

# Village of Long Grove

## Buffalo Creek Forest Preserve Trail Connection

**Client:**

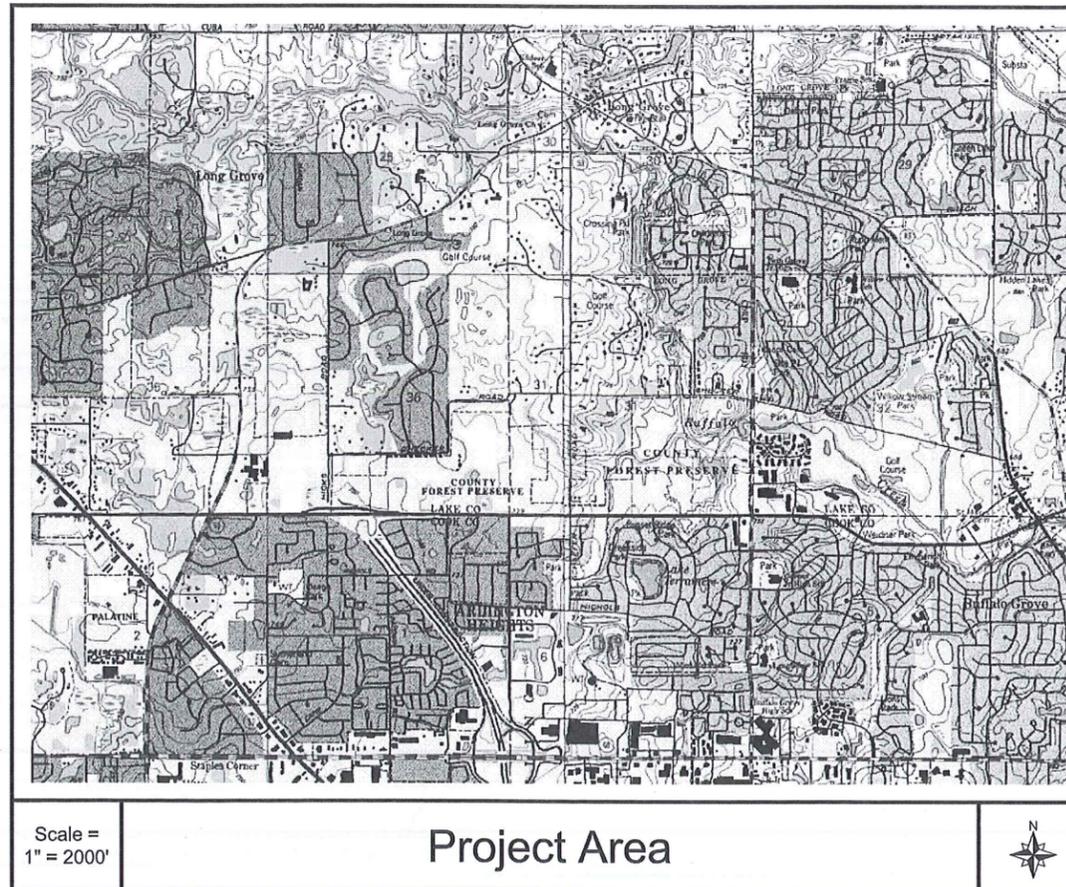
Village of Long Grove  
 David Lothspeich  
 3110 Old McHenry Road  
 Long Grove, IL 60017  
 Office (847) 634-9440

**Engineer:**

**Hey and Associates, Inc.**  
 26575 West Commerce Drive, Suite 601  
 Volo, Illinois 60073  
 Office (847) 740-0888  
 Fax (847) 740-2888

**Benchmark:**

Site Benchmark #1  
 Top of nut on top of flared end section on  
 East side of culvert on East side of  
 Schaeffer Road and North side of Checker  
 Road. Elev. = 733.03. NAVD 88.



**Sheet Index:** (Sheet # / Drawing # / Title)

1. C1.0 Cover Sheet
2. C1.1 General Notes
3. C1.2 Overall Plan and Benchmarks
4. C2.0 Existing Conditions
5. C3.0 Site Preparation and Removals Plan
6. C4.0 Layout, Materials and Planting Plan
7. C4.1 Layout, Materials and Planting Plan - Enlargement
8. C5.0 Grading and Drainage Plan
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10. C6.0 Cross Sections - 10+00 to 12+50
11. C6.1 Cross Sections - 13+00 to 16+50
12. C6.2 Cross Sections - 17+00 to 19+50
13. C7.0 SESC and Culvert Details
14. C7.1 Curb and Curb Ramp Details
15. C7.2 Drainage Structure Details
16. C7.3 Typ. Pavement Marking and Traffic Control Details
17. C7.4 Traffic Control Details

Call J.U.L.I.E. 1-800-892-0123 at least 48 hours before start of construction with the following:

County: Lake  
 City or Township: Long Grove  
 Tier, Range & Section: T43N, R11E, Sec. 31

The Information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of underground utilities as may be necessary to avoid damage thereto.

PROFESSIONAL SEAL



Signature: *[Handwritten Signature]*  
 Date: 11/10/15  
 License Expires: 11/30/15

This document shall not be considered a valid technical submittal unless it bears an original seal and signature.

Base Survey Information provided by:

TERRA Engineering, Ltd.

No.	Revision/Issue	Date

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 Engineering, Ecology and Landscape Architecture  
 26575 WEST COMMERCE DRIVE, SUITE 601  
 VOLO, ILLINOIS 60073  
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 VOLO@HEYASSOC.COM  
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 LICENSE NO. 184.002429

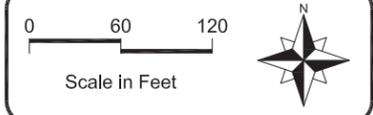
Village of Long Grove  
 Buffalo Creek Forest Preserve  
 Trail Connection

Cover Sheet

PROJECT NO:	14-0047	DRAWING NO:	<b>C1.0</b>
DESIGNED BY:	KGK	SHEET NO: 1 of 17	
DRAWN BY:	KGK		
CHECKED BY:	TLP		
APPROVED BY:			
ISSUE DATE:	01/09/2015		

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LEGEND		
Right-of-Way		
Section Line		
Existing 1 FT Topography (Surveyed)		
Existing 1 FT Topography (Lake County)		
Wetland Boundary (Surveyed)		
Existing Edge of Pavement		
Site Benchmark		
No.	Revision/Issue	Date

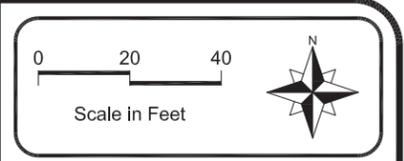
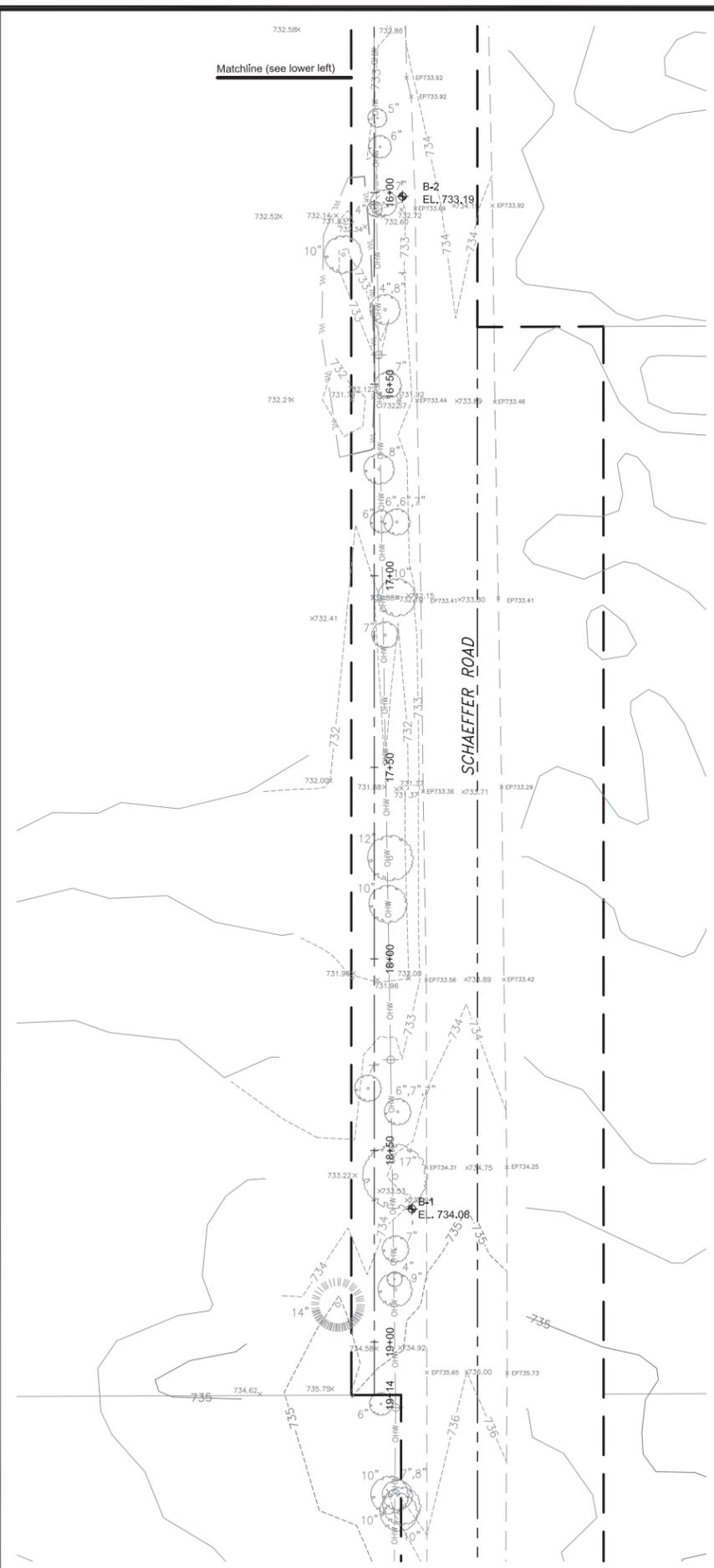
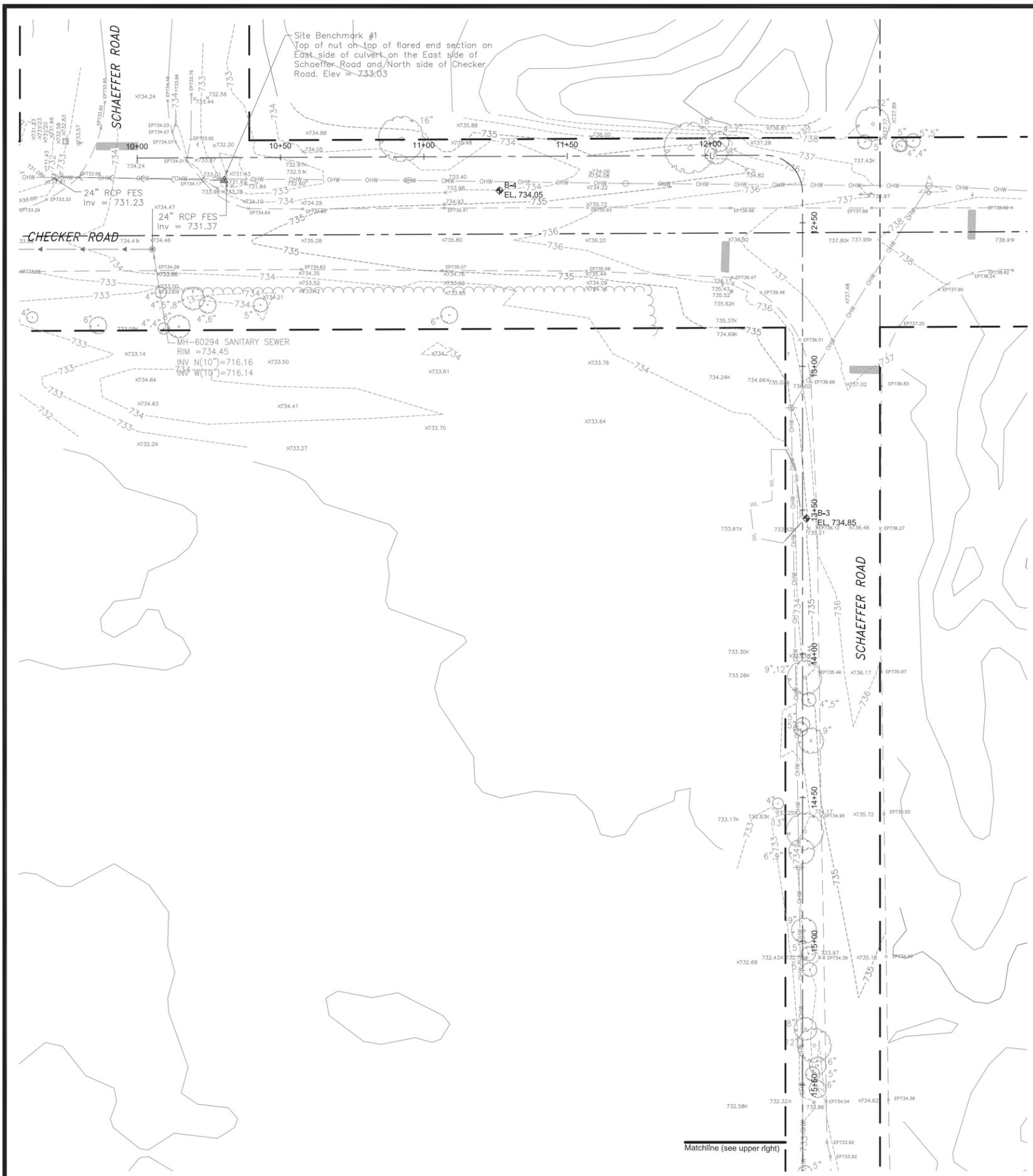
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Overall Plan

PROJECT NO:	14-0047	DRAWING NO:	<b>C1.2</b>
DESIGNED BY:	KGK		
DRAWN BY:	KGK		
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APPROVED BY:		SHEET NO:	
ISSUE DATE:	01/09/2015		3 OF 17

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LEGEND		
Right-of-Way		
Section Line		
Existing 1 FT Topography (Surveyed)		
Existing 1 FT Topography (Lake County)		
Wetland Boundary (Surveyed)		
Existing Edge of Pavement		
Existing Storm Sewer		
Existing Sanitary Sewer		
Existing Overhead Line		
Existing Tree and Brush Line		
<ul style="list-style-type: none"> <li> Site Benchmark</li> <li> Soil Boring</li> <li> Existing Sanitary Manhole</li> <li> Existing Power Pole</li> <li> Existing Power Pole w/Light</li> <li> Existing Deciduous Tree</li> <li> Existing Deciduous Tree</li> <li> Existing Spot Elevation</li> </ul>		
Proposed Path Centerline		
No.	Revision/Issue	Date

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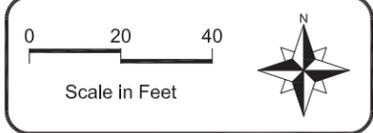
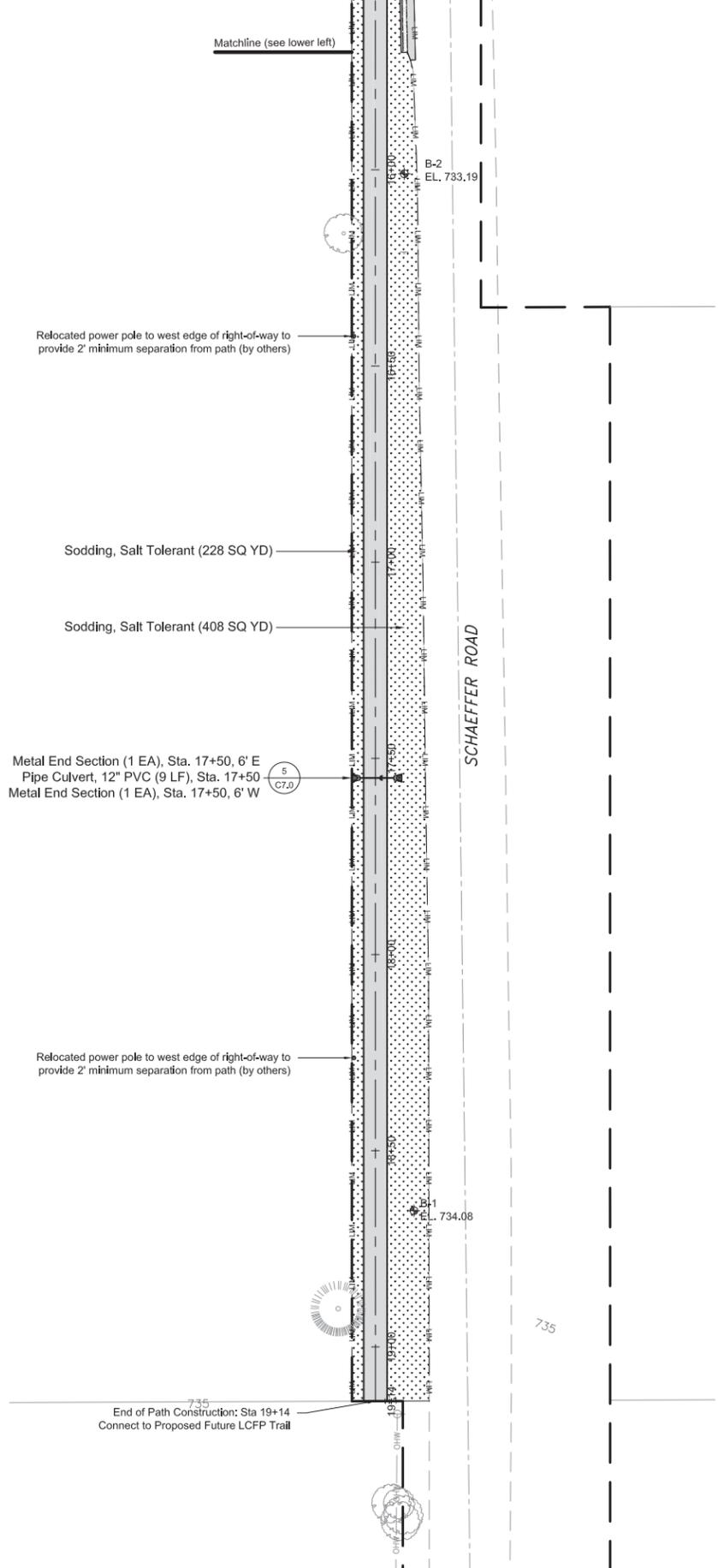
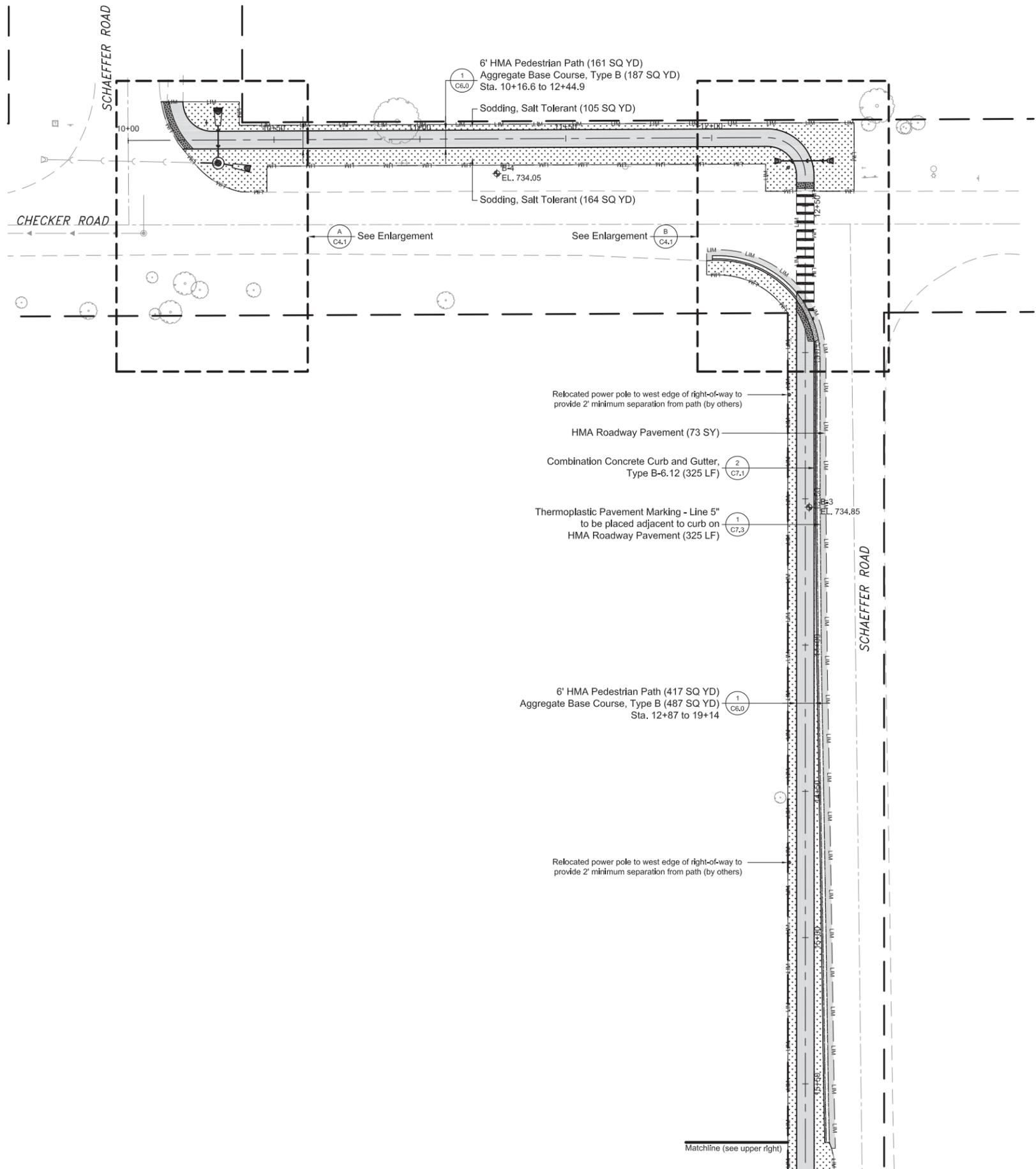
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 Buffalo Creek Forest Preserve  
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Existing Conditions

PROJECT NO:	14-0047	DRAWING NO:	<b>C2.0</b>
DESIGNED BY:	KGK		
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LEGEND		
Right-of-Way		
	Existing Edge of Pavement	
	Existing Storm Sewer	
	Existing Sanitary Sewer	
	Existing Overhead Line	
	Site Benchmark	
	Existing Sanitary Manhole	
	Existing Power Pole	
	Existing Power Pole w/Light	
	Existing Deciduous Tree	
	Existing Deciduous Tree	
	Detail Number	
	Drawing Number	
Proposed Path Centerline		
	Proposed Storm Sewer	
	Proposed Storm Manhole	
	Proposed FES	
Limits of Construction		
	Limits of Construction	
No.	Revision/Issue	Date

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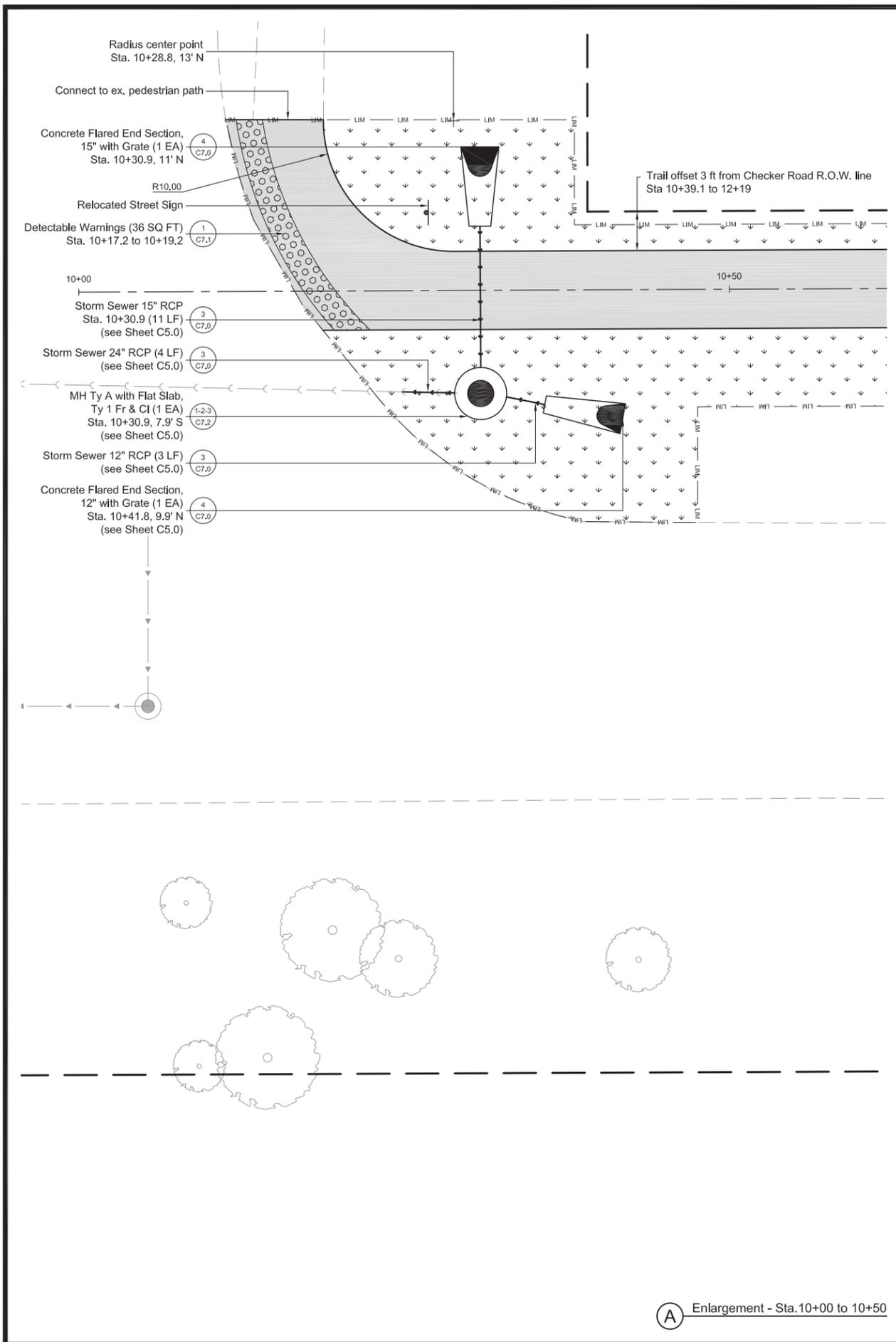
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Buffalo Creek Forest Preserve  
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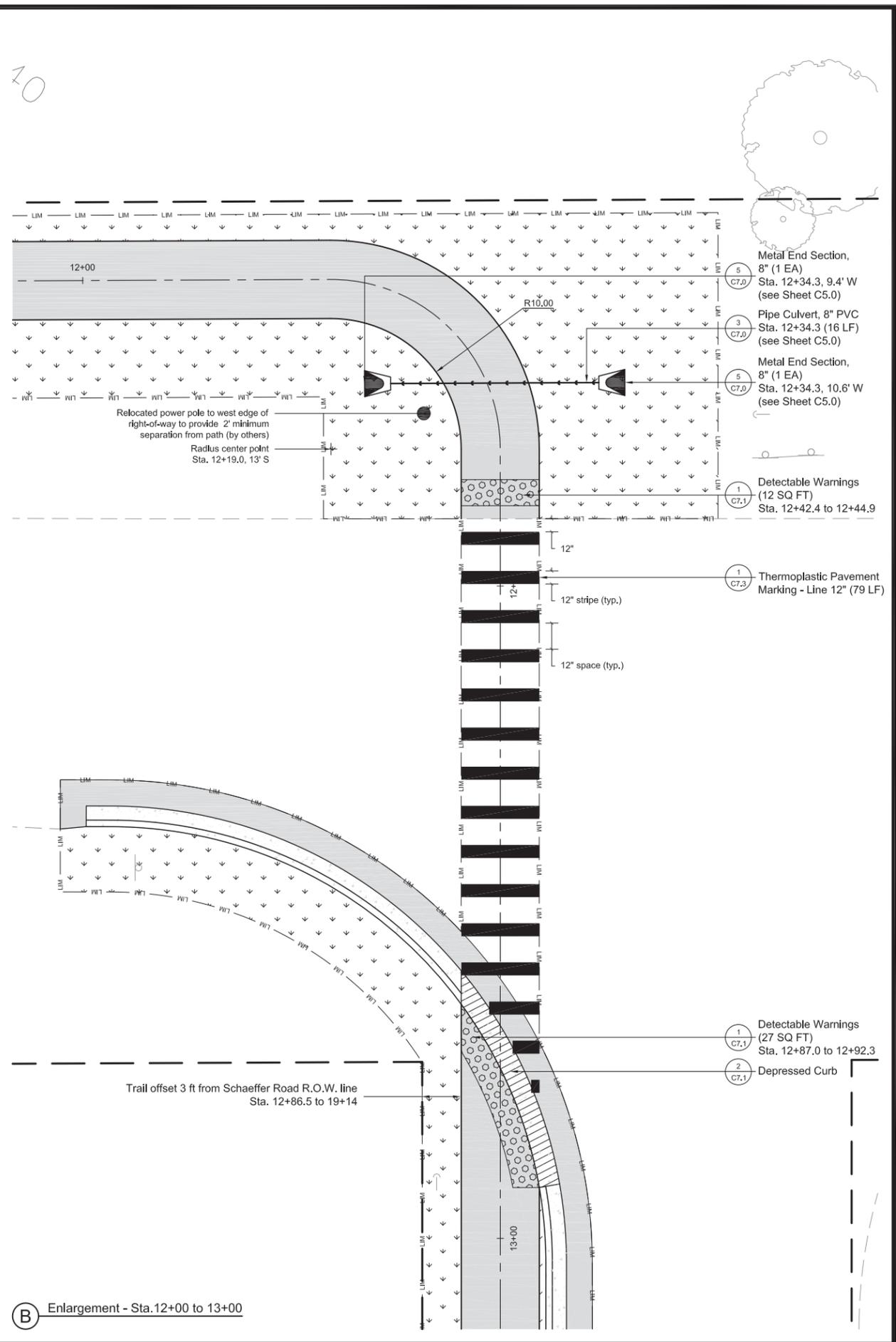
Layout, Materials  
and Planting Plan

PROJECT NO:	14-0047	DRAWING NO:	<b>C4.0</b>
DESIGNED BY:	KGK		
DRAWN BY:	KGK		
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APPROVED BY:		SHEET NO:	
ISSUE DATE:	01/09/2015		6 OF 17

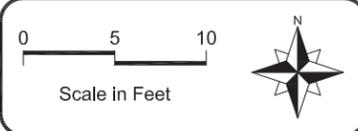
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**A** Enlargement - Sta. 10+00 to 10+50



**B** Enlargement - Sta. 12+00 to 13+00



**LEGEND**

**Right-of-Way**

- Existing Edge of Pavement
- Existing Storm Sewer
- Existing Sanitary Sewer
- Existing Overhead Line
- Site Benchmark
- Existing Sanitary Manhole
- Existing Power Pole
- Existing Power Pole w/Light
- Existing Deciduous Tree
- Existing Deciduous Tree
- Detail Number
- Drawing Number

**Proposed Path Centerline**

- Proposed Storm Sewer
- Proposed Storm Manhole
- Proposed FES
- Limits of Construction

No.	Revision/Issue	Date

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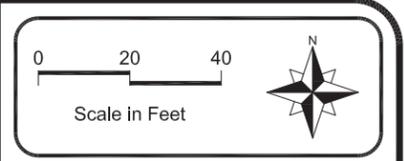
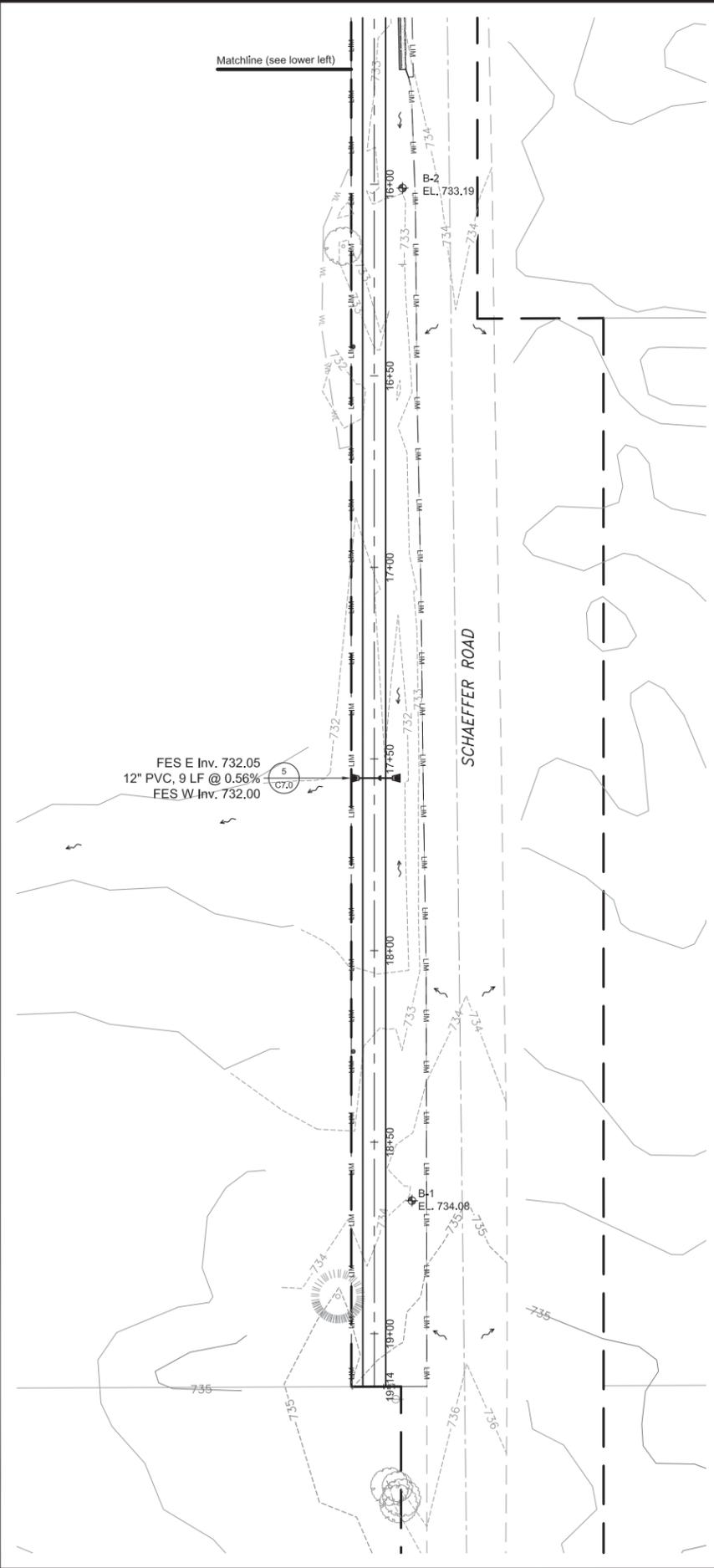
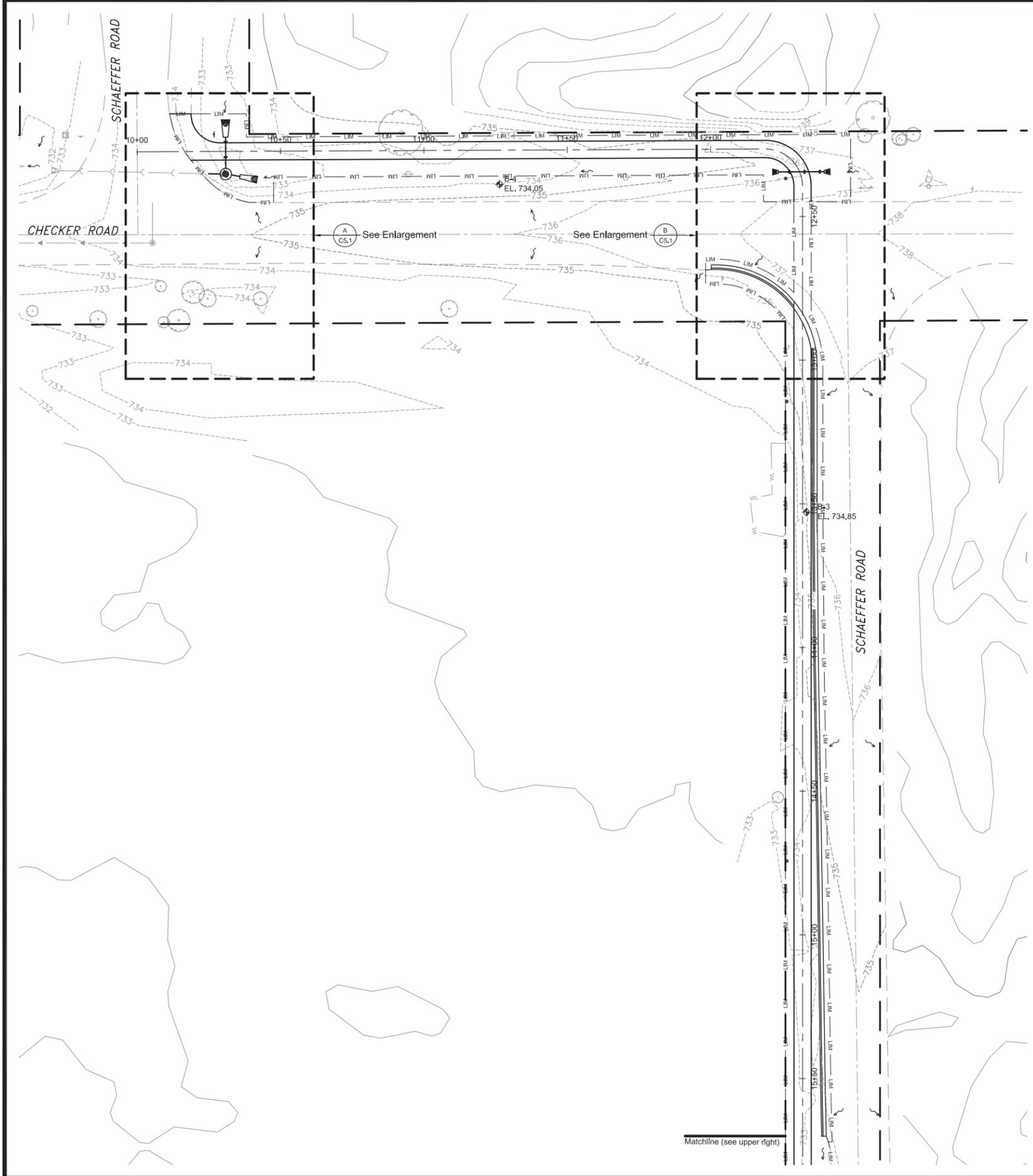
Village of Long Grove  
 Buffalo Creek Forest Preserve  
 Trail Connection

Layout, Materials  
 and Planting Plan  
 Enlargement

PROJECT NO:	14-0047	DRAWING NO:	<b>C4.1</b>
DESIGNED BY:	KGK	SHEET NO:	
DRAWN BY:	KGK	7 OF 17	
CHECKED BY:	TLP		
APPROVED BY:			
ISSUE DATE:	01/09/2015		

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**LEGEND**

Right-of-Way

Existing 1 FT Topography (Surveyed)

Existing 1 FT Topography (Lake County)

Wetland Boundary (Surveyed)

Existing Edge of Pavement

Existing Storm Sewer

Existing Sanitary Sewer

Site Benchmark

Existing Sanitary Manhole

Existing Power Pole

Existing Deciduous Tree

Existing Deciduous Tree

Detail Number

Drawing Number

Proposed Path Centerline

Proposed Topography

Proposed Storm Sewer

Proposed Storm Manhole

Proposed FES

Limits of Construction

No.	Revision/Issue	Date

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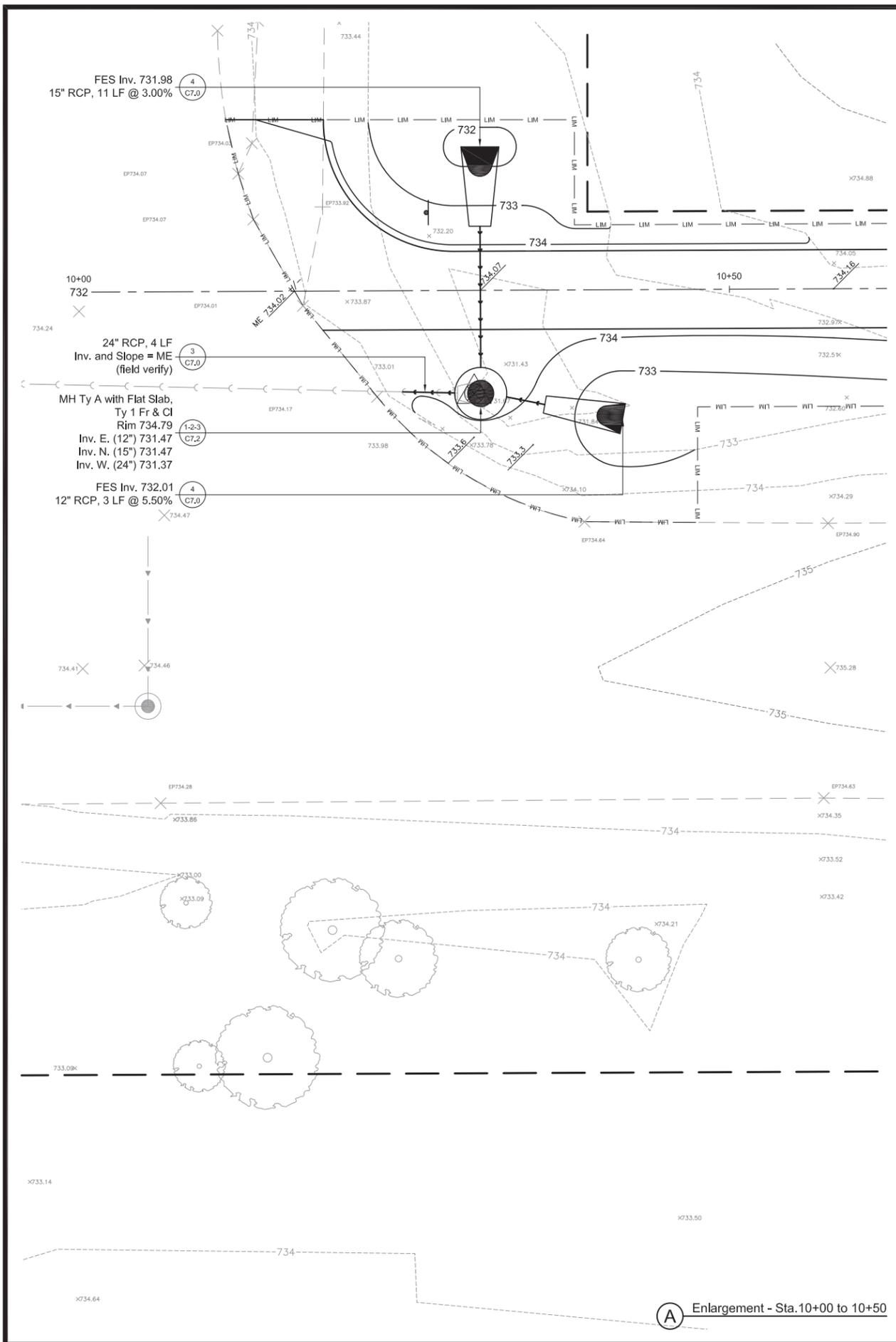
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 Buffalo Creek Forest Preserve  
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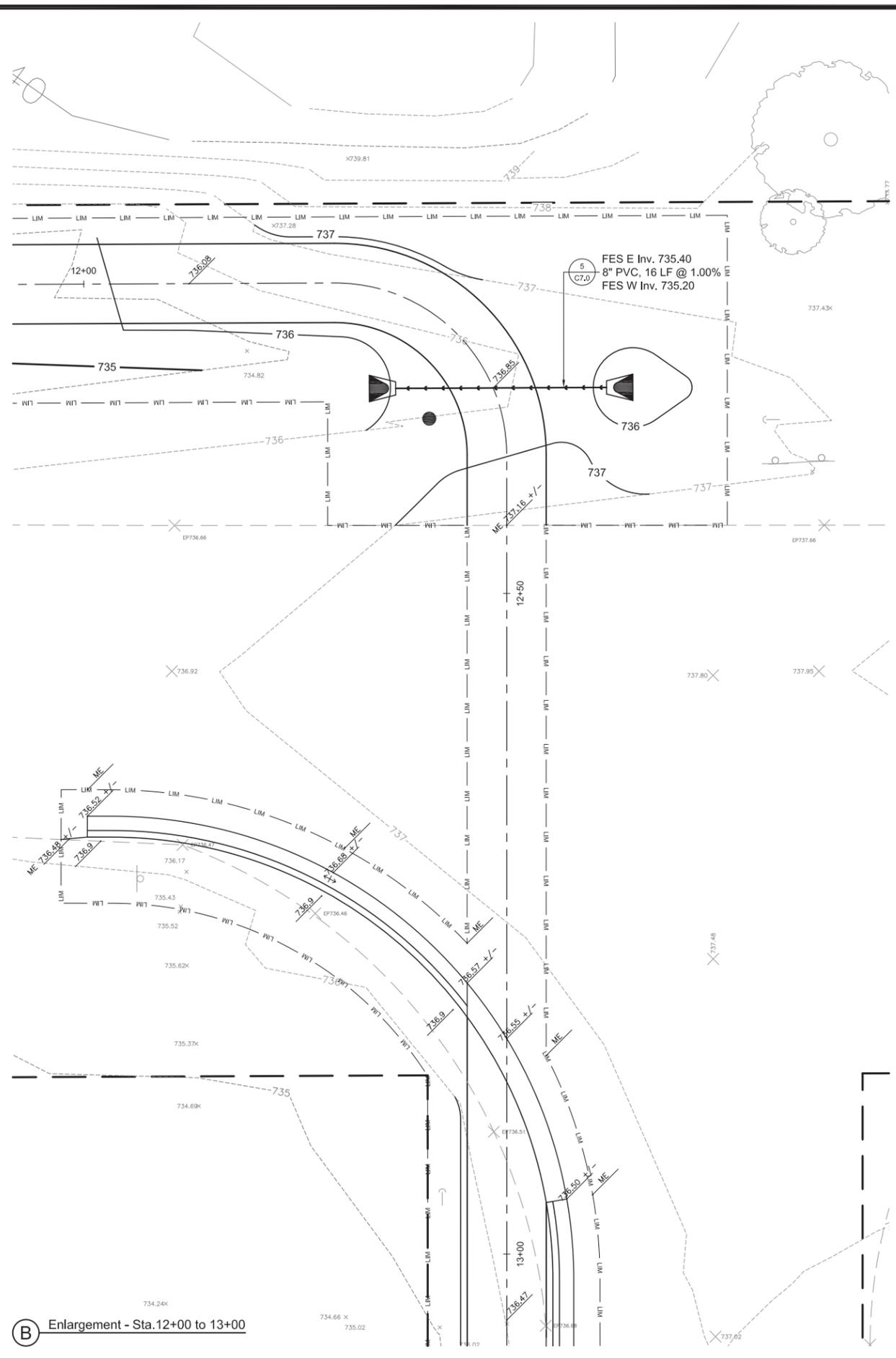
Grading and  
 Drainage Plan

PROJECT NO: 14-0047	DRAWING NO:
DESIGNED BY: KGK	<b>C5.0</b>
DRAWN BY: KGK	
CHECKED BY: TLP	SHEET NO:
APPROVED BY:	8 OF 17
ISSUE DATE: 01/09/2015	

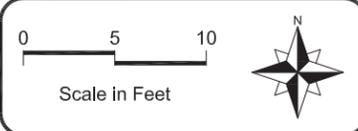
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**A** Enlargement - Sta. 10+00 to 10+50



**B** Enlargement - Sta. 12+00 to 13+00



LEGEND		
Right-of-Way		
Existing 1 FT Topography (Surveyed)		
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Proposed Path Centerline		
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Proposed Storm Sewer		
Proposed Storm Manhole		
Proposed FES		
Limits of Construction		
No.	Revision/Issue	Date

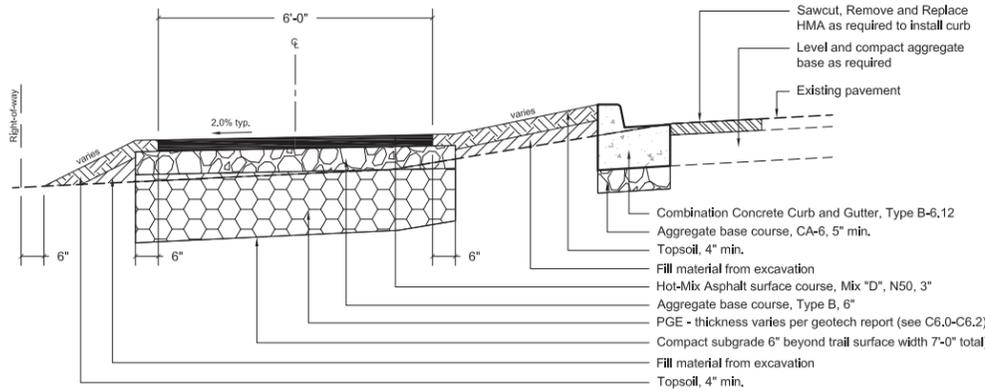
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Village of Long Grove  
 Buffalo Creek Forest Preserve  
 Trail Connection

Grading and  
 Drainage Plan  
 Enlargement

PROJECT NO:	14-0047	DRAWING NO:	<b>C5.1</b>
DESIGNED BY:	KGK	SHEET NO:	
DRAWN BY:	KGK	9 OF 17	
CHECKED BY:	TLP		
ISSUE DATE:	01/09/2015		

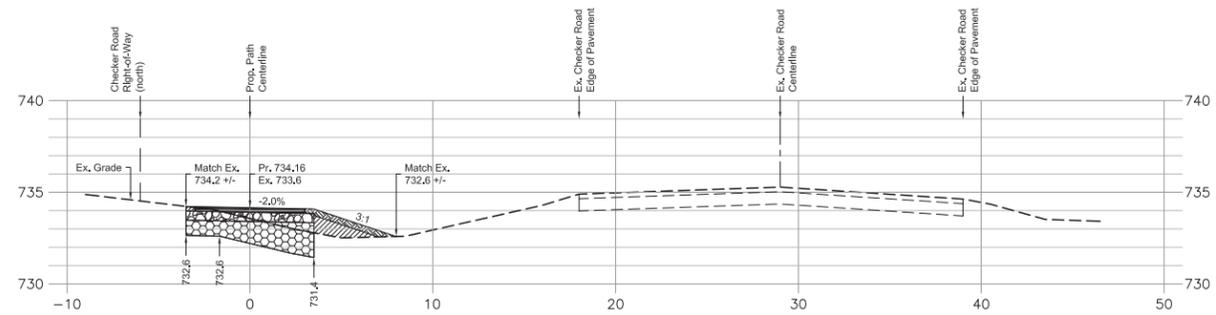
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1 Typical Path Cross Section  
1" = 2'

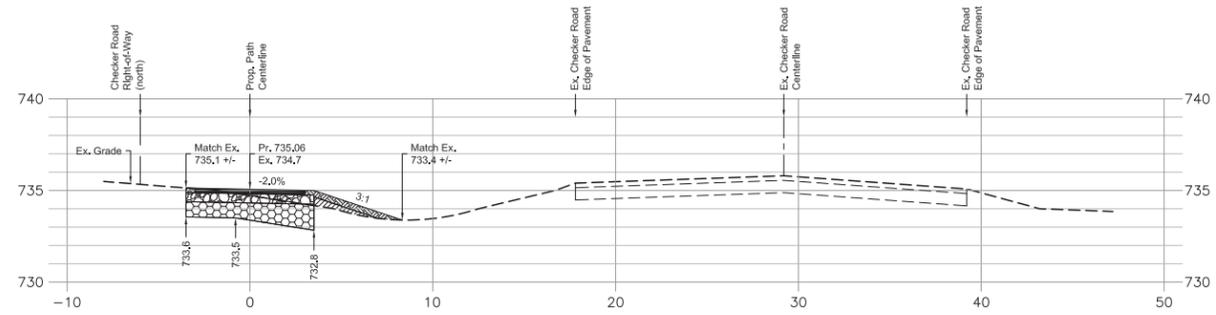
- Cut: 9.75 SQ FT
- ▨ Fill: 1.99 SQ FT
- ▩ Topsoil: 1.98 SQ FT
- ▧ HMA Surface Course (path): 1.50 SQ FT
- ▦ Aggregate Base Course: 3.50 SQ FT
- ▤ Porous Granular Embankment: 8.72 SQ FT

10+58



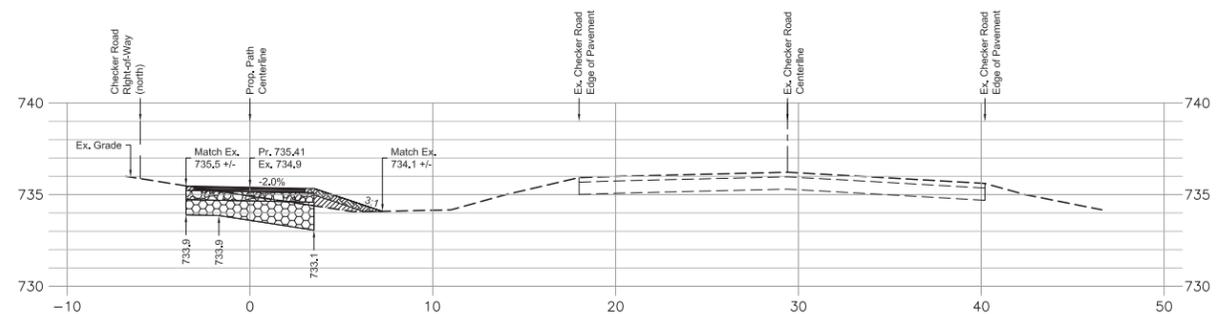
- Cut: 8.81 SQ FT
- ▨ Fill: 0.84 SQ FT
- ▩ Topsoil: 1.73 SQ FT
- ▧ HMA Surface Course (path): 1.50 SQ FT
- ▦ Aggregate Base Course: 3.50 SQ FT
- ▤ Porous Granular Embankment: 7.09 SQ FT

11+08



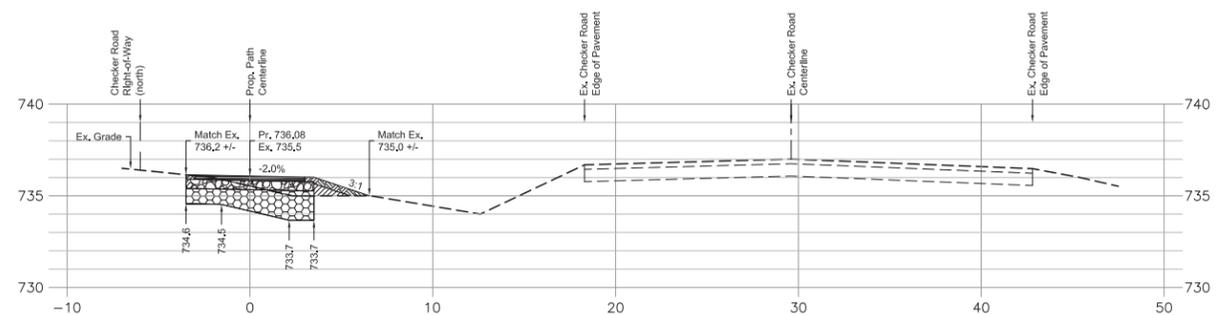
- Cut: 9.54 SQ FT
- ▨ Fill: 0.91 SQ FT
- ▩ Topsoil: 1.39 SQ FT
- ▧ HMA Surface Course (path): 1.50 SQ FT
- ▦ Aggregate Base Course: 3.50 SQ FT
- ▤ Porous Granular Embankment: 7.63 SQ FT

11+58



- Cut: 9.79 SQ FT
- ▨ Fill: 0.55 SQ FT
- ▩ Topsoil: 1.13 SQ FT
- ▧ HMA Surface Course (path): 1.50 SQ FT
- ▦ Aggregate Base Course: 3.50 SQ FT
- ▤ Porous Granular Embankment: 8.34 SQ FT

12+08



LEGEND

No.	Revision/Issue	Date
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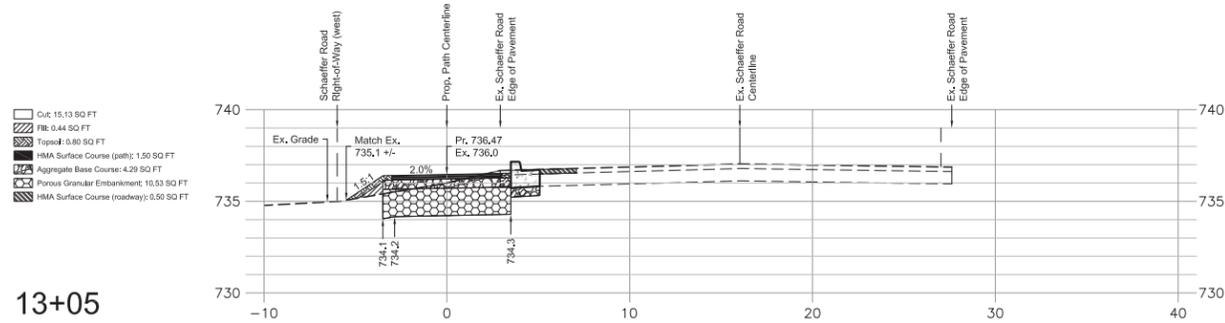
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Engineering, Ecology and Landscape Architecture  
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LICENSE NO. 184.002429

Village of Long Grove  
Buffalo Creek Forest Preserve  
Trail Connection

Proposed Pedestrian Path  
Cross Sections  
10+00 to 12+50

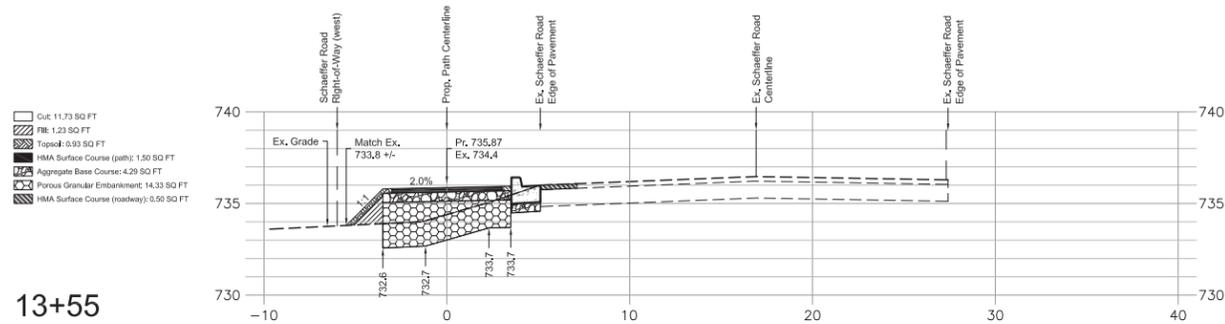
PROJECT NO:	14-0047	DRAWING NO:	<b>C6.0</b>
DESIGNED BY:	KGK	SHEET NO:	
DRAWN BY:	KGK	10 OF 17	
CHECKED BY:	TLP		
APPROVED BY:			
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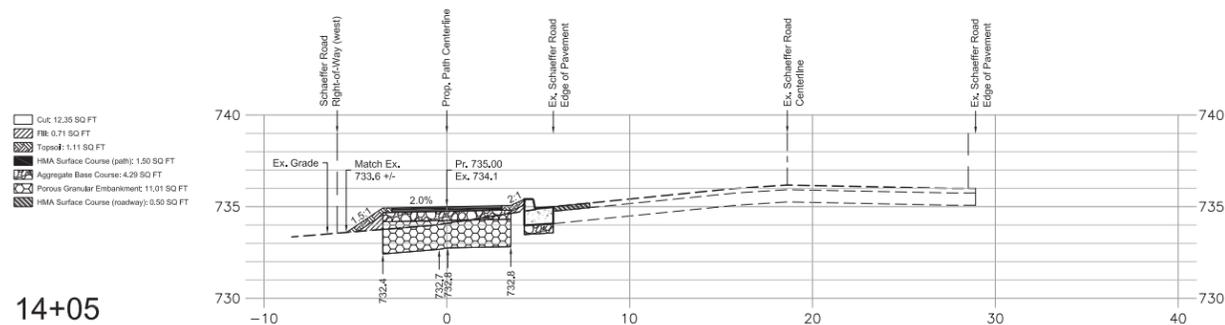


13+05

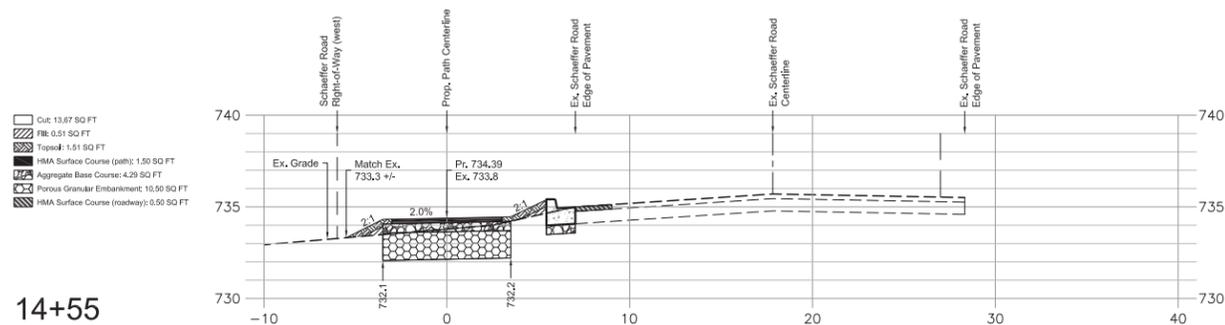
Note change of orientation for cross sections 13+05 to 19+05



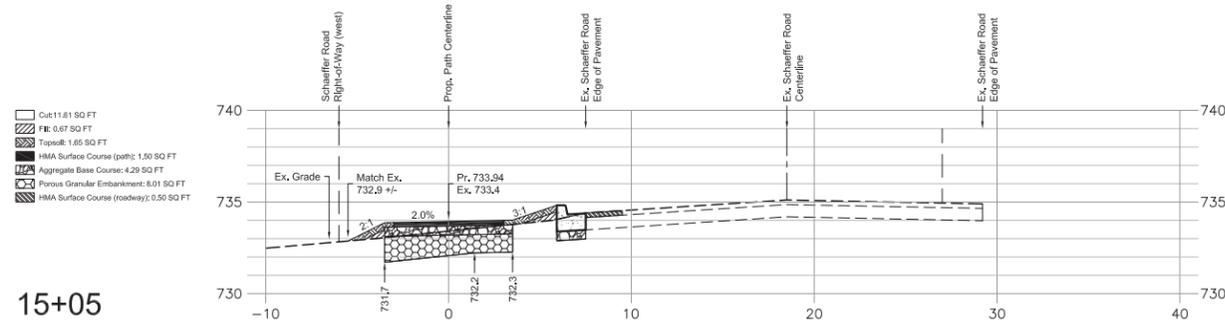
13+55



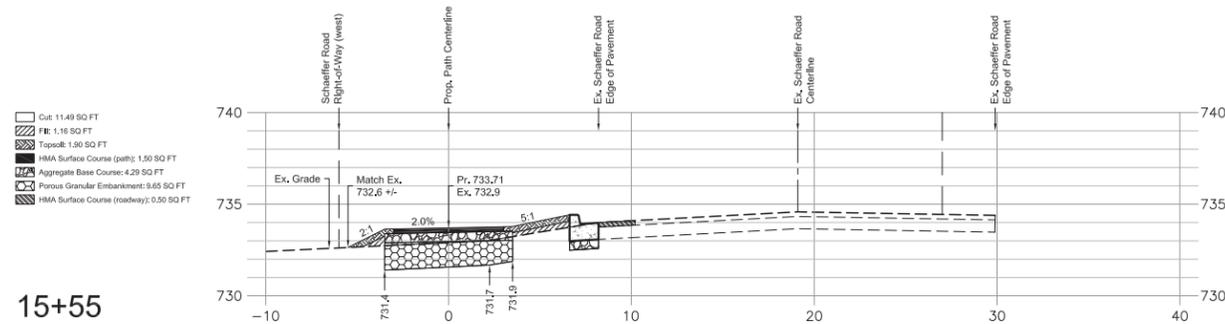
14+05



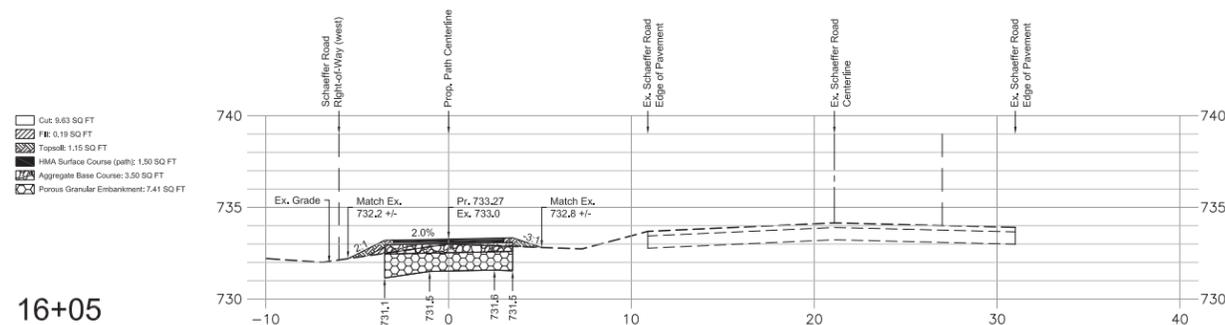
14+55



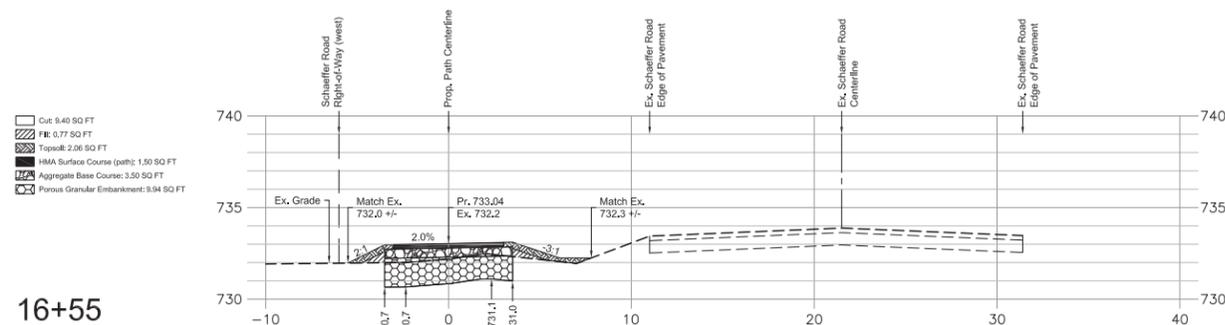
15+05



15+55



16+05



16+55



Scale in Feet

LEGEND

No.	Revision/Issue	Date
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Village of Long Grove  
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 Trail Connection

Proposed Pedestrian Path  
 Cross Sections  
 13+00 to 16+50

PROJECT NO:	14-0047	DRAWING NO:	<b>C6.1</b>
DESIGNED BY:	KGK	SHEET NO:	
DRAWN BY:	KGK	11 OF 17	
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APPROVED BY:			
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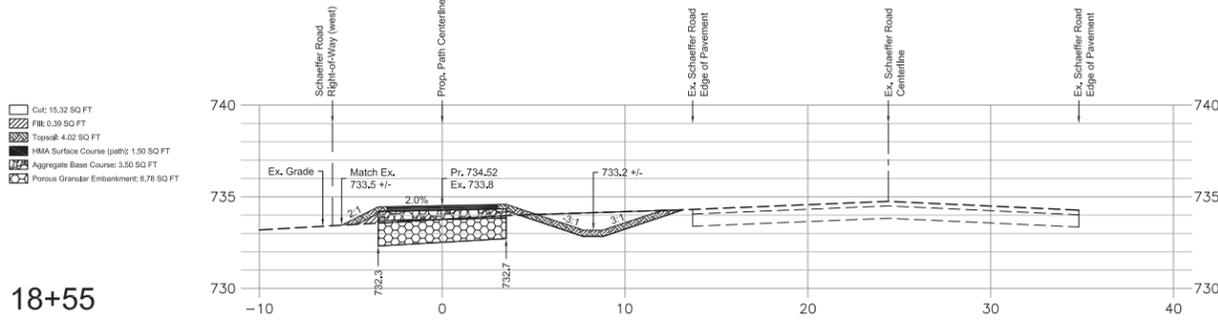
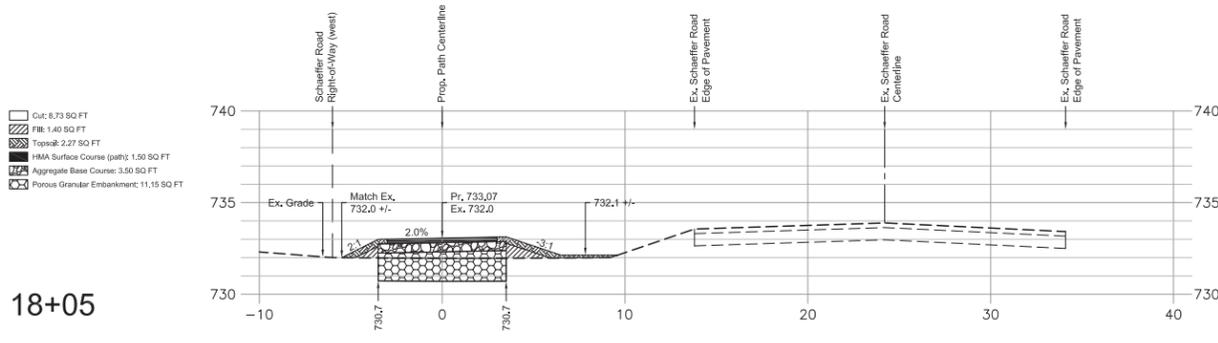
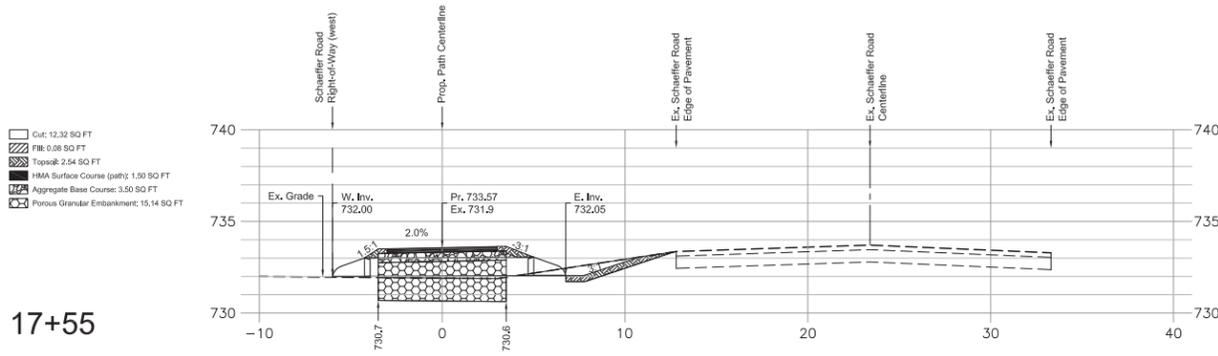
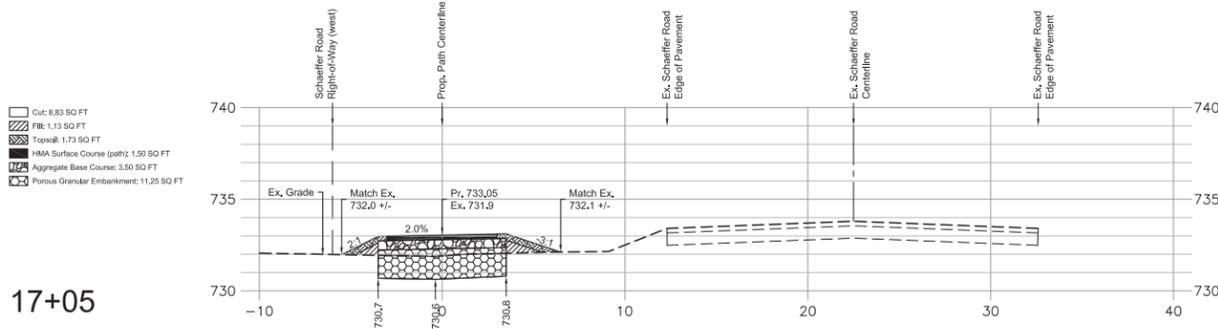
17+05

17+55

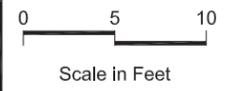
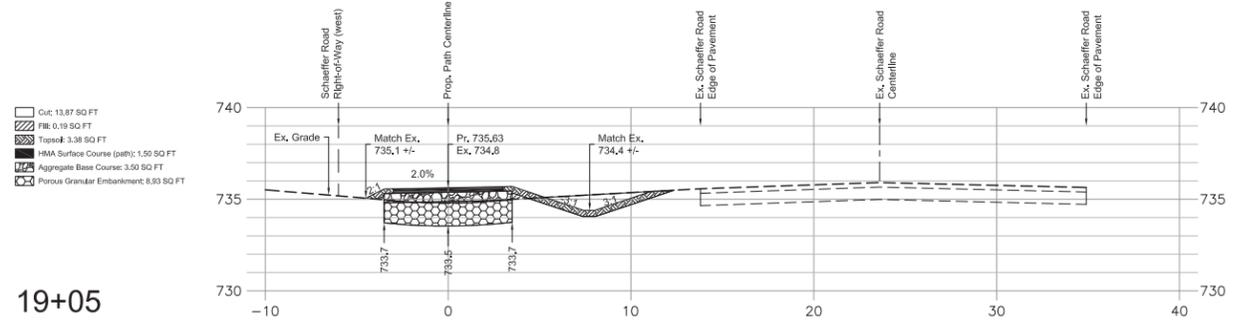
17+55

18+05

18+55



19+05



LEGEND

No.	Revision/Issue	Date

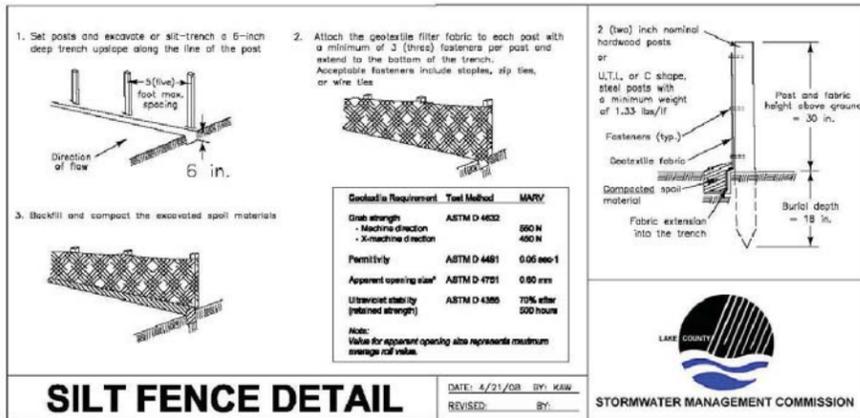
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Proposed Pedestrian Path  
 Cross Sections  
 17+00 to 19+50

PROJECT NO:	14-0047	DRAWING NO:	<b>C6.2</b>
DESIGNED BY:	KGK	SHEET NO:	
DRAWN BY:	KGK	12 OF 17	
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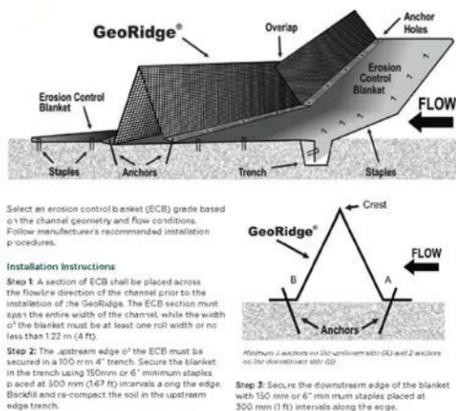
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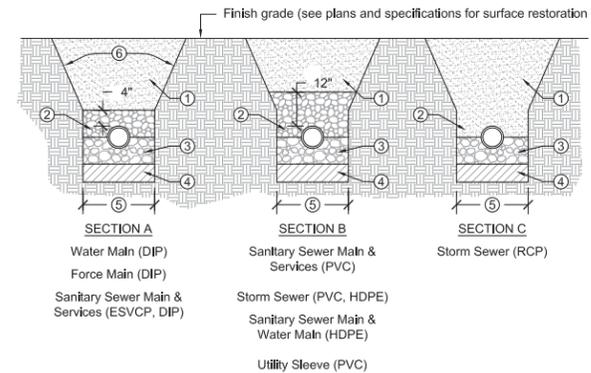
**LCSMC SEDIMENTATION AND EROSION CONTROL NOTES**

- Soil disturbance shall be conducted in such a manner as to minimize erosion. Soil stabilization measures shall consider the time of year, site conditions and the use of temporary or permanent measures.
- Soil erosion and sediment control features shall be constructed prior to the commencement of hydrologic disturbance of upland areas.
- Disturbed areas shall be stabilized with temporary or permanent measures within 14 calendar days of the end of active hydrologic disturbance, or redistribution.
- Areas or embankments having slopes greater than or equal to 3H:1V, and approved by the enforcement officer, shall be stabilized with sod, mat or blanket in combination with seeding.
- Erosion control blanket shall be required on all interior detention basin side slopes between normal water level and high water level.
- All storm sewers that are or will be functioning during construction shall be protected, by an appropriate sediment control measure.
- All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary measures are no longer needed.
- All temporary and permanent erosion control measures must be maintained and repaired as needed. The property owner shall be ultimately responsible for maintenance and repair.
- A stabilized mat of aggregate underlain with filter cloth (or other appropriate measure) shall be located at any point where traffic will be entering or leaving a construction site or from a public right-of-way, street, alley or parking area. Any sediment or soil reaching an improved public right-of-way, street, alley or parking area shall be removed by scraping or street cleaning as accumulations warrant and transported to a controlled sediment disposal area.
- Soil stockpiles shall not be located in a flood prone area or a designated buffer protecting Waters of the United States or Isolated Waters of Lake County.
- If dewatering services are used, adjoining properties and discharge locations shall be protected from erosion. Discharges shall be routed through an effective sediment control measure (e.g. sediment trap, sediment basin, or other appropriate measure).
- The erosion control measures indicated on the plans are the minimum requirements. Additional measures may be required, as directed by the engineer or governing agency.

1 Silt Fence Installation Detail (Not to Scale)



2 Ditch Check Detail (Not to Scale)



- Trench backfill to subgrade and within 2 feet of proposed pavement, driveway, curb and gutter or sidewalk. Trench backfill materials shall be IDOT approved gradation:
  - FA 1, FA 2, FA 6 or FA 21
  - CA 6, CA 10 or CA 18
 Compacted to 90% of modified proctor density. In non-structural areas backfill with approved excavated materials.
- Initial backfill to depth as indicated. Material shall be IDOT approved gradation:
  - FA 6
  - CA 6, CA 7 or CA 11
- Pipe bedding shall be fractured granular material IDOT gradation CA-7 or CA-11 from 4 inches below horizontal center of pipe
- Unsuitable material to be removed where directed by the Engineer and replaced with compacted suitable material.
- Trench Width:
  - Pipe O.D. + 12 inches min. (for payment purposes)
  - Pipe I.D. + 18 inches max. (for payment purposes)
  - Or as noted in Standard Specifications for Water and Sewer Main Construction in Illinois
- Contractors shall comply with the latest OSHA standards including, but not limited to:
  - Sloping and benching trenching walls
  - Trench support and shoring systems
  - Shield systems and Hazardous atmospheres.

3 Typical Trench Detail (Not to Scale)

Scale bar measures 1" at full scale



**LEGEND**

No.	Revision/Issue	Date
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 LICENSE NO. 184.002429

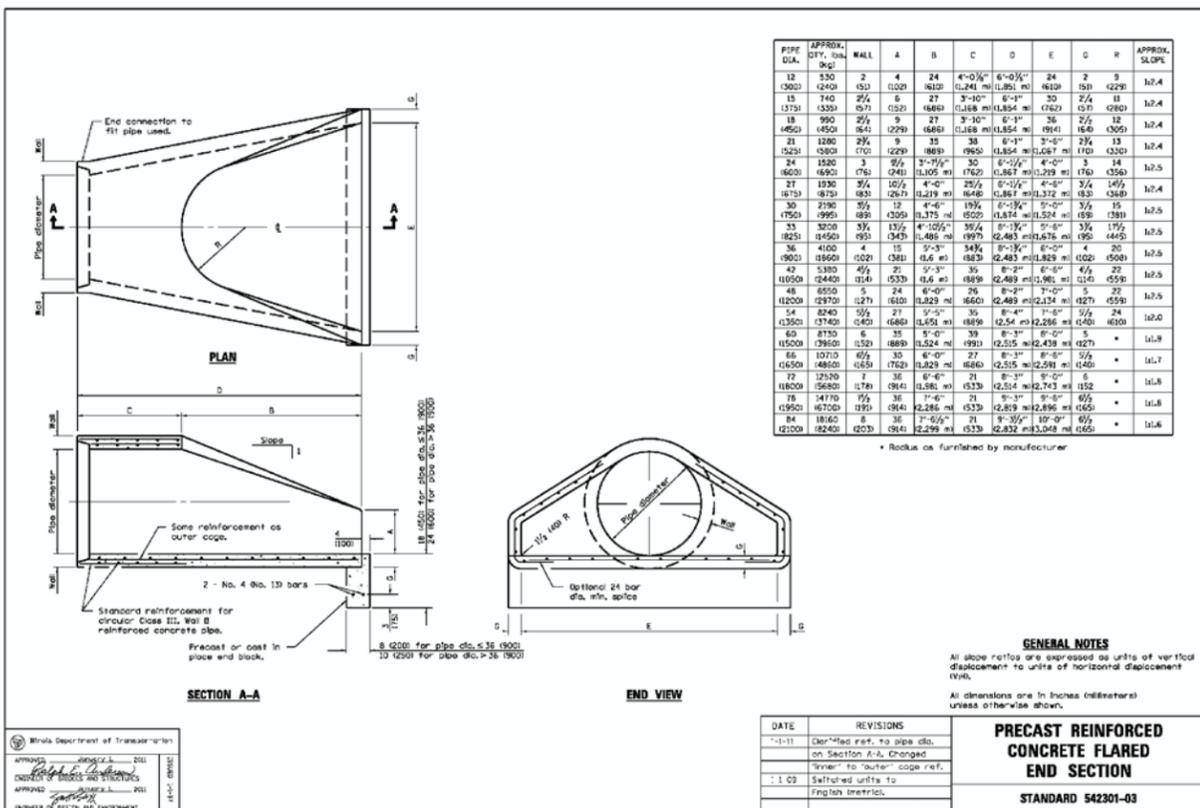
**Village of Long Grove**

Buffalo Creek Forest Preserve  
 Trail Connection

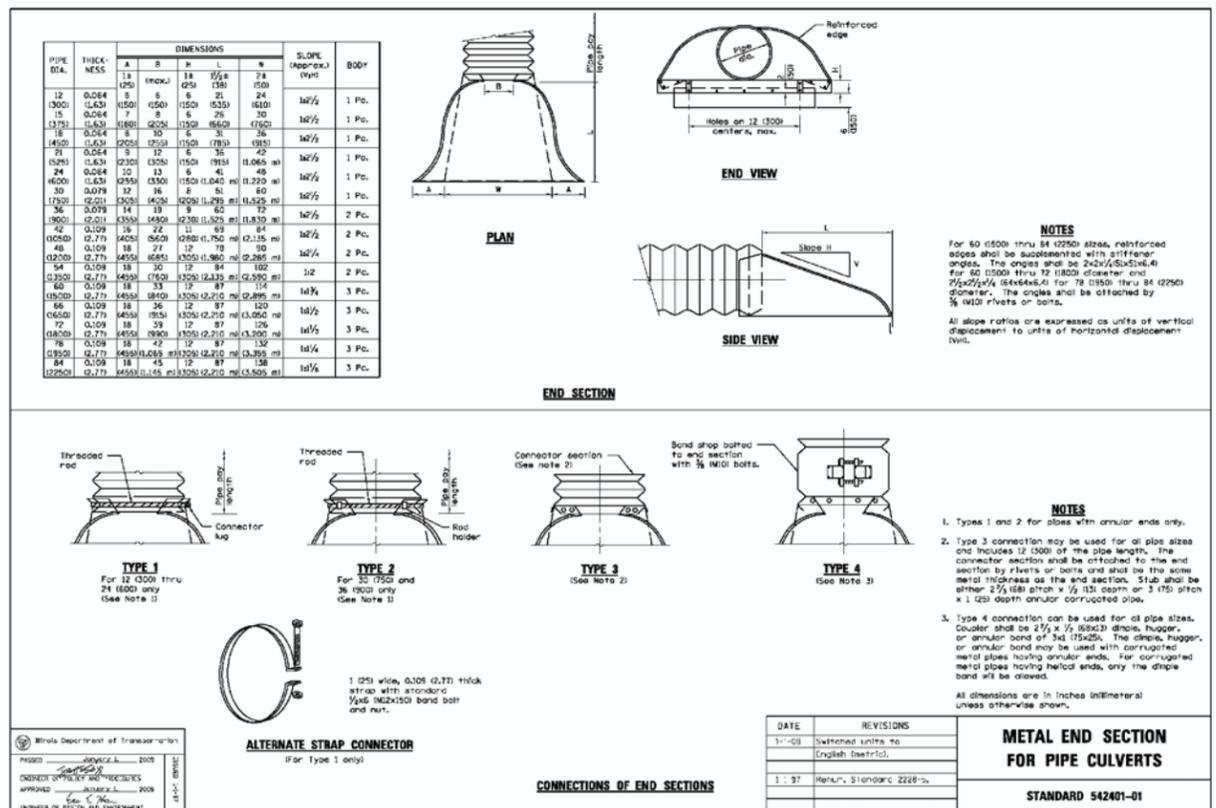
**SESC and Culvert Details**

PROJECT NO:	14-0047	DRAWING NO:	
DESIGNED BY:	KGK	DRAWING NO:	<b>C7.0</b>
DRAWN BY:	KGK		
CHECKED BY:	TLP	APPROVED BY:	
ISSUE DATE:	01/09/2015	SHEET NO:	13 OF 17

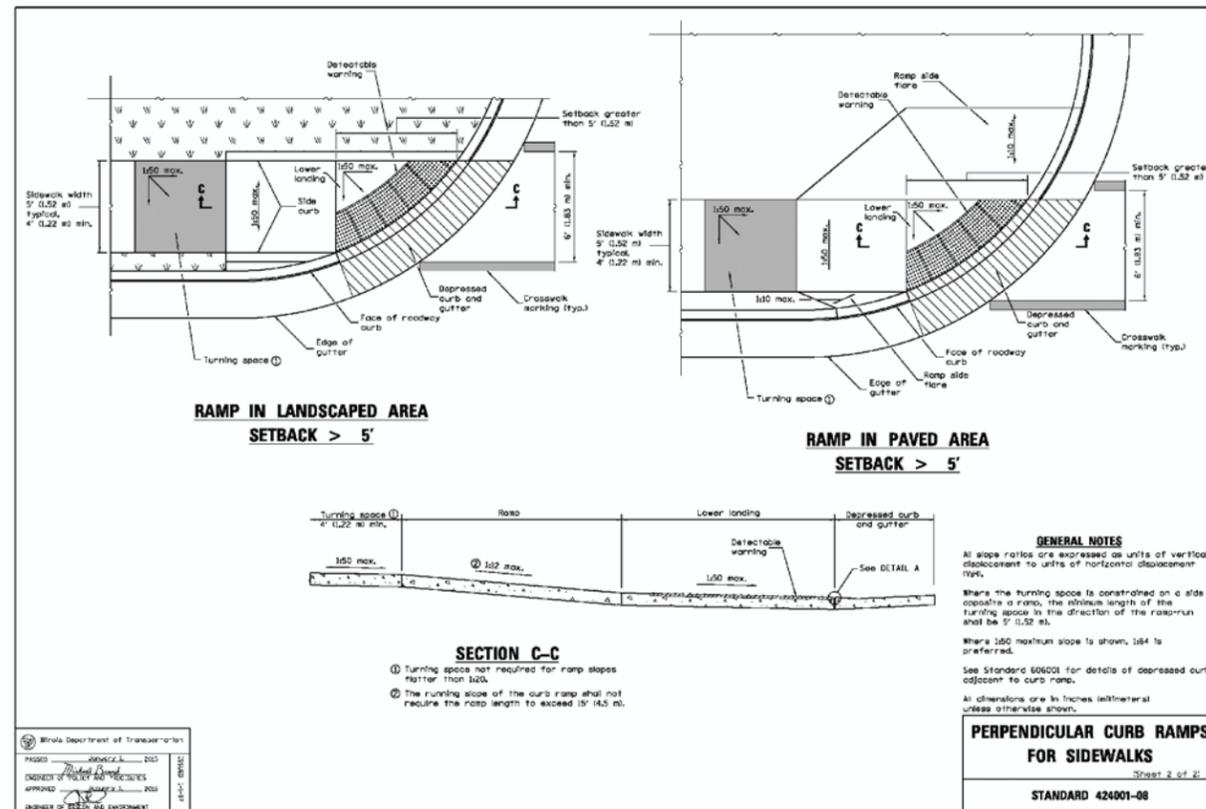
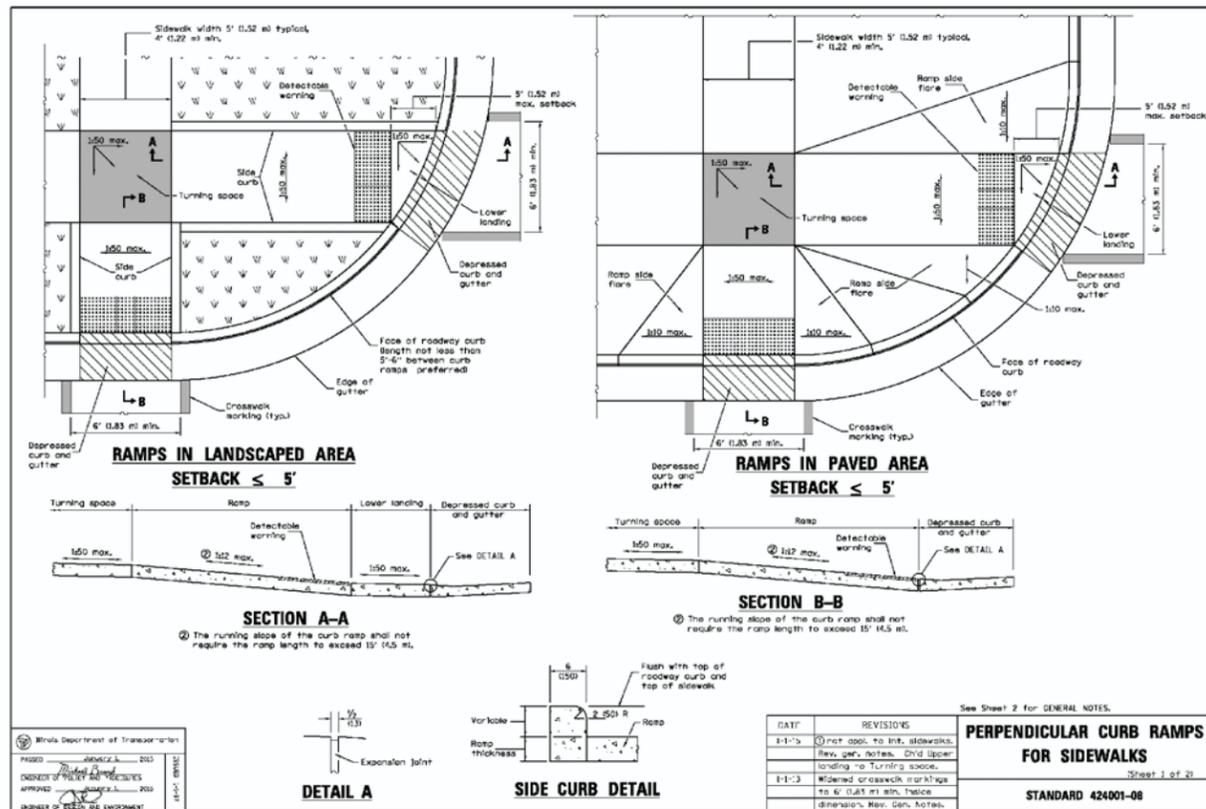
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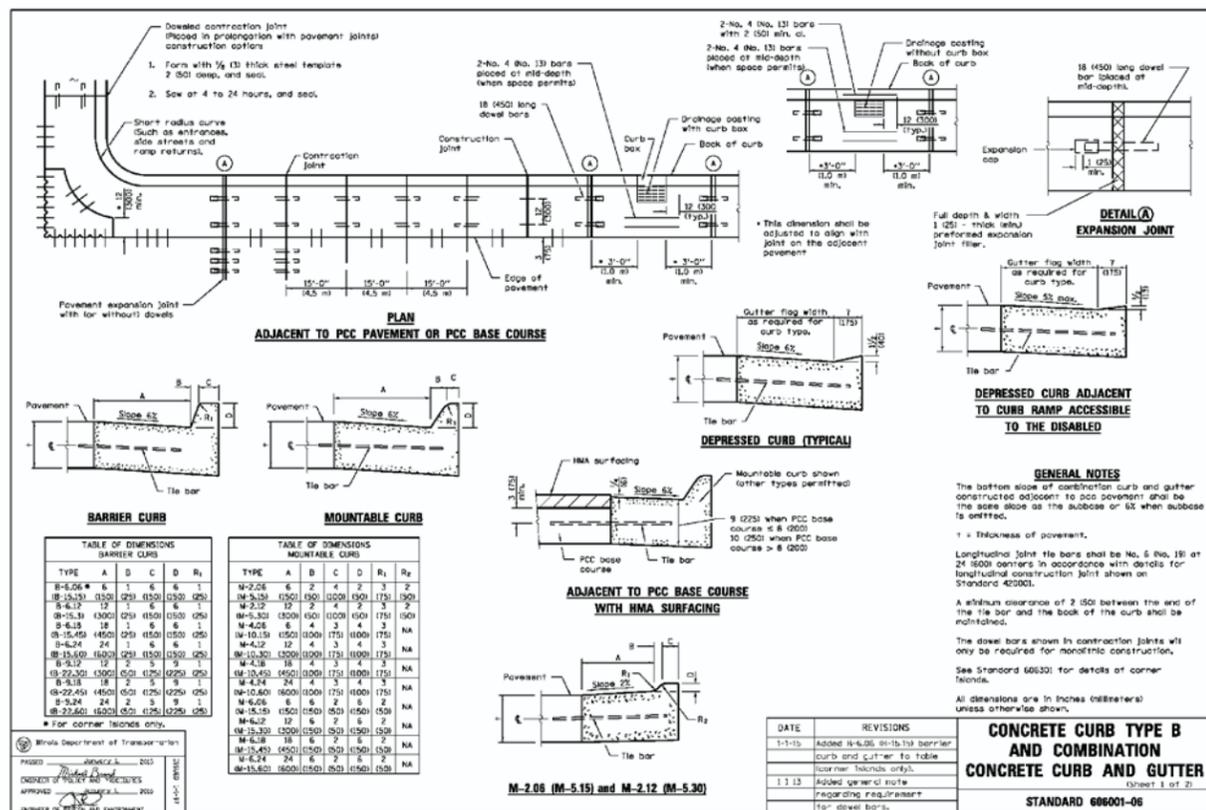
4 Precast Reinforced Concrete Flared End Section Detail (Not to Scale)



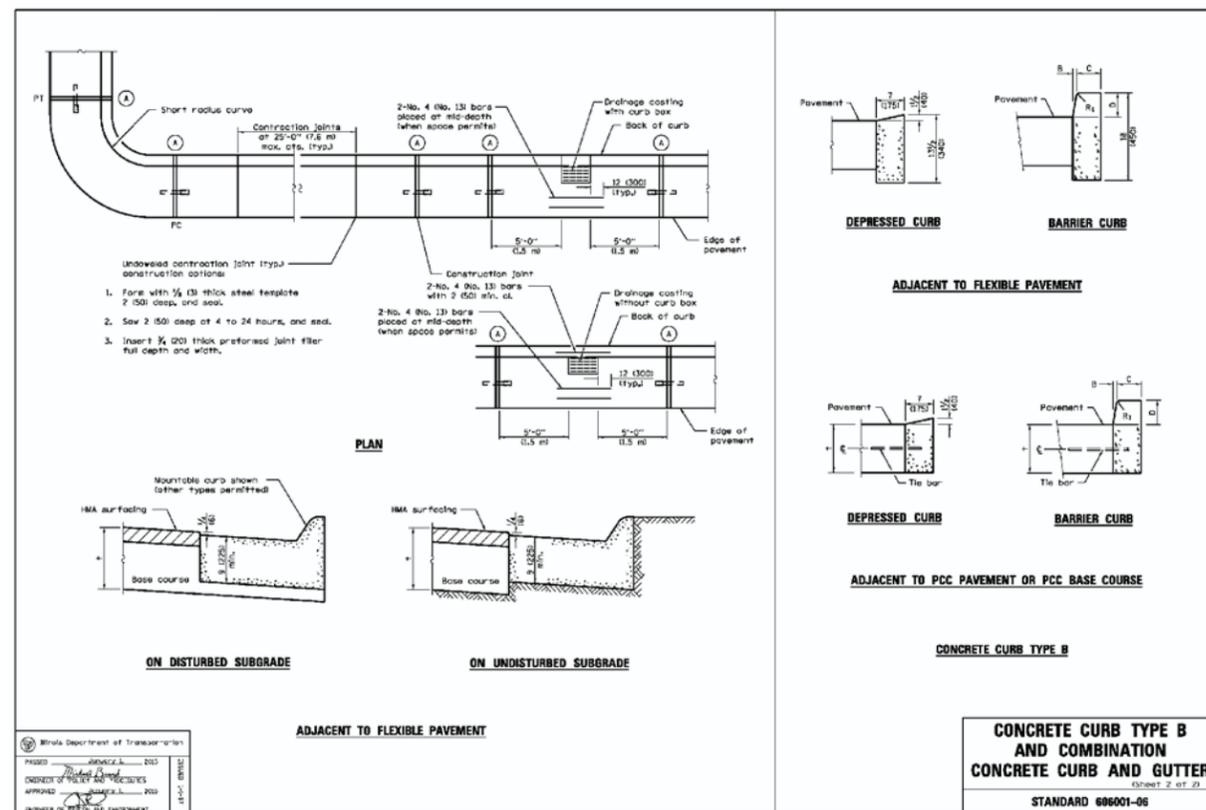
5 Metal End Section for Pipe Culverts (8" similar) Detail (Not to Scale)



1 Perpendicular Curb Ramps for Sidewalks Detail (Not to Scale)



2 Concrete Curb Type B and Combination Concrete Curb and Gutter Detail (Not to Scale)



Scale bar measures 1" at full scale



LEGEND

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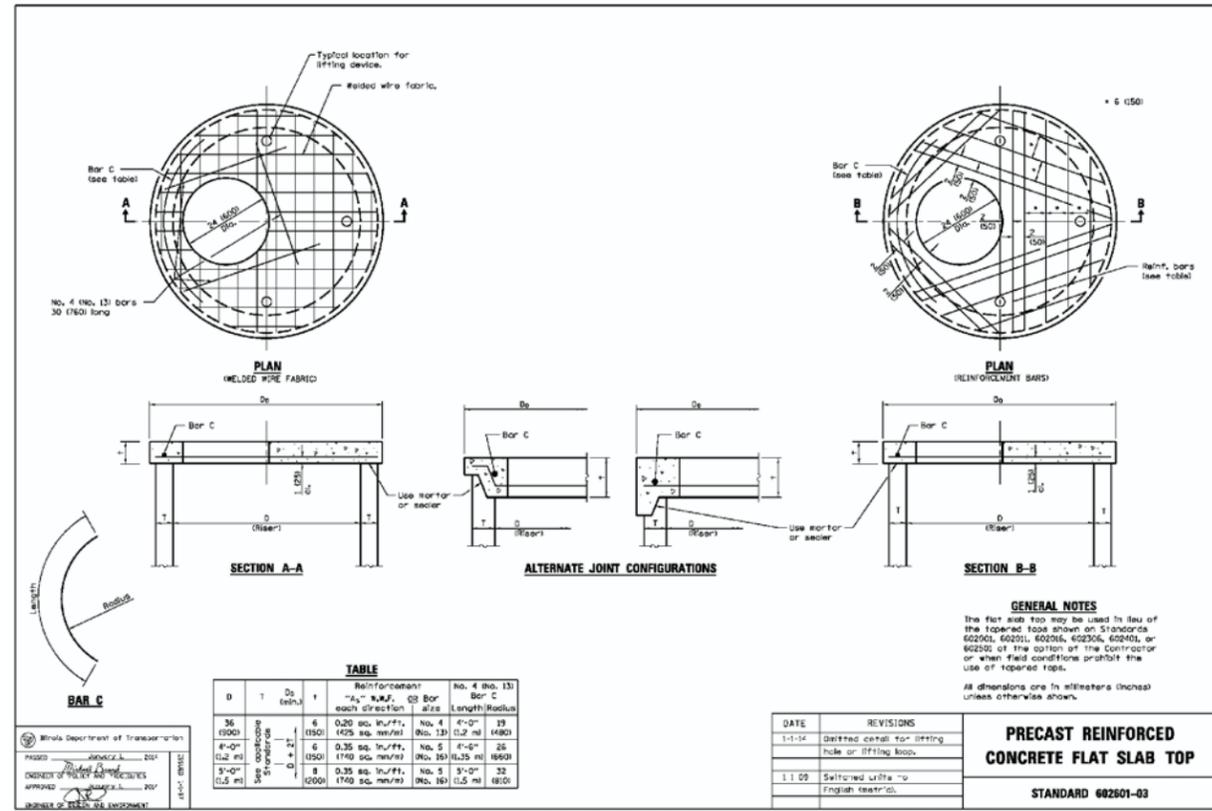
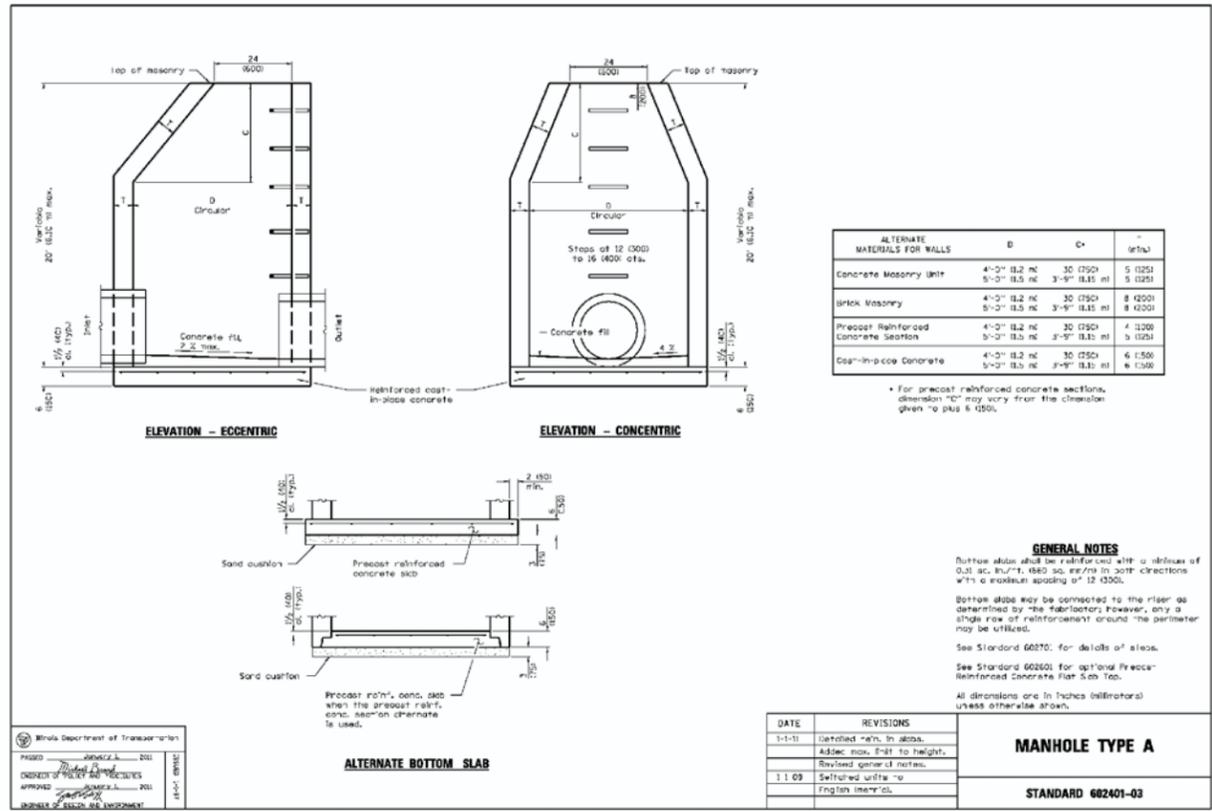
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Curb and Curb Ramp Details

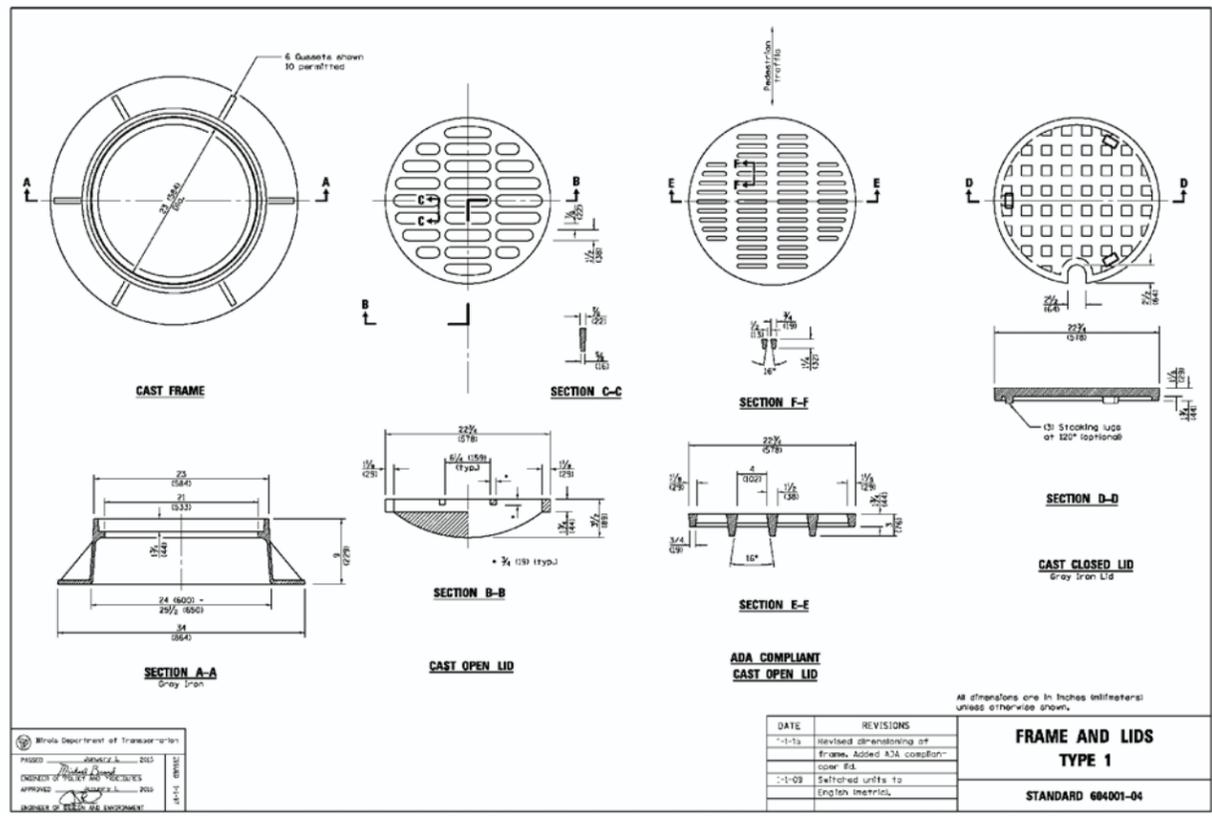
PROJECT NO:	14-0047	DRAWING NO:	C7.1
DESIGNED BY:	KGK	CHECKED BY:	TLP
DRAWN BY:	KGK	APPROVED BY:	
ISSUE DATE:	01/09/2015	SHEET NO:	14 OF 17

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1 Manhole Type A Detail (Not to Scale)

2 Precast Reinforced Concrete Flat Slab Top Detail (Not to Scale)



3 Frame and Lids Type 1 Detail (Not to Scale)

Scale bar measures 1" at full scale



LEGEND

No.	Revision/Issue	Date

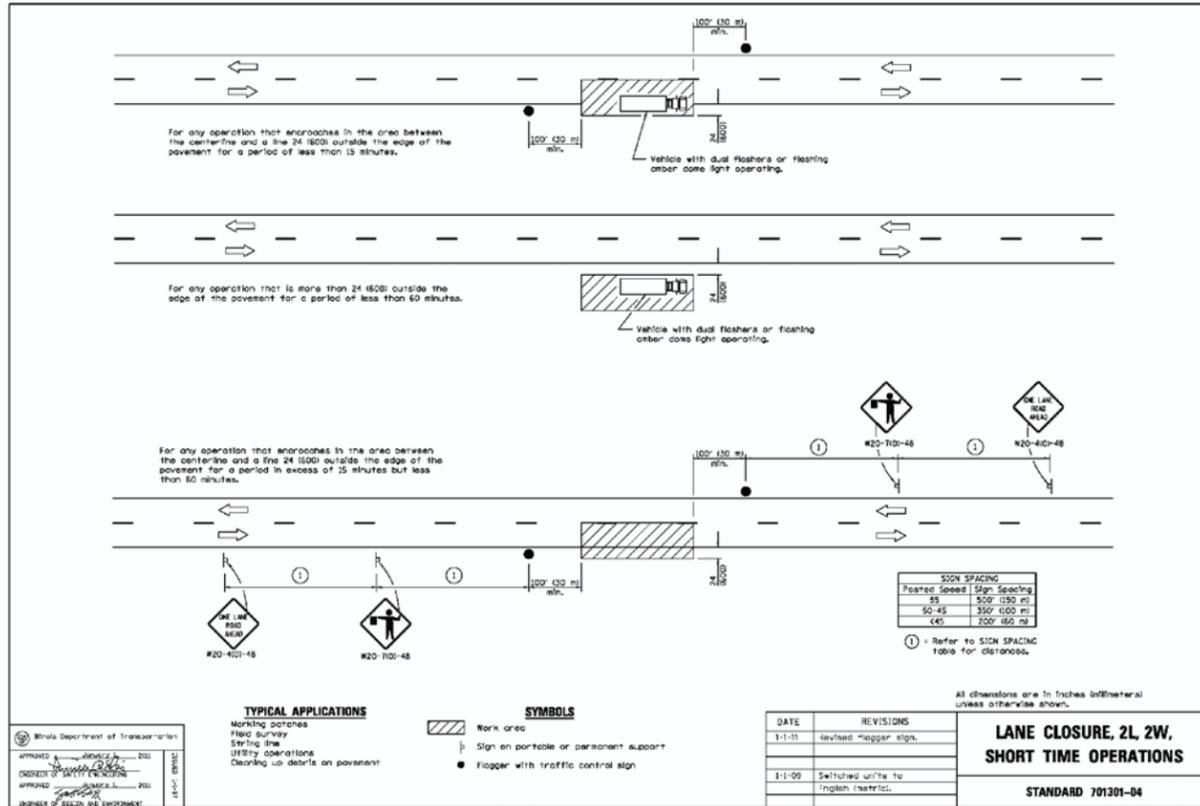
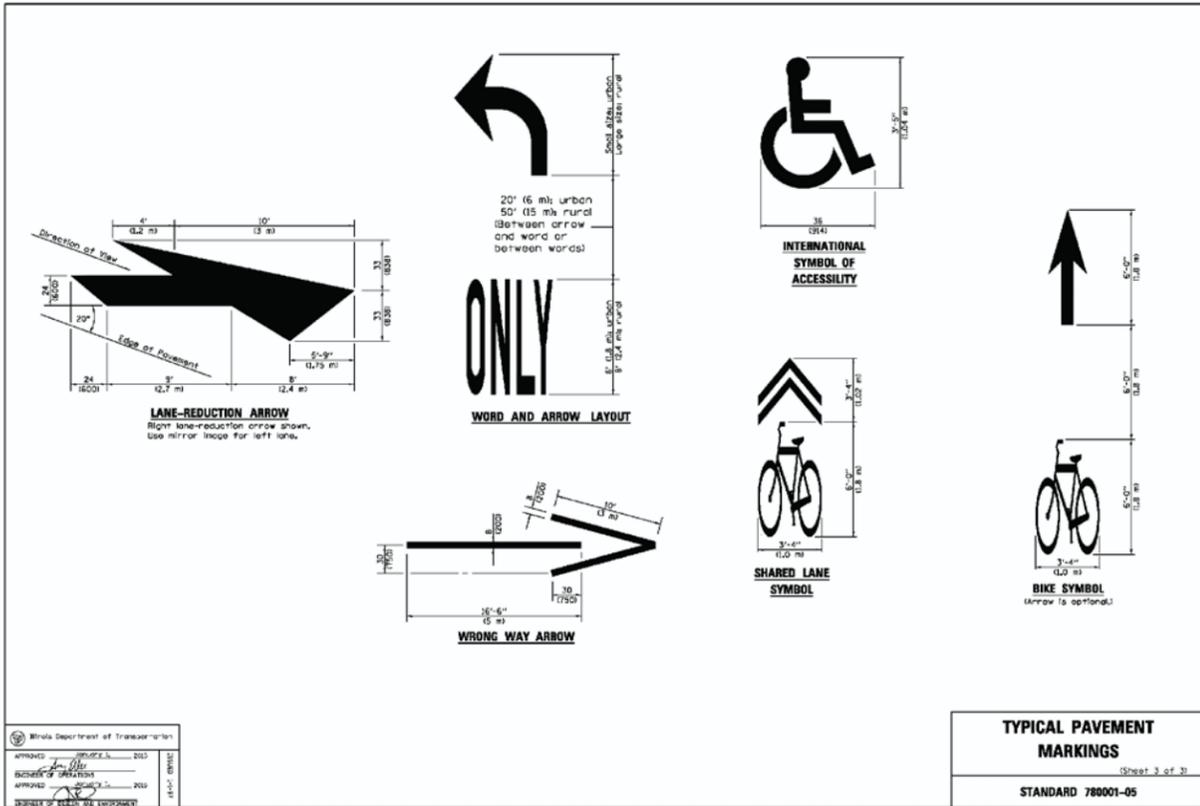
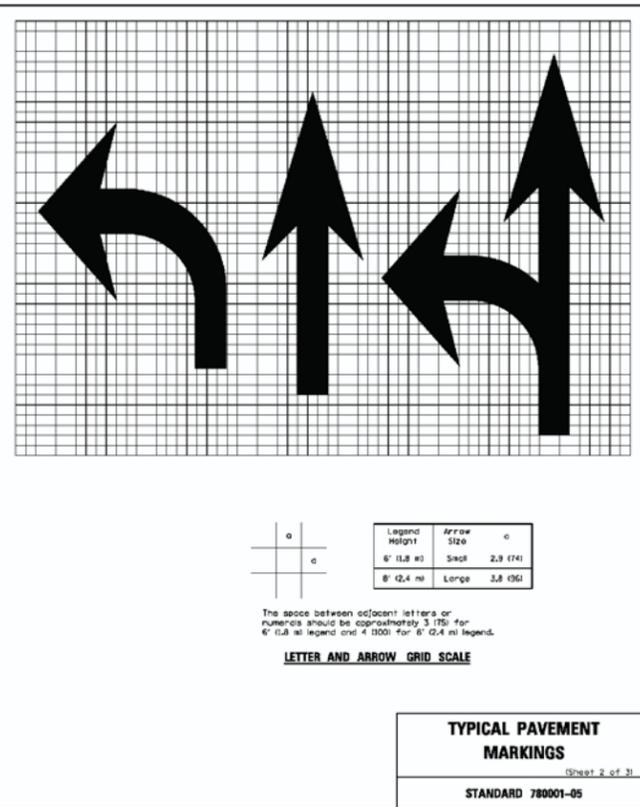
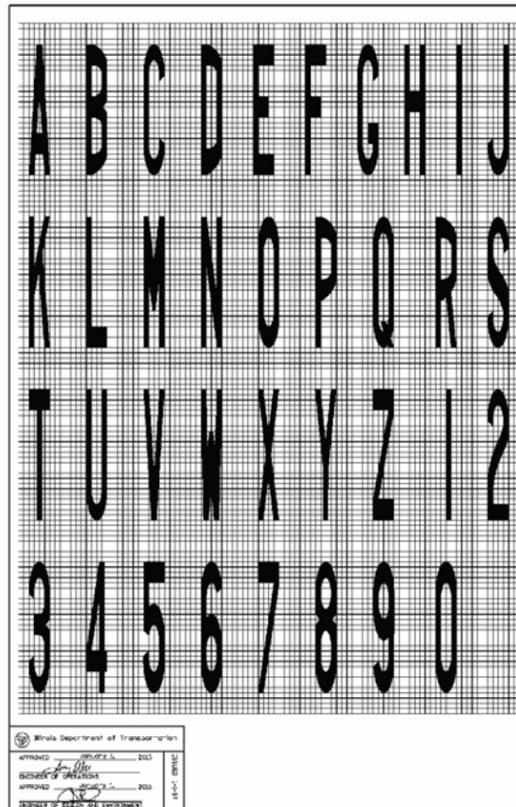
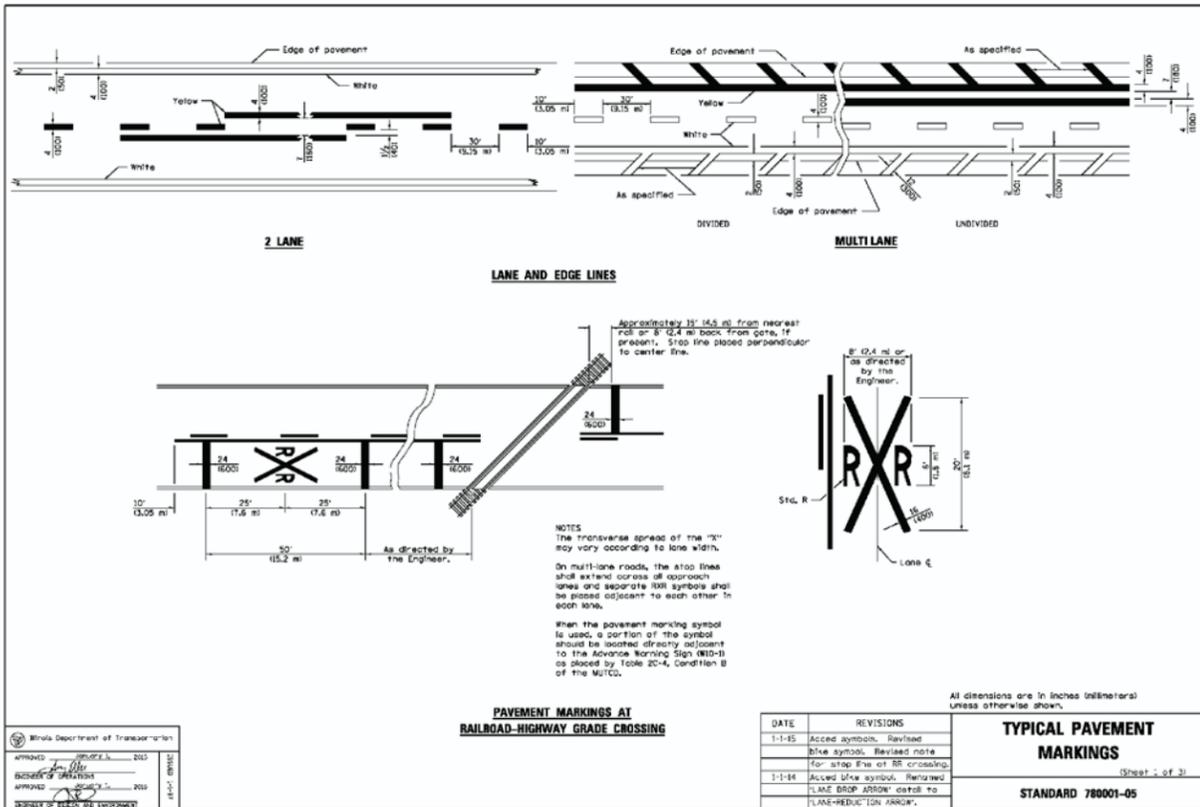
**Hey and Associates, Inc.**  
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Drainage Structure Details

PROJECT NO:	14-0047	DRAWING NO:	<b>C7.2</b>
DESIGNED BY:	KGK		
DRAWN BY:	KGK		
CHECKED BY:	TLP		
APPROVED BY:		SHEET NO:	
ISSUE DATE:	01/09/2015		15 OF 17

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Scale bar measures 1" at full scale

0 1"

**LEGEND**

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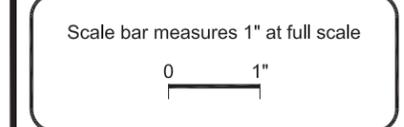
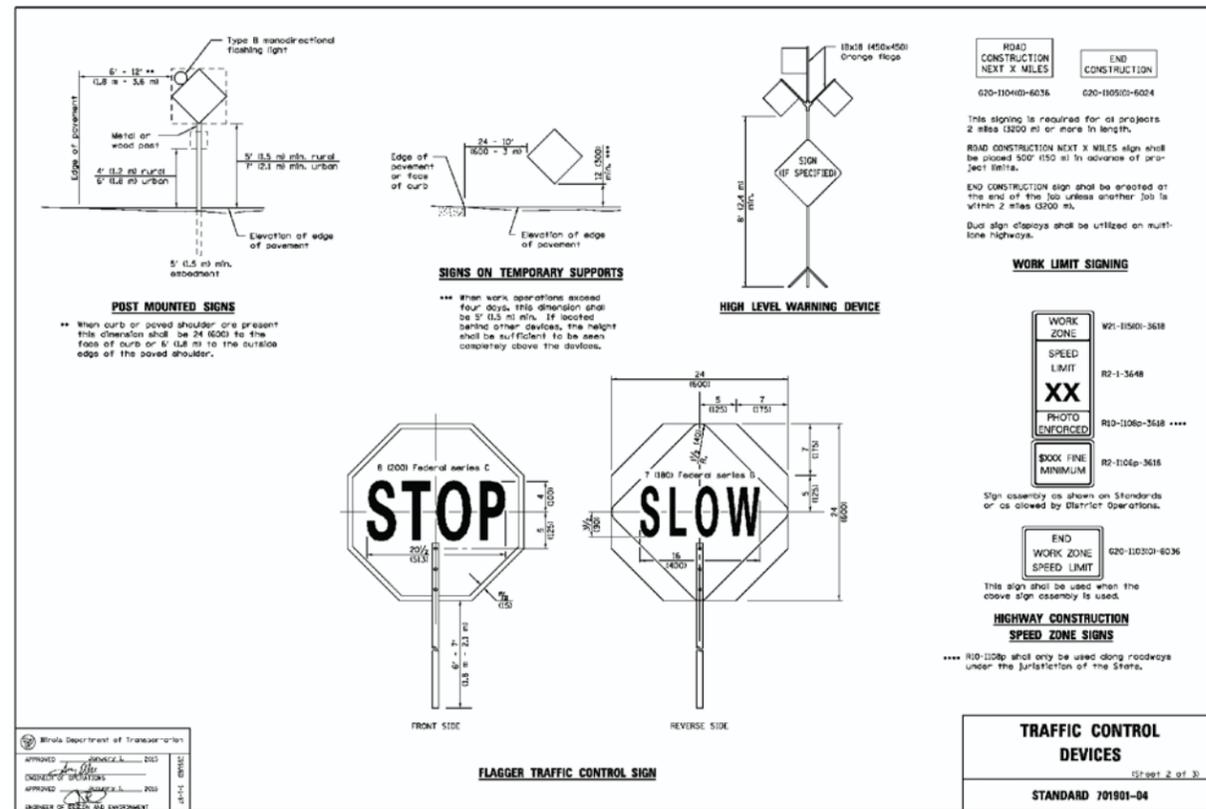
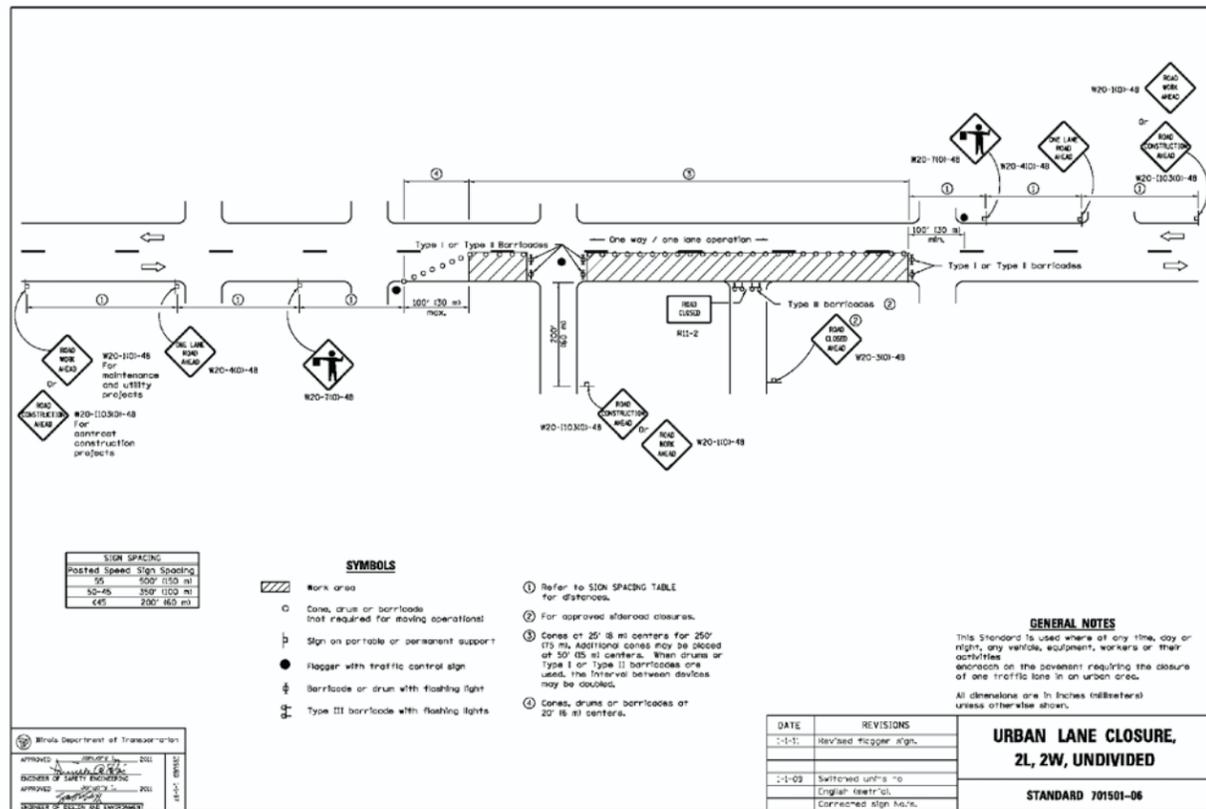
Typical Pavement Marking  
 and Traffic Control Details

PROJECT NO:	14-0047	DRAWING NO:	<b>C7.3</b>
DESIGNED BY:	KGK	SHEET NO:	
DRAWN BY:	KGK	16 OF 17	
CHECKED BY:	TLP		
ISSUE DATE:	01/09/2015		

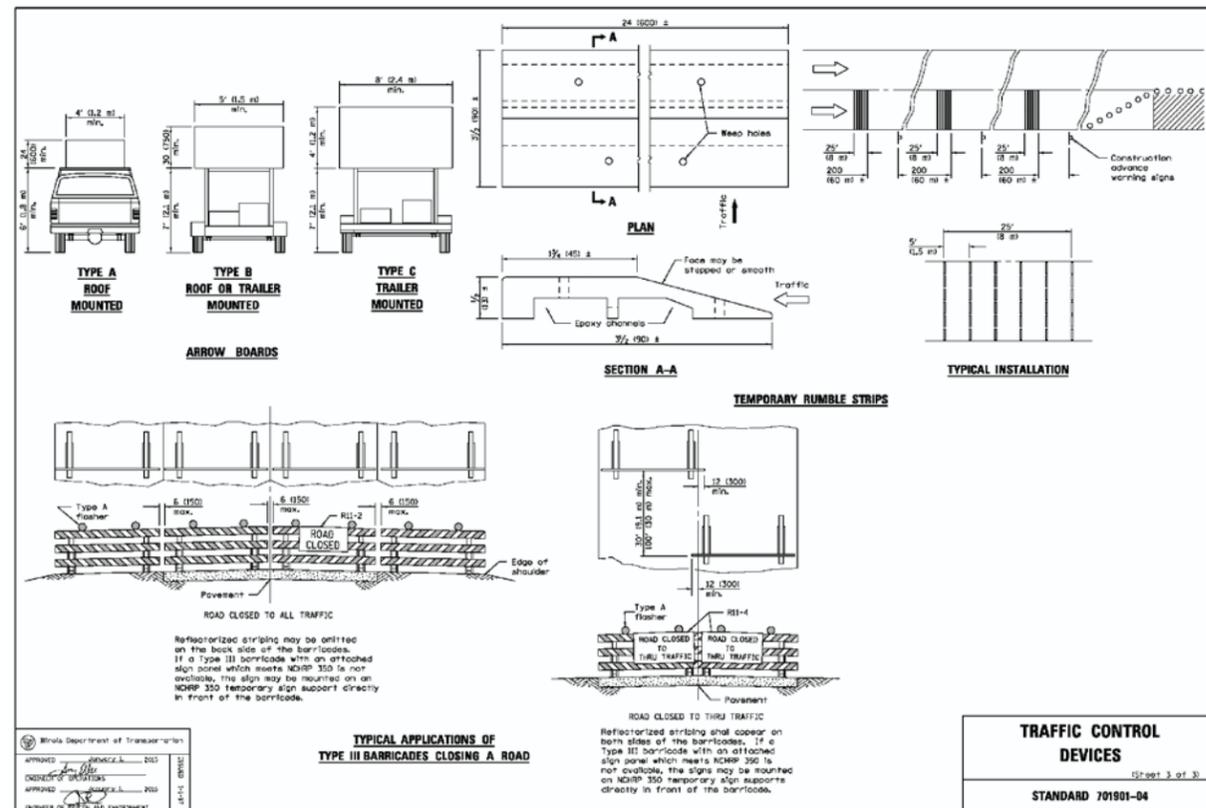
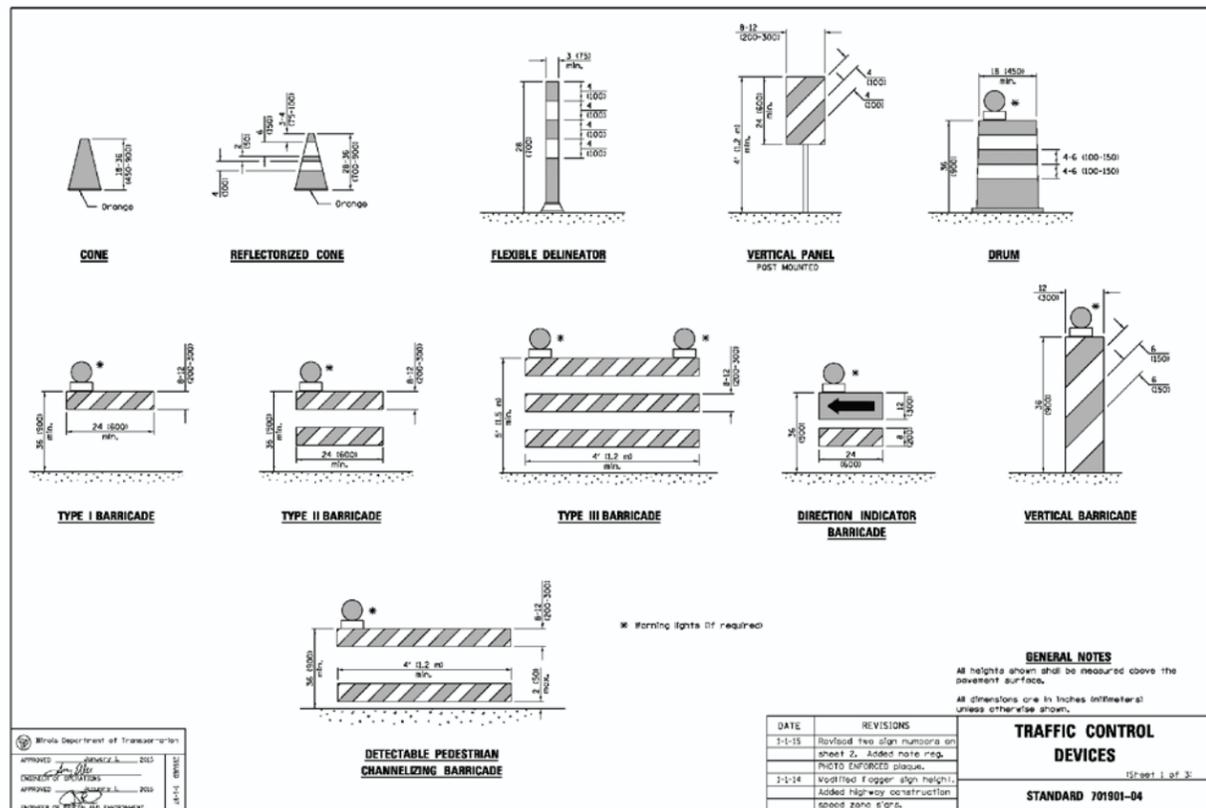
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1 Typical Pavement Markings Detail (Not to Scale)

2 Lane Closure, 2L, 2W, Short Time Operations Detail (Not to Scale)



1 Urban Lane Closure, 2L, 2W, Undivided (Not to Scale)



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Traffic Control Details

PROJECT NO:	14-0047	DRAWING NO:	C7.4
DESIGNED BY:	KGK	CHECKED BY:	TLP
DRAWN BY:	KGK	ISSUE DATE:	01/09/2015
APPROVED BY:		SHEET NO.:	17 OF 17

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2 Traffic Control Devices (Not to Scale)