

CONSTRUCTION PLANS
 FOR
FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT SYSTEM IMPROVEMENTS, PHASE 1

PORTER CO. DEPARTMENT OF DEVELOPMENT & STORMWATER MANAGEMENT
 MARCH 6, 2025

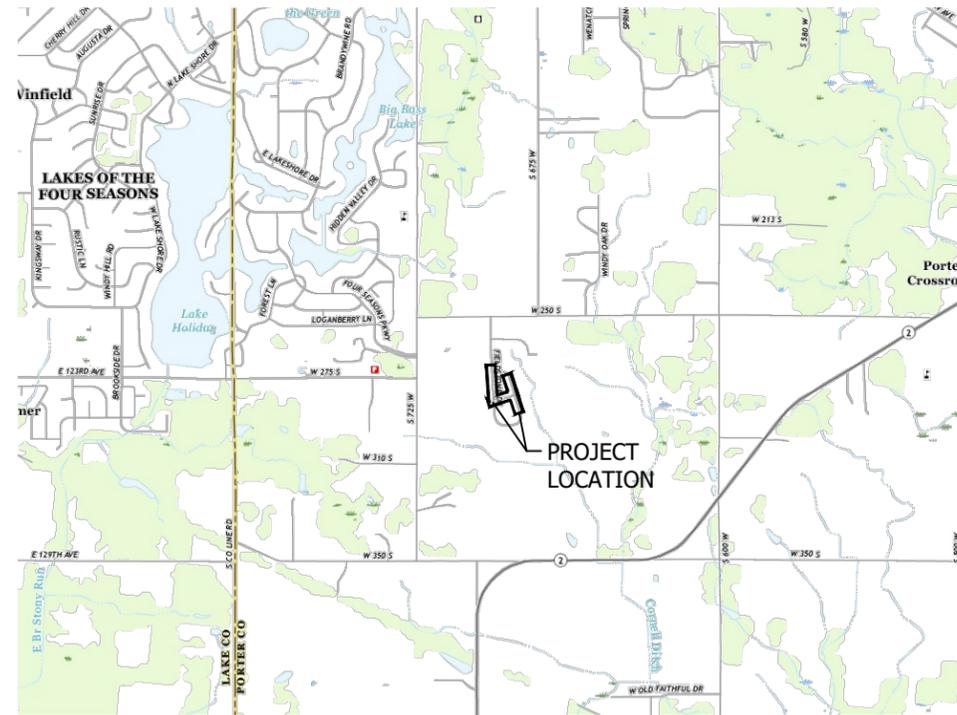
The following Construction Plans shall apply to and govern the project designated as **Fieldstone Manor Subdivision –Storm Water Management System Improvements, Phase 1**. Such Construction Plans supplement the specifications contained in the documents listed in the table below and, in case of conflict with any part or parts of said specifications, the Engineer shall determine which specifications shall take precedence and govern. The following hierarchy will be applied by the Engineer in resolving any conflict, error, ambiguity, or discrepancy in or between said specifications.

Specification	Issuing Agency	Adopted/Dated
Special Provisions and Technical Specifications for Fieldstone Manor Subdivision – Storm Water Management System Improvements, Phase 1	Porter Co. Department of Development & Storm Water Management	March 6, 2025
Construction Plans for Fieldstone Manor Subdivision – Storm Water Management System Improvements, Phase 1	Porter Co. Department of Development & Storm Water Management	February 2025
General Specifications to the Construction & Maintenance Services Agreements	Porter Co. Department of Development & Storm Water Management	February 1, 2025

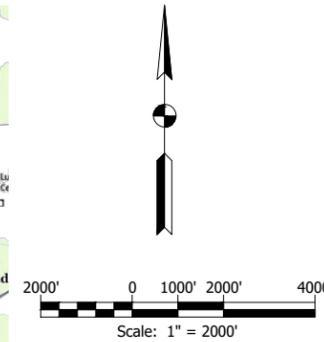
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FIELDSTONE MANOR SUBDIVISION STORM WATER MANAGEMENT SYSTEM IMPROVEMENTS - PHASE I PORTER COUNTY, INDIANA

DRAWING INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND AND GENERAL NOTES
3	SHEET LAYOUT
4 - 5	PLAN AND PROFILES - COBBLE LANE
6 - 7	PLAN AND PROFILES - FIELDSTONE DRIVE
8	PLAN AND PROFILE - PEBBLE LANE
9 - 10	EROSION CONTROL PLANS - COBBLE LANE
11 - 12	EROSION CONTROL PLANS - FIELDSTONE DRIVE
13	EROSION CONTROL PLANS - PEBBLE LANE
14 - 15	CIVIL DETAILS
16	EROSION CONTROL DETAILS
17 - 31	CROSS SECTIONS



LOCATION MAP
PORTER COUNTY



OWNER

PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT
ATTN: CHELSEY R. GORDON, P.E.

155 INDIANA AVENUE
SUITE 311
VALPARAISO, IN 46383
PHONE: (219) 465-3530

ENGINEER

LAWSON-FISHER ASSOCIATES, P.C.
ATTN: KEVIN J. SIEDLECKI, P.E.
525 W. WASHINGTON AVENUE
SUITE 200
SOUTH BEND, IN 46601
PHONE: (574) 234-3167

PORTER COUNTY STORM WATER MANAGEMENT BOARD

JIM BIGGS	COUNTY COMMISSIONER
BARB REGNITZ	COUNTY COMMISSIONER
EDWARD MORALES	COUNTY COMMISSIONER
KEVIN BREITZKE	COUNTY SURVEYOR

DEPARTMENT OF DEVELOPMENT & STORM WATER MANGEMENT

W. MICHAEL JABO	DIRECTOR
CHELSEY R. GORDON, P.E.	STORM WATER PROGRAM MANAGER

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Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

TITLE SHEET

REVISIONS	HORIZONTAL SCALE AS NOTED VERTICAL SCALE	PROJECT NUMBER 201851.10
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	1 OF 31

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EXISTING FEATURES LEGEND:

- ◆ Benchmark
- Control Point
- Iron Found
- ⊠ Electric Pedestal
- ⊠ Electric Transformer
- ☆ Light Pole
- ≡ Storm Inlet
- ⊠ Telephone Pedestal
- ⊠ Bush
- ☀ Coniferous Tree
- ⊠ Deciduous Tree
- ⊠ Rock
- Post
- ⊠ Mailbox
- ⊠ Sign

MISCELLANEOUS LINES:

----- Construction Limits

R/W PATTERNS:

- Existing R/W
- Property Line
- Subdivision Lot Line
- Easement Line

UTILITY PATTERNS:

- E ----- Existing Electrical Line
- G ----- Existing Gas Line
- T ----- Existing Telephone Line
- ==== Ex Storm ===== Existing Storm Sewer
- Proposed Storm Sewer

REAL ESTATE SYMBOLS:

- ⌋ Property Ownership Hook
- ⌋ Property Line
- R/W Right-of-Way

PUBLIC UTILITY

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys. This information does not relieve the contractor of the responsibility to be satisfied as to its accuracy and the location of existing utilities.

OWNER

Comcast North
Contact: Kevin Watson
16 W. 84th Dr.
Merrillville, IN 46410
Phone: (219) 252-5039
Kevin_Watson@comcast.com

Crown Castle
Fiber Dig Team
1500 Corporate Dr.
Canonsburg, PA 15317
Phone: (888) 632-0931 Ext. 2
fiber.dig@crowncastle.com

Kankakee Valley R.E.M.C.
Jacob Bailey
8642 W. U.S. Highway 30
P.O. Box 157
Wanatah, IN 46390
Phone: (219) 733-2511
jbailey@kvremc.com

NIPSCO Gas (Crown Point & Valparaiso)
801 E. 86th Ave.
Merrillville, IN 46410
Phone: (219) 647-4912
utilitycoordination@nisource.com

Northwestern Indiana Telephone Company
Don Schoenbeck
205 N. Washington St.
PO Box 67
Hebron, IN 46341
Phone: (219) 996-0216
dons@nitco.com

UTILITY

Cable TV

Communication

Electric

Gas

Gas

SURVEY REPORT NOTES

- The purpose of this survey was to collect key drainage and topographic features to facilitate the design of a new storm water sewer system.
- Unless noted otherwise, all coordinates shown hereon are based upon the Indiana State Plane Coordinate System's West Zone (InSPC-1302) per NAD 83 (2011) Epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof.
- Unless noted otherwise, all elevations shown hereon are based upon the North American Vertical Datum of 1988 (NAVD 88).
- Project is located in Section 14, Township 34 North, Range 7 West, Porter Township, Porter County, State of Indiana.
- The horizontal and vertical datum was verified by Global Navigation Satellite System (GNSS) Real Time Kinematic (RTK) observations on National Geodetic Survey (NGS) Control Mark HUTTON (ME0580), elevation 758.09. A Trimble R10 (3mm // 8mm+1ppm RMS) GNSS receiver was utilized and the Indiana Department of Transportation's Continuously Operating Reference Station Network (InCORS) was the correction source.
- A Trimble R10(3mm // 8mm+1ppm RMS) GNSS receiver was utilized to establish the control points. The GNSS observation class was RTK and utilized InCORS as the correction source. Three separate GNSS (RTK) observations were simple mean averaged to establish the control point locations. Occupation times were an average of 423 epochs each.
- A closed differential level circuit was completed with a Trimble Dini (0.7mm/km) digital level to establish elevations for all control points and benchmarks. The GNSS (RTK) established elevation of control point Field 2 was held as the starting benchmark.
- The following ticket numbers were submitted to Indiana 811:
1808292255, 1808292289, 1808292376, 1808292394, 1808292434, 1808292559, 1808292675, 1808292724, 1808292750, 1808292777, 1808292795, 1809064210
Utilities were located as marked in the field. No indications or appurtenances of underground utilities appeared to be unmarked by Indiana 811 including, but not limited to; valves, telephone pedestals, or underground utility signs, etc., were found by Lawson-Fisher Associates.
- The topographic survey was completed on 02 October 2018. A field check was completed on 21 September 2020

HORIZONTAL CONTROL (INSPC - WEST ZONE // U.S. FEET)

ID	Northing	Easting	Elevation (NAVD 88)	Marker
Cobb 1	2238582.8077	2921449.9261	764.48	1/2"x18" Rebar w/ Green Cap Stamped "LAWSON-FISHER"
Cobb 2	2238109.9267	2921550.3115	760.43	4" Mag Spike w/ Washer Stamped "LAWSON-FISHER"
Field 1	2239700.2909	2920881.0491	775.17	1/2"x18" Rebar w/ Green Cap Stamped "LAWSON-FISHER"
Field 2	2239010.9786	2921004.3958	778.21	1/2"x18" Rebar w/ Green Cap Stamped "LAWSON-FISHER"
Field 3	2238334.2360	2920944.7811	774.66	1/2"x18" Rebar w/ Green Cap Stamped "LAWSON-FISHER"

While control point elevations are provided for reference it should be understood that the markers used are subject to vertical movement due to frost heave, vehicle movements and other environmental factors. All horizontal control point elevations are superseded by bench mark elevations.

VERTICAL CONTROL (NAVD 88)

ID	Elev.	Remarks	Northing	Easting	Latitude	Longitude
Cobb A Reset	761.60	4" Mag Spike w/ Washer Stamped "LAWSON-FISHER"; 42' N. of the Inters. of Cobble and Pebble; 1.92' W. of the E. Edge of Pvm't.	2238489.8	2921452.5	N41°23'37.53"	W87°11'50.65"
Cobb B	760.43	4" Mag Spike w/ Washer Stamped "LAWSON-FISHER"; 337' S. 96' E. of the Inters. of Cobble and Pebble; 1.8' E. of the W. Edge of Pvm't. (AKA Control Point Cobb 2)	2238109.9	2921550.3	N41°23'33.78"	W87°11'49.36"
Field A	773.63	1 1/2" Mag Nail w/ Washer Stamped "LAWSON-FISHER"; 56' N. and 13' W. of the Inters. of Fieldstone and Flint; 0.85' E. of the W. Edge of Pvm't.	2239719.4	2920912.5	N41°23'49.68"	W87°11'57.75"
Field B Reset	776.04	4" Mag Spike w/ Washer Stamped "LAWSON-FISHER"; 13' N. and 47' E. of the Inters. of Fieldstone and Cobble; 0.75' S. of the Edge of Pvm't.	2238970.7	2921005.4	N41°23'42.28"	W87°11'56.52"
Field C Reset	772.33	4" Mag Spike w/ Washer Stamped "LAWSON-FISHER"; 30' S. and 11' W. of the Inters. of Pebble and Fieldstone; 0.9' E. of the W. Edge of Pvm't.	2238334.8	2920983.4	N41°23'36.00"	W87°11'56.80"

While bench mark coordinates are provided for reference it should be understood that the method and means used to establish the coordinates of the bench marks is not the same class and standard as those used to establish the horizontal control points. The coordinates only serve as an aid in locating the marks and are superseded by horizontal control point coordinates.

LEGEND:

- (C) Portland Cement Concrete Pavement for Residential Approaches, 5" on Subgrade Treatment Type II
- (D) HMA for Residential Approaches, Type B
330 #/sys HMA for Drive Patching
165 #/sys HMA Surface, Type B, on
165 #/sys HMA Base, Type B, on
Subgrade Treatment, Type II
- (P) HMA for Structure Installation, Type I Pipe
495 #/sys HMA for Structure Installation
165 #/sys HMA Surface, Type B, on
330 #/sys HMA Base, Type B, on
Subgrade Treatment, Type II
- (11) Saw Cut
- (29) Mulched Seeding
- (67) Remove Pipe
- (80) Protect
- (85) Drain Tile Investigation
- (95) Pavement Removal
- (99) Remove
- (DIP) Ditch Inlet Protection

INDIANA 811



Per Indiana State Law IC-8-1-26-16: It is against the law to excavate without notifying the underground location service two (2) working days before commencing work.

INDIANA 811
1-800-382-5544 OR CALL 811
24 HOURS A DAY 7 DAYS A WEEK

Note: Utility locations are shown based upon information (maps and paint marks) supplied by others, and there is not guarantee of the accuracy or completeness of said locations.

LFA
LAWSON-FISHER ASSOCIATES P.C.
525 W. WASHINGTON AVENUE
SOUTH BEND, INDIANA 46601
PH. (574) 234-3167

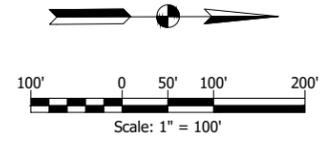


Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

LEGEND AND GENERAL NOTES

REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER
	VERTICAL SCALE	201851.10
DRAWN: RHK	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE	2 OF 31
	FEBRUARY 2025	



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Kevin J. Siedlecki
 SIGNATURE
 12/4/23
 DATE

**FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I**

SHEET LAYOUT

REVISIONS	HORIZONTAL SCALE 1" = 100' VERTICAL SCALE	PROJECT NUMBER 201851.10
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	3 OF 31

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10+00

11+00

12+00

13+00

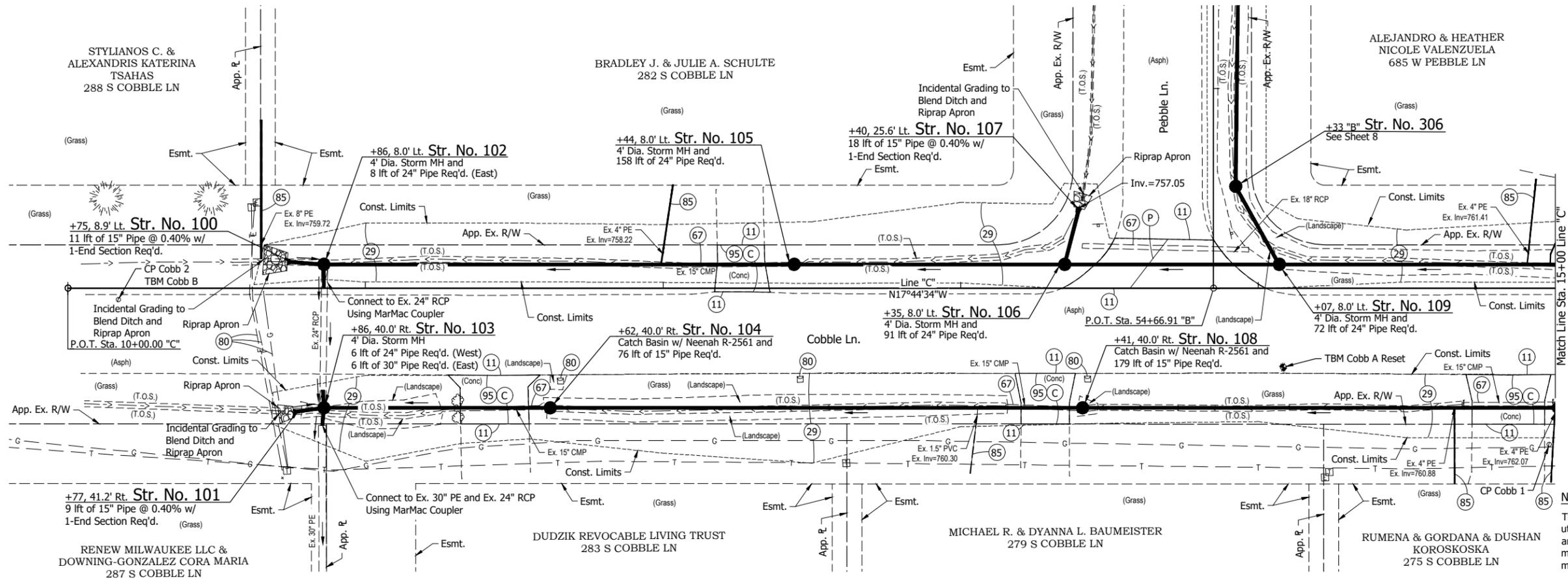
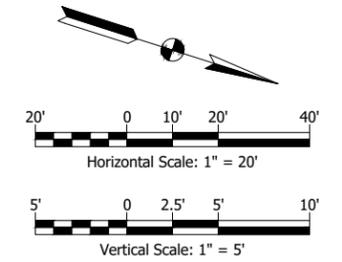
14+00

15+00

STYLIANOS C. & ALEXANDRIS KATERINA TSAHAS
288 S COBBLE LN

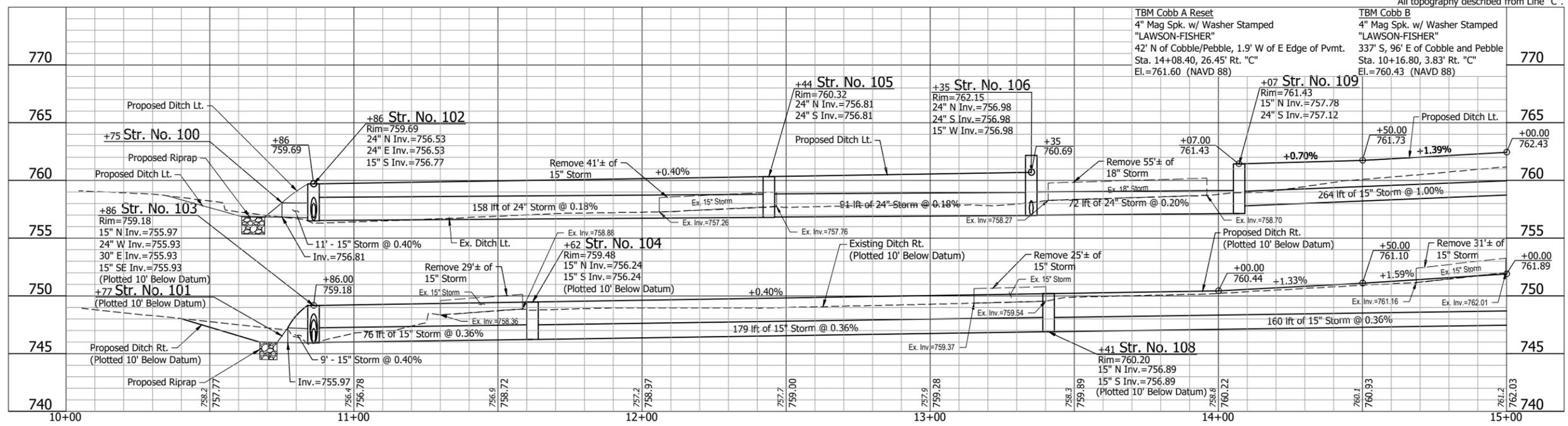
BRADLEY J. & JULIE A. SCHULTE
282 S COBBLE LN

ALEJANDRO & HEATHER NICOLE VALENZUELA
685 W PEBBLE LN



EARTHWORK BALANCE		
Line "C"		
Cut	=	52 cys
Fill +25%	=	838 cys
Borrow	=	838 cys

NOTE:
The contractor shall locate all underground utilities and mailboxes prior to starting work and shall conduct his operation in such manner as to insure that those utilities and mailboxes will not be disturbed.



- LEGEND:**
- (C) Portland Cement Concrete Pavement for Residential Approaches, 5" on Subgrade Treatment Type II
 - (P) Structure Installation, Type I Pipe 495 #/sys HMA for Structure Installation 165 #/sys HMA Surface, Type B, on 330 #/sys HMA Base, Type B, on Subgrade Treatment, Type II
 - (11) Saw Cut
 - (29) Mulched Seeding
 - (67) Remove Pipe
 - (80) Protect
 - (85) Drain Tile Investigation
 - (95) Pavement Removal

LFA
LAWSON-FISHER ASSOCIATES P.C.
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SOUTH BEND, INDIANA 46601
PH. (574) 234-3167

REGISTERED PROFESSIONAL ENGINEER
No. 11100677
STATE OF INDIANA
KEVIN J. SIEDLICKI

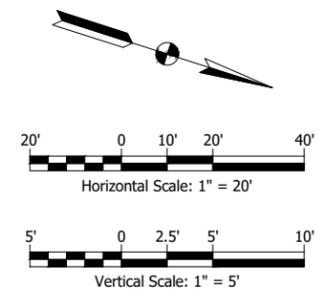
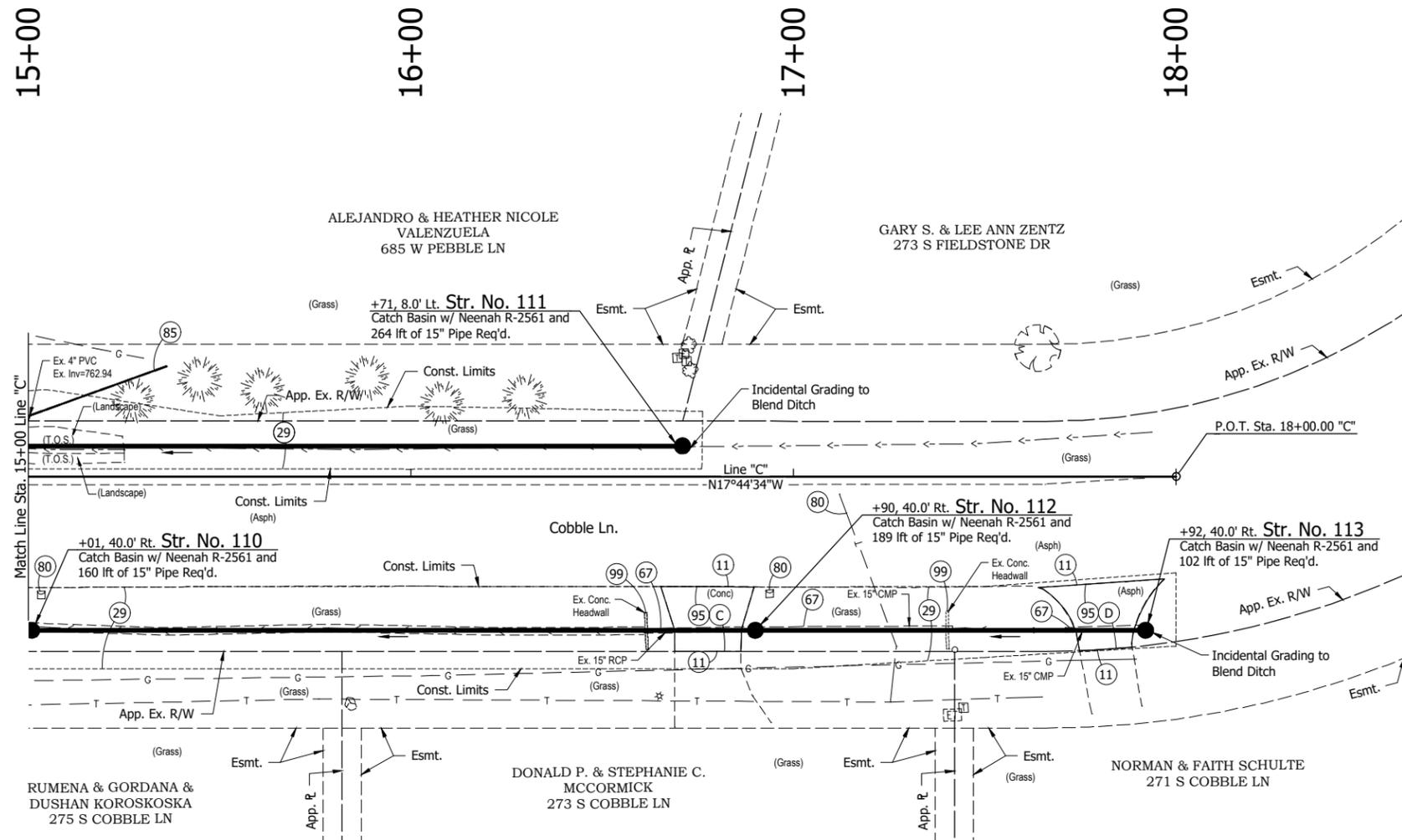
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12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

COBBLE LANE
PLAN AND PROFILE

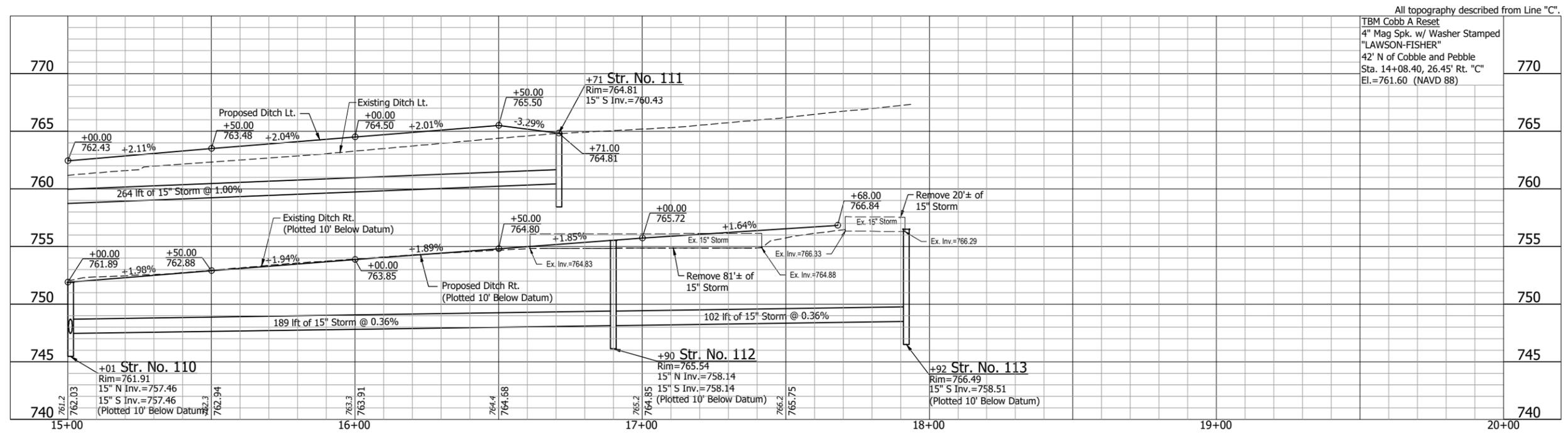
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	VERTICAL SCALE 1" = 5'	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	4 OF 31

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- LEGEND:**
- (C) Portland Cement Concrete Pavement for Residential Approaches, 5" on Subgrade Treatment Type II
 - (D) HMA for Residential Approaches, Type B 330 #/sys HMA for Drive Patching 165 #/sys HMA Surface, Type B, on 165 #/sys HMA Base, Type B, on Subgrade Treatment, Type II
 - (11) Saw Cut
 - (29) Mulched Seeding
 - (67) Remove Pipe
 - (80) Protect
 - (85) Drain Tile Investigation
 - (95) Pavement Removal
 - (99) Remove

NOTE:
The contractor shall locate all underground utilities and mailboxes prior to starting work and shall conduct his operation in such manner as to insure that those utilities and mailboxes will not be disturbed.



All topography described from Line "C".
TBM Cobb A Reset
4" Mag Spk. w/ Washer Stamped
"LAWSON-FISHER"
42' N of Cobble and Pebble
Sta. 14+08.40, 26.45' Rt. "C"
El.=761.60 (NAVD 88)

LFA
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PH. (574) 234-3167

REGISTERED PROFESSIONAL ENGINEER
No. 11100677
STATE OF INDIANA
LEWIS J. SIEDLICKI

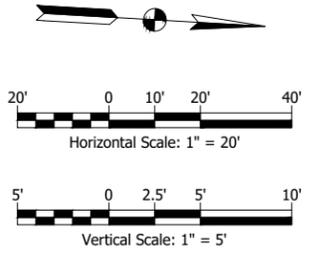
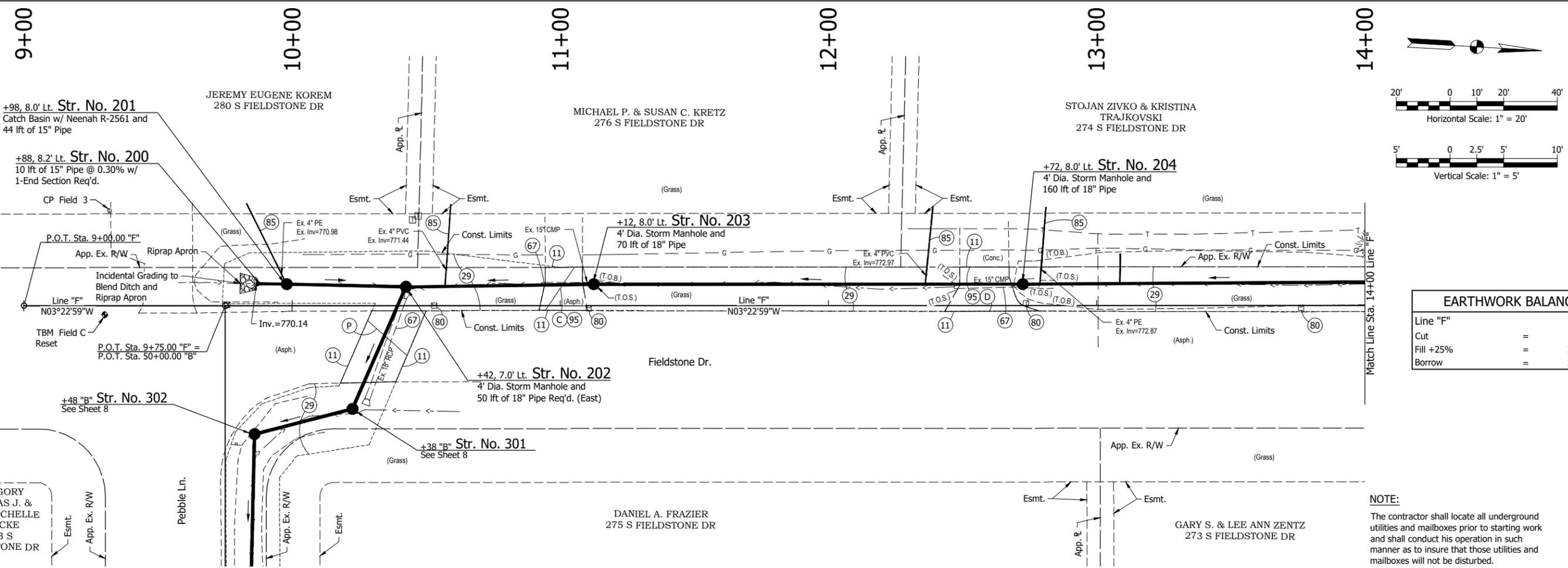
Kevin Siedlicki
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12/4/23
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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

COBBLE LANE
PLAN AND PROFILE

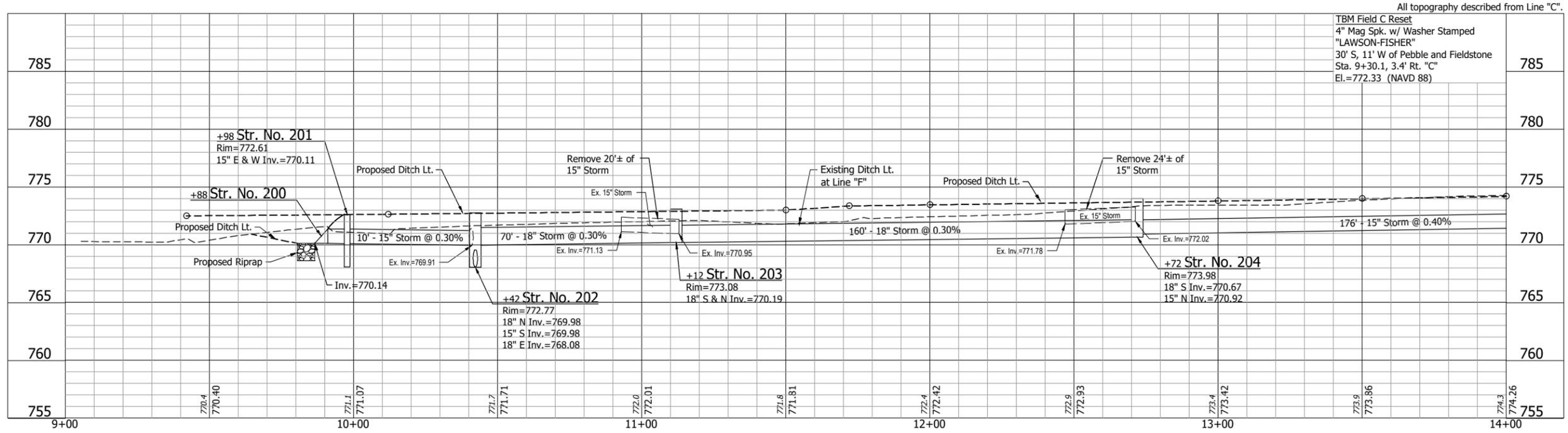
REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	5 OF 31

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EARTHWORK BALANCE		
Line "F"		
Cut	=	8 cys
Fill +25%	=	324 cys
Borrow	=	324 cys

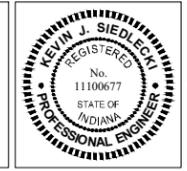
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All topography described from Line "C".

- LEGEND:**
- (C) Portland Cement Concrete Pavement for Residential Approaches, 5" on Subgrade Treatment Type II
 - (D) HMA for Residential Approaches, Type B 330 #/sys HMA for Drive Patching 165 #/sys HMA Surface, Type B, on 165 #/sys HMA Base, Type B, on Subgrade Treatment, Type II
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 - (11) Saw Cut
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 - (67) Remove Pipe
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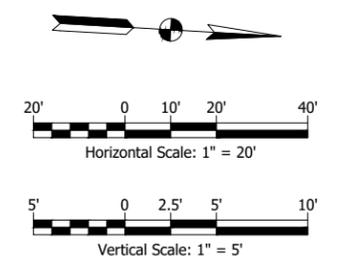
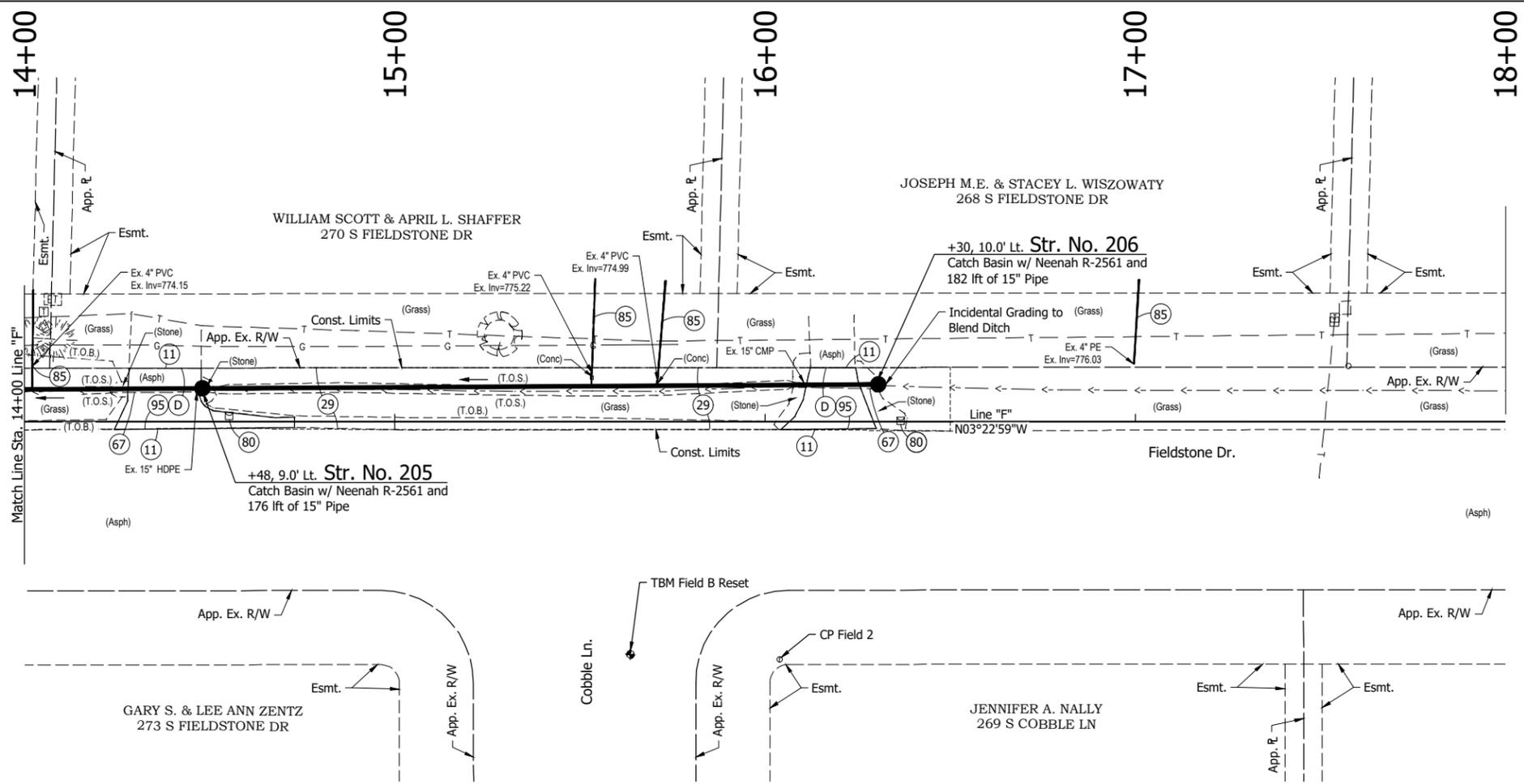
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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

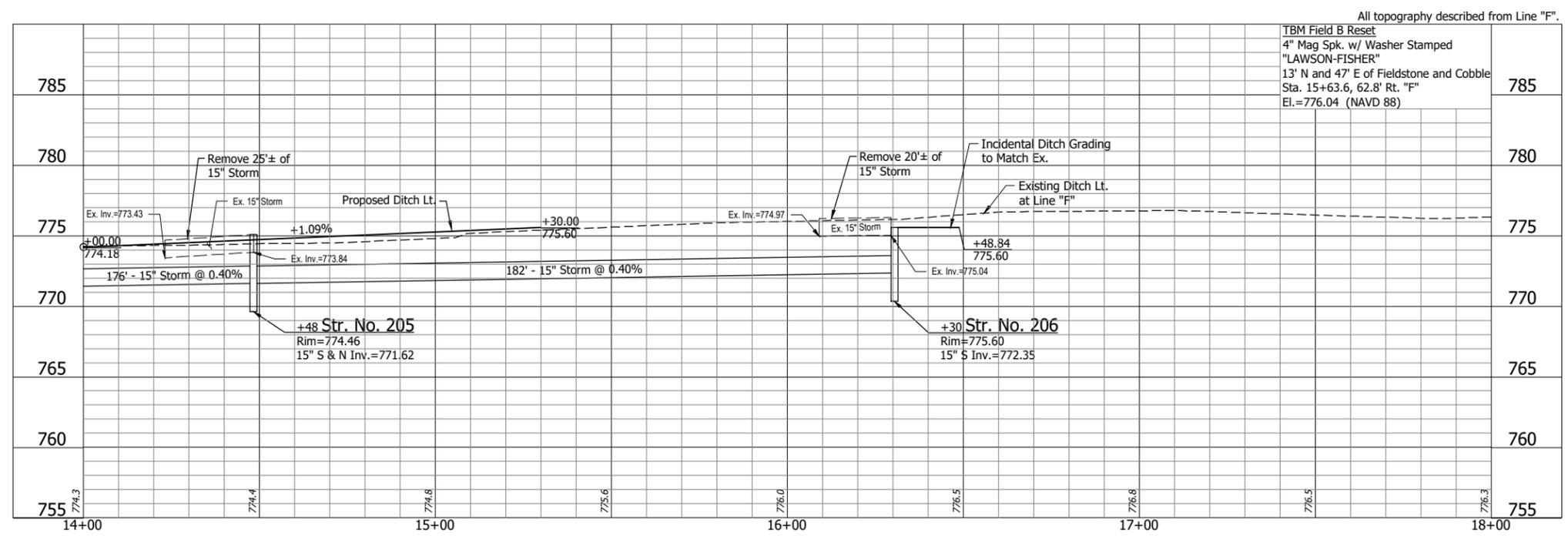
FIELDSTONE DRIVE
PLAN AND PROFILE

REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER
	1" = 20'	201851.10
	VERTICAL SCALE	
	1" = 5'	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE	6 OF 31
	FEBRUARY 2025	

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NOTE:
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- LEGEND:**
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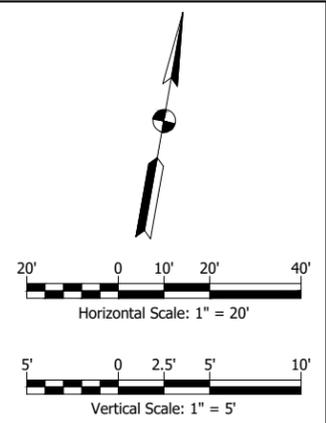
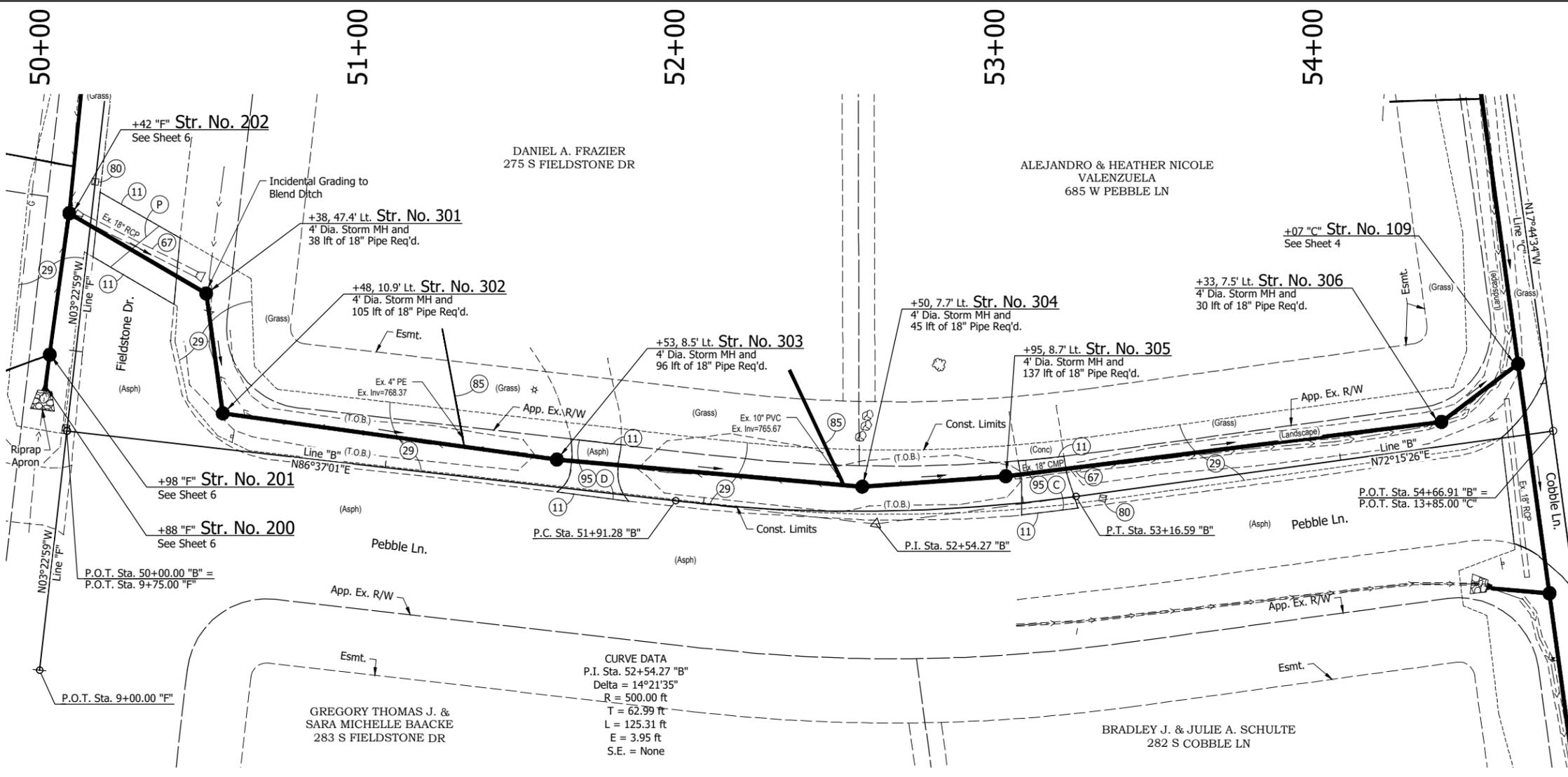
Kurt J. Siedlecki
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12/4/23
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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

FIELDSTONE DRIVE
PLAN AND PROFILE

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	7 OF 31

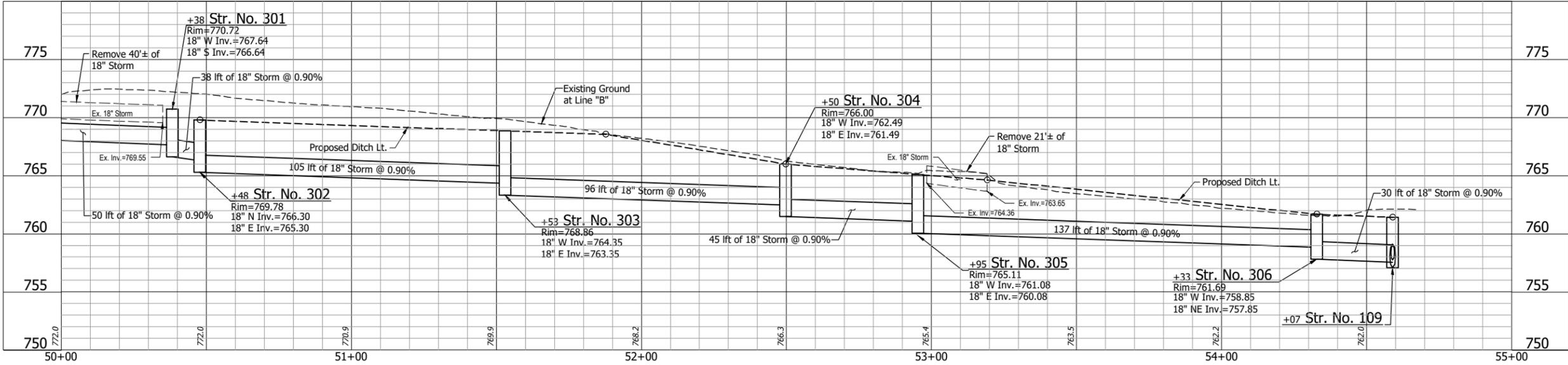
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EARTHWORK BALANCE	
Line "B"	
Cut	= 24 cys
Fill +25%	= 221 cys
Borrow	= 221 cys

- LEGEND:**
- (C) Portland Cement Concrete Pavement for Residential Approaches, 5" on Subgrade Treatment Type II
 - (D) HMA for Residential Approaches, Type B 330 #/sys HMA for Drive Patching 165 #/sys HMA Surface, Type B, on 165 #/sys HMA Base, Type B, on Subgrade Treatment, Type II
 - (P) Structure Installation, Type I Pipe 495 #/sys HMA for Structure Installation 165 #/sys HMA Surface, Type B, on 330 #/sys HMA Base, Type B, on Subgrade Treatment, Type II
 - (11) Saw Cut
 - (29) Mulched Seeding
 - (67) Remove Pipe
 - (80) Protect
 - (85) Drain Tile Investigation
 - (95) Pavement Removal

CURVE DATA
 P.I. Sta. 52+54.27 "B"
 Delta = 14°21'35"
 R = 500.00 ft
 T = 62.99 ft
 L = 125.31 ft
 E = 3.95 ft
 S.E. = None



NOTE:
 The contractor shall locate all underground utilities and mailboxes prior to starting work and shall conduct his operation in such manner as to insure that those utilities and mailboxes will not be disturbed.

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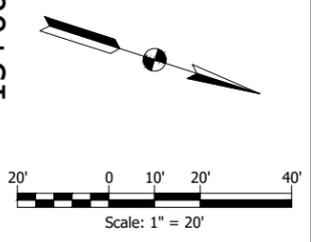
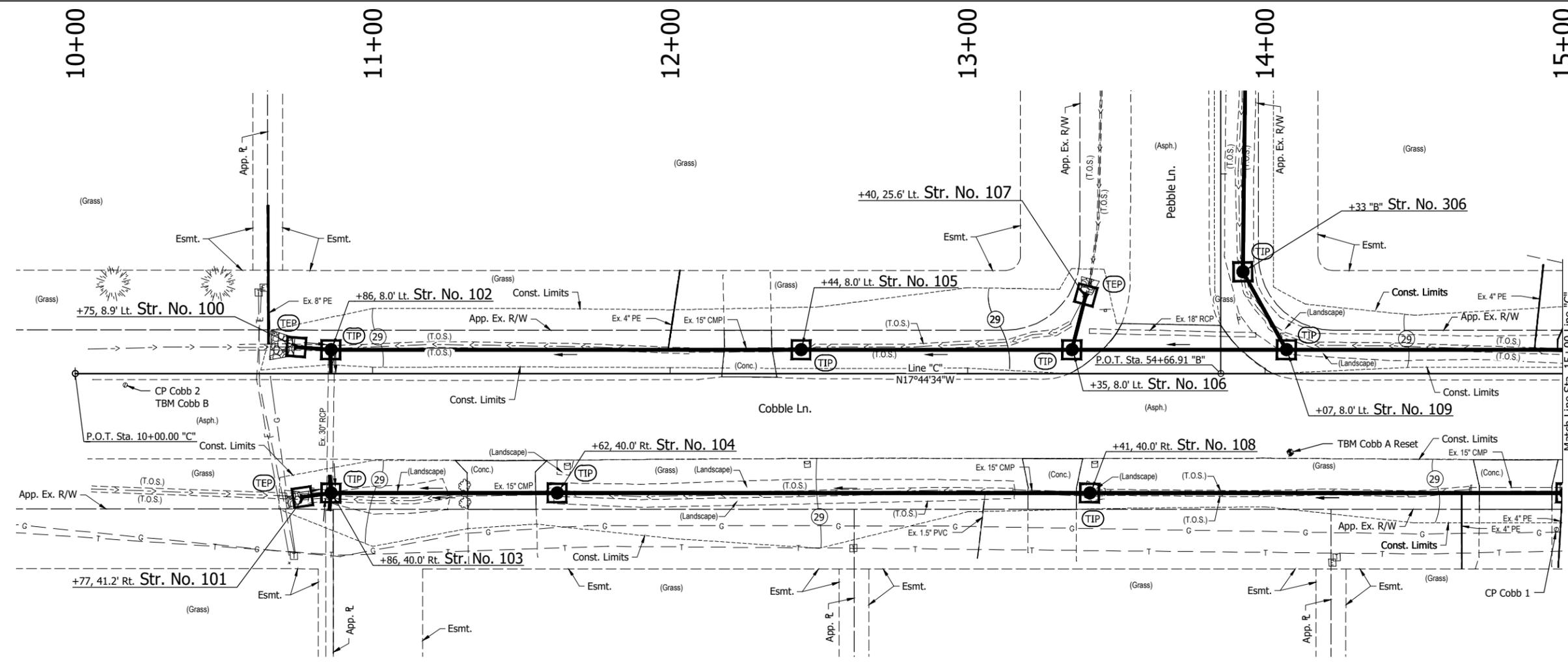
Kevin J. Siedlecki
 SIGNATURE
 12/4/23
 DATE

**FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I**

**PEBBLE LANE
 PLAN AND PROFILE**

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	8 OF 31

JAU - 3/3/2025 10:43 AM - U:\2018\201851 Porter Fieldstone\Code\Plan Set\Civil\185100EC_PL02.dwg (EC COBBLE_01)



- LEGEND:**
- TEP Temporary End Section Protection
 - TIP Temporary Inlet Protection
 - 29 Mulched Seeding

NOTE:
Concrete washout shall be provided at location of Contractor's choosing and with the approval of the Owner or their designated representative.

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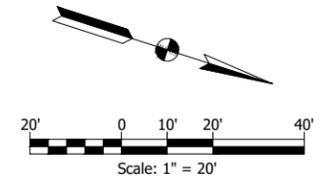
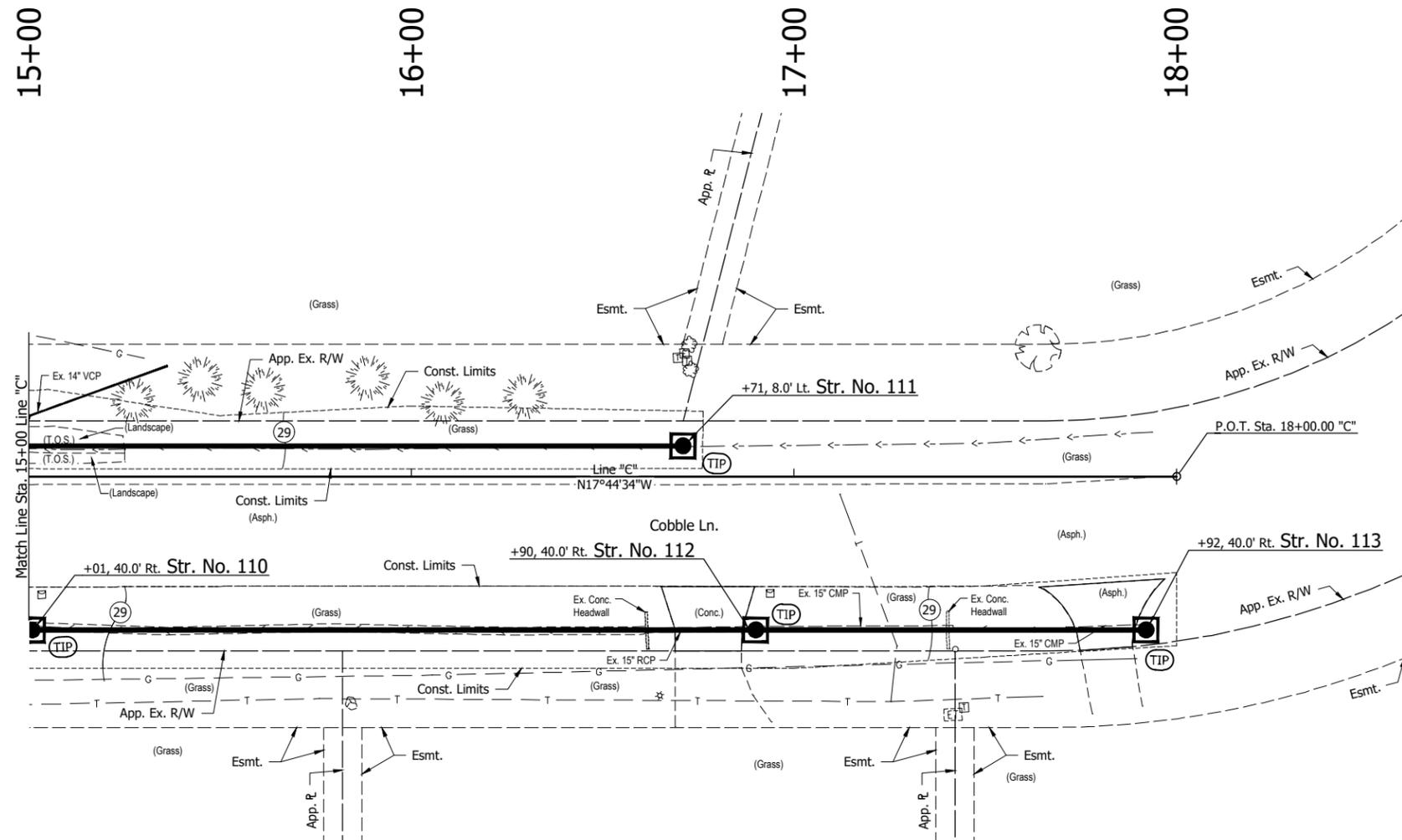
Kevin Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

COBBLE LANE
EROSION CONTROL PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 201851.10
	VERTICAL SCALE	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	9 OF 31

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- LEGEND:**
- (TEP) Temporary End Section Protection
 - (TIP) Temporary Inlet Protection
 - (29) Mulched Seeding

NOTE:
Concrete washout shall be provided at location of Contractor's choosing and with the approval of the Owner or their designated representative.

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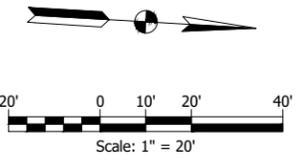
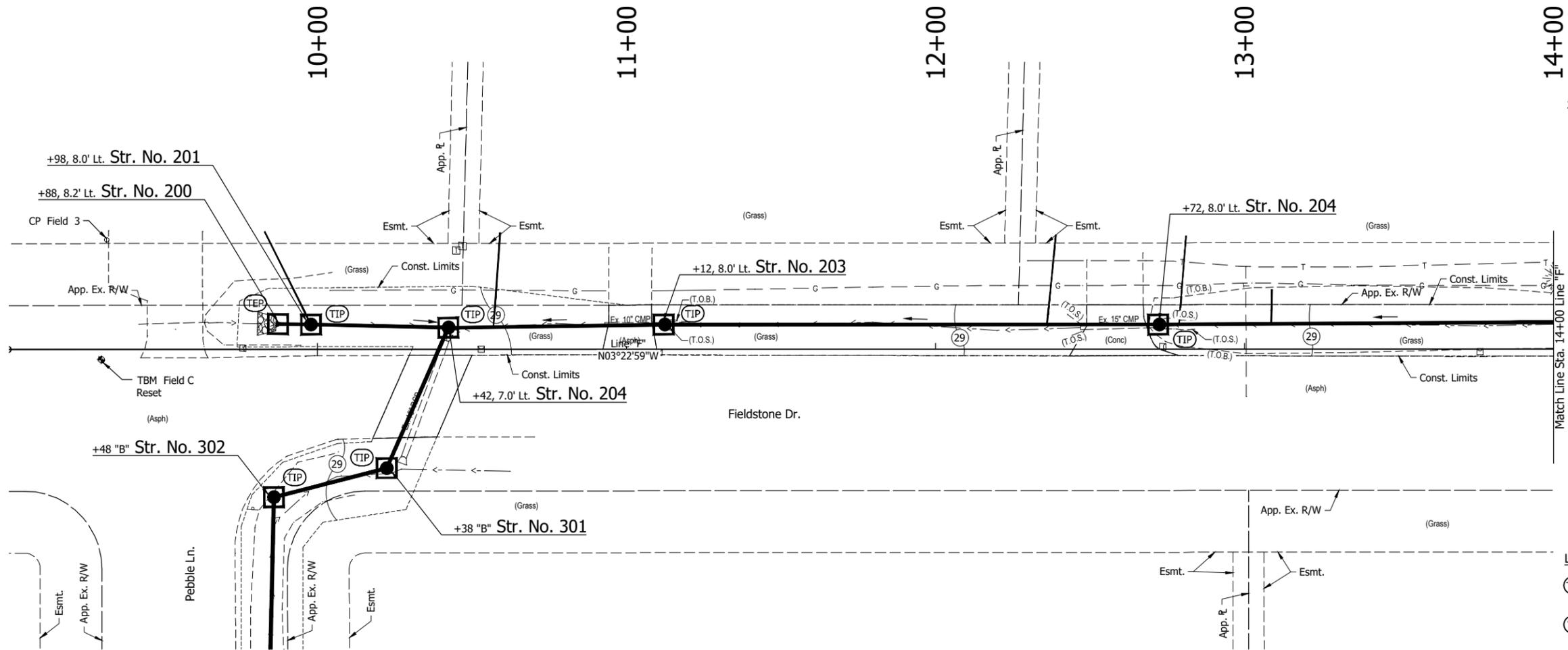
Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

**COBBLE LANE
EROSION CONTROL PLAN**

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 201851.10
	VERTICAL SCALE ----	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	10 OF 31

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- LEGEND:**
- TEP Temporary End Section Protection
 - TIP Temporary Inlet Protection
 - 29 Mulched Seeding

NOTE:
Concrete washout shall be provided at location of Contractor's choosing and with the approval of the Owner or their designated representative.

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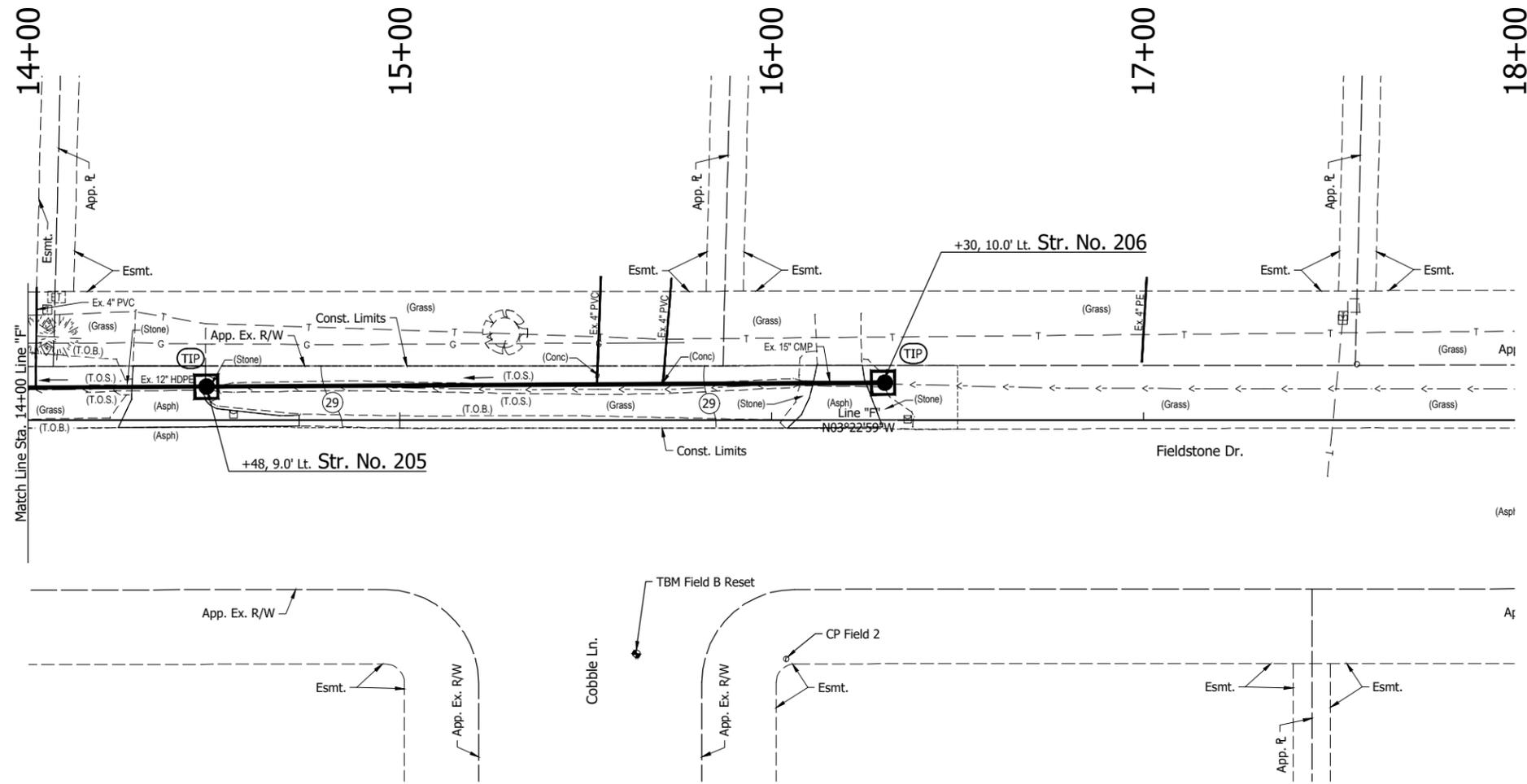
Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

FIELDSTONE DRIVE
EROSION CONTROL PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE	PROJECT NUMBER 201851.10
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	11 OF 31

JAU - 3/3/2025 10:42 AM - U:\2018\201851 Porter Fieldstone\Plan Set\Civil\185100EC_PL05.dwg (EC FIELDSTONE_02)



- LEGEND:**
-  Temporary End Section Protection
 -  Temporary Inlet Protection
 -  Mulched Seeding

NOTE:
Concrete washout shall be provided at location of Contractor's choosing and with the approval of the Owner or their designated representative.

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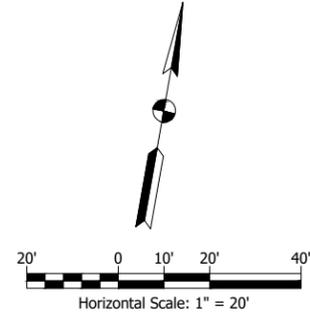
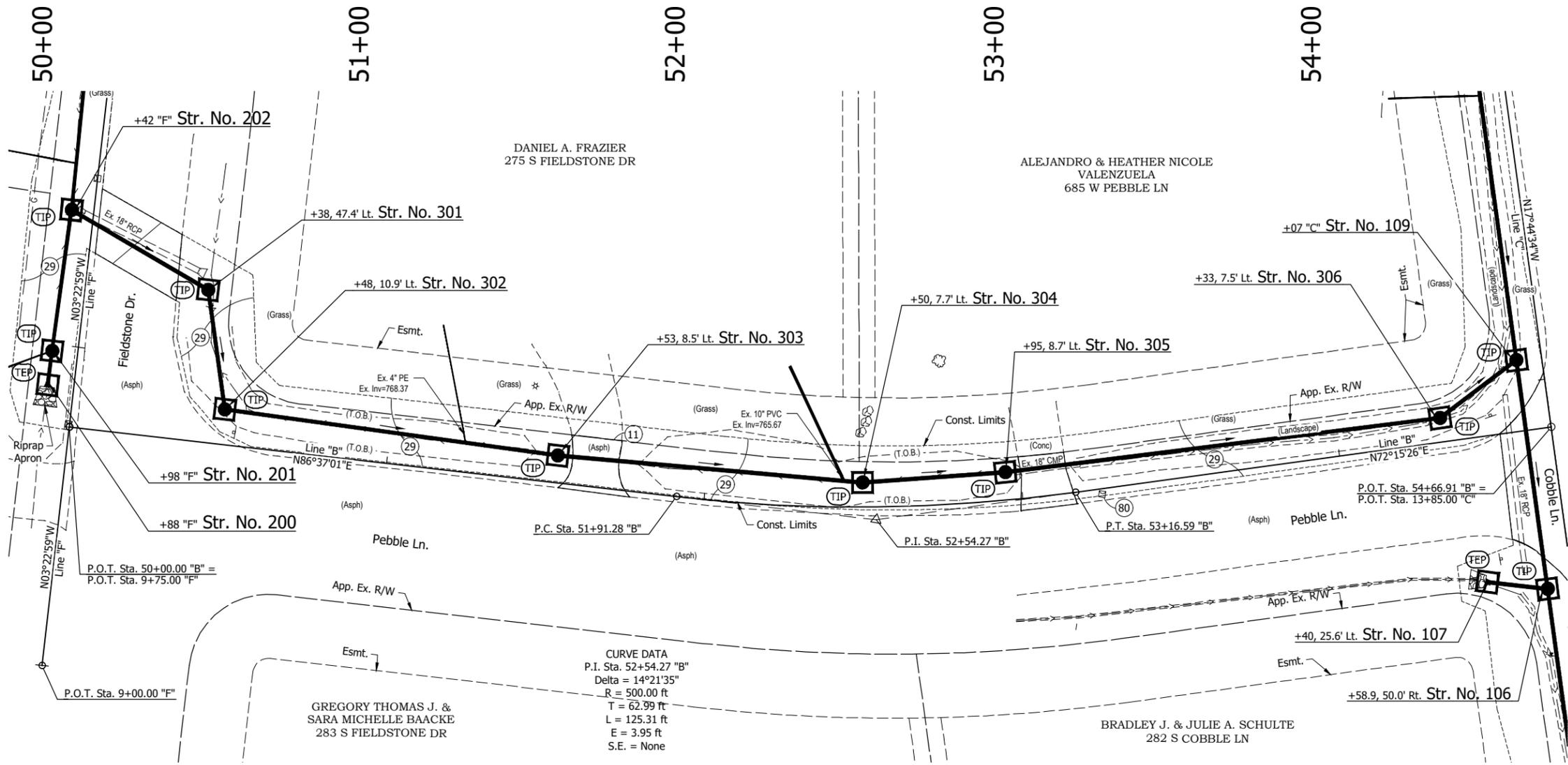


Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

FIELDSTONE DRIVE
EROSION CONTROL PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE	PROJECT NUMBER 201851.10
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	12 OF 31



- LEGEND:**
- (TEP) Temporary End Section Protection
 - (TIP) Temporary Inlet Protection
 - (29) Mulched Seeding

NOTE:
Concrete washout shall be provided at location of Contractor's choosing and with the approval of the Owner or their designated representative.

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CURVE DATA
P.I. Sta. 52+54.27 "B"
Delta = 14°21'35"
R = 500.00 ft
T = 62.99 ft
L = 125.31 ft
E = 3.95 ft
S.E. = None

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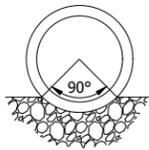


Kevin J. Siedlecki
SIGNATURE DATE 12/4/23

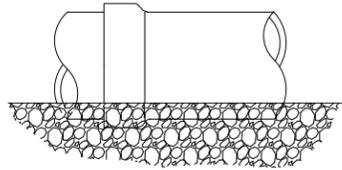
**FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I**

**PEBBLE LANE
EROSION CONTROL PLAN**

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 201851.10
VERTICAL SCALE	SURVEY BOOK	SHEETS
DATE FEBRUARY 2025	13 OF 31	
DRAWN: JAJ	CHECKED: KJS	



The lower 90° arc of the barrel of the pipe should be in firm contact with bedding material.



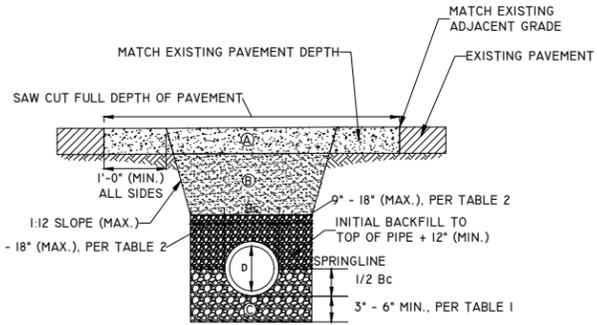
Small excavations should be made for the bells. These should be no larger than necessary to clear the bell.

SPECIAL NOTE:

These trench and bedding details are for pipe structural requirements only. The contractor is solely responsible for safety of operations. The contractor shall slope trench walls, provide protective work boxes, and/or shore and brace all excavations as the contractor determines necessary for safety of operations, and in conformance to OSHA Regulation 29 C.F.R. 1926, Subpart P for trench safety systems.

FLEXIBLE PIPE BEDDING DETAIL

Not to Scale



LEGEND

- Ⓐ FULL DEPTH HMA REPAIR, SEE DETAIL.
- Ⓑ TRENCH BACKFILL, BACKFILL IN 8" LIFTS (MAX.) & COMPACT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- Ⓒ CRUSHED STONE OR GRAVEL INDOT NO. 5, NO. 8, OR NO. 9 COARSE AGGREGATE WITH A 50% MECHANICAL CRUSH COUNT.

Bc PIPE OUTSIDE DIAMETER

NOTES:

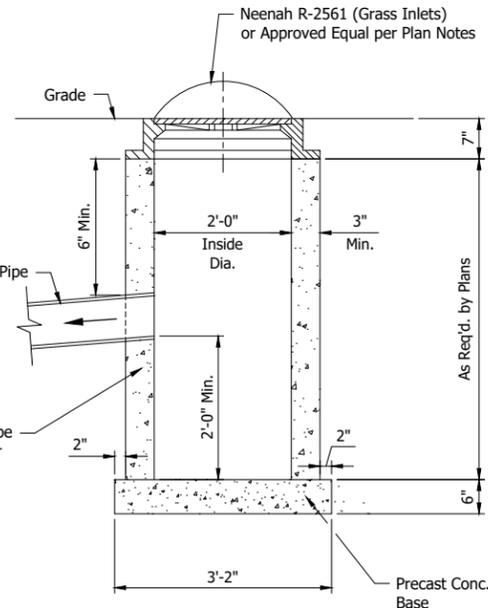
1. ALL BEDDING, INITIAL BACKFILL, & FINAL BACKFILL SHALL BE INSTALLED IN 8" LIFTS (MAX.) & COMPACTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. BEDDING & INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED AROUND THE HAUNCH AND SIDES OF THE PIPE TO ENSURE PROPER COMPACTION AND COMPLETE FILLING OF ALL VOIDS.

TABLE 1	
DEPTH OF BEDDING BELOW PIPE	
D	BEDDING (MIN.)
D < 24IN.	3 IN.
24 IN. ≤ D ≤ 60 IN.	4 IN.
D > 60 IN.	6 IN.

TABLE 2	
WIDTH OF TRENCH, EACH SIDE OF PIPE	
D	WIDTH (MAX.)
D < 24IN.	9 IN.
24 IN. ≤ D ≤ 60 IN.	12 IN.
D > 60 IN.	18 IN.

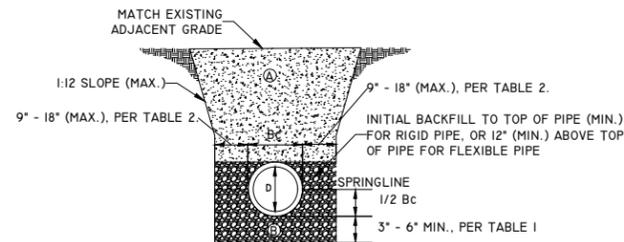
ROAD CUT REPAIR DETAIL

Not to Scale



CATCH BASIN DETAIL

Scale: 3/4" = 1'-0"



LEGEND

- Ⓐ FOR FINAL BACKFILL, SUITABLE EXCAVATED MATERIAL WILL BE ACCEPTABLE. BACKFILL IN 12" LAYERS SOLIDLY TAMPED.
- Ⓑ CRUSHED STONE OR GRAVEL INDOT NO. 5, NO. 8, NO. 9, NO. 53, OR NO. 73 COMPACTED AGGREGATE WITH A 50% MECHANICAL CRUSH COUNT.

Bc PIPE OUTSIDE DIAMETER

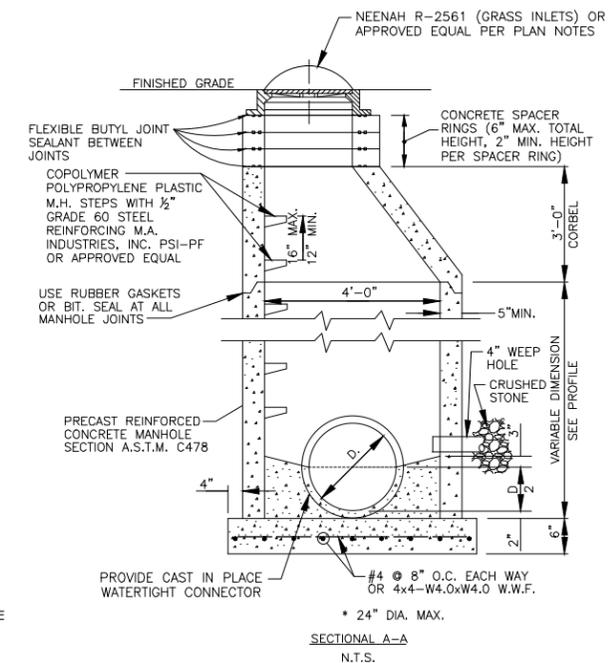
NOTES:

1. ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 4" TO 6" LIFTS AND MECHANICALLY TAMPED. BEDDING AND INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED AROUND THE HAUNCH AND SIDES OF THE PIPE TO ENSURE PROPER COMPACTION AND COMPLETE FILLING OF ALL VOIDS.
2. SEE STANDARD DRAWINGS VII-A4 AND VII-A5 FOR ADDITIONAL REQUIREMENTS WHEN PIPE IS INSTALLED UNDER PROPOSED PAVEMENT OR NEAR PROPOSED OR EXISTING PAVEMENT.

TABLE 1.		TABLE 2.	
DEPTH OF BEDDING BELOW PIPE		WIDTH OF TRENCH, EACH SIDE OF PIPE	
D	BEDDING (MIN.)	d	WIDTH (MAX.)
d ≤ 24IN.	3 IN.	d ≤ 24IN.	9 IN.
24 IN. ≤ d ≤ 60 IN.	4 IN.	24 IN. ≤ d ≤ 60 IN.	12 IN.
d ≥ 60 IN.	6 IN.	d ≥ 60 IN.	18 IN.

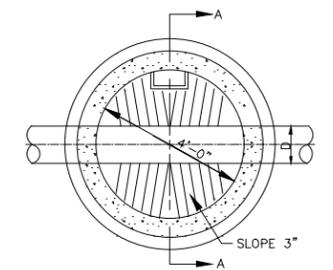
PIPE BEDDING AND BACKFILL DETAIL

Not to Scale



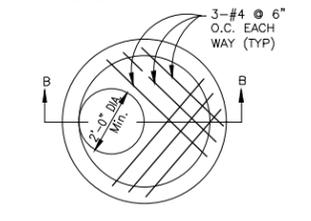
STORM MANHOLE TYPE 1 DETAIL

Not to Scale



SECTIONAL PLAN N.T.S.

NOTE: WHERE DIRECTED BY ENGINEER COVER SHALL BE OF NON-ROCKING TYPE



PLAN

GENERAL CONSTRUCTION REQUIREMENTS
 ALL PIPES SHALL HAVE A SMOOTH FINISH.
 ALL MANHOLE JOINTS SHALL BE WATER-TIGHT AND CONSTRUCTED IN ACCORDANCE WITH ASTM SPEC. C-443-70.
 THE WEEP HOLE SHALL BE PLUGGED WITH CONCRETE GROUT AFTER THE COMPACTION HAS BEEN COMPLETED FOR THE TRENCH BACKFILL MATERIAL. THE BASE SHALL BE PLACED ON COMPACTED GRAVEL OR STONE.

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LFA
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REGISTERED PROFESSIONAL ENGINEER
 No. 11100677
 STATE OF INDIANA

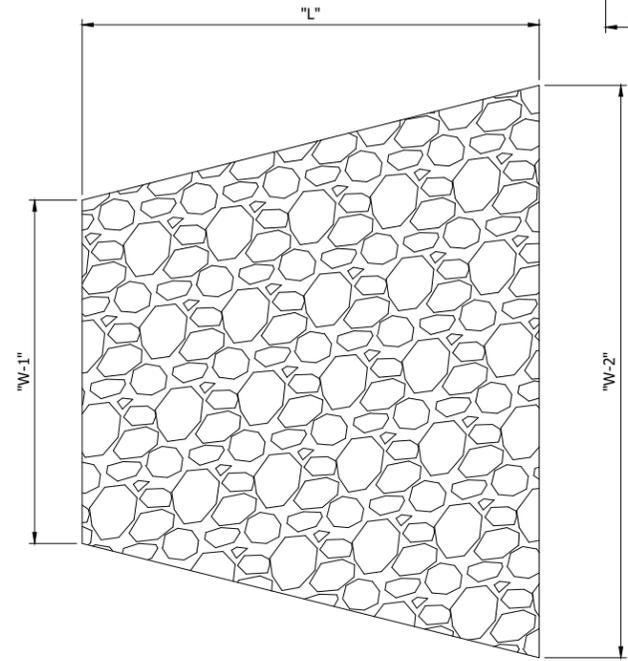
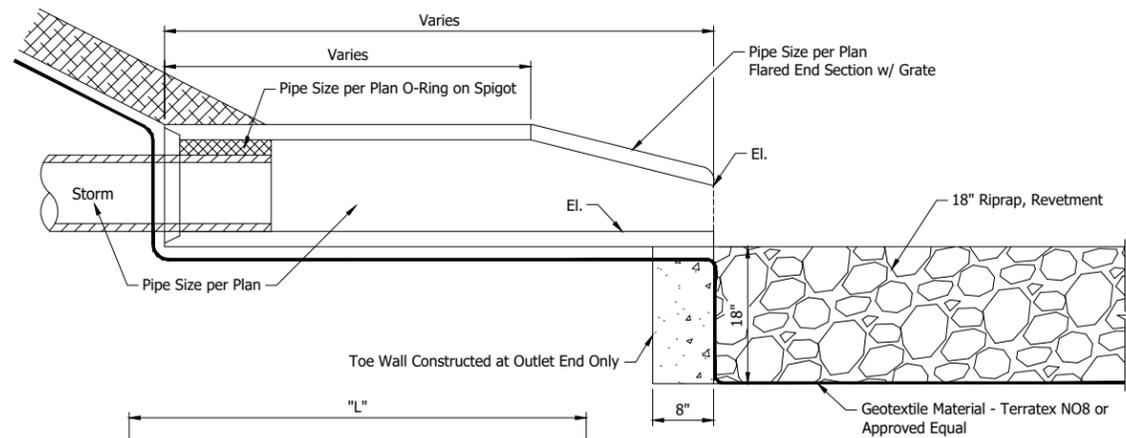
Kerby Siedlecki
 SIGNATURE DATE 12/4/23

FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I

CIVIL DETAILS

REVISIONS	HORIZONTAL SCALE AS SHOWN	PROJECT NUMBER
	VERTICAL SCALE	201851.10
DRAWN: RHK	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE	14 OF 31
	FEBRUARY 2025	

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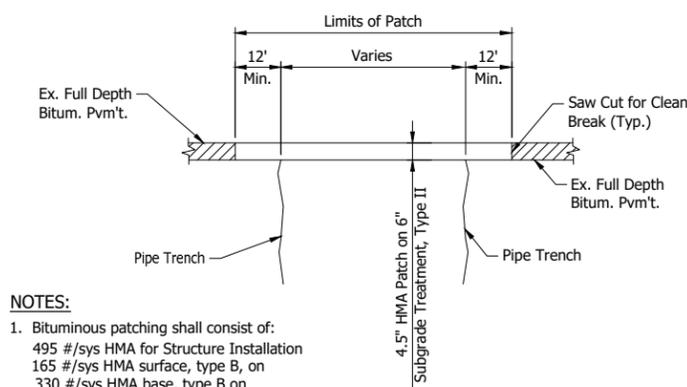


RIPRAP APRON DETAIL
Scale: 1" = 1'-0"

RIPRAP APRON DIMENSIONS			
PIPE DIA.	"L"	"W-1"	"W-2"
15"	5'	3.75'	6.25'
18"	6'	4.5'	7.5'
24"	8'	6'	10'

PIPE DIA.	END SECTION THICK. (IN.)	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	W (±2")	APPROX. SLOPE	BODY
12"	.064	6"	6"	6"	21"	24"	2 1/2":1	1 PC.
15"	.064	7"	8"	6"	26"	30"	2 1/2":1	1 PC.
18"	.064	8"	10"	6"	31"	36"	2 1/2":1	1 PC.
21"	.064	9"	12"	6"	36"	42"	2 1/2":1	1 PC.
24"	.064	10"	13"	6"	41"	48"	2 1/2":1	1 PC.
30"	.079	12"	16"	8"	51"	60"	2 1/2":1	1 PC.
36"	.079	14"	19"	9"	60"	72"	2 1/2":1	2 PC.

WHEN DIA. >36", APPROVED DESIGN BY PORTER COUNTY ENGINEER IS REQUIRED.

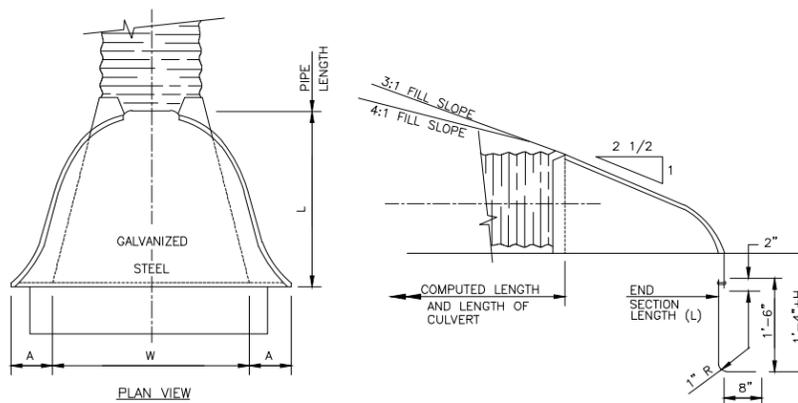


NOTES:

- Bituminous patching shall consist of:
495 #/sys HMA for Structure Installation
165 #/sys HMA surface, type B, on
330 #/sys HMA base, type B on
Subgrade treatment, type II.
- New surface is to be finished flush and be sloped at the same rate as the existing surface.
- Existing pavement is to be saw cut for a clean break.
- All joints shall be saw cut to a depth of 4" minimum. Before final removal is performed, all joints between existing pavement and new bituminous patch shall be smooth and straight (concrete & asphalt pavement).
- Pavement patch shall be smooth and level. No more than 1/4" variation from a straight edge 5'-0" in length shall be allowed. Smooth rideability must be maintained.
- For pavement restoration the contractor shall replace the asphalt and base material removed within the pipe trench area and a minimum of 1' each side (as shown in the above detail) with bituminous patch as indicated in note 1 above. The contractor is responsible for controlling the width of his trench and therefore the costs required with pavement restoration. The contractor shall make sure that all costs associated with pavement restoration are included in the appropriate bid items for "hot mix asphalt surface, base, 4 1/2" inches" and "subgrade treatment, type II".

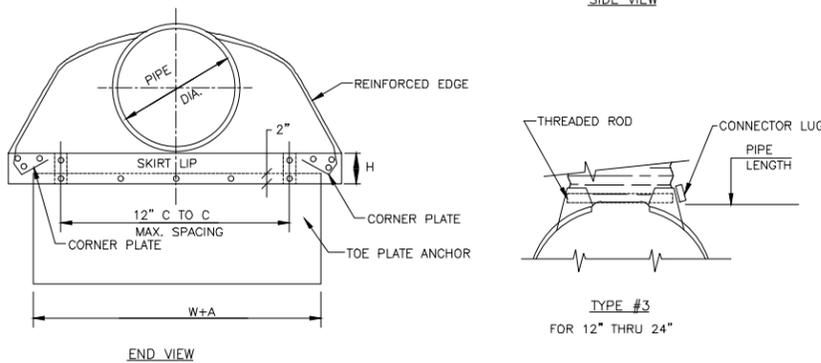
PAVEMENT PATCH DETAIL

Scale: 1/2" = 1'-0"



METAL END SECTION DETAIL

Not to Scale



CONCRETE END SECTION DETAIL

Not to Scale

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PH. (574) 234-3167

REGISTERED PROFESSIONAL ENGINEER
No. 11100677
STATE OF INDIANA
PORTER COUNTY

Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

CIVIL DETAILS

REVISIONS	HORIZONTAL SCALE AS SHOWN VERTICAL SCALE	PROJECT NUMBER 201851.10
DRAWN: RHK	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	15 OF 31

NOTE:
Contractor shall adhere to all Porter County Erosion Control Standards and Details.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT NOTES:

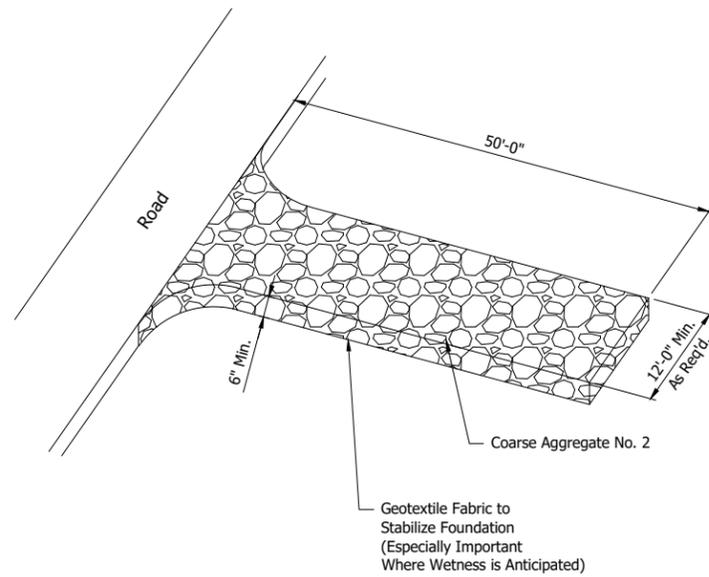
The contractor shall provide a stable construction entrance at the points where construction traffic will drive onto an existing road or will leave the defined construction area. This entrance will serve the purpose to prevent soil from leaving the construction area. Restrict all lot access to this entrance/exit. Refer to the contract documents and specifications for additional information.

Installation:

1. Remove all vegetation and other objectionable material from the foundation area.
2. Grade the foundation and crown for positive drainage.
3. Install a culvert pipe under the pad if needed to maintain proper public road drainage.
4. place geotextile fabric on the grade foundation to improve stability.
5. Place aggregate (INDOT No. 2) to the dimensions and grade shown in the construction plans, leaving the surface smooth and sloped for drainage.
6. Where possible, divert all storm water runoff and drainage from the temporary construction ingress/egress pad to a sediment trap or basin.

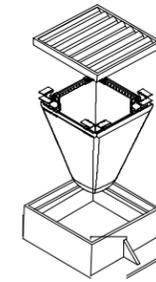
Maintenance:

1. Inspect daily.
2. Reshape pad as needed for drainage and runoff control.
3. Top-dress with clean aggregate as needed.
4. Immediately remove mud and sediment tracked or washed onto public roads.
5. Flushing should only be used if the water from the construction drive can be conveyed into a sediment trap or basin.

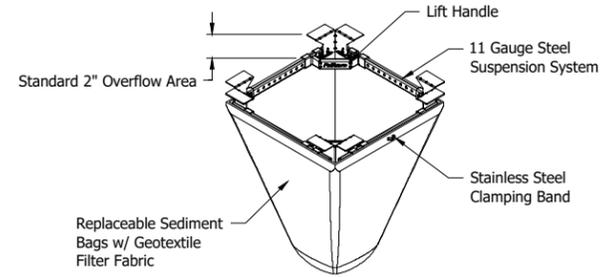


TEMPORARY CONSTRUCTION ENTRANCE/EXIT DETAIL

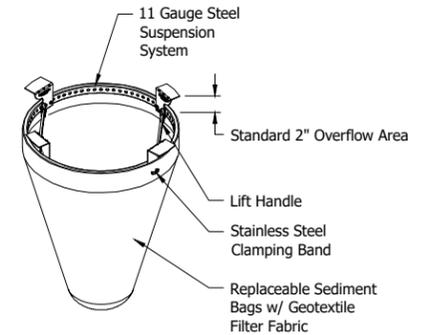
Not to Scale



Flexstorm Insert With IDOT Non-Woven Bag Distributed By: ADS and Manufactured By: Inlet And Pipe Protection, Inc 24137 W 111th St., Unit A Naperville, IL 60564 Ph: (866) 287-8655 Fax: (630) 355-3477 www.inletfilters.com Info. at inletfilters.com



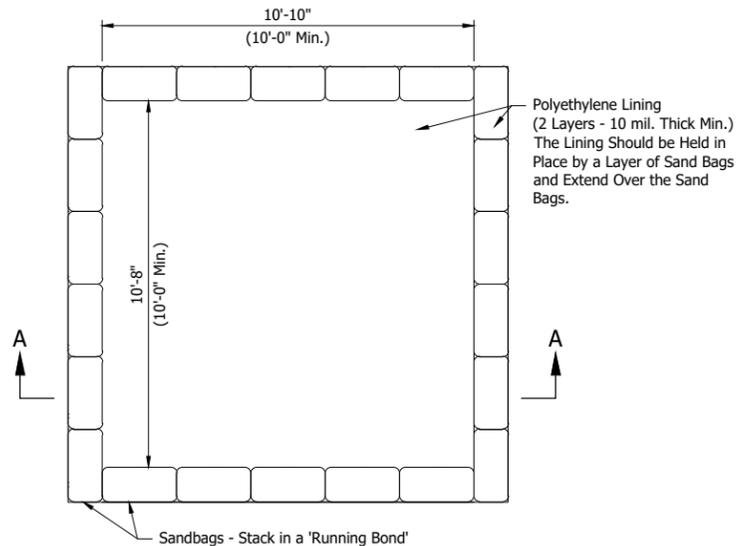
TYPICAL RECTANGULAR INLET FILTER



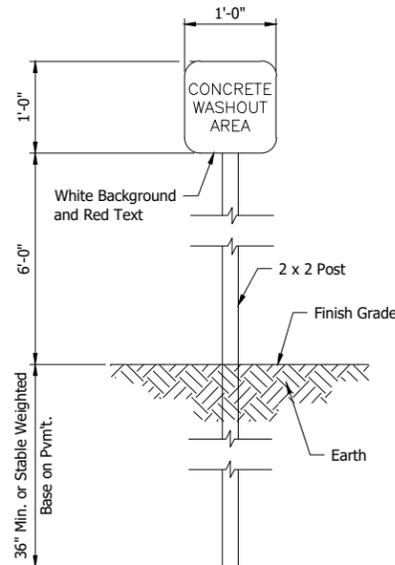
TYPICAL ROUND INLET FILTER

FLEXSTORM TEMPORARY INLET PROTECTION SEDIMENT FILTER

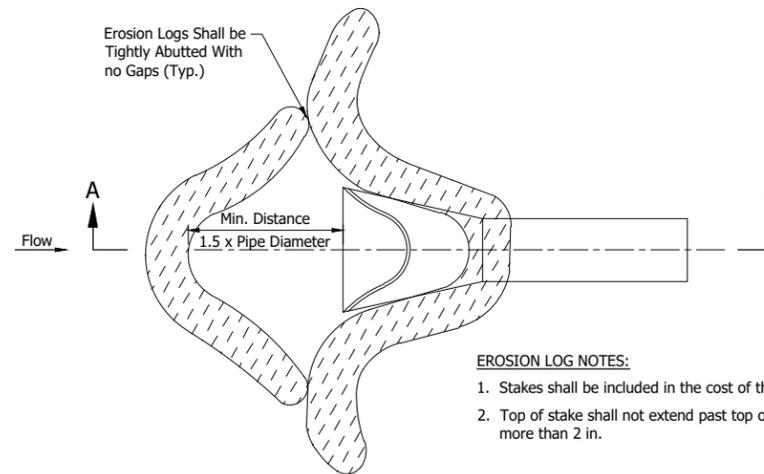
Not to Scale



PLAN VIEW



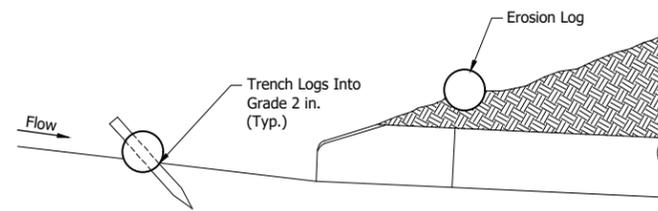
CONCRETE WASHOUT AREA



PLAN VIEW

EROSION LOG NOTES:

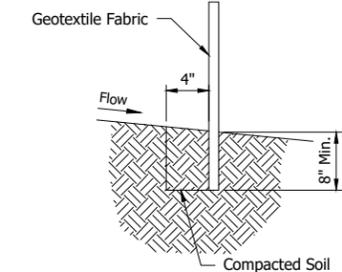
1. Stakes shall be included in the cost of the erosion logs.
2. Top of stake shall not extend past top of erosion log more than 2 in.



SECTION A-A (Not All Logs Shown)

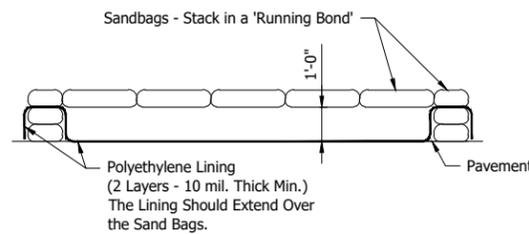
TEMPORARY FLARED END SECTION INLET PROTECTION

Not to Scale



SILT FENCE EMBEDMENT DETAIL

Not to Scale



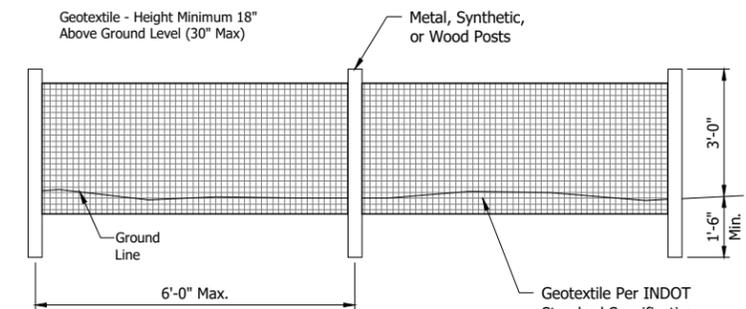
SECTION A-A

CONCRETE WASHOUT PIT

Not to Scale

NOTES:

1. The minimum interior dimension may be adjusted to fit the site. The structure's interior square footage of 100 ft.² must be maintained and the contractor shall submit any design alterations to the engineer.
2. Contractor may use prefabricated portable concrete washout systems/containers with a minimum sump capacity of 2 cyd.



SILT FENCE ELEVATION VIEW

Not to Scale

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LFA
LAWSON-FISHER ASSOCIATES P.C.
525 W. WASHINGTON AVENUE
SOUTH BEND, INDIANA 46601
PH. (574) 234-3167

REGISTERED PROFESSIONAL ENGINEER
No. 11100677
STATE OF INDIANA

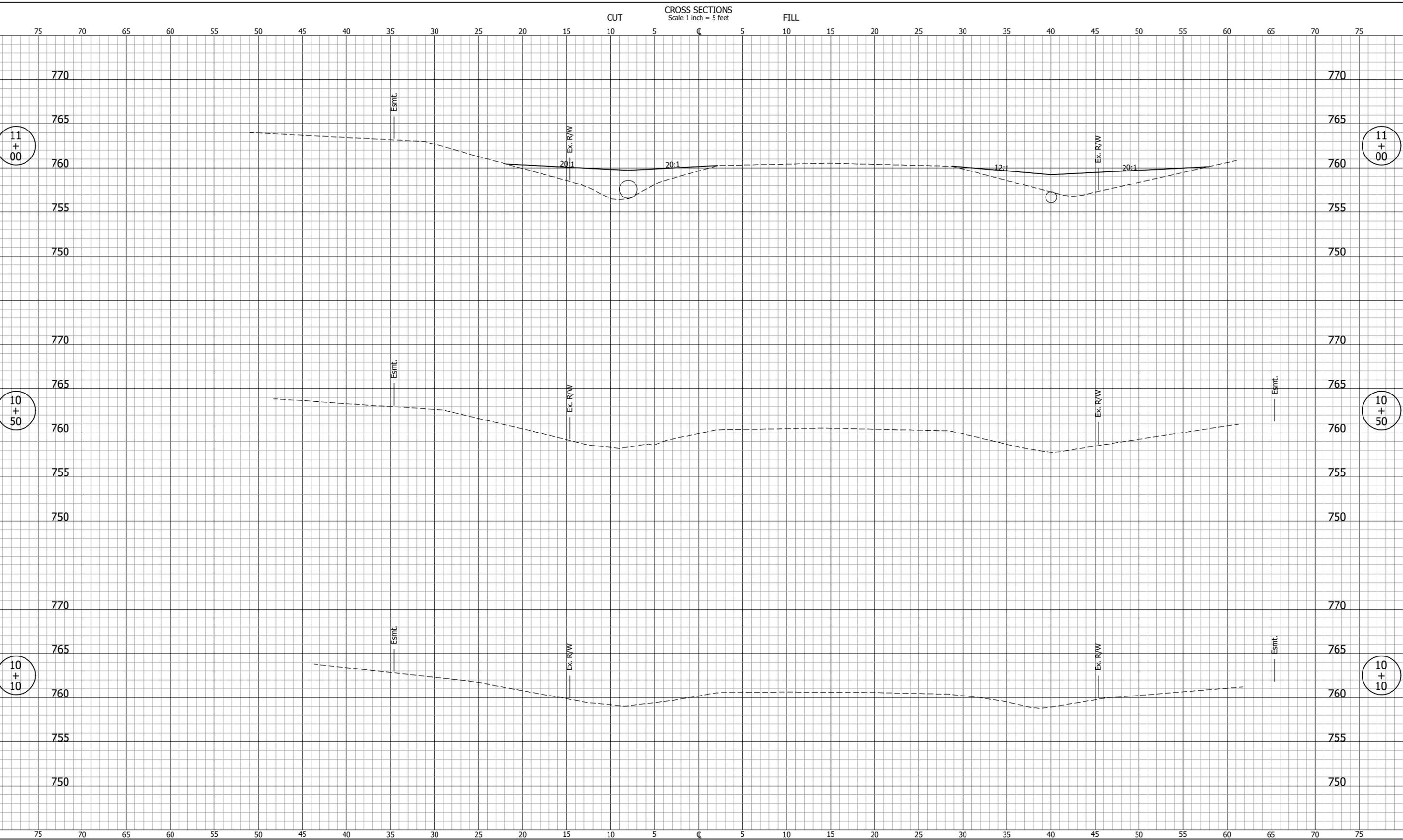
Kevin J. Siedlecki
SIGNATURE
12/4/23
DATE

FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

EROSION CONTROL DETAILS

REVISIONS	HORIZONTAL SCALE AS SHOWN VERTICAL SCALE	PROJECT NUMBER 201851.10
DRAWN: RHK	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	16 OF 31

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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

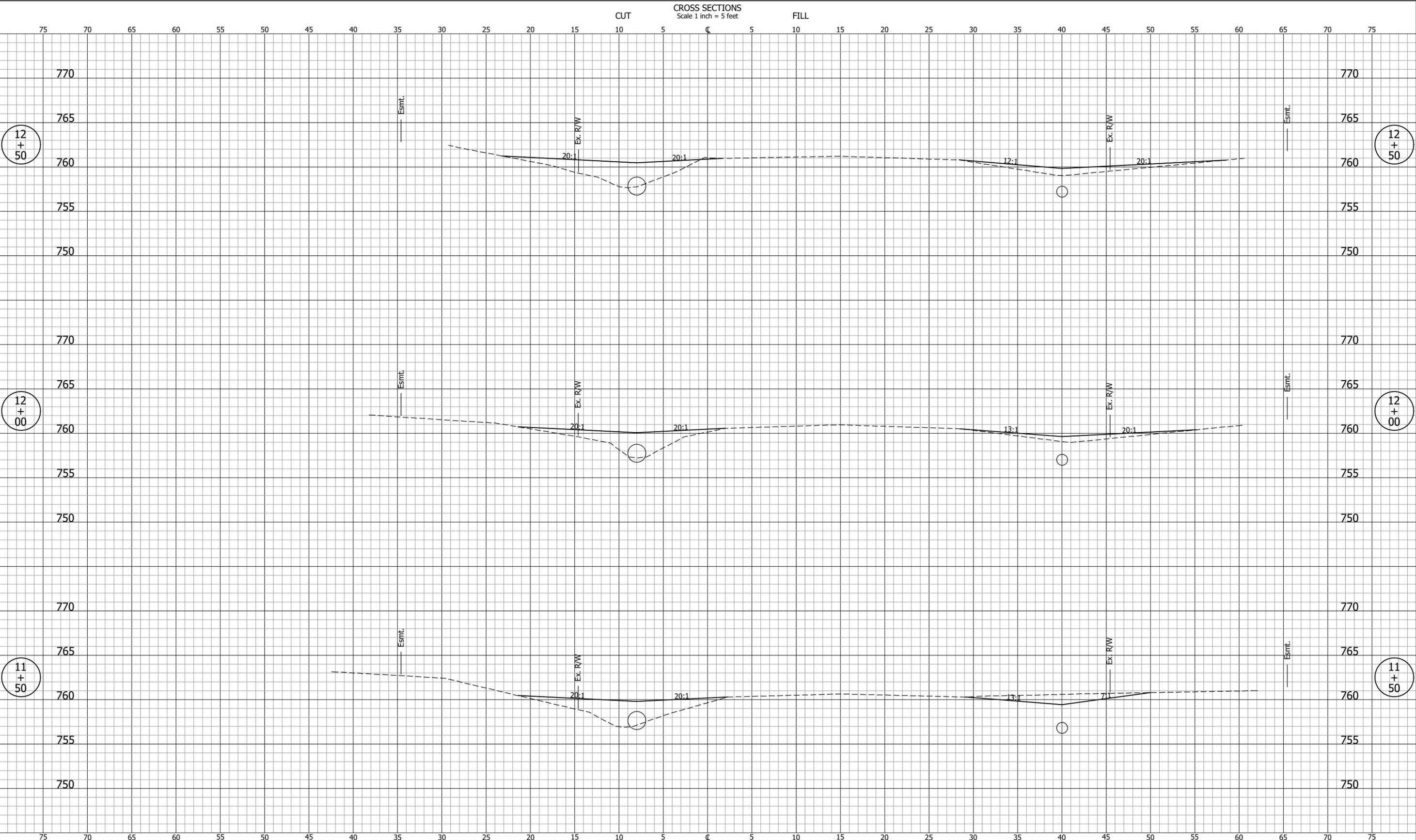
CROSS SECTIONS
LINE "C"

REVISIONS
DRAWN: GDH
CHECKED: KJS

HORIZONTAL SCALE
1" = 5'
VERTICAL SCALE
1" = 5'
SURVEY BOOK
DATE
FEBRUARY 2025

PROJECT NUMBER
201851.10
SHEETS
17 OF 31

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FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I

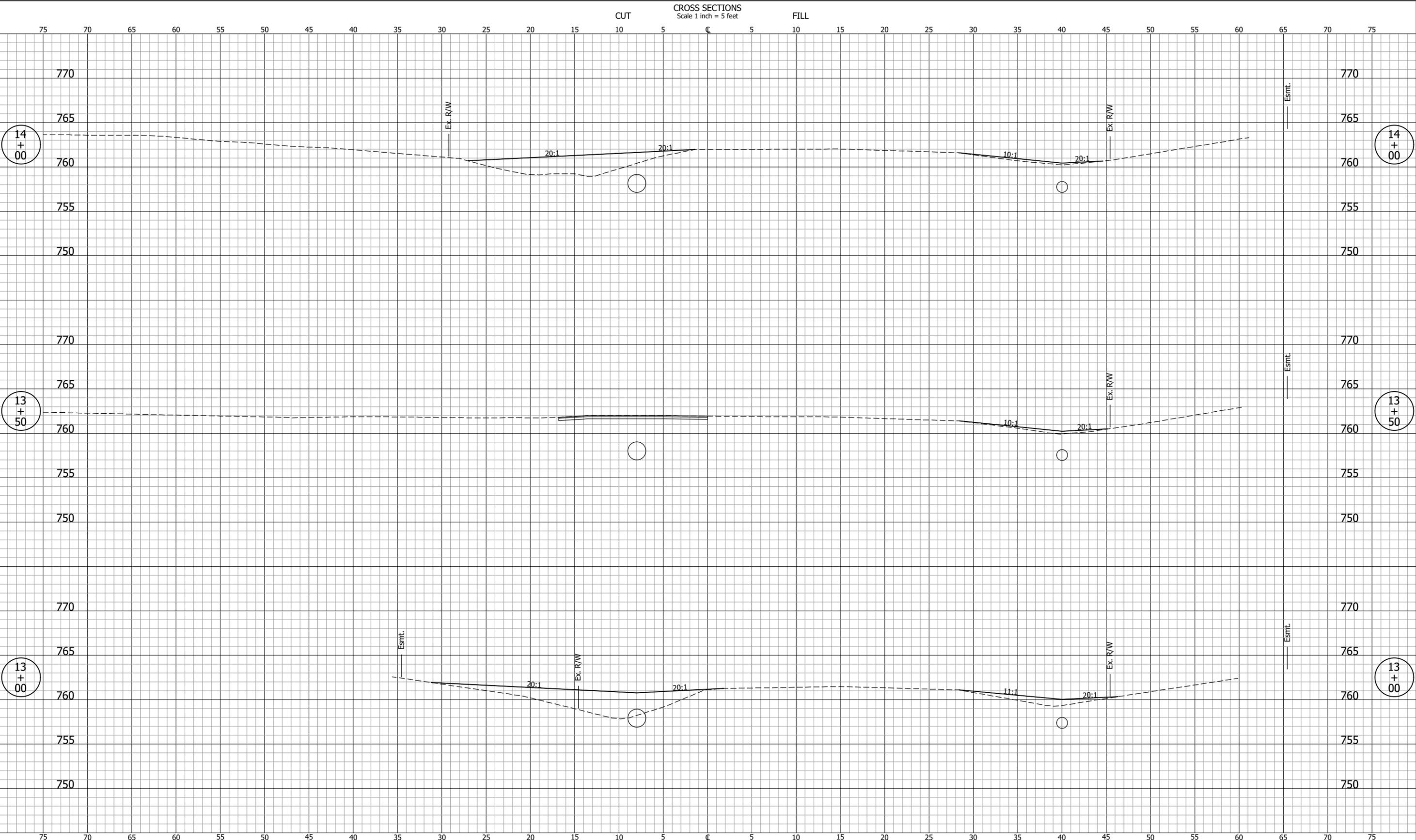
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REVISIONS
DRAWN: GDH
CHECKED: KJS

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VERTICAL SCALE 1" = 5'
SURVEY BOOK
DATE FEBRUARY 2025

PROJECT NUMBER 201851.10
SHEETS 18 OF 31

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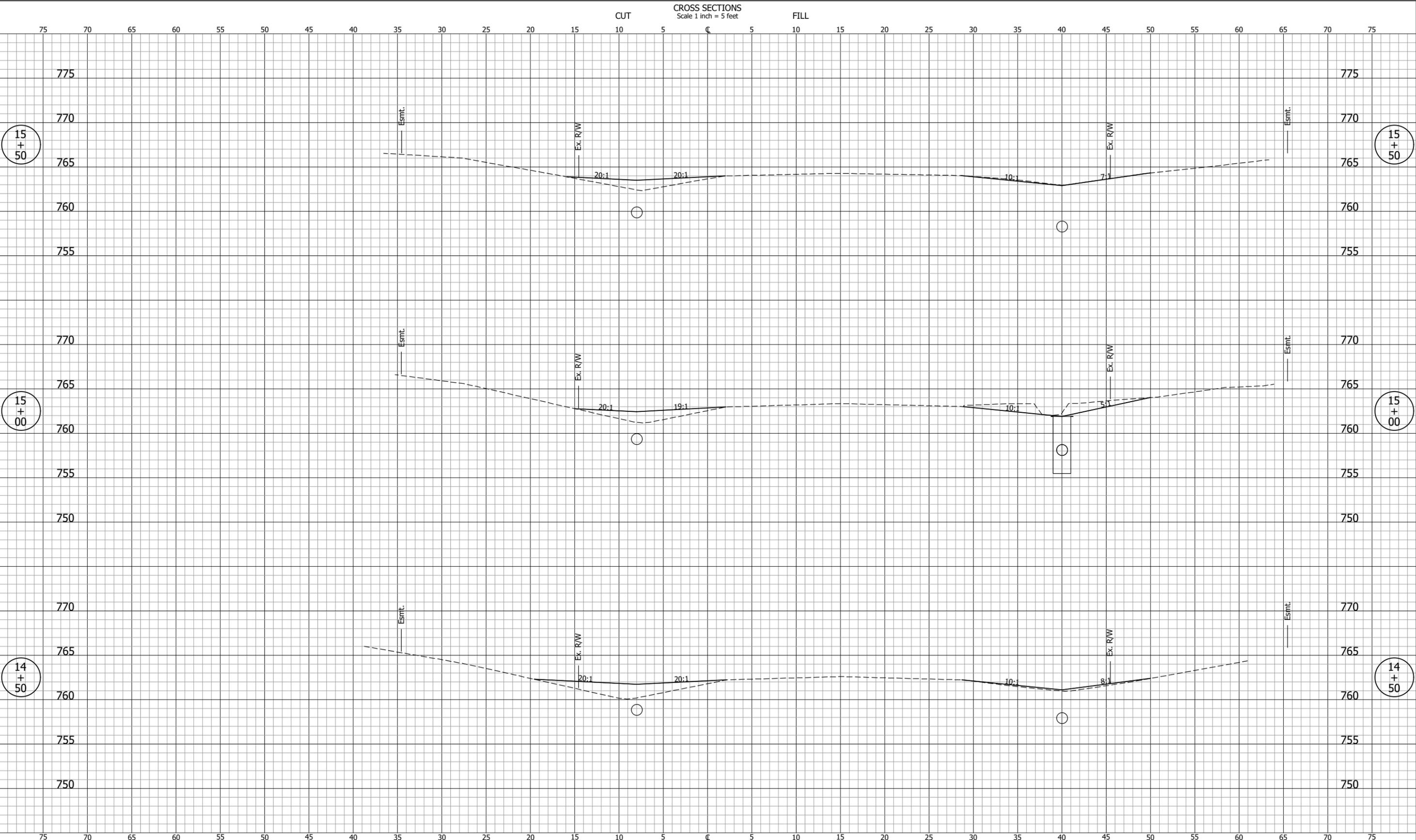
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**FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I**

**CROSS SECTIONS
LINE "C"**

REVISIONS	HORIZONTAL SCALE 1" = 5'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	SHEETS 19 OF 31
DRAWN: <u>GDH</u>	SURVEY BOOK	DATE
CHECKED: <u>KJS</u>	FEBRUARY 2025	

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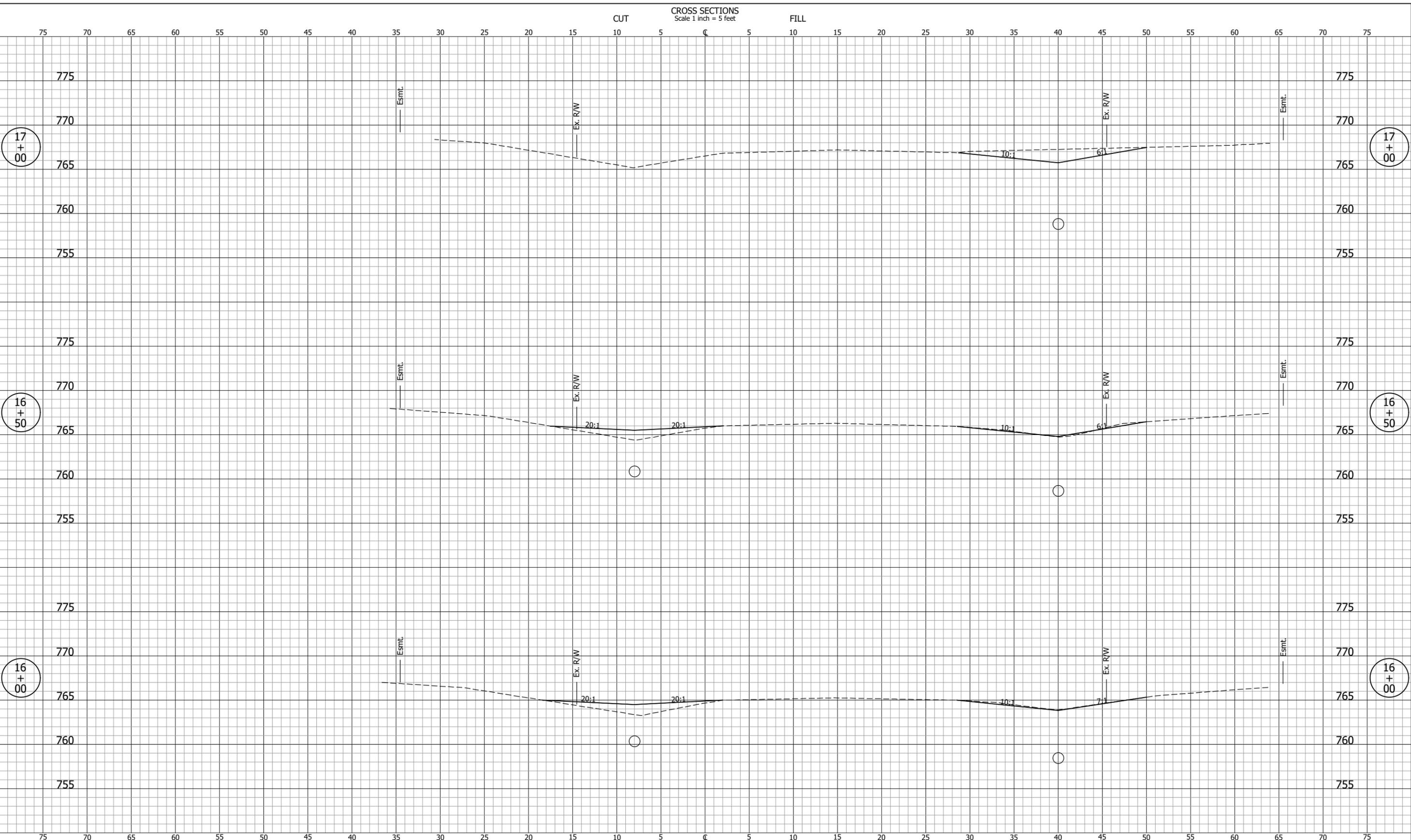
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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

**CROSS SECTIONS
LINE "C"**

REVISIONS	HORIZONTAL SCALE 1" = 5'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	SHEETS 20 OF 31
DRAWN: GDH	SURVEY BOOK	DATE
CHECKED: KJS	FEBRUARY 2025	

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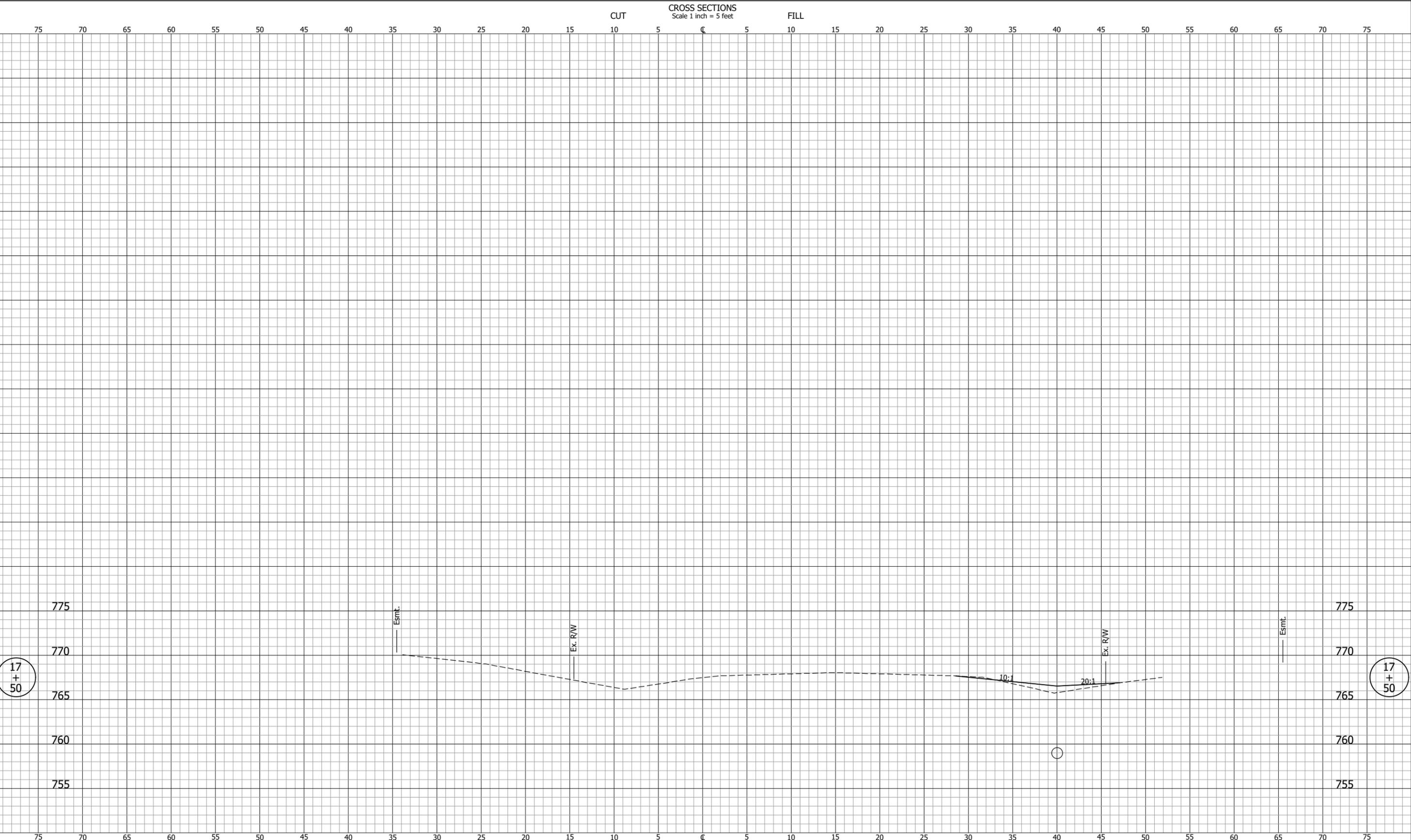
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FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I

CROSS SECTIONS
 LINE "C"

REVISIONS	HORIZONTAL SCALE 1" = 5'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	21 OF 31

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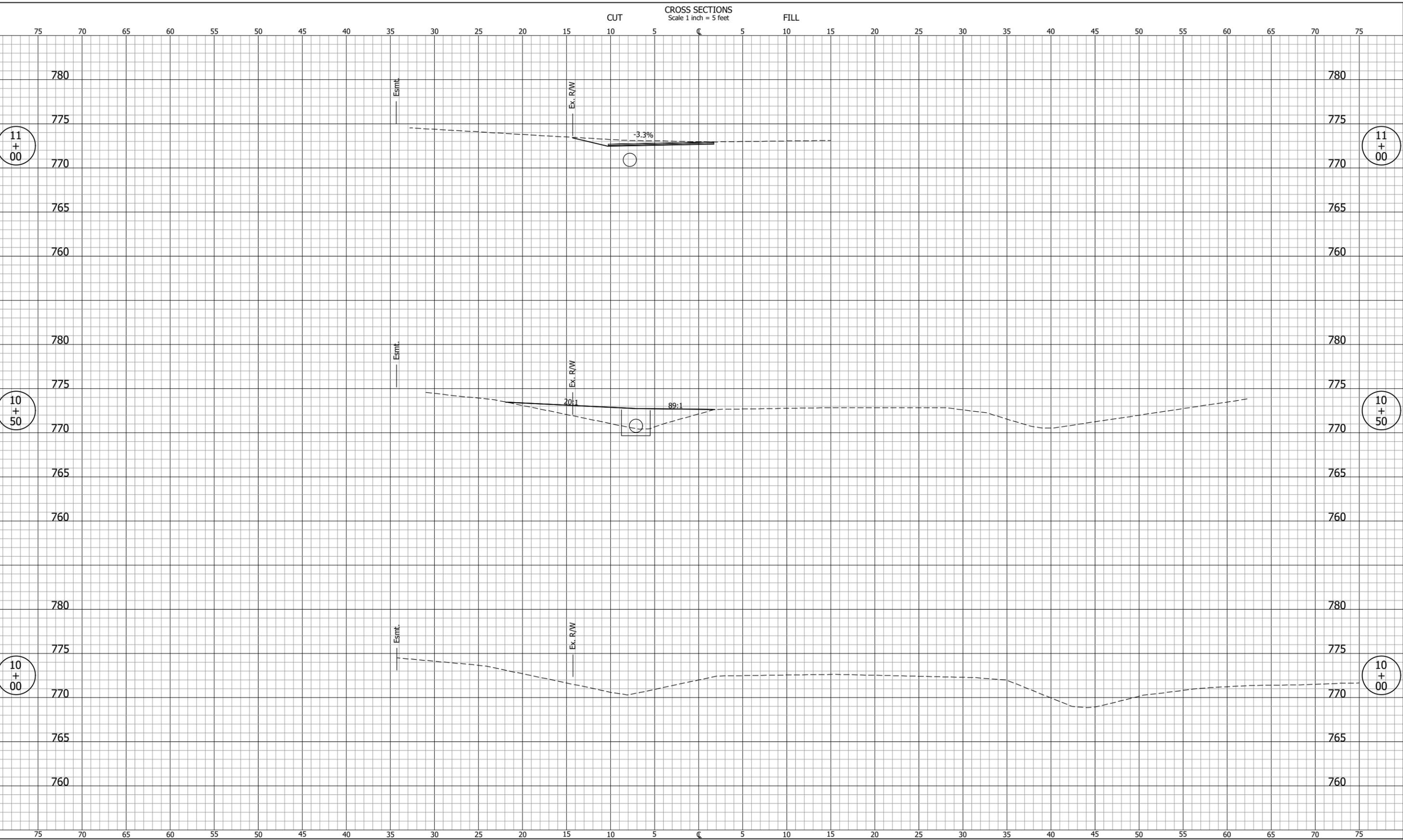
SIGNATURE	DATE

**FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I**

**CROSS SECTIONS
 LINE "C"**

REVISIONS	HORIZONTAL SCALE 1" = 5'	PROJECT NUMBER 201851.10	
	VERTICAL SCALE 1" = 5'		
DRAWN: GDH	SURVEY BOOK	SHEETS	
CHECKED: KJS	DATE FEBRUARY 2025	22	31

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FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I

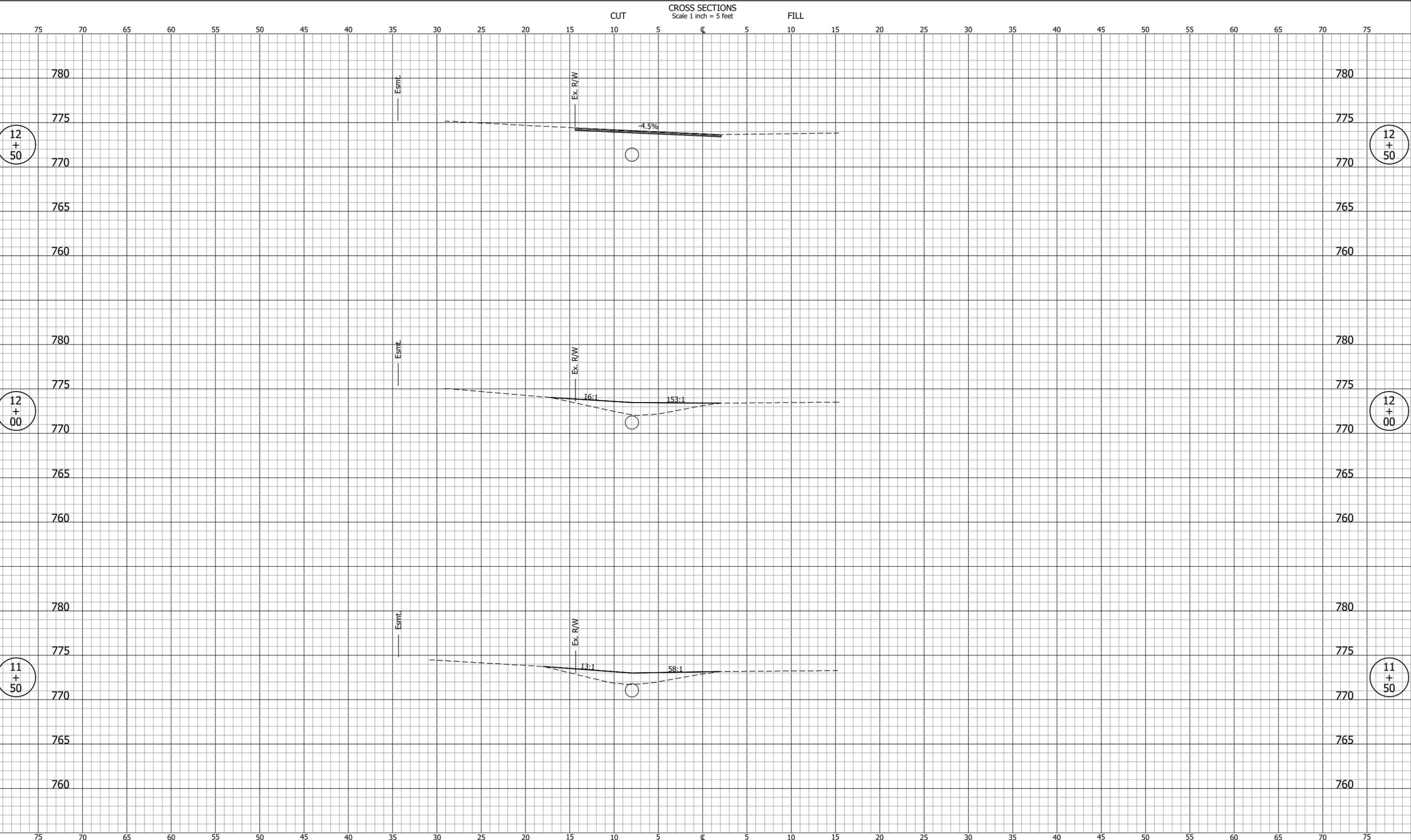
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REVISIONS
 DRAWN: GDH
 CHECKED: KJS

HORIZONTAL SCALE
 1" = 5'
 VERTICAL SCALE
 1" = 5'
 SURVEY BOOK
 DATE
 FEBRUARY 2025

PROJECT NUMBER
 201851.10
 SHEETS
 23 OF 31

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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

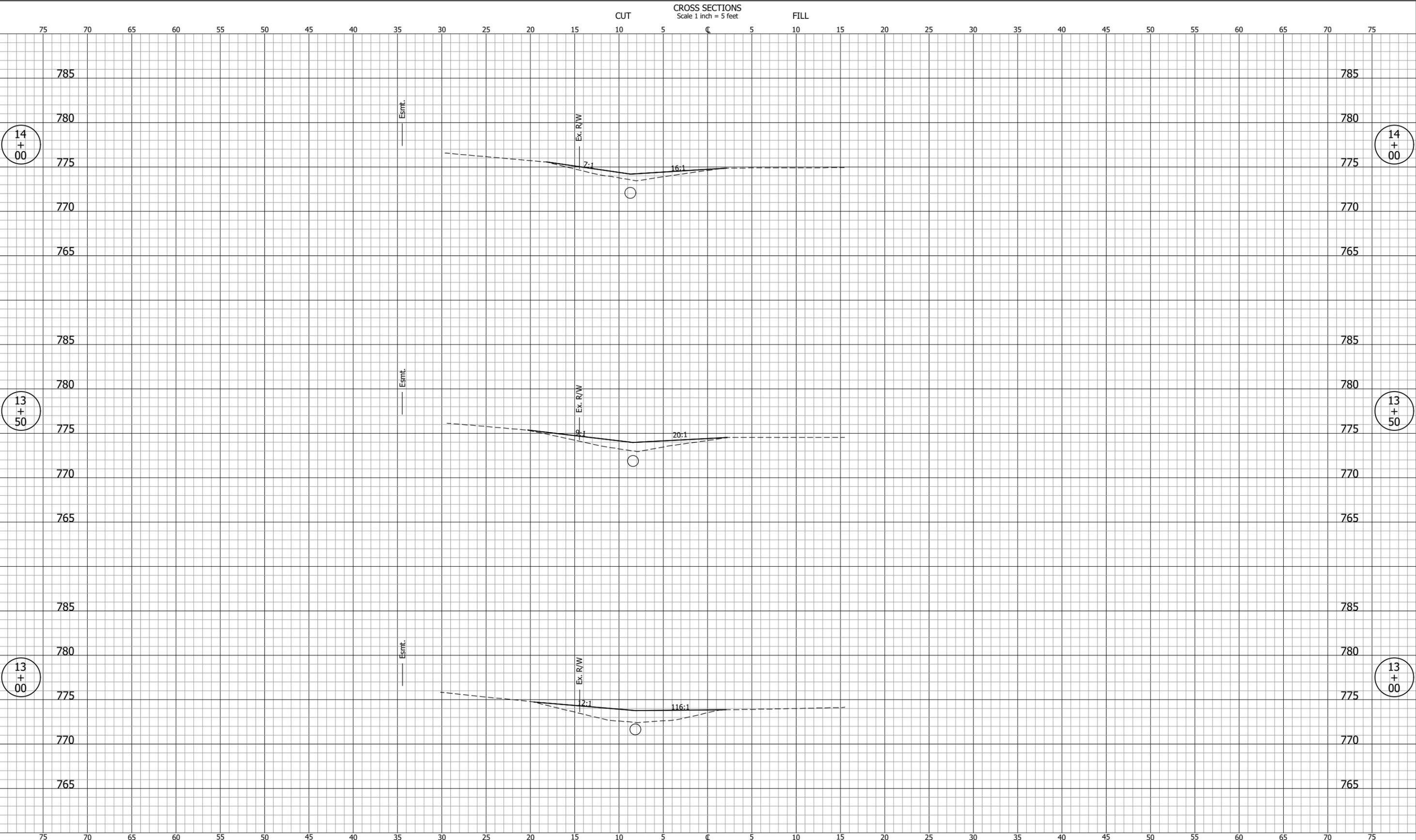
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LINE "F"

REVISIONS
DRAWN: GDH
CHECKED: KJS

HORIZONTAL SCALE
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VERTICAL SCALE
1" = 5'
SURVEY BOOK
DATE
FEBRUARY 2025

PROJECT NUMBER
201851.10
SHEETS
24 OF 31

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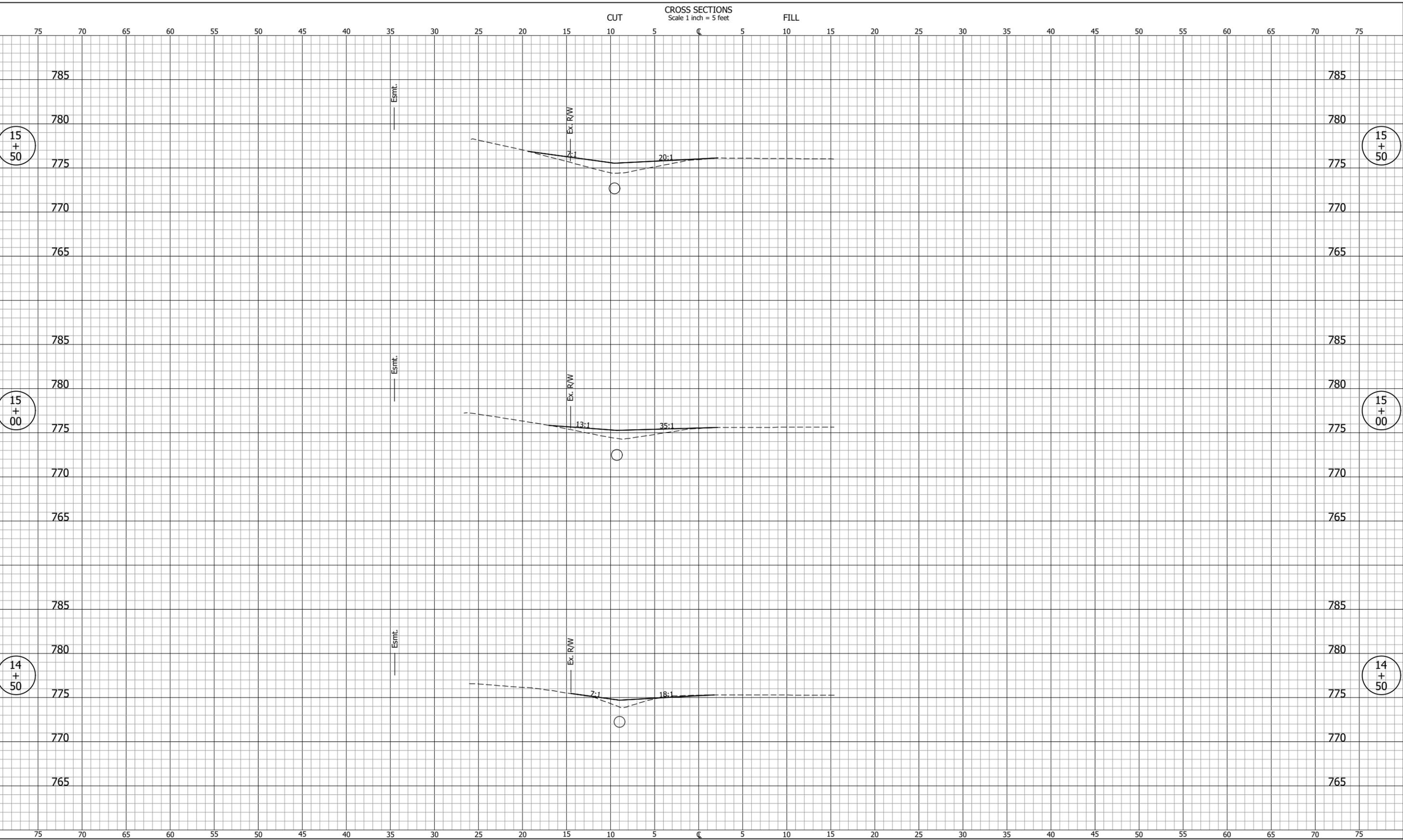
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FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I

CROSS SECTIONS
 LINE "F"

REVISIONS	HORIZONTAL SCALE 1" = 5'	PROJECT NUMBER 201851.10
	VERTICAL SCALE 1" = 5'	
DRAWN: GDH	SURVEY BOOK	SHEETS
CHECKED: KJS	DATE FEBRUARY 2025	25 OF 31

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STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

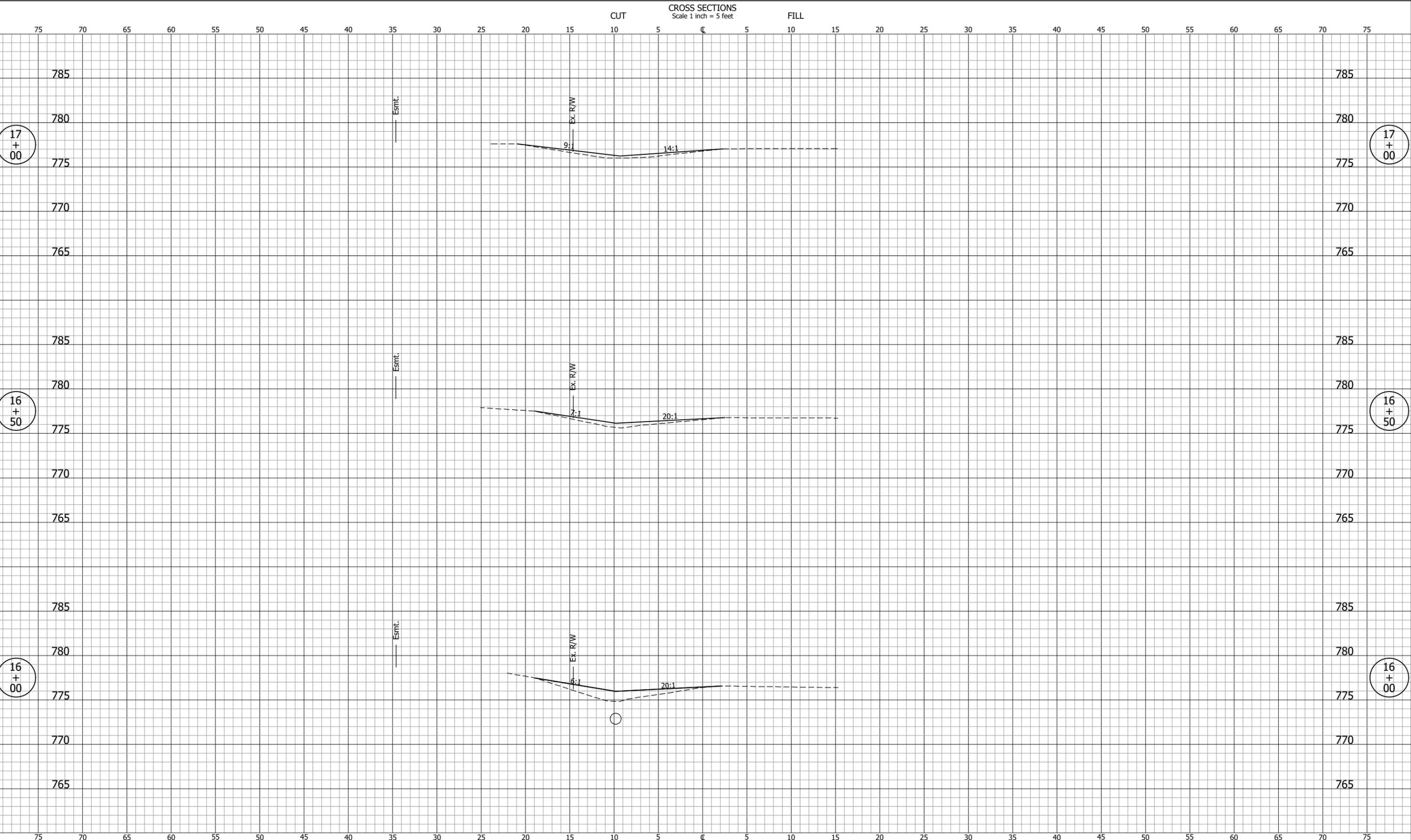
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REVISIONS
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VERTICAL SCALE 1" = 5'
SURVEY BOOK
DATE FEBRUARY 2025

PROJECT NUMBER 201851.10
SHEETS 26 OF 31

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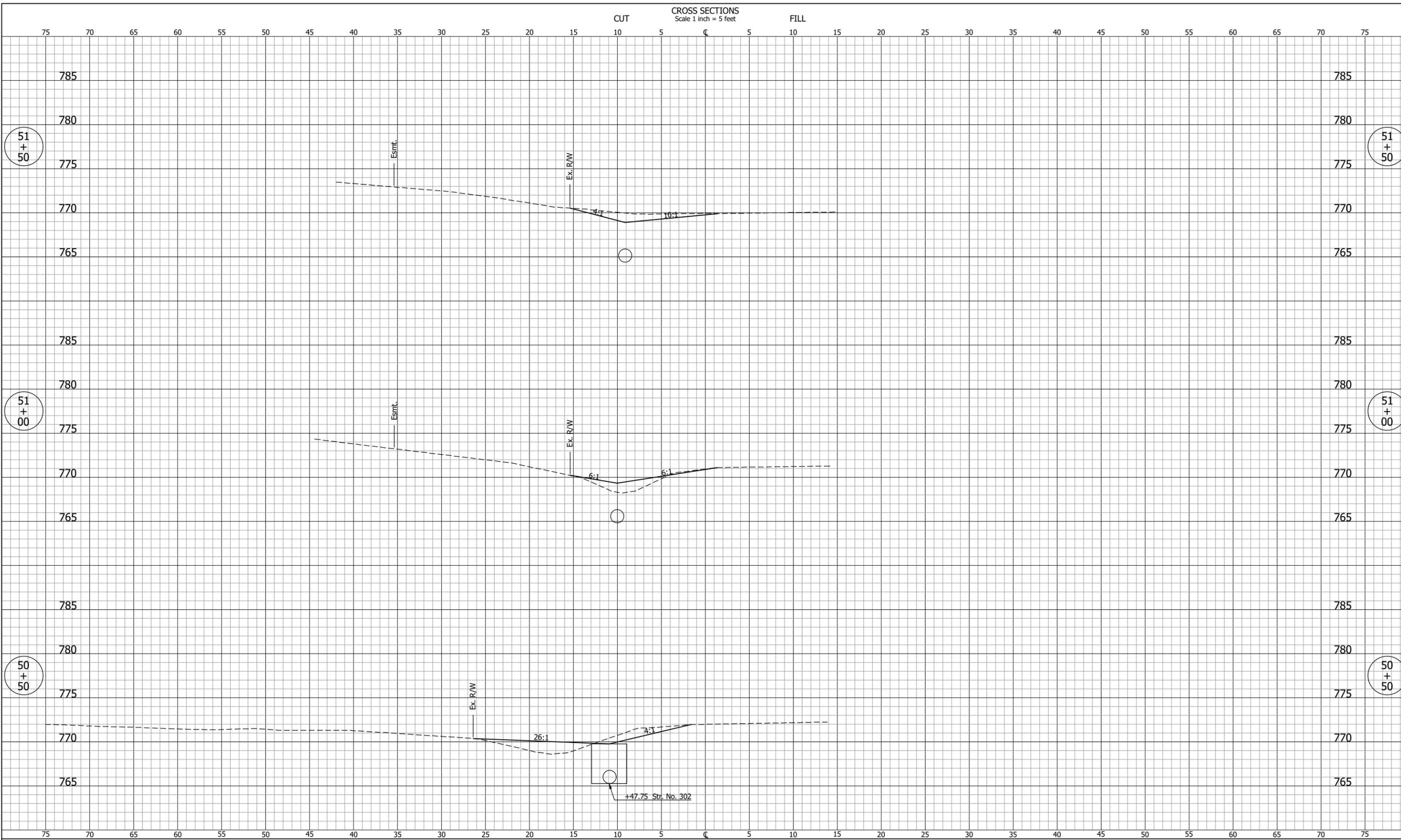
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FIELDSTONE MANOR SUBDIVISION
 STORM WATER MANAGEMENT
 SYSTEM IMPROVEMENTS - PHASE I

CROSS SECTIONS
 LINE "B"

REVISIONS	HORIZONTAL SCALE 1" = 5'	PROJECT NUMBER 201851.10
DRAWN: GDH	VERTICAL SCALE 1" = 5'	SHEETS 27 OF 31
CHECKED: KJS	SURVEY BOOK	DATE FEBRUARY 2025

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STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

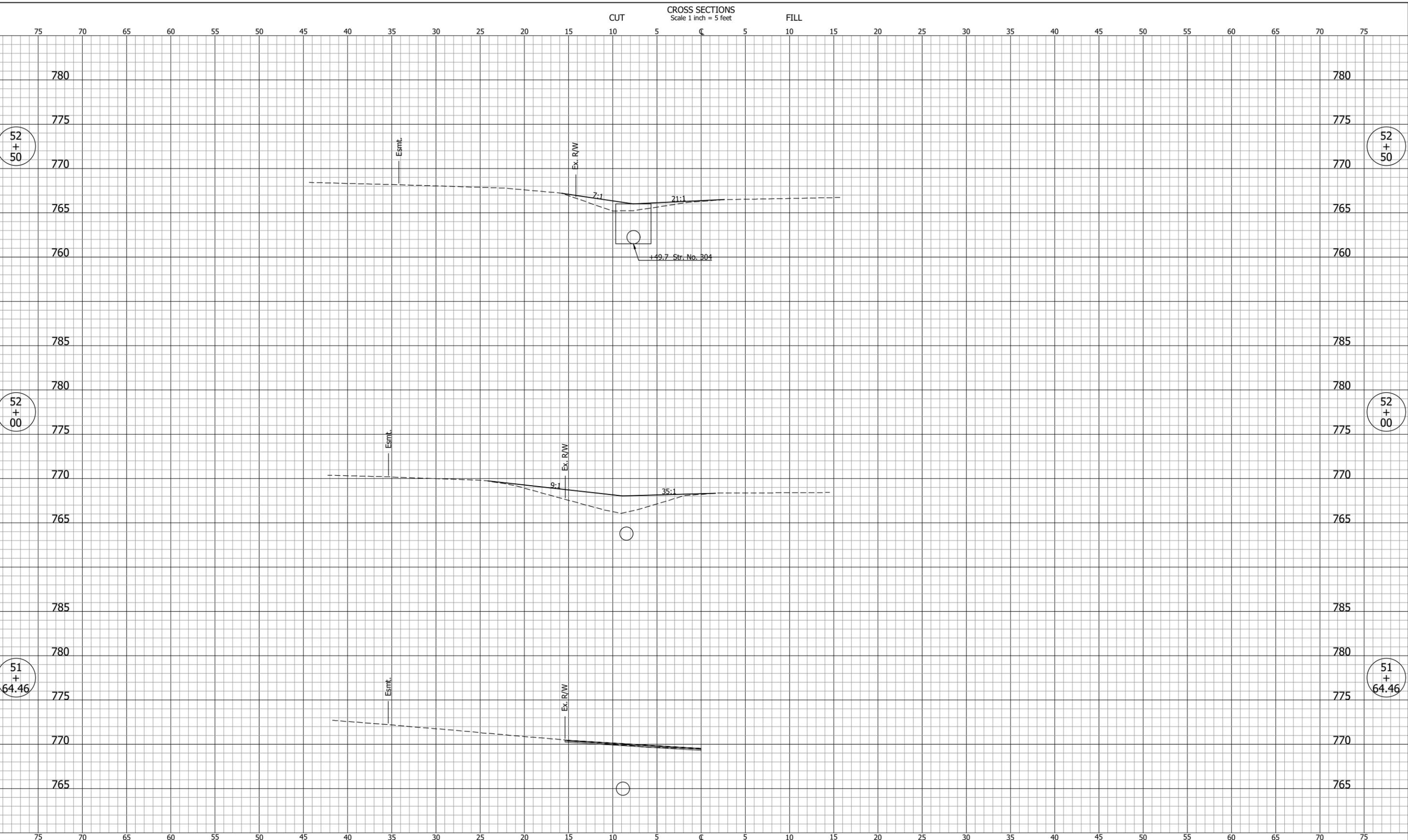
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REVISIONS
DRAWN: TMC
CHECKED: KJS

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VERTICAL SCALE 1" = 5'
SURVEY BOOK
DATE FEBRUARY 2025

PROJECT NUMBER 201851.10
SHEETS 28 OF 31

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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

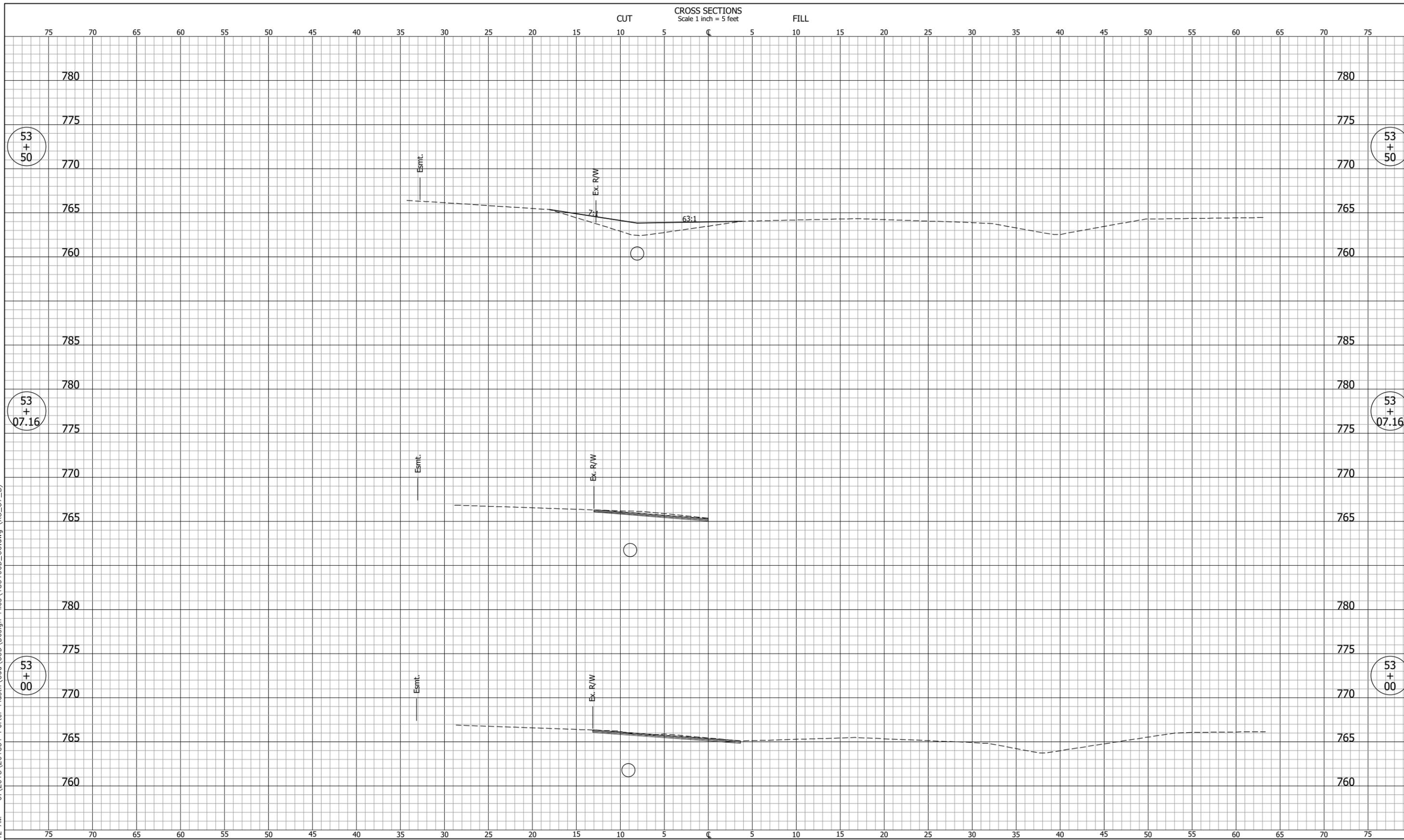
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REVISIONS
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CHECKED: KJS

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VERTICAL SCALE 1" = 5'
SURVEY BOOK
DATE FEBRUARY 2025

PROJECT NUMBER 201851.10
SHEETS 29 OF 31

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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

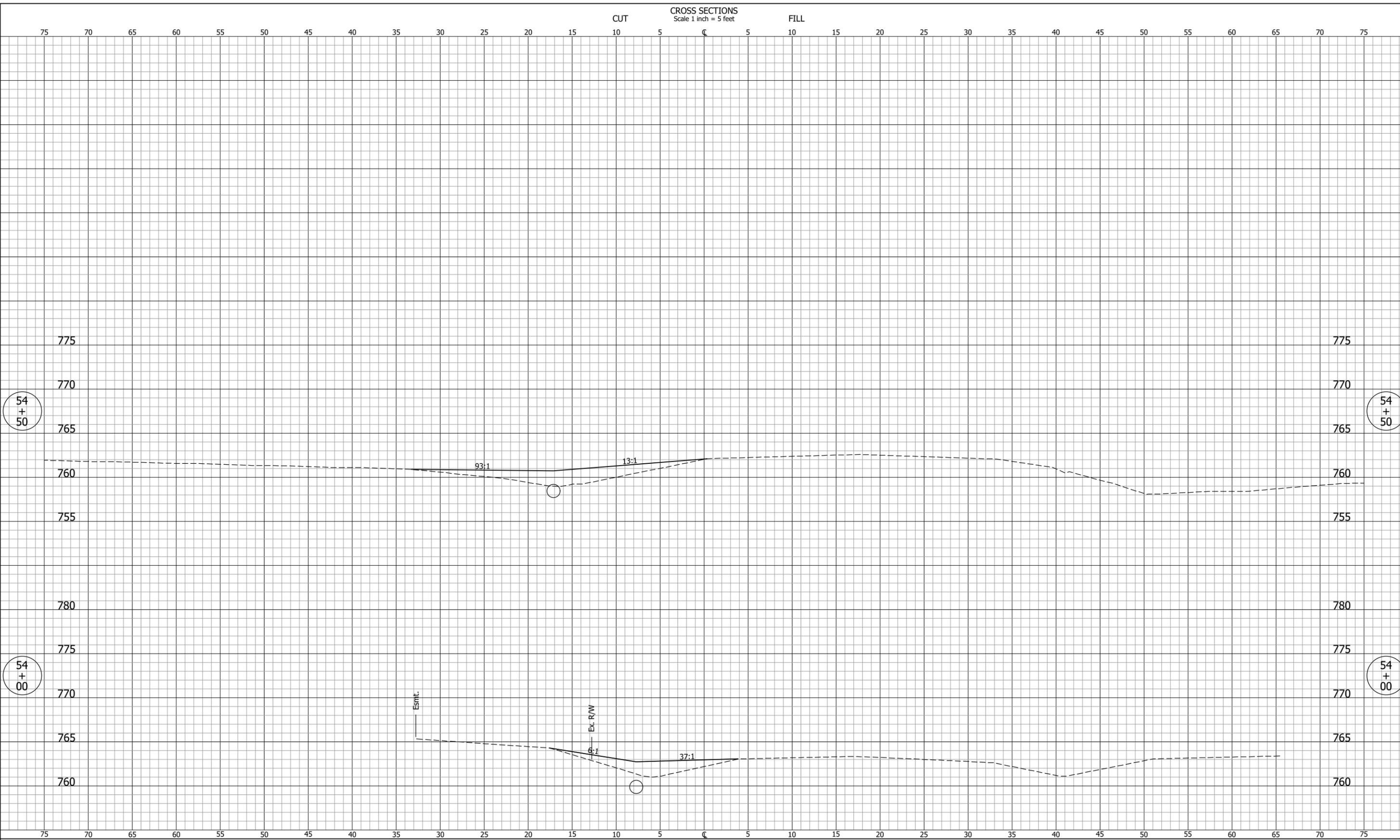
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VERTICAL SCALE 1" = 5'
SURVEY BOOK
DATE FEBRUARY 2025

PROJECT NUMBER 201851.10
SHEETS 30 OF 31

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FIELDSTONE MANOR SUBDIVISION
STORM WATER MANAGEMENT
SYSTEM IMPROVEMENTS - PHASE I

CROSS SECTIONS
LINE "B"

REVISIONS
DRAWN: TMC
CHECKED: KJS

HORIZONTAL SCALE 1" = 5'
VERTICAL SCALE 1" = 5'
SURVEY BOOK
DATE FEBRUARY 2025

PROJECT NUMBER 201851.10
SHEETS 31 OF 31