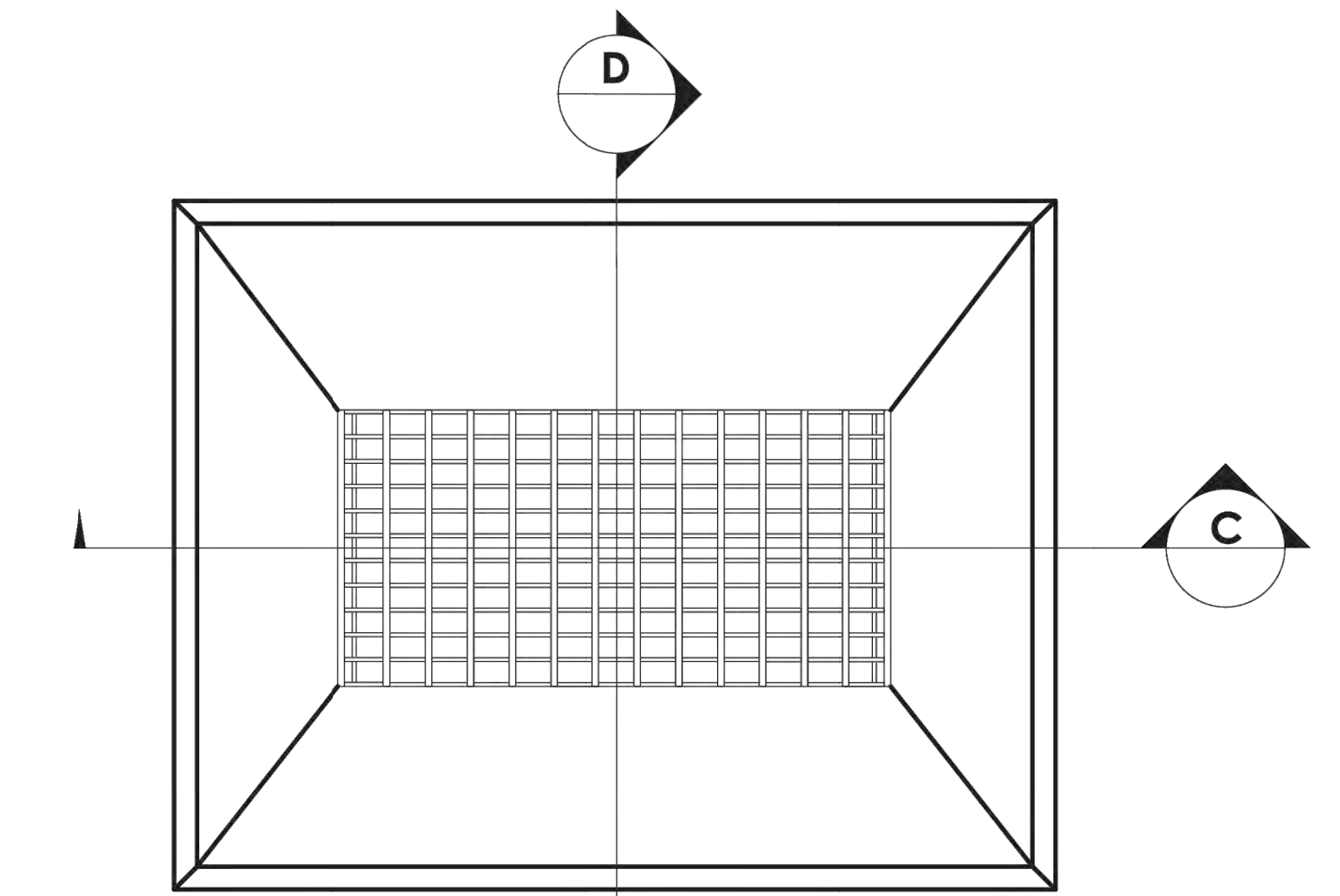
TYPE "C" CATCH BASIN TOP PLAN



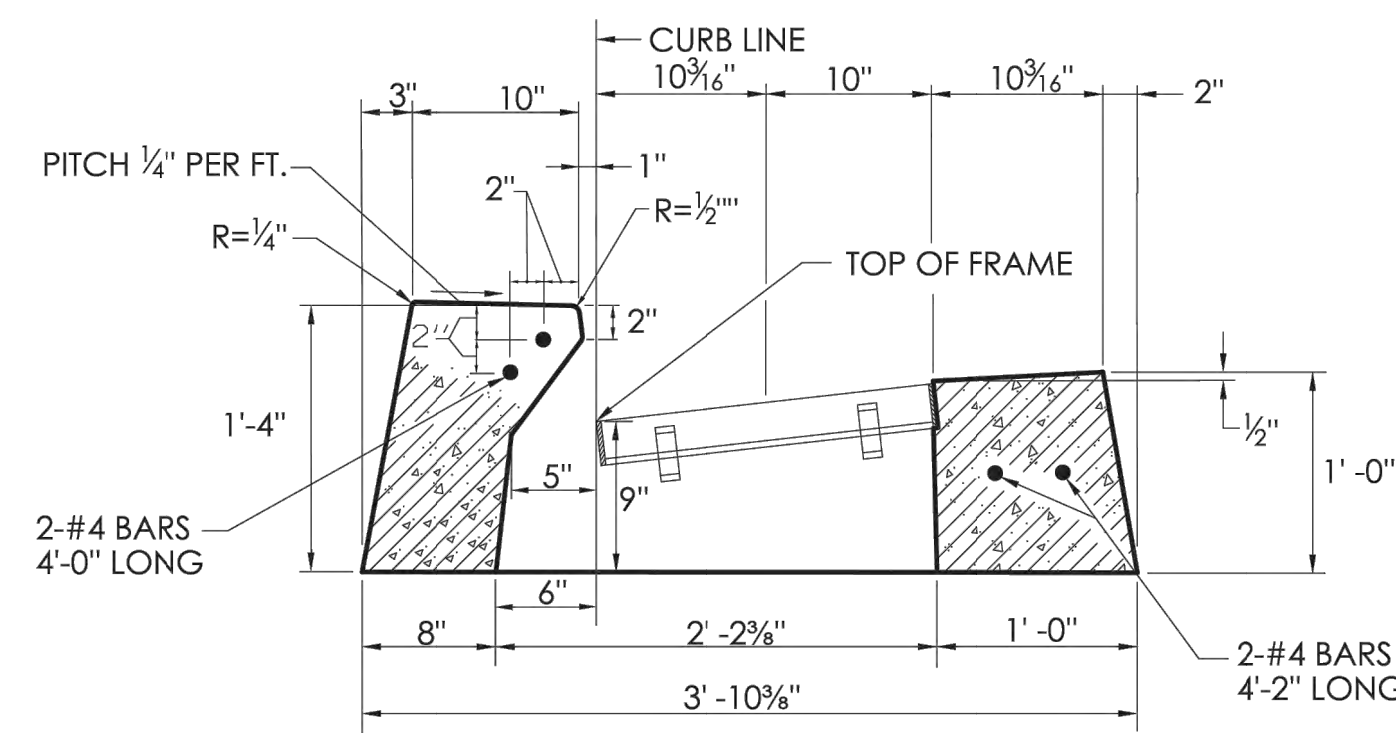
TYPE "C" CATCH BASIN TOP



TYPE "C-L" CATCH BASIN TOP

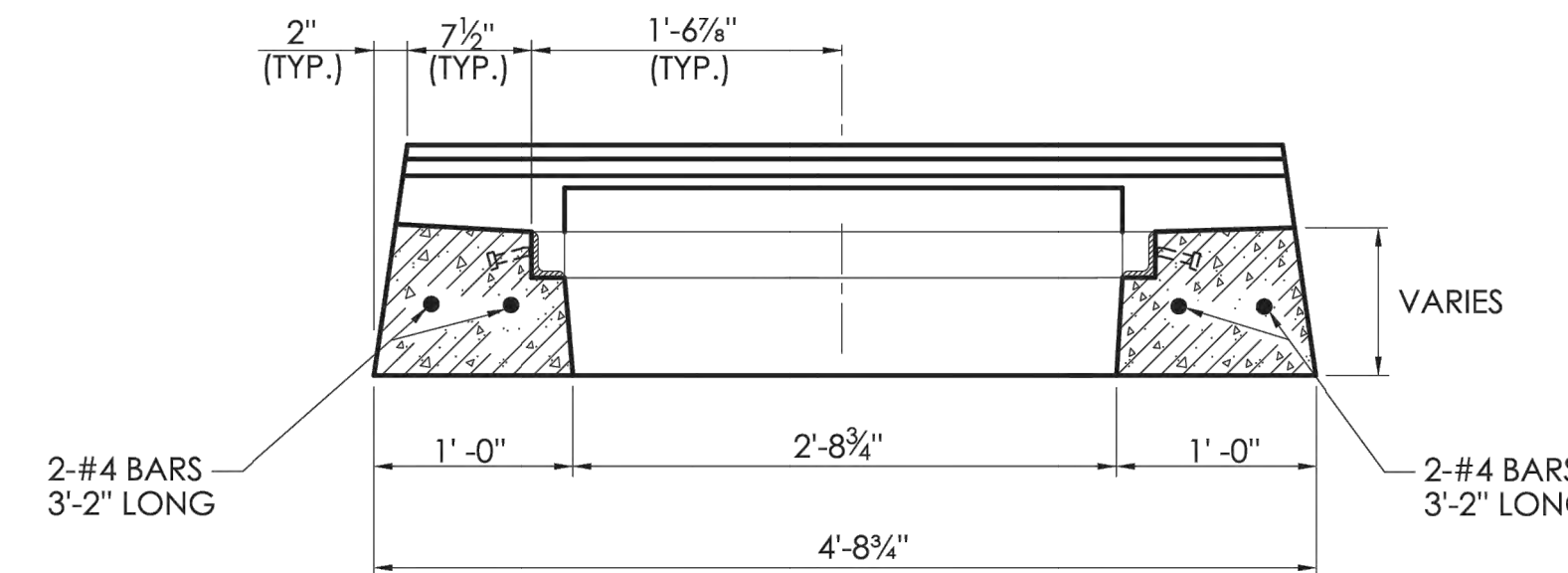


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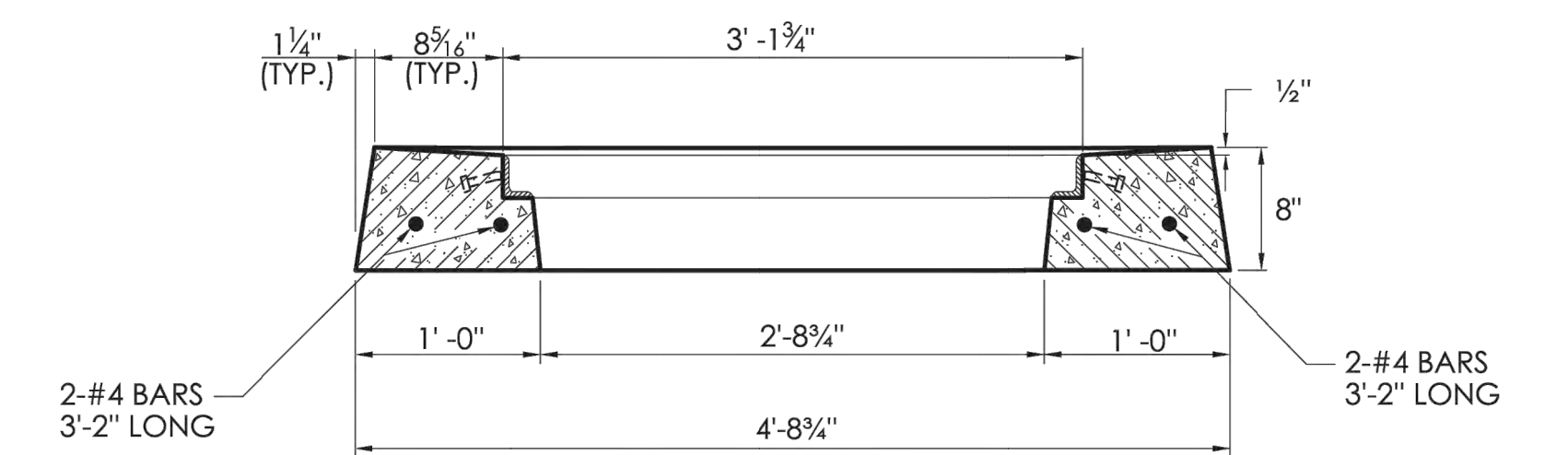
TYPE "C" CATCH BASIN TOP FOR 6" CONCRETE CURBING OR 6" STONE CURBING

SECTION B



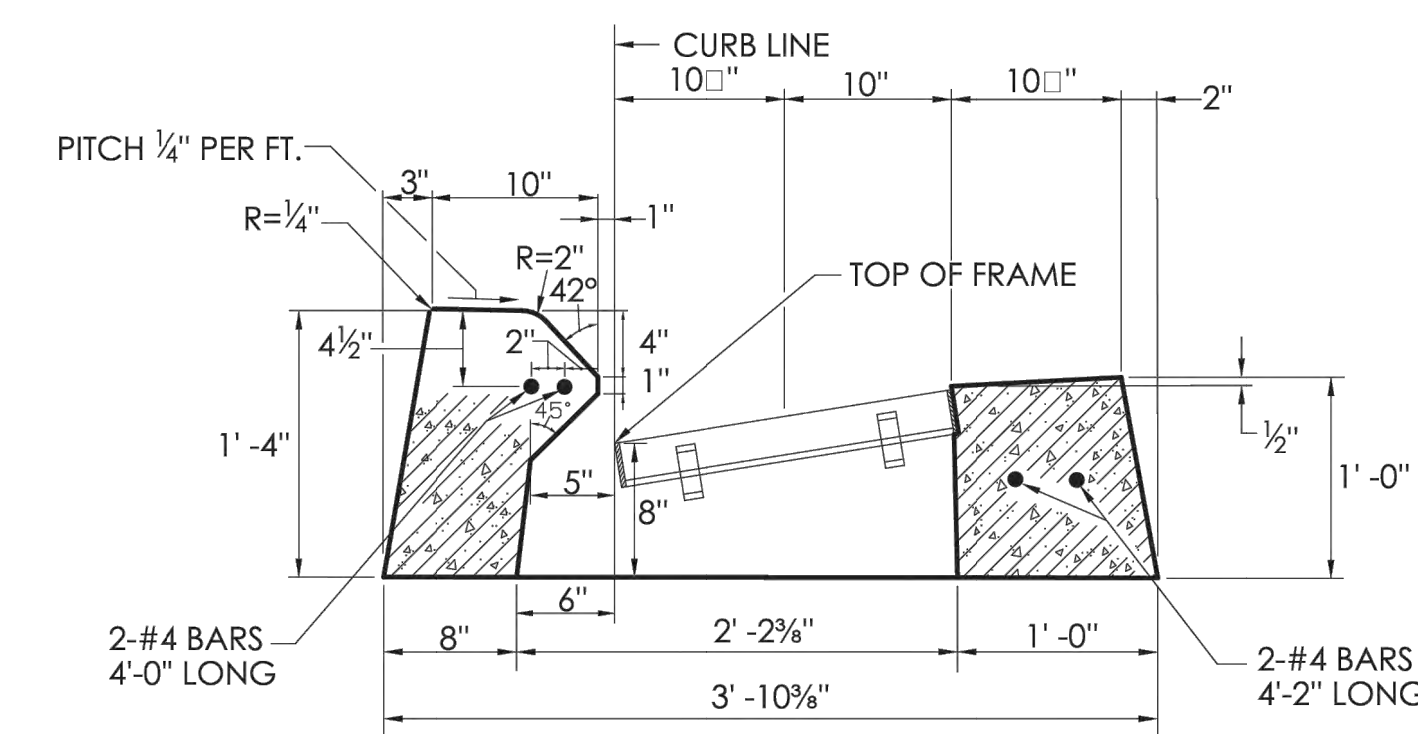
TYPE "C" CATCH BASIN TOP

SECTION A



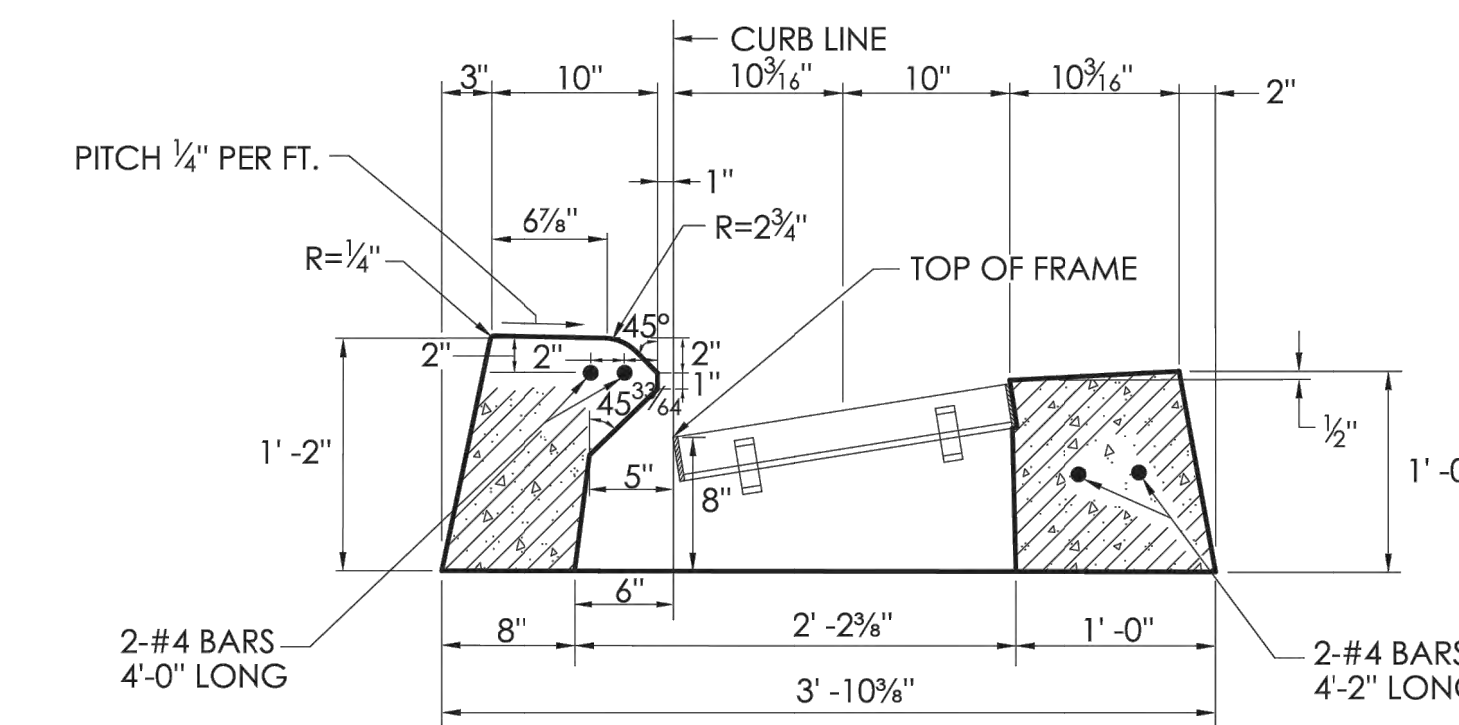
TYPE "C-L" CATCH BASIN TOP

SECTION C



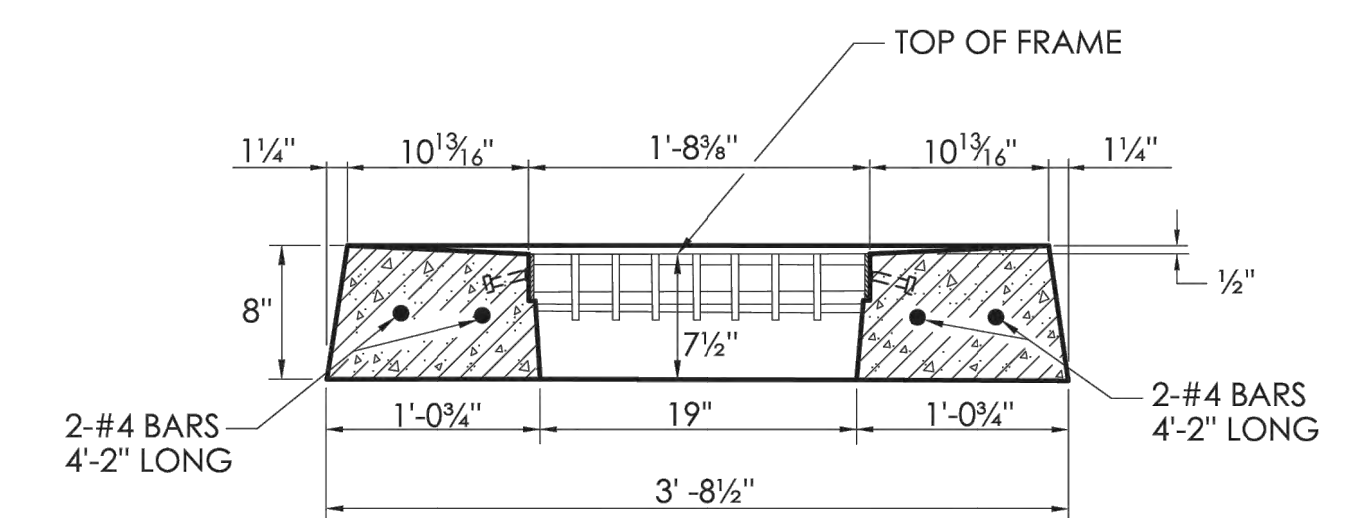
TYPE "C" CATCH BASIN TOP FOR 6" BITUMINOUS CONCRETE LIP CURBING

SECTION B



TYPE "C" CATCH BASIN TOP FOR 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING

SECTION B



TYPE "C-L" CATCH BASIN TOP

SECTION D

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Leo Fontaine
Digitally signed by
Leo Fontaine, P.E.
Date: 2024.12.16
10:20:48-05'00'

APPROVED BY:
Michael N. Calabrese
Digitally signed by
Michael N.
Calabrese, P.E.
Date: 2025.01.21
12:42:28-05'00'



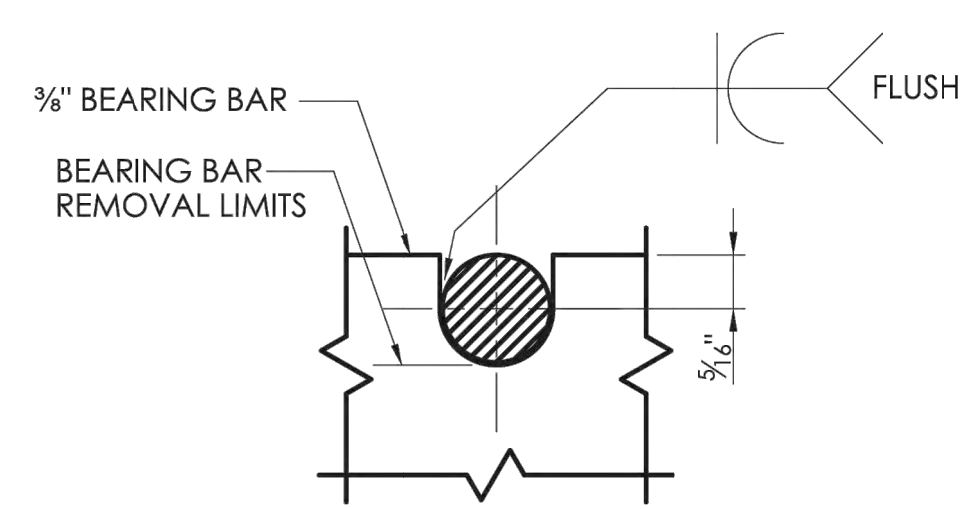
CTDOT
STANDARD SHEET

STANDARD SHEET TITLE:

CATCH BASIN TYPE "C" AND "C-L" TOPS

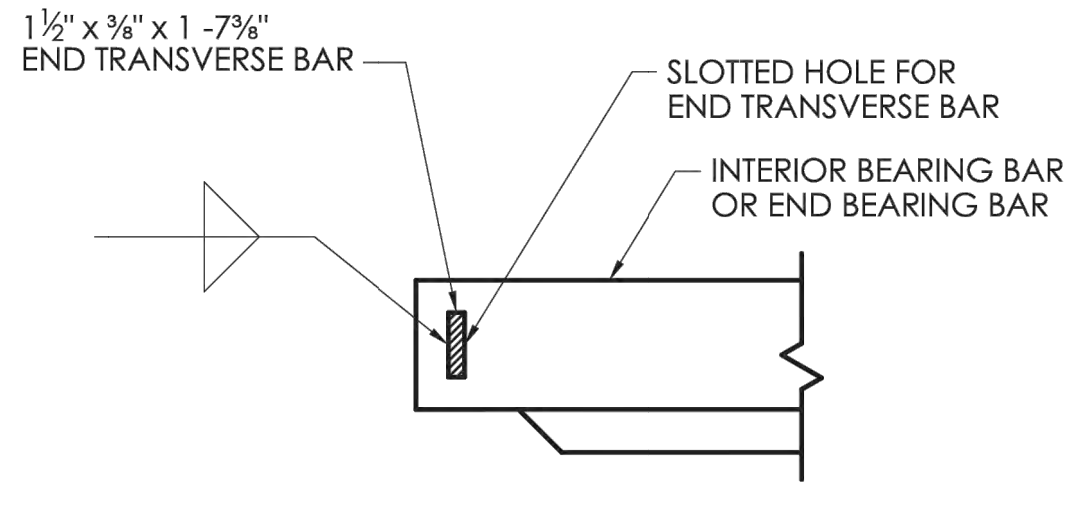
STANDARD SHEET NO.:

HW-586_07a

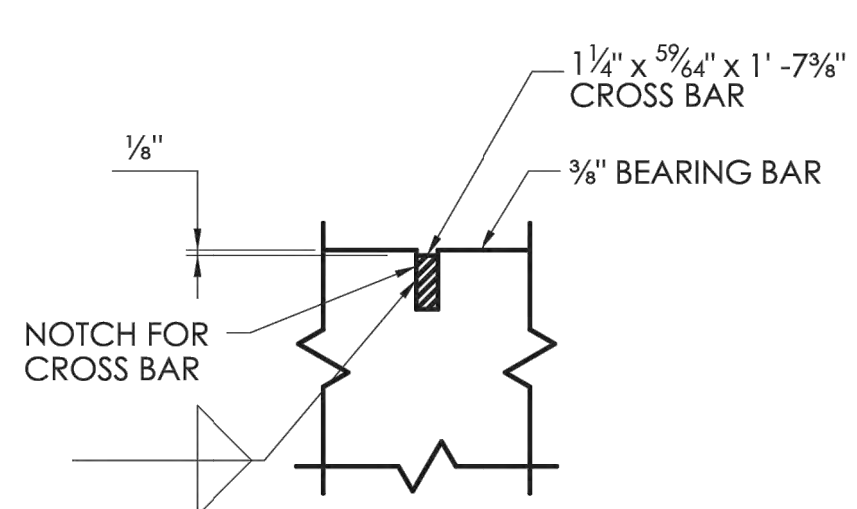


NOTE:
3/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

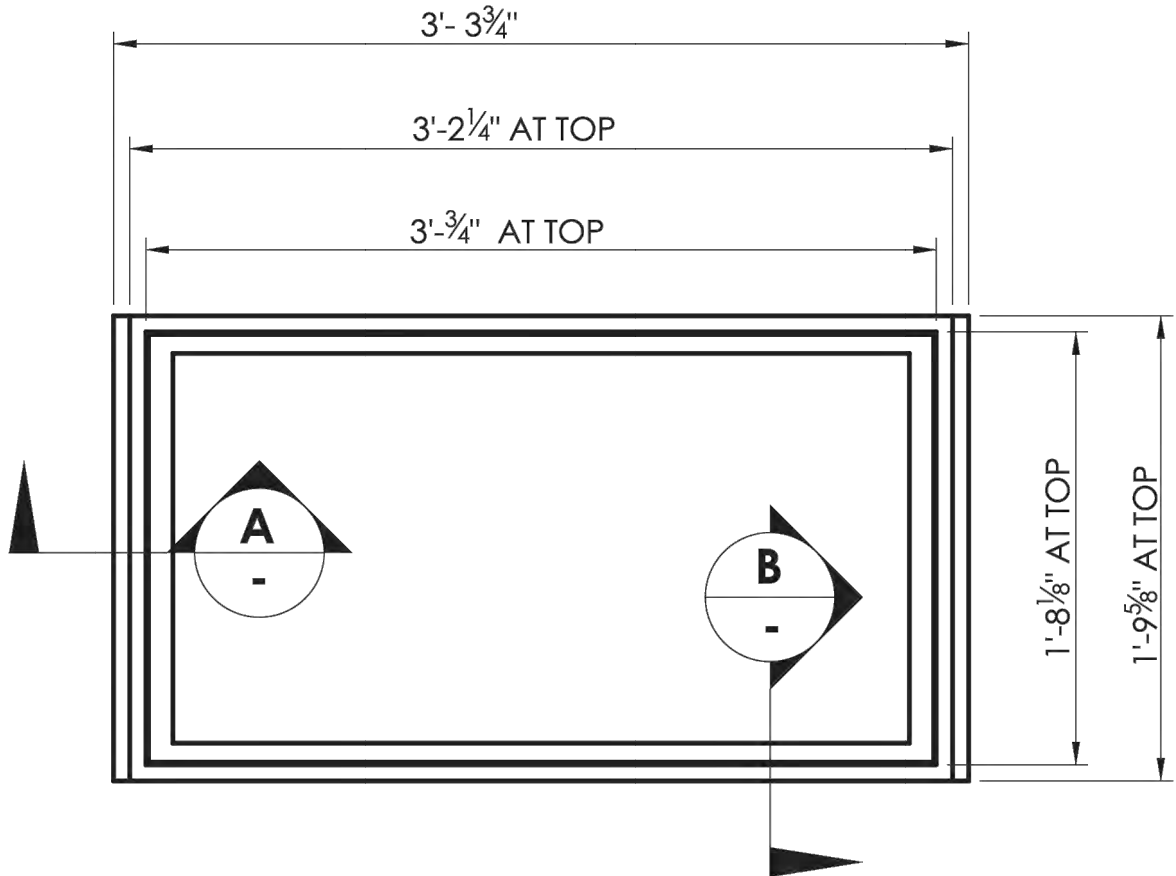
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B**

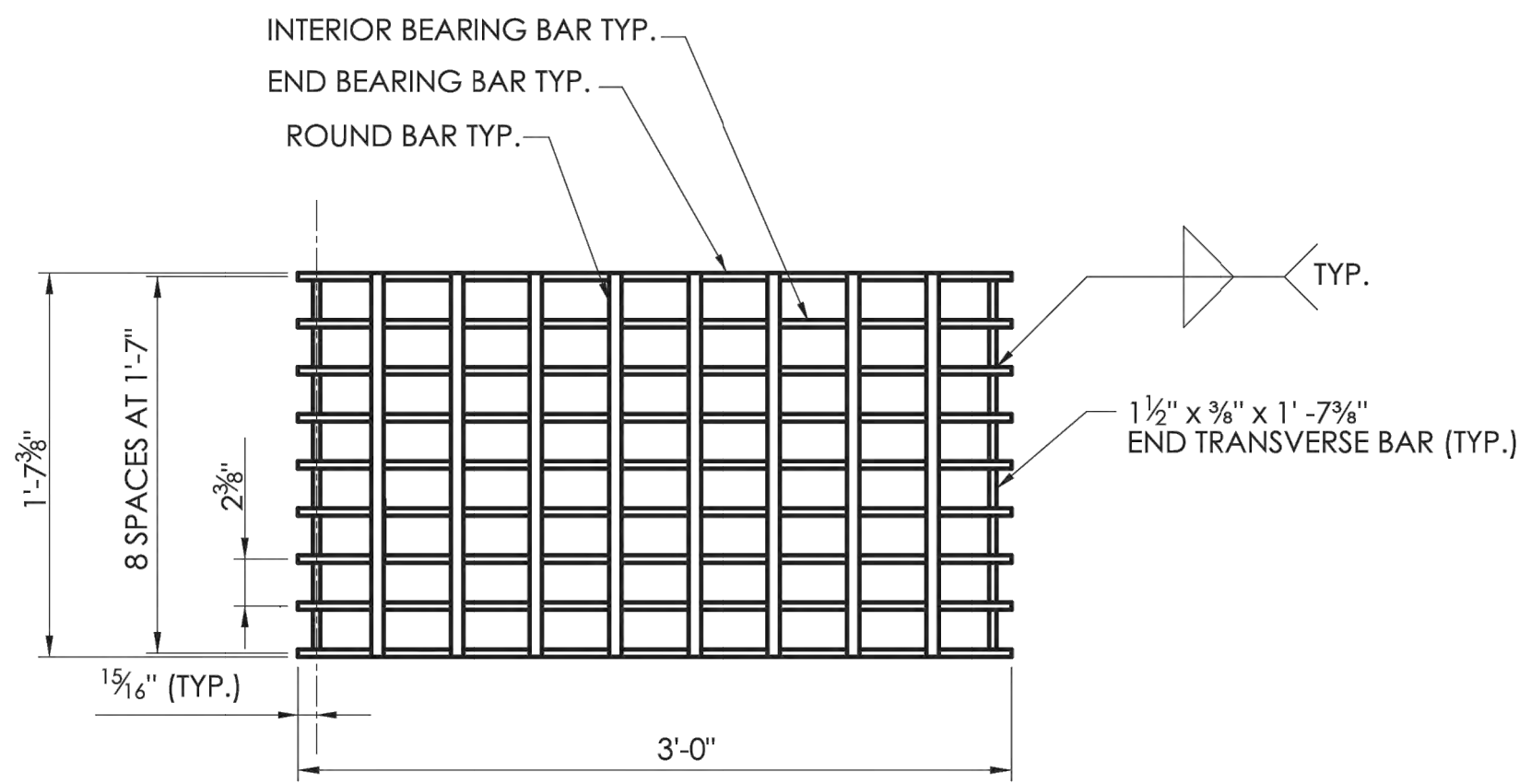


**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**

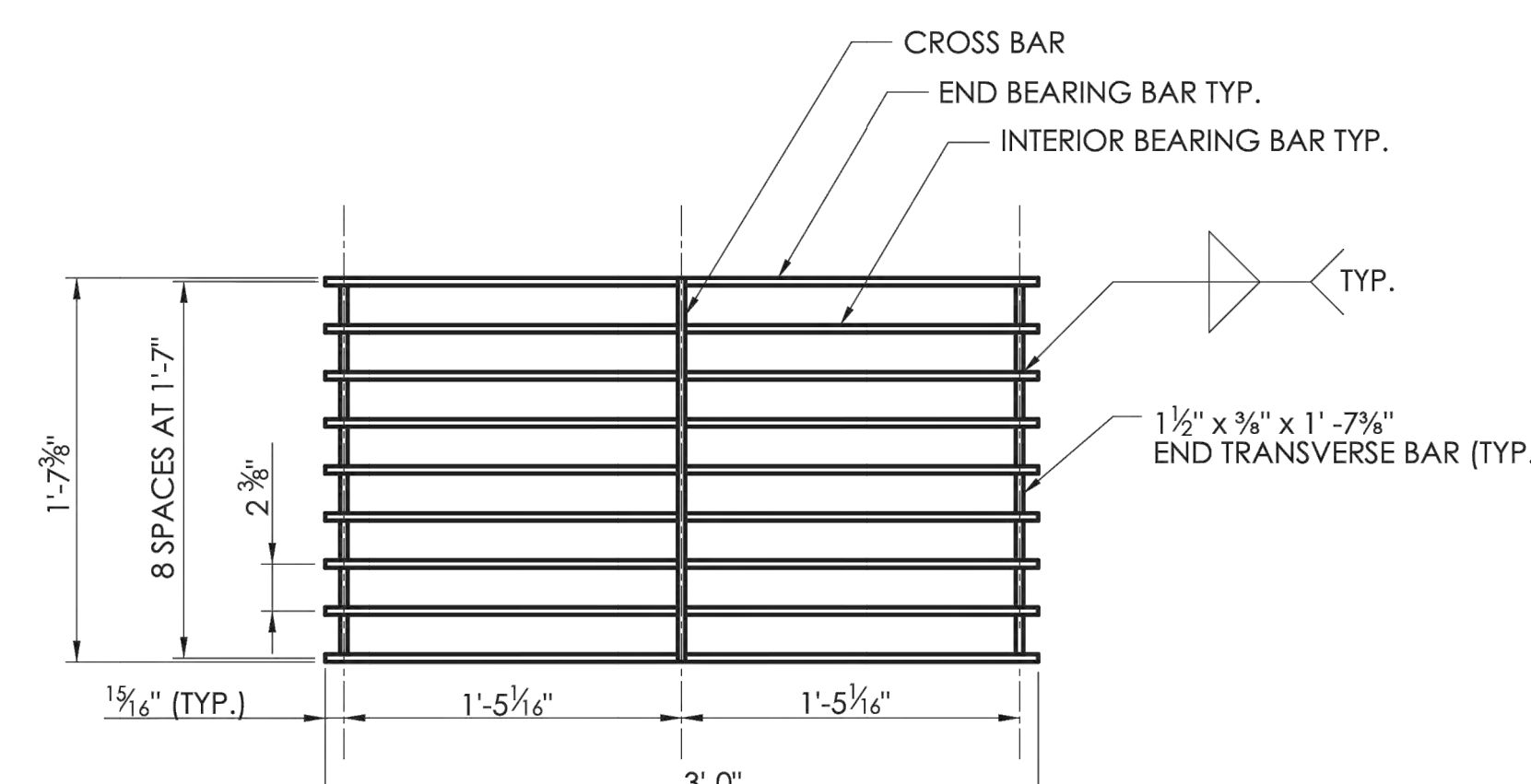


PLAN

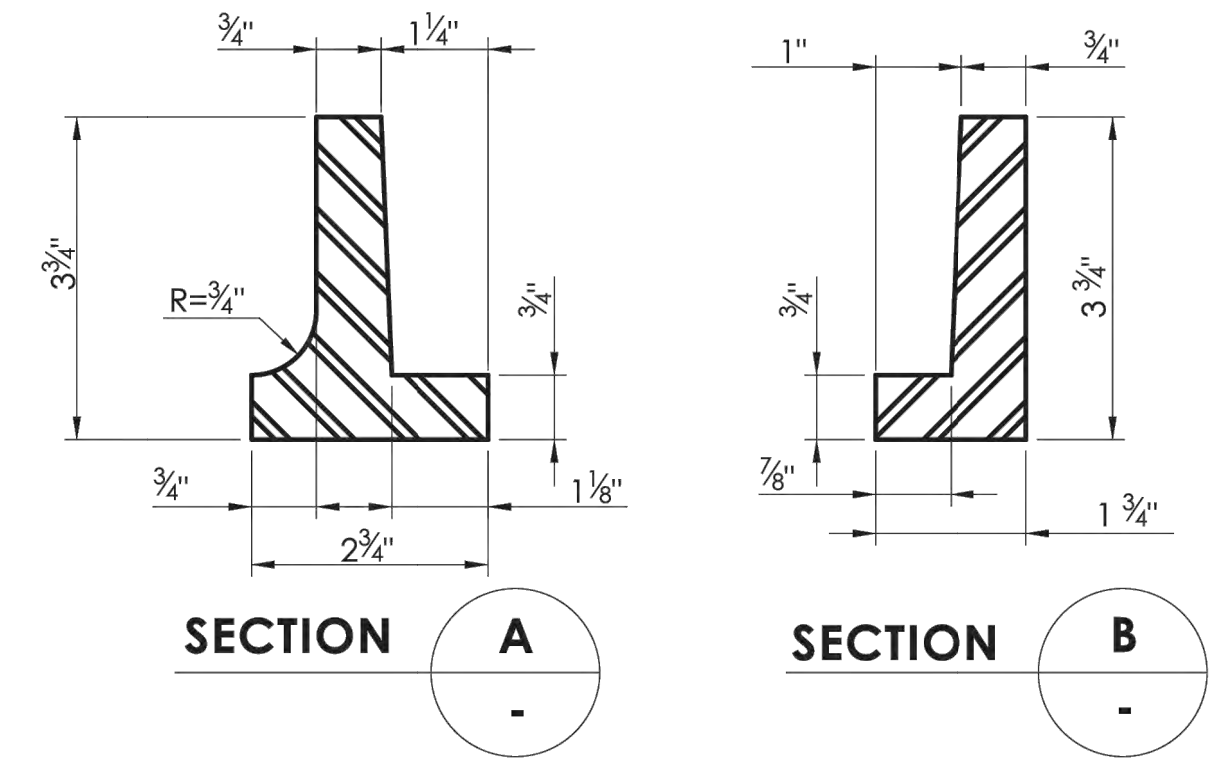
- GENERAL NOTES:**
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
 2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
 3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
 4. DO NOT GALVANIZE CAST IRON FRAMES.
 5. DIMENSIONAL TOLERANCES SHALL BE $\pm 3/8"$.
 6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



PLAN



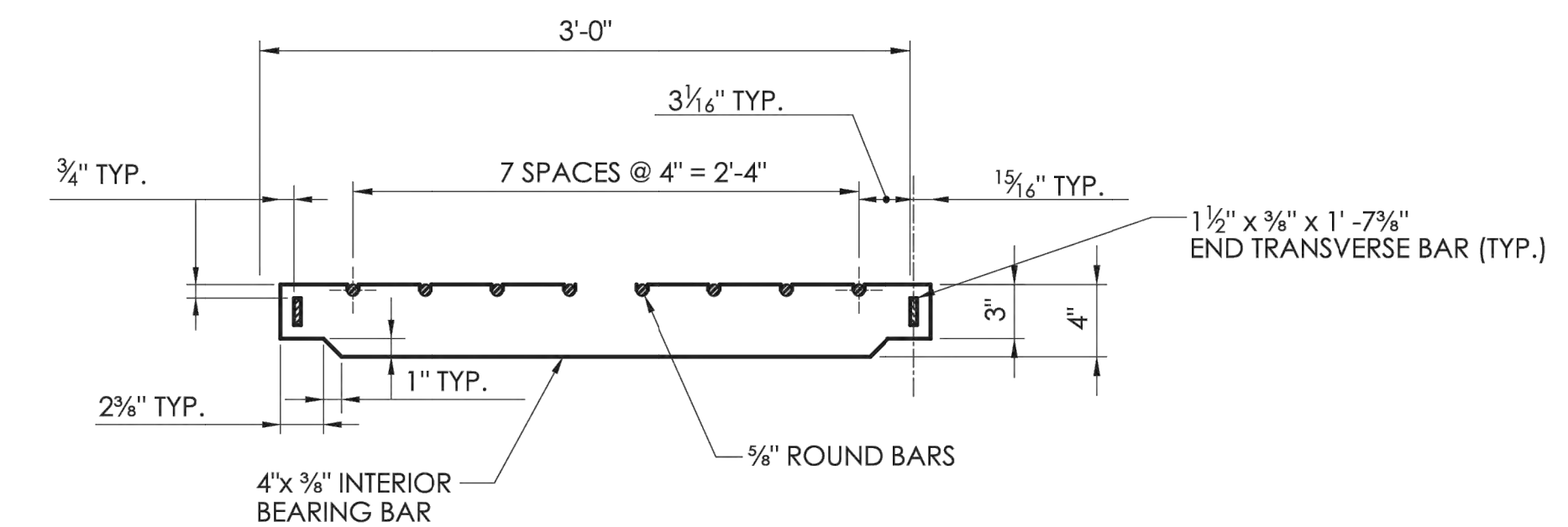
PLAN



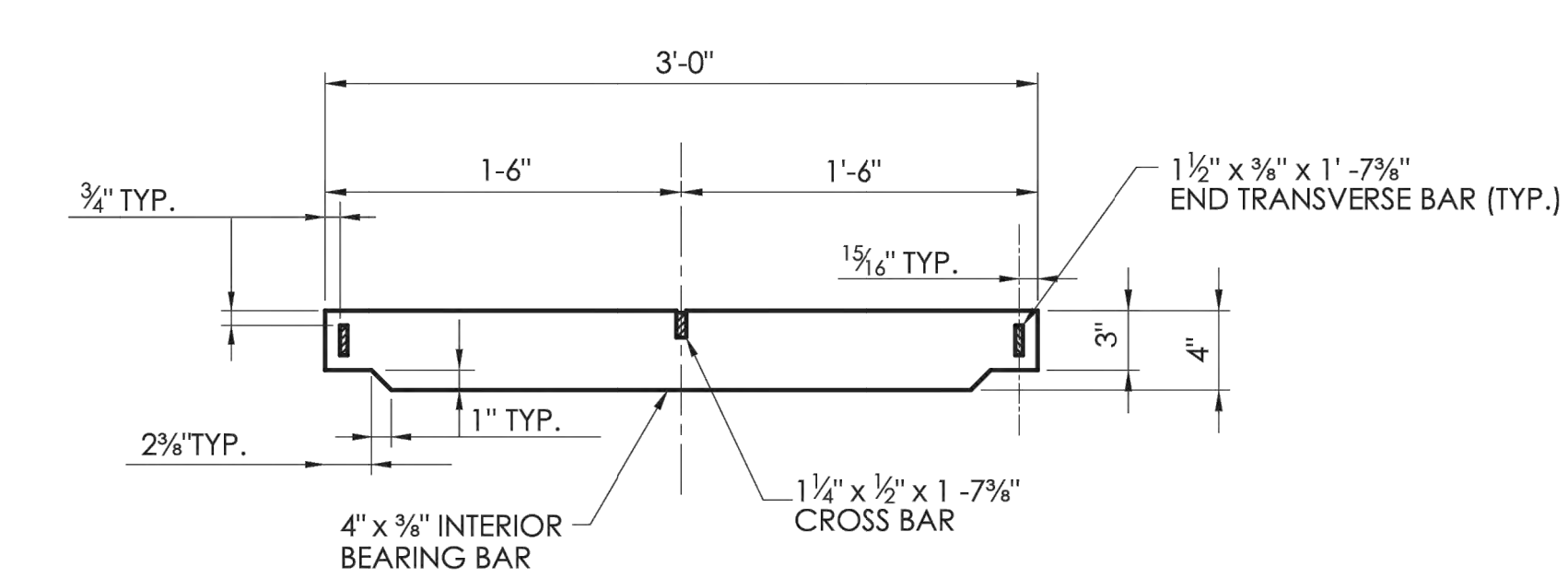
SECTION A

SECTION B

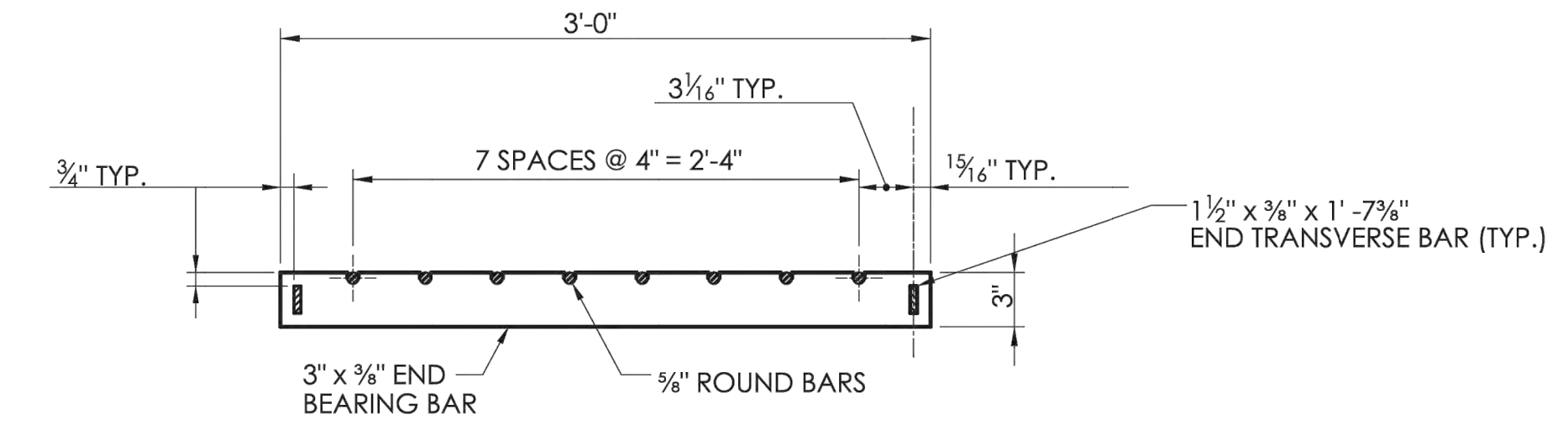
CAST IRON FRAME ALTERNATE



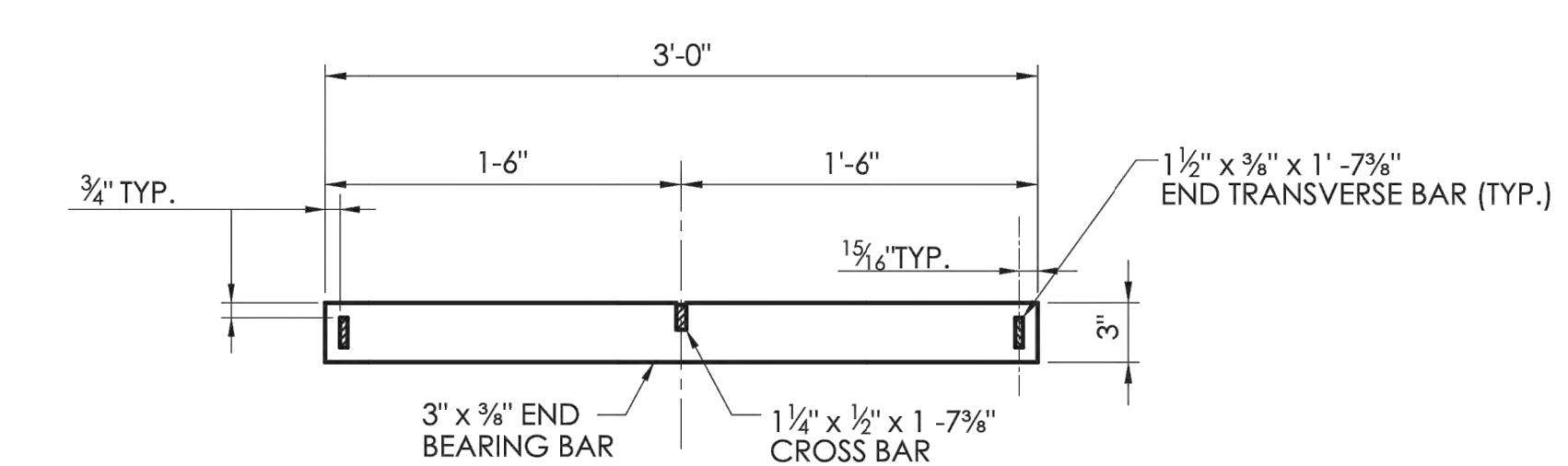
ELEVATION- INTERIOR BEARING BAR



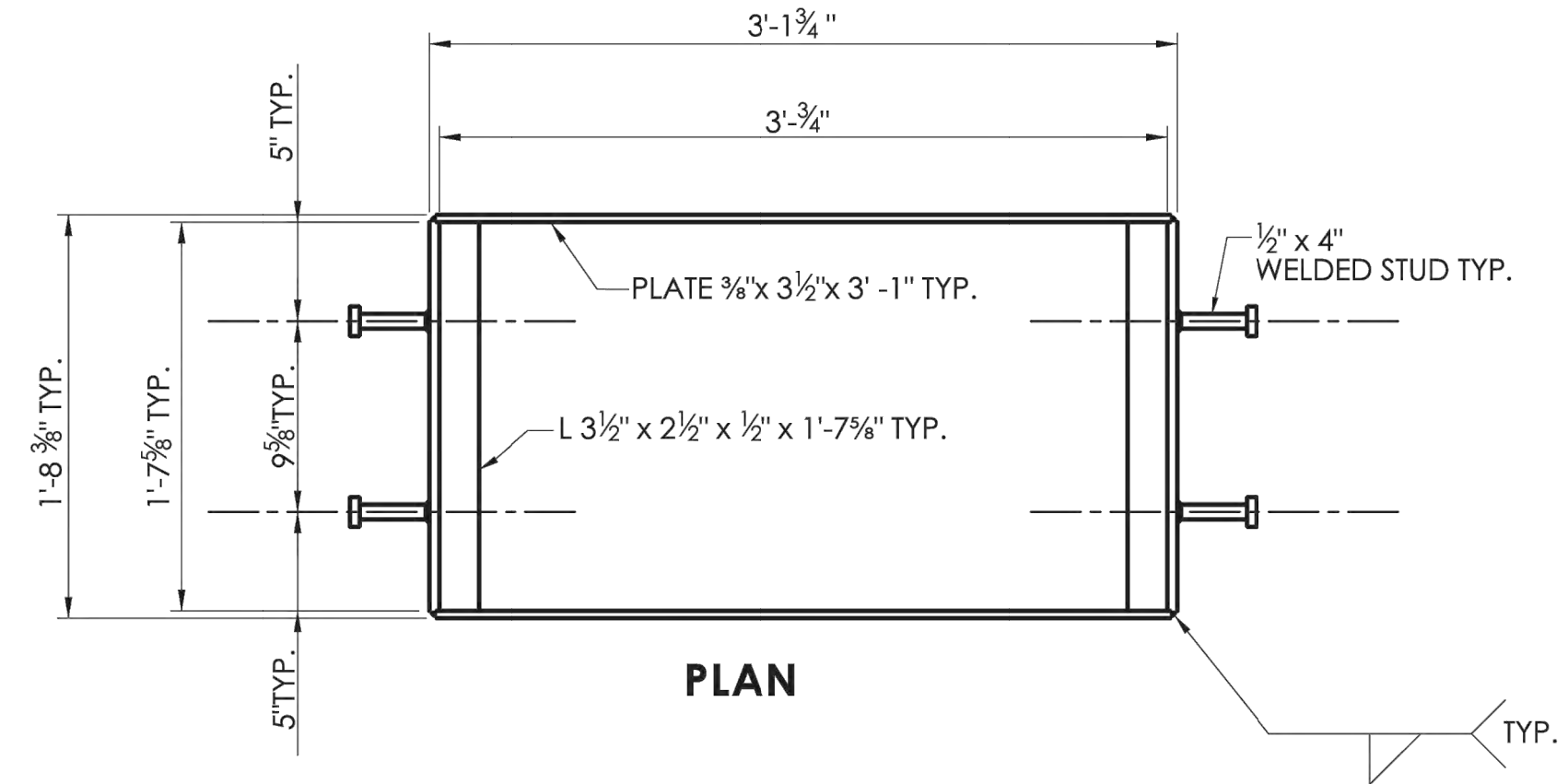
ELEVATION- INTERIOR BEARING BAR



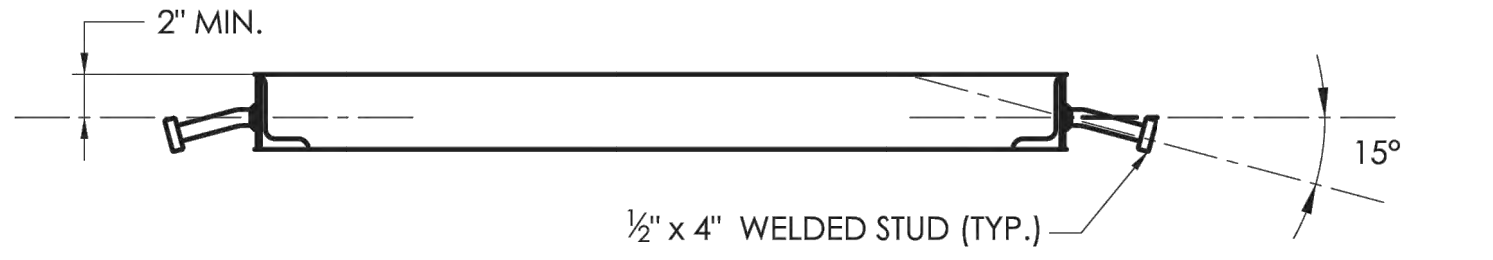
**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B**



PLAN



**WELDED STUD ANCHOR DETAILS
STEEL FRAME**

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by
Lao Fontaine, P. E.
Date: 2024.12.16
10:16:20-05'00'

APPROVED BY:
Digitally signed by
Michael N. Calabrese, P. E.
Date: 2025.01.21
13:02:17-05'00'



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

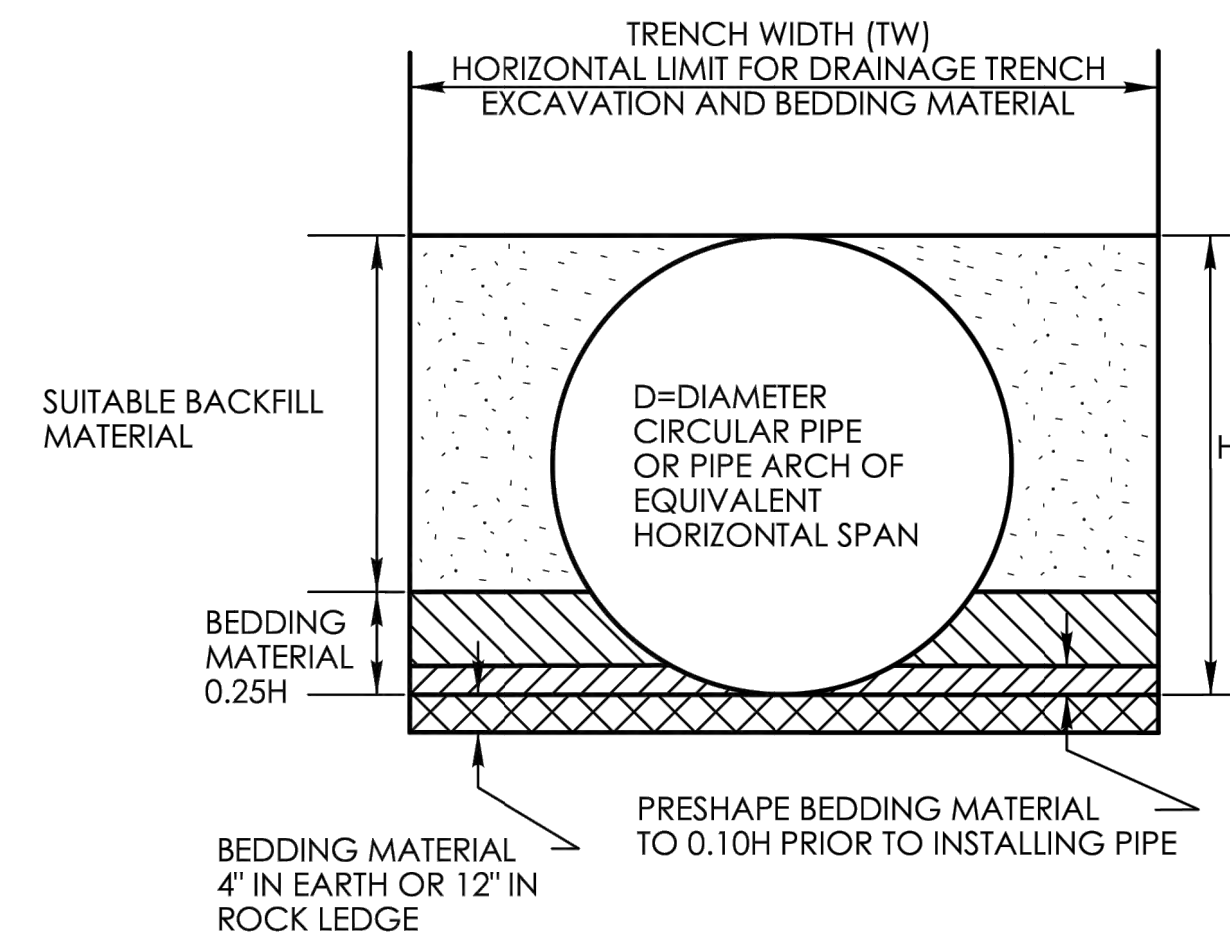
CTDOT
STANDARD SHEET

STANDARD SHEET TITLE:

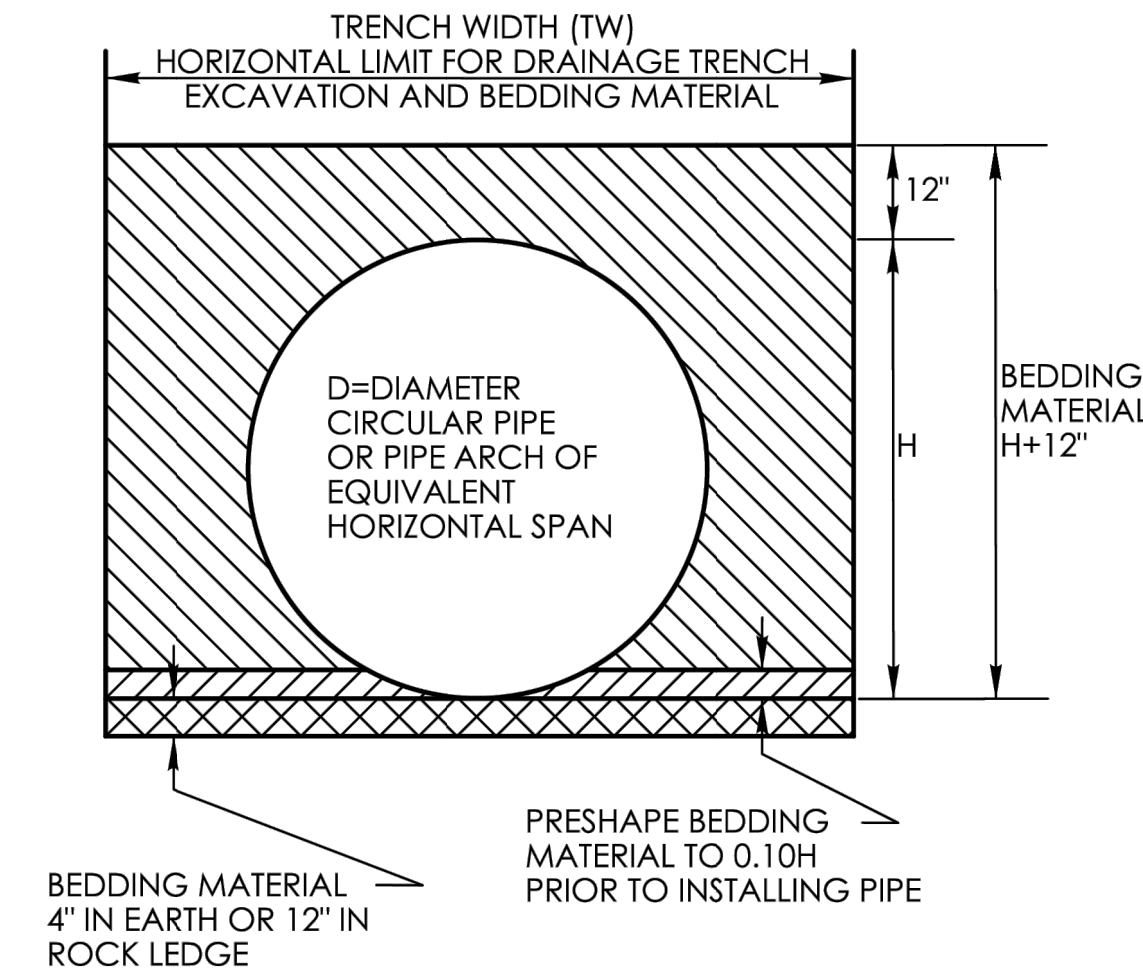
CATCH BASIN FRAMES AND GRATES

STANDARD SHEET NO.:

HW-586_08



**PIPE TRENCH
FOR PIPES LESS THAN 48"**






**PIPE TRENCH
FOR PIPES GREATER THAN
OR EQUAL TO 48"**

TRENCH WIDTH (TW) CHART

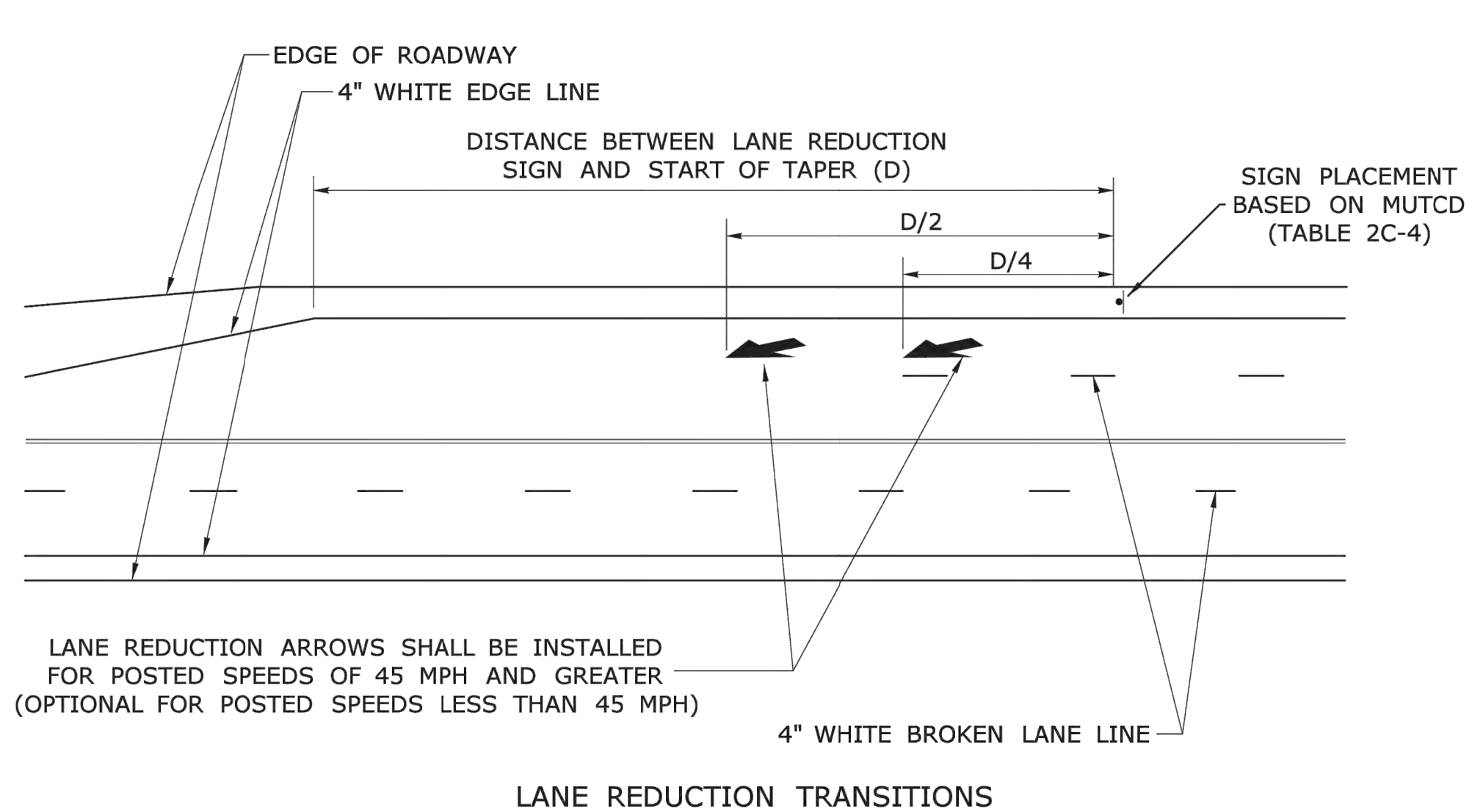
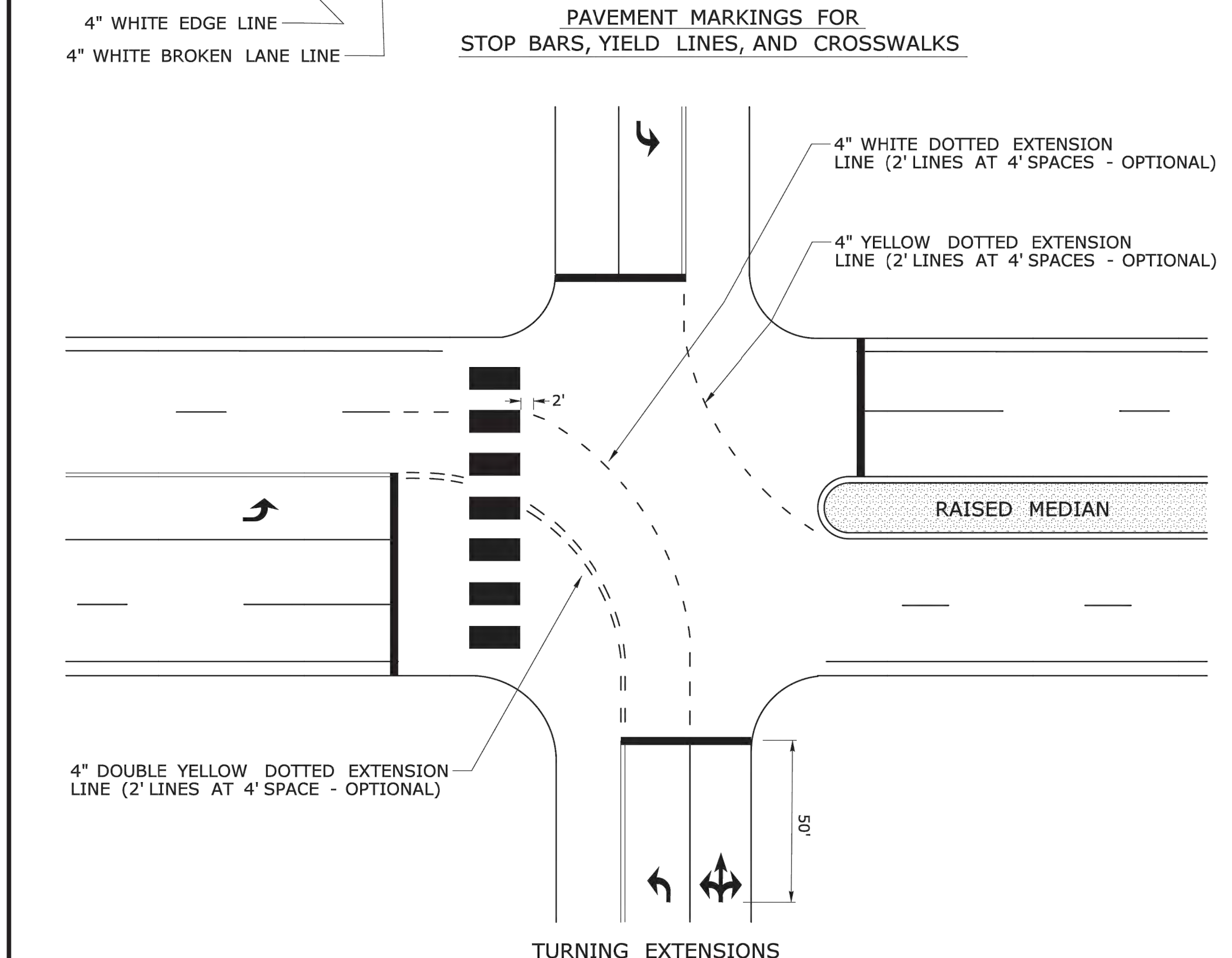
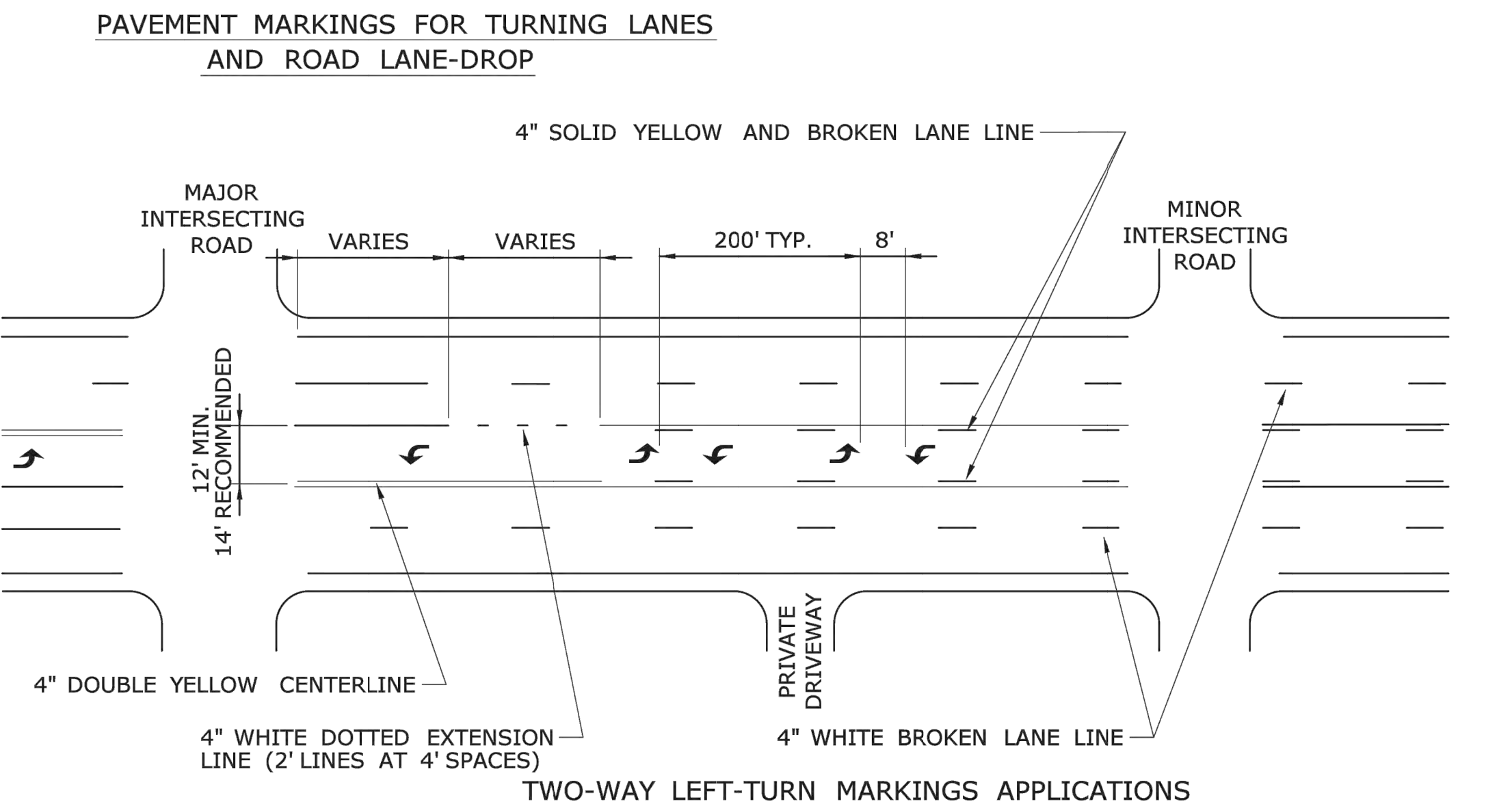
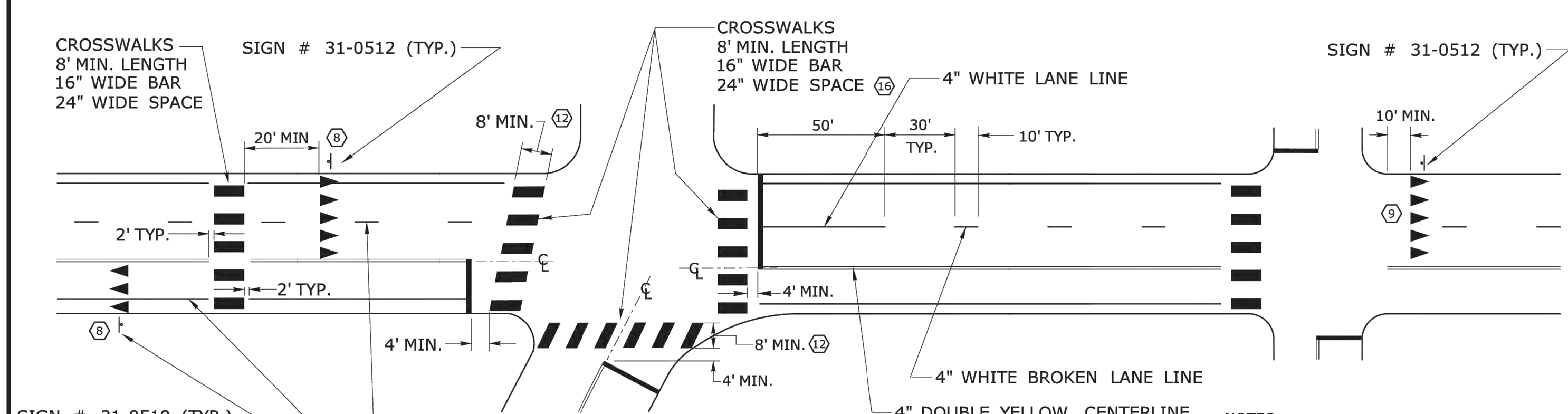
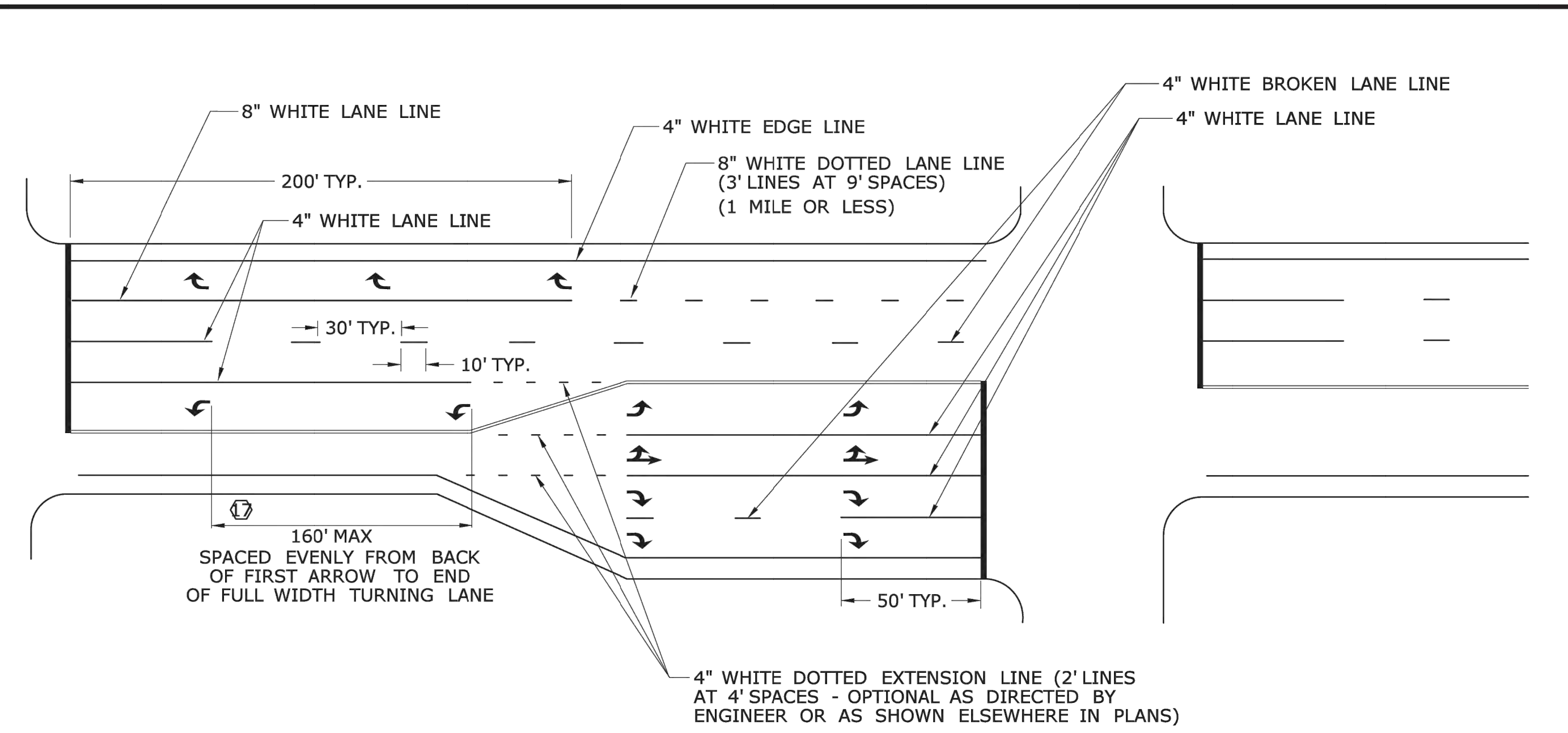
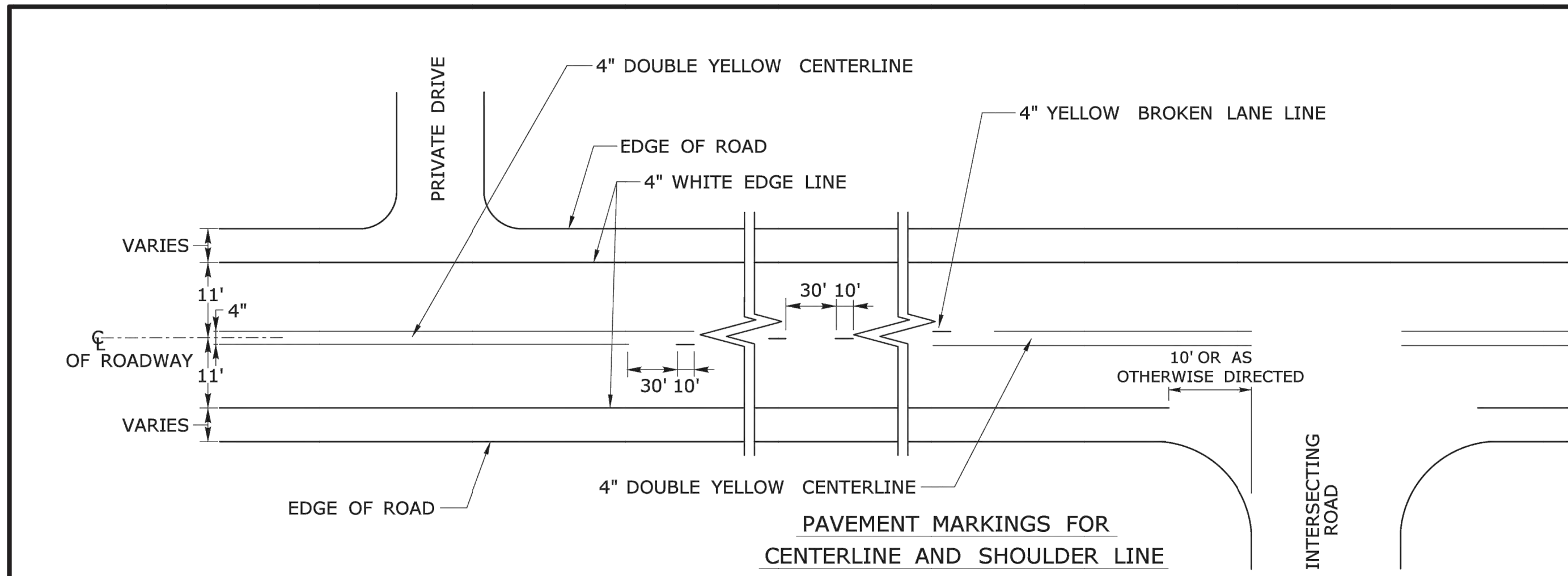
PIPE, PIPE-ARCH, OR DRAINAGE STRUCTURE	TRENCH WIDTH
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN LESS THAN 30"	2' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN GREATER THAN OR EQUAL TO 30"	3' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH FABRICATED FROM STRUCTURAL PLATES	4' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
DRAINAGE STRUCTURES	2' BEYOND ALL EXTERIOR OR FOUNDATION WALLS

**CROSS CULVERT
PIPE TRENCH DETAIL**

FILE LOCATION: P:\CTDOT\10188 - TOWN OF LITCHFIELD\10188-001 - BYRNES AVENUE DRAINAGE - DNR\02-CAD - FILE\02\CAD\DWG\10188-001 PROJECT DWG - 2022.08.16. 8:35 AM

NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY:  Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:24:13-04'00'	APPROVED BY:  Digitally signed by Calabrese, Michael Date: 2022.11.09 13:47:30-05'00'	STATE OF CONNECTICUT  DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: DRAINAGE TRENCH EXCAVATION	STANDARD SHEET NO.: HW-286_01
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PLOTTED DATE: 9/21/2022



- NOTES:**
STOP BARS AND YIELD LINES
- STOP BARS AND YIELD LINES SHALL BE WHITE.
 - STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
 - STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY. TO
 - IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
 - THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP SIGN SHOULD BE PLACED AT THE STOPPING POINT.
 - FOR STOP BARS AT RAMP SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMP".
 - FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
 - MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
 - WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.
 - FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
 - THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.
- CROSSWALKS**
- CROSSWALK MARKINGS SHALL BE WHITE.
 - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO C AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
 - BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
 - ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
 - DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
 - 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.
- PAVEMENT MARKINGS FOR TURNING LANES**
- INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE				SUBMITTED BY: Mark F. Makuch, P.E. 2018.08.17 09:10:18-04'00"		CTDOT STANDARD SHEET		STANDARD SHEET TITLE: PAVEMENT MARKINGS FOR NON FREEWAYS		STANDARD SHEET NO.: TR-1210_08	
1 8-2018 REVISED YIELD LINE SIGNAGE AND NOTES.		Plotted Date: 8/10/2018		Filename: TR-1210_08.DGN Model: TR-1210_05		APPROVED BY: Mark F. Carlinio, P.E. 2018.08.21 07:49:18-04'00"		OFFICE OF ENGINEERING					
REV.	DATE	REVISION DESCRIPTION											

FILE LOCATION: P:\CTDOT\10188 - TOWN OF LITCHFIELD\10188-051 - SPRINGS AVENUE DRAINAGE - DN802-CAD - FILE\BICAL\DWG\10188-001 PROJECT DWG - 2025.08.16 10:35 AM

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																											
<p>COPY & BORDER - WHITE BACKGROUND - GREEN</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16.0</td><td>48</td><td>51-6147</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	51-6147	2	<p>COPY & BORDER - WHITE BACKGROUND - GREEN</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>8.0</td><td>48x24</td><td>80-9612</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48x24	80-9612	2	<p>VARIABLE MILEAGE</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>90.0</td><td>120x108</td><td>80-9728</td><td></td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	90.0	120x108	80-9728		<p>VARIABLE ARROW</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>2.0</td><td>24x12</td><td>80-9707</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24x12	80-9707	1	<p>VARIABLE ARROW</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>5.0</td><td>30x24</td><td>80-9703</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.0	30x24	80-9703	1	<p>COPY & BORDER - WHITE BACKGROUND - RED</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>5.19</td><td>30</td><td>31-0552</td><td>1</td></tr> <tr><td>13.30</td><td>48</td><td>31-0557</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.19	30	31-0552	1	13.30	48	31-0557	2	<p>COPY & BORDER - BLACK BACKGROUND - WHITE</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>3.75</td><td>30x18</td><td>80-9076</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.75	30x18	80-9076	1	<p>VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>12.5</td><td>60x30</td><td>80-9077</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.5	60x30	80-9077	2	<p>AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS</p> <table border="1"> <tr><td>9.0</td><td>36</td><td>80-9432L</td><td>1</td></tr> <tr><td>9.0</td><td>36</td><td>80-9431R</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9451L</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9451R</td><td>2</td></tr> </table>				9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9451L	2	16.0	48	80-9451R	2	<p>AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS</p> <table border="1"> <tr><td>9.0</td><td>36</td><td>80-9050</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9051</td><td>2</td></tr> </table>				9.0	36	80-9050	1	16.0	48	80-9051	2
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																
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NOTES:

- R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
- POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
- POSTS SHALL BE 4 LBS./FT.
- ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208.02.
- FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220.02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
- FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
- ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
- MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

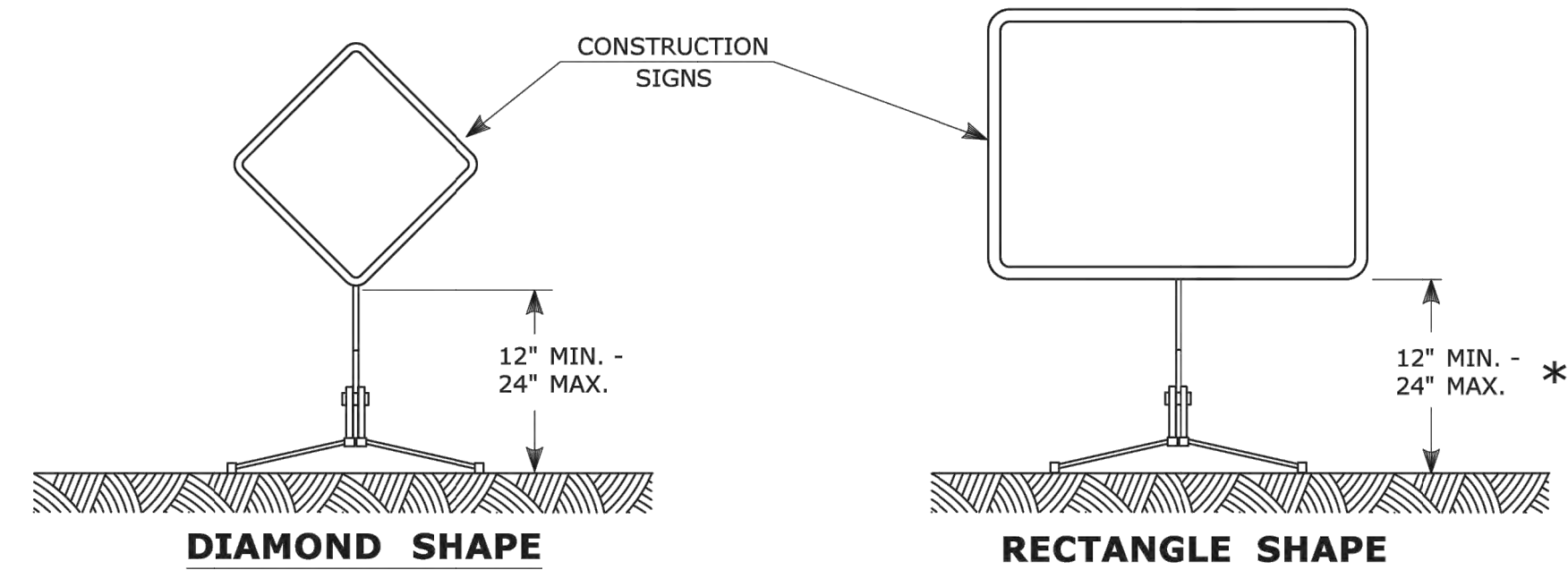
MATERIALS:

SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-1605, 80-9914, 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:

BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.
ALL OTHER SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

<p>6 8-2018 REVISED POST REQUIREMENTS AND SHEETING TYPE.</p> <p>5 8-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.</p> <p>4 6-2012 REVISED NOTE #1 TO REFERENCE "O.S.T.A."</p> <p>3 4-2012 REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.</p> <p>2 2-2011 MINOR REVISIONS.</p> <p>1 3-2010 REMOVED OBSOLETE SIGNS (50-5925, 50-5935).</p>	<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p> <p>Plotted Date: 8/10/2018</p>	<p>NOT TO SCALE</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>FILENAME: TR-1220.01.1.2018.dgn</p> <p>MODEL: TR-1220.01</p>	<p>SUBMITTED BY: Mark F. Makuch, P.E. 2018.08.17</p> <p>APPROVED BY: Mark F. Carino, P.E. 2018.08.21 07:49:34-04'00"</p>	<p>STANDARD SHEET TITLE: CTDOT STANDARD SHEET OFFICE OF ENGINEERING</p>	<p>STANDARD SHEET NO.: SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS TR-1220_01</p>
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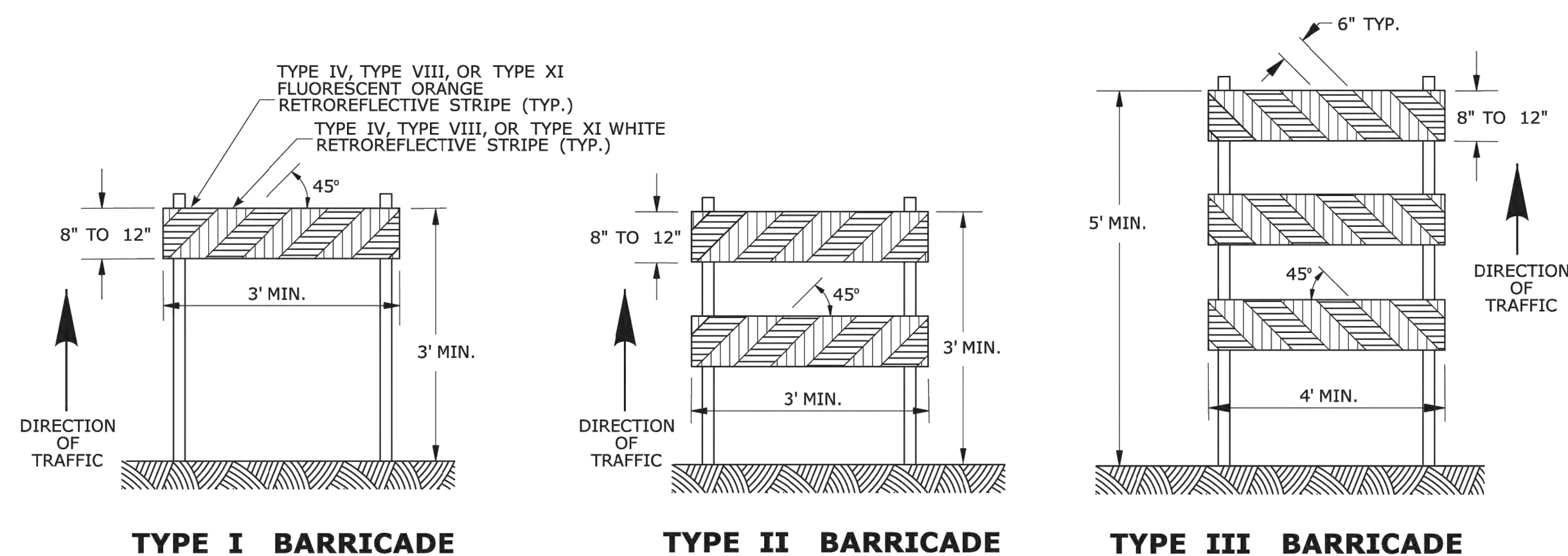


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

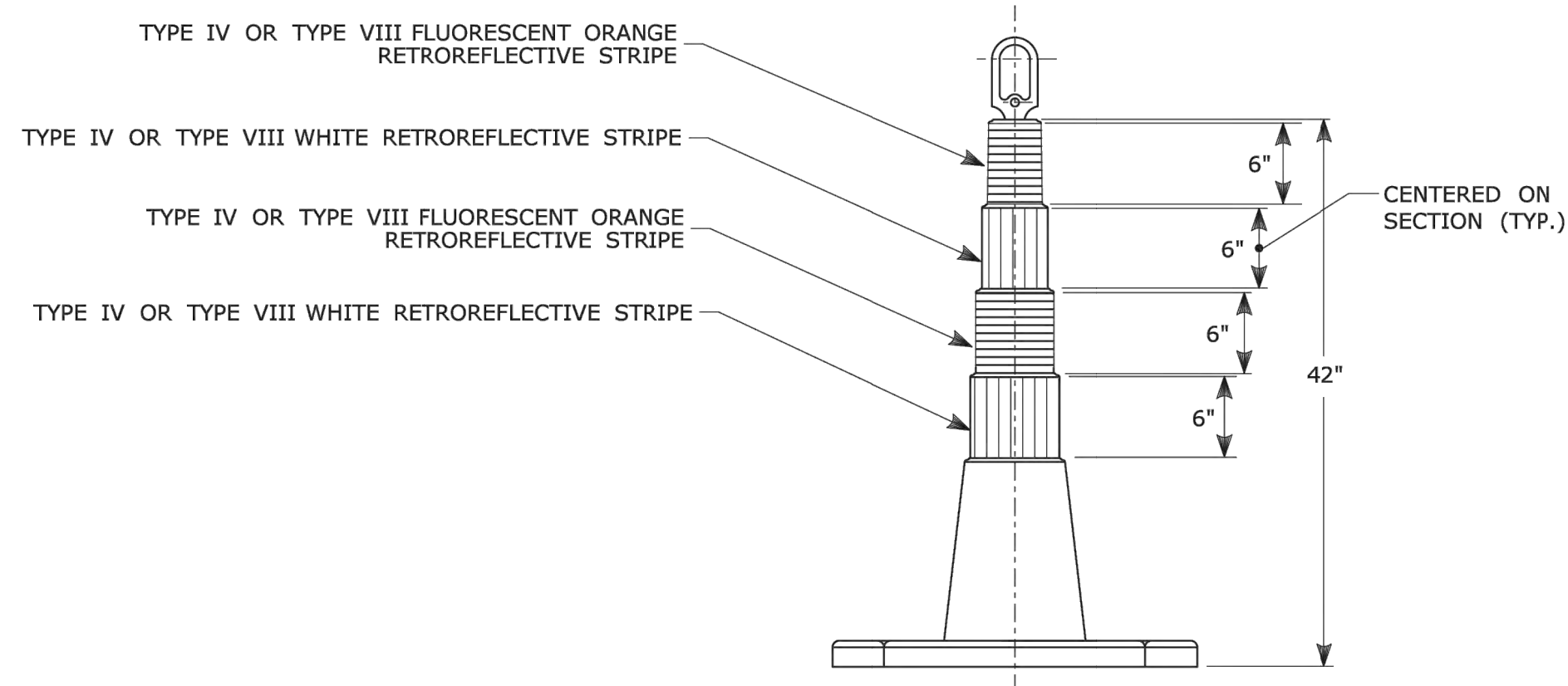
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



CONSTRUCTION BARRICADES

NOTES:

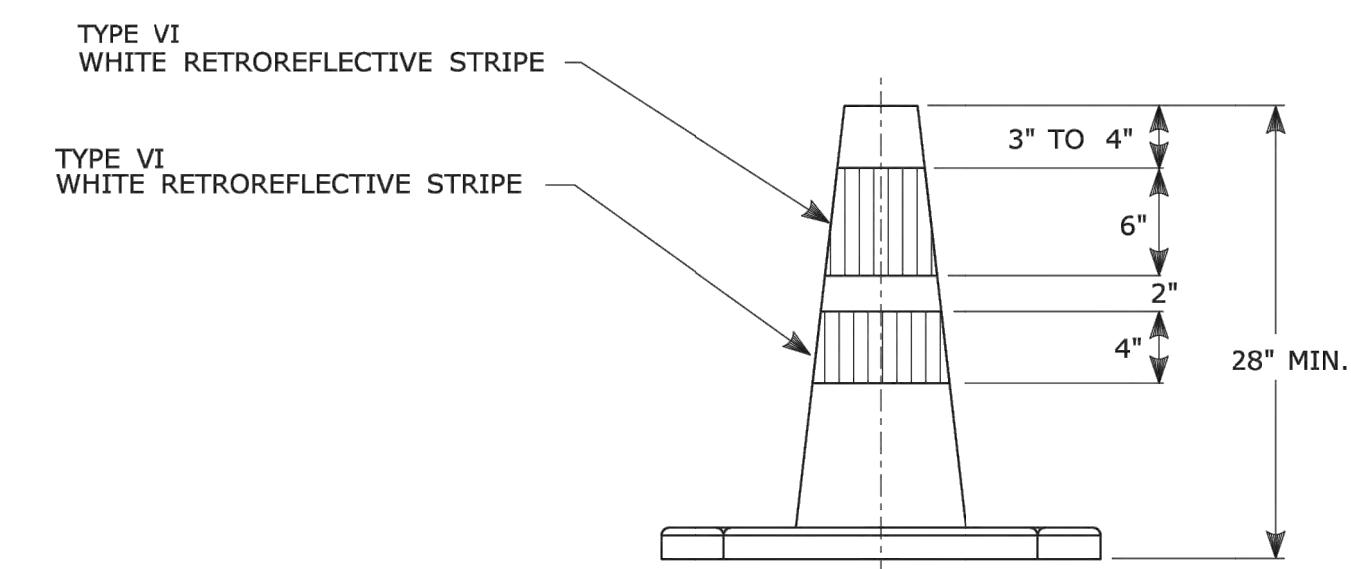
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



42" TRAFFIC CONE

NOTES:

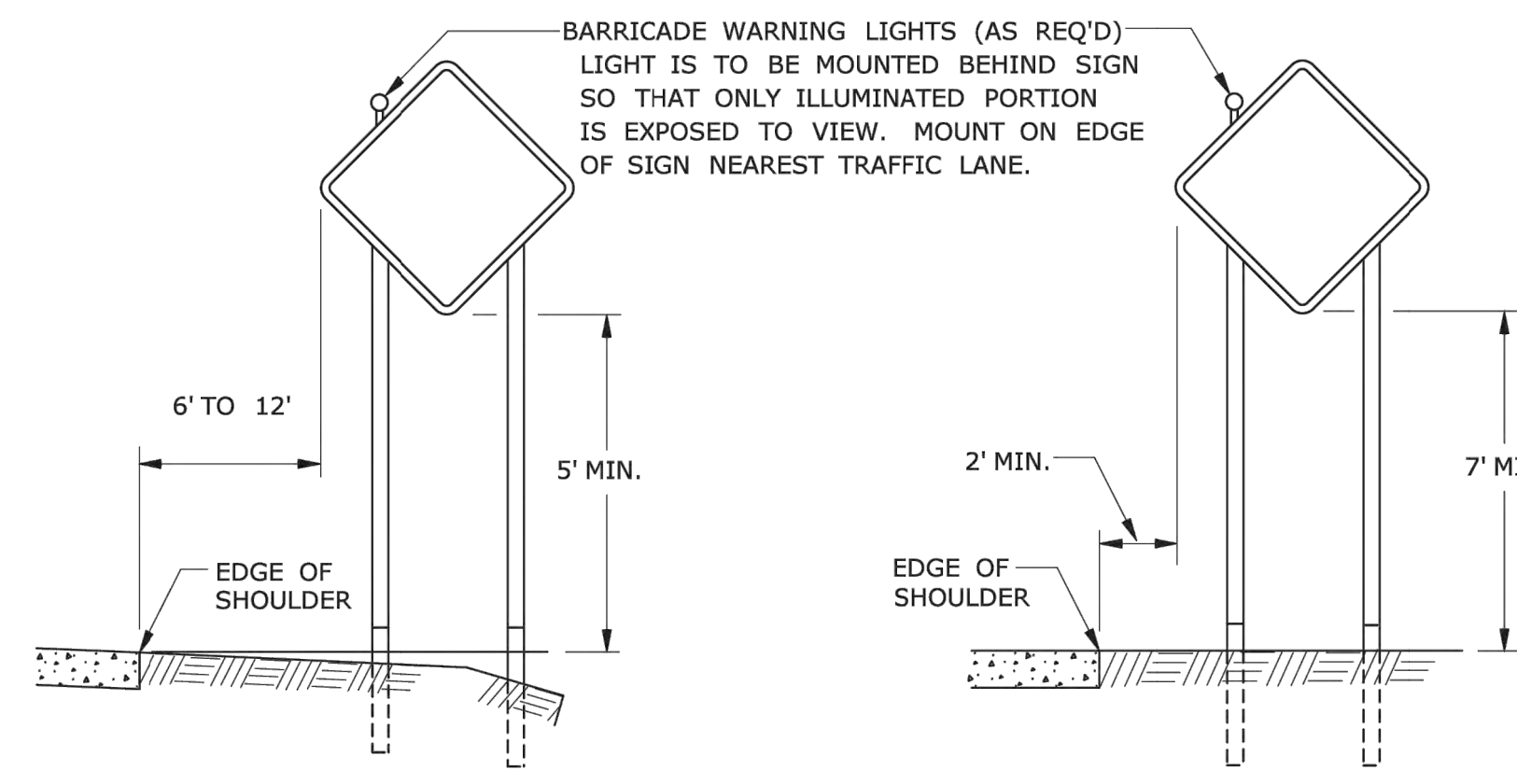
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



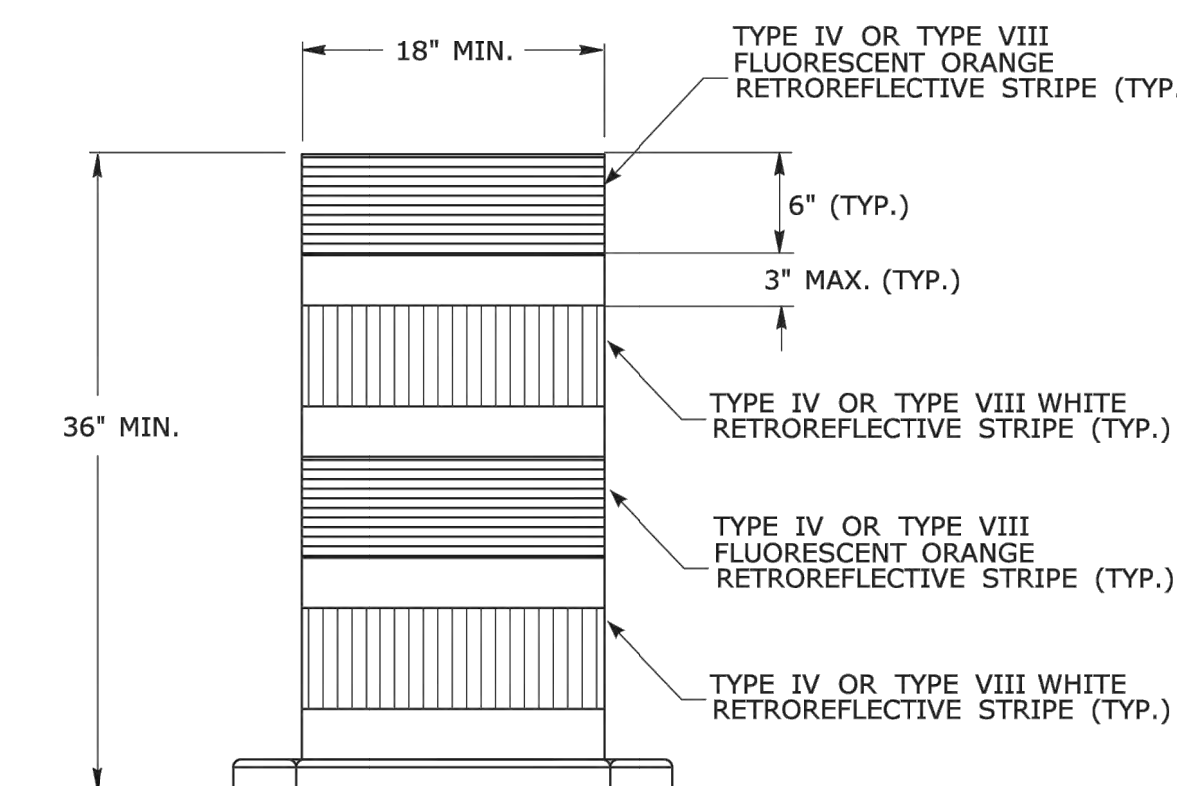
RURAL AREA

URBAN AREA

**PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION**

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES. REFER TO STANDARD SHEETS:
 TR-1208.01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."
 TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



**TRAFFIC DRUM
FRONT VIEW**

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 8/10/2018			STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SUBMITTED BY: Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00' APPROVED BY: Mark F. Carfino, P.E. 2018.08.21 07:49:51-04'00'		STANDARD SHEET TITLE: CTDOT STANDARD SHEET OFFICE OF ENGINEERING		STANDARD SHEET NO.: CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES TR-1220_02	
3	8-2018	UPDATED SHEETING TYPE AND COLOR.	NOT TO SCALE		Filename: TR-1220.02.3.2018.dgn Model: TR-1220.02					
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.								
1	2-2011	MINOR REVISIONS.								
REV.	DATE	REVISION DESCRIPTION								