STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

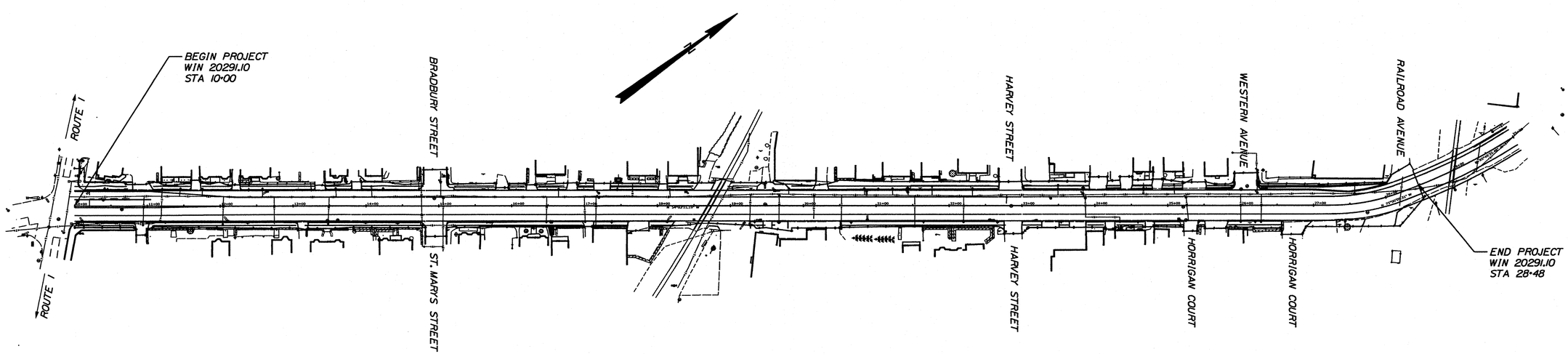
Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing — Existing — Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees — Conifer — Deciduous
Tree Line
Clearing Limit Line

Centerline-Existing
Centerline-Proposed
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins — Existing — Proposed
Manholes — Existing — Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles — Existing — Proposed
Fire Hydrants — Existing — Proposed
Existing Water Line
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

BIDDEFORD
YORK COUNTY
MAIN STREET
STP-2029(110)
PROJECT LENGTH : 0.35 MILES

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2-3
General Notes	4
Plan / Profile	5-7
Geometric Curb Layout	8-10
Cross - Sections	11-33
Right of Way Map	34-37
Sewer Plans	38-49



TRAFFIC DATA

	Sec. 1 Biddeford-Main St. NW/O US 1 (Elm St.)	Sec. 2 Biddeford-Main St. NW/O US 1 (Elm St.)
Current (2013) AADT	5350	5350
Future (2025) AADT	6420	5990
DHV - % of AADT	9%	9%
Design Hour Volume	578	539
% Heavy Trucks (AADT)	3%	3%
% Heavy Trucks (DHV)	3%	3%
Directional Distribution (DHV)	50%	50%
18 kip Equivalent P 2.0	54	51
18 kip Equivalent P 2.5	51	48
Design Speed (mph)	25	25
Functional Class:	Major/Urban Collector	

LAYOUT SCALE

75 0 75 150

Scale in Feet

PROJECT LOCATION:	Main Street from Route 1 to just west of Railroad Avenue.
PROGRAM AREA:	Highway
SCOPE OF WORK:	Rehabilitation

WIN 20291.10 STP-2029(110)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED	DATE
COMMISSIONER:	3/18/16
CHIEF ENGINEER:	3-17-16

STATE OF MAINE — Robert K. Gray — 13027 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE	
P.E. NUMBER	13027
DATE	3/16/16

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	R. BETZ
DESIGNER	K. GRAY
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

BIDDEFORD
MAIN STREET

TITLE SHEET

SHEET NUMBER
1
OF 37

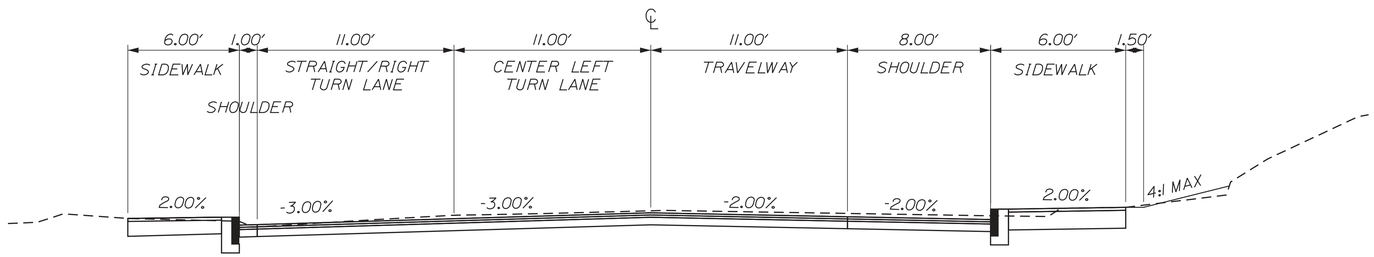
Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: peter.m.kologios Date:3/15/2016

TYPICAL SECTION
PMRAP CURB REALIGNMENT
AND SIDEWALK RECONSTRUCTION (OPTION 1)

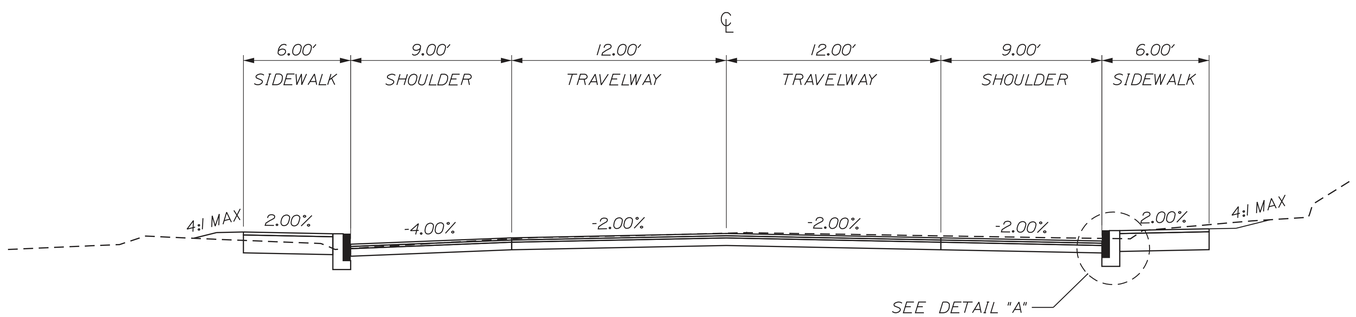
NOTE:

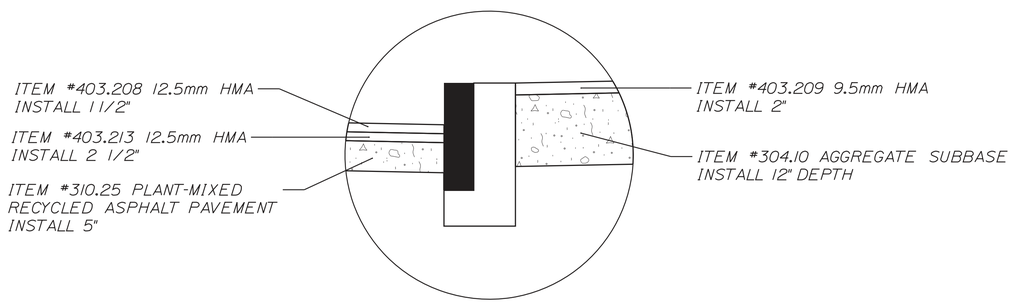
1. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

2. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.



STATION 10+00 TO 11+05
TRANSITION FROM 11+05 TO 12+20





DETAIL "A"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

TYPICAL SECTIONS

SHEET NUMBER
2
OF 37

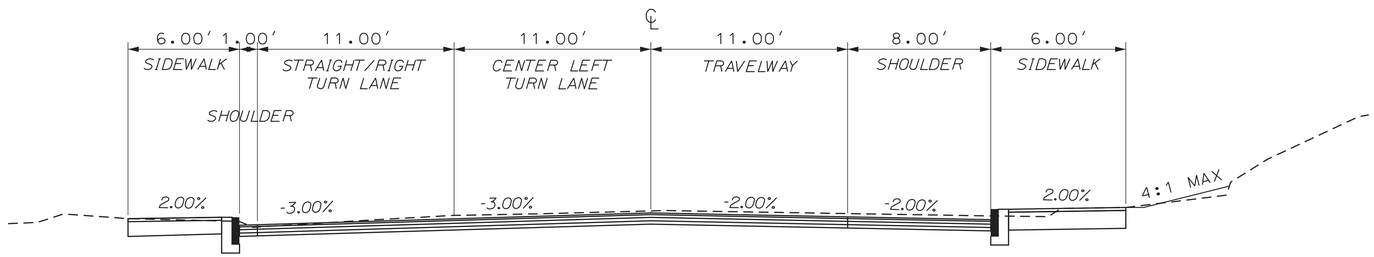
Filename: ...\HIGHWAY\MSTA\002_Typical.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

TYPICAL SECTION
GRAVEL BASE REALIGNMENT
AND SIDEWALK RECONSTRUCTION (OPTION 2)

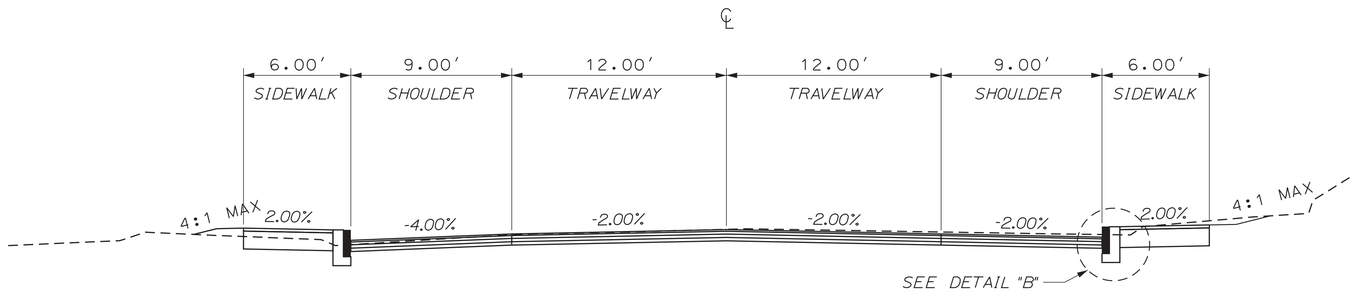
NOTE:

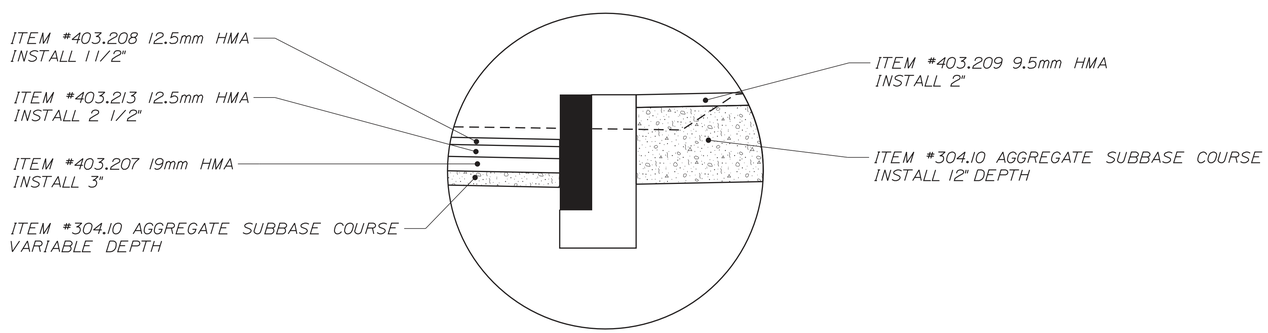
1.THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%

2.THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE



STATION 10+00 TO 11+05
TRANSITION FROM 11+05 TO 12+20





DETAIL "B"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY	K. GRAY	
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

TYPICAL SECTIONS

SHEET NUMBER
3
OF 37

Filename: ...\HIGHWAY\MSTA\003_Typical.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

1. All joints between existing and proposed hot bituminous pavement, including driveways, shall be saw cut along a straight line to a neat, clean, even, vertical joint. Broken or raveled edges will not be permitted. Work shall be considered incidental to paving items.

2.. All waste material not used on the project shall be disposed of in acceptable waste areas. Grading, seeding, and mulching of waste areas to be considered incidental to 656 Items.

3. Residential paved entrances shall be constructed with: 2" hot mix asphalt and 12" aggregate subbase course gravel.

4. Unpaved entrances shall be constructed with 14" aggregate subbase course gravel or 11" aggregate subbase course gravel and 3" untreated aggregate surface course unless otherwise noted in the plans or directed by the Resident.

5. A 3' paved lip shall be placed at all gravel entrances unless otherwise noted in the plans or directed by the Resident.

6. Any necessary cleaning of existing pavement prior to paving shall be incidental to the related paving items.

7. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident.

8. All underdrain not shown on the cross sections will have a minimum grade of 0.5% and underdrain sand backfill placed to an elevation equal to the bottom of the new gravel layer. All underdrain shown on the cross sections will have the flow line calculated to a constant gradient between labeled locations. All flow line elevations are subject to approval by the Resident.

9. All connections for underdrain to roadway culverts will be incidental to the related items.

10. Loam has been estimated for disturbed lawn areas. Actual placement of the loam shall be as noted on the plans or designated by the Resident.

11. Unless otherwise noted Seeding Method No. 1 shall be utilized on all lawns and developed areas; Seeding Method No. 2 shall be utilized on all non-guardrail slopes. Seeding Method No. 3 shall be utilized on all guardrail fill slopes and erosion control mix. On long non-guardrail backslopes, Seeding Method No. 3 may be used instead of Method No. 2 if noted or directed by the Resident.

12. Loam shall be placed to a nominal depth of 4 inches in lawn areas.

13. The contractor will be responsible for maintaining all existing mailboxes to ensure that the mail will be deliverable. Payment will be incidental to the contract.

14. Any damage to the slopes caused by the contractor's equipment, personnel, or operation shall be repaired to the satisfaction of the resident. All work, equipment, and materials required to make repairs shall be at the contractor's expense.

15. The fill quantity shown on the cross sections includes the waste storage.

16. No separate payment for superintendent or foreman will be made for the supervision of equipment being paid for under the equipment rental items.

17. "Undetermined Locations" shall be determined by the Resident.

18. Stations referenced are approximate.

19. All work shall be done in accordance with the Maine Department of Transportation's Best Management Practices for Erosion & Sedimentation Control, February, 2008.

20. The Contractor will final stripe the project. The Contractor is responsible for laying out final striping.

21. The average depth of pavement found in the borings was 4.3". However, the pavement depth varied greatly between 2.5" and 7".

22. Boring Information furnished or referenced in this plan set is for the Bidders' and Contractor's use. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the time of construction. The Department shall not be responsible for the Bidders' and Contractor's interpretations of, or conclusions drawn from, the Geotechnical Information. The boring logs contained in the referenced borings report present interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between widely-spaced boring locations.

23. A temporary ramp shall be constructed with HMA at the ends of the roadway section paved or milled each day. The use of millings or RAP will not be allowed, but cold patch may be temporarily utilized until HMA plants are open for the season.

For roadways with speed limits less than 50 mph, temporary ramps shall be constructed with one foot of length for every 1/4" of transition depth on the leading and trailing end.

Materials, placement, maintenance and removal shall be incidental to contract items.

24. Grind transition tapers at Catch Basins under Item 202.203 Pavement Butt Joints, as directed by the Resident.

25. Prior to removing any pavement or placing any shim pavement, the roadway will be inspected for possible subsurface boulders and removed as directed by the Resident. Payment will be made under appropriate rental items.

26. Commercial paved entrances shall be constructed with: 3" hot mix asphalt and 11" aggregate subbase course gravel.

27. All paved walks to be constructed with 12" aggregate subbase course-gravel and 2" hot mix asphalt unless otherwise noted in the plans or directed by Resident.

28. Existing culverts and catch basins will be cleaned as directed by the Resident under the appropriate pay items.

29. Any necessary cutting of existing catch basins to allow for pipe connections will not be paid for separately and will be considered incidental to Item 603 or 605.

30. Any pavement not surfaced before winter will require temporary pavement markings of paint, both yellow centerline, white edgelines, and arroes will be considered incidental to Item 627.76.

31. The contractor will be responsible for maintaining all existing mailboxes to ensure that the mail will be deliverable each day. Payment will be made under appropriate rental items.

32. The contractor will place appropriately marked stakes at the following locations on the project: striping pattern changes, cross-slope changes and every 200' for stationing. The contractor will paint every full station (100') on the existing roadway and will transfer the painted stationing through all intermediate lifts (not surface). Appropriately sized striping pattern changes will be painted on surface. Stationing control must be placed before work can commence. Cross-slope and striping change controls must be placed before paving can commence. A Traffic Control Penalty will be assessed for each day of non-compliance.

33. All sidewalk ramps must be ADA compilant and cannot exceed a 1:12 slope. Curb reveal may need to be adjusted at the direction of the Resident to assure ADA compliancy.

34. Construct butt joints at all paved drives and entrances.

35. All joints between existing and proposed hot bituminous pavement shall be butted. Payment shall be made under Item 202.203 Pavement Butt Joint.

36. All existing paved shoulders and widenings to be resurfaced as directed by the Resident.

37. Shoulder shim shall taper to 0 inches prior to face of existing curb and guardrail.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

WIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

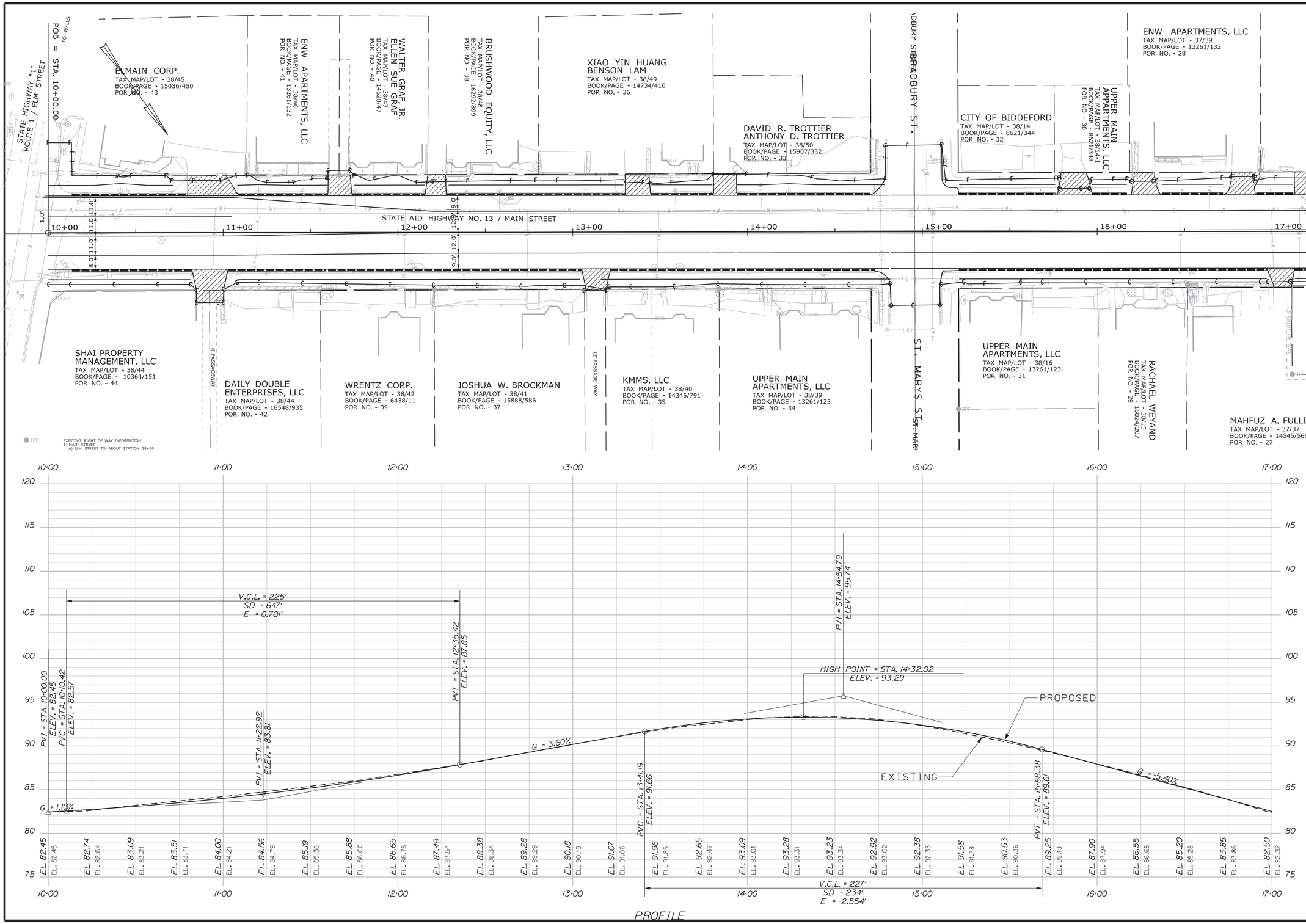
GENERAL NOTES

SHEET NUMBER

4

OF 37

Filename: ...\00\HIGHWAY\MSTA\004_Notes.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

	BY	DATE	SIGNATURE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY	DEC 2014	
CHECKED-REVIEWED	T. WHITE		
DESIGN2-DETAILED2	S.HAYDEN		
DESIGN3-DETAILED3			P.E. NUMBER
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			DATE
REVISIONS 4			
FIELD CHANGES			

BIDDEFORD
MAIN STREET

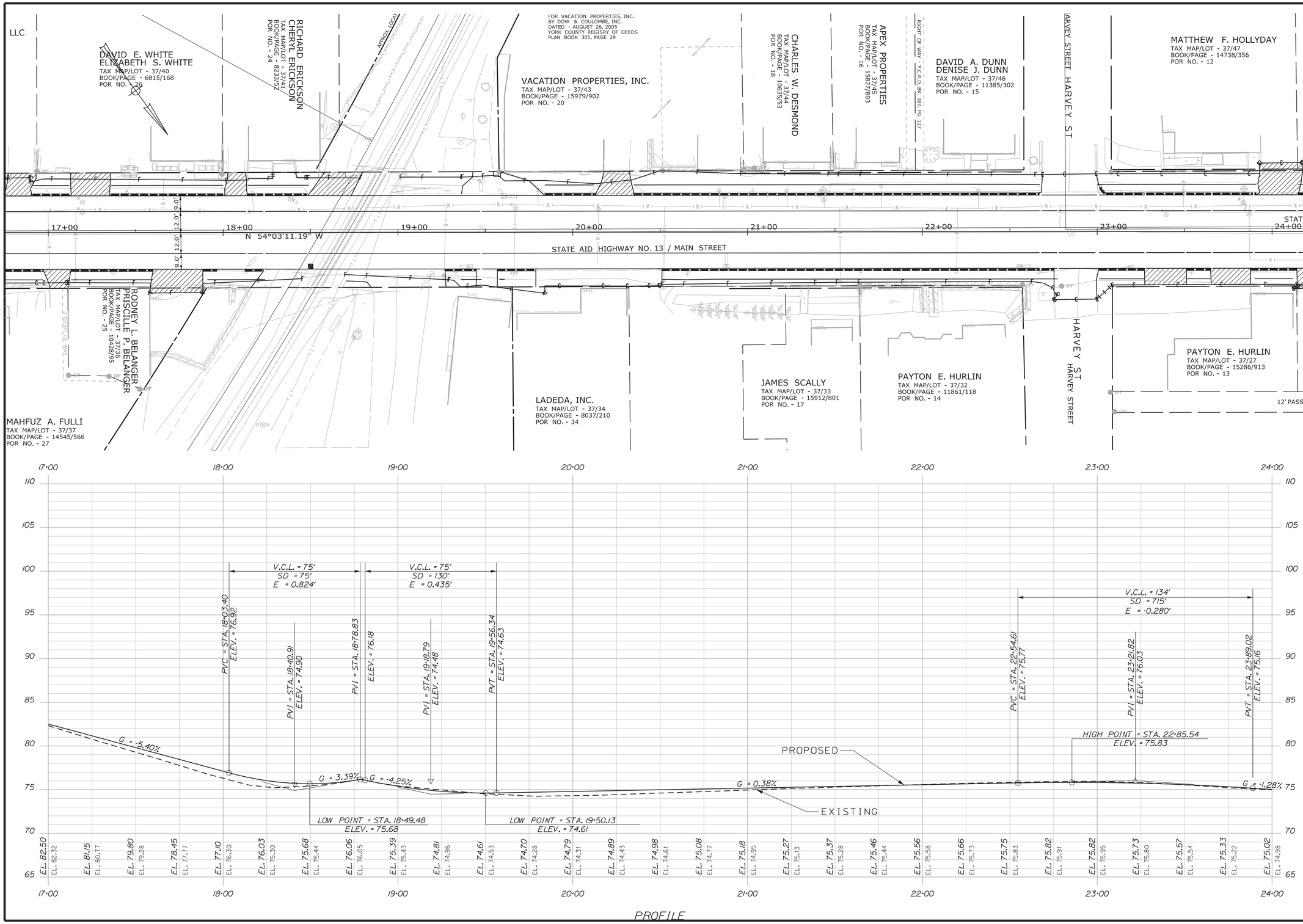
PLANS

SHEET NUMBER

5

OF 37

Filename: ...\HIGHWAY\MSTA\005_HDPLAN1.DGN Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

	BY	DATE	SIGNATURE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

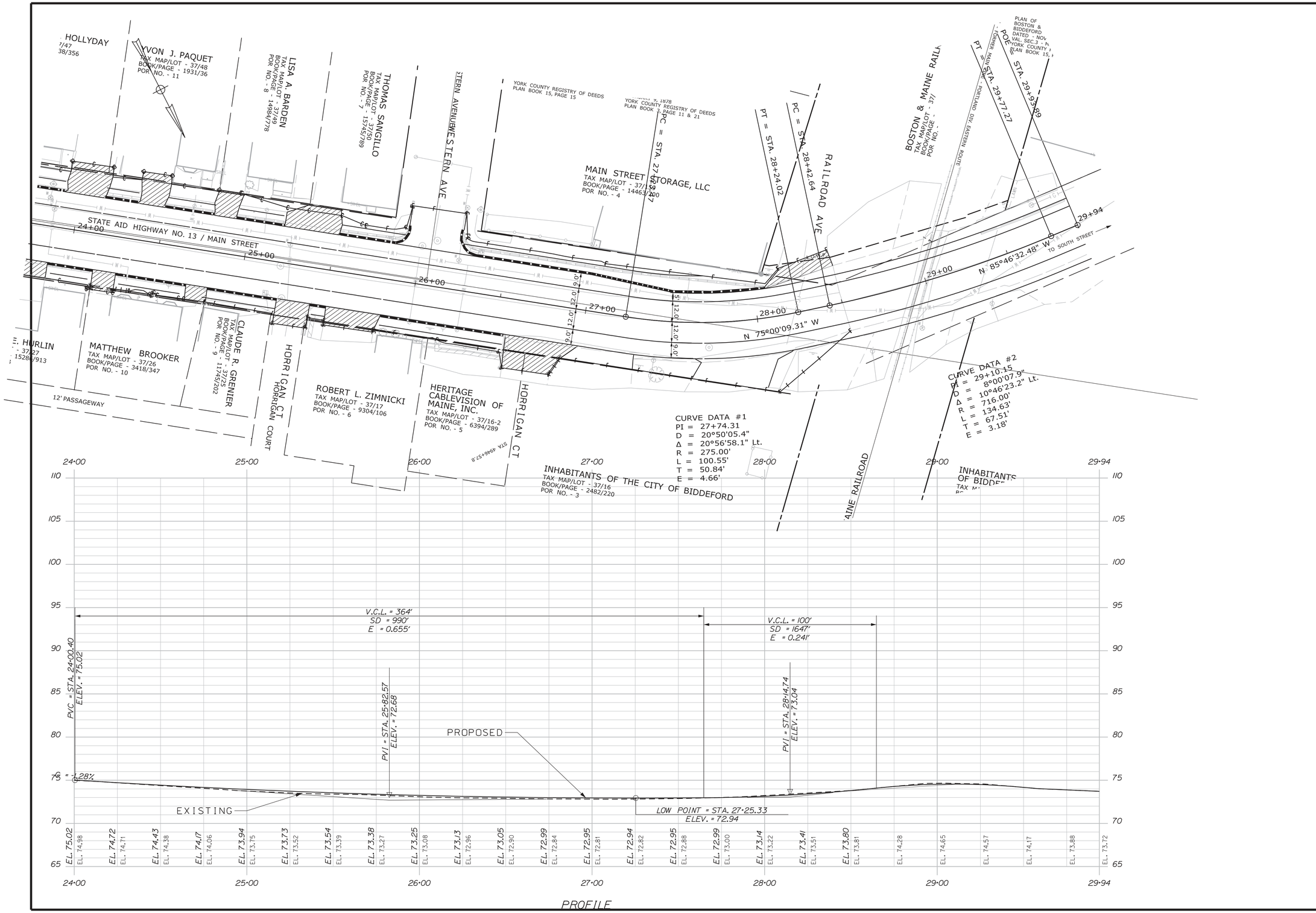
PLANS

SHEET NUMBER

6

OF 37

Filename: ...\HIGHWAY\MSTA\006_HDPLAN2.DGN Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			SIGNATURE
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			P.E. NUMBER
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			DATE
REVISIONS 4			
FIELD CHANGES			

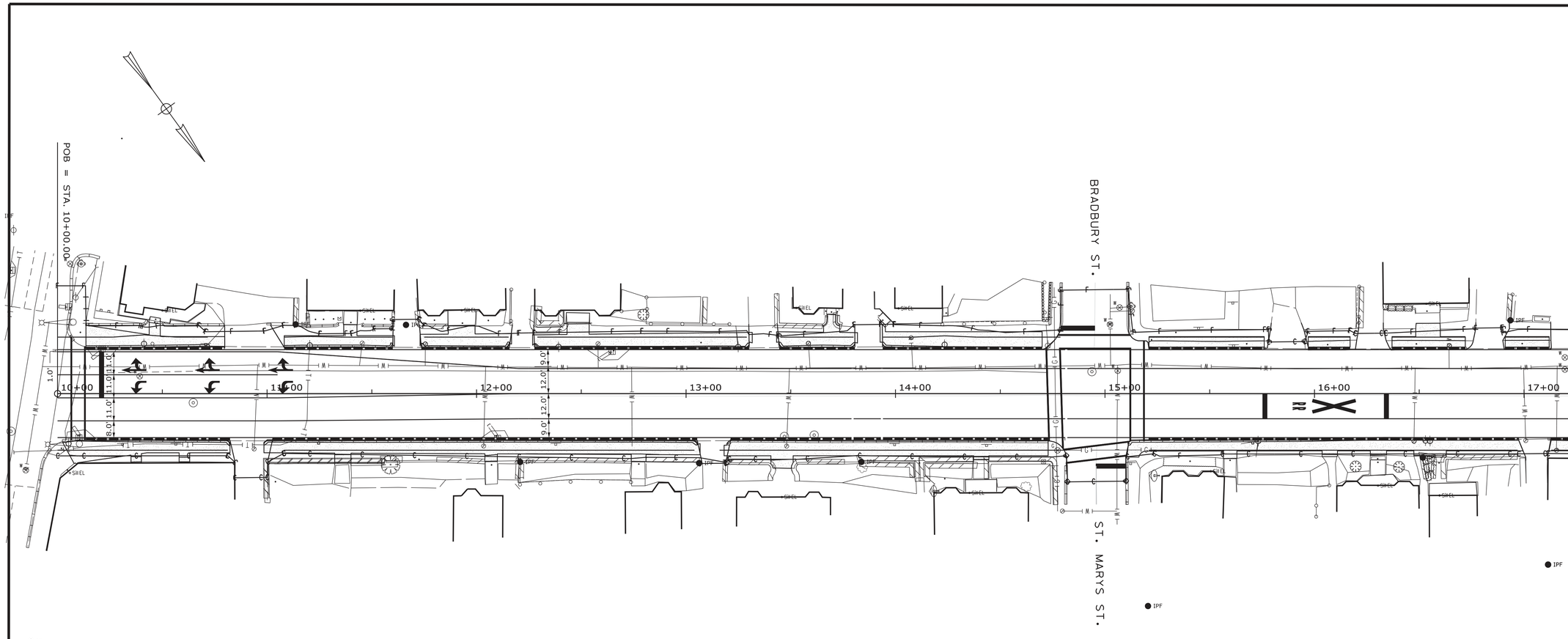
BIDDEFORD
MAIN STREET

PLANS

SHEET NUMBER

7

OF 37



ITEM 609.11 - VERTICAL CURB TYPE I

STA.	TO	STA.	SIDE	QTY
10+22		10+65	LEFT	43
10+22		10+72	RIGHT	50
11+11		12+97	RIGHT	186
11+16		11+52	LEFT	36
11+82		12+08	LEFT	26
12+36		13+22	LEFT	86
13+25		14+66	RIGHT	141
13+45		13+73	LEFT	28
13+94		14+70	LEFT	76
15+20		16+92	RIGHT	172
15+30		15+72	LEFT	42
16+06		16+11	LEFT	5
16+45		16+67	LEFT	22
16+99		17+06	LEFT	7

ITEM 609.238 - TERMINAL CURB TYPE I - 8 FOOT

STA.	TO	STA.	SIDE
10+14		10+22	LEFT
10+14		10+22	RIGHT
10+72		10+80	RIGHT
11+03		11+11	RIGHT
11+08		11+16	LEFT
11+52		11+60	LEFT
11+74		11+82	LEFT
12+08		12+16	LEFT
12+28		12+36	LEFT
12+97		13+05	RIGHT
13+21		13+29	RIGHT
13+22		13+30	LEFT
13+45		13+53	LEFT
13+73		13+81	LEFT

ITEM 609.238 - TERMINAL CURB TYPE I - 8 FOOT

STA.	TO	STA.	SIDE
13+94		14+02	LEFT
14+66		14+74	RIGHT
14+70		14+78	LEFT
15+12		15+20	RIGHT
15+22		15+30	LEFT
15+72		15+80	LEFT
15+98		16+06	LEFT
16+11		16+19	LEFT
16+37		16+45	LEFT
16+67		16+75	LEFT
16+91		16+99	LEFT
16+92		17+00	RIGHT
17+06		17+14	LEFT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC. 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

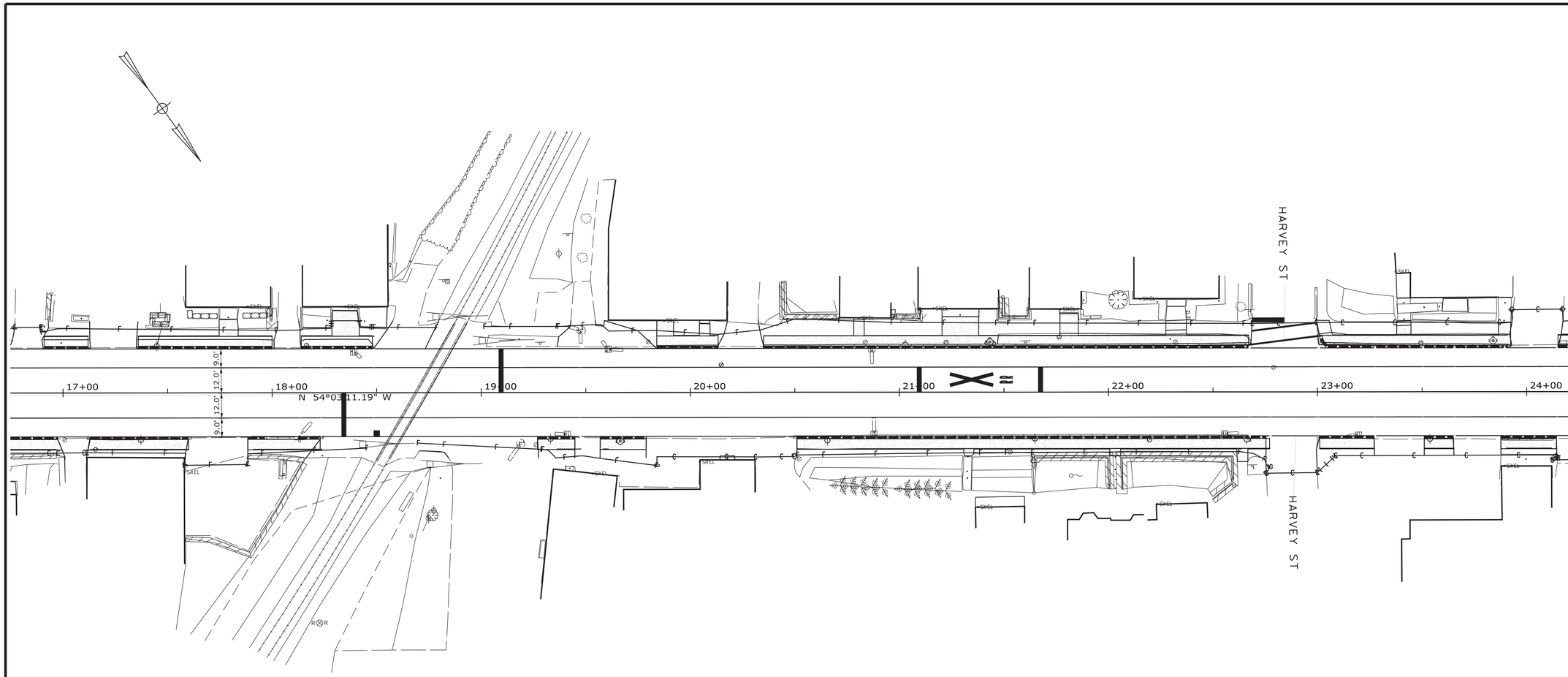
GEO. & CURB LAYOUT PLANS

SHEET NUMBER

8

OF 37

Filename: ...\MSTA\008_HDPlan_Geometry1.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



ITEM 609.11 - VERTICAL CURB TYPE I

STA.	TO	STA.	SIDE	QTY
17+21		17+54	RIGHT	33
17+45		17+92	LEFT	47
17+99		18+26	RIGHT	27
18+23		18+42	LEFT	19
19+24		19+38	RIGHT	14
19+65		19+72	RIGHT	7
19+86		20+09	LEFT	23
20+44		22+63	LEFT	219
20+58		22+70	RIGHT	212
23+07		23+87	LEFT	80
23+08		23+20	RIGHT	12
23+54		23+62	RIGHT	8
23+96		24+07	RIGHT	11

ITEM 609.234 - TERMINAL CURB TYPE I - 4 FOOT

STA.	TO	STA.	SIDE	QTY
19+61		19+65	RIGHT	1
19+72		19+76	RIGHT	1
23+50		23+54	RIGHT	2
23+62		23+66	RIGHT	2

ITEM 609.237 - TERMINAL CURB TYPE I - 7 FOOT

STA.	TO	STA.	SIDE
19+17		19+24	RIGHT
19+38		19+45	RIGHT
23+89		23+96	RIGHT
24+07		24+14	RIGHT

ITEM 609.238 - VERTICAL CURB TYPE I - 8 FOOT

STA.	TO	STA.	SIDE
17+13		17+21	RIGHT
17+37		17+45	LEFT
17+54		17+62	RIGHT
17+91		17+99	RIGHT
17+92		18+00	LEFT
18+15		18+23	LEFT
18+26		18+34	RIGHT
18+42		18+50	LEFT
19+78		19+86	LEFT
20+09		20+17	LEFT
20+36		20+44	LEFT
20+50		20+58	RIGHT
22+63		22+71	LEFT
22+70		22+78	RIGHT
23+00		23+08	RIGHT
23+20		23+28	RIGHT
23+87		23+95	LEFT

ITEM 609.2381 - 8 FOOT TERMINAL ENDS - CIRCULAR

STA.	SIDE	QTY
23+07	LEFT	1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED		K. GRAY	
CHECKED-REVIEWED		T. WHITE	DEC 2014
DESIGN2-DETAILED2		S.HAYDEN	
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

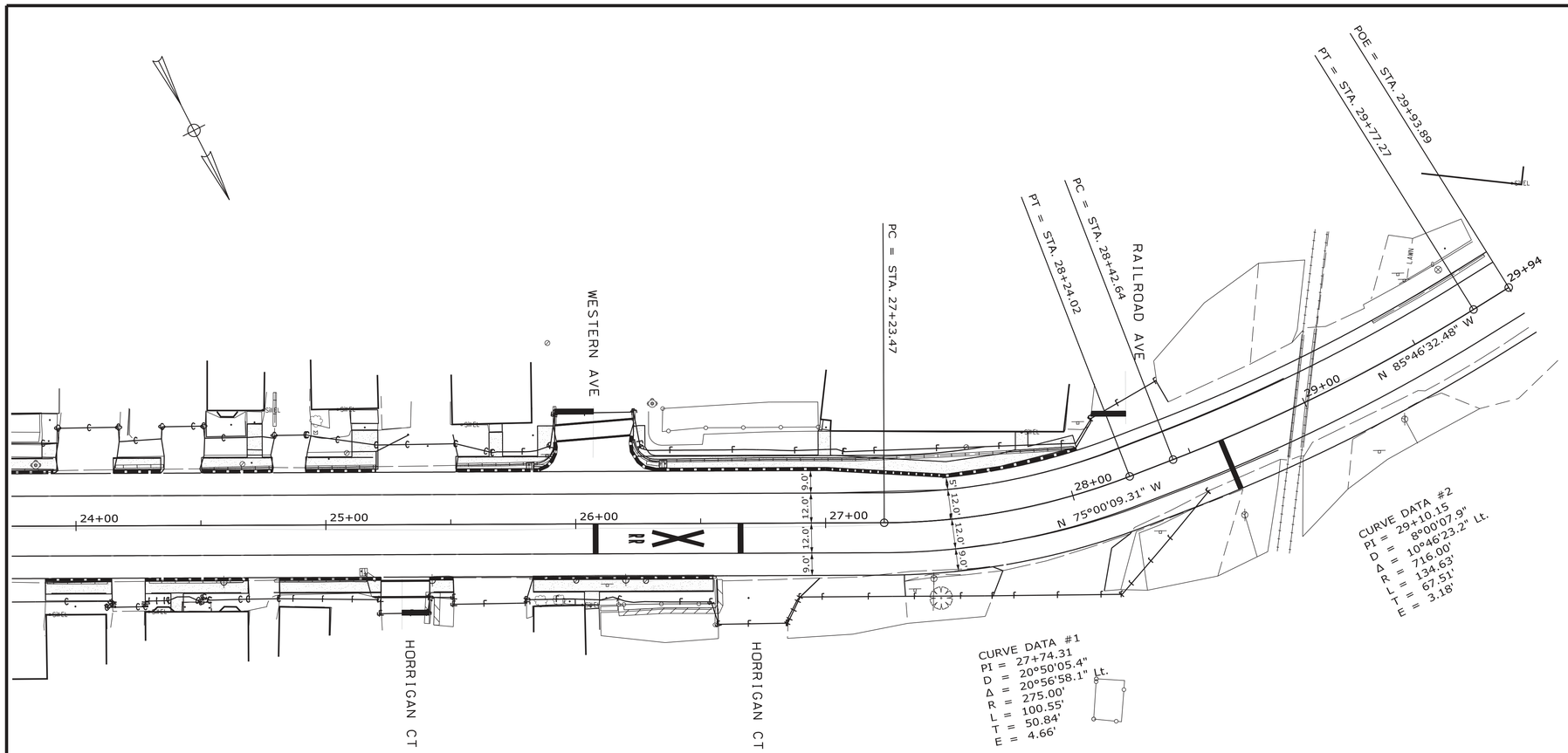
PLANS

SHEET NUMBER

9

OF 37

Filename: ...\MSTA\009_HDPlan_Geometry2.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



ITEM 609.11 - VERTICAL CURB TYPE I

STA.	TO	STA.	SIDE	QTY
24+23		24+27	LEFT	4
24+38		24+60	RIGHT	22
24+58		24+73	LEFT	15
24+88		25+09	RIGHT	21
25+02		25+14	LEFT	12
25+45		25+49	RIGHT	4
25+60		25+89	LEFT	29
25+90		26+49	RIGHT	59
26+26		27+99	LEFT	173

ITEM 609.234 - 4 FOOT TERMINAL ENDS

STA.	TO	STA.	SIDE	QTY
25+42		25+52	RIGHT	2

ITEM 609.238 - 8 FOOT TERMINAL ENDS

STA.	TO	STA.	SIDE
24+15		24+23	LEFT
24+27		24+35	LEFT
24+30		24+38	RIGHT
24+50		24+58	LEFT
24+60		24+68	RIGHT
24+73		24+81	LEFT
24+80		24+88	RIGHT
24+94		25+02	LEFT
25+09		25+17	RIGHT
25+14		25+22	LEFT
25+52		25+60	LEFT
25+82		25+90	RIGHT
26+49		26+57	RIGHT
27+99		28+07	LEFT

ITEM 609.2381 - 8 FOOT TERMINAL ENDS - CIRCULAR

STA.	TO	STA.	SIDE	QTY
25+52		25+93	LEFT	1
26+21		28+24	LEFT	1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

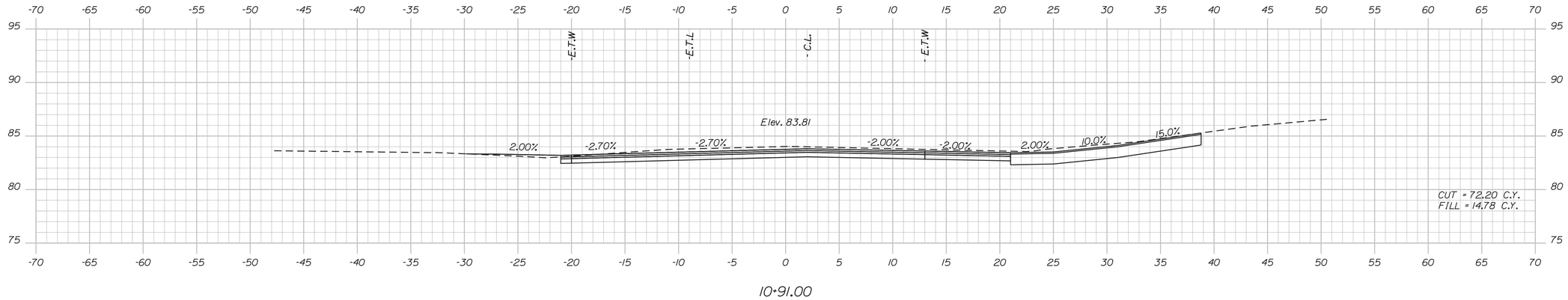
PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			SIGNATURE
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			P.E. NUMBER
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			DATE
REVISIONS 4			
FIELD CHANGES			

BIDDEFORD
MAIN STREET

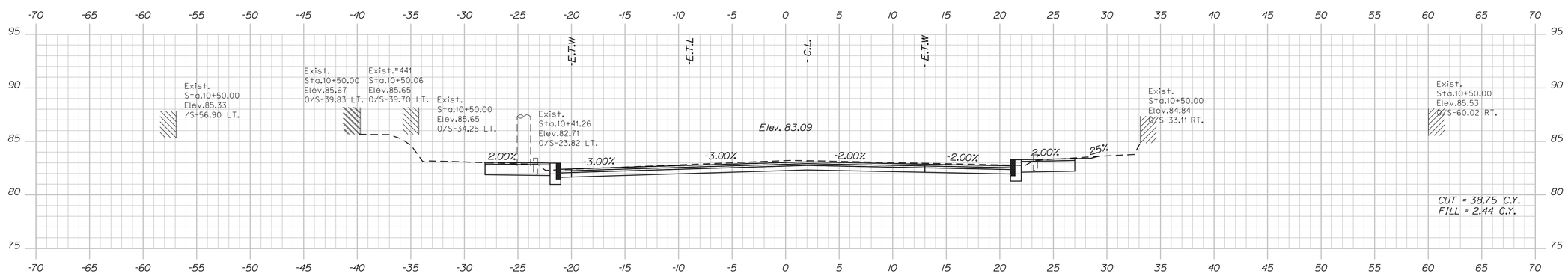
PLANS

SHEET NUMBER
10
OF 37

Filename: ...\MSTA\010_HDPlan_Geometry3.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



10+91.00



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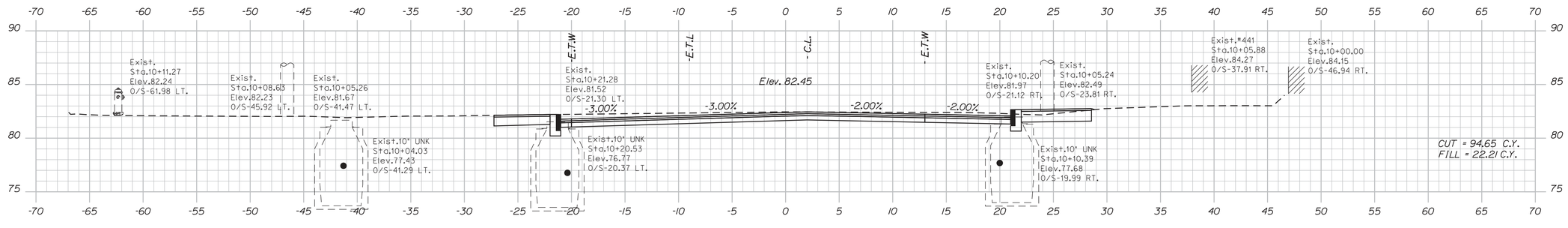


10+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

CROSS SECTIONS

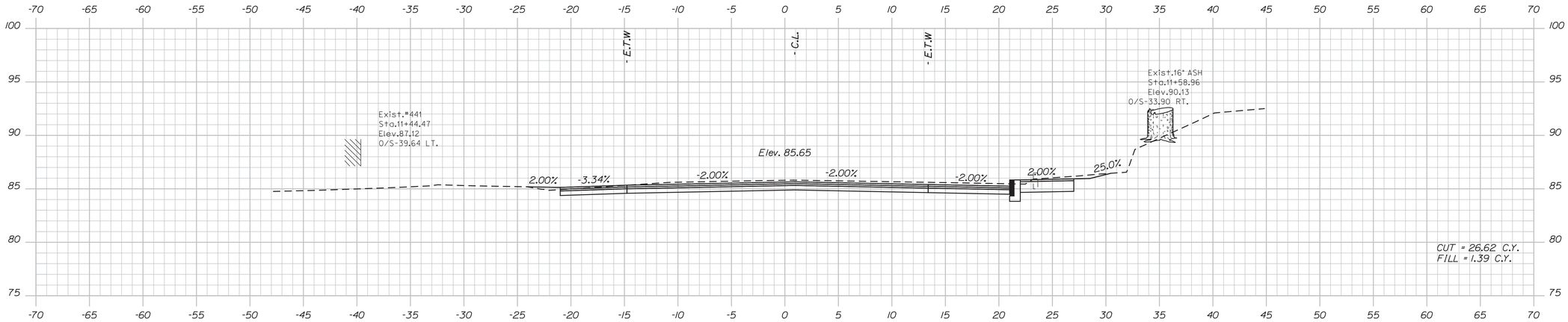
SHEET NUMBER

11

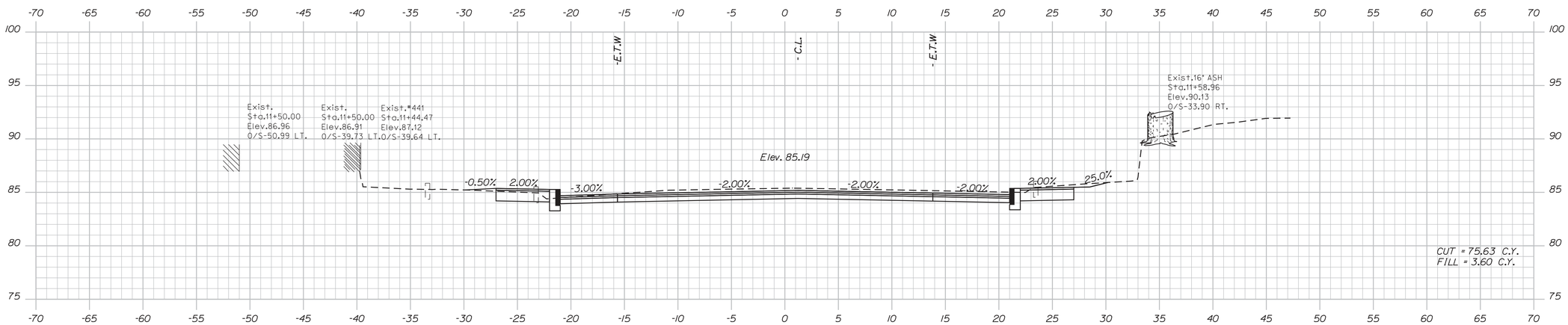
OF 37

Sta. 10+00.00 to Sta. 10+91.00

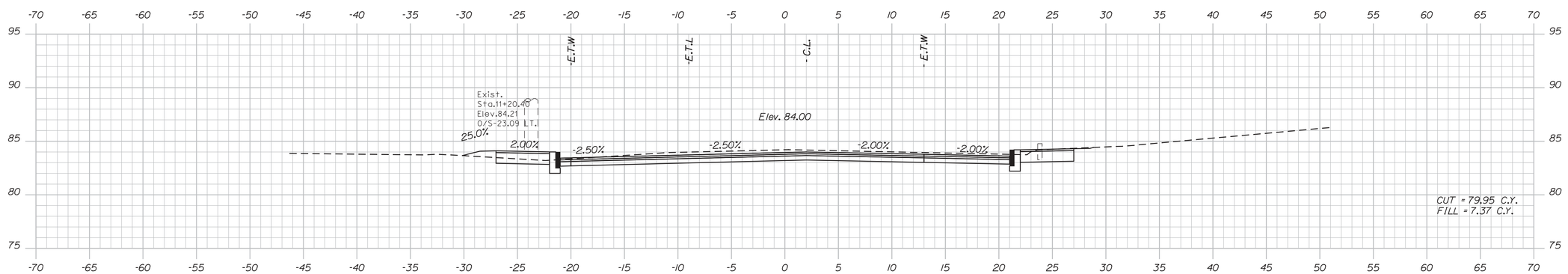
Filename: ...\MSTA\011_XSECT_10+00_001.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



11+67.00



11+50.00



11+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T. WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

CROSS SECTIONS

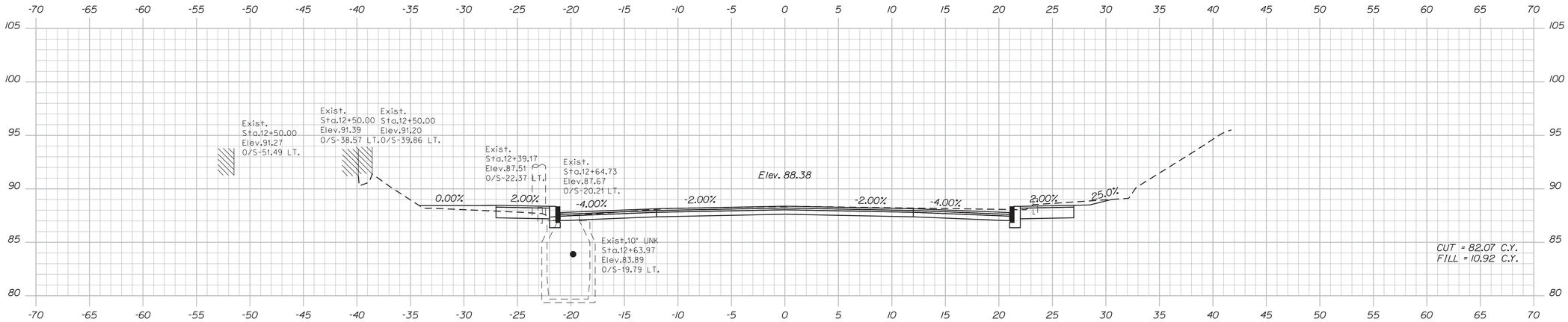
SHEET NUMBER

12

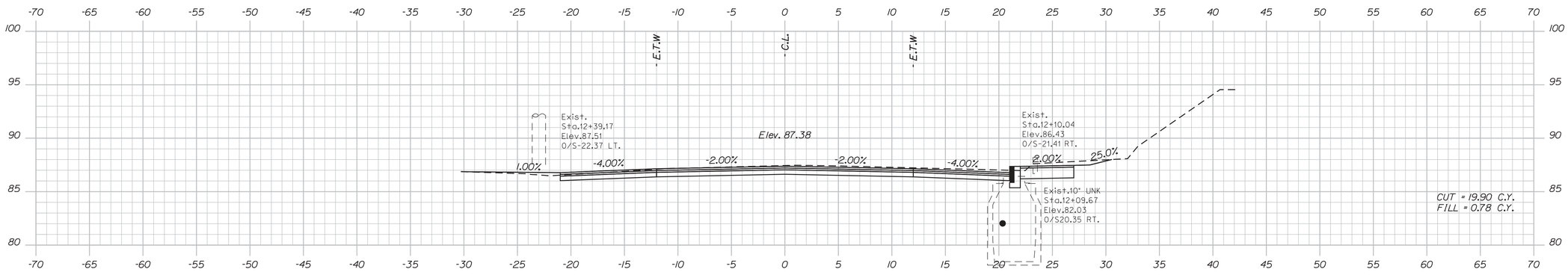
OF 37

Sta. 11+00.00 to Sta. 11+67.00

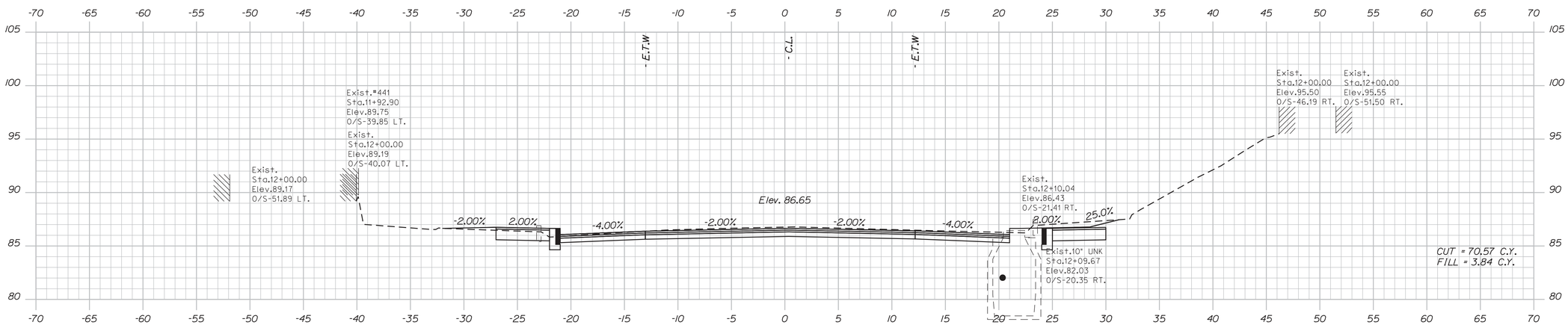
Filename: ...\MSTA\012_XSECT_11+00_002.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



12+50.00



12+22.00



12+00.00

Sta. 12+00.00 to Sta. 12+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY	T. WHITE	DEC 2014
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

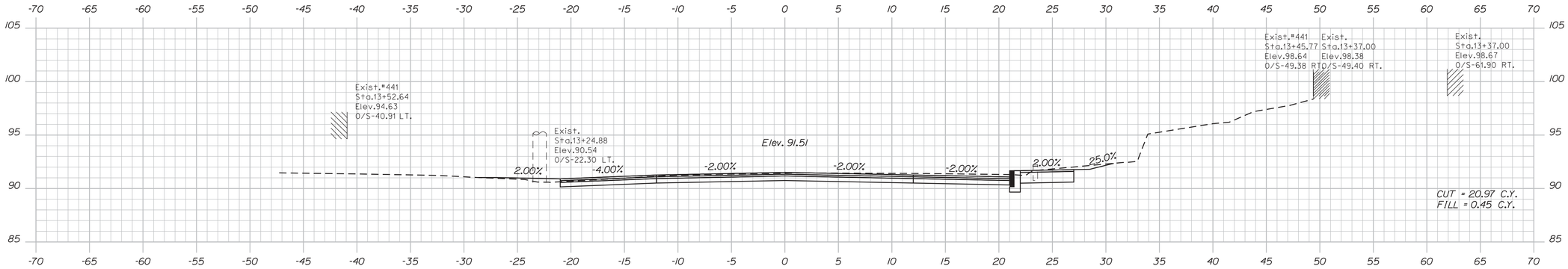
DATE

BIDDEFORD
MAIN STREET

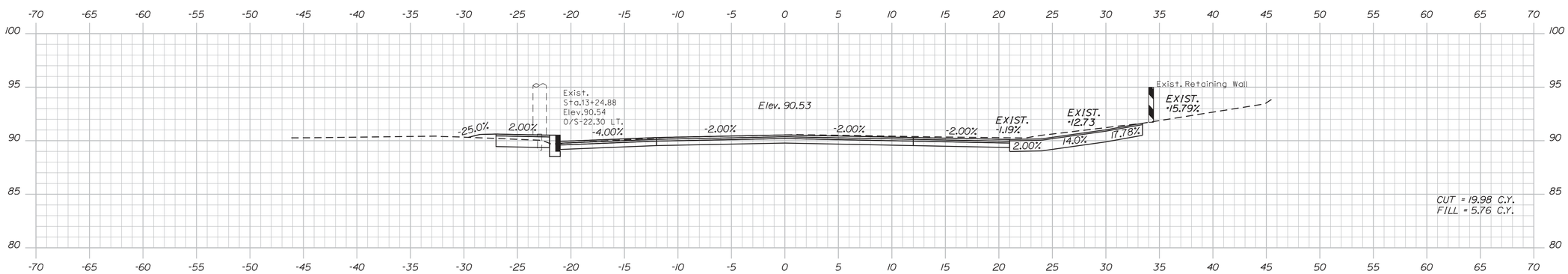
CROSS SECTIONS

SHEET NUMBER
13
OF 37

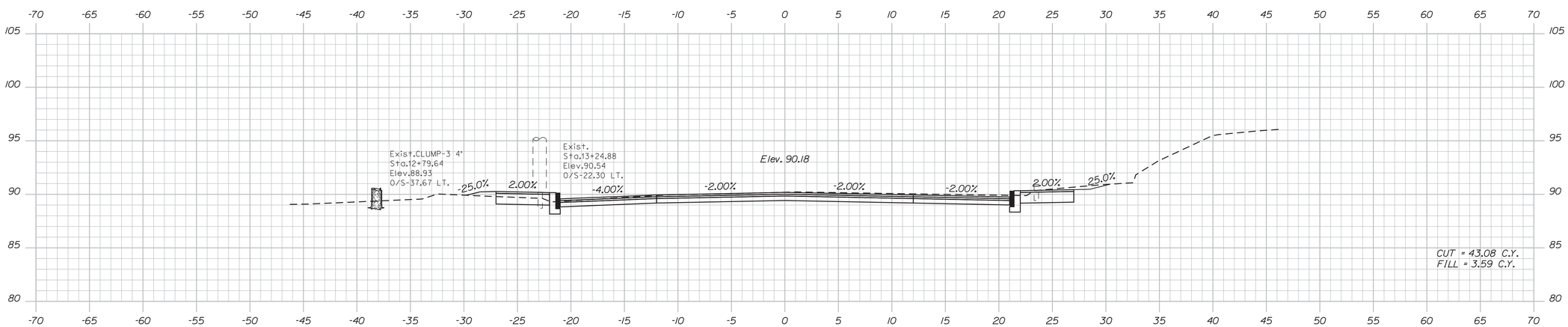
Filename: ...\MSTA\013_XSECT_12+00_003.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



13+37.00



13+10.00



13+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

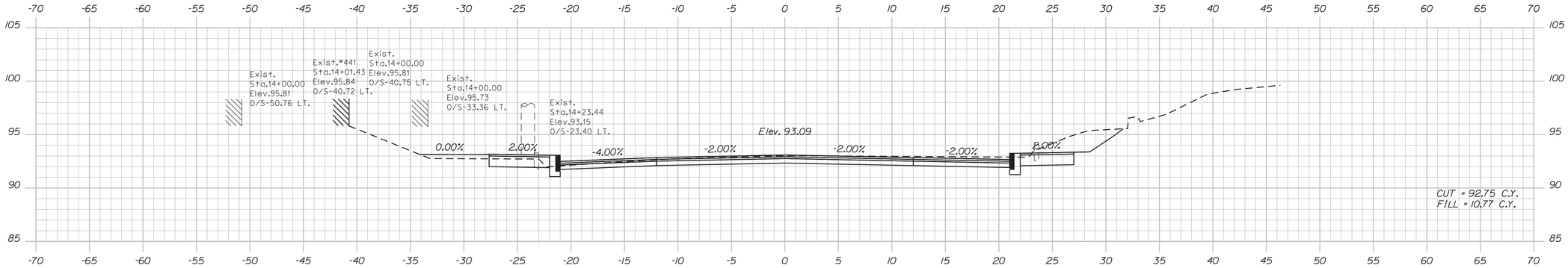
BIDDEFORD
MAIN STREET

CROSS SECTIONS

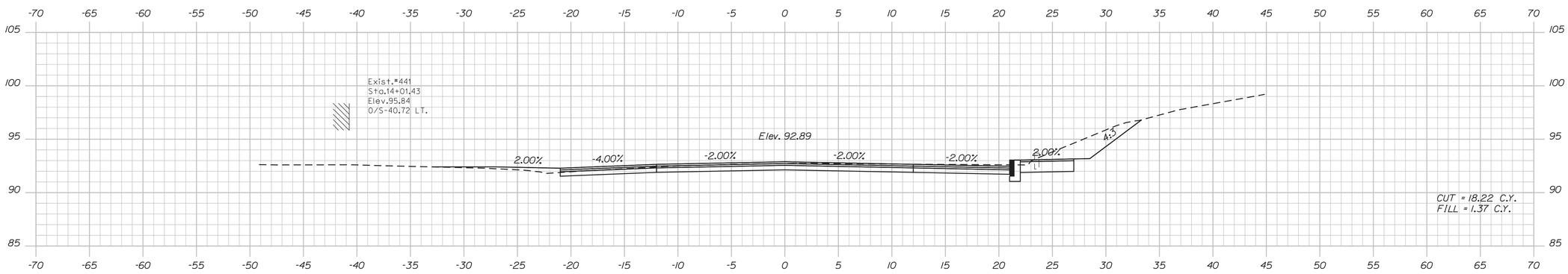
SHEET NUMBER
14
OF 37

Sta. 13+00.00 to Sta. 13+37.00

Filename: ...\MSTA\014_XSECT_13+00_004.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



14+00.00



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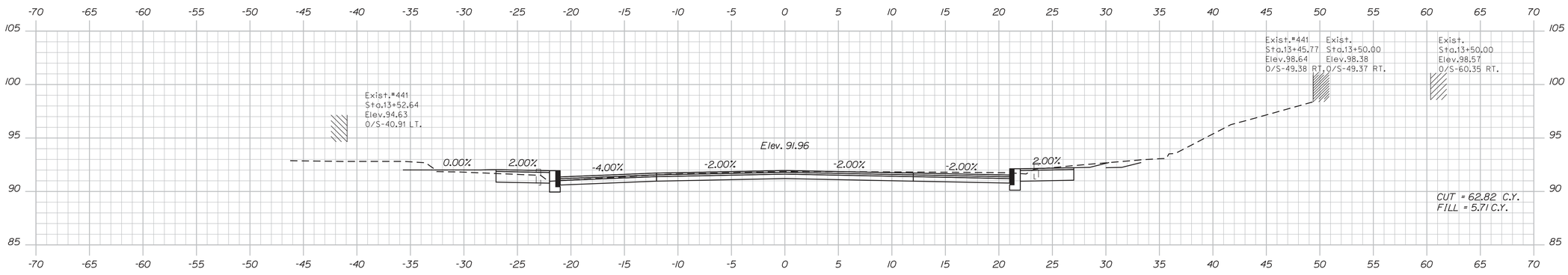


13+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY	T. WHITE	DEC 2014
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

CROSS SECTIONS

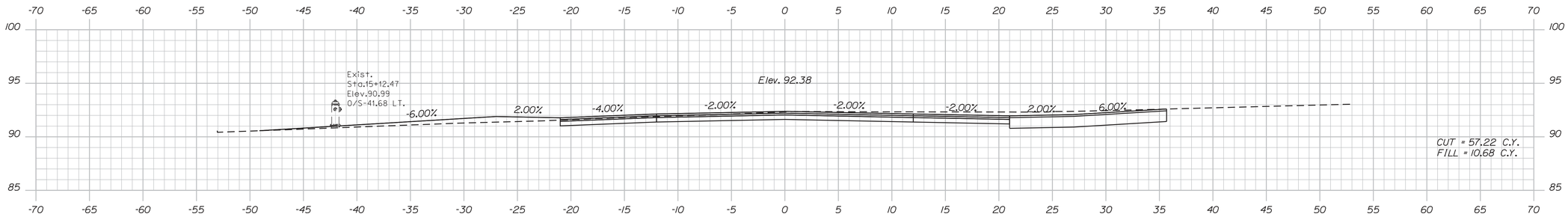
SHEET NUMBER

15

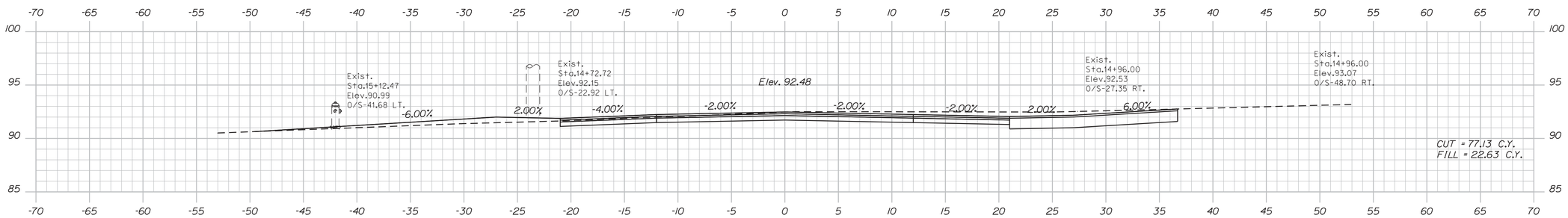
OF 37

Sta. 13+50.00 to Sta. 14+00.00

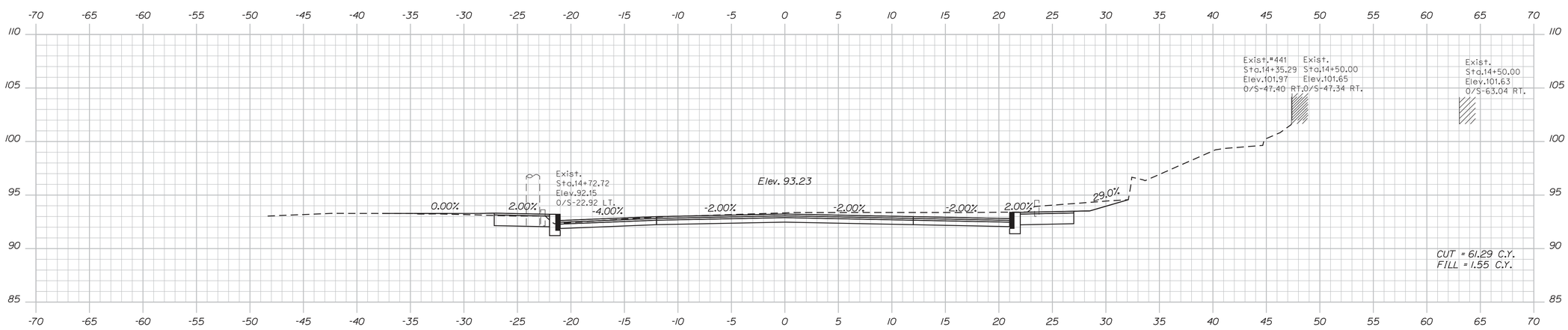
Filename: ...\MSTA\015_XSECT_13+50_005.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



15+00.00



14+96.00



14+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

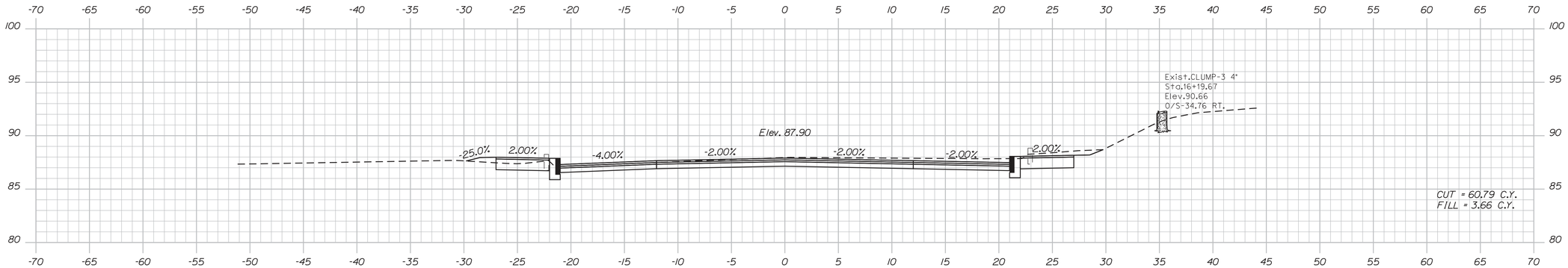
BIDDEFORD
MAIN STREET

CROSS SECTIONS

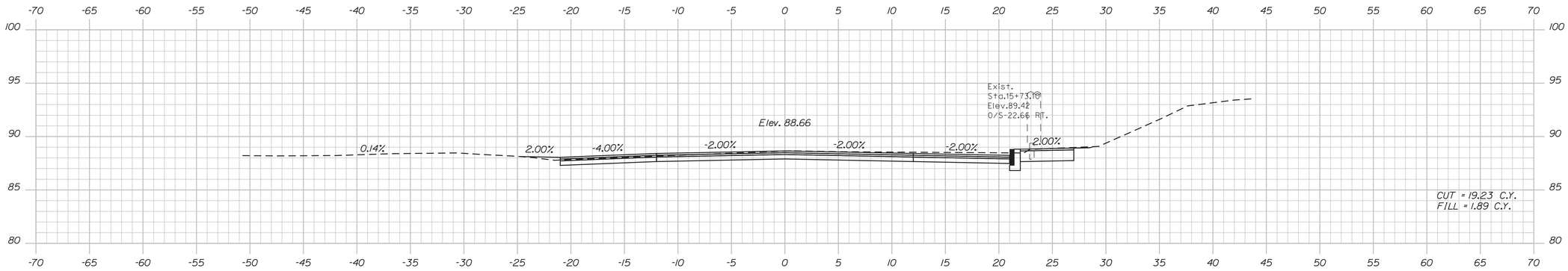
SHEET NUMBER
16
OF 37

Sta. 14+50.00 to Sta. 15+00.00

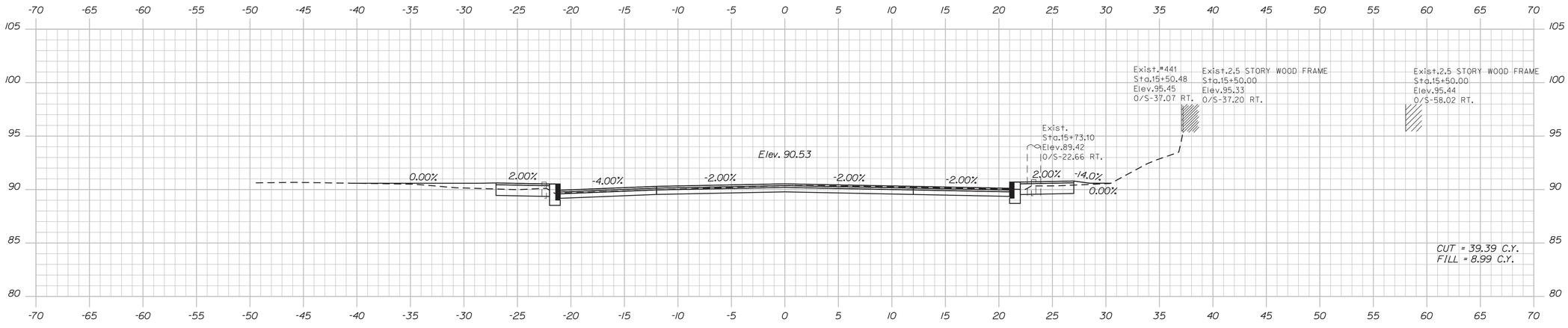
Filename: ...\MSTA\016_XSECT_14+50_006.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



16+00.00



15+86.00



15+50.00

Sta. 15+50.00 to Sta. 16+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE	SIGNATURE
PROJ. MANAGER		R. BETZ		
DESIGN-DETAILED	K. GRAY			
CHECKED-REVIEWED				
DESIGN2-DETAILED2	S.HAYDEN			
DESIGN3-DETAILED3		T.WHITE	DEC 2014	
REVISIONS 1				P.E. NUMBER
REVISIONS 2				
REVISIONS 3				DATE
REVISIONS 4				
FIELD CHANGES				

BIDDEFORD
MAIN STREET

CROSS SECTIONS

SHEET NUMBER
17
OF 37

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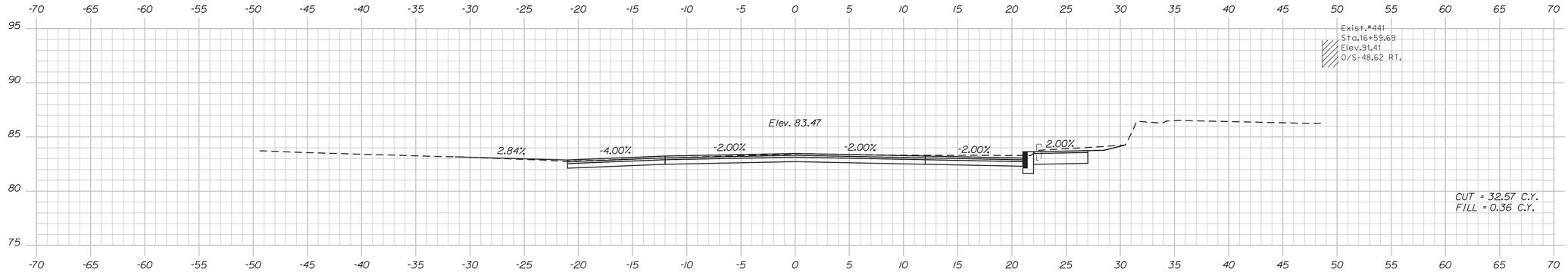
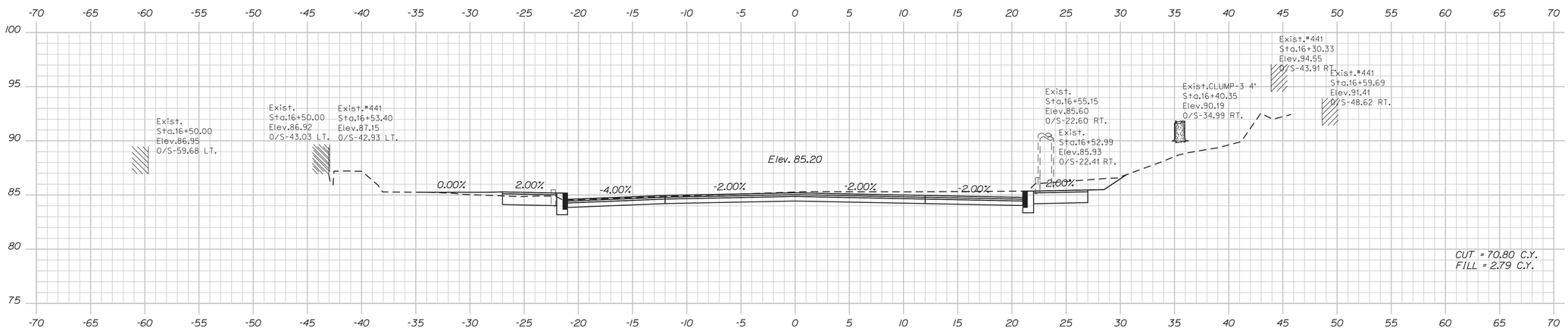
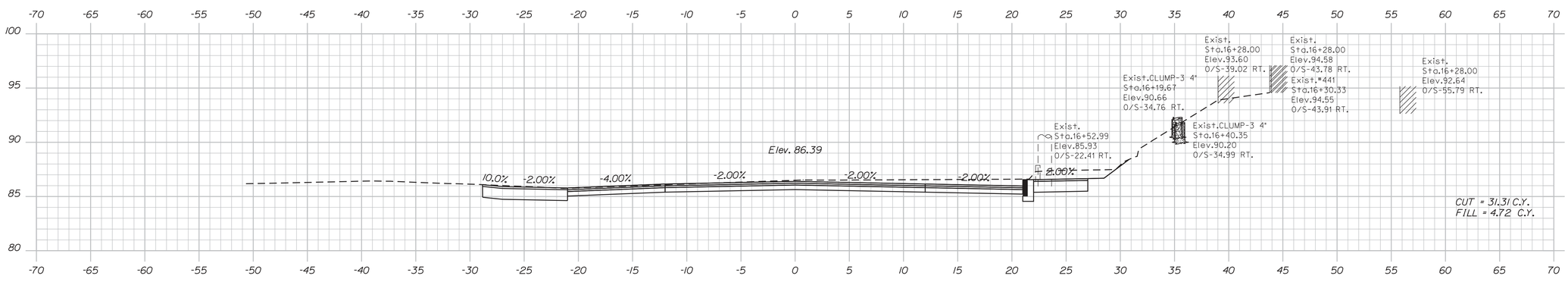


16+82.00



16+50.00



16+28.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

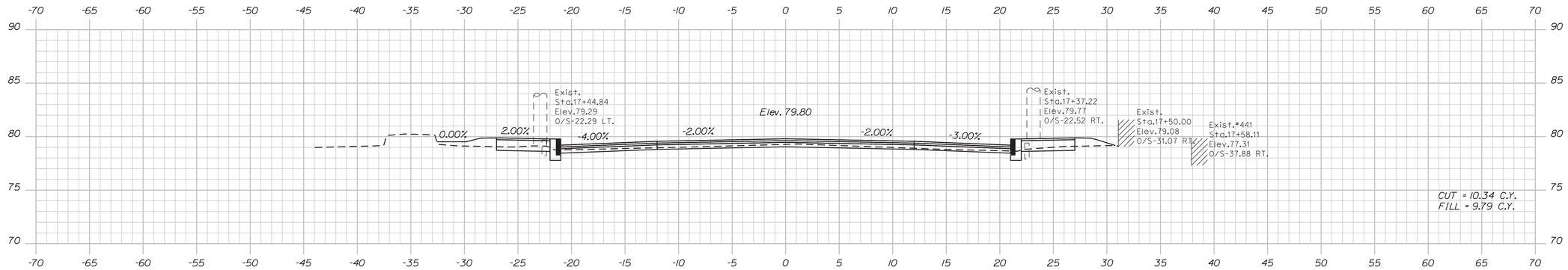
BIDDEFORD
MAIN STREET

CROSS SECTIONS

SHEET NUMBER
18
OF 37

Sta. 16+28.00 to Sta. 16+82.00

Filename: ...\MSTA\018_XSECT_16+28_008.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



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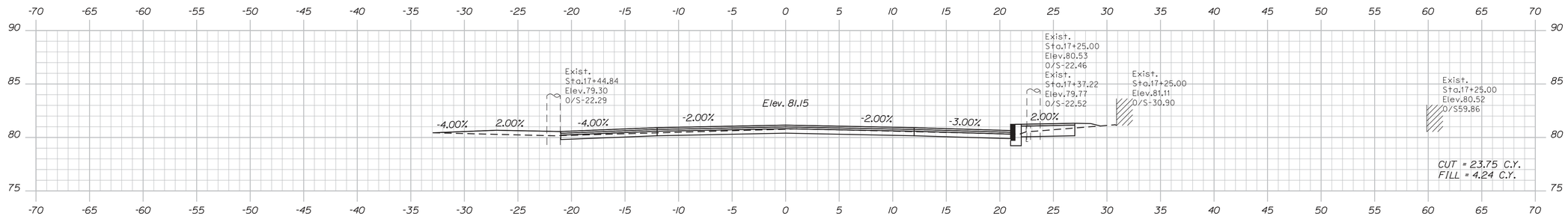

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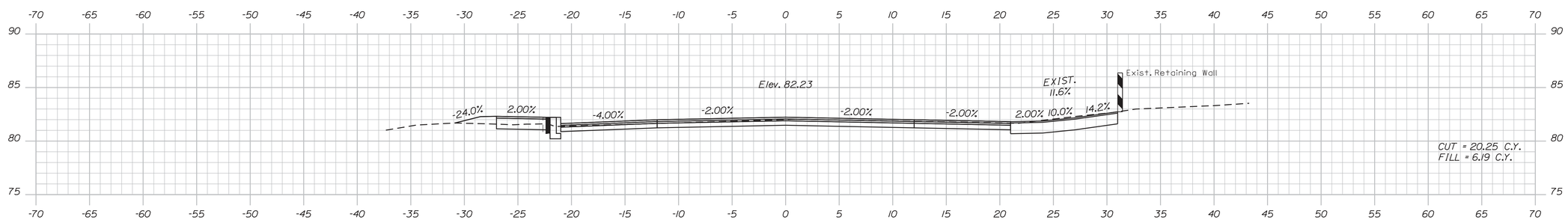
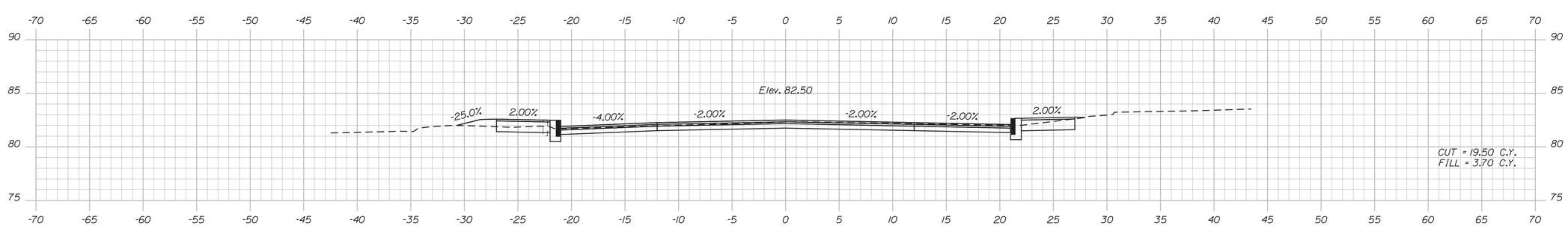


17+05.00



17+00.00

Sta. 17+00.00 to Sta. 17+76.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

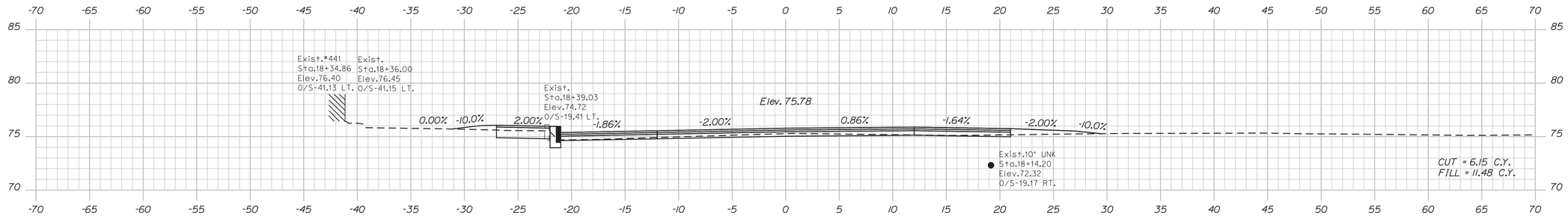
DATE

BIDDEFORD
MAIN STREET

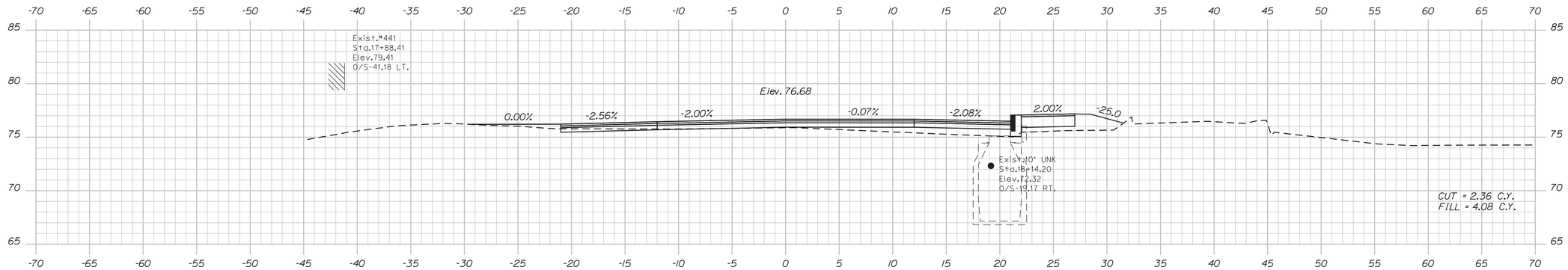
CROSS SECTIONS

SHEET NUMBER
19
OF 37

Filename: ...\MSTA\019_XSECT_17+00_009.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



18+36.00



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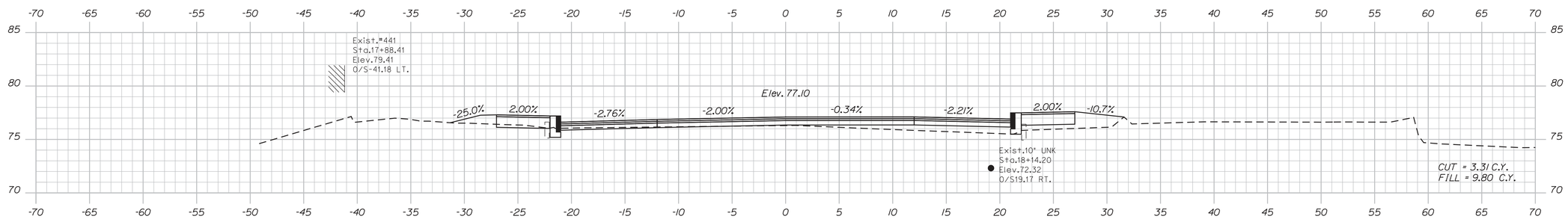

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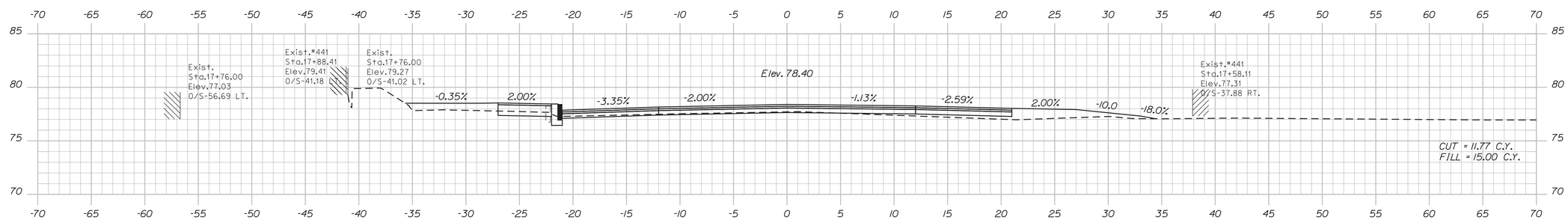


17+76.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

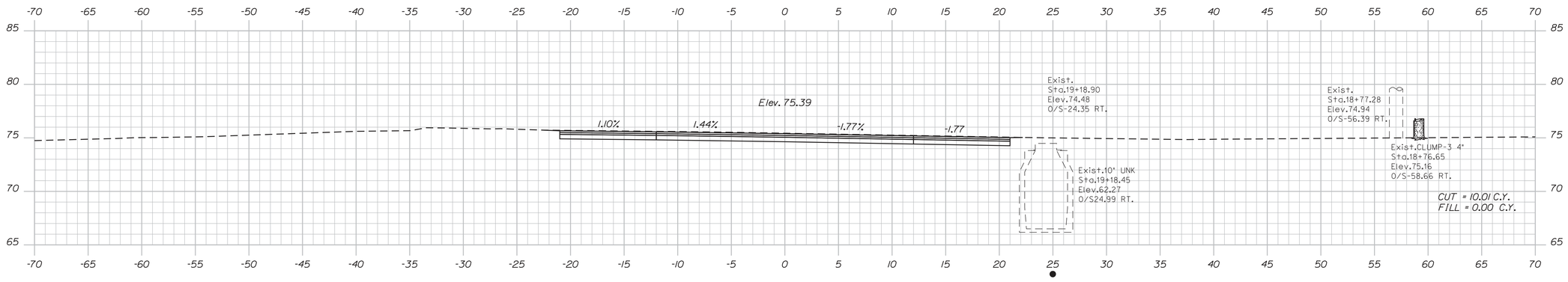
BIDDEFORD
MAIN STREET

CROSS SECTIONS

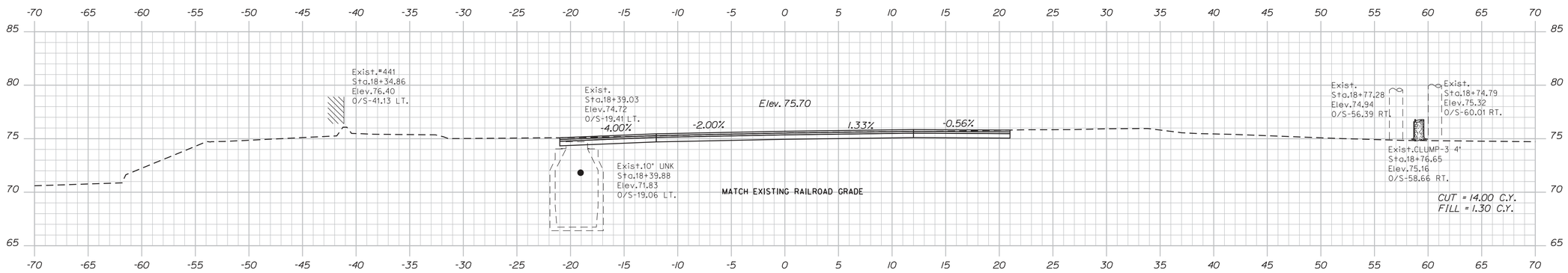
SHEET NUMBER
20
OF 37

Sta. 18+00.00 to Sta. 18+36.00

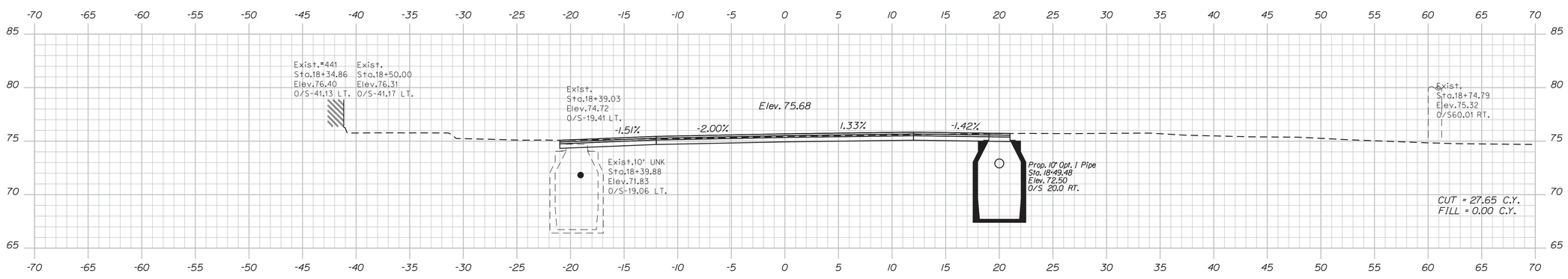
Filename: ...\MSTA\020_XSECT_18+00_010.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



19+00.00



18+56.00



18+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE	SIGNATURE
DESIGN-DETAILED	K. GRAY	T. WHITE	DEC 2014	
CHECKED-REVIEWED	S.HAYDEN			P.E. NUMBER
DESIGN2-DETAILED2				
DESIGN3-DETAILED3				DATE
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

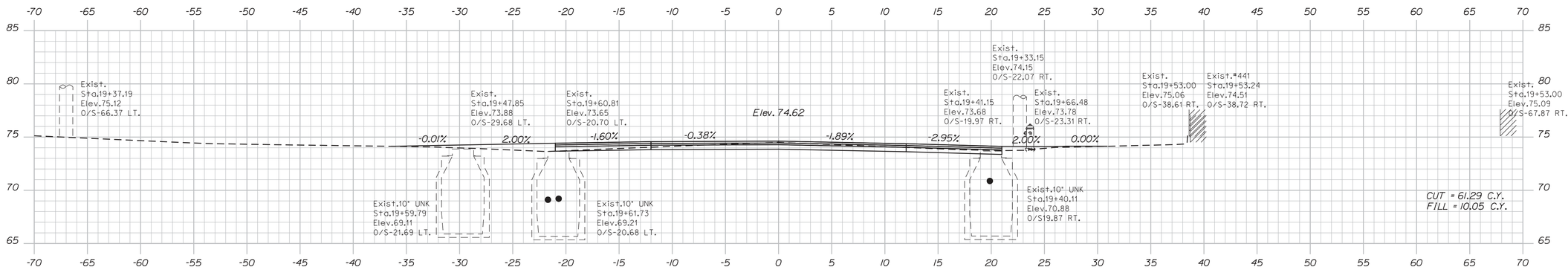
BIDDEFORD
MAIN STREET

CROSS SECTIONS

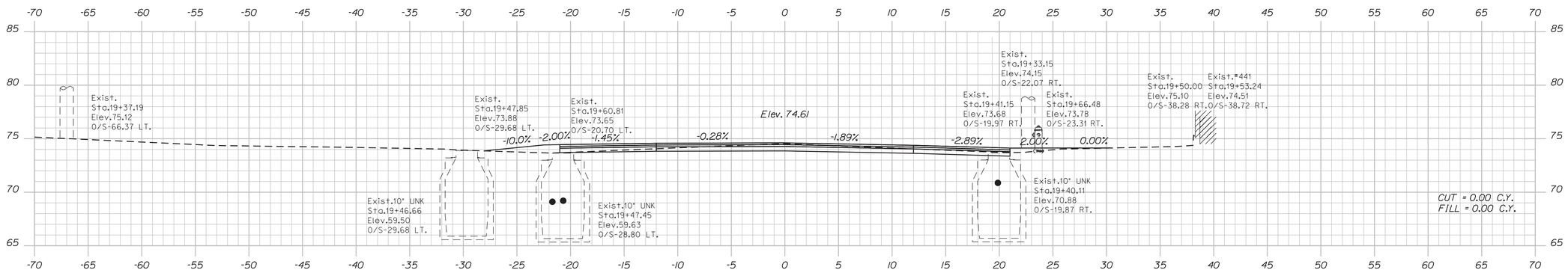
SHEET NUMBER
21
OF 37

Sta. 18+50.00 to Sta. 19+00.00

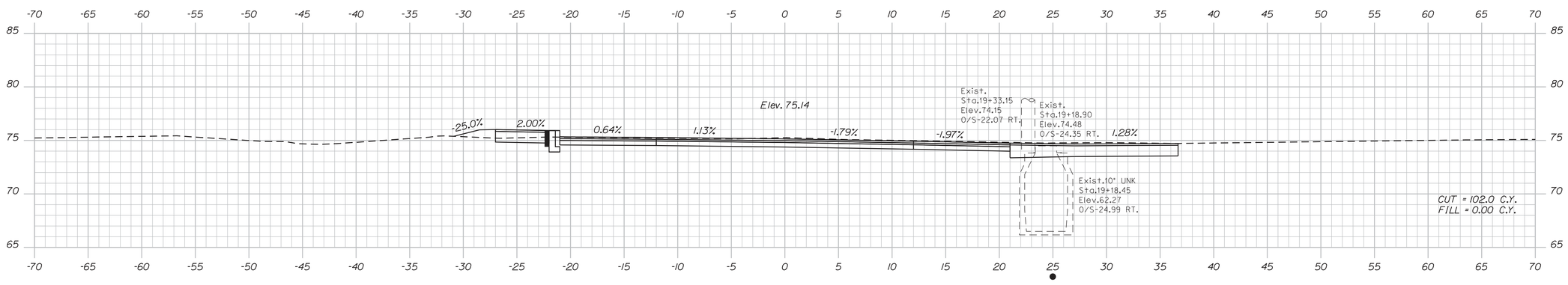
Filename: ...\MSTA\021_XSECT_18+50_011.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



19+53.00



19+50.00



19+09.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

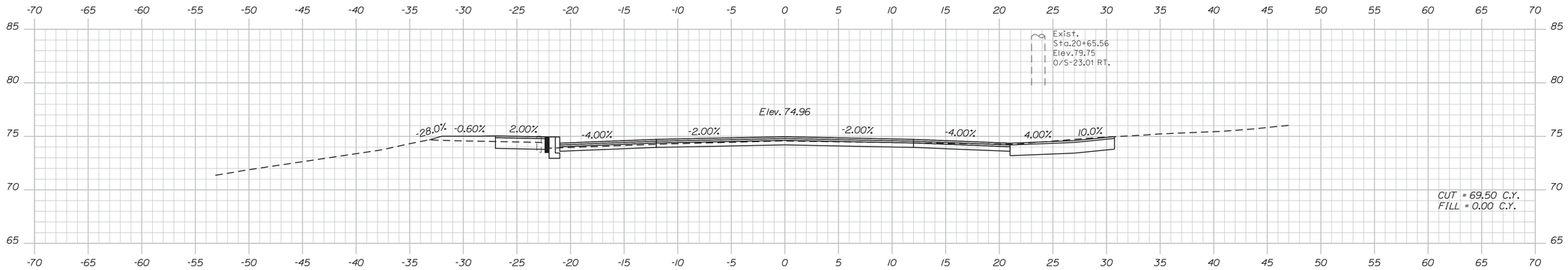
BIDDEFORD
MAIN STREET

CROSS SECTIONS

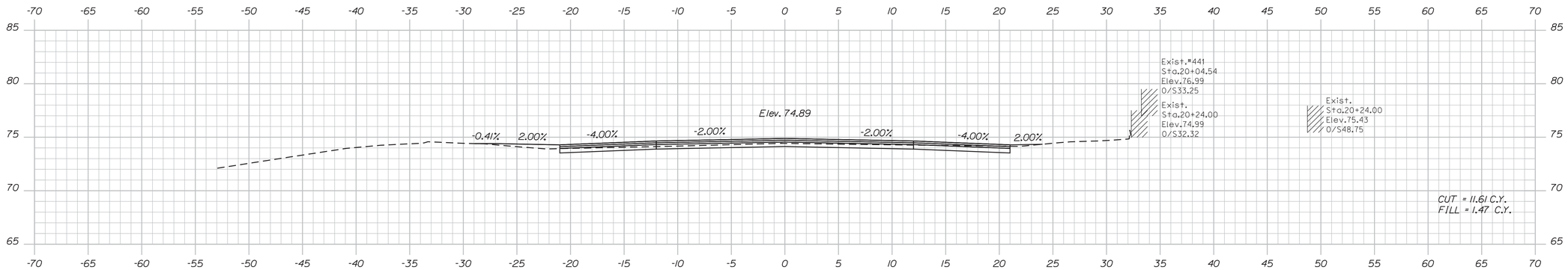
SHEET NUMBER
22
OF 37

Sta. 19+09.00 to Sta. 19+53.00

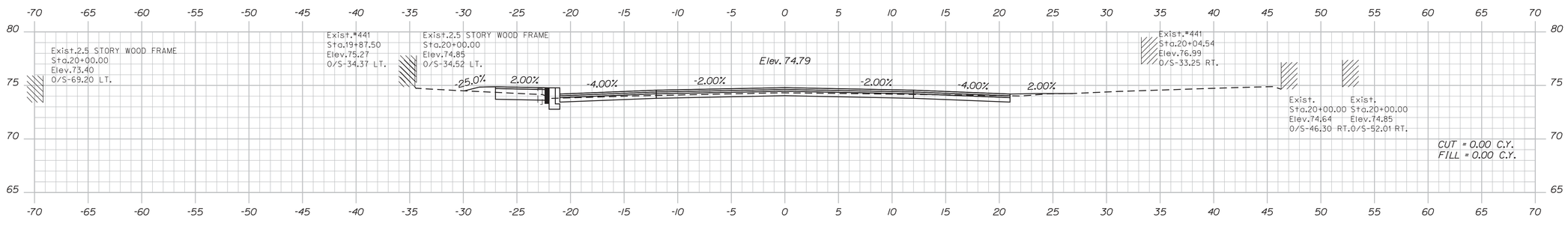
Filename: ...\MSTA\022_XSECT_19+09_012.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



20+43.00



20+24.00



20+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T. WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

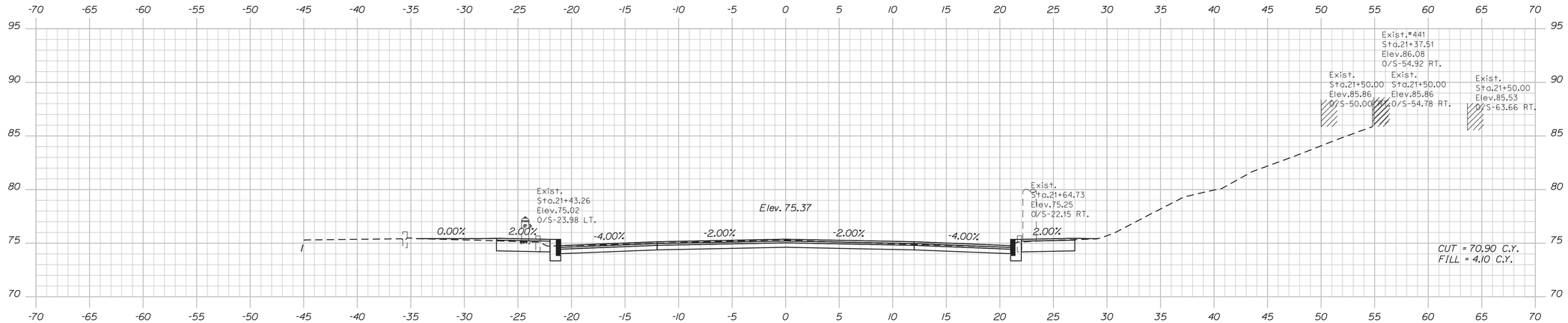
BIDDEFORD
MAIN STREET

CROSS SECTIONS

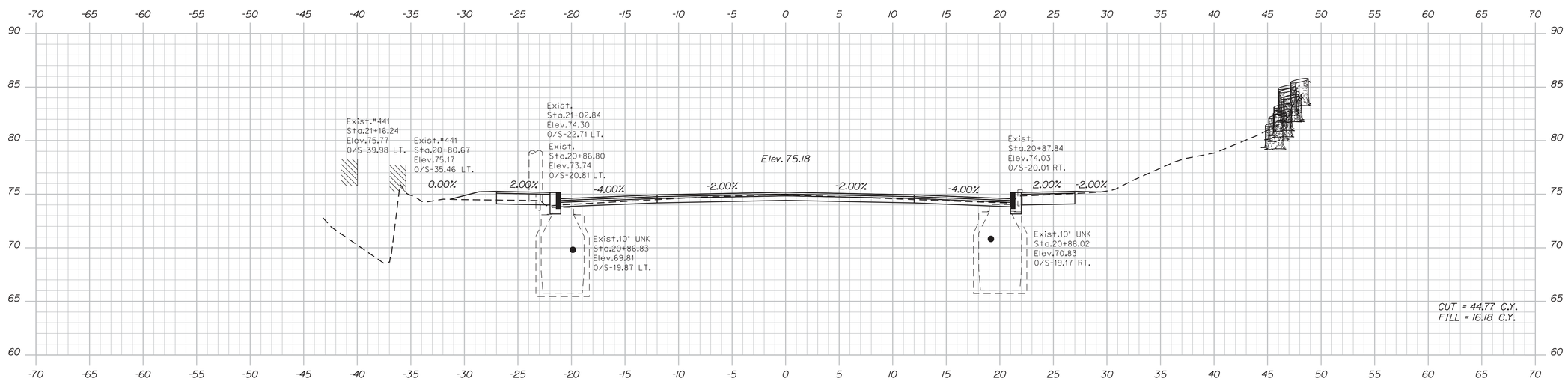
SHEET NUMBER
23
OF 37

Sta. 20+00.00 to Sta. 20+50.00

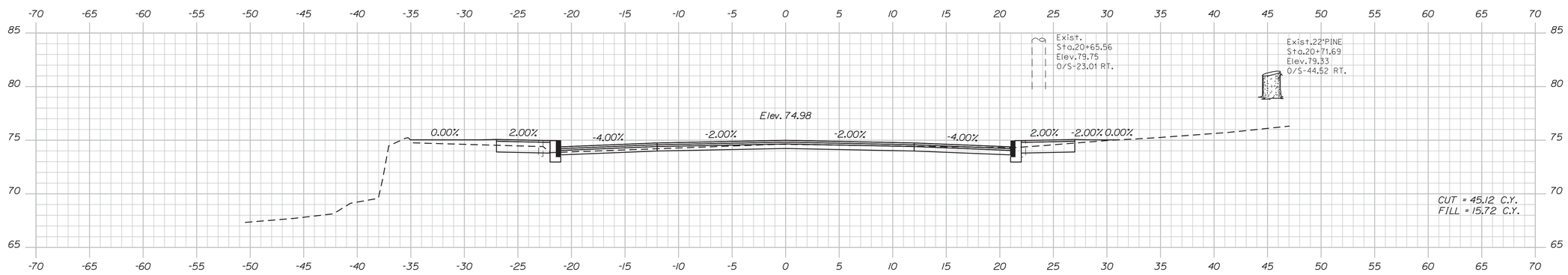
Filename: ...\MSTA\023_XSECT_20+00_013.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



21+50.00



21+00.00



20+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		SIGNATURE
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			P.E. NUMBER
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			DATE
REVISIONS 4			
FIELD CHANGES			

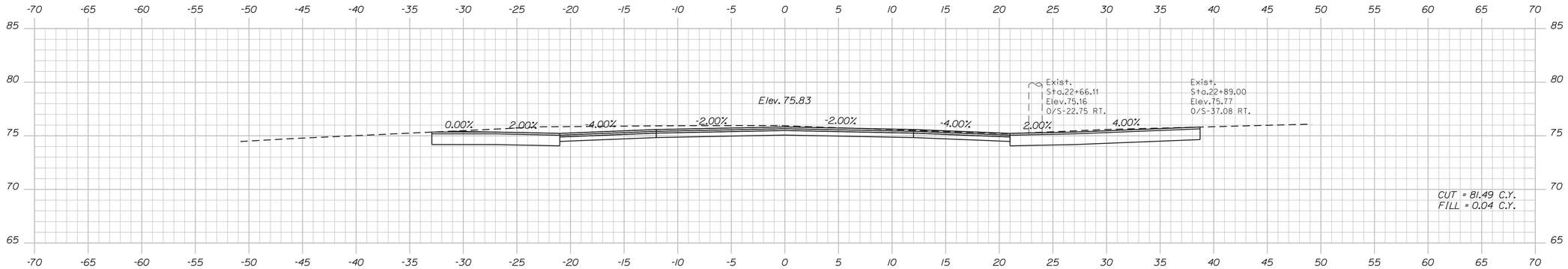
BIDDEFORD
MAIN STREET

CROSS SECTIONS

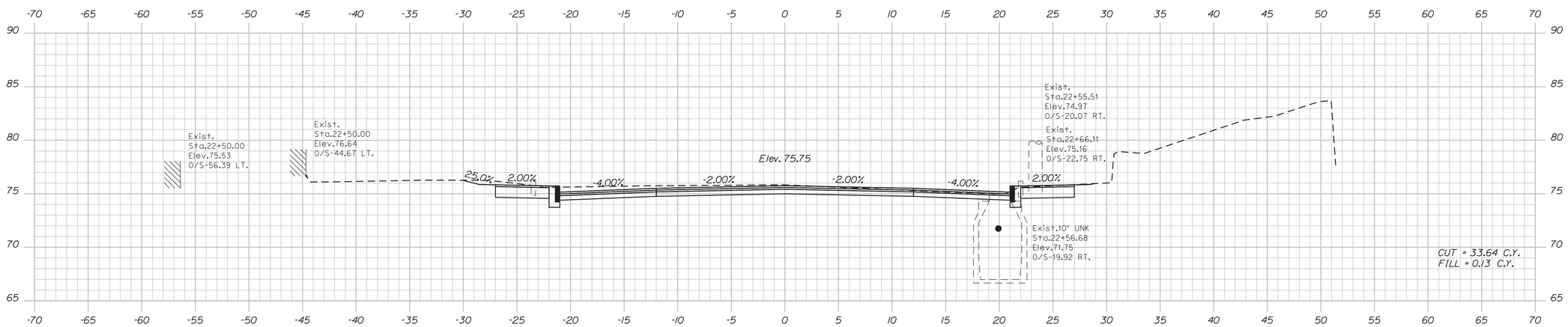
SHEET NUMBER
24
OF 37

Sta. 21+00.00 to Sta. 21+50.00

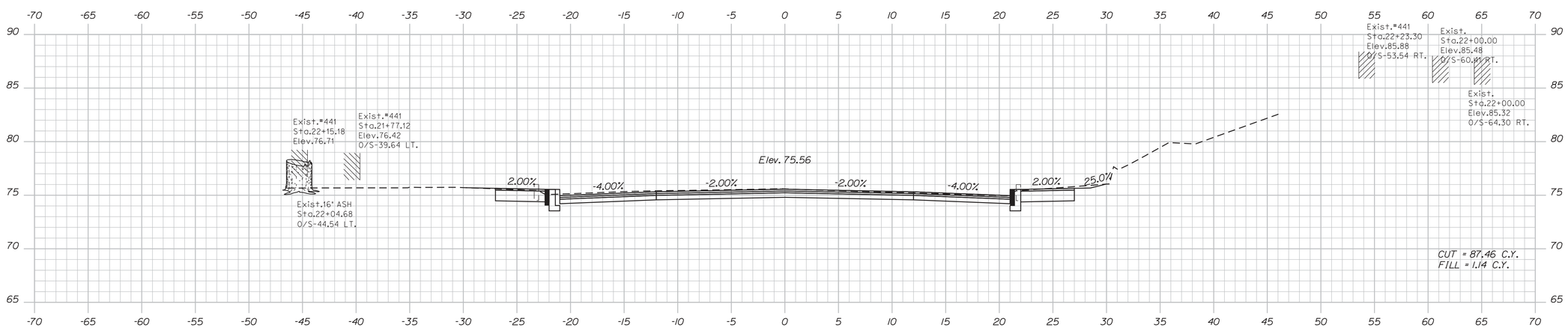
Filename: ...\MSTA\024_XSECT_21+00_014.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



22+89.00



22+50.00



22+00.00

Sta. 22+00.00 to Sta. 22+89.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

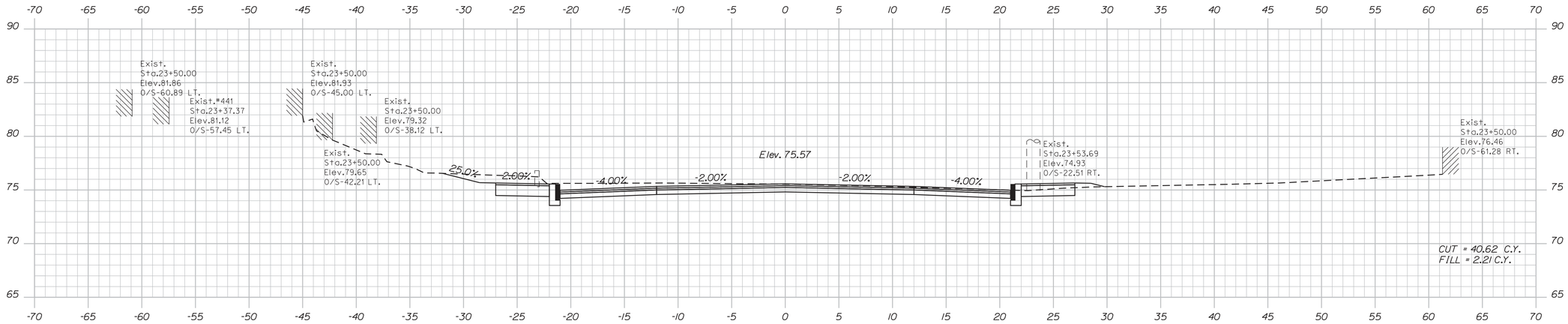
		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			SIGNATURE
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			P.E. NUMBER
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
FIELD CHANGES			

BIDDEFORD
MAIN STREET

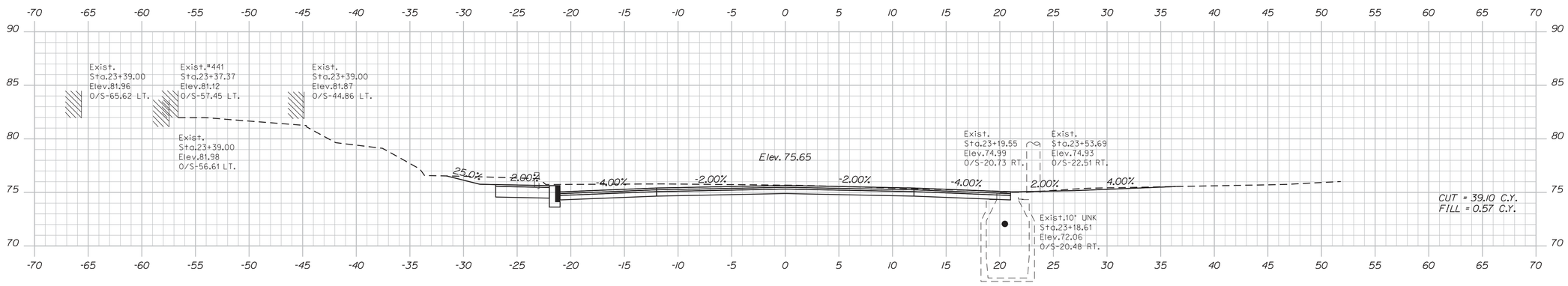
CROSS SECTIONS

SHEET NUMBER
25
OF 37

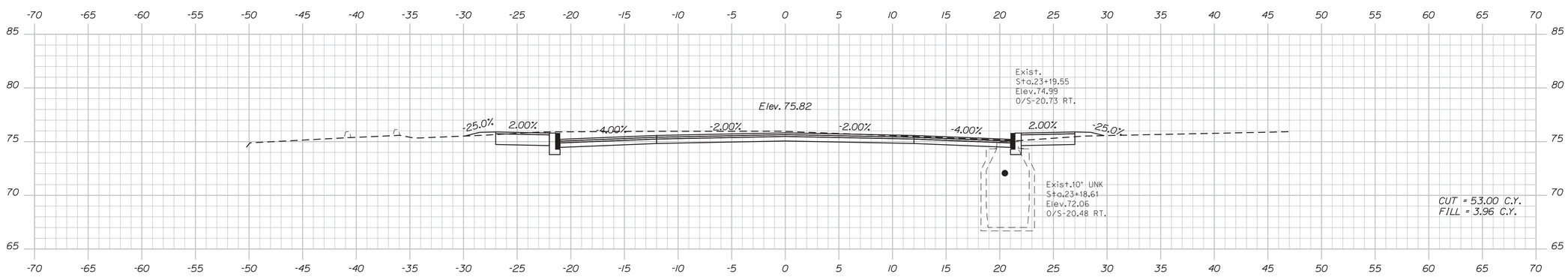
Filename: ...\MSTA\025_XSECT_22+00_015.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



23+50.00



23+39.00



23+00.00

Sta. 23+00.00 to Sta. 23+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

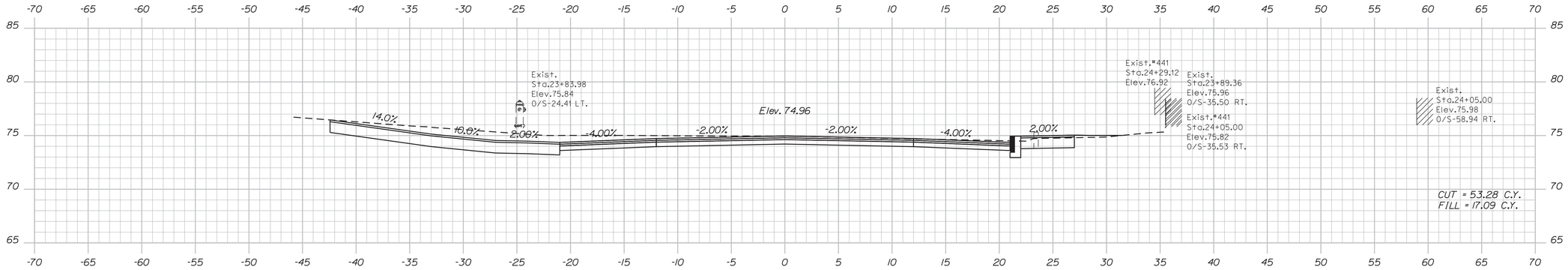
DATE

BIDDEFORD
MAIN STREET

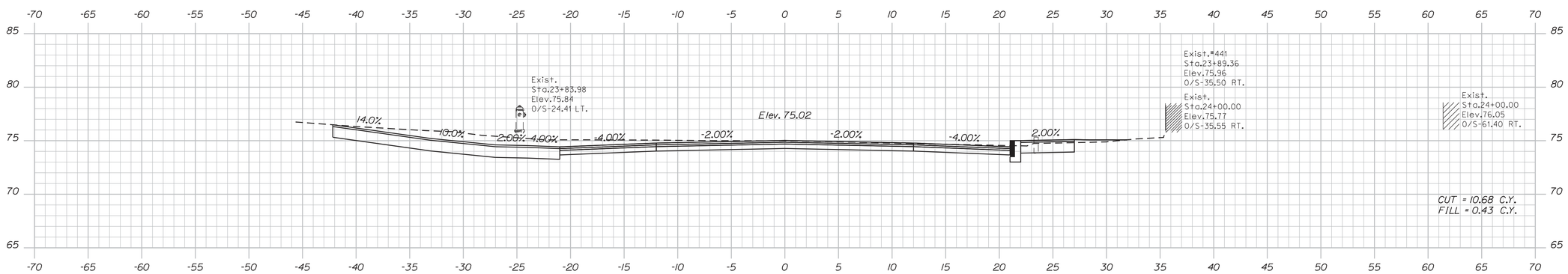
CROSS SECTIONS

SHEET NUMBER
26
OF 37

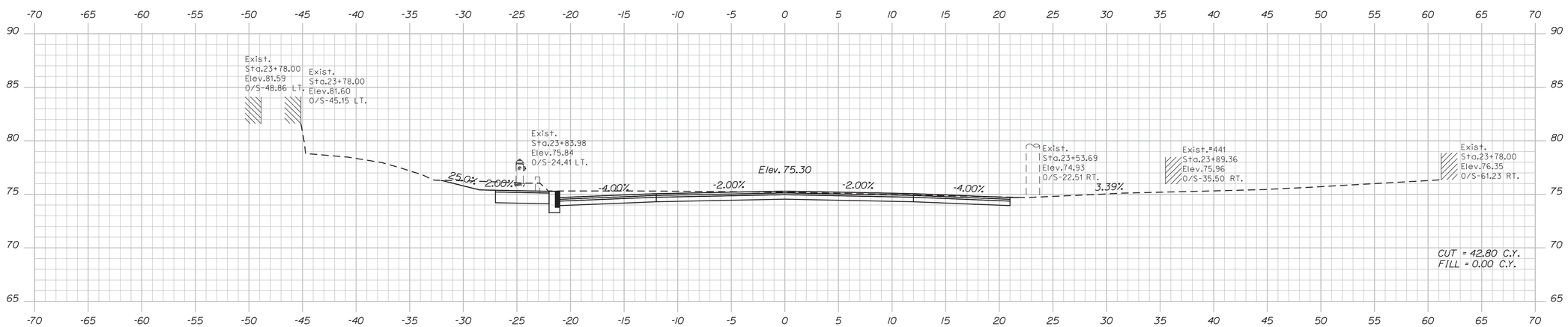
Filename: ...\MSTA\026_XSECT_23-00_016.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



24+05.00



24+00.00



23+78.00

Sta. 23+78.00 to Sta. 24+05.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED	S.HAYDEN	T.WHITE	DEC 2014
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

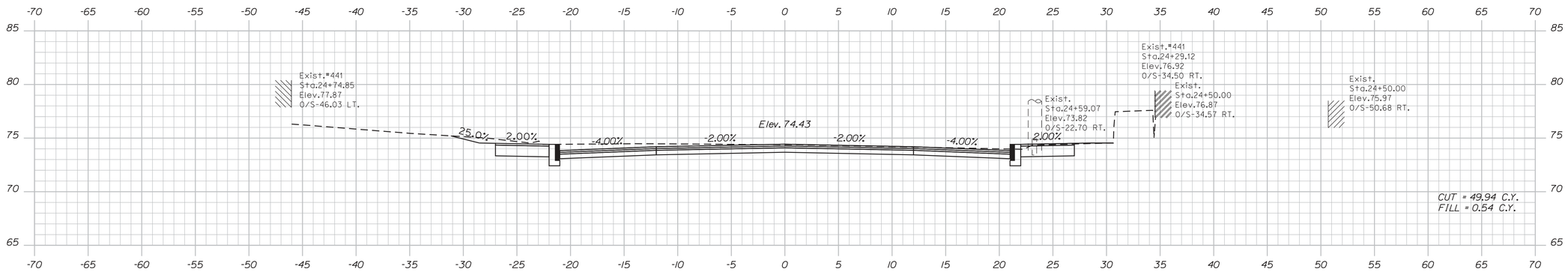
DATE

BIDDEFORD
MAIN STREET

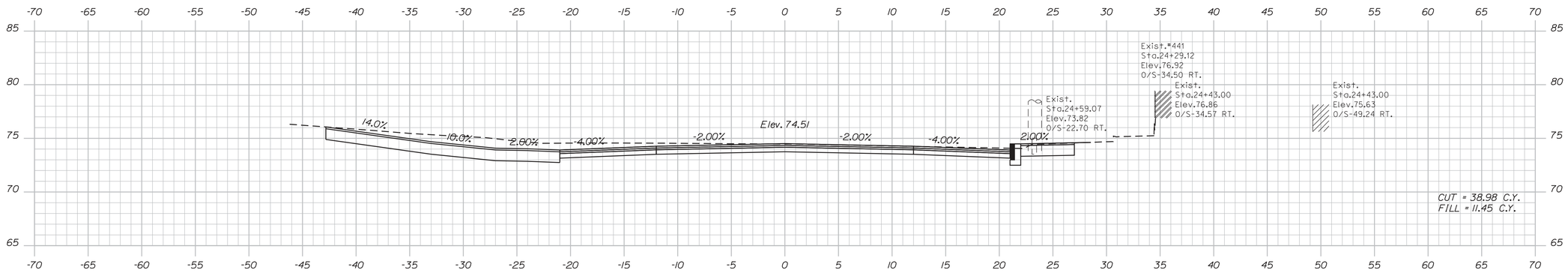
CROSS SECTIONS

SHEET NUMBER
27
OF 37

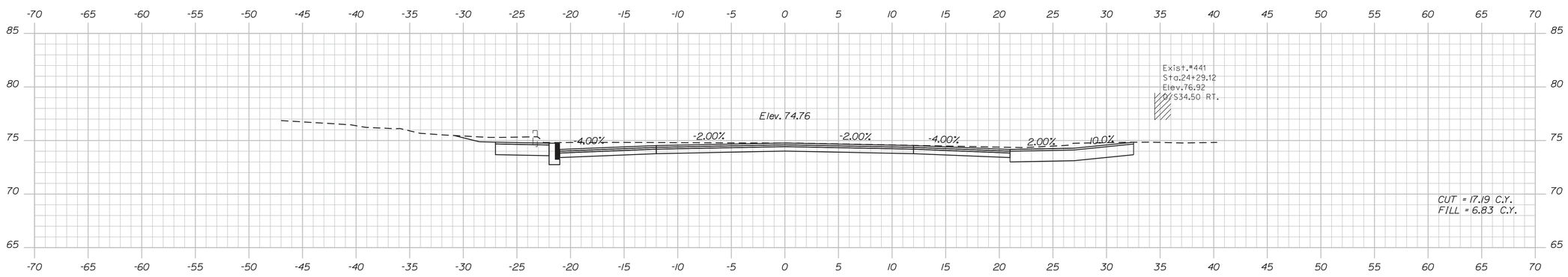
Filename: ...\MSTA\027_XSECT_23+78_017.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



24+50.00



24+43.00



24+21.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

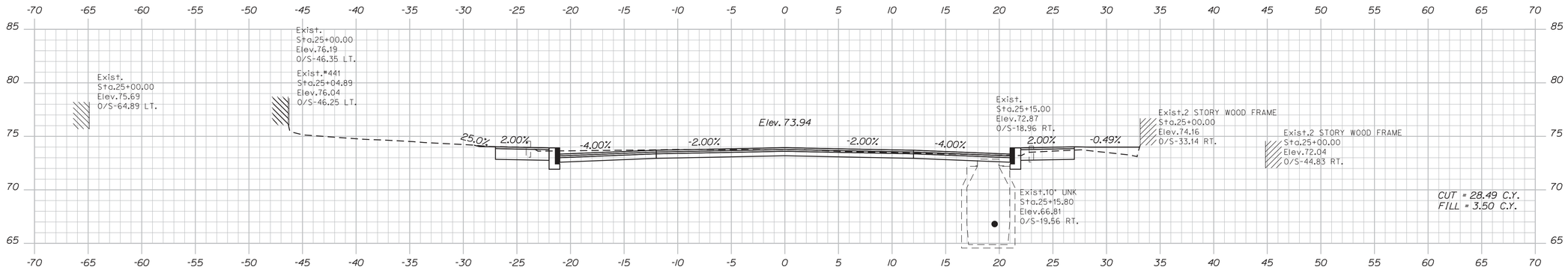
BIDDEFORD
MAIN STREET

CROSS SECTIONS

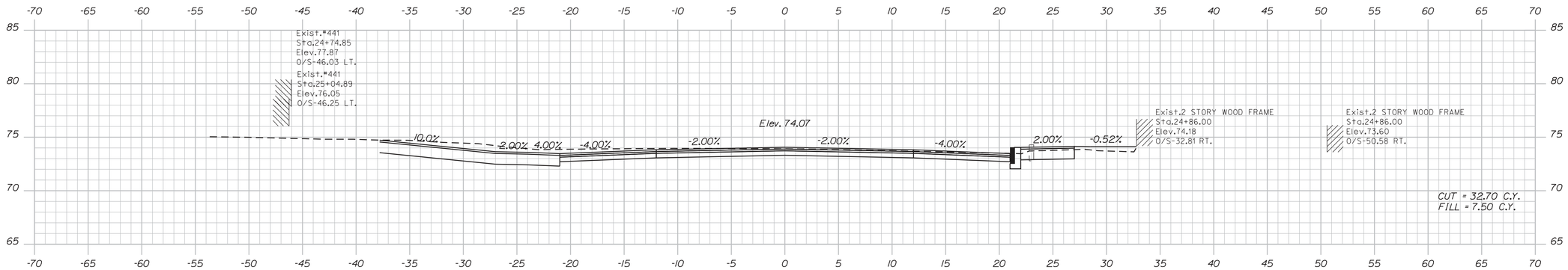
SHEET NUMBER
28
OF 37

Sta. 24+21.00 to Sta. 24+50.00

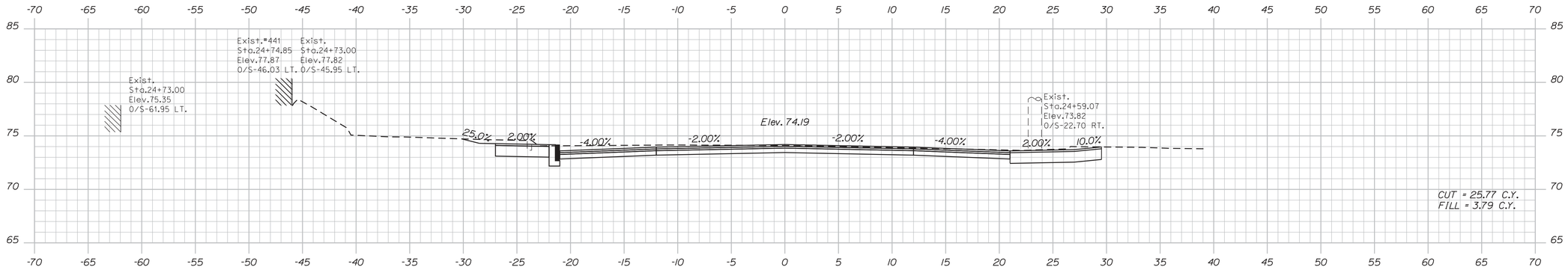
Filename: ...\MSTA\028_XSECT_24+21_018.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



25+00.00



24+86.00



24+73.00

Sta. 24+73.00 to Sta. 25+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY	T. WHITE	DEC 2014
CHECKED-REVIEWED	S.HAYDEN		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

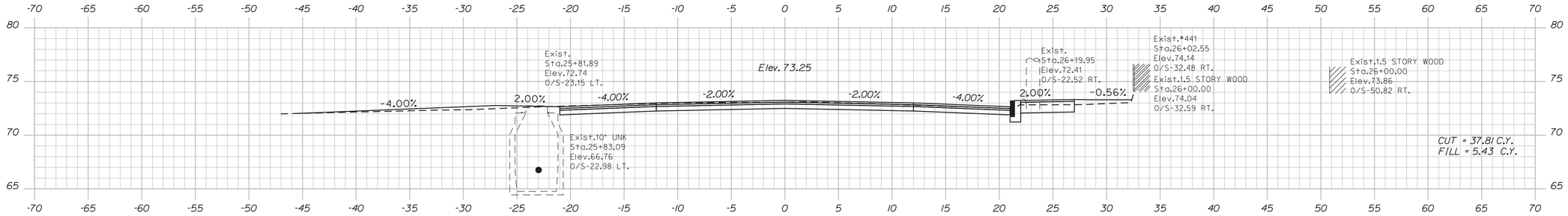
CROSS SECTIONS

SHEET NUMBER

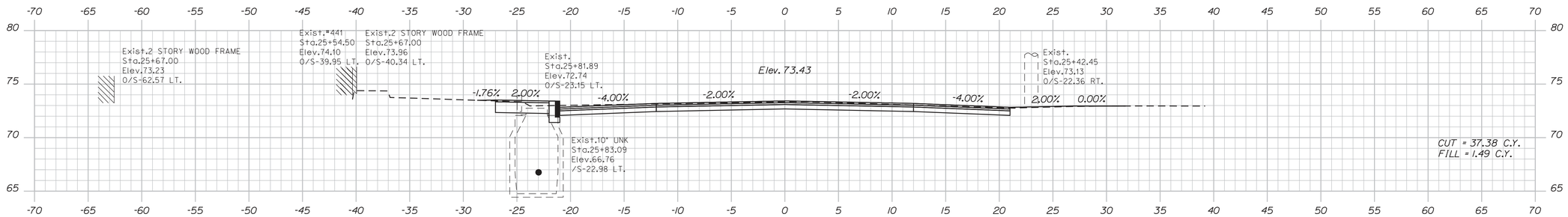
29

OF 37

Filename: ...\MSTA\029_XSECT_24+73_019.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



26+00.00



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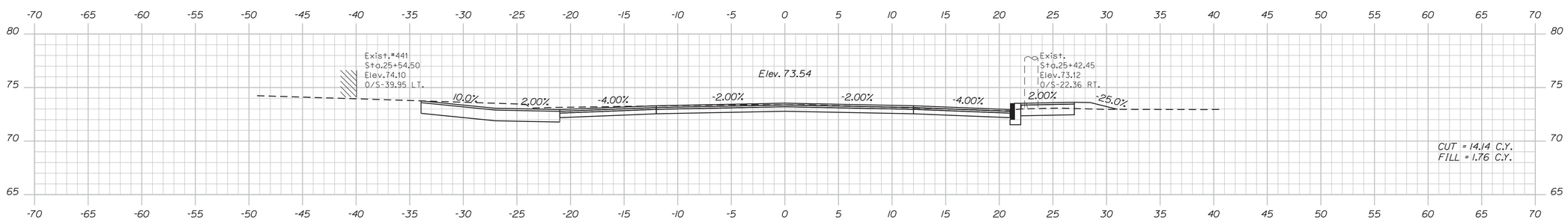
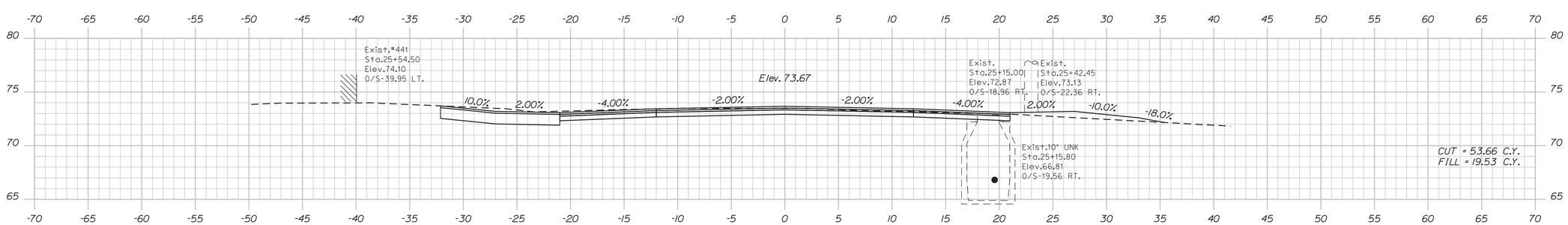


25+50.00



25+32.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

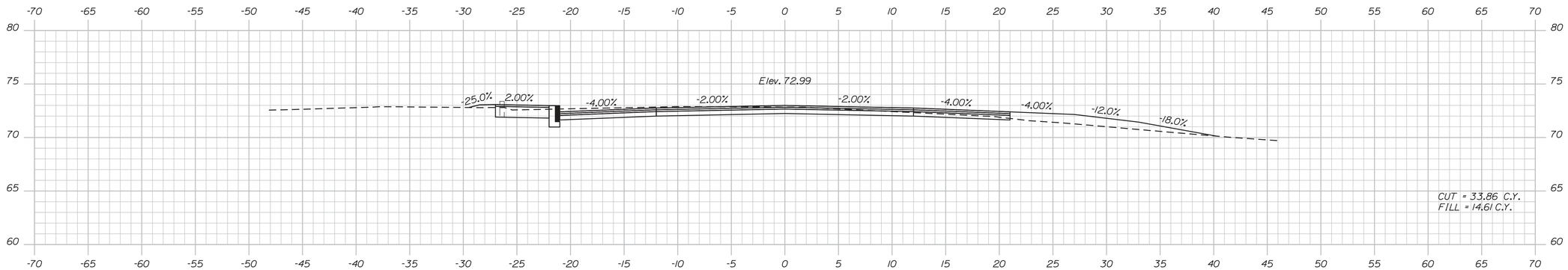
BIDDEFORD
MAIN STREET

CROSS SECTIONS

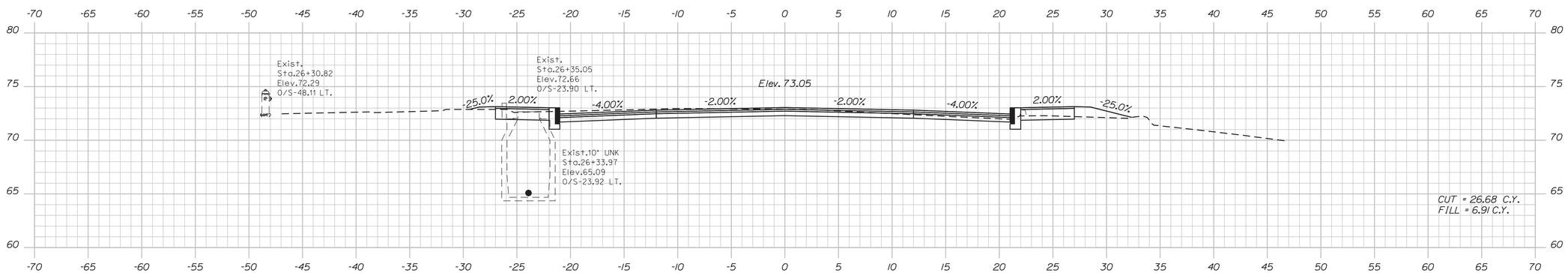
SHEET NUMBER
30
OF 37

Sta. 25+32.00 to Sta. 26+00.00

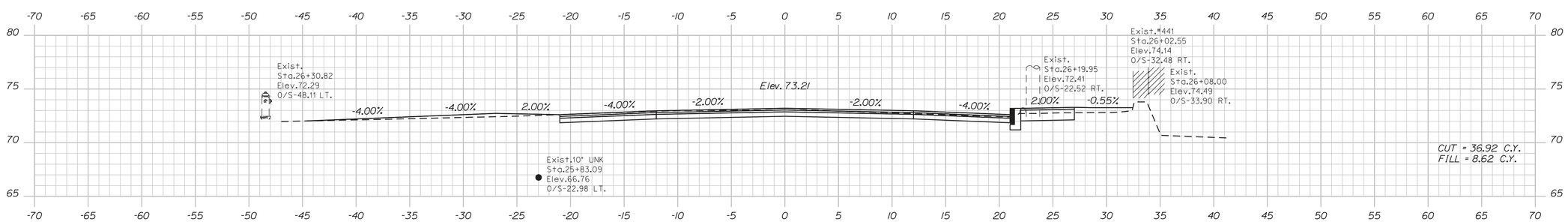
Filename: ...\MSTA\030_XSECT_25+32_020.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



26+71.00



26+50.00



26+08.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

PROJ. MANAGER	R. BETZ	BY	DATE
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			SIGNATURE
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			P.E. NUMBER
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
FIELD CHANGES			

BIDDEFORD
MAIN STREET

CROSS SECTIONS

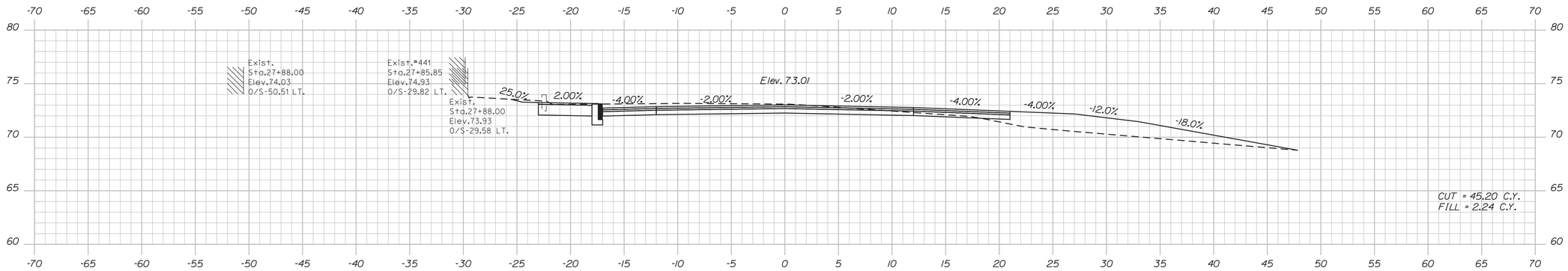
SHEET NUMBER

31

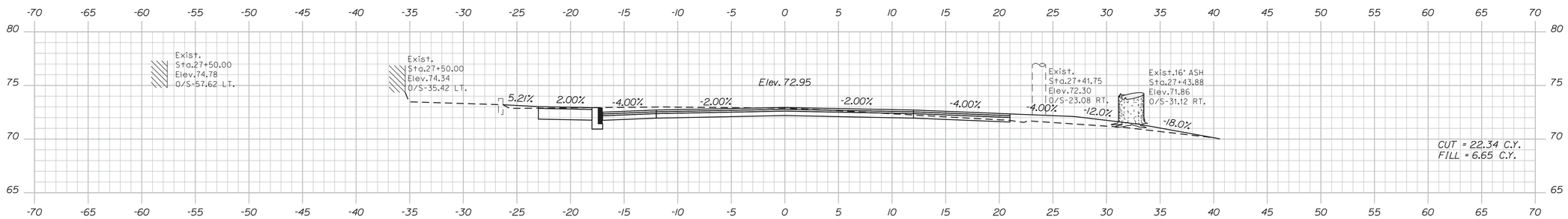
OF 37

Sta. 26+08.00 to Sta. 26+71.00

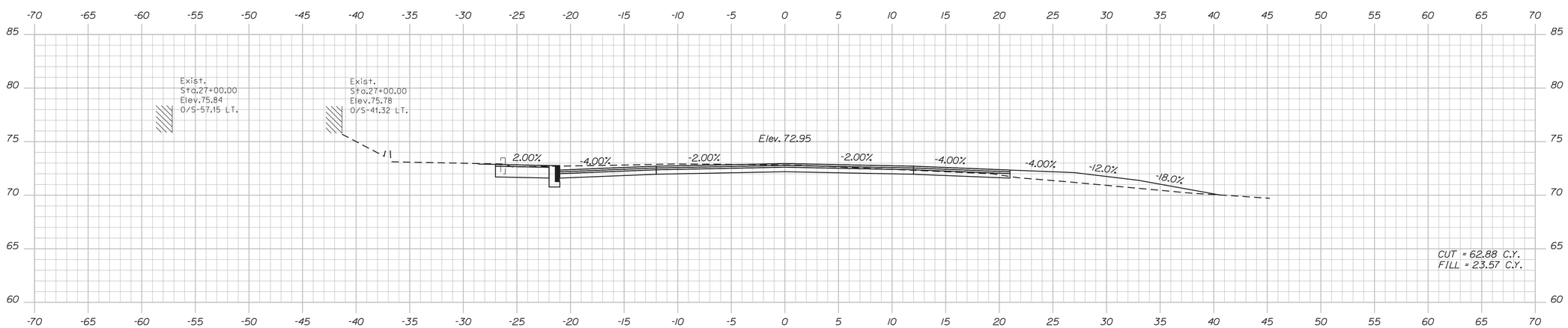
Filename: ...\MSTA\031_XSECT_26+08_021.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



27+88.00



27+50.00



27+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BETZ		
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

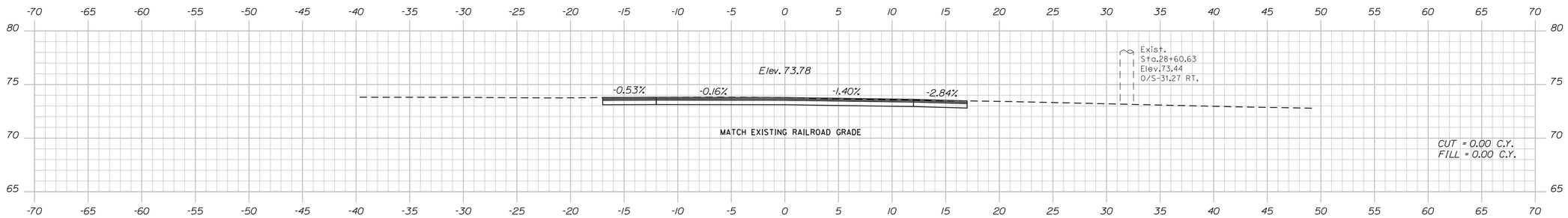
BIDDEFORD
MAIN STREET

CROSS SECTIONS

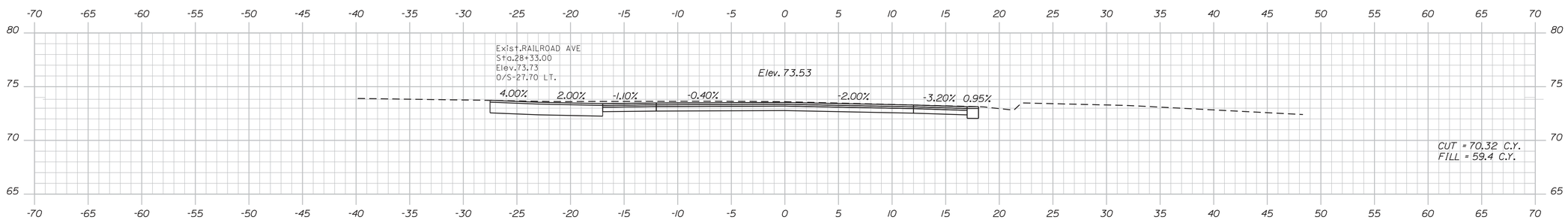
SHEET NUMBER
32
OF 37

Sta. 27+00.00 to Sta. 27+88.00

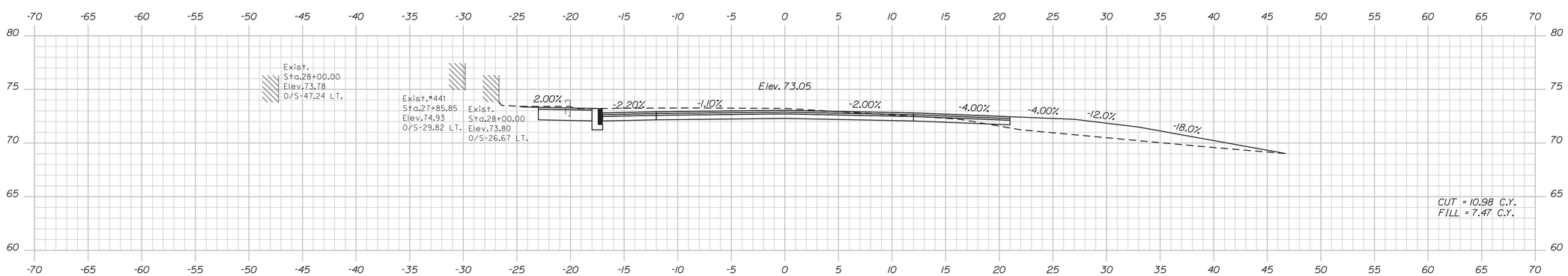
Filename: ...\MSTA\032_XSECT_27+00_022.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016



28+48.00



28+33.00



28+00.00

Sta. 28+00.00 to Sta. 28+48.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2029(110)

PIN
20291.10

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER		R. BETZ	
DESIGN-DETAILED	K. GRAY		
CHECKED-REVIEWED			
DESIGN2-DETAILED2	S.HAYDEN	T.WHITE	DEC 2014
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BIDDEFORD
MAIN STREET

CROSS SECTIONS

SHEET NUMBER
33
OF 37

Filename: ...\MSTA\033_XSECT_28+00_023.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

PLAN LEGEND

Town, County, State		New R/W Along Existing R/W		Existing / Proposed		Existing / Proposed	
Approx. Property Lines — P.L. —		Building	Clearing Limit Line — CLL —	Sanitary Sewer		Traveled Way	Cut Line — C — C — C — / Fill Line — F — F — F —
Existing Right of Way		Trees Conifer / Deciduous		Telephone Line		Ditch	Stonewall / Retaining Wall
Limits of Wrought Portion — L.O.W.P. —		Tree Line / Bush Line		Electric Line		Catch Basin	Baseline 10+00 11+00 12+00
Control Of Access — C.O.A. —		Water Edge		Water Line		Manhole	Monument / Traverse Point
New Right of Way		Ledge / Rock/Boulder	Flag Pole	Underdrain Line		Sewer Manhole	Iron Rod Found ● IRF / Pipe Found ● IPF
New Easement		Fence: CHAIN LINK / BARB WIRE / STOCKADE		Gas Line		Utility Pole	Replacement Pin Set
New Temporary Rights		Sign	Well / WELL / Mailbox	Guardrail		Fire Hydrant	
New R/W Within Existing R/W				Culvert		Curbing	

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at ____h____m____M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

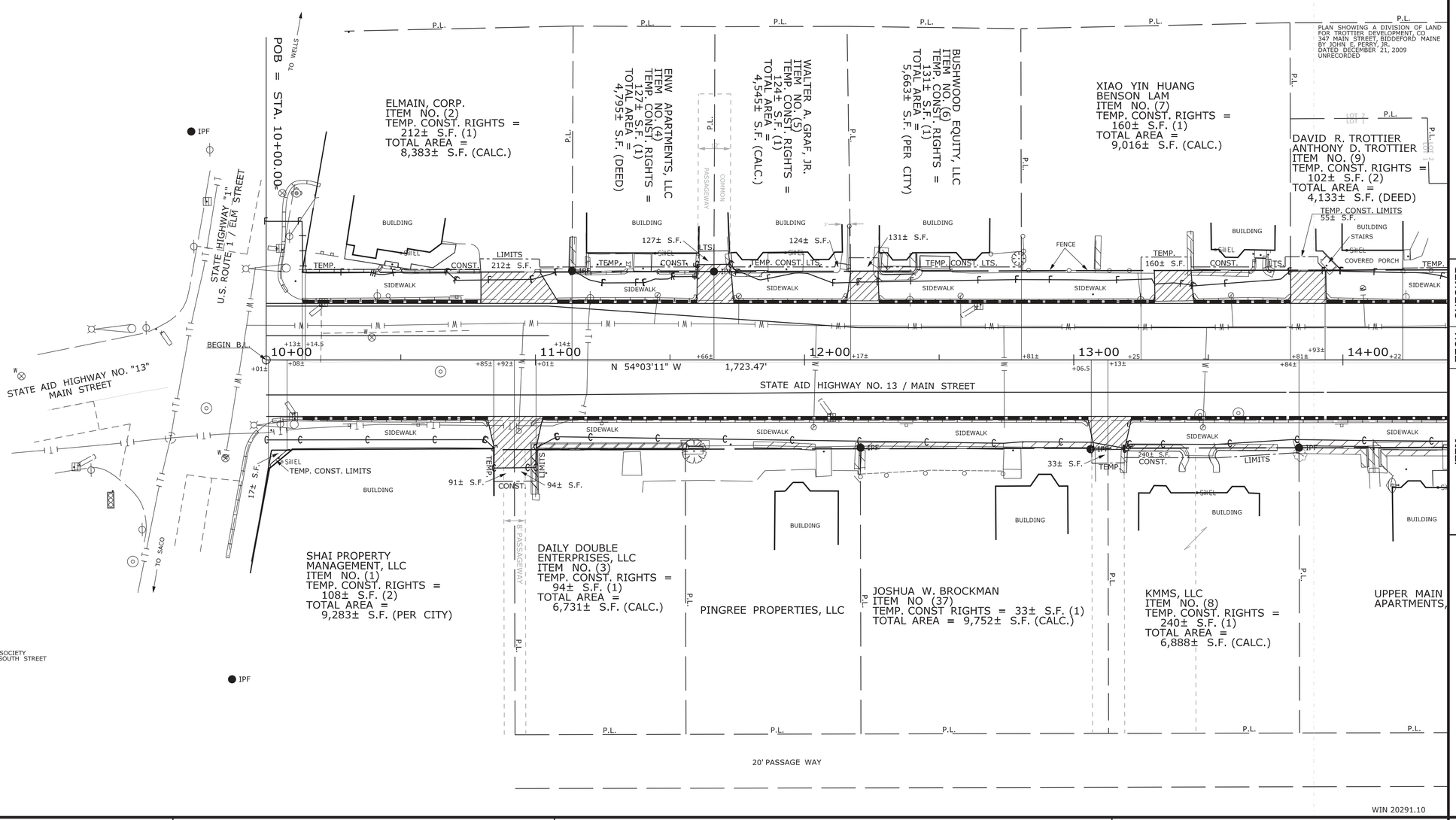
20 0 20 40 60 80
Scale of Feet

CONTROL INFORMATION

HORIZONTAL DATUM - US STATE PLANE NAD83(2011)
ZONE - MAINE 2000 WEST ZONE
VERTICAL DATUM - NAVD 88
COMBINED FACTOR - 0.9999767

GRID NORTH
MAINE 2000 WEST ZONE

PLAN OF LAND
OF SACO WATER POWER CO.
AT SACO & BIDDEFORD MAINE
DATED - 1848
ON FILE AT THE MAINE HISTORICAL SOCIETY



EXISTING RIGHT OF WAY INFORMATION
1) MAIN STREET
A) ELM STREET TO ABOUT STATION 28+00
CITY OF BIDDEFORD RECORDS
VOLUME 5, PAGE 9
JUNE 4, 1847 4 RODS WIDE (66')
ON FILE AT THE BIDDEFORD HISTORICAL SOCIETY
B) FROM ABOUT STATION 28+00 TOWARDS SOUTH STREET
YORK COUNTY COMMISSIONERS RECORDS
VOLUME 22, PAGE 99
1869 3 RODS WIDE (49.5')
2) BRADBURY STREET
A) CITY OF BIDDEFORD
BOOK 1 , PAGE 67
JUNE 21, 1869 50' WIDE
3) ST. MARYS STREET
A) CITY OF BIDDEFORD
BOOK 1, PAGE 32
JUNE 5, 1858 50' WIDE
4) HARVEY STREET (F/K/A WAKEFIELD STREET)
A) CITY OF BIDDEFORD
BOOK 1, PAGE 85-87
AUGUST 22, 1876 50' WIDE
5) HORRIGAN COURT
A) CITY OF BIDDEFORD
RECOGNIZED AND MAINTAINED STREET
PER CITY COUNCIL IN 1979
6) WESTERN AVENUE
A) CITY OF BIDDEFORD
BOOK 1, PAGE 92-94
MAY 7, 1877 50' WIDE

TAX MAP INFORMATION
1) CITY OF BIDDEFORD
TAX MAPS 37 & 38

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	G.L.L.	
FINAL RIGHT OF WAY	G.L.L.	
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
BIDDEFORD
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	7/28/15	17064	821

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

To the best of my knowledge and belief the Highway Right of Way lines depicted hereon are based upon a survey conforming to the Standards of Practice promulgated by the Maine Board of Licensure for Professional Land Surveyors 02-360 CMR, Chapter 90; Exceptions: (1) No separate survey report, (2) Monumentation only as shown on plan. See sheet X of this plan set for coordinates. (3) Other boundary lines, including lines between abutters are approximate and for general reference purposes only.

STATE AID HIGHWAY NO. 13
MAIN STREET
BIDDEFORD YORK COUNTY
FEDERAL AID PROJECT NO. STP-2029(110)

JANUARY 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 16-505
SCALE 1" = 20'	SHEET 1 OF 4	

SHEET NUMBER
34
OF 37

Filename: ...\10\ROW\MSTA\034_RWPLAN1.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W	Existing / Proposed	Existing / Proposed	Cut Line / Fill Line	
Approx. Property Lines — P.L.	Building	Sanitary Sewer	Traveled Way	Stonewall / Retaining Wall	
Existing Right of Way	Clearing Limit Line — CLL	Telephone Line	Ditch	Baseline 10+00 11+00 12+00	
Limits of Wrought Portion — L.O.W.P.	Trees Conifer / Deciduous	Electric Line	Catch Basin	Monument	Traverse Point
Control Of Access — C.O.A.	Tree Line / Bush Line	Water Line	Manhole	Iron Rod Found ● IRF	Pipe Found ● IPF
New Right of Way	Water Edge	Underdrain Line	Sewer Manhole	Replacement Pin Set	
New Easement	Ledge / Rock/Boulder	Gas Line	Utility Pole		
New Temporary Rights	Fence: CHAIN LINK, BARB WIRE, STOCKADE	Guardrail	Fire Hydrant		
New R/W Within Existing R/W	Sign / Well / Mailbox	Culvert	Curbing		

STATE OF MAINE
REGISTRY OF DEEDS
COUNTY _____
RECEIVED _____, _____
at ____h____m____M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

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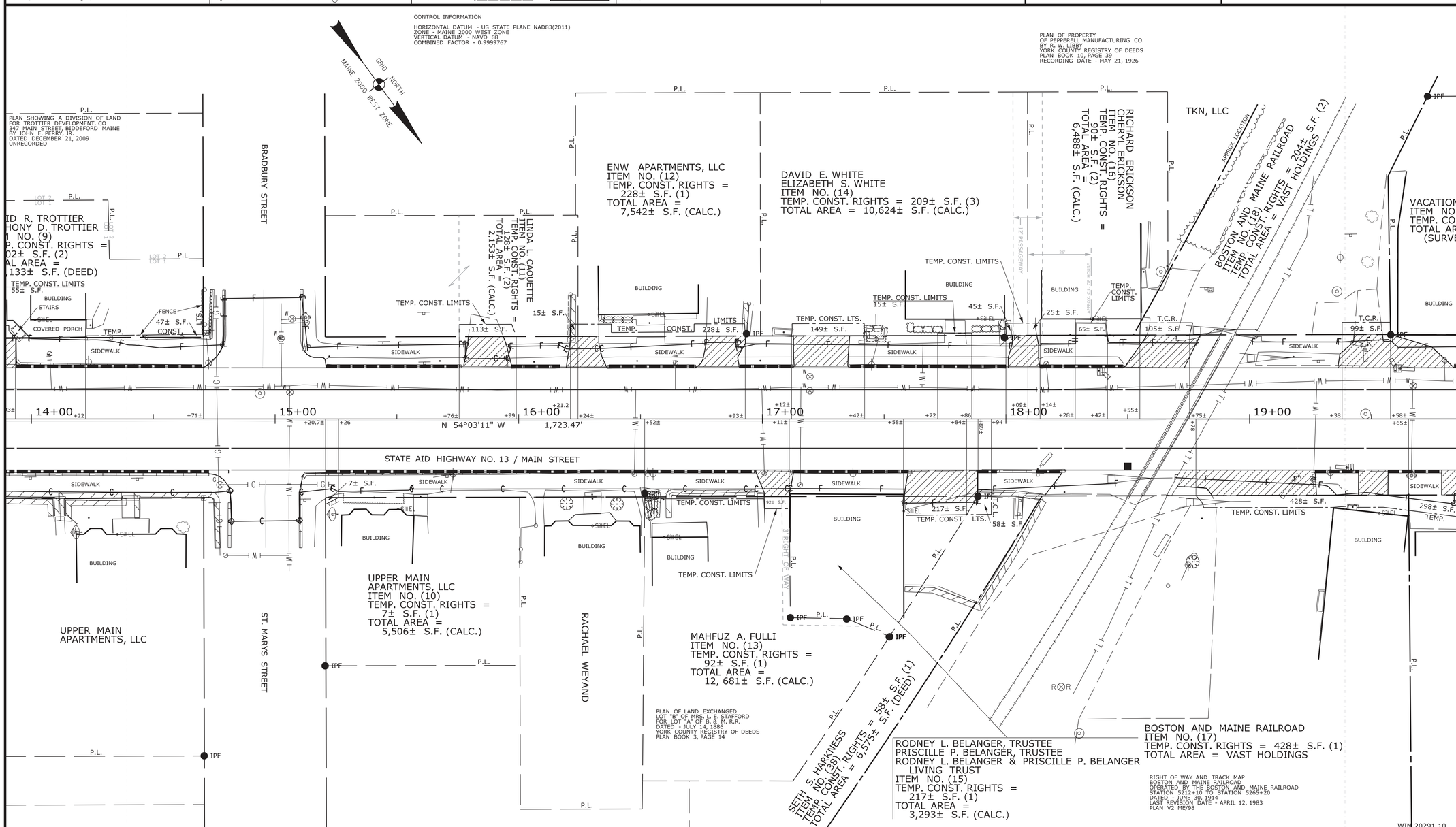
20 0 20 40 60 80
Scale of Feet



ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	G.L.L.	
FINAL RIGHT OF WAY	G.L.L.	
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
BIDDEFORD
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	7/28/15	17064	821

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

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STATE AID HIGHWAY NO. 13
MAIN STREET
BIDDEFORD YORK COUNTY
FEDERAL AID PROJECT NO. STP-2029(110)

JANUARY 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 16-505
SCALE 1" = 20'	SHEET 2 OF 4	

SHEET NUMBER
35
OF 37

Filename: ...\10\ROW\MSTA\035_RWPLAN2.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W	Existing / Proposed: Sanitary Sewer, Telephone Line, Electric Line, Water Line, Underdrain Line, Gas Line, Guardrail, Culvert	Existing / Proposed: Traveled Way, Ditch, Catch Basin, Manhole, Sewer Manhole, Utility Pole, Fire Hydrant, Curbing
Approx. Property Lines — P.L.	Building	Cut Line	Fill Line
Existing Right of Way	Clearing Limit Line — CLL	Stonewall	Retaining Wall
Limits of Wrought Portion — L.O.W.P.	Trees — Conifer, Deciduous	Baseline 10+00 11+00 12+00	
Control Of Access — C.O.A.	Tree Line / Bush Line	Monument	Traverse Point
New Right of Way	Water Edge	Iron Rod Found — IRF	Pipe Found — IPF
New Easement	Ledge / Rock/Boulder / Flag Pole	Replacement Pin Set	
New Temporary Rights	Fence — CHAIN LINK / BARB WIRE / STOCKADE		
New R/W Within Existing R/W	Sign / Well / Mailbox		

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at ____h____m____M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

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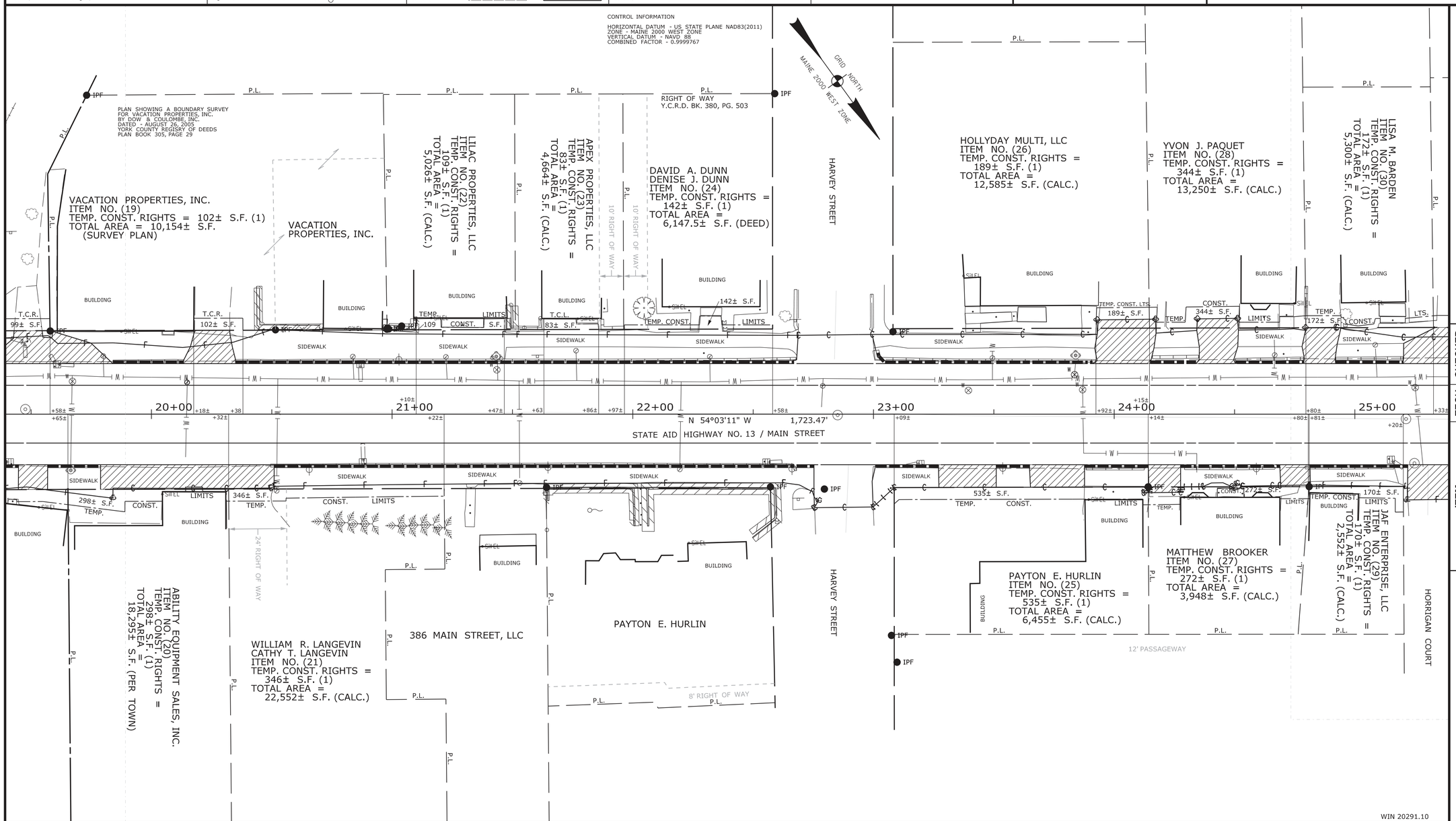
20 0 20 40 60 80
Scale of Feet



ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	G.L.L.	
FINAL RIGHT OF WAY	G.L.L.	
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
BIDDEFORD
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	7/28/15	17064	821

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

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STATE AID HIGHWAY NO. 13
MAIN STREET
BIDDEFORD YORK COUNTY
FEDERAL AID PROJECT NO. STP-2029(110)

JANUARY 2015	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 16-505
SCALE 1" = 20'	SHEET 3 OF 4	

SHEET NUMBER
36
OF 37

Filename: ...\10\ROW\MSTA\036_RWPLAN3.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W	Existing / Proposed: Sanitary Sewer, Telephone Line, Electric Line, Water Line, Underdrain Line, Gas Line, Guardrail, Culvert	Existing / Proposed: Traveled Way, Ditch, Catch Basin, Manhole, Sewer Manhole, Utility Pole, Fire Hydrant, Curbing
Approx. Property Lines	Building	Cut Line	Fill Line
Existing Right of Way	Trees: Conifer, Deciduous	Stonewall	Retaining Wall
Limits of Wrought Portion	Tree Line	Baseline	Monument
Control Of Access	Water Edge	Iron Rod Found ● IRF	Traverse Point
New Right of Way	Ledge	Replacement Pin Set	Pipe Found ● IPF
New Easement	Fence		
New Temporary Rights	Sign		
New R/W Within Existing R/W	Clearing Limit Line		
	Bush Line		
	Rock/Boulder		
	Flag Pole		
	Well		
	Mailbox		

STATE OF MAINE
REGISTRY OF DEEDS
COUNTY _____
RECEIVED _____, _____
at ____h____m____M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

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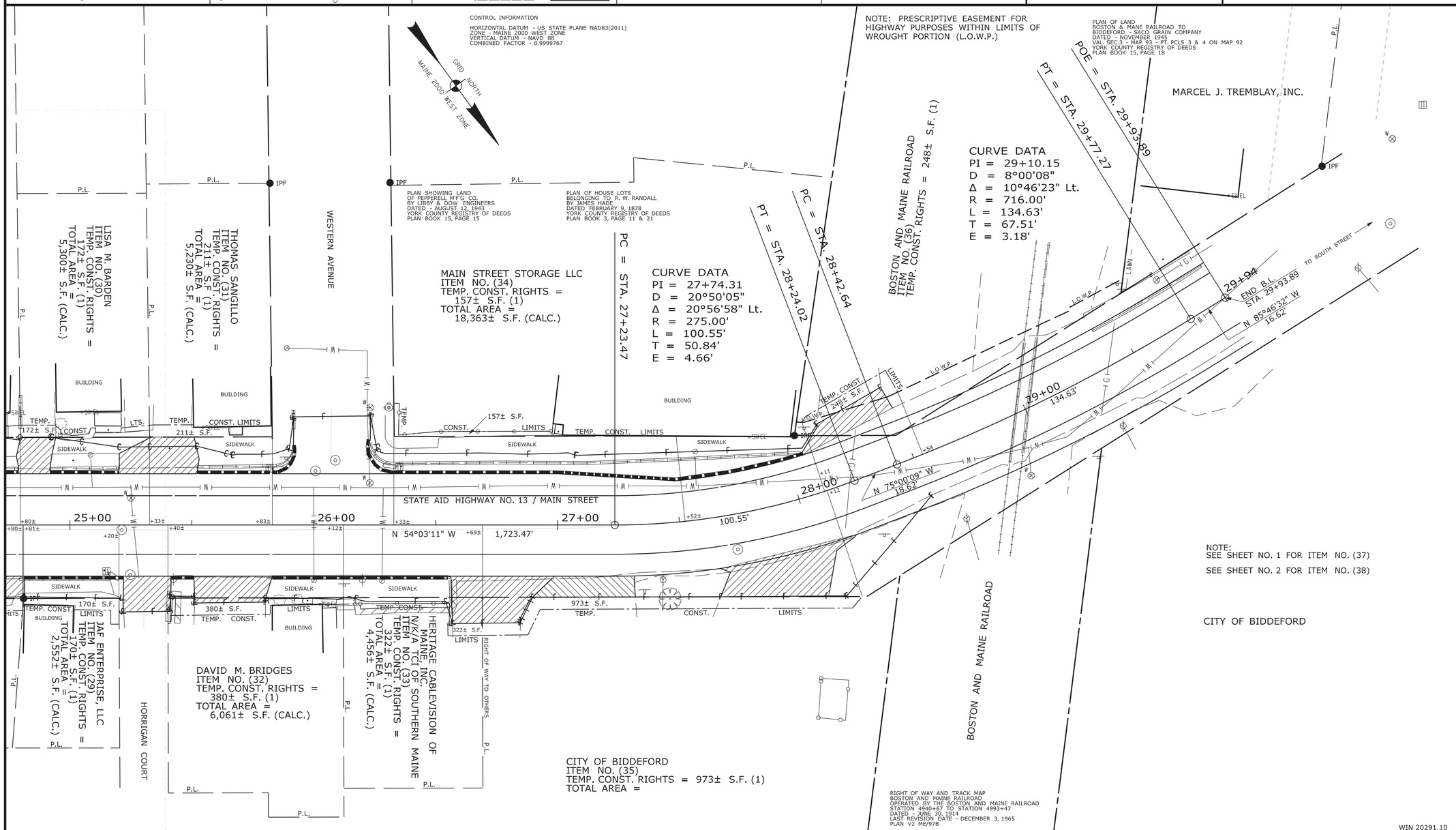
20 0 20 40 60 80
Scale of Feet



ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	G.L.L.	
FINAL RIGHT OF WAY	G.L.L.	
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
BIDDEFORD
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK			PAGE	COUNTY RECORD			
NO.	GRANTOR			INSTRUMENT	DATE	BOOK	PAGE
				COND.	7/28/15	17064	821

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
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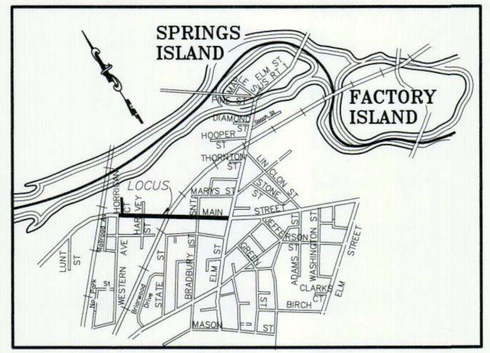
STATE AID HIGHWAY NO. 13
MAIN STREET
BIDDEFORD YORK COUNTY
FEDERAL AID PROJECT NO. STP-2029(110)

JANUARY 2015 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 16-505
SCALE 1" = 20' | SHEET 4 OF 4

SHEET NUMBER
37
OF 37

Filename: ...\10\ROW\MSTA\037_RWPLAN4.dgn Division: HIGHWAY Username: Katherine.S.Gray Date:3/15/2016

SEWER SEPARATION AND FORCE MAIN REPLACEMENT PROJECT MAIN STREET – BIDDEFORD, MAINE 04005

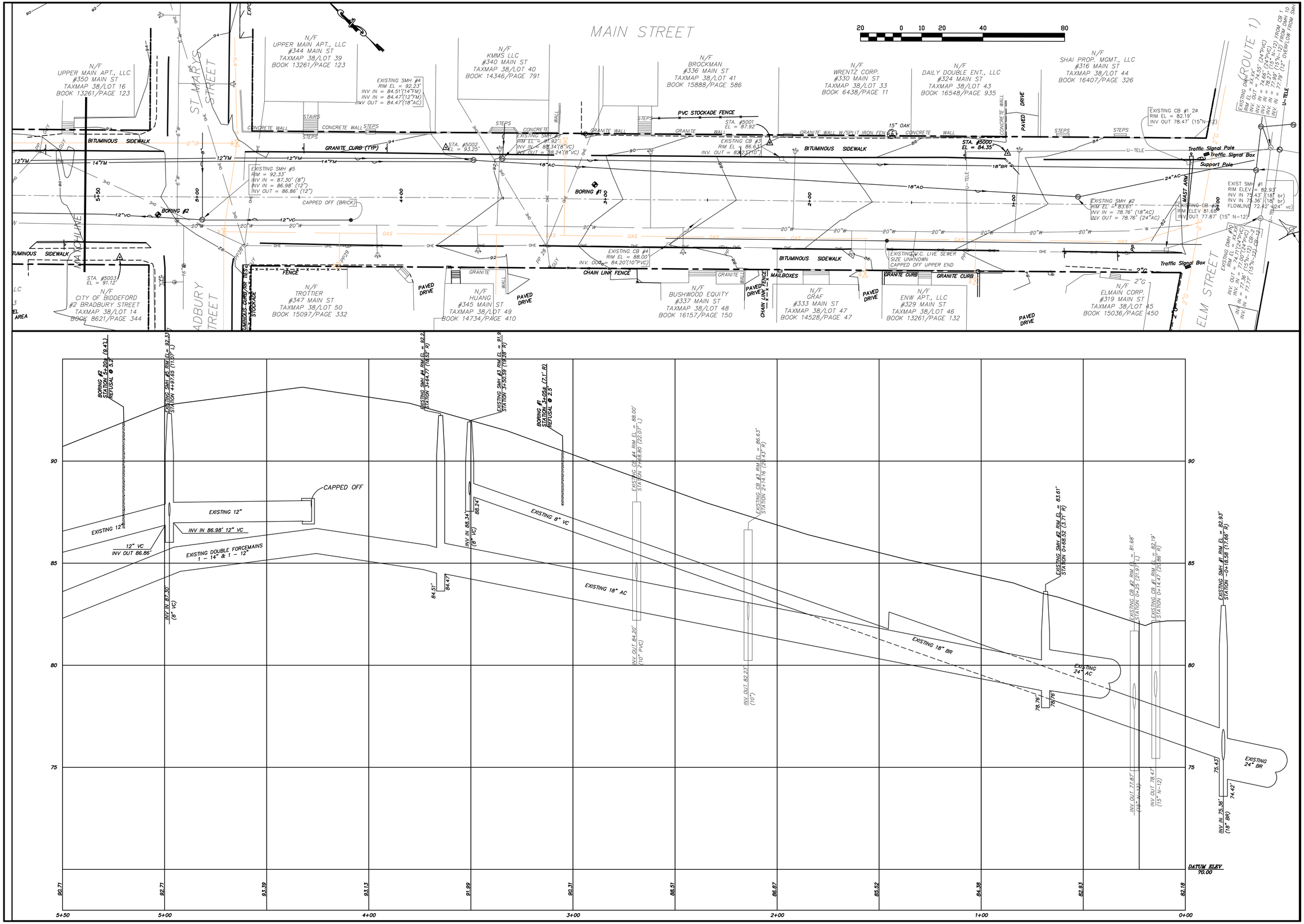


NOTES:

1) LENGTH OF STEEL SLEEVE UNDER RAILROAD TRACKS TAKEN FROM PLAN TITLED "PROPOSED INTERCEPTOR SEWERS, PUMPING STATIONS AND FORCE MAINS BIDDEFORD, MAINE" SHEET #7 OF 20 SHEETS BY WHITMAN & HOWARD INC., ENGINEERS DATED JANUARY, 1964
2) UNLESS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY MEASURING & INSTALLING FORCE MAINS SO THAT 22 1/2° FITTINGS AND THRUST BLOCKS WILL BE USED AT BENDS, ALONG WITH ANY NEEDED REDUCERS, COUPLINGS & MECHANICAL FLANGES.
3) CONTRACTOR MUST MAINTAIN SANITARY SEWER SERVICE OPERATIONS AT ALL TIMES. ANY BYPASS PUMPING AND TEMPORARY SEWER SERVICE NECESSARY TO PERFORM THE WORK SHOWN SHOULD BE FURNISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4) EXISTING FORCE MAINS LOCATED WITHIN THE STEEL SLEEVES AND BETWEEN THE NEW SECTIONS OF 16" C905 PIPE, SHALL BE SLIP LINED, PER SPECS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SLIP LINING CONTRACTOR. ONE FORCE MAIN SHALL BE FULLY ACTIVE AT ALL TIMES. NEW FORCE MAIN SHALL BE TESTED AND APPROVED BY ENGINEER BEFORE BEING PUT INTO SERVICE.
5) THE OBJECTIVE OF THIS WORK IS TO REPLACE THE OLD EXISTING AC FORCE MAIN WITH A NEW PVC FORCE MAIN. TO PROVIDE UNINTERRUPTED SERVICE, AT LEAST ONE OF THE FORCE MAINS MUST BE KEPT FUNCTIONING AT ALL TIMES. THEREFORE, THE CONTRACTOR MUST SEQUENCE ALL ELEMENTS OF WORK TO ACCOMPLISH THIS AND IS RESPONSIBLE FOR ALL MEANS AND METHODS. AS AN EXAMPLE OF A POSSIBLE SEQUENCING PLAN TO ACCOMPLISH THE WORK, THE CITY IS OFFERING THIS AS A POTENTIAL SEQUENCING EXAMPLE. THE CONTRACTOR COULD FIRST INSTALL THE NEW FORCE MAINS FROM THE PUMP STATION LOCATION TO A POINT WESTERLY OF THE RAILROAD CROSSING AND FROM A POINT EASTERLY OF THE RAILROAD CROSSING TO THE NEW RECEIVING SMH NEAR BRADBURY ST. (WHILE THE TWO FORCE MAINS REMAIN IN SERVICE.) THEN THE SOUTHERLY FORCE MAIN COULD BE REMOVED FROM SERVICE, THE EXISTING SOUTHERLY FORCE MAIN SECTION UNDER THE RAILROAD TRACKS LINED AND CURED, FOLLOWED BY THE NEW SOUTHERLY FORCE MAIN BEING CONNECTED TO THE NEWLY LINED PIPE AT BOTH ENDS AT THE RAILROAD CROSSING POINTS, TESTED, APPROVED AND THEN RETURNED TO SERVICE. ONCE THIS SOUTHERLY FORCE MAIN IS RETURNED TO SERVICE AND IS FULLY APPROVED AND FUNCTIONAL, IN A SIMILAR FASHION, THE NORTHERLY FORCE MAIN UNDER THE RAILROAD TRACKS COULD BE LINED, RE-CONNECTED AT BOTH ENDS OF THE RAILROAD CROSSING AND RETURNED TO SERVICE.
THE CONTRACTOR SHALL SUBMIT A DETAIL SEQUENCING AND TIMING PLAN DESCRIBING ALL ELEMENTS OF THE WORK PRIOR TO BEGINNING OF WORK.
6) THE CONTRACTOR SHALL COORDINATE WORK WITH THE CITY SEWER DEPARTMENT, ENGINEERING DEPARTMENT AND THE MAINE DOT.
7) THE CONTRACTOR SHALL REFER TO THE MAINE DOT PLANS/PROJECT FOR ROADWAY IMPROVEMENTS.

PREPARED BY:

CITY OF BIDDEFORD ENGINEERING DEPARTMENT



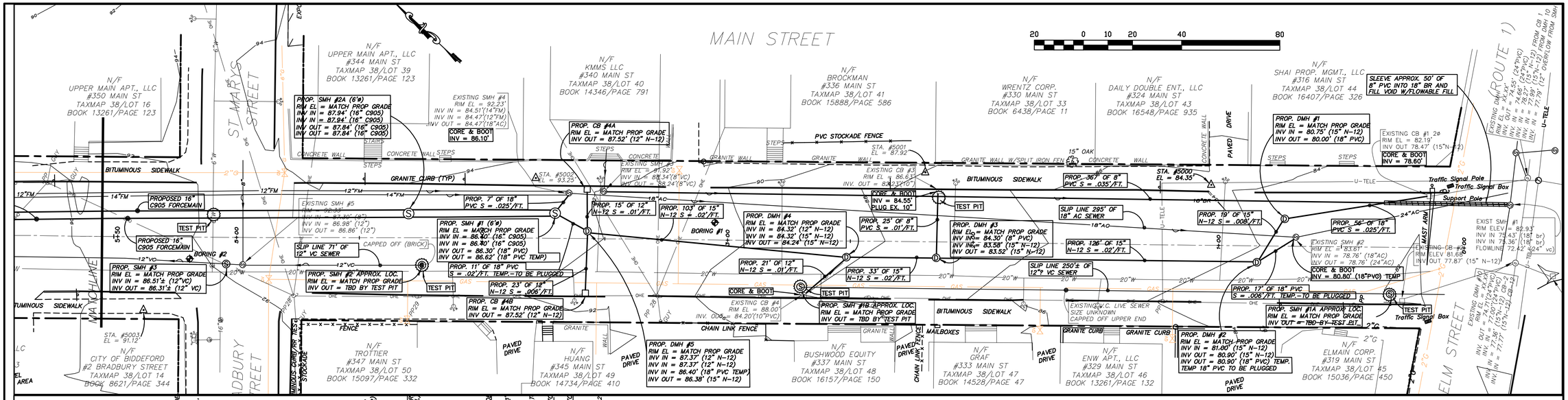
No.	Revision	Date

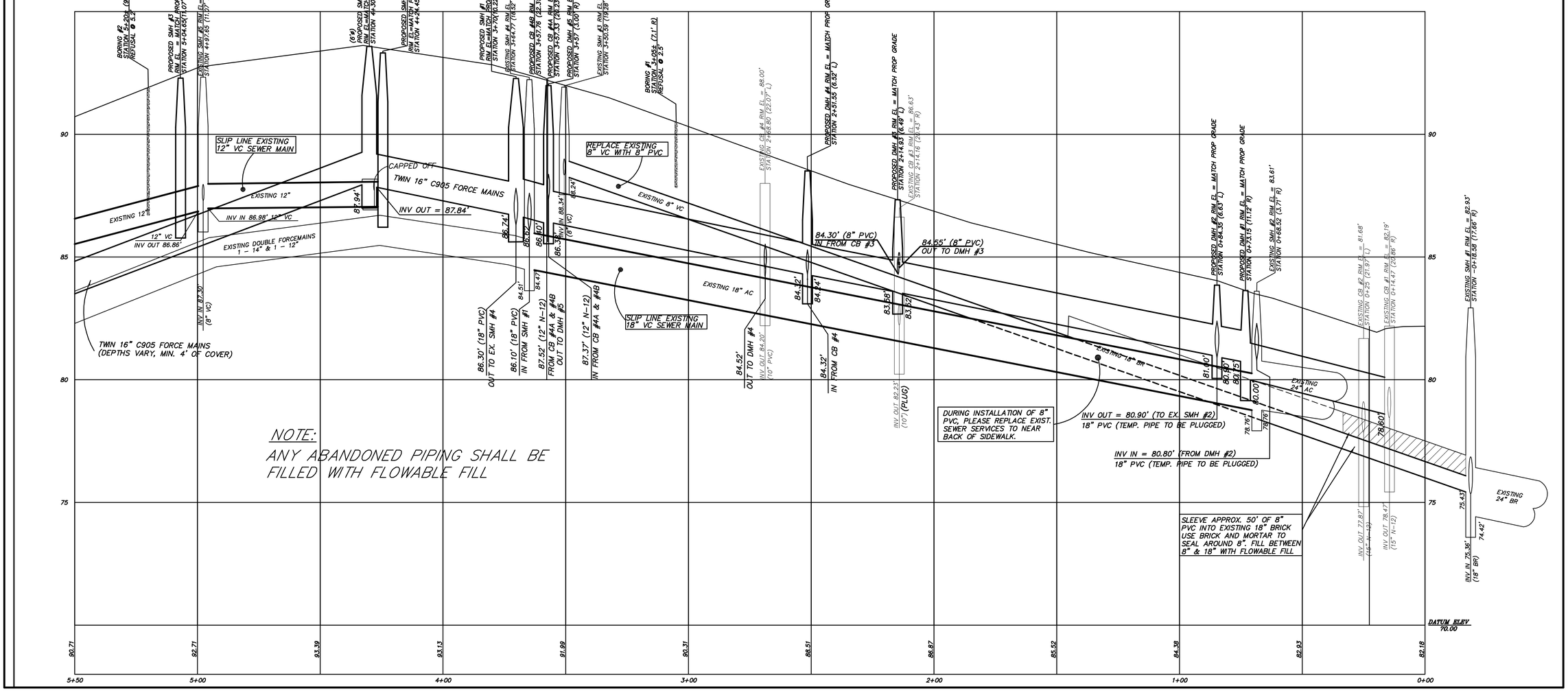
EXISTING CONDITIONS MAIN STREET BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

Date: 10/15/15	Drawn by: RMS
H. Scale: 1" = 20'	Chk'd by:
V. Scale: 1" = 2'	Appv'd by:
Sheet 1E Of	

TD-





NOTE:
ANY ABANDONED PIPING SHALL BE FILLED WITH FLOWABLE FILL

No.	Revision	Date
1	FORCE MAIN INCREASE (PER DEP)	12/21/15
	ADDED SM'S	

PROPOSED SEWER SEPARATION & FORCE MAIN INSTALLATION MAIN STREET BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

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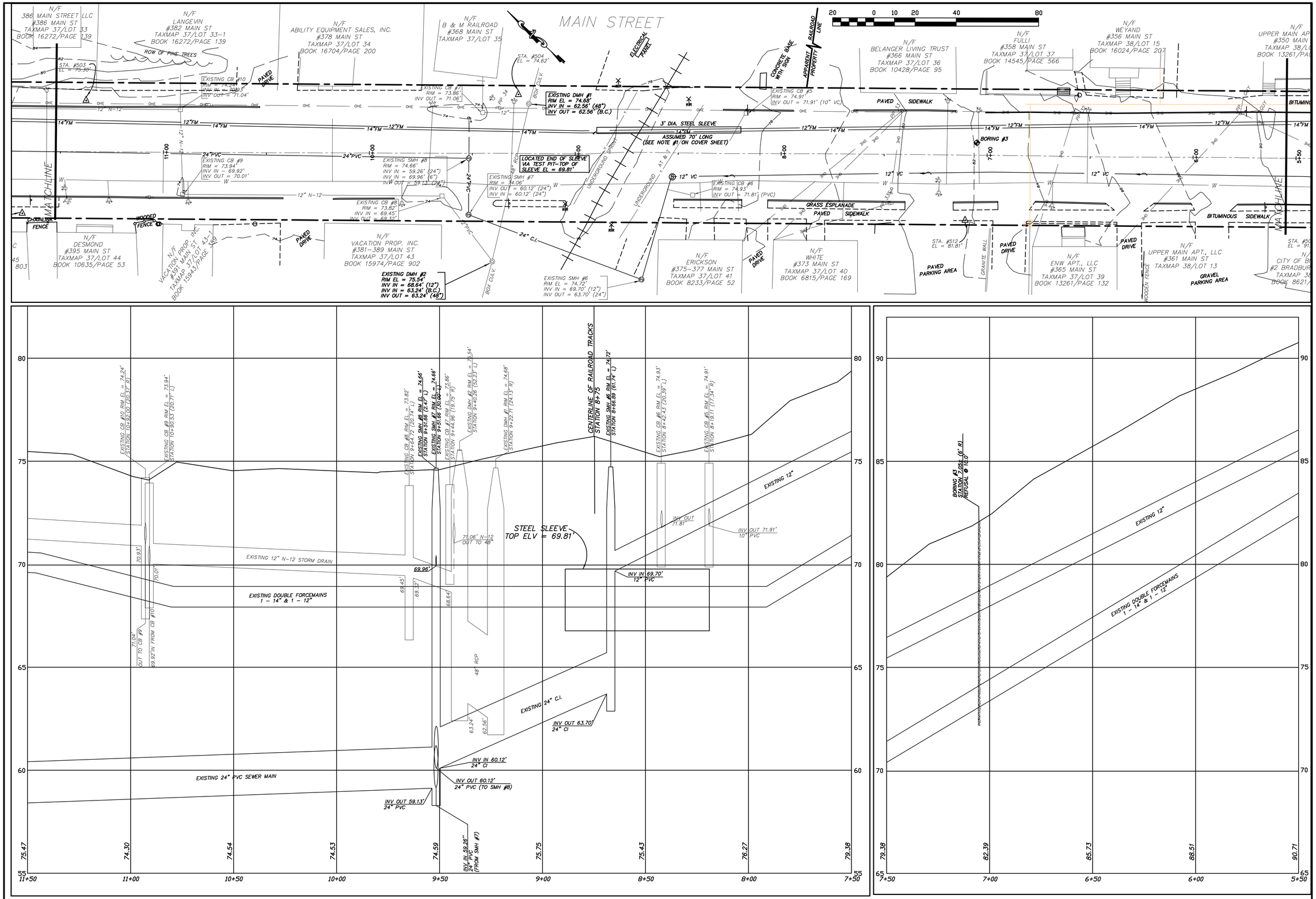

No.	Revision	Date

EXISTING CONDITIONS MAIN STREET BIDDEFORD, MAINE 04005

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Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
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Date: 10/15/15	Drawn by: RMS
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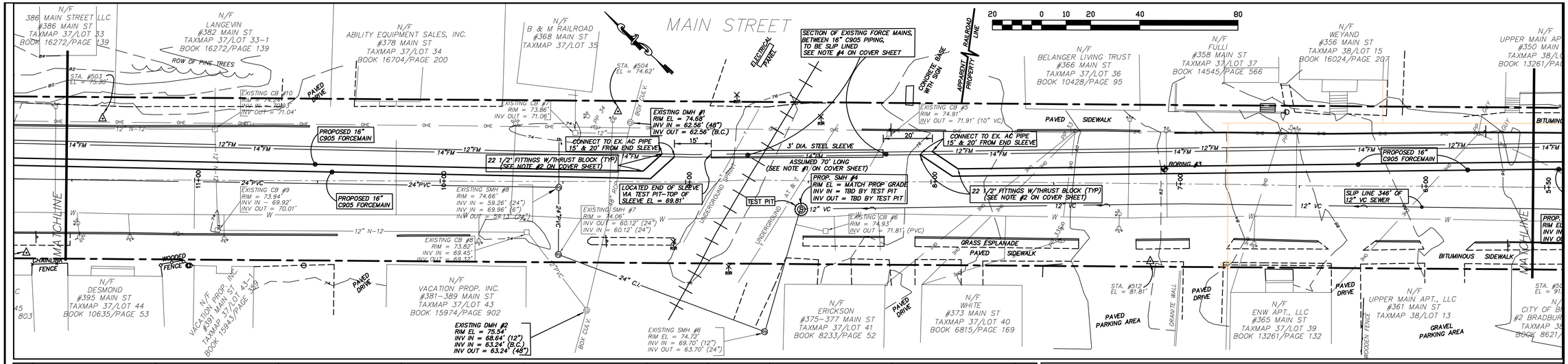
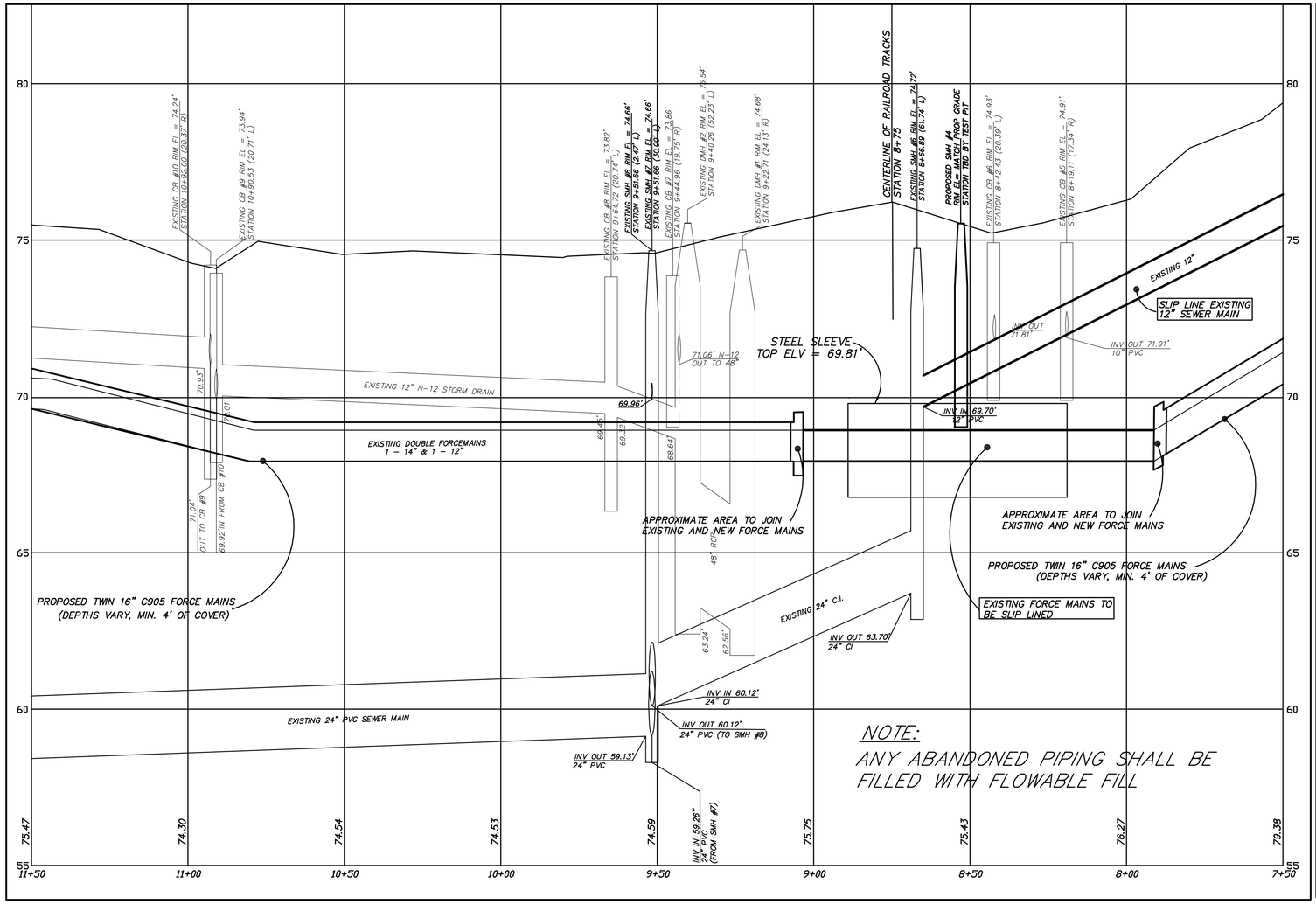
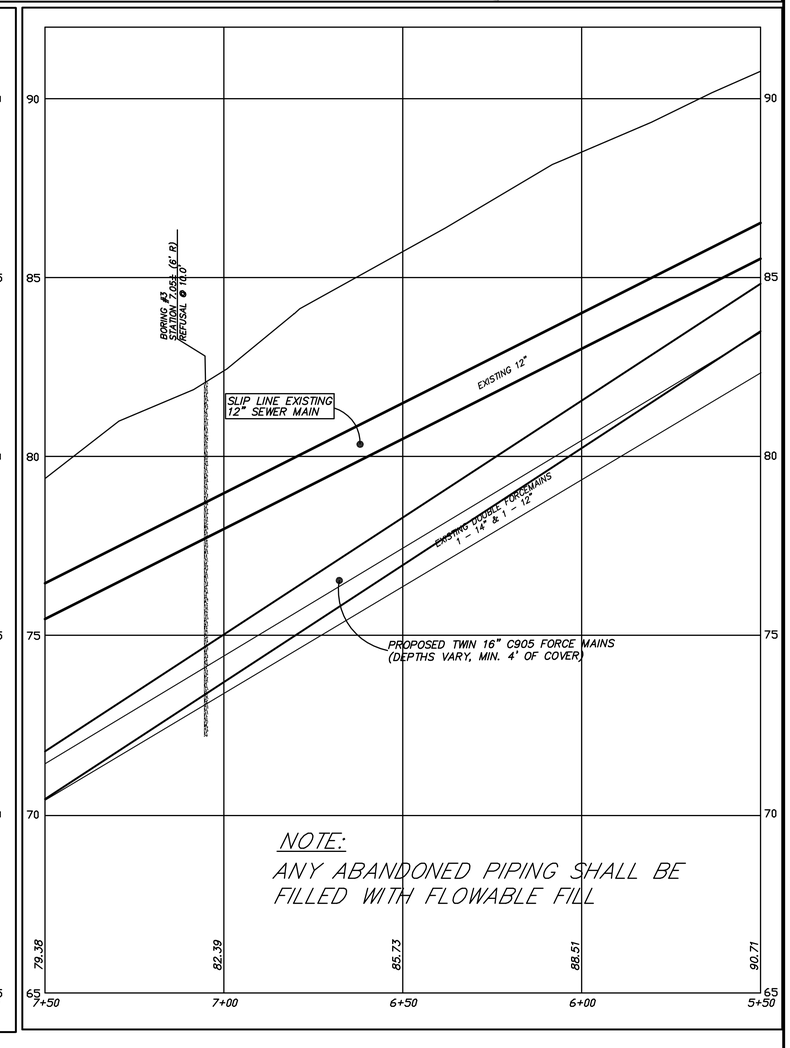
V. Scale: 1" = 2'	Appv'd by:
Sheet 2E Of	

TD-







No.	Revision	Date
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	ADDED SM'S	

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205 Main Street * P.O. Box 586 * Biddeford, Maine 04005-0586
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Sheet 2P Of	

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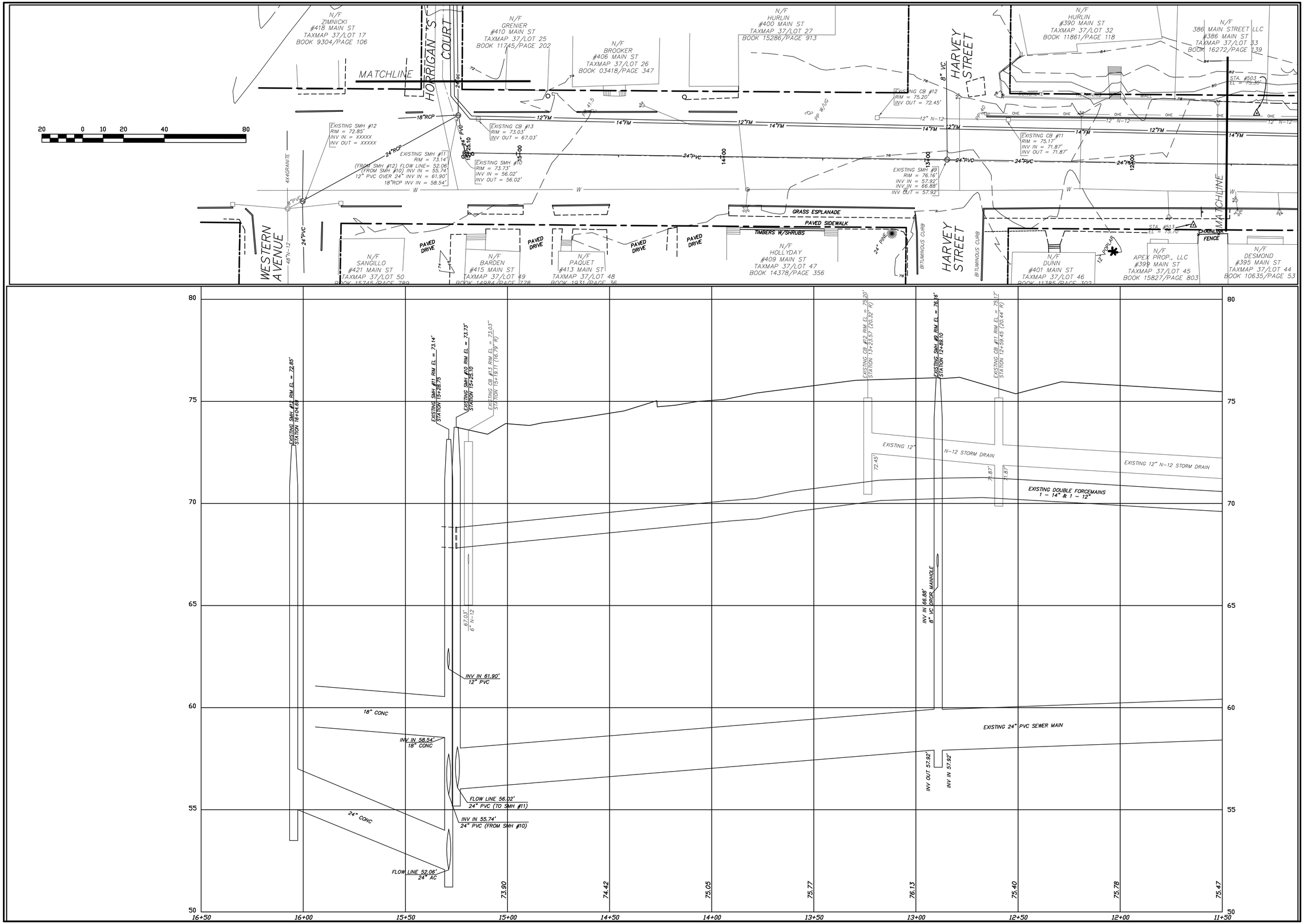

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EXISTING CONDITIONS
MAIN STREET
BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
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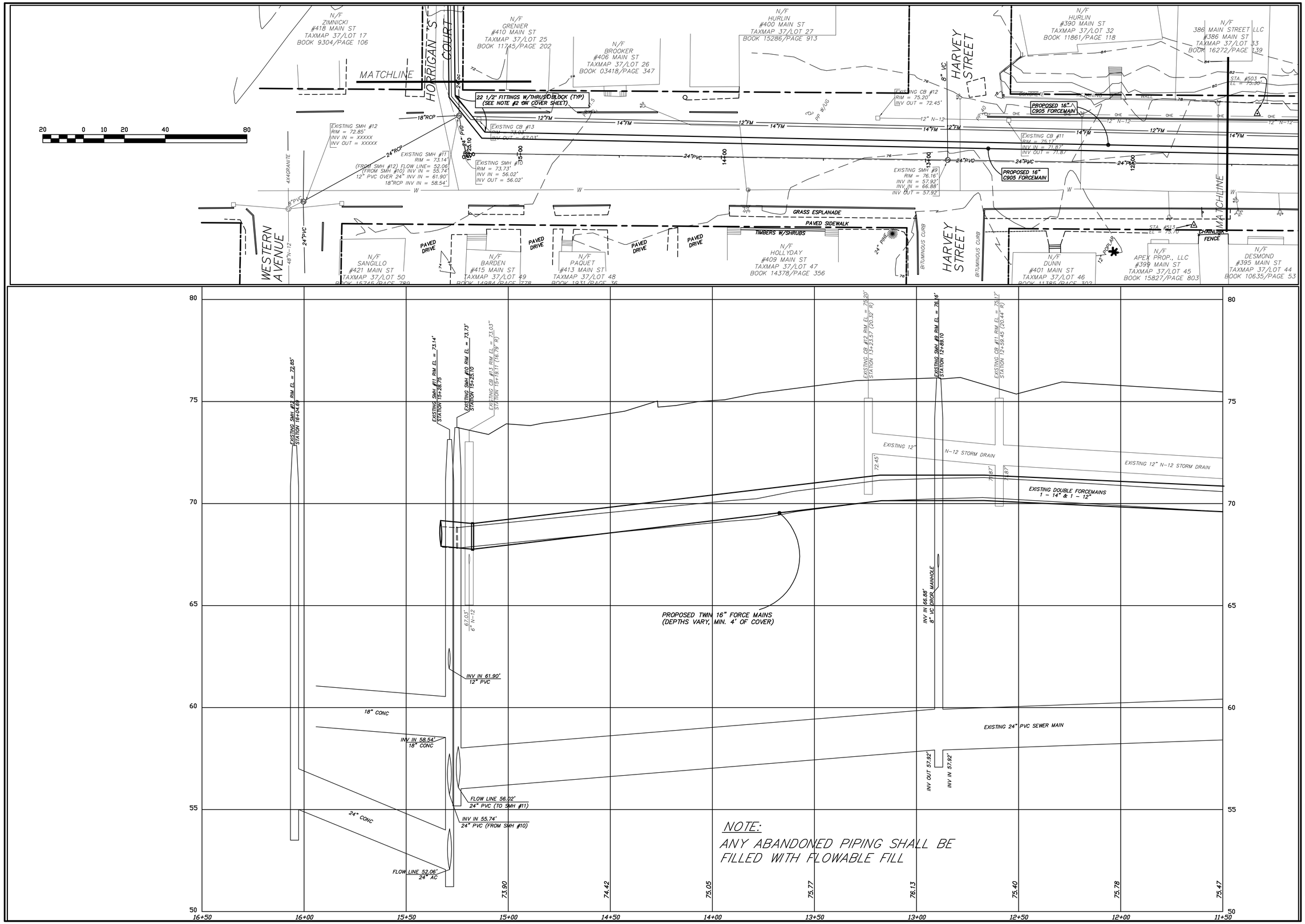
TD-



No.	Revision	Date

PROPOSED SEWER SEPARATION & FORCE MAIN INSTALLATION
MAIN STREET
BIDDEFORD, MAINE 04005

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205 Main Street * P.O. Box 586 * Biddeford, Maine 04005-0586
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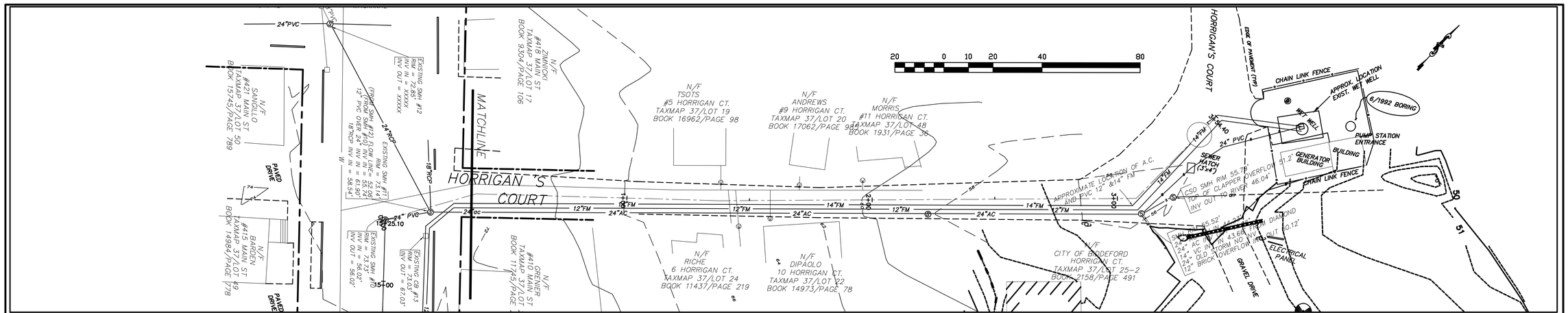
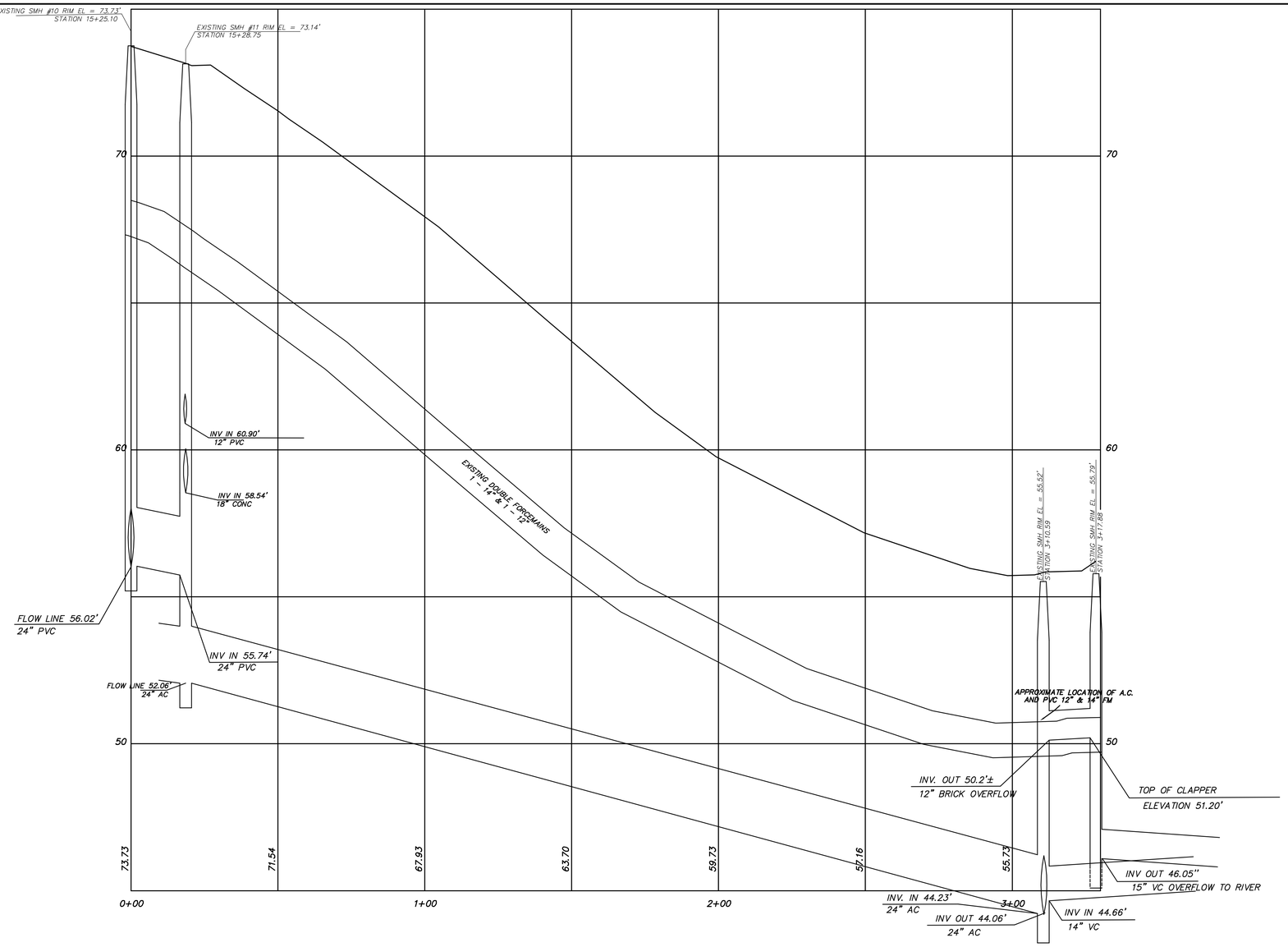
Sheet 3P Of	

TD—





No.	Revision	Date

EXISTING CONDITIONS HORRIGAN'S COURT BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

Date: 10/15/15	Drawn by: RMS
H. Scale: 1" = 20'	Chk'd by:
V. Scale: 1" = 2'	Appv'd by:
Sheet 4E Of	

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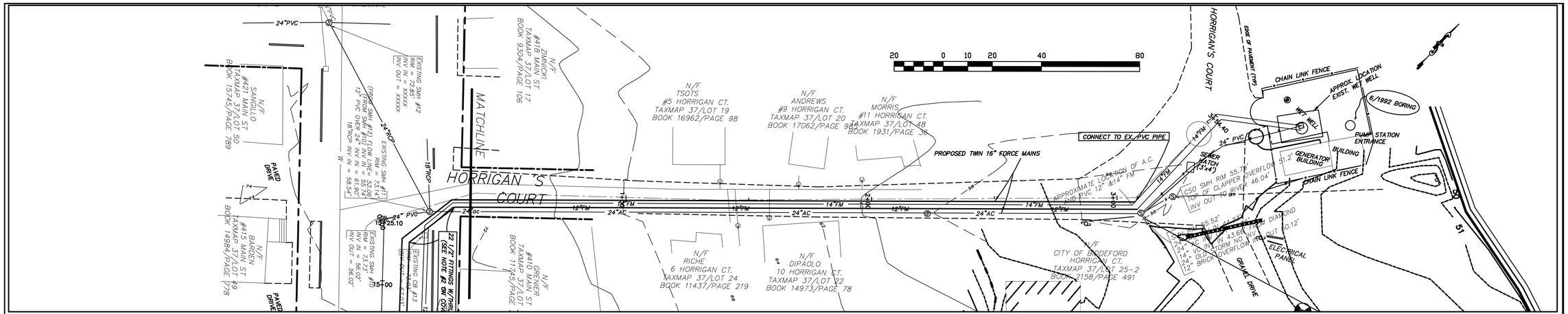

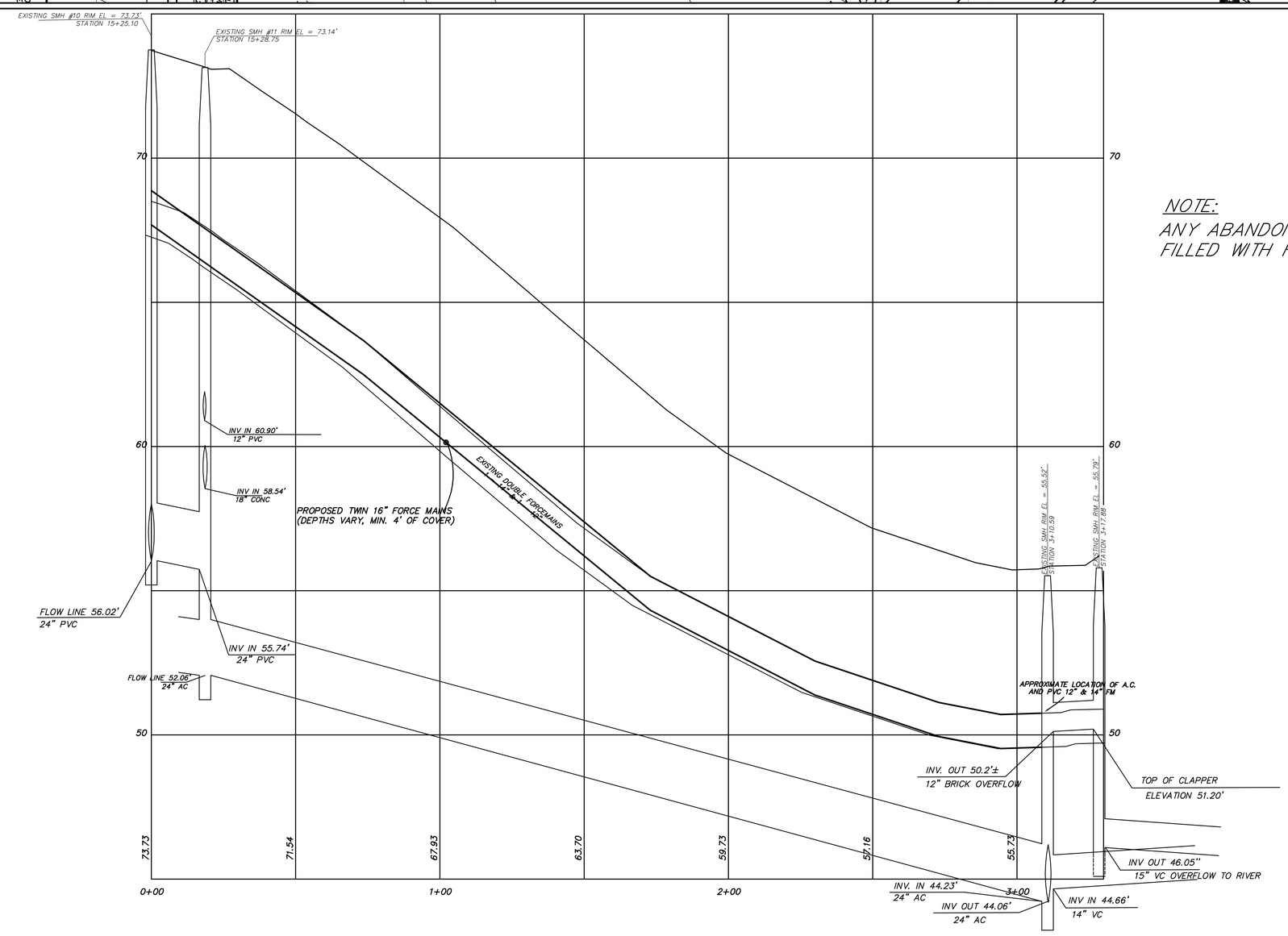

NOTE:
ANY ABANDONED PIPING SHALL BE FILLED WITH FLOWABLE FILL

No.	Revision	Date

PROPOSED SEWER SEPARATION & FORCE MAIN INSTALLATION MAIN STREET BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

Date: 6/19/13	Drawn by: RMS
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V. Scale: 1" = 2'	Appv'd by:
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EROSION AND SEDIMENT CONTROL PLAN

THIS WRITTEN PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", CUMBERLAND COUNTY S.W.C.D. DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH 1991, REVISED MARCH 2003.

THE PROPOSED LOCATIONS OF SILTATION FENCES AND EROSION CONTROL STRUCTURES ARE GENERALLY SHOWN ON THE PLANS. WHETHER SPECIFICALLY SHOWN OR NOT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL STRUCTURES AND DEVICES ACCORDING TO THE MEASURES OUTLINED IN NO. 1 BELOW. THE ENGINEER MAY DIRECT THE USE OF ADDITIONAL EROSION CONTROL DEVICES AS SITE CONDITIONS MAY WARRANT.

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", CUMBERLAND COUNTY S.W.C.D. DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED 1991, REVISED MARCH 2003.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 15 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
3. SEDIMENT BARRIERS (SILT FENCE, BARK FILTER, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
4. INSTALL SILT FENCE OR BARK FILTER AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY BEFORE AND FOLLOWING ANY SIGNIFICANT RAINFALL (0.5 INCHES) OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSURE. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY TURF.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2 TO 1).
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED BY AUG. 15 OR 45 DAYS PRIOR TO THE FIRST KILLING FROST (OCT. 1) TO PROTECT FROM SPRING RUNOFF PROBLEMS.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
    a. FOUR INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
    b. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SQ. FT.).
    c. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS: SEEDING RATE IS 1.03 LBS PER 1000 SQ. FT. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED. SEED MIX SHALL CONTAIN 10% ANNUAL RYE GRASS.
    d. HAY MULCH AT THE RATE OF 70-90 LBS PER 1000 SQUARE FEET OR A HYDRO-APPLICATION OF ASPHALT, WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON HAY MULCH FOR WIND CONTROL.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED. TEMPORARY EROSION AND SEDIMENT CONTROL BLANKET SHALL BE USED IN ALL DITCHES AND SWALES AS SHOWN IN DETAILS.
12. WETLANDS WILL BE PROTECTED W/HAYBALES AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.

MULCH AND MULCH ANCHORING

MULCH

LOCATION	MULCH	RATE (1000 S.F.)
PROTECTED AREA	STRAW OR HAY *	100 POUNDS
WINDY AREAS	SHREDDED OR CHOPPED CORNSTALKS	185-275 POUNDS
	STRAW OR HAY (ANCHORED) *	100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES (GREATER THAN OR EQUAL TO 3:1)	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED AS REQUIRED

(GREATER THAN OR EQUAL TO 3:1)

* A HYDRO-APPLICATION OF ASPHALT, WOOD, OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

MULCH ANCHORING

ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD./BLOCK); MULCH NETTING (AS PER MANUFACTURED; ASPHALT EMULSION (0.04 GALLONS PER SQ YD.); LIQUID ASPHALT (0.10 GALLONS PER SQ. YD.); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURERS SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK. WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

Additional temporary seed mixture (for periods less than 12 months).

Season	Seed	Rate
Summer (5/15 - 8/15)	Sudangrass	40 lbs/acre
Late Summer/Early Fall	Oats	80 lbs/acre
(8/15 - 9/15)	Annual Ryegrass	40 lbs/acre
	Prennial Ryegrass	40 lbs/acre
Fall (9/15 - 11/1)	Winter Rye	112 lbs/acre
Winter (11/1 - 4/1)	Mulch w/ Dormant Seed	80 lbs/acre*
Spring (4/1 - 7/1)	Oats	80 lbs/acre
	Annual Ryegrass	40 lbs/acre

*Seed Rate Only

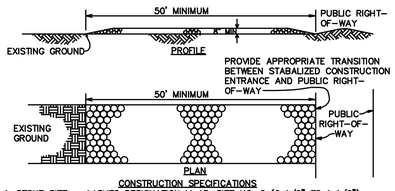
EROSION CONTROL DURING CONSTRUCTION

WINTER CONSTRUCTION

1. WINTER CONSTRUCTION PERIOD: OCTOBER 1 THROUGH APRIL 15
2. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
4. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO MORE THAN ONE ACRE OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES MULCH SHALL BE APPLIED SUCH THAT THE SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200 - 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
7. A) BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TACK OR WOOD CELLULOSE FIBER.
   B) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3%, FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
9. DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
10. AREAS WITHIN 100 FEET OF STREAMS THAT ARE NOT STABILIZED WITH VEGETATION BY DEC. 1 SHALL BE MULCHED AND ANCHORED WITH NETTING. IF WORK CONTINUES IN THIS AREA DURING THE WINTER, A DOUBLE LINE OF SEDIMENT BARRIERS MUST BE USED.

STABALIZED CONSTRUCTION ENTRANCE

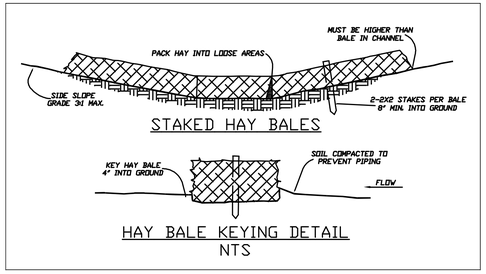
(NOT TO SCALE)



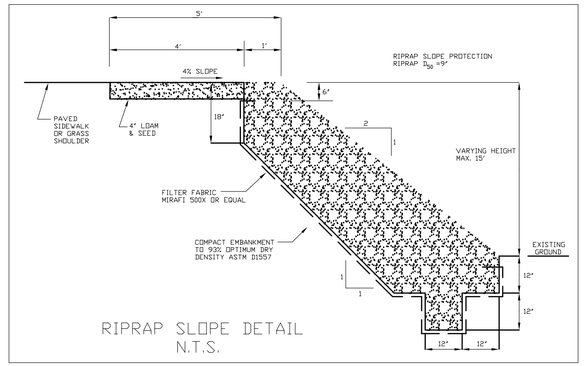
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - AASHTO DESIGNATION M 43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABALIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OF SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

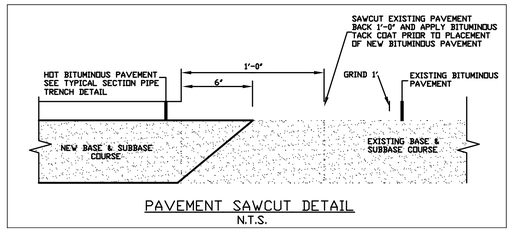
STANDARD SYMBOL SCE



HAY BALE KEYING DETAIL
NTS



RIPRAP SLOPE DETAIL
N.T.S.



PAVEMENT SAWCUT DETAIL
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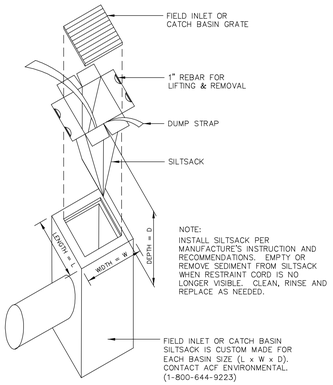
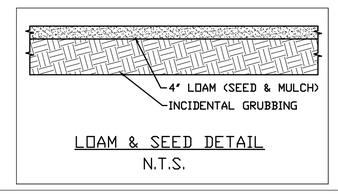
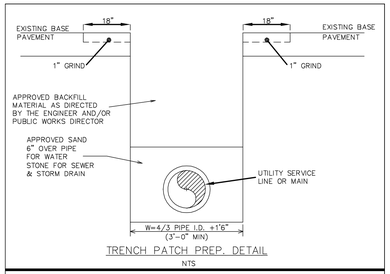


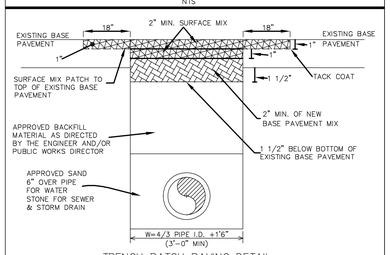
SILTSACK INLET SEDIMENT CONTROL DEVICE
NTS



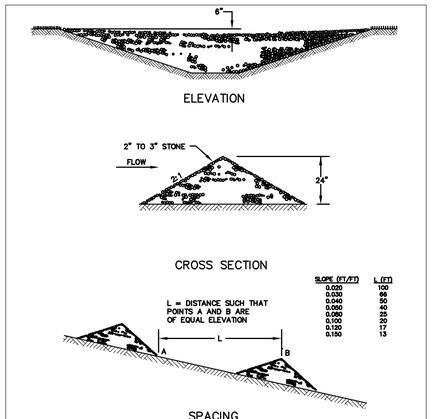
LOAM & SEED DETAIL
N.T.S.



TRENCH PATCH PREP. DETAIL
NTS

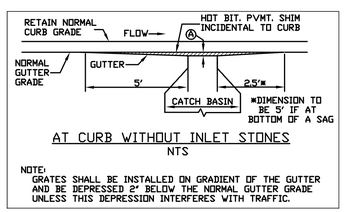


TRENCH PATCH PAVING DETAIL
NTS



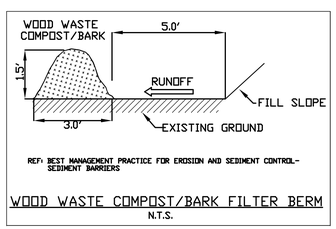
SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13

STONE CHECK DAM DETAIL
NTS

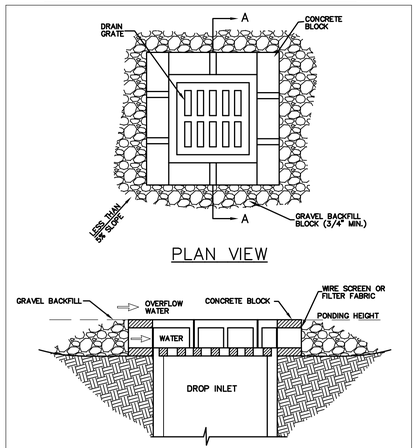


AT CURB WITHOUT INLET STONES
NTS

NOTE:
GRATES SHALL BE INSTALLED ON GRADIENT OF THE GUTTER AND BE DEPRESSED 2" BELOW THE NORMAL GUTTER GRADE UNLESS THIS DEPRESSION INTERFERES WITH TRAFFIC.



WOOD WASTE COMPOST/BARK FILTER BERM
N.T.S.



NOTES:

1) DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2) EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3) THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

BLOCK & GRAVEL DROP INLET SEDIMENT BARRIER
N.T.S.

No.	Revision	Date

DETAIL SHEET
MAIN STREET
SEWER SEPARATION AND
FORCE MAIN REPLACEMENT PROJECT
BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

Date: 10/15/15	Drawn by: RMS
H. Scale:	Chk'd by: JEP
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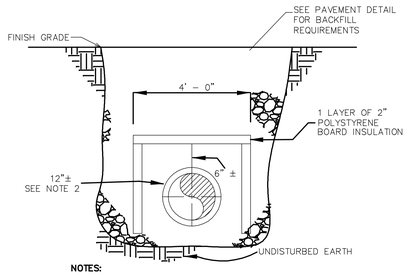
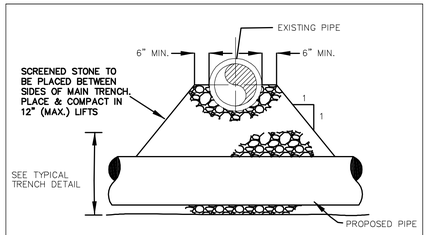


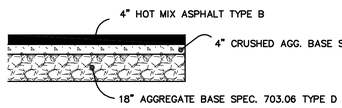
NOTES:
1) TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN 5 FEET FOR SEWER MAINS AND SERVICES, LESS THAN 4 FEET FOR STORM DRAIN, OR AS DIRECTED BY THE ENGINEER.
2) FOR COVER ABOVE PIPE LESS THAN 3 FEET PLACE 2" POLYSTYRENE BOARD INSULATION ALONG SIDE OF PIPE TO BELOW PIPE

TRENCH PIPE INSULATION DETAIL
NTS

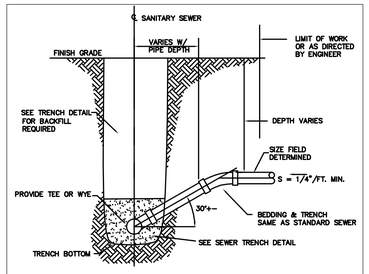


NOTE: JOINTS ON EACH PIPE TO BE AS FAR FROM INTERSECTION AS POSSIBLE.

PIPE CROSSING DETAIL
NTS



MAIN STREET PAVEMENT DETAIL
N.T.S.



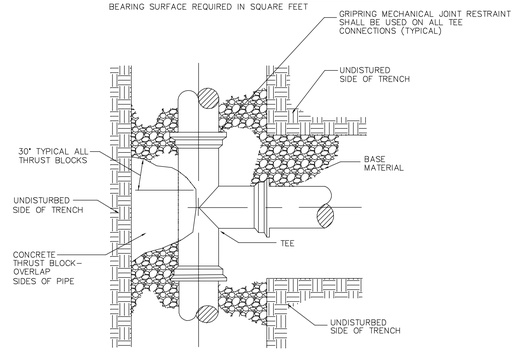
HORIZONTAL SEWER CONNECTION
N.T.S.

THRUST BLOCK NOTES

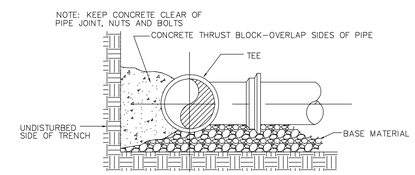
1. INSTALL POLY BARRIER BETWEEN PIPE AND ALL THRUST BLOCKS.
2. ANY MODIFICATION TO THRUST BLOCK SIZING OR PIPE RESTRAINT REVISIONS SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO IMPLEMENTATION IN THE FIELD.
3. ANY WORK RELATING TO WATER PIPING OR DETAILS SHALL BE IN ACCORDANCE WITH THE MeDHS AND THE CONTRACT SPECIFICATIONS.
4. THRUST BLOCKING CONCRETE CONSISTING OF 2,500 PSI SHALL BE USED

PIPE SIZE	1/32 BEND	1/16 BEND	1/8 BEND	1/4 BEND	TEES/CAPS
8"	5.0	5.0	5.0	6.5	5.0
12"	11.5	11.5	11.5	20.0	22.0

BEARING SURFACE REQUIRED IN SQUARE FEET

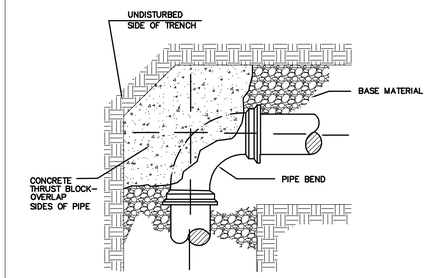


PLAN VIEW



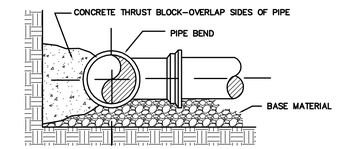
SECTION

TYPICAL THRUST BLOCK PLACEMENT ON TEES
N.T.S.



PLAN VIEW

NOTE: KEEP CONCRETE CLEAR OF PIPE JOINTS
THRUST BLOCKING CONCRETE CONSISTING OF 2,500 PSI SHALL BE USED



SECTION

THRUST BLOCK SCHEDULE		
1/4 BEND	(90°)	USE POURED-IN-PLACE THRUST BLOCK
1/8 BEND	(45°)	THRUST BLOCK
1/16 BEND	(22 1/2°)	THRUST BLOCK
1/32 BEND	(11 1/4°)	THRUST BLOCK

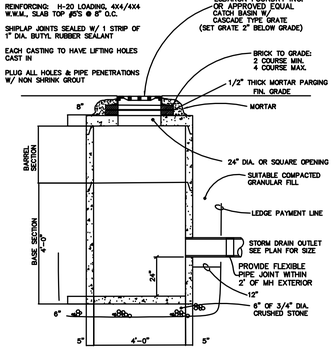
INSTALL POLY BARRIER BETWEEN PIPE AND ALL THRUST BLOCKS

THE ABOVE SCHEDULE IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER DUE TO SOILS AND WORKING PRESSURE IN THE AREA.

ANY WORK RELATING TO FORCE MAIN PIPING OR DETAILS SHALL BE IN ACCORDANCE WITH THE MeDHS AND THE CONTRACT SPECIFICATIONS.

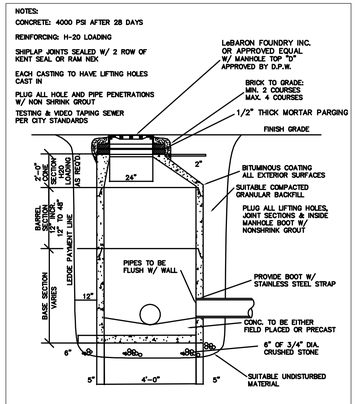
TYPICAL THRUST BLOCK PLACEMENT ON BENDS
N.T.S.

NOTES:
CONCRETE: 4000 PSI AFTER 28 DAYS.
REINFORCING: H-20 LOADING, 4X4/4X4 W.W.M., SLAB TOP #S @ 8" O.C.
SHIPLAP JOINTS SEALED W/ 1 STRIP OF 1" DIA. BUTYL RUBBER SEALANT
EACH CASTING TO HAVE LIFTING HOLES CAST IN
PLUG ALL HOLES & PIPE PENETRATIONS W/ NON SHRINK GROUT



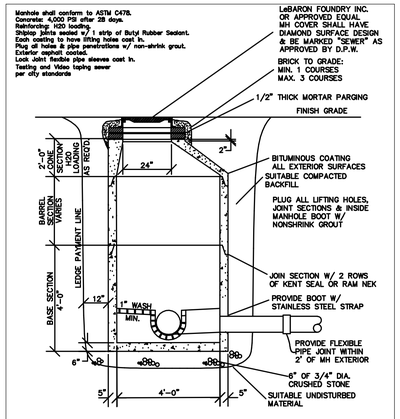
PRECAST CONCRETE
CATCH BASIN DETAIL
N.T.S.

NOTES:
CONCRETE: 4000 PSI AFTER 28 DAYS
REINFORCING: H-20 LOADING
SHIPLAP JOINTS SEALED W/ 2 ROW OF KENT SEAL OR RAM NEK
EACH CASTING TO HAVE LIFTING HOLES CAST IN
PLUG ALL HOLE AND PIPE PENETRATIONS W/ NON SHRINK GROUT
TESTING & VIDEO TAPING SEWER PER CITY STANDARDS



PRECAST CONCRETE
DRAIN MANHOLE
N.T.S.

Manhole shall conform to ASTM C478.
Concrete: 4,000 PSI after 28 days.
Reinforcing: H20 loading.
Shiplap joints sealed w/ 1 strip of Butyl Rubber Sealant.
Each casting to have lifting holes cast in.
Plug all holes & pipe penetrations w/ non-shrink grout.
Exterior asphalt coated.
Lock joint flexible pipe sleeves cast in.
Testing and Video taping sewer per city standards

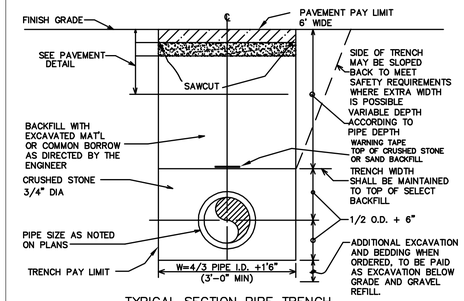


PRECAST CONCRETE
SANITARY SEWER MANHOLE
N.T.S.

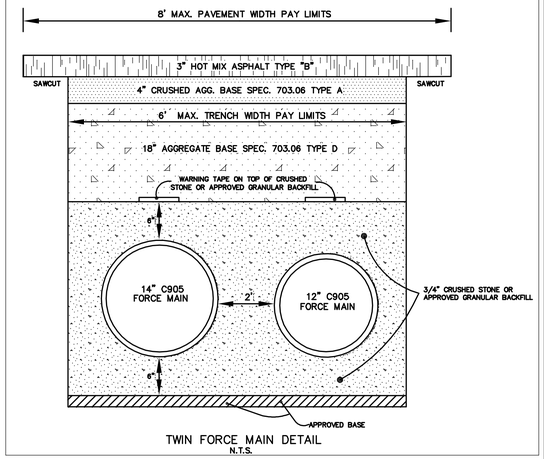
NOTES

1 TRENCH WIDTH SHOWN IS PAYMENT WIDTH FOR ROCK EXCAVATION AND REPLACEMENT OF UNSUITABLE MATERIAL

2 DO NOT MECHANICALLY COMPACT DIRECTLY OVER FLEXIBLE PIPE (E.G. PVC)



TYPICAL SECTION PIPE TRENCH
NTS
PAVED AREAS – MAIN STREET



TWIN FORCE MAIN DETAIL
N.T.S.

No.	Revision	Date

DETAIL SHEET
MAIN STREET
SEWER SEPARATION AND
FORCE MAIN REPLACEMENT PROJECT
BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

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GENERAL NOTES:

1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "DIG-SAFE" AND LOCAL UTILITY COMPANIES AT LEAST 3 BUSINESS DAYS, BUT NOT MORE THAN 30 CALENDAR DAYS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, OR AS OTHERWISE REQUIRED BY MAINE STATE LAW.
2) THE CONSTRUCTION MONITOR'S PRESENCE ON SITE IS TO VIEW THE GENERAL PROGRESS OF THE WORK TO SEE IF IT IS IN GENERAL CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE TO INSURE THAT THE WORK IS BEING DONE AND COMPLETED IN STRICT COMPLIANCE WITH ALL CODES, AS WELL AS DONE IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND ALL SAFETY PROCEDURES & THE CONTRACT DOCUMENTS.
3) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS, METHODS AND TECHNIQUES EMPLOYED TO PERFORM THE WORK SHOWN ON THESE PLANS & THAT THE WORK IS DONE IN CONFORMANCE WITH ALL APPLICABLE CODES, REGULATIONS, ETC.
4) ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS SAFETY REGULATIONS.
5) ALL WORK SHALL BE IN CONFORMANCE WITH THE CITY OF BIDDEFORD AND ALL UTILITY COMPANIES STANDARDS.
6) CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL UTILITIES WITH THE RESPECTIVE COMPANY PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES OR CONFLICTS ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING.
7) THE CONTRACTOR SHALL SECURE ALL NECESSARY CONSTRUCTION ACTIVITY PERMITS FOR THE WORK SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION.
8) NO BLASTING WILL BE ALLOWED WITHIN 500 FT. OF ANY UTILITY WITHOUT THE NOTIFICATION AND APPROVAL OF THE APPROPRIATE UTILITY COMPANY. NO LEDGE BLASTING WILL BE PERMITTED WITHIN A UTILITY COMPANY EASEMENT UNTIL WRITTEN APPROVAL FROM THE UTILITY IS GIVEN. BLASTING OPERATIONS SHALL BE IN ACCORDANCE WITH MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION BLASTING REQUIREMENTS. BLASTING PERMITS SHALL BE OBTAINED FROM THE CITY PRIOR TO COMMENCEMENT OF OPERATION.
9) ALL PAVEMENT CUTS SHALL BE SAW CUT TO RESULT IN CLEAN EDGES. A TACK COAT SHALL BE APPLIED ALONG THE CUT EDGES AND NEW PAVEMENT BUTTED TO IT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10) CONDUIT SHALL BE USED FOR ELECTRIC, TELEPHONE AND TV IN ACCORDANCE WITH THE RESPECTIVE COMPANIES REQUIREMENTS.
11) ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED & MAINTAINED IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES, LATEST EDITION AND AS OTHERWISE SPECIFIED OR INDICATED ON DRAWINGS.
12) NOTIFY OWNER AND ENGINEER IF NEED ARISES TO PERFORM WORK OUTSIDE OF PROPERTY. DO NOT PROCEED WITH WORK UNTIL PERMISSION IS OBTAINED.
13) THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD). THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION ZONE TRAFFIC CONTROL.
14) OBSERVATIONS OF THE WORK IN PROGRESS AND ON-SITE VISITS BY THE ENGINEER ARE NOT TO BE CONSTRUED AS A GUARANTEE OR WARRANTY BY THE ENGINEER OF THE CONTRACTOR'S CONTRACTUAL RESPONSIBILITIES NOR THAT THE WORK IS BEING PERFORMED ACCORDING TO APPLICABLE CODE REQUIREMENTS FOR THE VARIOUS TRADES INVOLVED.
15) SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR SAFETY IN, ON OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY WITH ANY REGULATIONS RELATING HERETO.
16) THE CONTRACTOR SHALL MINIMIZE ALL OFF SITE SOIL TRACKING. ALL SOIL TRACKED OFF SITE SHALL BE IMMEDIATELY CLEANED UP TO THE SATISFACTION OF THE ENGINEER AND/OR OWNER.
17) ALL EXCAVATIONS FOR UTILITY LINES, CULVERTS, TRENCHES, OR TUNNELS SHALL MEET THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
18) THE CONTRACTOR SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO PREVENT ANY POTENTIAL POLLUTION CAUSED BY HIS/HER ACTIVITIES, INCLUDING VEHICLE FUELING, STORAGE OF FERTILIZERS OR CHEMICALS, ETC. THE CONTRACTOR SHALL HAVE IDENTIFIED PROCEDURES FOR HANDLING POTENTIAL POLLUTANTS AND HAVE IDENTIFIED SPILL PREVENTION AND RESPONSE PROCEDURES PRIOR TO ANY ACTIVITIES AT THE PROJECT SITE.
19) THE CONTRACTOR SHALL NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MISSING DIMENSIONS OR DISCREPENCIES IN DRAWINGS, DETAILS, NOTES, SPECIFICATIONS, FIELD STAKING OR PHYSICAL FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR PROCEEDS WITH THE WORK WITHOUT NOTIFYING THE ENGINEER, HE DOES SO AT HIS/HER OWN RISK.
20) DISPOSAL OF TRASH, ASPHALT, CONCRETE AND CONSTRUCTION DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR AND CONSIDERED PART OF THE WORK. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PERMISSIONS REQUIRED PRIOR TO DISPOSAL.
21) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP RECORD DRAWINGS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS.
22) UNDERGROUND UTILITIES ARE SHOWN FROM FIELD LOCATION IF POSSIBLE. OTHERS ARE SHOWN FROM RECORD DATA. THEIR EXACT LOCATION MAY DIFFER FROM THAT AS SHOWN, AND OTHERS MAY EXIST. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.
23) THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES. ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS/HER RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. CALL DIG SAFE 72 HOURS PRIOR TO DIGGING, DRILLING OR BLASTING. (1-888-344-7233)
24) THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL FROM THE ENGINEER.
25) THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
26) THE CONTRACTOR SHALL RESTORE, AT HIS/HER EXPENSE, LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED OUTSIDE THE LIMITS OF WORK OR NOT INCLUDED IN THE SCOPE OF WORK TO PRE-CONSTRUCTION CONDITION DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
27) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
28) THE CONTRACTOR WILL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A MAINE STATE LICENSED LAND SURVEYOR.
29) IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.
30) THE CONTRACTOR SHALL BE RESPONSIBLE TO CONDUCT EXPLORATORY TEST PITS AS SHOWN AND AS MAY BE REQUIRED TO DETERMINE UNDERGROUND CONDITIONS.
31) ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS FOR CONSTRUCTION.
32) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
33) THE CONTRACTOR SHALL GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE.
34) ALL MATERIAL SCHEDULES SHOWN ON THE DRAWINGS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING MATERIAL REQUIREMENTS PER THE CONTRACTOR DOCUMENTS.
35) ALL WORK SHALL BE PERFORMED TO A MINIMUM SPECIFICATIONS OF THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAYS AND BRIDGES, CURRENT EDITION, UNLESS OTHERWISE NOTED.
36) ALL PAVING, CURBS, AND STRUCTURES SHALL BE STAKED OUT BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
37) PRIOR TO ANY SOIL DISTURBANCE, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF BIDDEFORD ENGINEERING DEPARTMENT.
38) SOIL DISTURBANCE IS TO BE KEPT TO A MINIMUM AND ALL DISTURBED AREAS SHALL BE STABILIZED (WITH PERMANENT OR TEMPORARY MEASURES) AS QUICKLY AS POSSIBLE.
39) CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY WITH OWNER SO AS TO ELIMINATE CONFLICTS WITH FACILITY OPERATIONS AND FUNCTIONS.
40) CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ABUTTING/ADJACENT HOME OWNERS/LOT OWNERS IN ORDER TO REDUCE/ MINIMIZE CONFLICTS WITH ACCESS TO LOTS AND LOT FUNCTIONS.

DEMO NOTES:

1) CONTRACTOR TO PERFORM ALL SITE DEMOLITION WORK IN ACCORDANCE WITH THE LATEST EDITION OF MAINE DEP EROSION AND SEDIMENT CONTROL; BEST MANAGEMENT PRACTICES, ALSO COMPLY WITH ALL ENVIRONMENTAL AND REGULATORY PERMITS. CONTRACTOR SHALL NOT COMMENCE WORK UNTIL ALL REQUIRED PERMITS HAVE BEEN RECEIVED.
2) CONTRACTOR TO PERFORM THE WORK OF THIS PROJECT IN A MANNER TO MINIMIZE IMPACT TO STRUCTURES AND FEATURES TO REMAIN OR OTHERWISE NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHALL REPAIR ANY DAMAGE OR IMPACT TO THE OWNER'S SATISFACTION AND TO MEET OR EXCEED PREVIOUS CONDITIONS.
3) ITEMS INDICATED TO BE DEMOLISHED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS INDICATED OTHERWISE. DEMOLITION INCLUDES PROMPT REMOVAL FROM THE OWNER'S PROPERTY AND PROPER DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES.
4) IN THE CASE OF AN ITEM TO REMAIN THE PROPERTY OF THE OWNER, THE CONTRACTOR SHALL CAREFULLY REMOVE ITEMS IN AN EFFORT TO AVOID UNNECESSARY DAMAGE. COORDINATE REMOVAL WITH THE OWNER AND DELIVER TO DESIGNATED STORAGE FACILITY.
5) ITEMS TO BE RELOCATED AS PART OF THE WORK OF THIS PROJECT WILL BE COORDINATED WITH THE OWNER. AT THE OWNER'S DISCRETION, SOME ITEMS MAY BE PLACED TEMPORARILY IN STORAGE PRIOR TO RELOCATION.
6) REMOVAL OF EXISTING UTILITY POLES AND TRANSFORMER SHALL BE COORDINATED BY THE CONTRACTOR WITH CENTRAL MAINE POWER/VERIZON AS APPLICABLE.

LANDSCAPING NOTES:

1) THE LANDSCAPE CONTRACTOR SHALL SUPPLY AND INSTALL ALL PLANTS IN SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE DRAWINGS AND THE PLANT LIST SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND SHALL NOT ENTITLE THE CONTRACTOR TO ADDITIONAL REMUNERATION.
2) THE LANDSCAPE CONTRACTOR IS ADVISED THAT BELOW GROUND UTILITIES EXIST ON SITE, THE LOCATIONS OF WHICH SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF OPERATIONS. SHOULD THE LOCATION OF ANY PROPOSED PLANTING CONFLICT WITH ANY UTILITY, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR DECISION.
3) ANY AND ALL PAVING, CURBING, UTILITIES, LAWNS, ETC. DAMAGED AS A RESULT OF THE LANDSCAPE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4) ALL PLANTING BEDS INCLUDING TREE AND SHRUB PITS AS INDICATED SHALL RECEIVE 3" APPROVED CLEAN, UNIFORMLY GROUND OR SHREDDED PINE OR HEMLOCK BARK MULCH.
5) LOCATIONS OF PROPOSED PLANTINGS AND BED LINES SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.
6) THE LANDSCAPE CONTRACTOR SHALL RELOCATE ANY PLANT ACCORDING TO THE DIRECTION OF THE ENGINEER.
7) ALL PLANT MATERIALS CALLED FOR AND INSTALLED SHALL MEET OR EXCEED SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (LATEST EDITION) AS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
8) ALL PLANTING BEDS SHALL BE DEFINED BY A NEAT, SHOVEL-CUT BED LINE. BED LINES SHALL BE TRUE TO FORM AS SHOWN ON THE DRAWINGS, CONSISTING OF SMOOTH CURVES AND SHARP LINES AND CORNERS.
9) IF, BECAUSE OF CULTURE REQUIREMENTS, AVAILABILITY, OR OTHER CIRCUMSTANCES, THE LANDSCAPE CONTRACTOR BELIEVES A PARTICULAR PLANT CALLED FOR IS INAPPROPRIATE OR UNAVAILABLE, THE LANDSCAPE CONTRACTOR SHALL REPORT THE SITUATION IMMEDIATELY TO THE ENGINEER FOR DECISION.

UTILITY NOTES:

1) INFORMATION REGARDING THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS A COMPILATION OF THAT FOUND IN THE FIELD AND THAT SHOWN ON PREVIOUS PLANS, AND SHALL NOT BE CONSIDERED AN AS-BUILT PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING UTILITY LOCATIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN UTILITIES AS SHOWN AND AS FOUND. CONTRACTOR SHALL NOTIFY DIGSAFE PRIOR TO ANY EXCAVATION. (1-888-344-7233)
2) PROVIDE AND INSTALL MATERIALS NECESSARY TO COMPLETE UTILITY FEATURES AND DESIGN UNLESS OTHERWISE INDICATED.
3) ALL WORK SHALL MEET OR EXCEED STANDARDS OF THE CITY OF BIDDEFORD AND THE BIDDEFORD/SACO WATER DISTRICT.
4) UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
5) CONTRACTOR TO VERIFY EXISTING UTILITY CONNECTION POINTS PRIOR TO SUBMISSION OF BIDS AND INCLUDE ALL WORK REQUIRED TO EXTEND UTILITIES AS REQUIRED.
6) THE CONTRACTOR SHALL PROVIDE CAST-IN-PLACE CONCRETE THRUST BLOCKS PER WATER CO. STANDARDS AT ALL TEES AND BENDS IN THE NEW WATER MAIN PIPING. SEE THRUST BLOCK SCHEDULE AND DETAILS ON THE DRAWINGS.
7) EXISTING FIRE HYDRANTS TO REMAIN ACTIVE AT ALL TIMES.
8) AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL SPRAY THE INSIDE OF THE END OF WATER PIPE WITH SODIUM HYPOCHLORITE AND BLOCK PIPE OVERNIGHT WITH SANITARY WATERTIGHT PLUG TO PREVENT ANIMALS FROM ENTERING PIPE.
9) ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND HAVE BEEN DETERMINED BY SURFACE EVIDENCE AND/OR PREVIOUSLY GENERATED PLANS. NO GUARANTEE IS MADE THAT ALL UTILITIES ARE SHOWN OR WILL BE FOUND IN LOCATIONS INDICATED. THIS INFORMATION IS PROVIDED FOR REFERENCE AND THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND POINTS OF CONNECTION IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND RESTORATION OF ALL UTILITES DISTURBED DURING CONSTRUCTION AT NO EXTRA EXPENSE TO THE OWNER.

GRADING NOTES:

1) THE CONTRACTOR SHALL PHASE GRADING EFFORTS SUCH THAT TOTAL SITE DISTURBANCE IS MINIMIZED. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO GRADING EFFORTS OR WITHOUT DELAY UPON THEIR COMPLETION, DEPENDENT UPON THE SITUATION.
2) ALL FILL SLOPES SHALL BE A MINIMUM OF 3:1 HORIZONTAL TO VERTICAL, UNLESS OTHERWISE INDICATED.
3) THE LIMITS OF DISTURBANCE SHALL GENERALLY BE THE MINIMAL EXTENT NECESSARY ONLY TO PERFORM THE GRADING EFFORTS SHOWN ON THE DRAWINGS. SPECIAL CARE SHALL BE TAKEN TO AVOID DISTURBANCE OF OBJECTS AND AREAS NOT SPECIFICALLY IDENTIFIED FOR MODIFICATION OR REMOVAL.
4) ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED IN ACCORDANCE WITH THE DRAWINGS. LOAM SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES IN ALL AREAS INDICATED FOR GRASS COVER UNLESS OTHERWISE NOTED.
5) STORM DRAINS SHALL BE CONSTRUCTED CONCURRENTLY WITH GRADING EFFORTS TO PROVIDE ADEQUATE CONVEYANCE FOR ANY SITE RUNOFF CONDITIONS.
6) WHERE FINAL GRADING HAS BEEN COMPLETED, SURFACE RESTORATION FOR DISTURBED AREAS WILL BE COMPLETED AS SOON AS PRACTICABLE. FOR VEGETATED AREAS, VEGETATION WILL BE PROGRESSIVELY ESTABLISHED.
7) ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED ON A REGULAR BASIS AND AS REQUIRED AFTER STORM EVENTS.
8) ALL SLOPES GREATER THAN 4H:1V AND LESS THAN 2H:1V SHALL RECEIVE EROSION CONTROL BLANKET AS DETAILED.
9) ALL SLOPES GREATER THAN OR EQUAL TO 2H:1V SHALL RECEIVE RIPRAP SLOPE PROTECTION AS DETAILED.

GENERAL EROSION CONTROL NOTES:

1) SPECIFIC EROSION CONTROL MEASURES AND SPECIFICATIONS FOR THE PROJECT ARE PROVIDED IN THE DRAWINGS. THESE MEASURES REPRESENT THE MINIMUM OF EFFORT ANTICIPATED TO BE PERFORMED. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL TEMPORARY EROSION CONTROL MEASURES AT NO COST TO THE OWNER AS SITE CONDITIONS WARRANT.
2) LAND DISTURBANCE SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
3) PRIOR TO COMMENCING ANY DISTURBANCE ACTIVITIES, THE SITE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON DRAWINGS AND AS FIELD CONDITIONS WARRANT.
4) TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED, INSPECTED, AND RESTORED AS NEEDED.
5) PERMANENT EROSION CONTROL MEASURES SHALL BE INSTALLED WITHOUT DELAY UPON COMPLETION OF THE ASSOCIATED SITE FEATURES.

No.	Revision	Date

NOTES SHEET
MAIN STREET
SEWER SEPARATION AND
FORCE MAIN REPLACEMENT PROJECT
BIDDEFORD, MAINE 04005

The City of Biddeford, Maine
Engineering Department
205 Main Street • P.O. Box 586 • Biddeford, Maine 04005-0586
Telephone: 207-284-9118 • Fax: 207-282-8327

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