STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TMSI

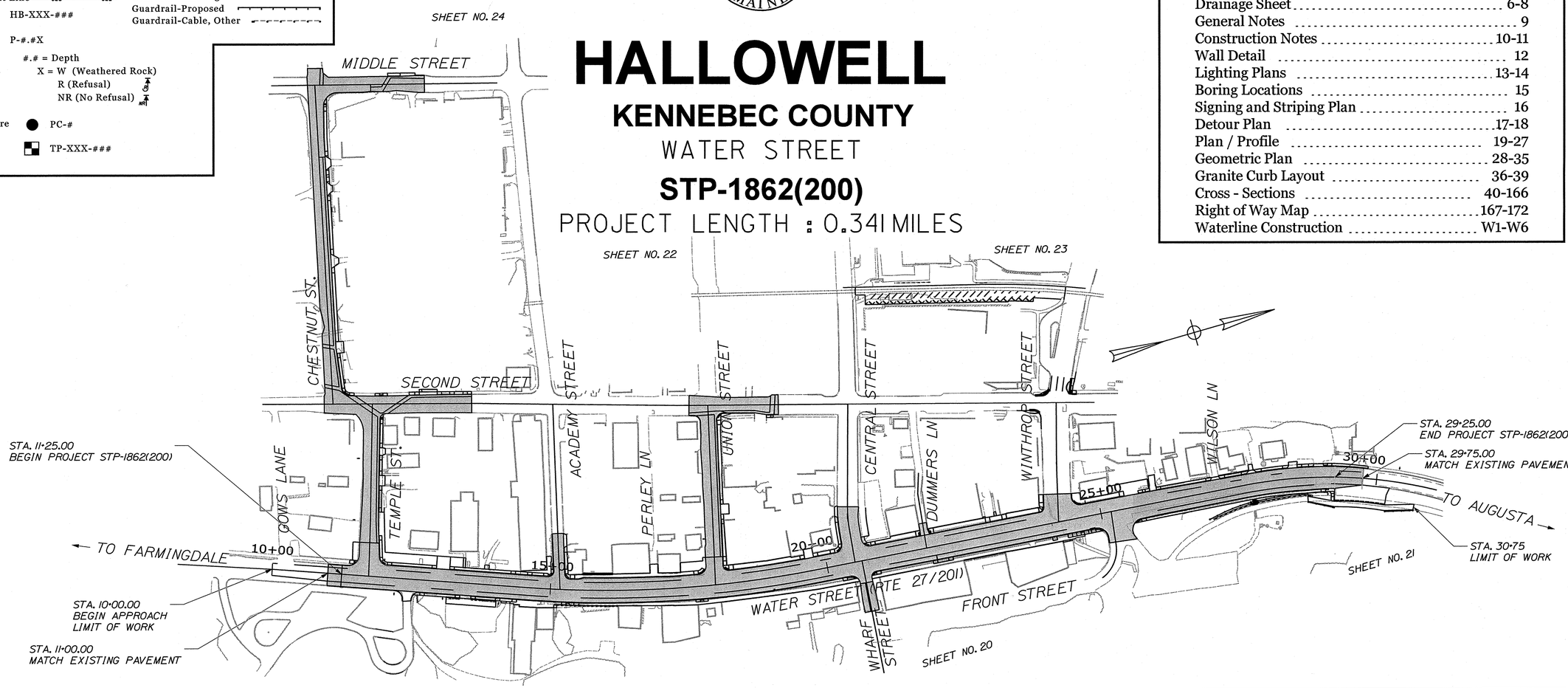
PLAN LEGEND

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
Exposed Bedrock
Buildings
Trees — Conifer / Deciduous
Tree Line
Clearing Limit Line — CLL
Boring — HB-XXX-###
Probe — P-#.#X

#.# = Depth
X = W (Weathered Rock)
R (Refusal)
NR (No Refusal)

Pavement Core — PC-#
Test Pit — TP-XXX-###

Centerline-Existing
Centerline-Proposed — 10+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins — Existing / Proposed
Manholes — Existing / Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles — Existing / Proposed
Existing / Proposed
Existing Water Line
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other



HALLOWELL

KENNEBEC COUNTY

WATER STREET

STP-1862(200)

PROJECT LENGTH = 0.341 MILES

LAYOUT SCALE

100 0 100 200

Scale in Feet

INDEX OF SHEETS

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Waterline Construction	W1-W6

TRAFFIC DATA

	SR 27/US 201 NORTH OF WINTHROP ST.	SR 27/US 201 SOUTH OF WINTHROP ST.	WINTHROP ST. WEST OF SR 27/US 201
Current (2018) AADT	11,370	14,390	5,820
Future (2038) AADT	12,150	15,830	6,400
DHV - % of AADT	8%	9%	8%
Design Hour Volume	1,045	1,369	534
% Heavy Trucks (AADT)	6%	5%	3%
% Heavy Trucks (DHV)	3%	2%	2%
Directional Distribution (DHV)	68%	63%	53%
18 kip Equivalent P 2.0	322	320	81
18 kip Equivalent P 2.5	307	305	77
Design Speed (mph)	25	25	25
Functional Class:	MINOR ART.	MINOR ART.	MAJOR URB. COLL.
Corridor Priority:	1	1	4

PROJECT LOCATION:	WATER STREET IN HALLOWELL BEGINNING AT THE INTERSECTION OF TEMPLE STREET AND EXTENDING APPROXIMATELY 0.4 MILES NORTH
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	RECONSTRUCTION WITH GRADING, DRAINAGE, BASE, AND PAVING

WIN 18622.00 STP-1862(200)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE 1/25/18

COMMISSIONER: [signature]

CHIEF ENGINEER: [signature] — DATE 1/25/18

STATE OF MAINE — JAMES L. EASON — No. 7960 — REGISTERED PROFESSIONAL ENGINEER

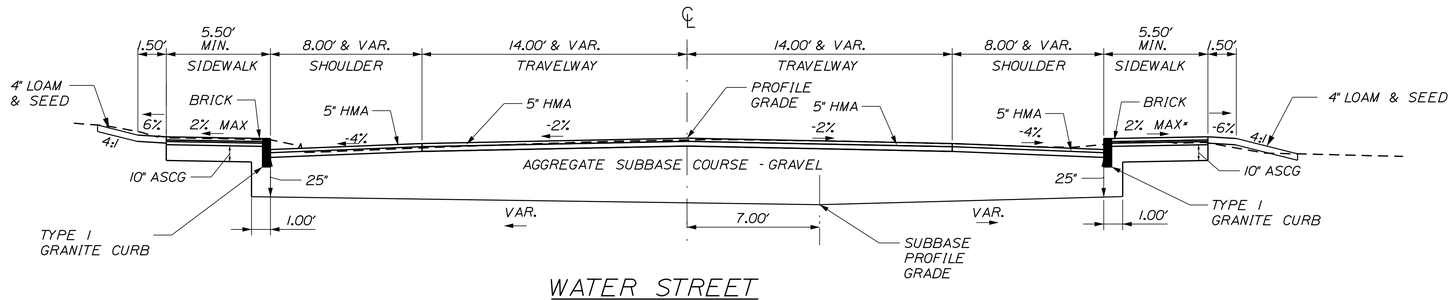
PROJECT INFORMATION		SIGNATURE	P.E. NUMBER
PROGRAM	HIGHWAY		
PROJECT MANAGER	ERNEST MARTIN	7960	
DESIGNER	A. GODFREY/J. EASON		
CONSULTANT	TERRA MAGNA SERVICES, INC.	1/12/18	
PROJECT RESIDENT		DATE	
CONTRACTOR			
PROJECT COMPLETION DATE			

HALLOWELL
WATER STREET

TITLE SHEET

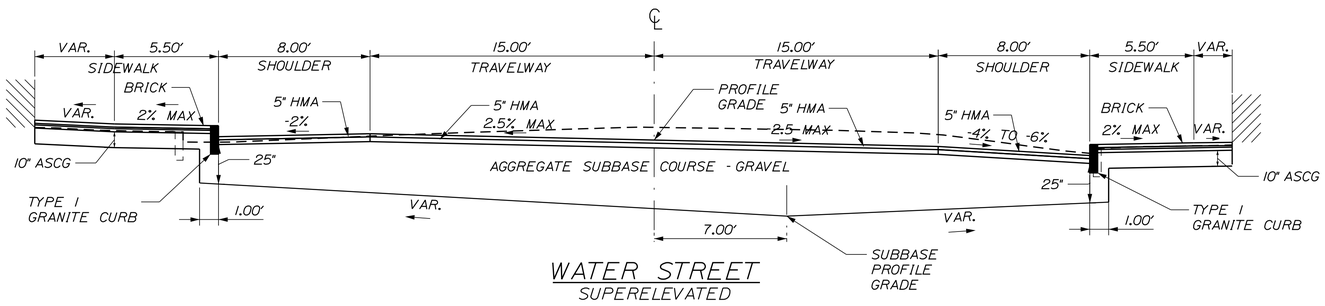
SHEET NUMBER 1 OF 172

Filename: ...\001_Title_01.dgn Division: HIGHWAY Username: common Date:1/22/2018



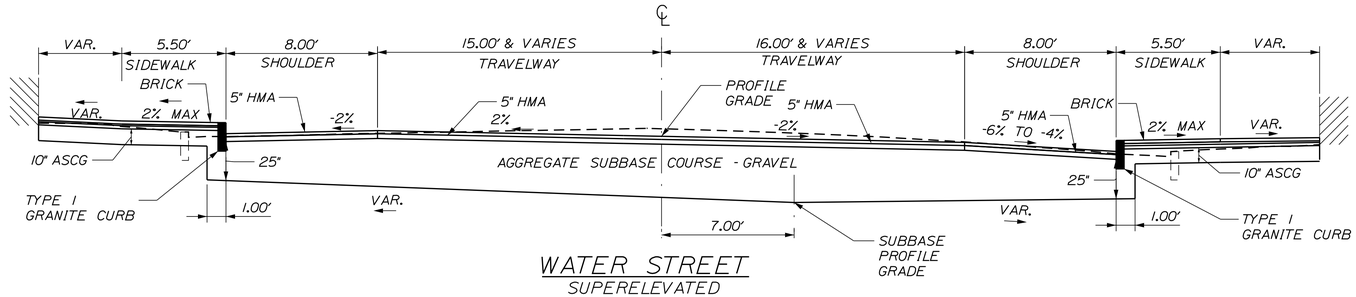
WATER STREET
NORMAL

AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)				
5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF	8' LEFT SHLD. VARIES	28' WIDTH TRAVELWAY VARIES	8' RIGHT SHLD. VARIES	5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
15+05 TO 17+00	11+00 TO 17+00	11+00 TO 17+00	11+00 TO 17+00	14+70.9 TO 17+00



WATER STREET
SUPERELEVATED

AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)				
5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF	8' LEFT SHLD. VARIES	30' WIDTH TRAVELWAY VARIES	8' RIGHT SHLD. VARIES	5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
17+00 TO 20+50	17+00 TO 20+50	17+00 TO 20+50	17+00 TO 20+50	17+00 TO 20+50

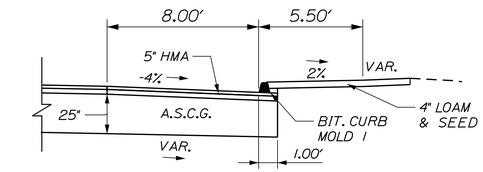


WATER STREET
SUPERELEVATED

AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)				
5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF	8' LEFT SHLD. VARIES	31' WIDTH TRAVELWAY VARIES	8' RIGHT SHLD. VARIES	5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
20+50 TO 24+50	20+50 TO 24+50	20+50 TO 24+50	20+50 TO 24+50	20+50 TO 24+50

SUPERELEVATION TABLE

LT. SHLD.	TRAVELWAY	STATION	TRAVELWAY	RT. SHLD.
EXIST	EXIST.	11+00	EXIST.	EXIST.
-4.0%	-2.0%	11+35	-2.0%	-4.0%
-4.0%	-2.0%	15+00	-2.0%	-4.0%
-4.0%	-0.9%	15+50	-2.0%	-4.0%
-4.0%	+0.2%	16+00	-2.0%	-4.0%
-4.0%	+1.4%	16+50	-2.0%	-4.0%
-3.0%	+1.9%	16+75	-2.0%	-6.0%
-2.0%	+2.5%	17+00	-2.5%	-6.0%
-2%	+2.5%	18+00	-2.5%	-6.0%
-2%	+2.0%	18+50	-2.0%	-4.0%
-2%	+2.0%	23+00	-2.0%	-4.0%
-2%	+2.0%	23+50	-2.0%	-6.0%
-2%	+2.0%	24+00	-2.0%	-6.0%
-2.0%	+1.0%	24+50	-2.0%	-6.0%
-2.0%	0.0%	25+00	-2.0%	-4.0%
-2.0%	-1.0%	25+50	-2.0%	-4.0%
-2.0%	-2.0%	26+00	-2.0%	-4.0%
-2.0%	-2.0%	28+25	-2.0%	-4.0%
-2.0%	-2.0%	28+50	-3.0%	-4.0%
-2.0%	-2.0%	29+00	-5.0%	-5.0%
EXIST.	EXIST.	29+50	EXIST.	EXIST.



A.S.C.G. (ITEM 304.10)
8' RIGHT SHLD. - NO SIDEWALK VARIES
STATION TO STATION
11+00 TO 12+50 RT.

NOTE:

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER'S PAVEMENT SHALL HAVE THE SAME CROSS SLOPE AS THE TRAVEL WAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. EXCEPT WHERE NOTED, THE GRAVEL QUANTITY CALCULATION IS BASED ON 4" LOAM. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
5. THE ALGEBRAIC DIFFERENCE BETWEEN SHOULDER AND TRAVEL LANE CROSS SLOPE'S "ROLLOVER" SHALL NOT EXCEED 8%.
6. THE STATION SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
7. HMA = HOT MIX ASPHALT
   A.S.C.G. = AGGREGATE SUBBASE COURSE - GRAVEL

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

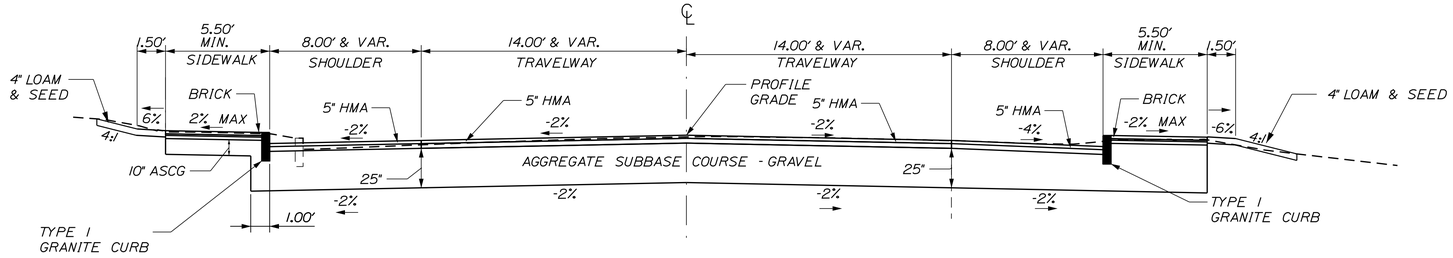
			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2	ALG		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

TYPICAL SECTIONS

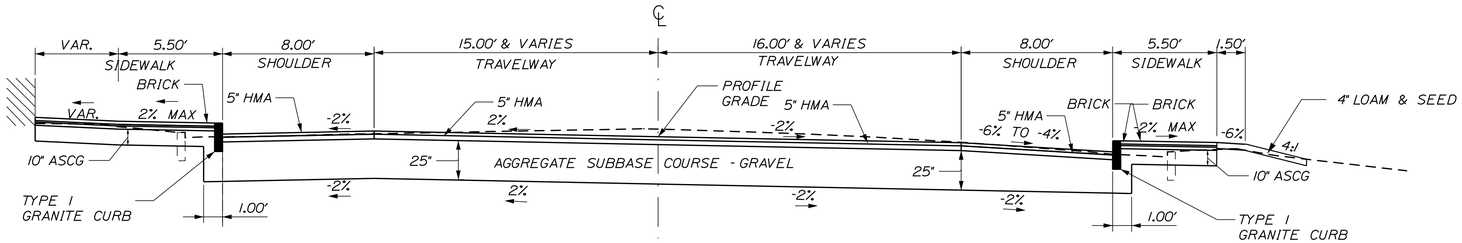
SHEET NUMBER
2
OF 172

Filename: ...\002_Typical_01.dgn Division: HIGHWAY Username: common Date:1/22/2018



WATER STREET
NORMAL

	AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)			
5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF	8' LEFT SHLD. 61.74 CY/100 LF	28' WIDTH TRAVELWAY 216.05 CY/100 LF	8' RIGHT SHLD. 59.37 CY/100 LF	5.5' SIDEWALK 48.59 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
26+00 TO 28+75*	26+00 TO 28+75	26+00 TO 28+75	26+00 TO 28+75*	26+00 TO 28+75*



WATER STREET
SUPERELEVATED

	AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)			
5.5' SIDEWALK VAR. WIDTH WALK 22.14 CY/100 LF 3.09 CY/1 LF WIDTH/100 LF	8' LEFT SHLD. 61.73 CY/100 LF	31' WIDTH TRAVELWAY 239.20 CY/100 LF	8' RIGHT SHLD. 59.37 CY/100 LF (4%) 57.01 CY/100 LF (6%)	5.5' SIDEWALK 22.14 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
24+50 TO 26+00	24+50 TO 26+00	24+50 TO 26+00	24+50 TO 26+00	24+50 TO 26+00

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES E. JAMESON No. 7960 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE

7960 P.E. NUMBER

1/12/18 DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

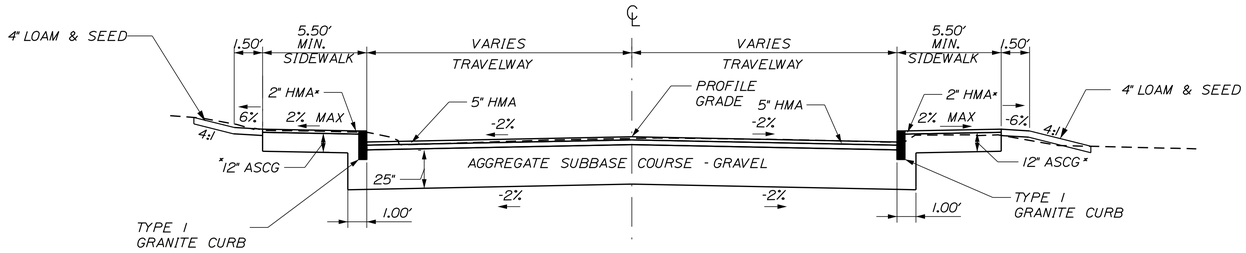
TYPICAL SECTIONS

SHEET NUMBER

3

OF 172

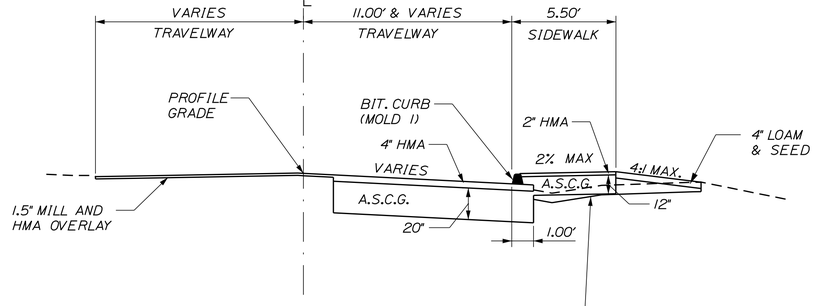
Filename: ...\003_Typical_02.dgn Division: HIGHWAY Username: common Date:1/22/2018



SIDE STREETS
NORMAL

*BRICK - WINTHROP STREET

AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)			
LEFT 5.5' SIDEWALK 24.85 CY/100 LF	VAR. WIDTH HMA WALK 3.70 CY/1 LF WIDTH/100 LF	VAR. WIDTH TRAVELWAY 7.72 CY/1 LF WIDTH/100 LF	RIGHT 5.5' SIDEWALK 24.65 CY/100 LF / VAR. WIDTH HMA WALK 3.70 CY/1 LF WIDTH/100 LF
STATION TO STATION		STATION TO STATION	STATION TO STATION
		100+25 TO 100+60	100+25 TO 100+60
200+35.65 TO 200+60		200+35.65 TO 201+00	200+35.65 TO 200+78
		300+43.68 TO 300+50	300+43.68 TO 300+50
400+34.69 TO 401+00		400+34.69 TO 401+00	
		500+40 TO 500+40	
700+34.6 TO 700+50		700+34.6 TO 700+50	700+34.6 TO 700+50
		800+50 TO 800+55	



REMOVE EXISTING PAVEMENT TO ESTIMATED DEPTH OF 6 INCHES. UNDER REPAVED AREAS REGRADE EXISTING SUBBASE AND SHIM WITH VARIABLE DEPTH UNTREATED AGGREGATE SURFACE COURSE. REGRADING AND SHIMMING OF EXISTING SUBBASE WILL BE INCIDENTAL TO ITEM 304.10.

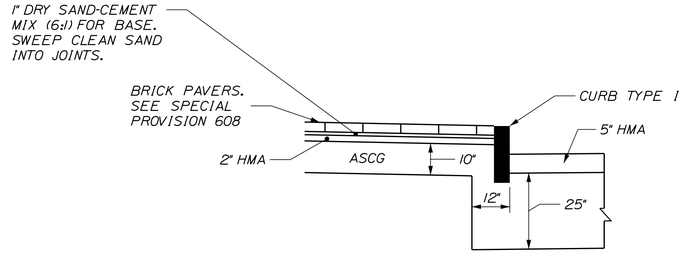
PAY LIMITS FOR FULL DEPTH REBASING AND PAVING SHALL BE AS SHOWN ON CROSS SECTIONS.

NOTE:

PAVEMENT STRUCTURE FOR FULL DEPTH RECONSTRUCTION IS ASSUMED FOR PAVEMENT REPAIR IN AREAS OF PIPE CONSTRUCTION WITH IMPACTED SIDEWALKS REPLACED TO ADA MINIMUM STANDARDS.

SIDE STREETS
MILLING AND PARTIAL FULL DEPTH RECONSTRUCTION

AGGREGATE SUBBASE COURSE - GRAVEL (ITEM 304.10)		
LEFT 5.5' SIDEWALK 28.65 CY/100 LF	VAR. WIDTH TRAVELWAY 6.17 CY/1 LF WIDTH/100 LF	RIGHT 5.5' SIDEWALK 28.65 CY/100 LF
	STATION TO STATION	STATION TO STATION
	100+60 TO 102+75	100+60 TO 102+75
	300+50 TO 303+00	300+50 TO 303+00
902+63.2 TO 903+75	901+50 TO 903+75	
	907+65 TO 909+25	
	1004+40 TO 1005+50	1004+40 TO 1005+50
	2000+00 TO 2001+95	

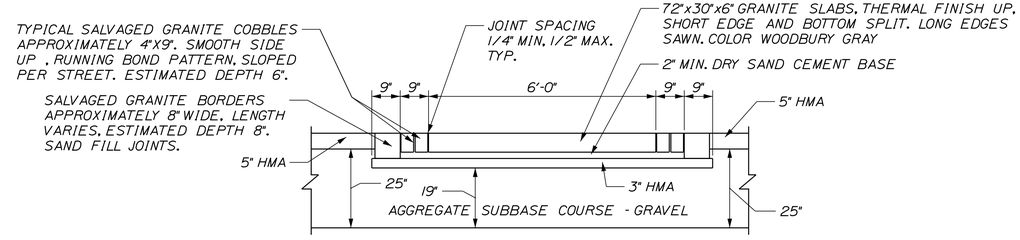


INSTALL 4" WIDE X 8.5" HIGH PIECE OF FILTER FABRIC AT BACK OF CURB AT EACH CURB JOINT. PAYMENT WILL BE INCIDENTAL TO CURB.

1/2" PREFORMED EXPANSION JOINT FILLER W/5/8" BACKER ROD AND JOINT SEALANT TYP. AT ALL WALL, STEP, SIDEWALK, AND BUILDING INTERFACES. PAYMENT WILL BE INCIDENTAL TO BRICK SIDEWALK WITH BITUMINOUS BASE. ITEM 608.15.

ALL BRICKS SHALL BE CUT WITH A PAVER SAW AND CUT-OFF WHEEL.

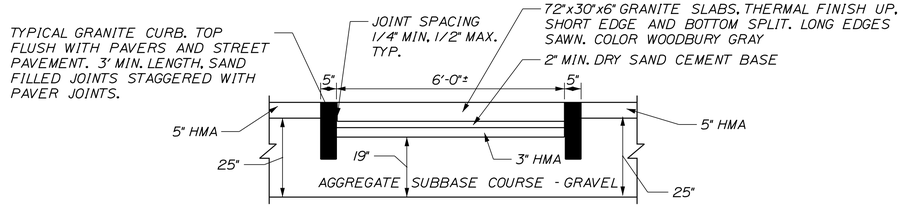
BRICK SIDEWALK
NOT TO SCALE



GRANITE CROSSWALK SECTION AT WINTHROP STREET
NOT TO SCALE

NOTES - GRANITE CROSSWALKS.

1. DRY SAND-CEMENT SHALL BE SIX PARTS OF WASHED MORTAR SAND TO ONE PART PORTLAND CEMENT.
2. DRY SAND CEMENT SHALL BE PLACED AND SWEPT INTO THE JOINTS TO WITHIN 1/4" OF THE SURFACE.
3. ALL SURPLUS SAND-CEMENT SHALL BE SWEPT FROM THE GRANITE PAVER SURFACE.
4. A FINAL APPLICATION OF SAND ONLY SHALL BE SPREAD ON THE GRANITE PAVER SURFACE.
5. STAGGER PAVER JOINTS.



GRANITE CROSSWALK SECTION AT WATER STREET
NOT TO SCALE

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L EASON No. 7960 REGISTERED PROFESSIONAL ENGINEER

	SIGNATURE
7960	P.E. NUMBER
1/12/18	DATE

PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	JLE	ALG	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL WATER STREET

TYPICAL SECTIONS

SHEET NUMBER 4 OF 172

Filename: ...\004_Typical_03.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\005_Estimate_01.dgn Division: HIGHWAY Username: common Date:1/24/2018

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
107.51	PROSECUTION OF WORK - INITIAL SCHEDULE	1	LS
107.53	PROSECUTION OF WORK - BIWEEKLY UPDATES	16	EACH
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	46	EACH
202.202	REMOVING PAVEMENT SURFACE	4,600	SY
203.20	COMMON EXCAVATION	13,000	CY
203.2312	HEALTH AND SAFETY PLAN (HASP)	1	LS
203.2333	DISPOSAL/TREATMENT OF SPECIAL EXCAVATION	50	TON
203.24	COMMON BORROW	50	CY
203.25	GRANULAR BORROW	250	CY
206.061	STRUCT EARTH EXC-DRAIN & MINOR STRUCT-BELOW GRADE	100	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	12,000	CY
403.2081	12.5mm POLYMER MODIFIED HMA	1,330	TON
403.209	HOT MIX ASPHALT, 9.5mm (SW,DRIVES,INCIDENTALS)	740	TON
403.211	HOT MIX ASPHALT (SHIM)	73	TON
403.2131	12.5mm POLYMER MODIFIED HMA BASE	2,090	TON
409.15	BITUMINOUS TACK COAT - APPLIED	600	GAL
461.131	TEMPORARY PAVEMENT	800	TON
525.31	GRANITE SLAB CROSSWALK	1,130	SF
526.301	TEMPORARY CONCRETE BARRIER, TYPE 1	1,300	LF
527.34	WORK ZONE CRASH CUSHION	5	UNIT
603.155	12" RCP CLASS III	315	LF
603.159	12" CULVERT PIPE OPTION III	490	LF
603.165	15" RCP CLASS III	61	LF
603.169	15" CULVERT PIPE OPTION III	93	LF
603.179	18" CULVERT PIPE OPTION III	87	LF
603.199	24" CULVERT PIPE OPTION III	152	LF
603.205	30" RCP CLASS III	45	LF
603.209	30" CULVERT PIPE OPTION III	8	LF
603.215	36" RCP CLASS III	65	LF
603.219	36" CULVERT PIPE OPTION III	708	LF
603.225	42" RCP, CLASS III	48	LF
603.241	54" CORRUGATED METAL PIPE	16	LF
603.43	36" RCP CLASS IV	203	LF
603.431	36" RCP CLASS V	43	LF
604.072	CATCH BASIN TYPE AI-C	3	EACH
604.076	60" CATCH BASIN, TYPE AI-C	3	EACH
604.077	72" CATCH BASIN TYPE AI-C	3	EACH
604.09	CATCH BASIN TYPE BI	8	EACH
604.092	CATCH BASIN TYPE BI-C	8	EACH
604.093	60" CATCH BASIN TYPE BI	2	EACH
604.094	72" CATCH BASIN TYPE BI	1	EACH
604.096	60" CATCH BASIN TYPE BI-C	5	EACH
604.097	72" CATCH BASIN TYPE BI-C	3	EACH
604.0956	96" CATCH BASIN TYPE BI	4	EACH
604.0957	96" CATCH BASIN TYPE BI-C	2	EACH
604.156	96" MANHOLE	3	EACH
604.16	ALTER CB TO MH	1	EACH
604.245	CATCH BASIN TYPE F4-C	2	EACH
604.247	CATCH BASIN TYPE F5-C	1	EACH
604.252	CATCH BASIN TYPE A5-C	26	EACH
604.26	CATCH BASIN TYPE B5	2	EACH
604.262	CATCH BASIN TYPE B5-C	4	EACH
604.2621	60" CATCH BASIN TYPE B5-C	3	EACH
604.33	SURFACE DRAIN	32	LF
604.573	CATCH BASIN TYPE AI-C 96" DIAMETER	2	EACH
605.07	4" UNDERDRAIN PIPE	100	LF
605.09	6" UNDERDRAIN, TYPE B	490	LF
605.10	6" UNDERDRAIN OUTLET	620	LF
605.11	12" UNDERDRAIN TYPE C	1,020	LF
605.12	15" UNDERDRAIN TYPE C	369	LF
605.13	18" UNDERDRAIN TYPE C	180	LF
605.15	24" UNDERDRAIN TYPE C	253	LF
605.17	30" UNDERDRAIN TYPE C	220	LF
605.18	36" UNDERDRAIN TYPE C	60	LF
606.365	GR REMOVE MODIFY AND RESET, TYPE 3B TO 3C	110	LF
606.47	SINGLE WOOD POST	23	EACH
607.1701	TEMPORARY CHAIN LINK FENCE - 6'	1,300	LF
607.22	CEDAR RAIL FENCE	303	LF
607.24	REMOVE AND RESET FENCE	160	LF
607.39	PEDESTRIAN FENCE	106	LF
607.44	SAFETY FENCE	200	LF
608.08	REINFORCED CONCRETE SIDEWALK	8	SY
608.15	BRICK SIDEWALK WITH BITUMINOUS BASE	2,605	SY
608.26	CURB RAMP DETECTABLE WARNING FIELD	424	SF
609.11	VERTICAL CURB TYPE 1	2,780	LF
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	20	LF
609.19	VERTICAL CURB TYPE 2	60	LF
609.234	TERMINAL CURB TYPE 1-4 FOOT	2	EACH
609.2341	TERMINAL CURB TYPE 1-4 FOOT - CIRCULAR	3	EACH
609.238	TERMINAL CURB TYPE 1-8 FOOT	70	EACH
609.2381	TERMINAL CURB TYPE 1-8 FOOT - CIRCULAR	5	EACH
609.31	CURB TYPE 3	1,070	LF
609.312	SPECIAL CURB	55	LF
609.38	RESET CURB TYPE 1	314	LF
615.07	LOAM	380	CY

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
618.13	SEEDING METHOD NUMBER 1	31	UNIT
619.12	MULCH	31	UNIT
620.60	SEPARATION GEOTEXTILE	1,300	SY
626.11	PRECAST CONCRETE JUNCTION BOX	8	EACH
626.21	METALLIC CONDUIT	25	LF
626.22	NON-METALLIC CONDUIT	2,800	LF
626.31	18" FOUNDATION	45	EACH
626.35	CONTROLLER CABINET FOUNDATION	1	EACH
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	22	EACH
627.733	4" WHITE OR YELLOW PAINTED PVMT MARKING LINE	12,300	LF
627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	1,900	SF
627.77	REMOVING PAVEMENT MARKINGS	200	SF
627.78	TEMP. 4" PAINT PVMT. MARK LINE, WHITE OR YELLOW	40,000	LF
629.05	HAND LABOR, STRAIGHT TIME	120	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	25	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	25	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	120	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	120	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	5	HR
631.20	STUMP CHIPPER (INCLUDING OPERATOR)	5	HR
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	24	HR
634.160	HIGHWAY LIGHTING	1	LS
634.70	ORNAMENTAL LIGHTING	19	EACH
634.72	RELOCATE ORNAMENTAL LIGHTING (22 fixtures)	1	LS
639.18	FIELD OFFICE TYPE A	1	EACH
642.184	GRANITE STEP	7	EACH
645.106	DEMOUNT REG. WRNG. CONF & RTE MARKER SIGN	73	EACH
645.116	REINSTALL REG. WRNG. CONF & RTE MARKER SIGN	73	EACH
645.292	REG WARN CONF RTE SIGNS TYPE II	70	SF
652.311	TYPE II BARRICADE	5	EACH
652.33	DRUM	150	EACH
652.34	CONE	150	EACH
652.35	CONSTRUCTION SIGNS	1,100	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	200	CD
652.38	FLAGGER	3,150	HR
652.381	TRAFFIC OFFICER	100	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	3	EACH
656.75	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL PLAN	1	LS
659.10	MOBILIZATION	1	LS
679.20	RECYCLED GRANITE CURB WALL	760	SF
801.03	TEST PITS	10	EACH
801.16	6" PVC SANITARY SEWER (SDR 35)	180	LF
841.48	BOLLARDS	4	EACH
	WATER UTILITIES		
461.131	TEMPORARY PAVEMENT	200	TON
648.031	16" DIA. SCHEDULE 40 RAILROAD SLEEVE	40	LF
648.21	8" DR 11 DIPS HDPE	50	LF
652.38	FLAGGER	100	HR
659.10	MOBILIZATION	1	LS
822.33	6" CLASS 52 DUCTILE IRON PIPE	185	LF
822.34	8" CLASS 52 DUCTILE IRON PIPE	1440	LF
822.36	12" CLASS 52 DUCTILE IRON PIPE	1877	LF
823.311	12" GATE VALVE WITH BOX	8	EA
823.3251	8" GATE VALVE WITH BOX	12	EA
823.33	6" GATE VALVE WITH BOX	8	EA
823.332	GATE VALVE BOX, ADJUST TO GRADE	10	EA
823.3355	2" GATE VALVE WITH BOX	5	EA
824.30	FIRE HYDRANT	5	EA
825.32	2 INCH CORPORATION	5	EA
825.321	1 INCH CORPORATION	59	EA
825.3212	1 1/2 INCH CORPORATION	1	EA
825.331	1" CURB STOP WITH BOX	59	EA
825.3312	1 1/2 INCH CURB STOP WITH BOX	1	EA
825.422	2" PLASTIC SERVICE - HDPE	145	LF
825.43	1" COPPER SERVICE	1480	LF
825.4311	1 1/2 " COPPER SERVICE	20	LF
825.541	TEMPORARY WATER MAIN	1	LS
827.301	ROCK EXCAVATION WATER MAIN	20	CY
827.302	UNSUITABLE SOIL EXCAVATION - BELOW GRADE	100	CY
827.33	TRENCH INSULATION	200	LF

SUMMARY OF EARTHWORK AND BORROW

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS - MAINLINE)	10,720 CY	
COMMON EXCAVATION (FROM CROSS SECTIONS - SIDE ROAD)	1,892 CY	
COMMON EXCAVATION FOR TEMPORARY PARKING	64 CY	
TOTAL COMMON EXCAVATION		12,675 CY

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	197 CY	
COMMON FILL (SIDE ROADS)	37 CY	
COMMON FILL FOR TEMPORARY PARKING	76 CY	
TOTAL FILL		310 CY

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION	0 CY	
TOTAL ROCK EXCAVATION		0 CY

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS 12,675 CY

(1) TOTAL COMMON EXCAVATION

DEDUCTIONS:

PAVEMENT IN SECTIONS	2,623 CY	
GRUBBING IN CUT	250 CY	
(2) TOTAL DEDUCTIONS		2,873 CY
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		9,802 CY
TOTAL AVAILABLE STRUCT. EXC. (USUALLY UNDERDRAIN ONLY)		1,100 CY
TOTAL AVAILABLE NON-ROCK EXCAVATION		10,902 CY

COMPUTATION OF COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL			311 CY
TOTAL AVAILABLE NON-ROCK EXCAV.	10,902	X 0.90 =	9,812 CY
TOTAL AVAILABLE ROCK EXCAV.	0	X 1.30 =	0 CY
(4) TOTAL AVAILABLE EXCAVATION			9,812 CY
BORROW NEEDED (3) MINUS (4)			-9,501 CY
TOTAL SURPLUS WASTE MATERIAL	12,374 CY		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
WATER STREET

ESTIMATED QUANTITIES

SHEET NUMBER
5
OF 172

STATION	CULVERT PIPE											CATCH BASIN					PIPE ARCH				MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III														TYPE B							
								SMOOTHLINED		CORRUGATED										GAGE OR WALL THICKNESS		TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C		E	F	SPAN	RISE	LENGTH			LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
STA. 11+35.7, 18.6' LT. TO STA. 11+45.2, 18.9' LT.								24"	8'																				
STA. 11+48.3, 21.4' LT. TO STA. 100+33.4, 21.5' LT.								24"	12'																				
STA 11+86.9, 3.1' RT. TO STA STA 100+34.1, 18.6' RT.	42"	39'	CL III																										
STA 11+86.1, 11.1' RT. TO STA 11+85.1, 20.0' RT.	42"	9'	CL III																										
STA 11+86.4, 27.7' RT TO STA 11+91.3, 42.6' RT.				54"	16'																							MATCH PRE-BUILT STUB PIPE	
STA. 11+89.5, 4.4' RT. TO STA. 12+13.8, 20.3' LT.	12"	37'	CL III																										
STA. 12+77.13, 9.0' RT. TO STA. 12+77.13, 19.71' RT.								12"	11'																			12" X 18" X 18" TEE	
STA. 13+50.00, 19.71' LT. TO STA. 13+50.0, 5.0' RT.	12"	25'	CL III																										
STA. 14+42.9, 9.0' RT. TO STA. 14+42.9, 19.71' RT.								12"	11'																			12" X 15" X 15" TEE	
STA 200+34.10, 9.7' LT. TO STA. 15+00.0, 5.0' RT.	15"	39'	CL III																										
STA. 15+62.1, 19.7' LT. TO STA. 15+62.0, 5.0' RT.								12"	25'																			12" X 12" X 12" TEE.	
STA. 16+91.4, 24.0' LT. TO STA. 16+90.7, 31.5' LT.								12"	8'																				
STA. 16+91.6, 19.7' LT TO STA. 16+92.8, 5.0' RT.								12"	25'																				
STA. 17+52.0, 20.2' RT. TO STA. 17+57.3, 8.8' RT.	12"	13'	CL III																										
STA. 17+58.1, 5.0' RT. TO STA. 17+57.8, 18.8' LT.	12"	24'	CL III					12"	24'																				
STA 18+14.8, 4.0' RT TO STA 300+41.2, 15.3' RT.	30"	45'	CL III																										
STA. 19+00.0, 9.0' RT. TO STA. 19+00.0, 20.71' RT.								12"	12'																			12"X30"X30" TEE	
STA. X X LT. TO STA. 20+06.9, 24.1' LT.								15"	12'																				
STA. 20+08.3, 20.7' LT TO STA. 20+08.3, 5.0' RT.								15"	26'																			15"X30"X30" TEE	
STA 20+08.26, 9.0' RT. TO STA 20+08.26, 20.8' RT.								12"	13'																			12"X30"X30" TEE	
STA 400+34.9, 18.6' LT. TO STA 20+34.5, 3.0' RT.	36"	39'	CL III																										
STA 20+37.4, 10.0' RT. TO STA 20+54.4, 28.6' RT.	36"	26'	CL III																										
STA 20+94.4, 5.0' RT. TO STA 20+94.4, 20.7' LT.								12"	28'																			12"X12"X12"X12" TEE	
STA 20+94.4, 9.0' RT. TO STA. 20+94.9, 21.0' RT.								12"	12'																				
STA 21+78.6, 36.7' LT. TO STA 21+93.1, 23.6' LT.								12"	20'																				
STA 21+95.6, 20.8' LT TO STA 22+10.4, 5.3' RT.	12"	30'	CL III																										
STA 22+12.8, 8.4' RT. TO STA 22+25.1, 22.2' RT.	12"	19'	CL III																										
STA 22+92.3, 20.7' LT. TO STA. 20+92.3, 5.0' RT.								12"	26'																			12" X 12" X 12" TEE.	
STA 22+93.6, 24.6' LT. TO STA 22+97.0, 36.1' LT.								12"	12'																				
STA 24+76.5, 25.6' RT. TO STA 24+98.0, 25.0' RT.	15"	22'	CL III					15"	22'																				
STA 700+35.8, 24.9' LT. TO STA. 24+00.0, 5.0' RT.	12"	45'	CL III																										
STA. 25+00.0, 22.2' LT. TO STA. 25+00.0, 23.0' RT.	12"	46'	CL III																										
STA. 25+02.0, 25.0' RT. TO STA 25+77.5, 22.0' RT.	12"	76'	CL III																										
STA. 28+68.7, 20.7' LT. TO STA. 28+68.7, 32.7' LT.								12"	12'																				
STA. 100+38.2, 21.3' LT. TO STA. 100+57.9, 25.0'± LT.								24"	20'																				
STA. 100+35.8, 18.3' LT. TO STA. 100+37.9, 15.0' RT.								24"	34'																				
STA 100+40.1, 22.5' RT. TO STA 100+43.0, 25.3' RT.								24"	4'																				
STA 100+41.9, 17.9' RT. TO STA 101+51.1, 12.9' RT.								36"	110'																				
STA. 101+56.1, 12.9' RT. TO STA 102+82.2, 13.8' RT.								36"	127'																				
STA 102+87.2, 12.0' RT. TO STA 901+44.4, 26.1' LT.								36"	80'																				
STA. 200+36.8, 11.5' LT. TO STA. 200+50±, 20.5'								12"	16'																				
STA. 200+38.0, 10.0' LT. TO STA. 200+57±, 17.0' LT.								12"	20'																				
STA 200+37.9, 8.7' LT. TO STA 200+68.6, 8.4' RT.								12"	36'																				
STA. 200+71.8, 10.8' RT. TO STA. 200+77.7, 16.2' RT.								12"	8'																				
STA. 300+51.1, 13.1' LT. TO STA. 300+44.4, 12.6' RT.								15"	27'																				
STA 301+74.3, 12.34' RT. TO STA 301+80.0, 7.2± RT.								12"	8'																				
STA 400+37.9, 15.8' LT. TO STA 400+39.7, 14.9' RT.								12"	31'																				
STA. 700+40.2, 24.2' LT. TO STA. X X X								12"	8'																				
STA 902+13.3, 21.1' RT. TO STA 902+65.5, 13.5' LT.								18"	65'																				
STA. 902+94.8, 19.8' LT. TO STA. 902+92.7, 31.7' LT.								18"	18'																				
STA. 907+71.9, 16.8' RT. TO STA. 908+11.5, 13.5' RT.								24"	40'																				
STA. 908+15.5, 13.5' RT. TO STA. 908+34.9, 13.' RT.								12"	20'																				
STA. 909+16.0, 15.6' LT. TO STA. 909+13.5, 14.2' RT.								12"	30'																				
STA. 1000+26.5, 13.8' RT. TO STA. 1000+33.7, 14.7' LT.								12"	32'																				
STA. 1000+30.0, 16.9' RT. TO STA. 1000+97.5, 11.8' RT.								36"	68'																				
STA. 1001+00.0, 8.6' RT. TO STA. 1001+04.8, 12.4' LT.								15"	24'																				
STA. 1001+02.5, 11.1' RT. TO STA. 1001+44.5, 11.5' RT.	36"	43'	CL V																										
STA. 1001+07.2, 14.2' LT. TO STA. 1001+11.2, 13.9' LT.								15"	4'																				
STA. 1001+49.5, 11.5' RT. TO STA. 1004+49.5, 11.6' RT.								36"	300'																				
STA. 1004+54.5, 11.6' RT. TO STA. 1005+54.3, 10.6' RT.	36"	100'	CL IV																										
STA. 2000+07.6, 28.2' LT. TO STA. 2000+11.0, 25.9' LT.								12"	4'																				
STA. 2000+06.2, 25.1' LT. TO STA. 2000+10.6, 25.0' LT.								18"	4'																				
STA. 2000+12.3, 30.8' LT. TO STA. 2000+12.6, 26.8' LT.								24"	4'																				
STA. 2000+12.6, 22.8' LT. TO STA. 2000+11.4, 6.1' RT.								24"	30'																				
STA. 2000+15.1, 10.1' RT. TO STA. 2001+17.3, 8.3' RT.	36"	103'	CL IV																										
STA. 2001+22.0, 6.0' RT. TO STA. 2001+34.0, 12.7' LT.								36"	23'																				
STA. 2001+36.6, 18.0' LT. TO STA. 2001+39.7, 24.3' LT.								30"	8'																				
STA. 2001+37.3, 15.6' LT. TO STA. 2001+85.7, 13.9' LT.								12"	51'																				
STA. 2001+90.6, 12.8' LT. TO STA. 2001+93.7, 5.4' LT.								12"	8'																				
STA. 2001+91.7, 14.7' LT. TO STA. 2001+94.6, 14.3' LT.								12"	3'																				

NOTE: ALL PIPES SHALL BE SMOOTHLINED UNLESS OTHERWISE NOTED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

DRAINAGE SHEET

SHEET NUMBER
6
OF 172

Filename: ...\006_Drainage_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

	STATION	CULVERT PIPE												CATCH BASIN								MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
		RCP			CMP		OPTION I		OPTION III														TYPE B		TYPE C					
									SMOOTHLINED		CORRUGATED												TYPE B	OUTLET	SMOOTHLINED		CORRUGATED			
		SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C	A1	B1	A5-C	B5-C	B5	F			LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH	DESCRIPTIONS	
1	STA. 11+25.00, 20.88' RT.																	1												2' CONE
2	STA. 11+46.11, 18.58' LT.																	1 -3/8												3' CONE, EXTRA DEPTH 60" DIA
3	STA. 100+35.80, 22.50' LT.																	1 -2/8												EXTRA DEPTH, FLAT TOP, 60" DIA.
4	STA 11+89.54, 7.0' RT.															1-6/8														OFFSET TOP, EXTRA DEPTH, SOLID COVER 96" DIA
5	STA. 11+85.00, 20.88' RT.													1-6/8																FLAT/OFFSET TOP EXTRA DEPTH, 96" DIA
6	STA. 100+35.98, 16.83' RT.												1-4/8																	FLAT OFFSET TOP, EXTRA DEPTH, 96" DIA
7	STA. 12+15.18, 20.88' LT.																1-1/8													EXTRA DEPTH, 2' CONE
8	STA. 12+77.13, 20.88' RT.																1													2' CONE
9	STA. 13+50.00, 20.88' LT.																1													2' CONE
10	STA 13+50.0, 7.0' RT.															1-4/8														2' CONE, EXTRA DEPTH, SOLID COVER
11	STA. 14+42.88, 20.88' RT.																1													2' CONE
12	STA 15+00.0, 7.0' RT.															1-2/8														2' CONE, SOLID TOP, EXTRA DEPTH
13	STA. 200+35.86, 8.52' LT.																1-1/8													EXTRA DEPTH, 2' CONE
14	STA. 200+70.23, 8.15' RT.																	1												2' CONE
15	STA. 15+62.00, 20.88' LT.																1													2' CONE
16	STA. 16+91.58, 20.88' LT.																1													2' CONE
17	STA. 17+51.54, 21.29' RT.																1													2' CONE
18	STA. 17+57.84, 7.0' RT.															1														2' CONE, SOLID TOP
19	STA. 17+57.84, 19.88' LT.																1													2' CONE
20	STA. 300+50.00, 16.00' LT.																		1-2/8											FLAT OFFSET TOP, SOLID COVER, EXTRA DEPTH
21	STA. 300+43.68, 13.77' RT.												1-1/8																	EXTRA DEPTH, OFFSET TOP, 60" DIA.
22	STA. 18+15.40, 7.0' RT.															1														2' CONE, OFFSET TOP, SOLID COVER, SUMPLESS, 72" DIA.
23	STA. 19+00.0, 21.88' RT.																1													DEPEND ON TEST PIT, 2' CONE
24	STA. 20+08.26, 21.88' LT																1-1/8													2' CONE, EXTRA DEPTH
25	STA. 20+08.26, 21.88' RT.																1-2/8													2' CONE, EXTRA DEPTH
26	STA. 20+37.58, 7.0' RT.															1-3/8														OFFSET FLAT TOP, SOLID COVER, 96" DIA., EXTRA DEPTH
27	STA 400+37.93, 16.88' LT.												1-1/8																	FLAT/OFFSET TOP 72" DIA.
28	STA. 400+39.80, 16.88' RT.													1																2' CONE
29	STA. 20+94.41, 21.88' LT.																1													2' CONE
30	STA. 20+94.87, 22.17' RT.																1													2' CONE
31	STA. 21+77.90, 37.30' LT.																			1										F4-C
32	STA. 21+95.00, 21.88' LT.																	1												2' CONE
33	STA 22+11.42, 7.0' RT.															1-2/8														2' CONE, SOLID TOP, EXTRA DEPTH
34	STA. 22+26.37, 22.88' RT.																1													2' CONE
35	STA. 22+92.33, 22.88' LT.																1													2' CONE
36	STA. 24+00.00, 7.0' RT.															1-2/8														2' CONE, EXTRA DEPTH, SOLID TOP
37	STA. 700+37.74, 24.18' LT.																1-2/8													EXTRA DEPTH, 2' CONE
38	STA. 24+78.05, 21.48' LT.																			1										F5-C
39	STA. 25+00.00, 21.48' LT.																1													2' CONE
																														2' CONE
40	STA. 25+00.0, 25.0' RT.															1														2' CONE, SOLID TOP
41	STA. 25+79.45, 21.20' RT.																1													2' CONE
42	STA. 26+32.23, 20.20' LT.																1													2' CONE
43	STA. 27+50.00, 18.06' LT.																1													2' CONE
44	STA. 28+68.70, 17.88' LT.																1													2' CONE
45	STA. 101+51.88, 13.00' RT.												1-1/8																	FLAT OFFSET TOP 60" DIA
46	STA. 102+83.00, 14.50' RT.													1-3/8																FLAT OFFSET TOP, EXTRA DEPTH, 72" DIA.
47	STA. 902+67.20, 13.78' LT.													1-1/8																EXTRA DEPTH, 2' CONE
48	STA. 902+93.70, 18.00' LT.																	1												2' CONE, SOLID COVER
49	STA. 903+68.10, 14.95' LT.													1																FLAT OFFSET TOP
50	STA. 1000+28.82, 15.57' RT.												1-2/8																	FLAT/OFFSET TOP 72" DIA
51	STA. 1000+34.20, 16.60' LT.																			1										TYPE F4-C
52	STA. 1001+00.00, 9.88' RT.													1-1/8																FLAT/OFFSET TOP, 60" DIA.
53	STA. 1001+05.22, 14.32' LT.													1																FLAT TOP
54	STA. 1001+47.00, 9.88' RT.													1-1/8																FLAT/OFFSET TOP 60" DIA.
55	STA. 1004+52.00, 10.06' RT.													1-1/8																FLAT/OFFSET TOP 60" DIA
56	STA. 1005+59.00, 13.50' RT.																													FLAT/OFFSET TOP, SOLID COVER, 96" DIA., SUMPLESS
57	STA. 2000+12.6, 25.1' LT.													1-4/8																FLAT TOP, EXTRA DEPTH
58	STA. 2001+20.30, 10.88' RT.													1																FLAT/OFFSET TOP, SUMPLESS 72" DIA
59	STA. 2001+37.80, 17.80' LT.													1-2/8																OFFSET TOP, EXTRA DEPTH, SOLID COVER 60" DIA
60	STA. 2001+89.70, 14.60' LT.													1																FLAT TOP
61	STA. 3011+72.30, 12.70' RT.													1																FLAT/OFFSET TOP
62	STA. 908+13.50, 15.50' RT.															1-4/8														2' CONE, SOLID COVER, EXTRA DEPTH, 60" DIA.
63	STA. 908+36.90, 13.00' RT.												1-3/8																	2' CONE, EXTRA DEPTH
64	STA. 909+13.60, 16.24' RT.												1-2/8																	2' CONE, EXTRA DEPTH
65	STA. 909+16.00, 16.80' LT.																1-2/8													2' CONE, EXTRA DEPTH

NOTE: ALL PIPES SHALL BE SMOOTHLINED UNLESS OTHERWISE NOTED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON · No. 7960 · REGISTERED PROFESSIONAL ENGINEER

	SIGNATURE	P.E. NUMBER
	7960	
	1/12/18	
	DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

DRAINAGE SHEET

SHEET NUMBER

7

OF 172

Filename: ...\007_Drainage_02.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATION	CULVERT PIPE											CATCH BASIN								MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III SMOOTHLINED		OPTION III CORRUGATED											TYPE B		TYPE C SMOOTHLINED		TYPE C CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C	A1	B1	A5-C	B5-C	B5	F		TYPE B LENGTH	OUTLET	SIZE	LENGTH	SIZE	LENGTH		
STA. 11+27.0, 21.7' RT. TO STA. 11+81.0, 23.7' RT.																							12"	54'				
STA. 11+50.0, 7.0' RT. TO STA. 11+82.5, 7.0' RT.																					33'							
STA. 11+90.50, 7.0' RT. TO STA. 13+48.00, 7.0' RT																							18"	158'				
STA. 13+52.00, 7.0' RT. TO STA. 14+98.00, 7.0' RT.																							15"	146'				
STA. 15+02.0, 7.0' RT. TO STA. 16+00.0, 7.0' RT.																							12"	98'				
STA. 16+00.0, 7.0' RT. TO STA. 17+55.8, 7.0' RT.																							12"	157'				
STA. 17+59.84, 7.0' RT. TO STA. 18+11.8, 7.0' RT.																							15"	52'				
STA 18+17.8, 7.0' RT. TO STA 20+30.7, 7.0' RT.																							30"	214'				
STA 20+38.7, 7.0' RT. TO STA 22+09.4, 7.0' RT.																							15"	171'				
STA. 22+13.4, 7.0' RT. TO STA. 23+98.0, 7.0' RT.																							12"	185'				
STA. 24+80.1, 20.7' LT. TO STA. 24+98.0, 22.3' LT.																							12"	18'				
STA. 25+02.0, 22.3' LT. TO STA. 26+30.2, 21.0' LT.																							12"	129'				
STA. 25+81.5, 22.0' RT. TO STA. 29+25.0, 19.8' RT.																					344'							
STA. 26+34.2, 21.0' LT. TO STA. 27+48.0, 18.9' LT.																							12"	114'				
STA. 27+52.00, 18.9' LT. TO STA. 28+66.7, 18.7' LT.																							12"	117'				
STA. 28+70.7, 20.7' LT. TO STA. 29+75.0, 17.9' LT.																					105'							
STA. 300+46.7, 15.4' RT. TO STA. 301+68.8, 14.6' RT.																							24"	123'				
STA. 301+74.7, 14.8' RT. TO STA. 303+04.8, 14.4' RT.																							24"	130'				
STA. 400+40.9, 18.5' LT. TO STA. 401+00.0, 17.1' LT.																							36"	60'				
STA. 902+69.2, 13.8' LT. TO STA. 902+97.7, 18.8' LT.																							18"	22'				
STA. 902+95.7, 18.8' LT. TO STA. 903+66.1, 15.8' LT.																							12"	72'				
STA. 908+38.9, 13.0' RT. TO STA. 909+11.5, 17.0' RT.																							12"	74'				
STA. 12+47 LT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 15+31.5 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 16+12 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 16+84 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 17+51 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 18+43 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 18+70 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 18+91 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 18+92 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 19+11 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 19+39 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 19+78 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 20+01 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 20+89 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 21+20 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 21+37 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 21+77 LT.																											6" PVC AND FITTINGS	FUTURE ROOF DRAIN
STA. 21+78 LT.																											6" PVC AND FITTINGS	CELLAR/ROOF DRAIN
STA. 21+85 RT.																											6" PVC AND FITTINGS	FUTURE ROOF DRAIN
STA. 21+95 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 22+20 RT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. 22+42 LT.																											6" PVC AND FITTINGS	CELLAR/ROOF DRAIN
STA. 22+92.5 LT.																											6" PVC AND FITTINGS	ROOF DRAIN
STA. .23+34 LT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 26+32 LT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 28+15 LT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 29+45 LT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 301+83 RT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 903+68 LT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 1002+05 RT.																											6" PVC AND FITTINGS	CELLAR DRAIN
STA. 12+17, 21.0' LT. TO STA. 12+47, 25.5' LT.																					30'							
STA.15+31.5, 24.5' LT. TO STA. 16+12, 26' LT.																					80'							
STA.16+84, 26.5' LT. TO STA. 16+90, 22.7' LT.																					6'							
STA. 17+51, 28.5' RT. TO STA. 17+51.5, 24.1' RT.																					4'							
STA. 17+53, 23.2' RT. TO STA. 17+68, 33.0' RT.																					19'							SURFACE DRAIN OUTLET
STA. 18+43, 28.0' RT. TO STA. 19+11.5, 28.0' RT.																					70'							
STA. 18+92, 27.5' LT. TO STA. 20+06, 22.5' LT.																					112'							
STA. 19+78, 29.0' RT. TOSTA. 20+06, 24.3' RT.																					30'							
STA. 20+89, 31.0' RT. TO STA. 21+37, 31.0' RT.																					55'							
STA. 21+20, 29.0' LT. TO STA. 20+96, 23.0' LT.																					18'							
STA. 21+77, 31.0' LT. TO STA. 20+93, 23.0' LT.																					18'							
STA. 21+78, 41.0' LT. TO STA. 21+77, 39.0' LT.																					2'							
STA. 21+85, 31.0' RT. TO STA. 22+20, 31.0' RT.																					33'							
STA. 22+20, 31.0' RT. TO STA. 22+25, 25.0' RT.																					7'							
STA. 22+43, 29.8' LT. TO STA. 21+95, 24.6' LT.																					47'							
STA. 22+92.5, 27.5' LT. TO STA. 22+92.5, 24.8' LT.																					3'							
STA. 23+34, 27.5' LT. TO STA. 22+94.3, 22.9' LT.																					43'							
STA. 26+32, 25.0' LT. TO STA. 26+32, 23.0' LT.																					2'							
STA. 28+15, 18.0' LT. TO STA. 28+15, 27.5' LT.																					9'							
STA. 29+45, 17.5' LT. TO STA. 29+45, 26.9' LT.																					10'							
STA. 301+83, 18.5' RT. TO STA. 301+74, 16.7' RT.																					9'							
STA. 903+68, 17.8' LT. TO STA.903+69, 19.4' LT.																					2'							
STA. 1002+05, 19.5' RT. TO STA. 1002+05, 12.3' RT.																					8'							

NOTE: ALL PIPES SHALL BE SMOOTHLINED UNLESS OTHERWISE NOTED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON · No. 7960 · PROFESSIONAL ENGINEER

SIGNATURE
7960

P.E. NUMBER

1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

DRAINAGE SHEET

SHEET NUMBER
8

Filename: ...\008_Drainage_03.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\009_Notes_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:

CENTRAL MAINE POWER
FAIRPOINT COMMUNICATIONS NORTHERN NEW ENGLAND OPERATIONS LLC
FIRSTLIGHT
TIME WARNER CABLE
CITY OF HALLOWELL
GREATER AUGUSTA UTILITY DISTRICT
SUMMIT NATURAL GAS
HALLOWELL WATER DISTRICT

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.

3. CONSTRUCT BUTTED JOINTS AT ALL PAVED DRIVES AND ENTRANCES.

4. 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.

5. TEMPORARY RAMPS SHALL BE CONSTRUCTED WITH ONE FOOT OF LENGTH FOR EVERY 1/4" OF TRANSITION DEPTH ON THE LEADING AND THE TRAILING END. MATERIALS, PLACEMENT, MAINTENANCE, AND REMOVAL SHALL BE INCIDENTAL TO CONTRACT ITEMS.

6. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

7. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT. ESTIMATED GRUBBING DEPTHS ARE 6 INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS.

8. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.

9. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.

10. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.

11. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

12. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL.

13. COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 3" HOT MIX ASPHALT AND 11" AGGREGATE SUBBASE COURSE GRAVEL.

14. 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 THE RESIDENT.

15. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.

16. WHEN SUPER ELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE SHOULDER PAVEMENT WILL HAVE SAME SLOPE AS TRAVELED WAY.

17. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

18. GRANULAR BORROW USED UNDER PIPES SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL.

19. EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.

20. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

21. ALL CULVERTS SHALL BE SMOOTHLINED.

22. PLASTIC END CAPS SHALL BE USED ON ALL DEAD-END 6-INCH TYPE B UNDERDRAIN AND SHALL BE CONSIDERED INCIDENTAL.

23. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 604.

24. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO ALLOW FOR PROPOSED PIPE CONNECTIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 603 OR 605.

25. ALL CONNECTIONS FOR UNDERDRAIN TO ROADWAY CULVERTS WILL BE INCIDENTAL TO UNDERDRAIN PIPE ITEMS.

26. EXISTING ABANDONED WATER MAINS BROKEN BY THE CONTRACTOR DURING CONSTRUCTION SHALL HAVE THE ENDS PLUGGED WITH BRICK AND MORTAR. COST FOR ALL LABOR AND MATERIAL WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO DIRECT PAYMENT WILL BE MADE.

27. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

28. HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

29. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END. PAYMENT WILL BE INCIDENTAL TO ITEM 606.365.

30. ALL CATCH BASINS TYPE A PLACED ON CIRCULAR CURB TYPE I SHALL HAVE THE CURB INLET CUT THE SAME RADIUS AS ADJACENT CIRCULAR CURB. PAYMENT SHALL BE INCIDENTAL TO ITEM 604.

31. IN AREAS WHERE CURB TYPE I WILL BE RESET, THE EXISTING CURB SUITABLE FOR USE AS TERMINAL ENDS SHALL BE CUT IF NECESSARY AND UTILIZED AS SUCH AND PAID FOR UNDER ITEM 609.38 (RESET CURB TYPE I). REQUIRED CUTTING WILL BE PAID UNDER FORCE ACCOUNT PROCEDURES.

32. 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.

33. UNLESS OTHERWISE NOTED SEEDING METHOD NO. I SHALL BE UTILIZED ON ALL AREAS.

34. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN ALL AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

35. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT. BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF ITEM 627.76.

36. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS.

37. 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.

38. THE PROJECT GEOTECHNICAL REPORT TITLED GEOTECHNICAL DATA REPORT FOR THE RECONSTRUCTION OF STATE ROUTE 201 HALLOWELL, MAINE, SOILS REPORT 2017-44, DECEMBER 8, 2017 CAN BE ACCESSED AT THE MAINEDOT WEBSITE.

39. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE CONSTRUCTION SITE. MAINEDOT SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S OR CONTRACTOR'S INTERPRETATIONS OF OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS CONTAINED IN THE PLAN SET PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.

40. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.

41. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.

42. BACKSLOPING OF TRENCHES REQUIRED TO INSTALL DRAINAGE PIPES SHALL NOT BE ALLOWED.

43. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

44. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

45. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING PLAN IN THE CONTRACT DOCUMENTS. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

46. THE CONTRACTOR WILL PLACE APPROPRIATELY MARKED STAKES AT THE FOLLOWING LOCATIONS ON THE PROJECT: STRIPING PATTERN CHANGES, CROSS-SLOPE CHANGES, AND EVERY 500' 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.

47. DEMOUNTING AND REINSTALLING WOOD AND U-CHANNEL POSTS FOR RELOCATION OF REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNAGE WILL BE CONSIDERED INCIDENTAL TO PAYMENT UNDER ITEM 645.116. POSTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR WITH NEW POSTS CONFORMING TO THE APPLICABLE SPECIFICATIONS AT NO ADDITIONAL COST TO THE CONTRACT.

48. REMOVAL OF REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNAGE AND POSTS THAT ARE NOTED TO BE REMOVED BUT NOT TO BE REINSTALLED WILL BE CONSIDERED INCIDENTAL TO THE OTHER SECTION 645 PAY ITEMS OF THE CONTRACT.

49. DEMOUNTING AND REINSTALLING WOOD POSTS FOR SIGNS WILL BE CONSIDERED INCIDENTAL TO PAYMENT UNDER ITEM 645.116. POSTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR WITH NEW POSTS CONFORMING TO THE APPLICABLE SPECIFICATIONS AT NO ADDITIONAL COST TO THE CONTRACT.

50. THE INSPECTION STANDPIPE FOR CELLAR AND ROOFDRAIN CONNECTIONS, END CAPS, CONCRETE, REBAR, STANDPIPE FITTNGS, AND CONNECTION OF THE STANDPIPE TO THE EXISTING CELLAR AND ROOF DRAINS AND NEW OUTLET PIPE WILL BE INCIDENTAL TO ITEM 801.16.

51. PROPOSED CELLAR DRAIN CONNECTIONS SHALL BE CAPPED UNLESS THE RESIDENT HAS DETERMINED THAT THE CONNECTION PERMIT HAS BEEN OBTAINED BY THE CONNECTING PROPERTY OWNER.

52. A MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) ENVIRONMENTAL OFFICE INVESTIGATION SPECIFIC TO THIS PROJECT ENCOUNTERED DATA SUGGESTING PETROLEUM RELATED CONTAMINATION MAY BE PRESENT WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL EMPLOY APPROPRIATE HEALTH AND SAFETY MEASURES TO PROTECT ITS WORKERS AGAINST HAZARDS ASSOCIATED WITH WORKING NEAR PETROLEUM-IMPACTED SOILS. FURTHERMORE, THE CONTRACTOR SHALL REMAIN ALERT FOR ANY ADDITIONAL EVIDENCE OF CONTAMINATION. IF THE CONTRACTOR ENCOUNTERS EVIDENCE OF SOIL OR GROUNDWATER CONTAMINATION, THE CONTRACTOR SHALL SECURE THE EXCAVATION, STOP WORK IN THE CONTAMINATED AREA, AND IMMEDIATELY NOTIFY THE RESIDENT. THE RESIDENT SHALL CONTACT THE HYDROGEOLOGIST IN MAINEDOT'S ENVIRONMENTAL OFFICE AT 207-624-3100 AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AT 800-482-0777. WORK MAY ONLY CONTINUE WITH AUTHORIZATION FROM THE RESIDENT.

53. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE RESIDENT PRIOR TO IMPLEMENTING ANY 24 HOUR CONSTRUCTION OPERATION.

54. THE CONTRACTOR IS TO MAKE THE ENTIRETY OF WATER STREET AVAILABLE TO THE CITY OF HALLOWELL FOR THE WEEKEND OF OLD HALLOWELL DAYS; HOWEVER, THE ONE-WAY DETOURED TRAFFIC FLOW WILL BE MAINTAINED. PRIOR TO TRANSITIONING TRAFFIC TO THE WEST SIDE OF WATER STREET, ALL WORK ON THE EAST SIDE OF WATER STREET SHALL BE COMPLETE EXCLUDING FINAL SURFACE PAVEMENT, STRIPING, AND THE PROPOSED GRANITE CROSSWALKS.

55. ESTIMATED TEMPORARY PAVEMENT INCLUDED IN THE CONTRACT IS INTENDED TO ADDRESS TEMPORARY PAVEMENT NECESSARY TO OPEN WATER STREET TO USE FOR OLD HALLOWELL DAYS, TEMPORARY CROSSWALKS, AND TEMPORARY RAMPS.

56. THE HALLOWELL SAND PIT ON WATER STREET ACROSS FROM THE GREENVILLE STREET INTERSECTION MAY NOT BE USED FOR CONTRACTOR LAYDOWN OR DISPOSAL PURPOSES.

57. THE CONTRACTOR SHALL COORDINATE HANDLING AND DELIVERY OF EXISTING BRICK AND GRANITE CURB NOT USED IN THE RECYCLED GRANITE CURB RETAINING WALL WITH THE HALLOWELL PUBLIC WORKS DEPARTMENT.

58. ROOF DRAIN CONNECTIONS IN THIS CONTRACT WILL BE CONSIDERED THE SAME AS CELLAR DRAIN CONNECTIONS AND BE PAID AS ITEM 801.16.

59. INSPECTION STANDPIPE COVERS FOR CELLAR AND ROOF DRAIN CONNECTIONS SHALL BE NICKEL BRONZE, THREADED, FLORR CLEANOUT COVERS SIZED TO FIT THE INSPECTION STANDPIPES. COVERS SHALL BE MANUFACTURED BY ZURN INDUSTRIES OR AN APPROVED EQUAL. PAYMENT FOR COVERS WILL BE INCIDENTAL TO ITEM 801.16.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG	ALG	1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

GENERAL NOTES

SHEET NUMBER
9
OF 172

ITEM 525.31 - GRANITE SLAB CROSSWALK	
LOCATION	AREA
STA. 15+30 LT. & RT.	280 SF
STA. 23+92 TO STA. 24+66 LT.	435 SF
STA. 24+65 LT. & RT.	322 SF

ITEM 507.0841 - STEEL PIPE HANDRAIL	
LOCATION	LENGTH (LF)
STA. 15+21 RT. TO STA. 16+05 RT.	84.0
STA. 27+75 RT.	22.0

ITEM 606.36 - GUARDRAIL REMOVED AND RESET	
LOCATION	LENGTH (LF)
STA. 2000+27.2, 21.7' RT. TO STA. 2001+34.5, 14.8' RT.	110

ITEM 607.22 - CEDAR RAIL FENCE	
LOCATION	LENGTH (LF)
STA. 26+89.0, 48.0' RT. TO STA. 27+68.5, 32.5' RT.	80.0
STA. 27+81.0, 32.0' RT. TO STA. 29+11.0, 27.0' RT.	125.0
STA. 28+75.0, 43.5' RT. TO STA. 29+25.0, 54.5' RT.	48.0
STA. 30+22.0, 55.0' RT. TO STA. 30+75.0, 45.0' RT.	50.0

ITEM 607.24 - REMOVE AND RESET FENCE	
LOCATION	LENGTH (LF)
STA. 11+02.0, 28.1' RT. TO STA. 12+22.0, 28.4' RT.	120.0
STA. 17+63.0, 33.0' RT. TO STA. 18+03.0, 32.0' RT.	40.0

DETECTABLE WARNING FIELD (ITEM 608.26)		
STATION	SIDE	AREA (SF)
11+46	LT	12
11+98	LT	12
15+00.5	LT	12
15+28	LT	18
15+32	RT	12
17+70	RT	12
17+75	LT	26
18+19	LT	16
20+39.5	RT	32
20+27	LT	16
20+77	LT	16
20+80	RT	16
21+74	LT	12
21+92	LT	12
23+99.5	LT	10
24+60	LT	28
24+61	RT	12
24+92	RT	26
25+63.5	RT	20
29+09	LT	12
29+11	RT	12
901+51	LT	20
902+13	LT	12
902+13	RT	12
908+18	RT	12
914+49	LT	12
1005+35	RT	12

ITEM 609.11 VERTICAL CURB TYPE 1						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)
12+75.1	22.0	RT	13+30.9	22.0	RT	51.8
13+14.7	28.0	RT	13+30.9	28.0	RT	16.1
13+66.9	28.0	RT	14+03.9	28.0	rt	37.0
13+66.9	22.0	RT	14+02.9	22.0	RT	36.0
14+10.9	22.0	RT	14+32.9	22.0	RT	22.0
14+40.9	22.0	RT	15+21.2	22.0	RT	76.9
15+43.0	22.0	RT	17+59.5	22.5	RT	215.0
17+81.2	22.6	RT	20+23.3	23.0	RT	236.3
20+92.9	23.3	RT	21+88.2	23.7	RT	91.4
21+96.2	24.0	RT	22+16.4	24.0	RT	20.2
22+24.4	24.0	RT	24+06.3	24.0	RT	177.9
22+42.4	34.0	RT	22+56.6	34.0	RT	14.2
22+60.6	34.0	RT	23+03.5	34.0	RT	42.8
23+07.6	34.0	RT	23+18.1	34.0	RT	10.7
24+14.3	24.0	RT	24+34.3	24.0	RT	20.0
24+42.3	24.0	RT	24+50.0	24.0	RT	7.6
24+72.0	24.0	RT	24+77.0	24.0	RT	5.0
800+45.3	11.0	RT	800+55.0	11.0	RT	9.7
25+77.6	22.4	RT	29+00.0	20.8	RT	314.6
29+25.0	29.5	RT	29+25.0	35.0	RT	5.5
12+13.2	22.0	LT	12+85.8	22.0	LT	68.6
13+25.6	22.0	LT	14+27.6	22.0	LT	98.0
14+35.6	22.0	LT	14+57.6	22.0	LT	22.0
14+65.7	22.0	LT	14+86.7	22.0	LT	20.8
15+43.1	19.0	LT	17+59.6	21.0	LT	202.6
18+32.1	23.0	LT	19+54.8	23.0	LT	121.3
19+87.4	23.0	LT	20+10.4	23.0	LT	19.0
20+92.4	23.0	LT	21+67.0	23.0	LT	70.6
21+99.3	23.0	LT	22+94.3	23.0	LT	91.0
23+02.3	23.0	LT	23+24.3	23.0	LT	22.0
23+32.3	23.0	LT	23+91.8	23.0	LT	59.5
24+76.1	22.6	LT	25+38.6	22.3	LT	54.6
25+80.6	22.1	LT	25+85.6	22.1	LT	5.0
26+13.7	21.7	LT	26+95.9	20.2	LT	78.3
27+29.9	19.6	LT	27+60.7	19.0	LT	26.9
27+19.3	25.3	LT	27+43.2	24.8	LT	23.9
27+47.1	24.7	LT	27+74.3	24.5	LT	27.7
27+95.8	19.0	LT	28+33.5	19.0	LT	38.6
28+66.8	19.0	LT	28+78.7	19.0	LT	8.2
29+19.8	19.0	LT	29+83.1	17.6	LT	64.8
100+34.1	18.1	RT	100+65.3	16.1	RT	27.2
101+23.0	14.0	RT	101+33.0	16.1	RT	10.0
200+33.9	9.6	LT	201+00	9.9	LT	62.2
200+35.6	9.6	RT	200+66.2	9.7	RT	30.6
300+42.2	14.9	RT	300+50.0	14.9	RT	4.0
400+35.9	18.1	LT	400+74.5	18.0	LT	35.7
700+35.7	25.3	LT	700+50	25.3	LT	10.3
700+44.5	24.3	RT	700+50	24.3	RT	5.5
1000+26.9	17.1	RT	1000+81.7	12.5	RT	50.9

ITEM 609.12 VERTICAL CURB TYPE 1 - CIRCULAR							
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)	REMARK
200+31.7	9.9	LT	200+33.9	9.6	LT	2.2	R=10
800+34.5	14.2	RT	800+45.3	11.0	RT	11.4	R=20

TERMINAL CURB TYPE 1 - 4 LF ITEM 609.234					
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE
908+78.1	14.0	RT	908+82.1	14.0	RT
29+25.0	25.5	RT	29+25.0	29.5	RT

TERMINAL CURB TYPE 1 - 4 LF ITEM 609.2341 - CIRCULAR						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	REMARK
200+28.1	11.5	LT	200+31.7	9.9	LT	R=10'
800+31.4	16.7	RT	800+34.5	14.2	RT	R=20'
908+20.7	15.4	RT	908+24.5	14.1	RT	R=12.5'

TERMINAL CURB TYPE 1 - 8 LF ITEM 609.238					
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE
100+65.3	16.1	RT	100+73.3	15.7	RT
101+15.0	14.0	RT	101+23.0	14.0	RT
101+53.9	14.0	RT	101+61.9	14.0	RT
101+80.3	14.0	RT	101+88.3	14.0	RT
102+08.1	14.0	RT	102+16.1	14.0	RT
102+29.7	14.0	RT	102+37.7	14.0	RT
102+72.6	14.0	RT	120+80.6	14.0	RT
12+67.1	22.0	RT	12+75.1	22.0	RT
13+30.9	22.0	RT	13+38.9	22.0	RT
13+30.9	28.0	RT	13+38.9	28.0	RT
13+58.9	22.0	RT	13+66.9	22.0	RT
13+58.9	26.8	RT	13+66.9	26.8	RT
14+02.9	22.0	RT	14+10.9	22.0	RT
14+32.9	22.0	RT	14+40.9	22.0	RT
15+21.2	22.0	RT	15+29.1	22.0	RT
15+35.0	22.0	RT	15+43.0	22.0	RT
17+59.5	22.5	RT	17+67.4	22.5	RT
17+73.3	22.6	RT	17+81.2	22.6	RT
20+23.3	23.0	RT	20+31.2	23.0	RT
20+84.9	23.2	RT	20+92.9	23.3	RT
21+62.1	23.7	RT	21+70.1	23.8	RT
21+76.1	23.8	RT	21+84.1	23.9	RT
21+88.2	23.9	RT	21+96.2	24.0	RT
22+16.4	24.0	RT	22+24.4	24.0	RT
24+06.3	24.0	RT	24+14.3	24.0	RT
24+34.3	24.0	RT	24+42.3	24.0	RT
24+50.0	24.0	RT	24+58.0	24.0	RT
24+64.0	24.0	RT	24+72.0	24.0	RT
24+77.0	24.0	RT	24+85.0	23.8	RT
25+69.6	22.5	RT	25+77.6	22.4	RT
29+00.0	20.8	RT	29+08.2	20.5	RT
29+25.0	35.0	RT	29+25.0	43.0	RT
12+05.2	22.0	LT	12+13.2	22.0	LT
12+85.8	22.0	LT	12+93.8	22.0	LT
13+17.6	22.0	LT	13+25.6	22.0	LT
14+27.6	22.0	LT	14+35.6	22.0	LT
14+57.6	22.0	LT	14+65.6	22.0	LT
14+86.7	22.0	LT	14+94.8	22.0	LT
200+27.6	9.6	RT	200+35.6	9.6	RT
200+66.2	9.8	RT	200+74.2	9.8	RT
15+35.0	19.0	LT	15+43.1	19.0	LT
17+59.6	21.0	LT	17+67.7	21.0	LT
300+34.2	14.9	RT	300+42.2	14.9	RT
18+24.0	23.0	LT	18+32.1	23.0	LT
19+54.8	23.0	LT	19+62.9	23.0	LT
19+79.4	23.0	LT	19+87.4	23.0	LT
20+10.4	23.0	LT	20+18.4	23.0	LT
400+74.5	18.0	LT	400+82.0	18.0	LT
20+84.4	23.0	LT	20+92.4	23.0	LT
21+67.0	23.0	LT	21+75.0	23.0	LT
21+91.3	23.0	LT	21+99.3	23.0	LT
22+94.3	23.0	LT	23+02.3	23.0	LT
23+24.3	23.0	LT	23+32.3	23.0	LT
700+27.7	25.3	LT	700+35.7	25.3	LT
24+68.1	22.7	LT	24+76.1	22.6	LT
25+38.6	22.3	LT	25+46.6	22.3	LT
25+72.6	22.1	LT	25+80.6	22.1	LT
25+85.6	22.1	LT	25+93.6	22.0	LT
26+05.7	21.9	LT	26+13.7	21.7	LT
26+95.9	20.2	LT	27+03.9	20.0	LT
27+21.9	19.7	LT	27+29.9	19.6	LT
27+60.7	19.0	LT	27+68.5	19.0	LT
27+88.0	19.0	LT	27+95.8	19.0	LT
28+33.5	19.0	LT	28+41.4	19.0	LT
28+58.9	19.0	LT	28+66.8	19.0	LT
28+78.7	19.0	LT	28+86.5	19.0	LT
29+12	19.0	LT	29+19.8	19.0	LT
901+56.4	14.7	LT	901+64.4	14.5	LT
1000+81.7	12.5	RT	1000+89.6	11.8	RT
301+08.7	14.9	RT	301+16.7	15.0	RT
302+85.4	14.6	RT	302+93.4	14.5	RT
909+03.6	17.5	RT	909+11.6	17.5	RT

TERMINAL CURB TYPE 1 - 8 LF ITEM 609.2381 - CIRCULAR						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	REMARK
100+26.7	21.0	RT	100+34.1	18.1	RT	R=15
400+28.5	20.8	LT	400+35.9	18.1	LT	R=15
23+91.8	23.0	LT	23+99.0	26.0	LT	R=10
700+36.8	26.4	RT	700+44.5	24.3	RT	R=15
1000+19.5	19.5	RT	1000+26.9	17.1	RT	R=15

ITEM 609.19 VERTICAL CURB TYPE 2						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)
29+26.5	41.5	RT	30+18.5	41.5	RT	60.0

USED AS 10 - 6' CURB STOPS FOR PARKING

ITEM 609.31 CURB TYPE 3, MOLD 1						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)
11+00	16.1	LT	11+47.0	20.6	LT	48.1
11+00	22.0	RT	12+37.2	40.7	RT	149.0
12+52.2	38.7	RT	12+55.5	27.5	RT	11.9
902+02.1	13.8	LT	902+10.1	13.8	LT	8.0
902+16.1	13.9	LT	902+24.1	14.1	LT	8.0
902+63.3	14.8	LT	902+81.2	15.3	LT	18.0
903+13.5	15.8	LT	903+44.0	16.0	LT	30.5
903+59.8	16.0	LT	903+74.8	16.3	LT	15.5
301+43.7	15.0	RT	302+74.2	14.7	RT	130.6
913+76±		RT	913+92±		RT	16.0
913+86±		LT	913+90±		LT	4.0
914+06±P		LT	914+09±		LT	4.0
914+51.9	15.7	LT	914+59.7	15.6	LT	8.0
914+48.7	22.3	LT	914+51.5	43.4	LT	21.2
1001+40.7	11.0	RT	1002+41.4	11.0	RT	100.7
1002+67.4	11.0	RT	1003+70.2	11.0	RT	102.9
1003+96.0	11.0	RT	1004+16.0	11.0	RT	20.0
1004+42	11.0	RT	1005+29.7	13.2	RT	87.7
2001+30.8	14.3	LT	2001+53.3	14.0	LT	22.5
2001+80	15.3	LT	2001+96.4	15.0	LT	16.4

ITEM 609.31 CURB TYPE 3, MOLD 3						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)
2000+20.4	23.0	RT	2000+84.9	13.5	RT	67.4
2000+84.9	23.0	RT	2001+25.0	12.0	RT	40.1

ITEM 609.312 SPECIAL CURB						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)
15+58	29.8	LT	16+13	30.0	LT	55.0

USED AS LOW RETAINING WALL

ITEM 609.38 RESET CURB TYPE 1						
STATION	OFFSET	SIDE	STATION	OFFSET	SIDE	LENGTH (LF)
101+33.0	14.0	RT	101+53.9	14.0	RT	20.9
101+88.3	14.0	RT	102+08.1	14.0	RT	19.8
102+37.7	14.0	RT	102+72.6	14.0	RT	34.9
300+50.0	14.9	RT	301+08.7	14.9	RT	58.7
302+74.2	14.7	RT	302+85.4	14.6	RT	11.1
908+26.4	13.9	RT	908+78.1	14.0	RT	51.7
914+51.5	43.4	LT	914+44.2	21.8	LT	25.4
914+47.0	16.1	LT	914+59.7	14.5	LT	13.0
913+75±		RT	913+93±		RT	17.0
913+85±		LT	914+09±		LT	23.0
914+42±		LT	914+60±		LT	38.0

ITEM 642.183 GRANITE STEPS	
STATION	DESCRIPTION
15+10.2 RT.	2 STEPS, 5.5' WIDE, 4" RISE, 12" TREAD
17+17.3 LT.	1 STEP, 6' WIDE, 4.5" RISE, 11" TREAD
17+26.8 LT.	1 STEP, 6' WIDE, 4.5" RISE, 11" TREAD
22+58.5 RT.	1 STEP, 4' WIDE, 6" RISE, 1" TREAD
23+05.7 RT	1 STEP, 4' WIDE, 6" RISE, 18" TREAD
27+01.6 LT.	1 STEP, 5' WIDE, 6" RISE, 11" TREAD
27+75.0 RT.	10 STEPS, 6' WIDE, 6" RISE, 12" TREAD *

* INCIDENTAL TO RECYCLED GRANITE CURB WALL

Filename: ...\010_Construction_Notes.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY DATE

HALLOWELL
WATER STREET

Construction Notes

SHEET NUMBER
10
OF 172

DRIVEWAYS AND ENTRANCES		
LOCATION	DESCRIPTION	CURB OPENING
STA. 12+44.1 RT.	15.3' PAVED COMM. P. LOT. ENTRANCE	45.3'
STA. 13+05.7 LT.	24' PAVED COMM. P. LOT ENTRANCE	24.0'
STA. 13+48.9 RT.	5.5' PAVED APRON TO COMM. GR. LOT	20.0'
STA. 19+71.0 LT.	15.8' WIDE PAVED COMM. ENTRANCE	16.0'
STA. 21+83.4 LT.	14.2' WIDE PAVED COMM. DRIVE	16.3'
STA. 25+59.6 LT.	26.0' WIDE PAVED COMM. ENTRANCE	26.0'
STA. 25+99.6 LT.	11.5 PAVED RES. DRIVE	12.0'
STA. 27+14.1 LT.	13.0' WIDE PAVED RES. DRIVE	18.0'
STA. 27+78.2 LT.	7.1 WIDE PAVED RES. DRIVE	20.0'
STA. 28+50.1 LT.	15.5' WIDE PAVED COMM. ENTRANCE	18.0'
STA. 29+03.0 LT.	16.5' WIDE PAVED COMM. ENTRANCE	20.0'
STA. 29+75.3 RT.	PAVED COMMERCIAL PARKING	114.5'
STA. 100+44.0 LT.	33.0' WIDE PAVED COMM ENTRANCE	---
STA. 100+95.3 RT.	42.0' WIDE PAVED COMM ENTRANCE	42.0'
STA. 101+71.3 RT.	18.2' WIDE PAVED RES. DRIVE	18.4'
STA. 102+22.4 RT.	12.4' WIDE PAVED RES. DRIVE	13.7'
STA. 200+88.1 RT.	20.5' WIDE PAVED COMM. ENTRANCE	25.8'
STA. 300+46.2 LT.	22.0' OF PAVED COMM. ENTRANCE.	---
STA. 301+34.8 RT.	17.9' WIDE PAVED COMM. ENTRANCE	26.9'
STA. 400+60.5 RT.	50.6' WIDE PAVED COMM. ENTRANCE	52.5'
STA. 400+92.8 LT.	16.5' WIDE PAVED COMM. ENTRANCE	21.2'
STA. 902+97.4 LT.	5.5' PAVED APRON & 28.4' WIDE GRAVEL COMM. DRIVE	32.2'
STA. 903+51.8 LT.	15.5' WIDE PAVED RES. DRIVE	15.5'
STA. 908+92.9 RT.	21.5' WIDE PAVED RES. DRIVE	21.5'
STA. 1001+00.7 RT.	20.0' WIDE PAVED COMM. ENTRANCE	21.2'
STA 1002+54.4 RT.	9.6' WIDE GRAVEL RES. DRIVE	26.0'
STA 1003+83.2 RT.	10.4' WIDE PAVED RES. DRIVE	26.0'
STA 1004+29.1 RT.	11.9' WIDE PAVED RES. DRIVE	26.0'
STA. 2001+66.6 LT.	26.7' WIDE PAVED RES. DRIVE	26.7'

WALKS	
LOCATION	DESCRIPTION
STA. 12+55.5 RT. TO STA. 13+14.7 RT.	5.5' BRICK
STA. 13+14.7 RT. TO STA. 13+38.9 RT.	6.0' BRICK
STA. 13+58.9 RT. TO STA. 14+03.9 RT.	6.0' BRICK
STA. 14+03.9 RT. TO STA. 14+40.9 RT.	5.5' & VAR. BRK.
STA. 14+18.1 RT.	9.2' HMA
STA. 14+40.9 RT. TO STA. 15+12.8 RT.	VAR. BRICK
STA. 15+12.8 RT. TO STA. 16+21.8 RT.	5.5' BRICK
STA. 16+21.8 RT. TO 20+52.0 RT.	VAR. BRICK
STA. 20+74.8 RT. TO STA. 24+64.0 RT.	VAR. BRICK
STA. 24+64.0 RT. TO STA. 25+00.2 RT.	7.0' BRICK
STA. 25+55.9 RT. TO STA. 29+08.2 RT.	5.5' BRICK
STA. 29+08.2 RT. TO STA. 29+25.0 RT.	5.5' / 6.0' HMA
STA. 28+75.0 RT. TO STA. 30+75.0 RT.	10.0' HMA
STA. 11+37.8 LT. TO STA. 11+47.0 LT.	VAR. HMA
STA. 100+34.1 RT. TO STA. 100+73.6 RT.	5.5' HMA
STA. 11+90.4 LT. TO STA. 12+93.8 LT.	5.5' BRICK
STA. 13+17.6 LT. TO STA. 14+44.9 LT.	5.5' BRICK
STA. 13+47.0 LT.	4.0' CONC.
STA. 13+83.7 LT.	5.0' HMA
STA. 14+44.9 LT. TO STA. 200+60.1 LT.	VAR. BRICK
STA. 200+27.6 RT. TO STA. 200+66.5 RT.	VAR. BRICK
STA. 200+66.5 RT. TO STA. 200+77.6 RT.	5.5' BRICK
STA. 15+24.9 LT. TO STA. 17+35.6 LT.	VAR. BRICK
STA. 17+35.6 LT. TO STA. 17+81.0 LT.	7.0' BRICK
STA. 18+13.9 LT. TO STA. 19+38.7 LT.	VAR. BRICK
STA. 19+38.7 LT. TO STA. 19+62.9 LT.	7.0' BRICK
STA. 19+79.0 LT. TO STA. 20+18.4 LT.	7.0' BRICK
STA. 20+18.4 LT. TO STA. 20+33.3 LT.	VAR. BRICK
STA. 400+36.0 LT. TO STA. 400+84.8 LT.	5.5' HMA
STA. 400+30.5 RT. TO STA. 400+42.4 RT.	5.5' HMA
STA. 20+71.7 LT. TO STA. 21+21.1 LT.	7.0' BRICK
STA. 21+21.1 LT. TO STA. 21+75.4 LT.	VAR. BRICK
STA. 21+89.2 LT. TO 700+50.0 LT.	VAR. BRICK
STA. 22+92.8 LT.	5'± HMA
STA. 23+13.4 LT.	4'± BRICK
700+50.0 RT. TO 25+46.6 LT.	VAR. BRICK
STA. 25+72.6 LT. TO STA. 25+93.6 LT.	5.5' BRICK
STA. 26+05.8 LT. TO STA. 27+06.5 LT.	VAR. BRICK
STA. 27+19.3 LT. TO STA. 27+74.3 LT.	5.5' BRICK
STA. 27+81.9 LT. TO STA. 28+44.5 LT.	5.5' BRICK
STA. 28+58.9 LT. TO STA. 28+88.4 LT.	5.5' BRICK
STA. 28+58.9 LT. TO STA. 28+88.4 LT.	5.5' BRICK
STA. 29+04.3 LT. TO 29+25.0 LT.	5.5' BRICK
STA. 29+25.0 LT. TO 29+83.1 LT.	VAR. BRICK
STA. 100+34.0 RT. TO STA. 100+73.6 RT.	5.5' HMA
STA. 101+15.0 RT. TO STA. 101+61.9 RT.	5.5' HMA
STA. 101+80.3 RT. TO STA. 102+16.1 RT.	5.5' HMA
STA. 102+29.7 RT. TO STA. 102+89.6 RT.	5.5' HMA
STA. 300+34.2 RT. TO STA. 301+25.9 RT.	VAR. HMA
STA. 300+34.2 RT. TO STA. 301+25.9 RT.	VAR. HMA
STA. 301+43.7 RT. TO STA. 303+05.5 LT.	VAR. HMA
STA. 902+02.1 LT. TO STA. 902+24.1 LT.	VAR. HMA
STA. 902+63.3 LT. TO STA. 902+81.3 LT.	VAR. HMA
STA. 903+13.5 LT. TO STA. 903+44.0 LT.	VAR. HMA
STA. 903+59.5 LT. TO STA. 903+74.8 LT.	VAR. HMA
STA. 909+03.6 RT. TO STA. 909+15.6 RT.	VAR. HMA
STA. 901+64.4 LT. TO STA. 1000+89.6 RT.	5.5' HMA
STA. 1001+10.8 RT. TO STA. 1002+44.6 RT.	5.5' HMA
STA. 1002+64.2 RT. TO STA. 1003+75.3 RT.	5.5' HMA
STA. 1003+91.2 TO STA. 1004+20.0 RT.	5.5' HMA
STA. 1004+38.2 RT. TO STA. 1005+45.1 RT.	5.5' HMA
STA. 1004+38.2 RT. TO STA. 1005+45.1 RT.	5.5' HMA
STA. 2001+30.8 LT. TO STA. 2001+53.3 LT.	5.5' HMA

ITEM 645.106 DEMOUNT REG WARN CONF RTE SIGN
ITEM 645.116 REINSTALL REG WARN CONF RTE SIGN

FROM STATION	TO STATION	OFFSET	DESCRIPTION	Q'TY
11+47.6 LT.	11+48.0	30.0' LT.	STOP/STREET	3
11+59.5 RT.	11+59.5	32.8 RT.	PARKING	1
11+64.5 RT.	11+64.5	30.3' RT.	HISTORIC INFO	1
12+24.2 RT.	12+24.2	25.5' RT.	HISTORIC INFO	1
12+27.3 RT.	12+27.3	28.4' RT.	EXIT	1
12+65.0 RT.	12+65.0	29.0' RT.	OBDS	1
13+03.1 RT.	12+99.5	28.0' RT.	RESTROOM	1
14+09.5 LT.	14+09.5	21.0' LT.	2 HR PARKING	1
14+38.4 LT.	14+38.4	29.5' LT.	HISTORIC INFO	1
14+80.7 LT.	14+50.0	22.5' LT.	HCPARKING	1
14+82.1 RT.	14+22.0	22.5' RT.	HCPARKING	1
14+87.5 LT.	15+37.0	21.2' LT.	PED CROSSING	1
14+98.0 RT.	15+32.0	29.8' RT.	PED CROSSING	1
15+02.4 LT.	200+38.0	11.0' LT.	ONEWAY/STREET	2
15+52.1 LT.	15+63.0	28' RT.	2 HR PARKING	1
15+63.4 LT.	15+57.8	23.8 LT.	2 HR PARKING	1
16+24.2 LT.	16+24.0	24.0' LT.	2 HR PARKING	1
200+58.8 LT.	200+58.8	11.8' LT.	NO PARKING	1
17+05.3 LT.	16+98.6	24.4 LT.	2 HR PARKING	1
17+65.2 RT.	17+46.0	25.4 RT.	2 HR PARKING	1
17+74.1 LT.	17+74.0	32.5' LT.	CHURCH	1
17+78.4 LT.	300+32.0	18.0' LT.	STOP/STREET	2
18+10.1 RT.	17+73.5	27.0' RT.	PED CROSSING	2
18+56.2 RT.	18+56.2	16.0' RT.	15 MIN PARKING	1
18+56.2 LT.	18+88.2	25.4' LT	15 MIN PARKING	1
18+84.4 RT.	18+84.4	26.1' RT.	2 HR PARKING	1
19+26.9 LT.	19+49.0	24.7' LT.	15 MIN PARKING	1
20+02.3 LT.	19+94.5	30.5' LT.	2 HR PARKING	1
20+06.1 RT.	19+53.5	24.7' RT	2 HR PARKING	1
20+21.1 RT.	20+30.0	29.0' RT.	PED CROSSING	2
20+28.1 LT.	20+26.8	39.0' LT.	STOP/STREET	3
20+47.7 RT.	20+48.0	29.5' RT	STREET	1
21+12.0 LT.	21+12.0	30.5' LT.	2 HR PARKING	1
21+21.5 RT.	21+30.0	26.5' RT	2 HR PARKING	1
21+59.7 RT.	21+69.0	24.5' RT	PED CROSSING	1
21+94.1 RT.	22+20.0	26.3' RT.	2 HR PARKING	1
22+40.6 LT.	22+34.8	25.2' LT	2 HR PARKING	1
22+92.8 LT.	23+08.9	25.5' LT.	2 HR PARKING	1
23+13.7 RT.	23+46.2	26.3' RT.	2 HR PARKING	1
23+86.0 RT.	24+65.0	24.5' RT	PED CROSSING	2
24+00.7 LT.	700+33.0	26.0' LT	STOP/ST./SCHOOLS	4
24+67.3 LT.	24+67.5	25.5' LT	INFORMATION	1
25+00.6 LT.	25+00.0	23.0' LT	NO PARKING	1
25+43.9 RT.	25+58.5	34.0' RT	STREET	2
25+88.8 LT.	25+83.0	22.5' LT	NO PARKING	1
26+13.7 LT.	26+13.0	31.5' RT.	FARMERS MARKET	1
27+61.0 RT.	27+61.0	29.5' RT	ROUTE SIGN	4
27+69.3 LT.	29+69.5	26.5' RT	OBDS	2
29+18.2 RT.	29+29.0	54.0' RT	INFORMATION	1
102+75.8 RT..	102+75.8	16.0' RT.	YIELD	1
303+01 RT.	302+93.5	21.7' RT.	STOP	1
1000+28.2 RT.	1000+28.2	26.2' RT.	RR EXEMPT	2
1005+41.4 RT.	1005+41.4	23.5' RT.	STOP	1
2000+35.7 RT.	2000+35.7	17.5' RT.	STOP AHEAD	1
29+15.0 RT.	29+12.5	29.2' RT.	PED CROSSING	1

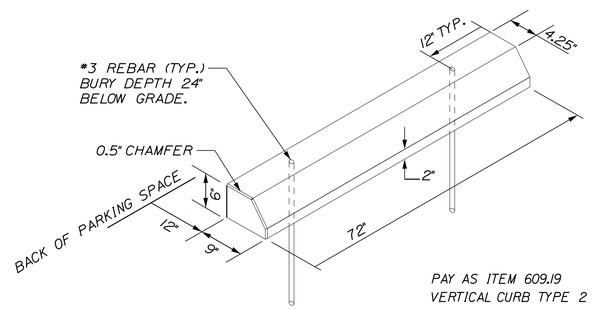
ITEM 645.292 REG. WARN. CONF. RTE SIGNS. TYPE II

STATION	OFFSET	TYPE	DESCRIPTION	HEIGHT	WIDTH
17+66.5	30.0' LT.	W11-2	PED XING	30"	30"
20+18.0	31.0' LT.	W11-2	PED XING	30"	30"
20+79.0	33.5' RT.	R1-1	STOP	36"	36"
21+77.0	27.0' RT.	W11-2	PED XING	30"	30"
22+13.0	25.5' RT.	R7-8	HC PARKING	18"	12"
23+09.0	25.5' LT.	R7-8	HC PARKING	18"	12"
24+32.5	26.0' RT.	R7-8	HC PARKING	18"	12"
24+72.0	24.5' LT.	W11-2	PED XING	30"	30"
29+13.0	26.5' LT.	W11-2	PED XING	30"	30"
15+37.0	21.2' LT.	W16-7p	ARROW	12'	24"
15+32.0	29.8' RT.	W16-7p	ARROW	12'	24"
17+66.5	30.0' LT.	W16-7p	ARROW	12'	24"
17+73.5	27.0' RT.	W16-7p	ARROW	12'	24"
20+18.0	31.0' LT.	W16-7p	ARROW	12'	24"
20+30.0	29.0' RT.	W16-7p	ARROW	12'	24"
24+65.0	24.5' RT.	W16-7p	ARROW	12'	24"
24+72.0	24.5' LT.	W16-7p	ARROW	12'	24"
29+13.0	26.5' LT.	W16-7p	ARROW	12'	24"
29+12.5	29.2' RT.	W16-7p	ARROW	12'	24"

ITEM 841.48 BOLLARDS

STATION	OFFSET	NUMBER
23+99.0	25.50' RT.	1
24+03.0	25.50' RT.	1
24+07.0	25.50' RT.	1
24+11.0	25.50' RT.	1

NOTE: BOLLARD OFFSET IS TO CENTER OF 18" FOUNDATION



CONCRETE WHEELSTOP DETAIL

NOT TO SCALE

Filename: ...\011_Construction_Notes_02.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES E. JAMESON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

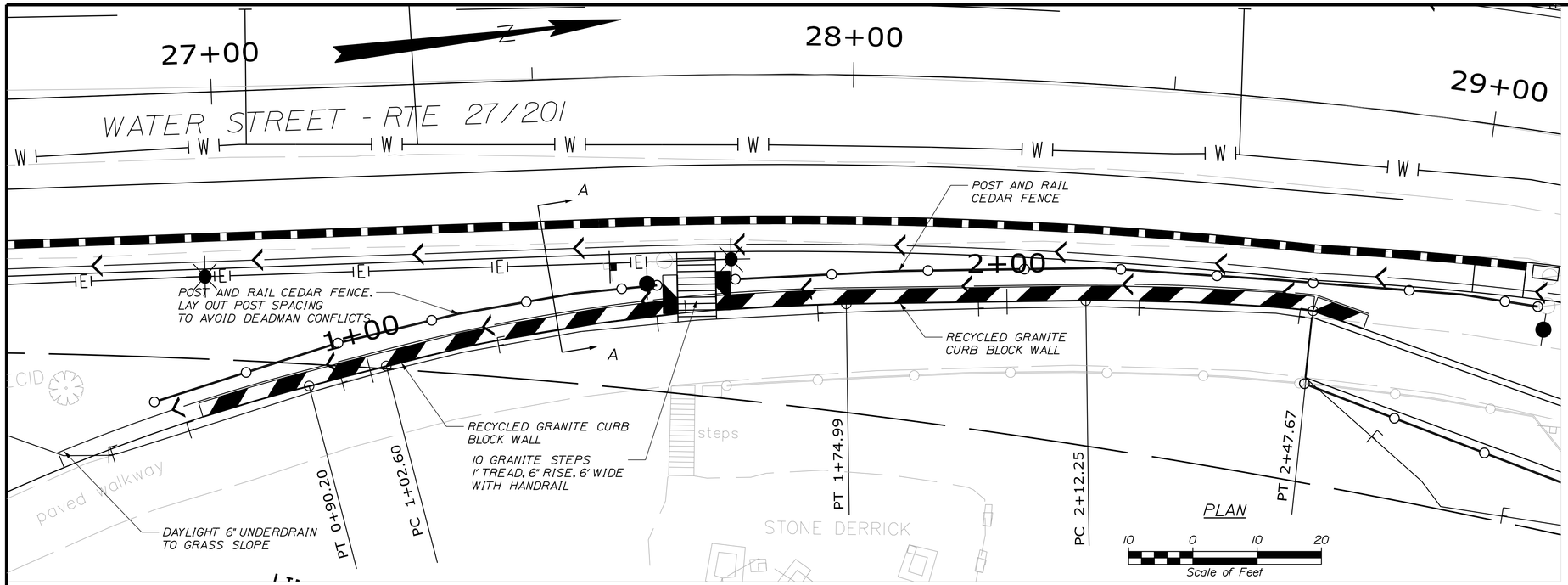
HALLOWELL
WATER STREET

Construction Notes

SHEET NUMBER

11

OF 172



Horizontal Alignment Name: Wall

STATION	NORTHING	EASTING
PC ( ) 0+00.00	530577.93486	1137535.01771
PI ( ) 0+45.44	530619.19672	1137515.98282
CC ( )	530704.02196	1137808.33628
PT ( ) 0+90.20	530664.23890	1137509.97692

Radius: 301.00
Delta: 17°10'11.3" Right
Length: 90.20
Tangent: 45.44
External: 3.41

PC ( ) 1+02.60	530676.52727	1137508.33840

Tangent Direction: N 7°35'41.9" W
Tangent Length: 12.40

PI ( ) 1+38.97	530712.58061	1137503.53107
CC ( )	530716.31033	1137806.69776
PT ( ) 1+74.99	530748.74131	1137507.44998

Radius: 301.00
Delta: 13°46'49.0" Right
Length: 72.39
Tangent: 36.37
External: 2.19

PC ( ) 2+12.25	530785.78701	1137511.46481

Tangent Direction: N 6°11'07.0" E
Tangent Length: 37.26

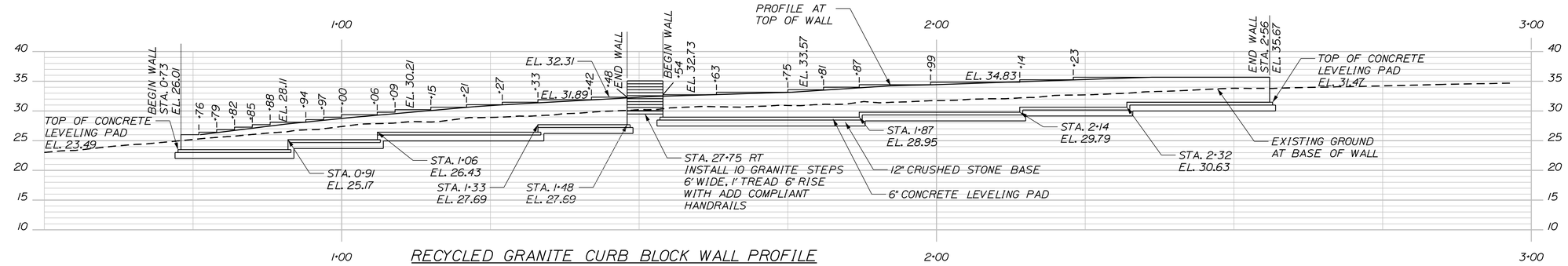
PI ( ) 2+29.98	530803.41178	1137513.37489
CC ( )	530753.35603	1137810.71259
PT ( ) 2+47.67	530820.69047	1137517.34069

Radius: 301.00
Delta: 6°44'28.7" Right
Length: 35.42
Tangent: 17.73
External: 0.52

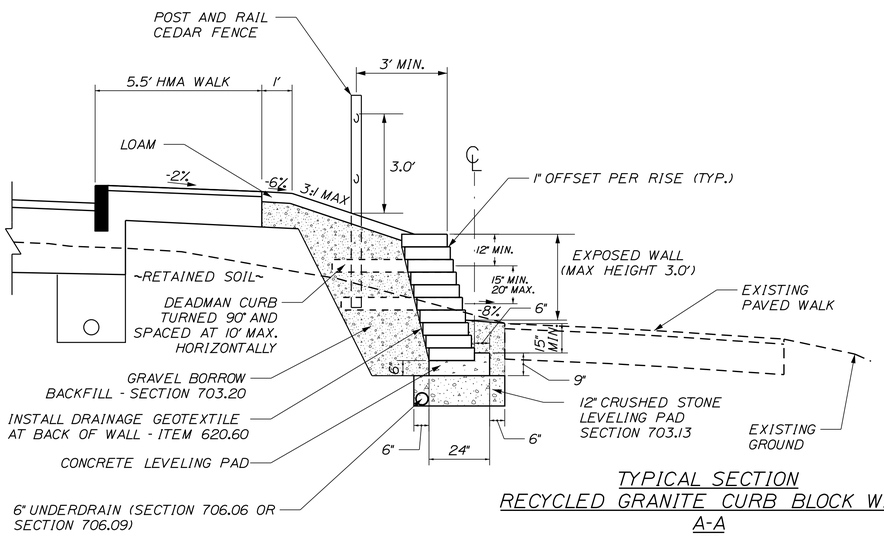
POE ( ) 2+96.39	530864.26634	1137539.12209

Tangent Direction: N 26°33'29.5" E
Tangent Length: 48.72

ALIGNMENT IS AN APPROXIMATION OF 1' OFFSET FROM EDGE OF RAIL TRAIL.



RECYCLED GRANITE CURB BLOCK WALL PROFILE



TYPICAL SECTION
RECYCLED GRANITE CURB BLOCK WALL
A-A
NTS

1. THE CONTRACTOR SHALL FURNISH AND CONSTRUCT A RECYCLED GRANITE CURB WALL WITH GRANITE STEPS IN ACCORDANCE SPECIAL PROVISION 679 AS SHOWN ON THE PLANS AND SPECIAL DETAILS IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE RECYCLED GRANITE CURB WALL WITH GRANITE STEPS TO THE RESIDENT FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. PLAN DETAILS SHOWN ARE FOR ESTIMATING PURPOSES ONLY.
2. BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 703.20 GRAVEL BORROW, EXCEPT THAT THE BACKFILL MATERIAL SHALL ONLY CONTAIN PARTICLES THAT WILL PASS THE 3-INCH SQUARE MESH SIEVE IN ACCORDANCE WITH SPECIAL PROVISION 679.
3. ALL EXPOSED WALL FACES SHALL BE RECYCLED GRANITE CURB SALVAGED FROM THE PROJECT. DEADMEN AND OTHER BURIED CURBING MAY BE FROM AN ALTERNATE SOURCE AS NECESSARY TO MEET PROJECT MATERIAL REQUIREMENTS. BROKEN SECTIONS OF GRANITE CURB SHALL NOT BE ALLOWED UNLESS APPROVED BY THE RESIDENT.
4. A DRAINAGE SYSTEM SHALL BE INCLUDED IN THE WALL CONSTRUCTION. THE DRAINAGE SYSTEM SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE WALL.
5. A MINIMUM EMBEDMENT DEPTH OF 1.25 FEET AT THE TOE OF THE WALL IS REQUIRED IN THE CONSTRUCTION OF THE RECYCLED GRANITE CURB WALL WITH GRANITE STEPS.
6. PROFILE IS AT FACE OF WALL APPROXIMATELY 1 FOOT OFF BACK EDGE OF EXISTING RAIL TRAIL.
7. TOP ELEVATIONS ARE TOP OF RECYCLED GRANITE CURB.
8. BOTTOM ELEVATIONS ARE TOP OF CONCRETE LEVELING PAD BELOW RECYCLED GRANITE CURB GRANITE BLOCKS.
9. STATIONS ARE AT FACE OF LOWEST EXPOSED WALL COURSE.
10. SALVAGED RECYCLED GRANITE CURB DIMENSIONS ARE APPROXIMATE BASED ON MAINEDOT STANDARD DETAIL 609(07) VERTICAL CURB TYPE 1.
11. GRANITE BLOCK DEADMEN SHALL BE EMBEDDED A MINIMUM OF 5 FEET FROM THE FACE OF THE WALL.
12. SALVAGED RECYCLED GRANITE CURB USED FOR WALL CONSTRUCTION SHALL HAVE A MINIMUM LENGTH OF 4 FEET UNLESS APPROVED BY THE RESIDENT.
13. THE EXPOSED VERTICAL FACE OF THE SALVAGED RECYCLED GRANITE CURB PIECES SHALL BE THE TOP FACE OF THE ORIGINAL CURB.
14. THE TOP SURFACE OF EACH COURSE SHALL BE LEVELLED TRANSVERSELY, PERPENDICULAR TO THE WALL FACE. WITH SHIMS PLACED BETWEEN COURSES. SHIMS SHALL NOT BE VISIBLE ON THE EXPOSED FACE. SHIMS SHALL BE STONE OR OTHER APPROVED DURABLE MATERIAL. SUFFICIENT SHIMS SHALL BE PLACED TO STABILIZE GRANITE PIECES AGAINST MOVEMENT.
15. VERTICAL JOINTS SHALL BE SEPARATED A MINIMUM OF 2 FEET HORIZONTALLY FROM VERTICAL JOINTS IN WALL COURSES ABOVE AND BELOW.
16. THE EXPOSED FACES OF EACH SALVAGED RECYCLED GRANITE CURB USED SHALL BE DRESSED TO AN APPROXIMATE TRUE PLANE WITH NO PROJECTIONS OR DEPRESSIONS ON THOSE SURFACES GREATER THAN 1/2-INCH. EXPOSED FACES AND TOPS OF ADJACENT RECYCLED GRANITE CURB SECTIONS SHALL BE UNIFORM IN COLOR AND TEXTURE.
17. THE EXPOSED FACES OF RECYCLED GRANITE CURB SHALL BE CLEANED OF PAINT, DIRT AND OTHER DEBRIS PRIOR TO USE FOR WALL CONSTRUCTION.
18. GAPS BETWEEN RECYCLED GRANITE CURB WALL COURSES VERTICALLY AT THE WALL FACE AND BETWEEN ADJACENT RECYCLED GRANITE CURB SECTIONS IN THE SAME COURSE HORIZONTALLY SHALL NOT EXCEED 3/4-INCH. THE MAXIMUM GAP HORIZONTALLY BETWEEN ADJACENT PIECES SHALL BE 1/4-INCH.
19. GRANITE BLOCK DEADMEN PIECES SHALL BE CONNECTED TO ADJACENT GRANITE BLOCK PIECES IN THE SAME COURSE WITH STEEL DOWELS. DOWELS SHALL BE #4 BARS OR LARGER GRADE 60 STEEL, SMOOTH, AND 8-INCHES LONG. DOWELS SHALL BE EMBEDDED EQUALLY AND CENTERED VERTICALLY INTO ADJACENT GRANITE PIECES. GRANITE BLOCKS SHALL BE DRILLED APPROXIMATELY 6-INCHES FROM THE EXPOSED VERTICAL FACE TO RECEIVE THE DOWELS AND GROUTED IN PLACE USING AN APPROVED NON-SHRINK GROUT FROM THE MAINEDOT PREQUALIFIED LIST.
20. THE CONTRACTOR SHALL FURNISH HANDRAILS FOR THE GRANITE STEPS. THE HANDRAILS SHALL MEET THE 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN. THE HANDRAILS SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW.
21. THE CONTRACTOR SHALL FURNISH A 3-FOOT HIGH CEDAR RAIL FENCE LOCATED 3-FEET BACK FROM FACE OF WALL. THE CEDAR RAIL FENCE WILL BE PAID FOR UNDER ITEM NO. 607.22.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1862(200)
WIN 18622.00
HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960 P.E. NUMBER
1/12/18 DATE

BY	DATE
ERNIE MARTIN	1-18
JLE	1-18

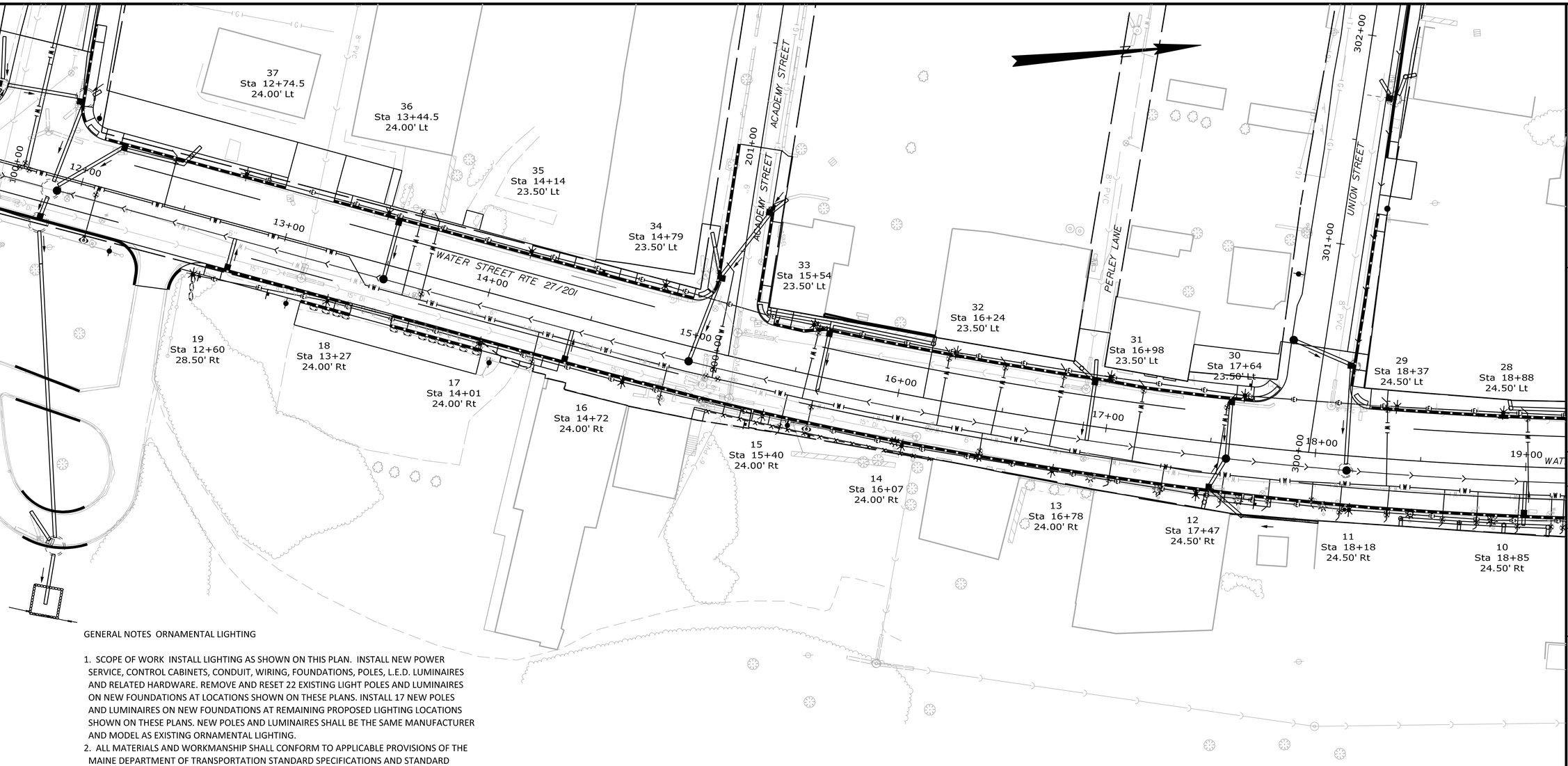
PROJ. MANAGER	
DESIGN-DETAILED	ALG
CHECKED-REVIEWED	ALG
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HALLOWELL
WATER STREET
SPECIAL DETAILS
Recycled Granite Curb Wall with Granite Steps

SHEET NUMBER
12
OF 172

Filename: ...\012_Wall_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\013_LightingPlanSht1.dgn Division: HIGHWAY Username: common Date:1/22/2018

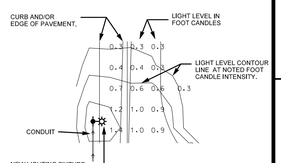


GENERAL NOTES ORNAMENTAL LIGHTING

1. SCOPE OF WORK INSTALL LIGHTING AS SHOWN ON THIS PLAN. INSTALL NEW POWER SERVICE, CONTROL CABINETS, CONDUIT, WIRING, FOUNDATIONS, POLES, L.E.D. LUMINAIRES AND RELATED HARDWARE. REMOVE AND RESET 22 EXISTING LIGHT POLES AND LUMINAIRES ON NEW FOUNDATIONS AT LOCATIONS SHOWN ON THESE PLANS. INSTALL 17 NEW POLES AND LUMINAIRES ON NEW FOUNDATIONS AT REMAINING PROPOSED LIGHTING LOCATIONS SHOWN ON THESE PLANS. NEW POLES AND LUMINAIRES SHALL BE THE SAME MANUFACTURER AND MODEL AS EXISTING ORNAMENTAL LIGHTING.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO APPLICABLE PROVISIONS OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DETAILS, NATIONAL ELECTRICAL CODE AND ANY REQUIREMENTS OF THE POWER COMPANY.
3. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS TO AVOID NATURAL AND BUILT SITE FEATURES THAT WOULD CONFLICT WITH PROPER INSTALLATION OF POLE FOUNDATIONS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ENSURE AWARENESS OF SITE CONDITIONS THAT COULD AFFECT THE BID.
5. ALL LIGHTING CIRCUITS ARE TO BE PHOTOCELL ACTIVATED BY PHOTOCELL ON CONTROL CABINET.
6. LIGHTING FIXTURE VOLTAGE SHALL BE 240 VOLTS.
7. LIGHTING FIXTURES SHALL BE IES CUTOFF, LIGHT EMITTING DIODE (LED) FIXTURES, IES DISTRIBUTION TYPE III, GASKETED, WITH SURGE PROTECTION AND A DOUBLE FUSE KIT. FIXTURES SHALL BE SPRING CITY 'CLEARWATER' 55-WATT SQUARE LED LUMINAIRES AS MANUFACTURED BY Spring City Electrical Manufacturing Company, One South Main Street, Spring City, PA 19475, Phone: (610) 948-4000, CATALOG NUMBER: ALMCLW LE055 EV2 X2 45 CR3 Y SDP CML FCW CB.
8. ORNAMENTAL POLES SHALL BE SPRING CITY 'NEWBURYPORT' STYLE AS MANUFACTURED BY Spring City Electrical Manufacturing Company, One South Main Street, Spring City, PA 19475, Phone: (610) 948-4000. POLES SHALL BE 9.25' HIGH, ONE-PIECE HEAVY WALL CAST IRON WITH WEATHERPROOF GFI RECEPTACLE AND COVER LOCATED 6 INCHES FROM TOP OF POLE, 13 INCH SQUARE BASE AND 14 INCH DIAMETER BOLT CIRCLE. FINISH SHALL BE 'CLASSIC BLACK'.
9. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO THE CITY OF HALLOWELL A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.
10. CONDUIT SHALL BE 2" MINIMUM DIAMETER. BURIED CONDUIT NOT UNDER PAVEMENT SHALL BE PVC SCHEDULE 40. BURIED CONDUIT UNDER PAVEMENT SHALL BE PVC SCHEDULE 80. CONDUIT FROM THE ELECTRICAL SERVICE TO THE CONTROL CABINET SHALL BE EITHER PVC CONDUIT ENCASED IN CONCRETE OR STEEL CONDUIT. IF PVC CONDUIT ENCASED IN CONCRETE IS USED, CONCRETE SHALL BE 3000 PSI MINIMUM STRENGTH AND A MINIMUM THICKNESS OF FOUR INCHES SURROUNDING THE CONDUIT. CONCRETE ENCASEMENT WILL BE INCIDENTAL TO PAYMENT FOR CONDUIT. MINIMUM BURIAL DEPTH FOR ALL CONDUIT SHALL BE 36".
11. THERE SHALL BE NO SPLICES OR JUNCTION BOXES BETWEEN POLES. THE WIRE IN CONDUITS SHALL BE CONTINUOUS BETWEEN POLES.
12. BUSHINGS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
13. PULL WIRE SHALL BE INSTALLED IN ALL CONDUIT.14. ESTIMATED QUANTITIES INCLUDE AN ALLOWANCE FOR INSTALLATION OF ITEM 626.11, PRECAST CONCRETE JUNCTION BOX, AT UNDETERMINED LOCATIONS. JUNCTION BOXES ARE INTENDED TO BE USED ONLY AS PULL BOXES. ACTUAL NUMBER AND LOCATIONS SHALL BE SUBJECT TO APPROVAL OF THE RESIDENT PRIOR TO INSTALLATION. JUNCTION BOXES SHALL HAVE VERTICAL SIDES.
15. IF STRUCTURAL ROCK IS ENCOUNTERED DURING INSTALLATION OF FOUNDATIONS, PAYMENT FOR EXCAVATION AND DOWELING REINFORCING INTO ROCK SHALL BE CONSIDERED INCIDENTAL TO FOUNDATION ITEMS.
16. PAYMENT UNDER ITEM 634.160, HIGHWAY LIGHTING WILL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PROVIDE A FULLY FUNCTIONING ORNAMENTAL LIGHTING SYSTEM, EXCEPT THOSE ITEMS TO BE PAID UNDER OTHER RELATED BID ITEMS IN THE CONTRACT.
17. ALL LIGHT BASES SHALL HAVE A GROUND ROD LOCATED IN THE FOUNDATION THAT IS BONDED TO THE GROUNDING CONDUCTOR. PAYMENT FOR THE GROUND ROD SHALL BE INCLUDED IN ITEM 634.160, HIGHWAY LIGHTING.
18. NON-CONDUCTIVE BUSHINGS SHALL BE USED FOR CONNECTION OF RIGID METAL CONDUIT TO ALUMINUM CABINETS.
19. INSTALL SERVICE AND MULTI-CIRCUIT CONTROL CABINET AT THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR ALSO SHALL INSTALL A METER DISCONNECT IN A SEPARATE NEMA 3R CABINET. CABINETS SHALL BE LOCKABLE. EACH SERVICE CABINET SHALL BE MARKED WITH ARC HAZARD TYPE 1, 2, 3 OR 4 AND THE APPROPRIATE PPE REQUIRED. THE CABINETS SHALL BE POWDER COATED BLACK IN COLOR TO MATCH THE POLES.
20. SECONDARY CIRCUIT WIRING SHALL BE #10 XHHW-2 STRANDED COPPER.
21. ABANDON EXISTING CONDUIT. REMOVE EXISTING LIGHTING POWER SERVICE.

LEGEND for LIGHTING

- Control Cabinet and Service
- Lighting Conduit
- Pull Box
- New or relocated Light Pole and Luminaire
- Existing Light Pole and Luminaire to be Relocated



KEY TO PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE ALBERT L GODFREY No. 4226 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
P.E. NUMBER	4226	
DATE	1/12/18	

PROJ. MANAGER	ERNIE MARTIN	DATE
DESIGN-DETAILED	ALG	RAL 1-18
CHECKED-REVIEWED	ALG	ALG 1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

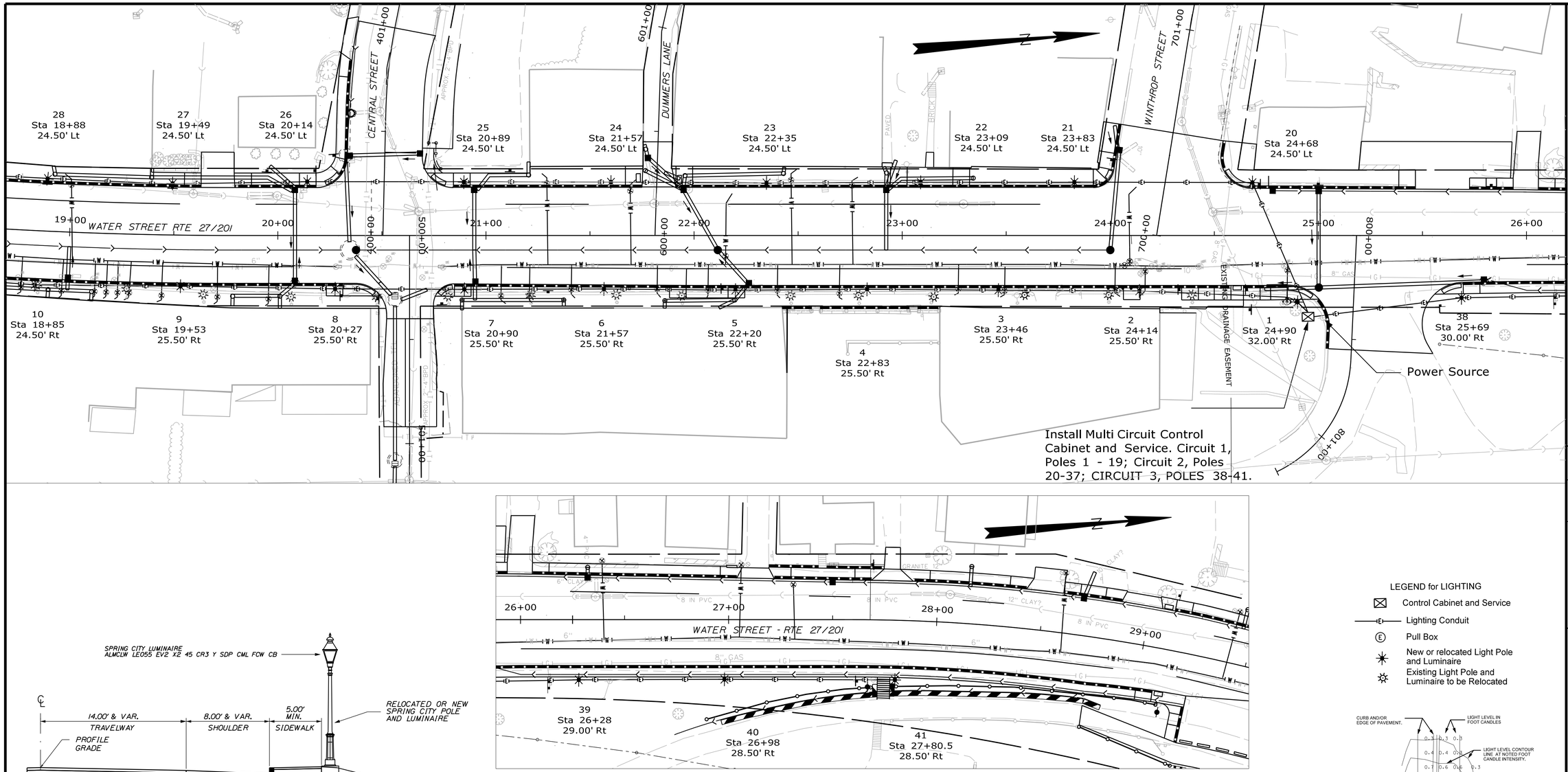
HALLOWELL
WATER STREET

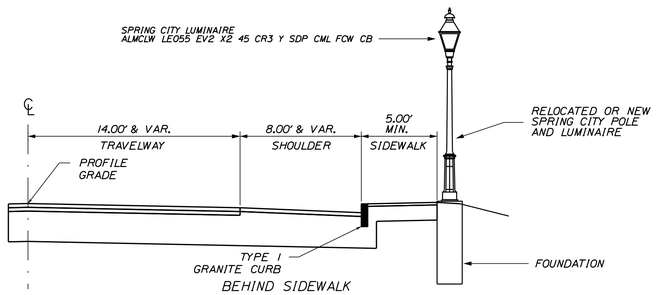
LIGHTING PLAN

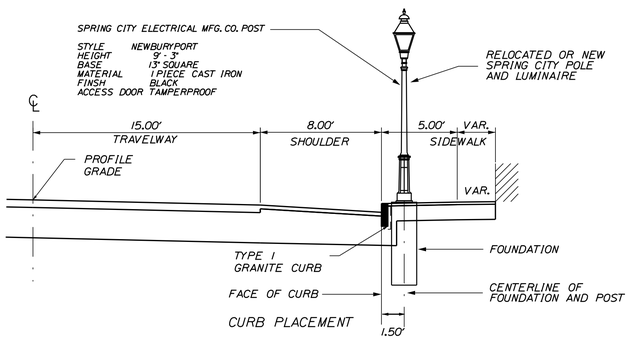
SHEET NUMBER

13

OF 172







PLACEMENT OF LIGHT POLES

STATISTICS

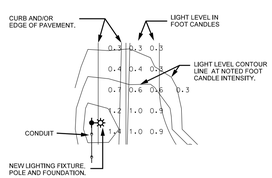
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone	+	1.4 fc	3.2 fc	0.2 fc	16.0:1	7.0:1

LUMINAIRE SCHEDULE

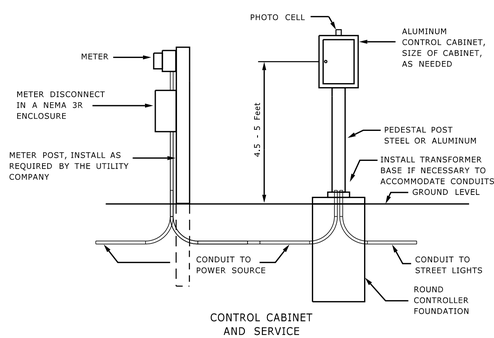
Symbol	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
✶	39	CLW-LE055-X2-45-CR3-YSDP	n/a	n/a	CLW-LE055-X2--45-CR3-YSDP.ies	Absolute	0.90	55

LEGEND for LIGHTING

- Control Cabinet and Service
- Lighting Conduit
- Pull Box
- New or relocated Light Pole and Luminaire
- Existing Light Pole and Luminaire to be Relocated



KEY TO PLAN



CONTROL CABINET AND SERVICE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

ALBERT L. GODFREY No. 4226 REGISTERED PROFESSIONAL ENGINEER STATE OF MAINE

SIGNATURE	4226
P.E. NUMBER	
DATE	1/12/18

PROJ. MANAGER	ERNIE MARTIN
DESIGN-DETAILED	ALG
CHECKED-REVIEWED	ALG
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	BY	DATE
REVISIONS 1	RAL	1-18
REVISIONS 2	ALG	1-18
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL WATER STREET

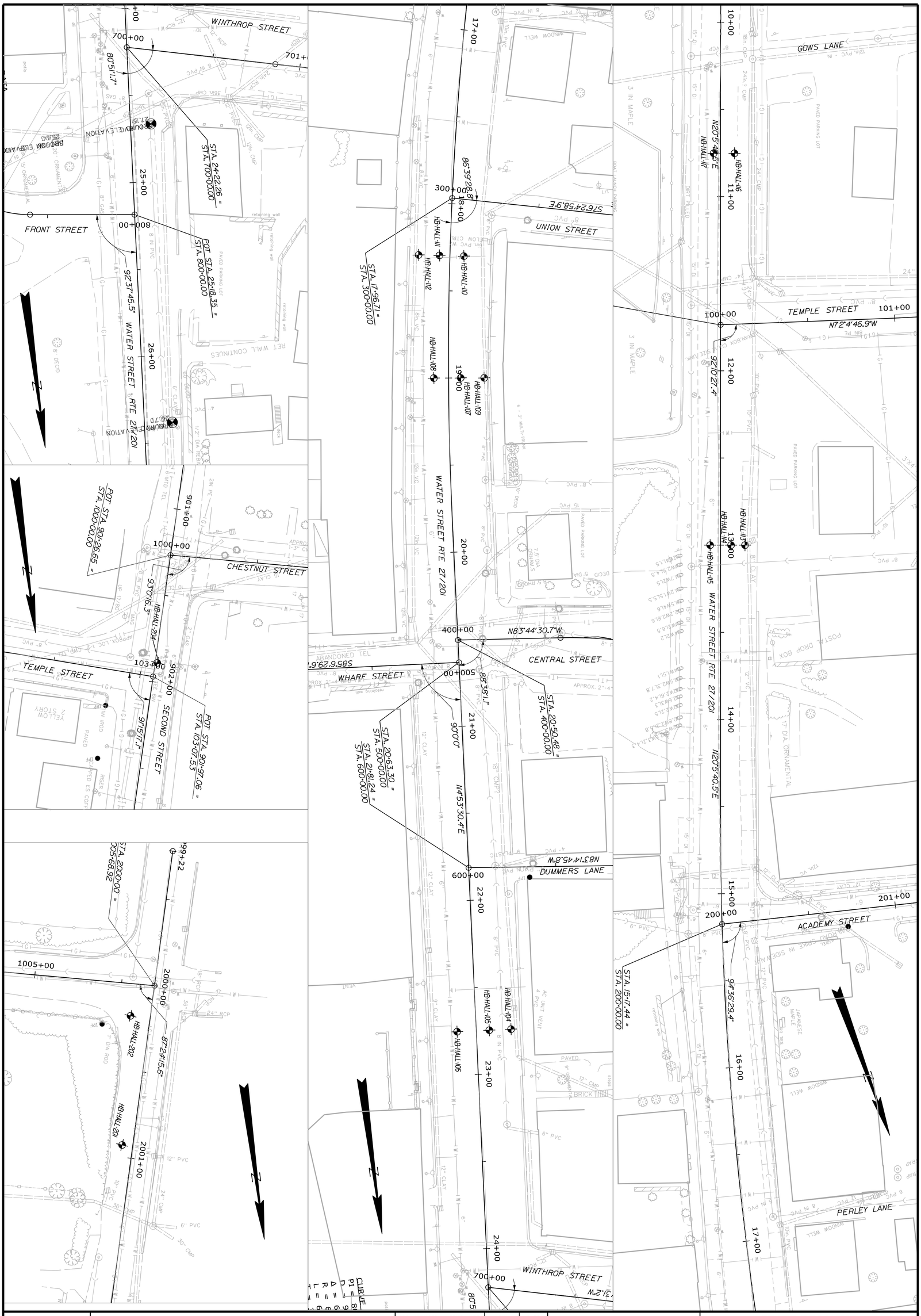
LIGHTING PLAN

SHEET NUMBER

14

OF 172

Filename: ...\014_LightingPlanSht2.dgn Division: HIGHWAY Username: common Date:1/22/2018



PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

JAMES L. EASON No. 7960 LICENSED PROFESSIONAL ENGINEER STATE OF MAINE

HALLOWELL
WATER STREET
BORING LOCATIONS

SHEET NUMBER 15 OF 172

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00 HIGHWAY PLANS

STA. 10+00 TO STA. 11+00
REMOVE EXISTING PAVEMENT MARKINGS

SHARROW LANE MARKING (TYPICAL)

GOWS LANE

TEMPLE STREET

TYPICAL 8' WIDE PARKING SPACE. 20' LENGTH END SPACES 22' LENGTH INTERIOR SPACES

CROSSWALK 2'x6' WHITE BAR 4' O.C.

DEMOUNT & REINSTALL (2)

DEMOUNT & RELOCATE

ACADEMY STREET

DEMOUNT & RELOCATE

6' WIDE GRANITE SLAB CROSSWALK WITH 2' WIDE WHITE BORDER STRIPE

DEMOUNT & RELOCATE (3) MOUNT ON LIGHT

PERLEY LANE

WATER STREET RTE 27/201

CROSSWALK 2'x6' WHITE BAR 4' O.C.

STA. 10+00 MATCH EXISTING PAVEMENT MARKINGS

DEMOUNT & REINSTALL (4)

DEMOUNT & REINSTALL

DEMOUNT & RELOCATE

DEMOUNT & RELOCATE

DEMOUNT & RELOCATE (2)

DEMOUNT AND REINSTALL (3)

WII-2 30"X30"

WI6-7p 24"X12"

UNION STREET

DEMOUNT AND REINSTALL

DEMOUNT AND RELOCATE (2) TO LIGHT POLES

CROSSWALK 2'x6' WHITE BAR 4' O.C.

DEMOUNT AND RELOCATE (3)

CROSSWALK 2'x6' WHITE BAR 4' O.C.

CENTRAL STREET

DEMOUNT AND REINSTALL

CROSSWALK 2'x6' WHITE BAR 4' O.C.

DUMMERS LANE

TYPICAL 8' WIDE PARKING SPACE. 20' LENGTH END 22' LENGTH INTERIOR

DEMOUNT AND REINSTALL ON LIGHT

R7-8 12"X18" ON LIGHT

WINTHROP STREET

WII-2 30"X30"

DEMOUNT AND RELOCATE

DEMOUNT AND REINSTALL

DEMOUNT AND RELOCATE TO LIGHT POLE

DEMOUNT AND RELOCATE (2)

SHARROW LANE MARKING (TYPICAL)

DEMOUNT AND RELOCATE TO LIGHT POLE

DEMOUNT AND RELOCATE

CROSSWALK 2'x6' WHITE BAR 4' O.C.

DEMOUNT AND RELOCATE TO LIGHT POLE

WATER STREET RTE 27/201

WII-2 30"X30"

WI6-7p 24"X12"

DEMOUNT AND REINSTALL

WHARF STREET

STOP RI-1 30"X30"

DEMOUNT AND REINSTALL

R7-8 12"X18"

DEMOUNT AND REINSTALL

6' WIDE GRANITE SLAB CROSSWALK WITH 18" WIDE COBBLE BORDER

WII-2 30"X30"

WI6-7p 24"X12"

6' WIDE GRANITE SLAB CROSSWALK WITH 2' WIDE WHITE BORDER STRIPE

WINTHROP STREET

DEMOUNT & REINSTALL

WILSON LANE

DEMOUNT & REINSTALL (2)

CROSSWALK 2'x6' WHITE BAR 4' O.C.

WII-2 30"X30"

WI6-7p 24"X12"

STA. 29+75 MATCH EXISTING PAVEMENT MARKING

DEMOUNT & REINSTALL

WATER STREET - RTE 27/201

DEMOUNT & RELOCATE

DEMOUNT & DSYL

DEMOUNT & REINSTALL

EXISTING DRAINAGE EASEMENT

R7-8 12"X18"

DEMOUNT AND RELOCATE

FRONT STREET

DEMOUNT & REINSTALL (2)

CROSSWALK 2'x6' WHITE BAR 4' O.C.

TYPICAL 8' WIDE PARKING SPACE. 20' LENGTH END SPACES 22' LENGTH INTERIOR SPACES

DEMOUNT & REINSTALL

DEMOUNT & REINSTALL (4)

SHARROW LANE MARKING (TYPICAL)

DEMOUNT & RELOCATE

10 - 9'x18' PARKING SPACES

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES EASON No 7960 LICENSED PROFESSIONAL ENGINEER

BY	DATE
ERNE MARTIN	
PROJ. MANAGER	
DESIGN-DETAILED	ALG 1-18
CHECKED-REVIEWED	ALG 1-18
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
WATER STREET
SIGNING AND STRIPING PLAN

SHEET NUMBER
16
OF 172

Filename: ...\016_STRIPING_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\017_Detour_Plan_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

STOP
R1-1 36"X36" (4) AND 48"X48" (1)

R3-1 (3) 24"X24"

R3-3 (4) 24"X24"

DO NOT ENTER
R5-1 (19) 30"X30"

ONE WAY
R6-1R (11) 36"x12"

ONE WAY
R6-1L (8) 36"x12"

STOP AHEAD
W3-1 36"X36" (1) AND 48"X48" (1)*

SOUTH
M3-3 (16) 24"X12"

27
M1-5 (8) 24"X24"

201
M1-4 (8) 30"X24"

M5-1L (4) 21"X15"

M5-1R (4) 21"X15"

DETOUR
M4-8 (4) 24"X12"

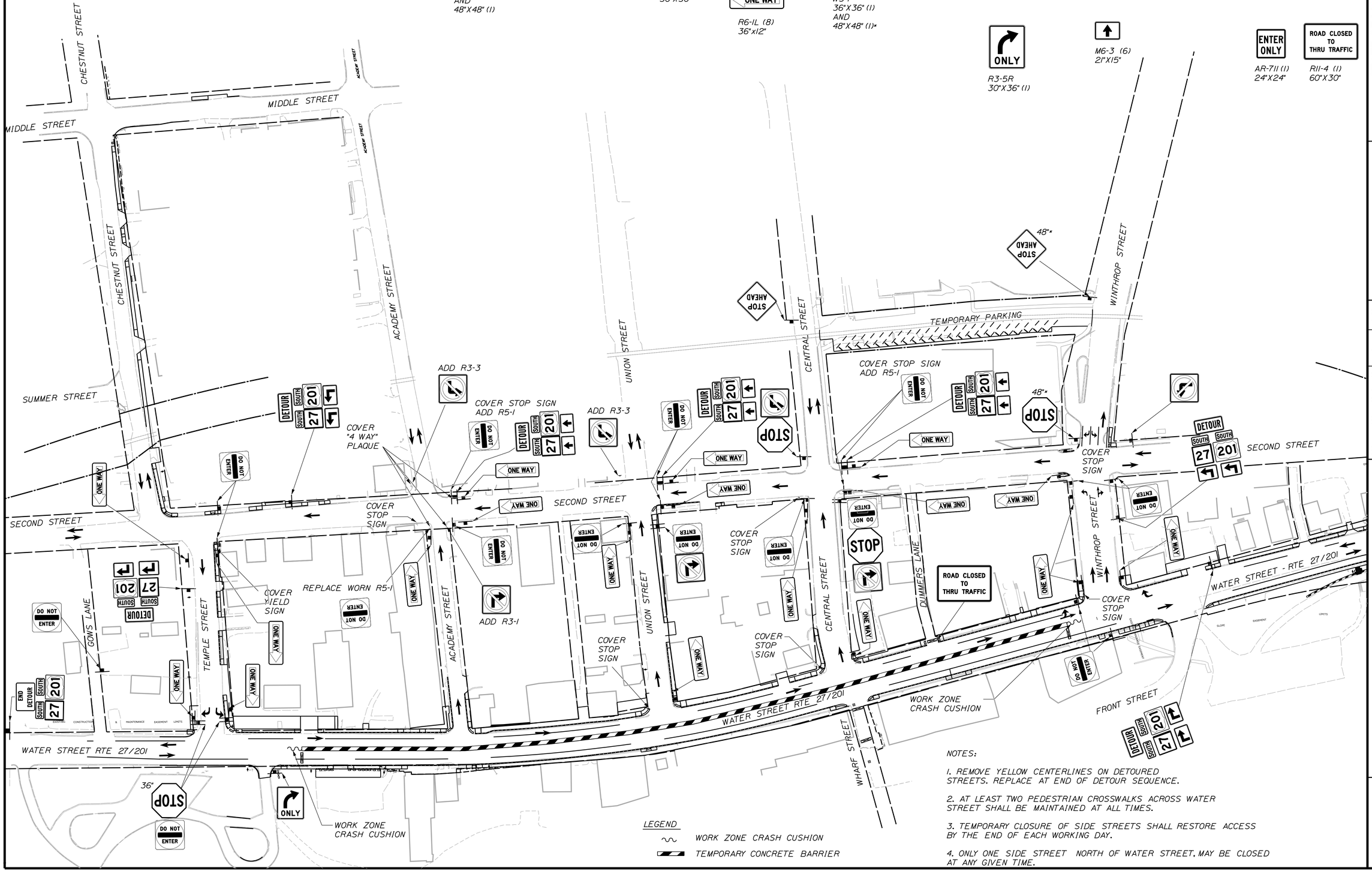
END DETOUR
M4-8a (1) 24"X18"

ONLY
R3-5R 30"X36" (1)

M6-3 (6) 21"X15"

ENTER ONLY
AR-7 (1) 24"X24"

ROAD CLOSED TO THRU TRAFFIC
R11-4 (1) 60"X30"



LEGEND

WORK ZONE CRASH CUSHION

TEMPORARY CONCRETE BARRIER

NOTES:

1. REMOVE YELLOW CENTERLINES ON DETOURED STREETS. REPLACE AT END OF DETOUR SEQUENCE.

2. AT LEAST TWO PEDESTRIAN CROSSWALKS ACROSS WATER STREET SHALL BE MAINTAINED AT ALL TIMES.

3. TEMPORARY CLOSURE OF SIDE STREETS SHALL RESTORE ACCESS BY THE END OF EACH WORKING DAY.

4. ONLY ONE SIDE STREET NORTH OF WATER STREET, MAY BE CLOSED AT ANY GIVEN TIME.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L. EASON No. 7960 REGISTERED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2	JLE	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

7960 P.E. NUMBER

1/12/18 DATE

HALLOWELL WATER STREET

STAGE 1 DETOUR PLAN

SHEET NUMBER

17

OF 172

LEGEND

WORK ZONE CRASH CUSHION

TEMPORARY CONCRETE BARRIER

STOP
R1-1
36"X36" (4)
AND
48"X48" (1)

R3-1 (3)
24"X24"

R3-3 (4)
24"X24"

DO NOT ENTER
R5-1 (19)
30"X30"

ONE WAY
R6-1R (11)
36"x12"

ONE WAY
R6-1L (8)
36"x12"

STOP AHEAD
W3-1
36"X36" (1)
AND
48"X48" (1)*

SOUTH
M3-3 (16)
24"X12"

27
M1-5 (8)
24"X24"

201
M1-4 (8)
30"X24"

M5-1L (4)
21"X15"

M5-1R (4)
21"X15"

DETOUR
M4-8 (4)
24"X12"

END DETOUR
M4-8a (1)
24"X18"

ONLY
R3-5R
30"X36" (1)

M6-3 (6)
21"X15"

ROAD CLOSED TO THRU TRAFFIC
R11-4 (1)
60"X30"

CHESTNUT STREET
MIDDLE STREET
ACADEMY STREET
SUMMER STREET
SECOND STREET
GOWS LANE
TEMPLE STREET
UNION STREET
CENTRAL STREET
TEMPORARY PARKING
DUMMERS LANE
WINTHROP STREET
FRONT STREET
WHARF STREET
WATER STREET RTE 27/201

ADD R3-3
ADD R3-1
COVER STOP SIGN
ADD R5-1
COVER "4 WAY" PLAQUE
COVER STOP SIGN
COVER YIELD SIGN
REPLACE WORN R5-1
48"*
36"

NOTE: OPENINGS FOR SIDE STREETS SHALL ACCOMODATE WB-50 TRUCK TURNING MOVEMENTS (TYP.)

NOTES:

1. REMOVE YELLOW CENTERLINES ON DETOURED STREETS. REPLACE AT END OF DETOUR SEQUENCE.

2. AT LEAST TWO PEDESTRIAN CROSSWALKS ACROSS WATER STREET SHALL BE MAINTAINED AT ALL TIMES.

3. TEMPORARY CLOSURE OF SIDE STREETS SHALL RESTORE ACCESS BY THE END OF EACH WORKING DAY.

4. ONLY ONE SIDE STREET NORTH OF WATER STREET. MAY BE CLOSED AT ANY GIVEN TIME.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L EASON No 7960 LICENSED PROFESSIONAL ENGINEER

	SIGNATURE
	7960
	P.E. NUMBER
	1/12/18
	DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2	JLE	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL WATER STREET

STAGE 2 DETOUR PLAN

SHEET NUMBER

18

OF 172

Filename: ...\018_Detour_Plan_02.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STA. 901+11 BEGIN 1.5" MILL AND HMA OVERLAY MATCH EXISTING SECTION

POT STA. 901+26.65 = STA. 1000+00.00

PLUG AND FILL

CHARLES W. UNDERWOOD
THERESA M. UNDERWOOD

POLE NET&T 2/2

MICHAEL T. BARDEN
ANDREA M. LAPOINTE

SHORTEN SIDEWALK 8 LF FOR TEMPORARY DETOUR

5' SIDEWALK

CARMEN LAPIERRE
ROLAND LAPIERRE

T. C. L. CARMEN LAPIERRE ROLAND LAPIERRE

P.L.

GREY HOUSE

FRED M. KNEE
MERCEDES R. KNEE

PAVED PARKING LOT

PI 903+73.96
Δ = 00°49'57.0" RT.

STA. 903+75 END 1.5" MILL AND HMA OVERLAY MATCH EXISTING SECTION

ACADEMY STREET

COTTON MILL ASSOCIATES LIMITED PARTNERSHIP
f/k/a COTTON MILL ASSOCIATES

GOMS LANE

TRACY L. MEAGHER

PI 101+00.00
Δ = 00°56'24.81" LT.

POLE CMP 59

TEMPLE STREET

N27°11'47"W

36.0' OF 15" PIPE

CHARLES W. UNDERWOOD
THERESA M. UNDERWOOD
JUSTIN C. UNDERWOOD

N17°24'46.9"W

STA. 100+60 END FULL DEPTH RECONSTRUCTION MATCH EXISTING SECTION BEGIN 1.5" MILL AND OVERLAY

INLET DRAINAGE STRUCTURE STA. 12+47± LT.

CONSTRUCT APPROX. 17.5'X4' CONCRETE WALK. MATCH EXISTING WALK.

INTERCEPT EXISTING CULVERT WITH 24" OPT III PIPE

24" OPT III

LIM. CONST.

TEMPORARY CONSTRUCTION LIMITS

POLE NET&T 59

42" RCP. CL. III

GRADE TO RETAIN EXISTING TIMBER PLANTER

CONSTRUCTION & MAINTENANCE EASE. LIMITS

5.5' SIDEWALK

REM CB

REM MH

12" RCP

CONNECT CELLAR DRAIN

REM CB

12" RCP. CL III

18" TYPE 'C' UD

WATER STREET RTE 27/201

REM MH

15" TYPE 'C' UD

N20°5'40.5"E

REMOVE REM CB

12" OPT III

42" RCP. CL. III 12" OPT III

6" TYPE 'B' UD

12" TYPE 'C' UD

POLE NET&T 305/595

R 15'

5.5' SIDEWALK

22LF FLUSH GRANITE

POLE CMP 58

POLE CMP 57

TEMPORARY CONSTRUCTION LIMITS

RELOCATE BOULDERS (3)

CONSTRUCTION

MAINTENANCE EASEMENT

RELOCATE BOULDERS TO BACK OF SIDEWALK (12). PAYMENT FOR BOULDER RELOCATION TO BE MADE UNDER HOURLY EQUIPMENT AND LABOR ITEMS.

GRADE TO AVOID DISTURBING EXISTING SIGN.

12" OPT III

INTERCEPT EXISTING 12" PIPES

8'x5' WIDE HMA WALK

PC 14+60.35

REM MH

15" OPT III

REM CB

R.D.

TEMPORARY CONSTRUCTION LIMITS

106± S.F.

5.5' SIDEWALK

DWF

R.D.

N16°11'45.5W

ACADEMY STREET

COTTON MILL ASSOCIATES LIMITED PARTNERSHIP
f/k/a COTTON MILL ASSOCIATES

STA. 201+00.00 END FULL DEPTH RECONSTRUCT MATCH EXISTING SECTION

INLET DRAINAGE STRUCTURE STA. 200+76± RT.

12" OPT III

DO NOT DISTURB

NATHAN W. SENNETT

8"X8" TIMBER SPECIAL CURB

REM CB

TEMPORARY CONST. LIMITS

94°36'29.4"

12" OPT III

12" TYPE 'C' UD

5.5' SIDEWALK

POLE CMP 56

TEMP. CONSTRUCTION LIMITS

GATE

2 GRANITE STEPS

GRANITE CROSSWALK

STA. 15+17.44 = STA. 200+00.00

STA. 15+16.5, 28.0' RT. TO STA. 16+21.0, 28.0' RT. INSTALL PEDESTRIAN FENCE (106LF) WITH 4' CENTERED AT STA. 16+13.

ANDREW MOLLOY

ROBERT W. PATTERSON

XIONG WEI HUANG

JON A. LUND

STA. 11+00.00 MATCH EXISTING SECTION

STA. 10+00.00 MATCH EXISTING STRIPING LIMIT OF WORK

EXISTING CONSTRUCTION & MAINTENANCE EASEMENT LIMITS

TO FARMINGDALE

9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00

N19°3'45.8"E

N20°5'40.5"E

STA. 11+25.00 BEGIN PROJECT 1862(200) BEGIN FULL DEPTH RECONSTRUCTION

PI 10+00.00
Δ = 01°01'54.72"

REM CB

PLUG AND FILL

REMOVE AND RESET 120 LF POST AND RAIL FENCE

PLUG

54" CMP

TEMPORARY CONSTRUCTION LIMITS

STA. 11+73.56 = STA. 100+00.00

LIMIT OF CLEARING

54" OPT III PIPE (BY OTHERS)

STATE OF MAINE
DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY
BUREAU OF PARKS AND LANDS

PLUG AND FILL (THIS CONTRACT)

TEMP. 18" OPT III PIPE (BY OTHERS)

REMOVED CB (BY OTHERS)

REMOVED (BY OTHERS)

CB (BY OTHERS)

54" RCP - CLASS III (BY OTHERS)

REPLACE 3" HMA PAVEMENT AND BITUMNOUS CURB AND PLACE LOAM AND SEED IN AREA DISTURBED UNDER PROJECT WIN 18622.10.

DWF = DETECTABLE WARNING FIELD
R.D. = CONNECT ROOF DRAIN

OLD CONCRETE SIGN BASE WITH I-BEAM

ABANDONED 15" VC

3'X4' SD

15 IN OAK

24 IN PINE

30 IN OAK

24 IN OAK

JB IN ROUND GRANITE POST

COFFIN ENG 1292

12" ASH

4" ASH

16" ASH

36" CMP

ELM

16" ELM TWIN

HIGH WATER MARK

BOAT RAMP

BOAT LAUNCH PARKING

MAPLE HILL FARM

BIKE LANE ENDS

3 IN MAPLE

24 IN PINE

JAPANESE MAPLE

PARKING

RESTROOM

PAVED PARKING LOT

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

	DATE	BY
SIGNATURE		
7960	1-18	JLE
P.E. NUMBER	1-18	
1/12/18		
DATE		

	ERNIE MARTIN
PROJ. MANAGER	
DESIGN-DETAILED	ALC
CHECKED-REVIEWED	ALC
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HALLOWELL
WATER STREET

PLANS

SHEET NUMBER

19

OF 172

Filename: ...\019_HDPlan_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\020_HDPlan_02.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES
JAMESON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

	DATE	BY
DESIGN-DETAILED	1-18	JLE
CHECKED-REVIEWED	1-18	ALG
DESIGN2-DETAILED2		ALG
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER ERNIE MARTIN
SIGNATURE
P.E. NUMBER 7960
1/12/18
DATE

HALLOWELL
WATER STREET
PLANS

SHEET NUMBER
20
OF 172

DWF = DETECTABLE WARNING FIELD
R.D. = CONNECT ROOF DRAIN

DWF = DETECTABLE WARNING FIELD
R.D. = CONNECT ROOF DRAIN

REMOVE LIGHT FOR DURATION OF DETOUR. TEMPORARILY REMOVE GRANITE CURB AND REPLACE WITH 4" BIT. CURB TIP DOWN. TO BE REPLACED TO PRE-CONSTRUCTION CONDITIONS AFTER DETOUR HAS ENDED. TRIM BUT RETAIN ADJACENT TREES.

TEMPORARY BUMP-OUT REMOVAL TO BE PAVED WITH FULL DEPTH PAVEMENT BEFORE TRAFFIC DETOUR TO SECOND STREET AND TO BE REPLACED TO PRE-CONSTRUCTION CONDITIONS AFTER DETOUR HAS ENDED.

TEMP. 8' BIT. CURB TIPDOWN

SIGN FOR DURATION OF DETOUR.
REMOVE GRANITE CURB AND
4" BIT. CURB AND WIDENED TRAVELWAY.
CED TO PRE-CONSTRUCTION CONDITIONS
AFTER DETOUR HAS ENDED.

SECOND STREET
913+00
914+00
N15°36'45.4"E
POT STA. 914+23.35 =
STA. 702+13.16
90°0'0.5"
SECOND STREET
WINTHROP STREET
N74°14'45"W
701+00
N15°57'12"W
PC 700+85.82
STA. 24+22.26 =
STA. 700+00.00
POT STA. 25+18.35 =
STA. 800+00.00
92°37'45.5"
N4°53'30.4"E
WATER STREET - RTE 27/201
FRONT STREET
PC 800+60.00
PT 801+27.52
N87°28'44.0"W
PT 701+23.37
P.C. 27+59.53

CURVE DATA
PI = 701+04.60
D = 4°35'01.2"
Δ = 1°43'16.4" Rt.
R = 1250.00'
L = 37.55'
T = 18.78'
E = 0.14'

CURVE DATA
PI = 800+97.48
D = 91°40'23.7"
Δ = 61°54'16.8" Rt.
R = 62.50'
L = 67.53'
T = 37.48'
E = 10.38'

CURVE DATA
PI = 29+37.38
D = 7°09'43.1"
Δ = 25°04'00.9" Rt.
R = 800.00'
L = 350.00'
T = 177.85'
E = 19.53'

STA. 700+50.00
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION

INTERCEPT EXIST. 6" CELLAR DRAIN
MATCH EXISTING WALKS
INTERCEPT EXISTING PIPE
REMOVE CB
PLUG
22 LF FLUSH GRANITE
12" RCP CL III
12" TYPE 'C' UD
REMOVE
REM CB
BOLLARD(4) SEE SPECIAL PROVISION ITEM 841.48
20 LF FLUSH GRANITE
ALTER CB TO MH
PIPE TO BE ABANDONED
15" RCP CL III
TEMPORARY CONST. LIMITS
DRAINAGE EASEMENT
RESET STONES AS NECESSARY. PAYMENT USING 'APPROPRIATE HOURLY EQUIPMENT ITEMS.
EXISTING WALL TO REMAIN UNDISTURBED
INSTALL 6" CELLAR DRAIN CONNECTION
ADD GRANITE STEP
INSTALL 6" CELLAR DRAIN CONNECTION
INTERCEPT EXISTING PIPE WITH 12" OPT III
INSTALL 6" CELLAR DRAIN CONNECTION
STA. 29+83 MATCH EXISTING SIDEWALK
STA. 29+75.00 MATCH EXISTING SECTION
POLE #33S
INSTALL GRANITE STEPS
POLE CMP 35
POLE CMP R 5
6" HMA
STA. 800+55.00 MATCH EXISTING SECTION
RECYCLED GRANITE CURB RETAINING WALL WITH CEDAR RAIL FENCE TO MATCH RAIL TRAIL FENCE STYLE
(10) 6' CONC. WHEELSTOP (TYP.) PAY AS ITEM 609.19
STA. 29+25.00 END PROJECT 1862(200) END FULL DEPTH RECONSTRUCTION
STA. 30+75 MATCH EXISTING WALK LIMIT OF WORK
10' HMA WALK
TO AUGUSTA

5.5' SIDEWALK
6' TYPE 'B' UD
6.5' SW
5' SW
RVAR SIDEWALK
REM CB
INSTALL 6" CELLAR DRAIN CONNECTION
EXISTING SLOPE EASEMENT
SLOPE EASEMENT LIMITS
RAIL TRAIL
BICYCLE

HEALING FOCUS, LLC
GARY P. VIOLETTE, TRUSTEE
VIOLETTE REVOCABLE TRUST
TERRY L. BERRY
JANET MERRILL
JOHN MERRILL
BLUE MARBLE GROUP, INC.
WILSON LANE
TERRY L. BERRY
SJSA HOUSING, LLC
SJSA HOUSING, LLC
CITY OF HALLOWELL
CITY OF HALLOWELL
FIREHOUSE CONDOMINIUM ASSOCIATION
VIOLETTE PROPERTIES, LLC
STONE DERRICK
WEDISH FISH, LLC

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		1-18
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

PLANS

SHEET NUMBER
21
OF 172

Filename: ...\021_HDPlan_03.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\022_HDPlan_04.dgn Division: HIGHWAY Username: common Date:1/22/2018

DWF = DETECTABLE WARNING FIELD
R.D. = CONNECT ROOF DRAIN

CHESTNUT STREET
SUMMER STREET
SECOND STREET
ACADEMY STREET
GOWS LANE
TEMPLE STREET
GROVE STREET

BARBARA A. ROHRBAUGH
REBECCA J. KAUFMAN
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
RAILROAD
OLD SOUTH CONGREGATIONAL CHURCH, HALLOWELL, MAINE
MICHAEL COLLINS
SHANNAN COLLINS
MICHAEL T. BARDEN
ANDREA M. LAPOINTE
CARMEN LAPIERRE
ROLAND LAPIERRE
CHARLES W. UNDERWOOD
THERESA M. UNDERWOOD
FRED M. KNEE
MERCEDES R. KNEE
JUSTIN C. UNDERWOOD
COTTON MILL ASSOCIATES LIMITED PARTNERSHIP
f/k/a COTTON MILL ASSOCIATES
CITY OF HALLOWELL
WENDY LARSON

36" OPT III
INSTALL 6" CELLAR DRAIN CONNECTION
5.5' SIDEWALK
REMOVE CB
36" RCP. CL. V
15" OPT III PIPE
CONNECT TO EXISTING
POLE NET&T 17S
PLUG AND FILL
12" OPT III PIPE
INLET DRAINAGE STRUCTURE STA. 902+93± LT.
MATCH EXISTING PAVED WALK
POT STA. 901+97.06 = STA. 103+07.53
18" TYPE "C" UD
12" TYPE "C" UD
CELLAR DRAIN CONNECTION
MATCH TO EXISTING STONE CULVERT INVERT DEPTH. PLUG STONE CULVERT AND LEAVE A 18" OUTLET PIPE.
POT STA. 905+20.60 = STA. 203+30.83
PI 907+55.61
Δ = 01°02'40.03" LT.
STA. 907+65
BEGIN 1.5" MILL AND HMA OVERLAY
MATCH EXISTING SECTION
87°15'17.3"
N16°33'28.2"E
N15°43'31.2"E
N76°16'45"W
93°0'16.3"
91°15'17.3"
STA. 901+11
BEGIN 1.5" MILL AND HMA OVERLAY
MATCH EXISTING SECTION
POT STA. 901+26.65 = STA. 1000+00.00
PLUG AND FILL
SHORTEN SIDEWALK 8 LF FOR TEMPORARY DETOUR
PI 903+73.96
Δ = 00°49'57.0 RT.
STA. 903+75
END 1.5" MILL AND HMA OVERLAY
MATCH EXISTING SECTION
PI 101+00.00
Δ = 00°56'24.81" LT.
N23°11'17"W
N72°46.9"W
N76°11'14.5"W
STA. 100+60
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION
BEGIN 1.5" MILL AND OVERLAY
INLET DRAINAGE STRUCTURE STA. 12+47± LT.
CONSTRUCT APPROX. 17.5'X4' CONCRETE WALK. MATCH EXISTING WALK
GRADE TO AVOID DISTURBING EXISTING SIGN.
PC 14+60.35
12" OPT III
STA. 201+00.00
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION
INLET DRAINAGE STRUCTURE STA. 200+76± RT.
PLUG
24" OPT
12" OP
REMOVE
STONE BOX DRAIN (INLET LOC.)
GUTTER DRAIN
SIN WIDE GUTTER DRAIN
NO INV VISIBLE
FLOW CTL
GREASE TRAP
POLE 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1862(200)
WIN 18622.00
HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

BY	DATE
JLE	1-18
	1-18

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN
DESIGN-DETAILED	ALG
CHECKED-REVIEWED	ALG
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HALLOWELL
WATER STREET
PLANS

SHEET NUMBER
22
OF 172

DWF = DETECTABLE WARNING FIELD
R.D. = CONNECT ROOF DRAIN

STA. 3+98.9
MATCH EXISTING SECTION

STA. 0+22.1
MATCH EXISTING SECTION

0+00 1+00 2+00 3+00 4+00 4+35

N14°42'59.8"E

TEMPORARY GRAVEL PARKING AREA

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
RAILROAD

14' 45° 19.5' 6' 17.1' 12' 23' 12.7' TYP.

REMOVE EXISTING PLATFORM.
PAYMENT INCIDENTAL TO
APPROPRIATE HOURLY ITEMS.

8' X 6" X 6" PRESSURE TREATED TIMBER BLOCKS(23) WITH 36" X #4 REBAR PINS AT 48" OC. PAYMENT FOR PROVIDING AND PINNING BLOCKS SHALL BE MADE UNDER ITEM 606.47 - SINGLE WOOD POST.

CURVE DATA
TEMPORARY PARKING
PI = 3+40.24
D = 3°34'59.6"
Δ = 6°46'27.2" Rt.
R = 1599.00'
L = 189.05'
T = 94.64'
E = 2.80'

PC 2+45.60

NOTE: AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE TEMPORARY GRAVEL PARKING AREA TO EXISTING CONDITIONS. REMOVAL OF GRAVEL, WOODEN POSTS, AND SEPARATION FABRIC SHALL BE PAID FOR UNDER APPROPRIATE LABOR AND EQUIPMENT RENTAL ITEMS. DISPOSAL OF MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

REMOVE LIGHT FOR DURATION OF DETOUR. TEMPORARILY REMOVE GRANITE CURB AND REPLACE WITH 4' BIT. CURB TIP DOWN. TO BE REPLACED TO PRE-CONSTRUCTION CONDITIONS AFTER DETOUR HAS ENDED. TRIM BUT RETAIN ADJACENT TREES.

PI 907+55.61
Δ = 01°02'40.03" LT.

UNION STREET

MILLING LIMIT 12" OPT III
POT STA. 907+98.63 =
STA. 303+20.83

REMOVE CB

PI STA. 910+49.65 =
STA. 402+83.25

CENTRAL STREET

PI 910+49.65
Δ = 00°05'57.23"

WINTHROP STREET

SECOND STREET

DUMMERS LANE

908+00 909+00 910+00 911+00 912+00 913+00 914+00

N15°30'48.1"E

88°41'2.9"

90°35'36.3"

N15°36'45.4"E

POT STA. 914+23.35 =
STA. 702+13.16

90°9'0.5"

N71°41'4.8"W

N75°57'31.2"W

S72°12'3.3"E

N7°34'39.1"W

N8°45'41.3"E

303+00 302+00 301+00 402+83 402+00 401+00 401+09 702+00 701+00

12" OPT III
REMOVE CB
PLUG
24" TYPE 'C' UD
12" TYPE 'C' UD
REMOVE CB
PLUG
12" OPT III
CITY OF HALLOWELL
CRONIN SQUARE CONDO ASSOCIATION

STA. 909+25
END 1.5" MILL AND HMA OVERLAY
MATCH EXISTING SECTION

INLET DRAINAGE STRUCTURE
STA. 301+81± RT.

REMOVE CB
INSTALL CELLAR DRAIN CONNECTION
HFP REALTY, L.L.C.

CURVE DATA
PI = 17+21.38
D = 2°55'45.2"
Δ = 15°12'10.1" Lt.
R = 1956.00'
L = 519.00'
T = 261.03'
E = 17.34'

DONALD H. HASTINGS

STA. 300+50
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION
WILL AND HMA OVERLAY

POLE 1/1

DAVID GLEASON
KIMBERLY I. GLEASON

INTERCEPT EXIST. 30" BRICK TEST PIT

INLET DRAINAGE STRUCTURE
STA. 19+98± LT.

PT 19+79.35

TEMP. CONST. LIMITS

SIDEWALK

36" TYPE 'C' UD

PC 400+58.85

STA. 20+50.48

STA. 400+00.00

LOAM & SEED

REM CB

12" OPT III
REM CB

STA. 401+00
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION

PT 401+02.26

LINDA L. BEAN

MARK B. KIMBALL

PATRICIA MURPHY
SHAWN MURPHY

CITY OF HALLOWELL

P.L.

CURVE DATA
PI = 400+80.61
D = 22°55'05.9"
Δ = 9°56'51.7" Rt.
R = 250.00'
L = 43.40'
T = 21.76'
E = 0.94'

JON LUND
PI 600+98.16
Δ = 11°02'42.75"

MAD BREW, LLC

INTERCEPT 4" CELLAR DRAIN CONNECTION

12" OPT III PIPE

FUT. R.D.

REM MH

BRIAN SKEHAN
JUDITH J. SKEHAN

YOUNGS REALTY, LLC

12" OPT III
INTERCEPT EXISTING PIPE

GARY P. VIOLETTE, TRUSTEE
VIOLETTE REVOCABLE TRUST

STA. 700+50.00
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION

INLET DRAINAGE STRUCTURE
STA. 22+96± LT.

MATCH EXISTING WALKS

INTERCEPT EXIST. 6" CELLAR DRAIN

INTERCEPT EXISTING PIPE

REMOVE CB

HEALING FOCUS, LLC

REMOVE STOP SIGN FOR DURATION OF DETOUR. TEMPORARILY REMOVE GRANITE CURB AND REPLACE WITH BIT. CURB AND WIDENED TRAVELWAY. TO BE REPLACED TO PRE-CONSTRUCTION CONDITIONS AFTER DETOUR HAS ENDED. ADDING A DWF

PT 701+23.37

FIREHOUSE CONDOMINIUM

PC 700+85.82

STA. 24+22.26
STA. 700+00.0

TEMP. 8' B
CURB TIE

22 LF FLUSH GRANITE CURB

12" RCP CL III

REMOVE

12" TYPE 'C' UD

80°51'1.7"

23+00 24+00

CITY OF HALLOWELL

granite steps

retaining wall

12" CLAY

12" MAPLE

10" POPLAR

2HR PARKING

ABANDONED TEL

8" GAS

8 IN PVC

12 HR. PARKING

BUSINESS STREET

PAVEMENT CUT

APPROX. LOC. 14'-4" TEL

APPROX. LOC. 12'-4"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER
STATE OF MAINE

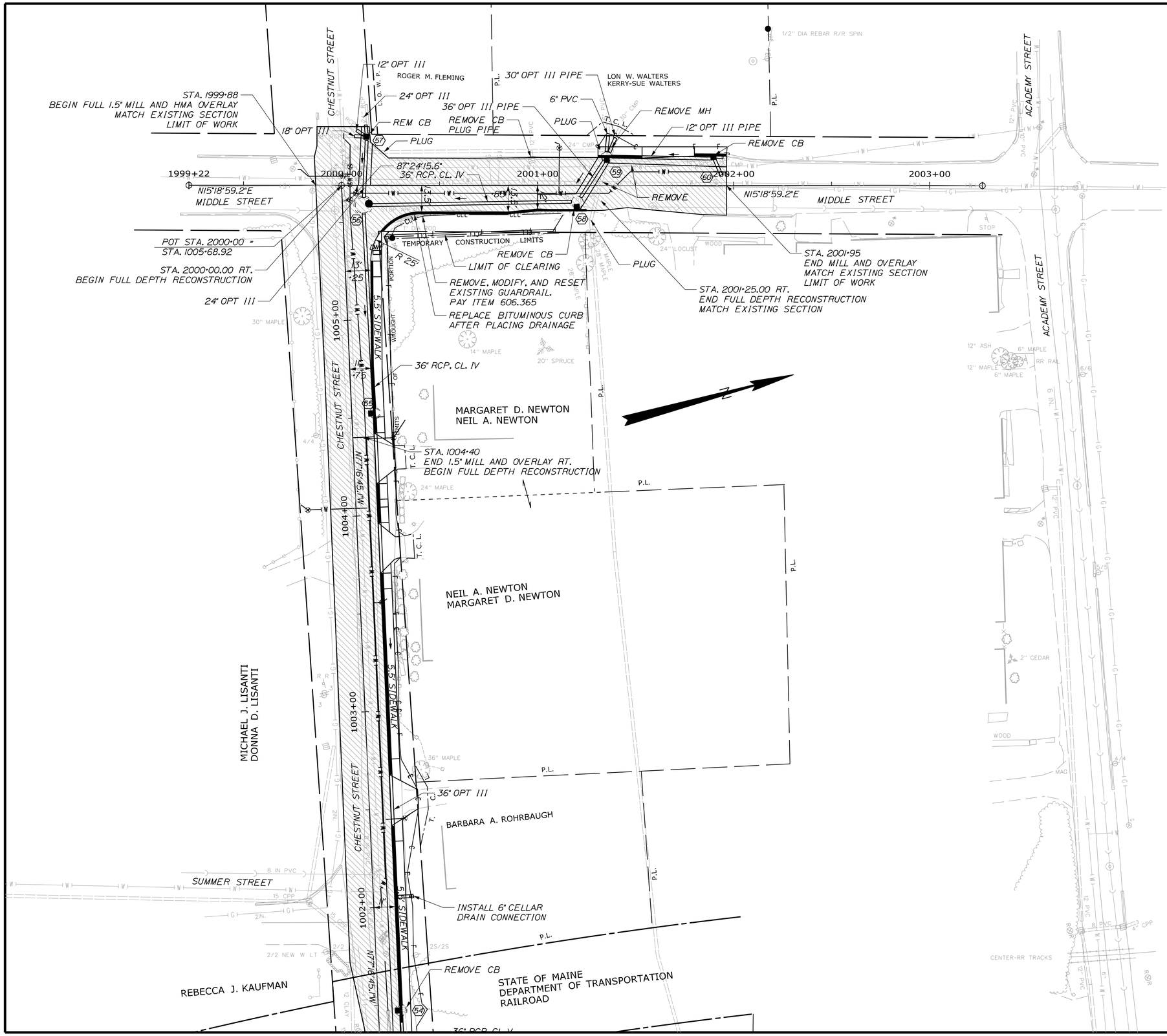
SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	LED2	
DESIGN3-DETAILED3	LED3	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET
PLANS

SHEET NUMBER
23
OF 172

Usermame: common Date:1/22/2018
Division: HIGHWAY
Filename: ...\023_HDPlan_05.dgn



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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

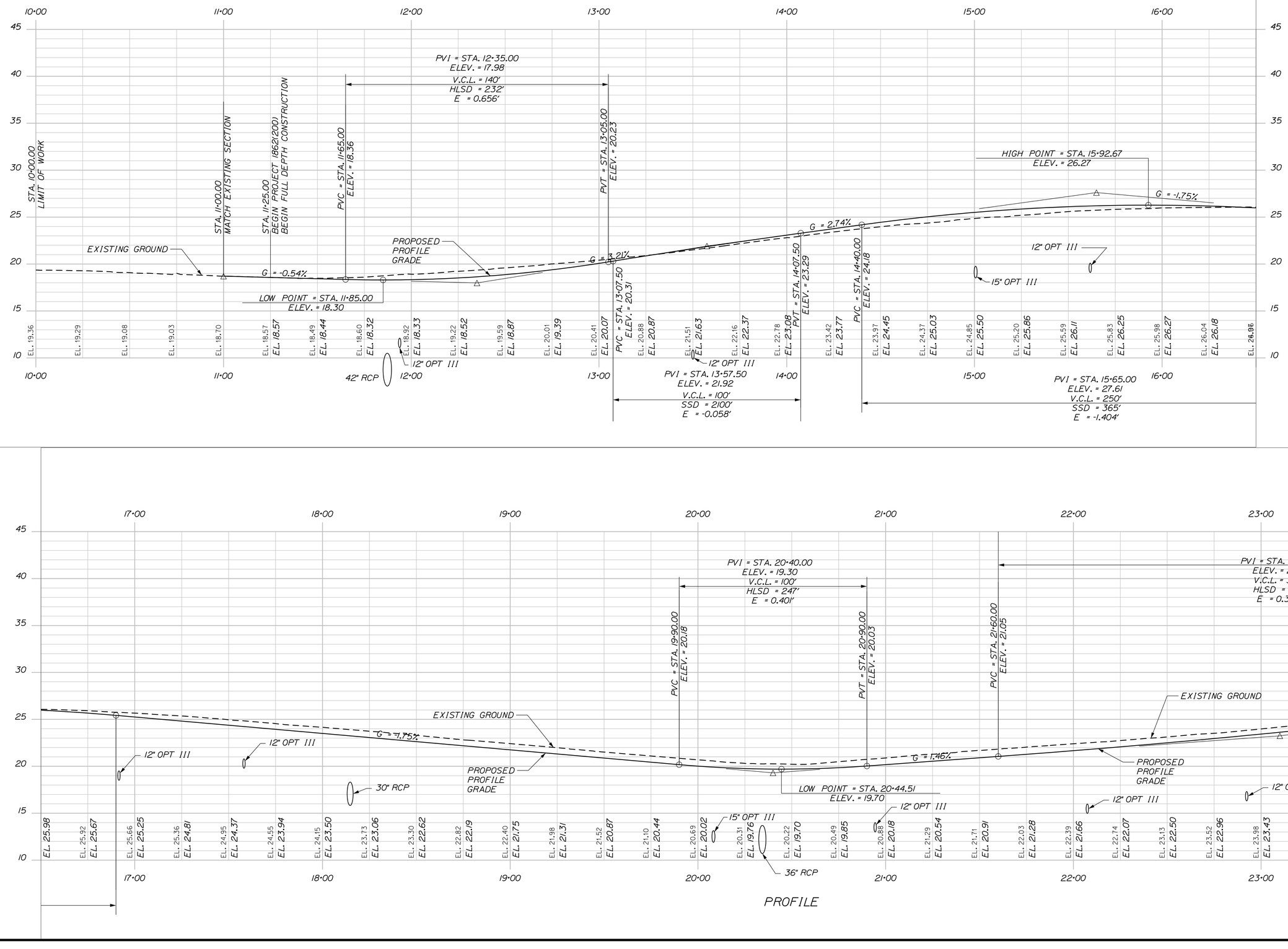
PLANS

SHEET NUMBER

24

OF 172

Filename: ...\025_Profile_01.dgn Division: HIGHWAY Username: common Date:1/22/2018



PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2	ALC	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

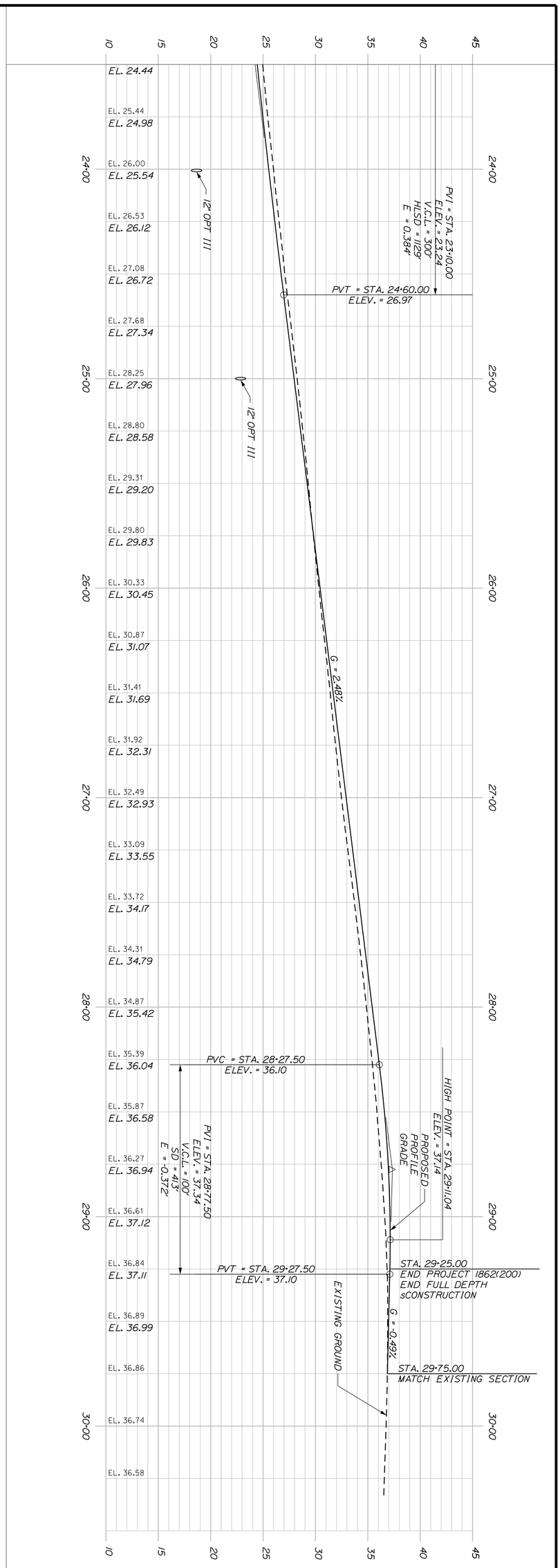
HALLOWELL
WATER STREET

PROFILE

SHEET NUMBER

25

OF 172



SHEET NUMBER 26 OF 172

HALLOWELL
WATER STREET

PROFILE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

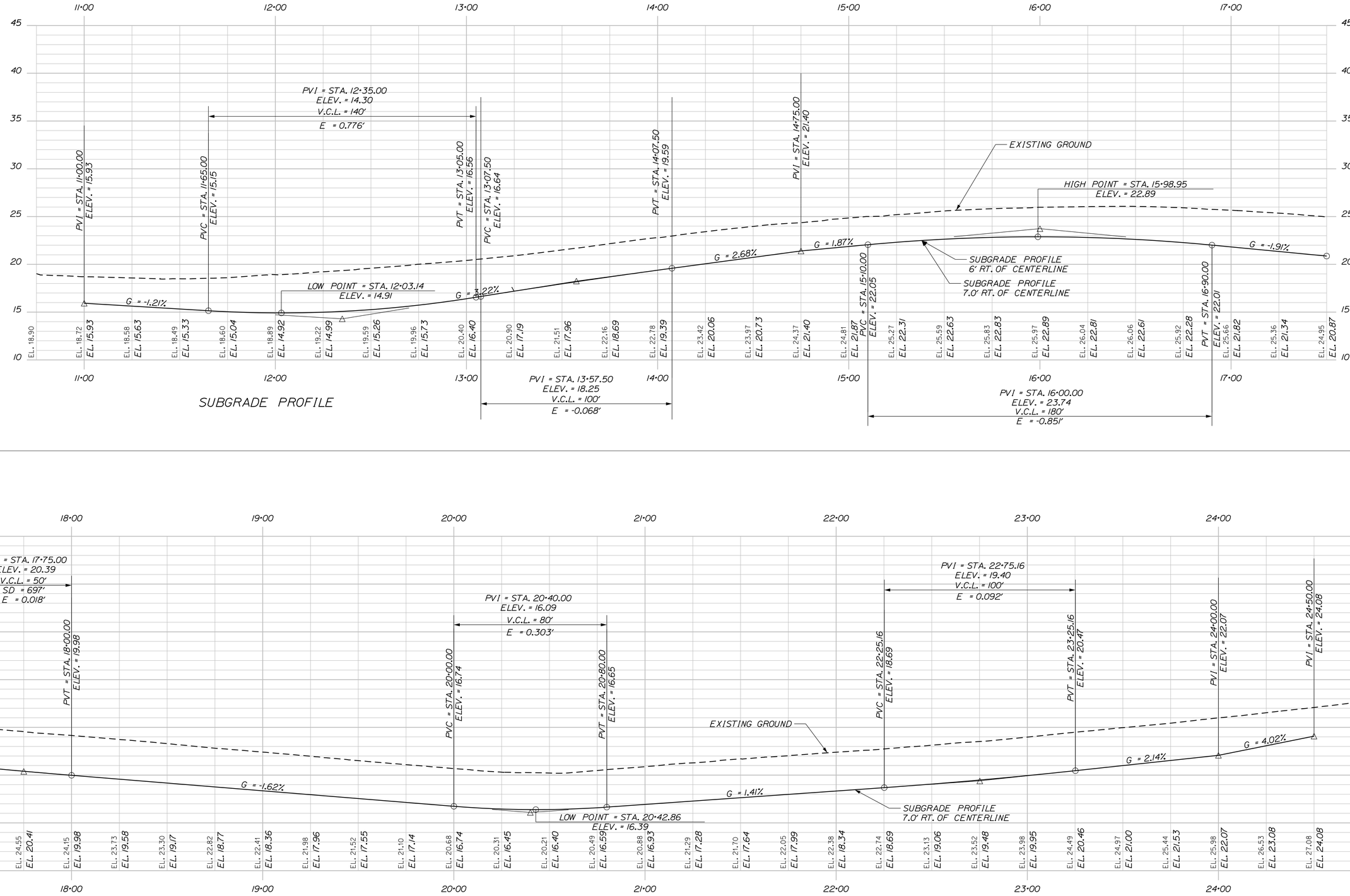
STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED
PROFESSIONAL ENGINEER

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG	ALG	1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

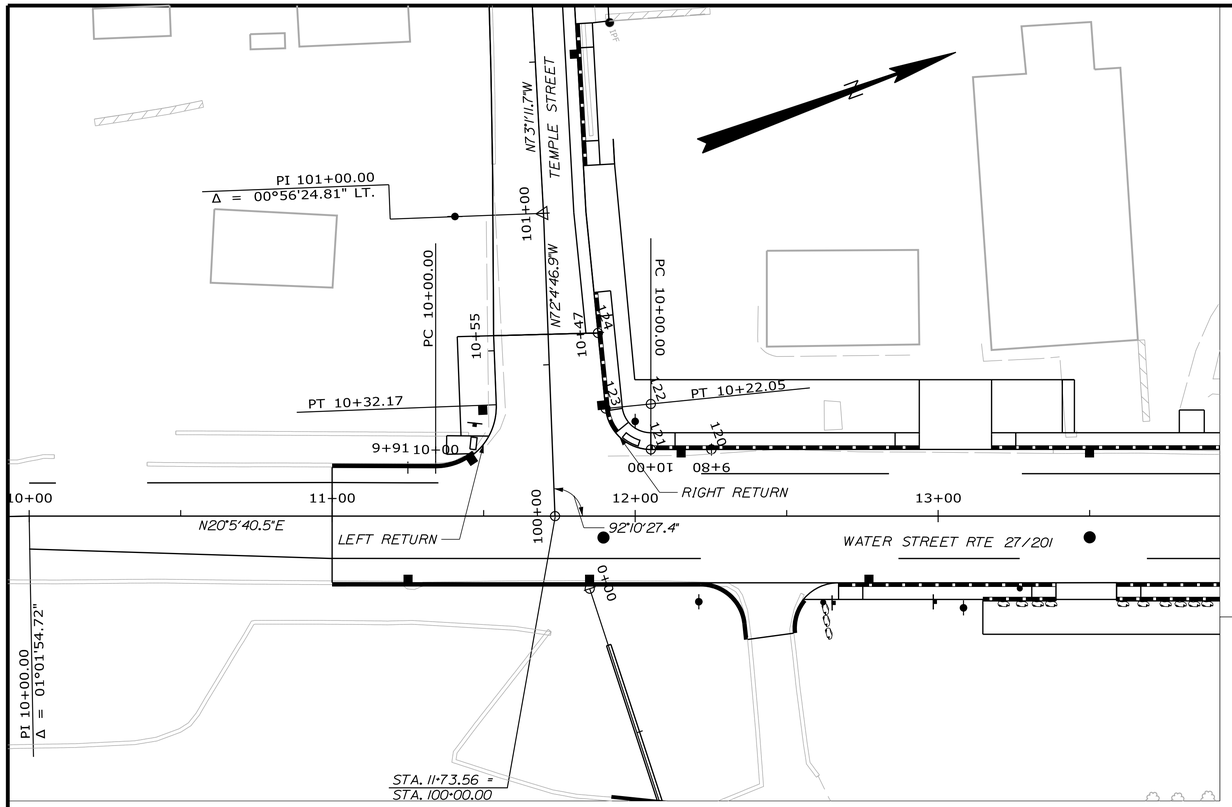
SUBGRADE PROFILE

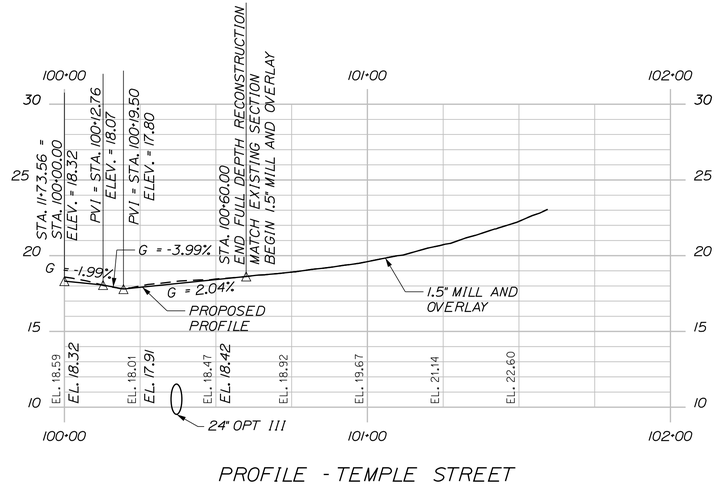
SHEET NUMBER

27

OF 172

Filename: ...\027_Profile_03.dgn Division: HIGHWAY Username: common Date:1/22/2018

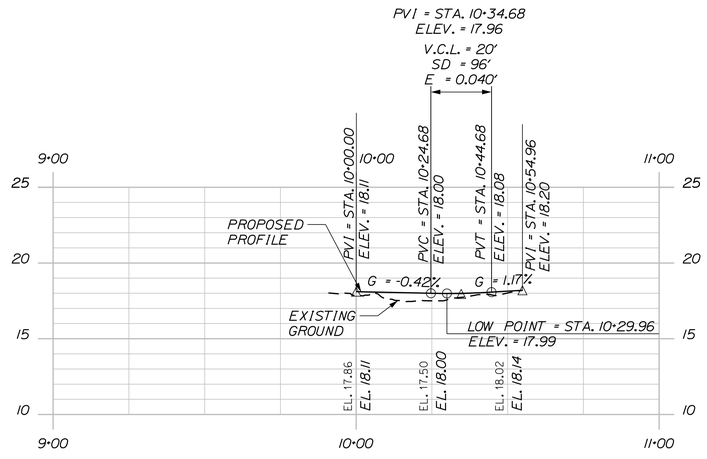




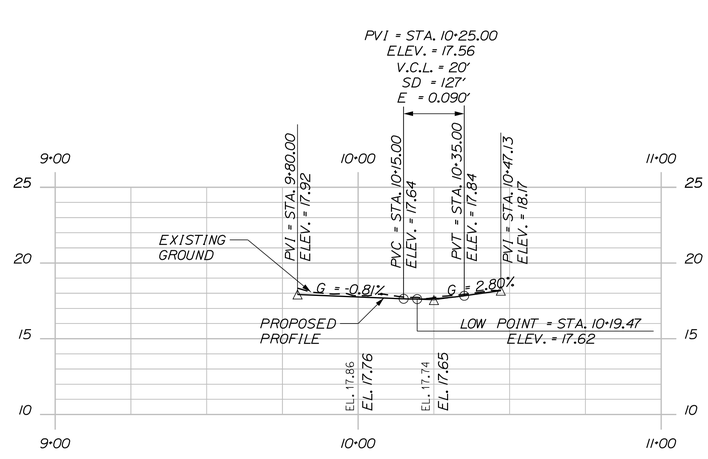
PROFILE - TEMPLE STREET

Horizontal Alignment Name: Temple

STATION	NORTHING	EASTING
POB (100) 100+00.00	529162.08287	1137190.79860
PI (101) 101+00.00	529192.85224	1137095.65005
Tangent Direction: N 72°04'46.9" W		
Tangent Length: 100.00		
POE (102) 103+07.53	529253.45965	1136897.16527
Tangent Direction: N 73°01'11.7" W		
Tangent Length: 207.53		



PROFILE - LEFT RETURN



PROFILE - RIGHT RETURN

Horizontal Alignment Name: Temple Left

STATION	NORTHING	EASTING
POB (110) 9+90.85	529121.98636	1137159.09312
PC (111) 10+00.00	529130.58371	1137162.23838
Tangent Direction: N 20°05'40.5" E		
Tangent Length: 9.15		
PI ( ) 10+20.77	529150.09289	1137169.37564
CC (112)	529137.45513	1137143.45585
PT (113) 10+32.17	529156.48484	1137149.60972
Radius: 20.00		
Delta: 92°10'27.4" Left		
Length: 32.17		
Tangent: 20.77		
External: 8.84		
POE (114) 10+54.96	529163.49685	1137127.92638
Tangent Direction: N 72°04'46.9" W		
Tangent Length: 22.79		

Horizontal Alignment Name: Temple Right

STATION	NORTHING	EASTING
POB (120) 9+80.00	529218.11805	1137187.87311
PC (121) 10+00.00	529199.33552	1137181.00169
Tangent Direction: S 20°05'40.5" W		
Tangent Length: 20.00		
PI ( ) 10+13.56	529186.60354	1137176.34381
CC (122)	529204.48908	1137166.91479
PT (123) 10+22.05	529189.95451	1137163.20722
Radius: 15.00		
Delta: 84°12'56.2" Right		
Length: 22.05		
Tangent: 13.56		
External: 5.22		
POE (124) 10+47.13	529196.15343	1137138.90597
Tangent Direction: N 75°41'23.2" W		
Tangent Length: 25.08		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON · No. 7960 · REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			1
REVISIONS 2			2
REVISIONS 3			3
REVISIONS 4			4
FIELD CHANGES			

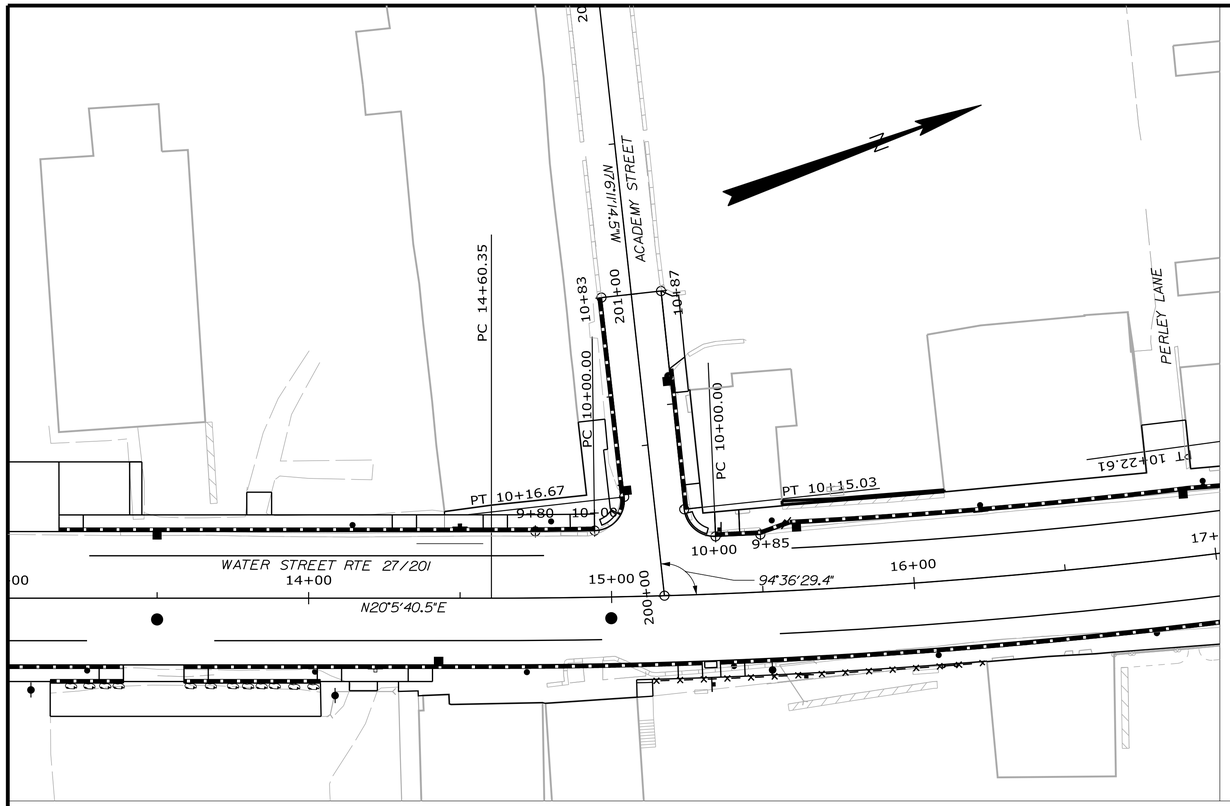
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

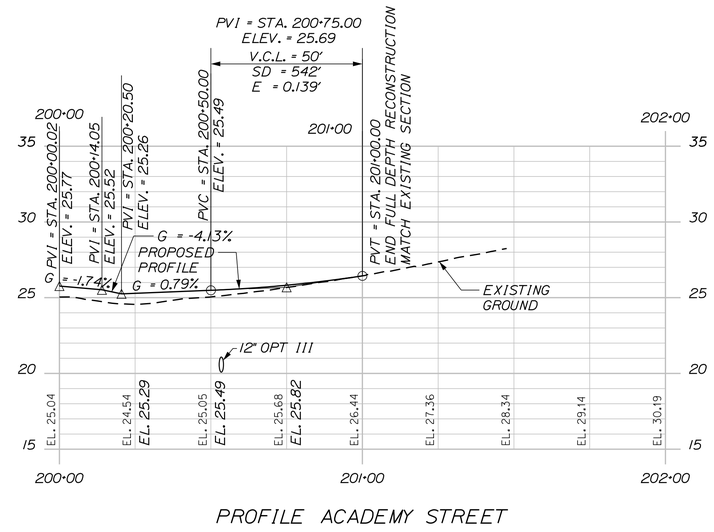
HALLOWELL
TEMPLE STREET

GEOMETRIC PLANS

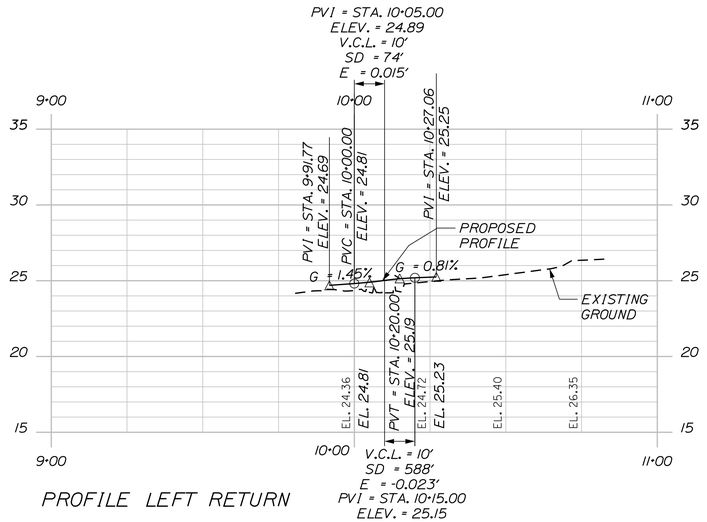
SHEET NUMBER
28
OF 172

Filename: ...\028_Geometry_01.dgn Division: HIGHWAY Username: common Date:1/22/2018

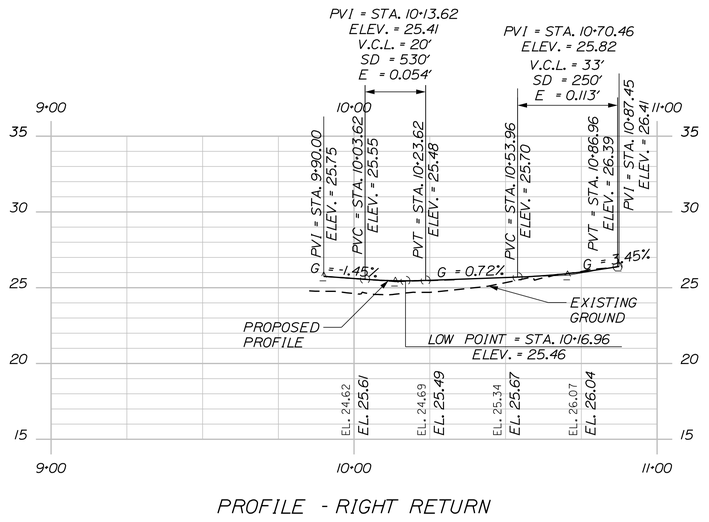




PROFILE ACADEMY STREET



PROFILE LEFT RETURN



PROFILE - RIGHT RETURN

Horizontal Alignment Name: Academy

	STATION	NORTHING	EASTING
POB	(200) 200+00.00	529485.31260	1137308.16262
POE	(201) 203+30.83	529564.29752	1136986.89945

Tangent Direction: N 76°11'14.5" W
Tangent Length: 330.83

Horizontal Alignment Name: Academy Left

	STATION	NORTHING	EASTING
POB	(210) 9+80.45	529452.59829	1137273.59779
PC	(211) 10+00.00	529471.04347	1137280.08459
PI	( ) 10+11.01	529481.44595	1137283.68396
CC	(214)	529474.31336	1137270.63431
PT	(212) 10+16.67	529484.03321	1137272.98474
POE	(213) 10+82.86	529499.59264	1137208.64109

Tangent Direction: N 19°22'32.7" E
Tangent Length: 19.55
Radius: 10.00
Delta: 95°29'31.1" Left
Length: 16.67
Tangent: 11.01
External: 4.87
Tangent Direction: N 76°24'21.0" W
Tangent Length: 66.20

Horizontal Alignment Name: Academy Right

	STATION	NORTHING	EASTING
POB	(220) 9+85.18	529521.99021	1137300.07033
PC	(221) 10+00.00	529507.87364	1137295.56852
PI	( ) 10+09.35	529498.98128	1137292.69521
CC	(224)	529510.94832	1137286.05294
PT	(222) 10+15.03	529501.24658	1137283.62888

Tangent Direction: S 17°41'15.4" W
Tangent Length: 14.82
Radius: 10.00
Delta: 86°07'18.6" Right
Length: 15.031
Tangent: 9.35
External: 3.69
Tangent Direction: N 75°58'17.1" W
Tangent Length: 72.42
POE (223) 10+87.46 529518.80281 1137213.36405

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG	ALG	1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

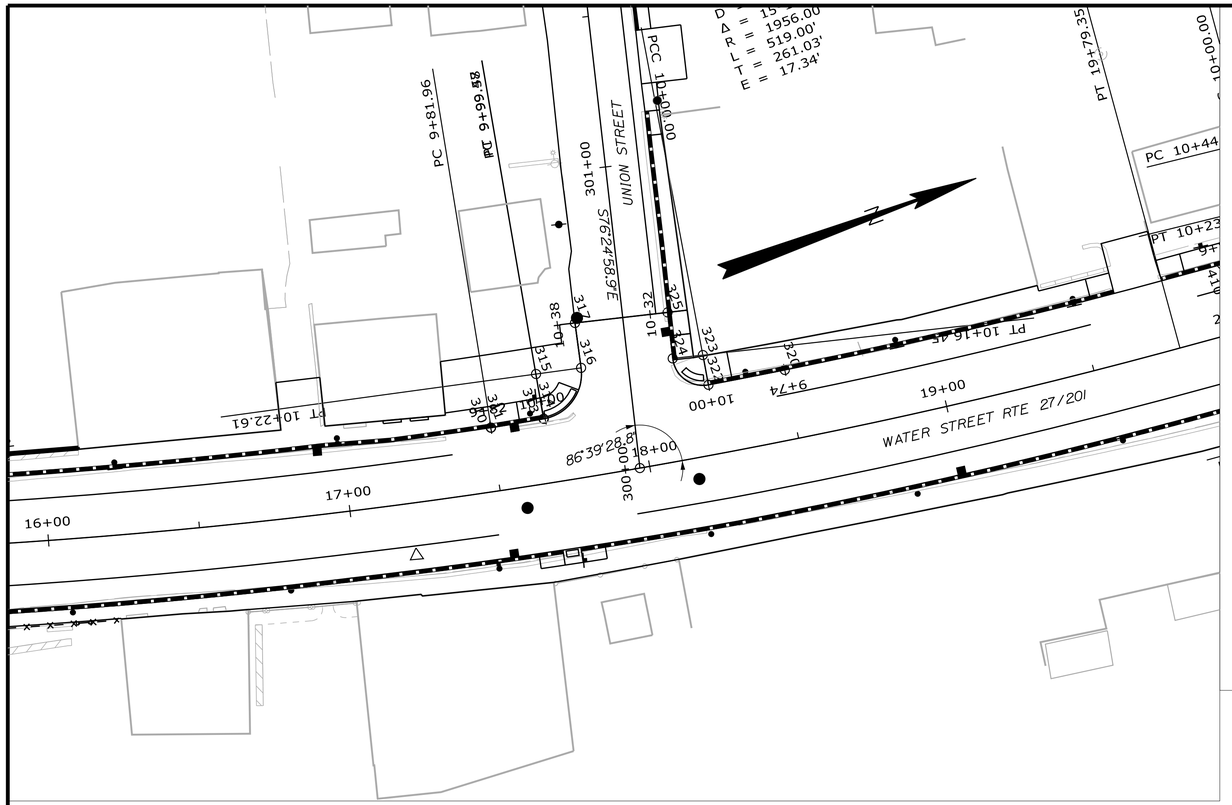
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

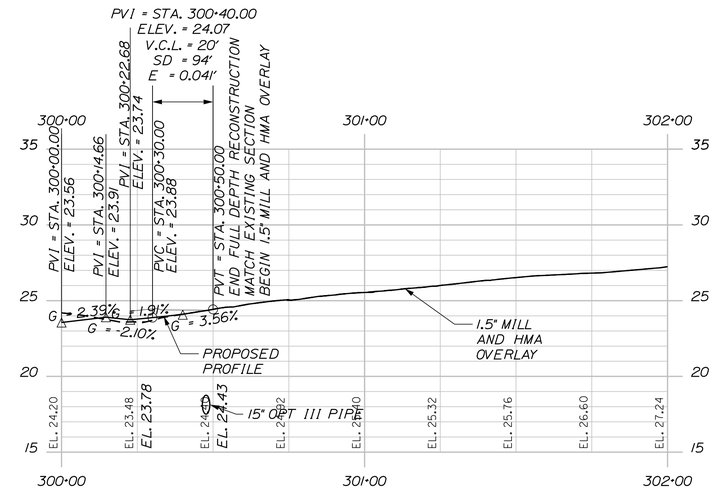
HALLOWELL
ACADEMY STREET

GEOMETRIC PLANS

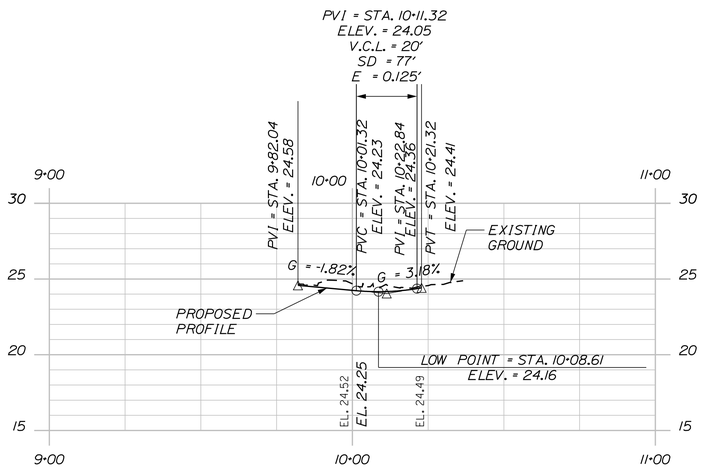
SHEET NUMBER
29
OF 172

Filename: ...\029_Geometry_02.dgn Division: HIGHWAY Username: common Date:1/22/2018

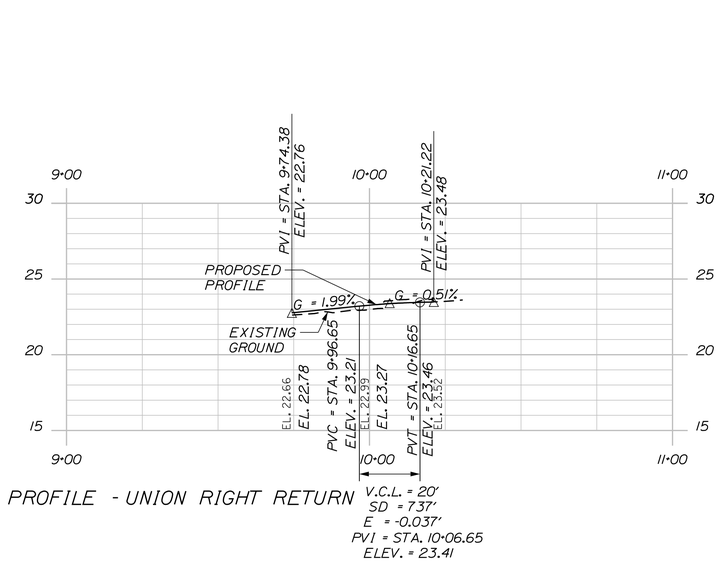




PROFILE - UNION STREET



PROFILE - UNION LEFT RETURN



PROFILE - UNION RIGHT RETURN

Horizontal Alignment Name: Union

	STATION	NORTHING	EASTING
POB	(300) 300+00.00	529755.66423	1137377.23470
POE	(301) 303+20.83	529831.01559	1137065.37972

Tangent Direction: N 76°24'58.9" W
Tangent Length: 320.8292

	STATION	NORTHING	EASTING
POB	(310) 9+81.84	529714.02388	1137347.81042
PC	(311) 9+81.95	529714.13692	1137347.83205

Tangent Direction: N 10°49'58.7" E
Tangent Length: 0.12
PI ( ) 9+90.71 529722.73594 1137349.47753
CC (312) 530076.93539 1135451.90606
PT (313) 9+99.46 529731.34953 1137351.04494
Radius: 1930.33
Delta: 0°31'11.0" Left
Length: 17.51
Tangent: 8.76
External: 0.02
PC (314) 9+99.58 529731.46098 1137351.06522
Tangent Direction: N 10°18'47.7" E
Tangent Length: 0.11
PI ( ) 10+14.06 529745.70958 1137353.65804
CC (315) 529734.14643 1137336.30757
PT (316) 10+22.61 529748.80076 1137339.50919
Radius: 15.00
Delta: 87°59'20.9" Left
Length: 23.04
Tangent: 14.48
External: 5.85
POE (317) 10+37.56 529751.99072 1137324.90826
Tangent Direction: N 77°40'33.2" W
Tangent Length: 14.95

Horizontal Alignment Name: Union Right 1

	STATION	NORTHING	EASTING
PC	(320) 9+74.33	529811.69470	1137363.25696
PI	( ) 9+87.17	529799.00865	1137361.32008
CC	(321) 530103.44038		1135452.40023

PCC (322) 10+00.00 529786.34944 1137359.21494
Radius: 1933.00
Delta: 0°45'38.7" Right
Length: 25.67
Tangent: 12.83
External: 0.04
PI ( ) 10+10.77 529775.72078 1137357.44746
CC (323) 529787.98984 1137349.35040
PT (324) 10+16.45 529778.27486 1137346.97994
Radius: 10.00
Delta: 94°16'14.6" Right
Length: 16.4533
Tangent: 10.77
External: 4.70
POE (325) 10+31.73 529781.89719 1137332.13435
Tangent Direction: N 76°17'15.9" W
Tangent Length: 15.28

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
UNION STREET

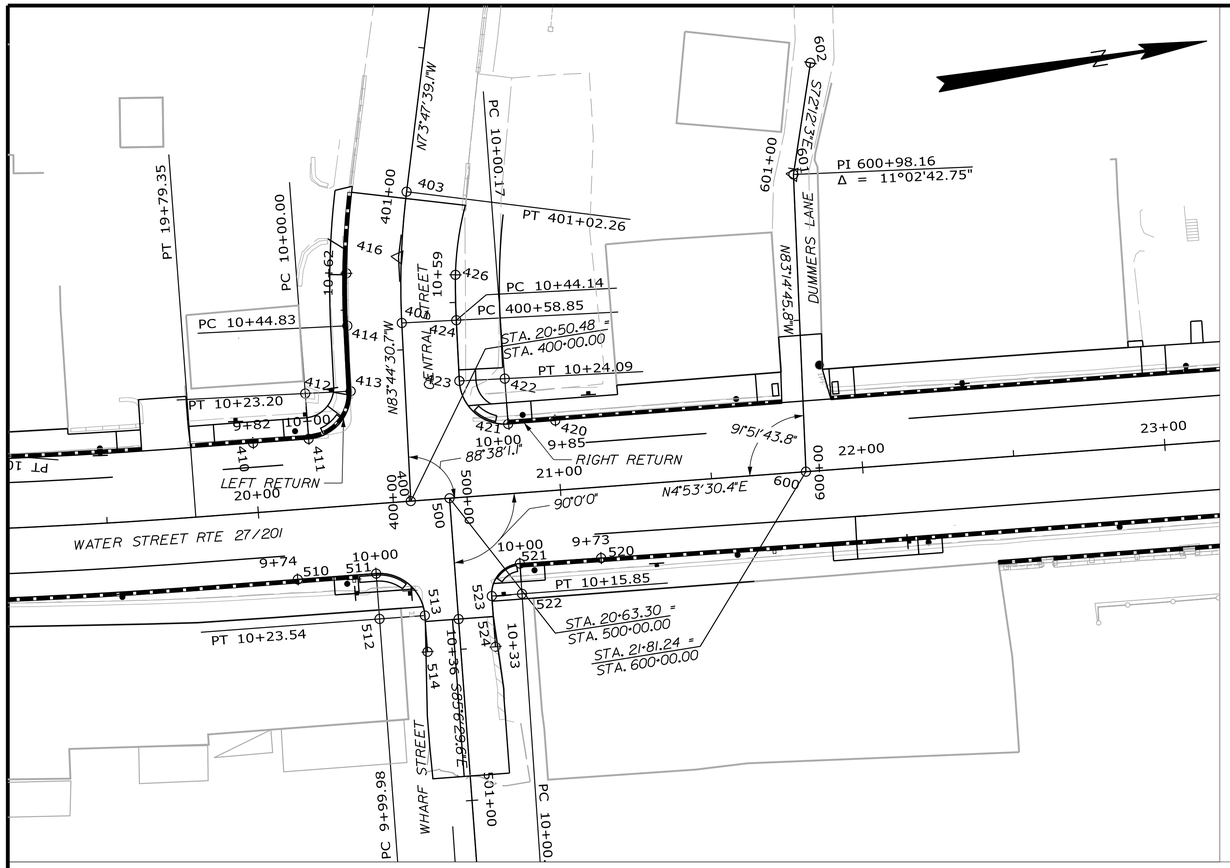
GEOMETRIC PLANS

SHEET NUMBER

30

OF 172

Filename: ...\030_Geometry_03.dgn Division: HIGHWAY Username: common Date:1/22/2018



Horizontal Alignment Name: Central

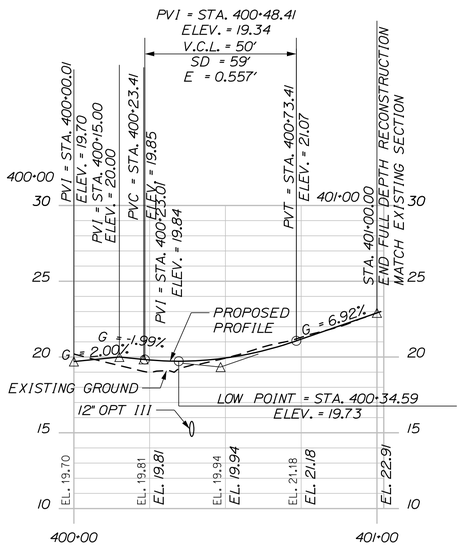
STATION	NORTHING	EASTING
POB (400) 400+00.00	530007.5I734	II37407.34I29
PC (40I) 400+58.85	530013.93293	II37348.83773
Tangent Direction: N 83°44'30.7" W		
Tangent Length: 58.85		
PI ( ) 400+80.6I	530016.30464	II37327.2I023
CC (402)	530262.44315	II37376.08974
PT (403) 40I+02.26	530022.37680	II37306.3I759
Radius: 250.00		
Delta: 9°56'5I.7" Right		
Degree of Curvature(Arc): 22°55'05.9"		
Length: 43.4I		
Tangent: 2I.76		
External: 0.95		
POE (404) 402+83.25	530072.88939	II37I32.5I804
Tangent Direction: N 73°47'39.I" W		
Tangent Length: I80.99		

Horizontal Alignment Name: Central Left

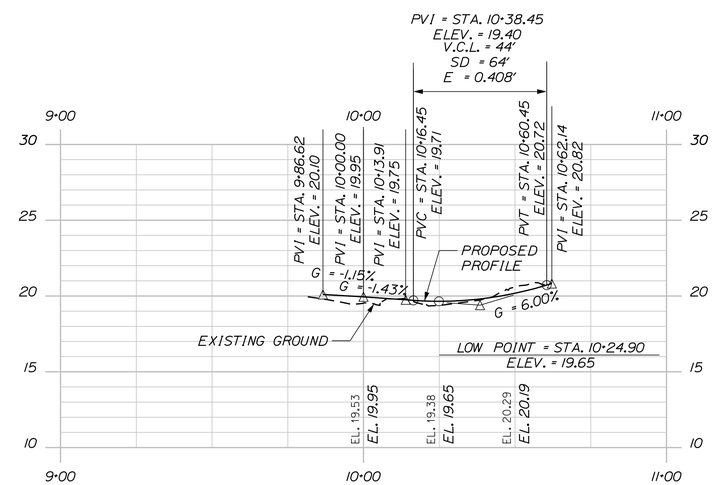
STATION	NORTHING	EASTING
POB (4I0) 9+8I.62	529959.I7977	II37380.I2020
PC (4II) I0+00.00	529977.49256	II7338I.68751
Tangent Direction: N 4°53'30.4" E		
Tangent Length: I8.38		
PI ( ) I0+I4.65	529992.08570	II37382.93648
CC (4I2)	529978.77I67	II37366.74215
PT (4I3) I0+23.20	529993.68229	II37368.37727
Radius: I5.00		
Delta: 88°38'0I.I" Left		
Length: 23.20		
Tangent: I4.65		
External: 5.97		
PC (4I4) I0+44.83	529996.04020	II37346.87558
Tangent Direction: N 83°44'30.7" W		
Tangent Length: 2I.6306		
PI ( ) I0+53.49	529996.98389	II37338.27006
CC (4I5)	530262.44315	II37376.08975
PT (4I6) I0+62.I4	529998.48I00	II37329.74339
Radius: 268.00		
Delta: 3°42'0I.2" Right		
Length: I7.3I		
Tangent: 8.66		
External: 0.I4		

Horizontal Alignment Name: Central Right

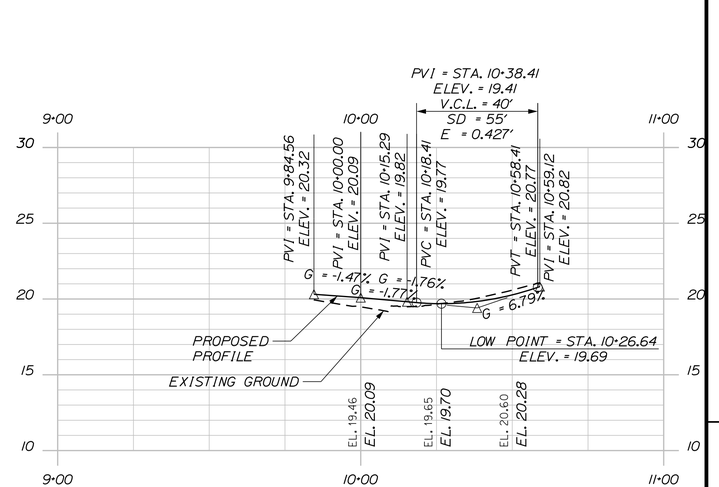
STATION	NORTHING	EASTING
POB (420) 9+84.56	530058.8I552	II37388.6476I
PC (42I) I0+00.I7	530043.27087	II7387.3I720
Tangent Direction: S 4°53'30.4" W		
Tangent Length: I5.60		
PI ( ) I0+I5.53	530027.96478	II37386.00722
CC (422)	530044.54998	II7372.37I84
PT (423) I0+24.09	530029.63936	II37370.73672
Radius: I5.00		
Delta: 9I°2I'58.8" Right		
Length: 23.92		
Tangent: I5.36		
External: 6.47		
PC (424) I0+44.I4	530031.82567	II37350.79989
Tangent Direction: N 83°44'30.7" W		
Tangent Length: 20.06		
PI ( ) I0+5I.64	530032.64260	II37343.35032
CC (425)	530262.44315	II37376.08973
PT (426) I0+59.I3	530033.9386I	II37335.96900
Radius: 232.00		
Delta: 3°42'0I.2" Right		
Length: I4.98		
Tangent: 7.49		
External: 0.I2		



PROFILE - CENTRAL STREET



PROFILE - CENTRAL LEFT



PROFILE - CENTRAL RIGHT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON · No. 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		P.E. NUMBER
1/12/18		DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

		DATE
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18

HALLOWELL
CENTRAL STREET

GEOMETRIC PLANS

SHEET NUMBER

31

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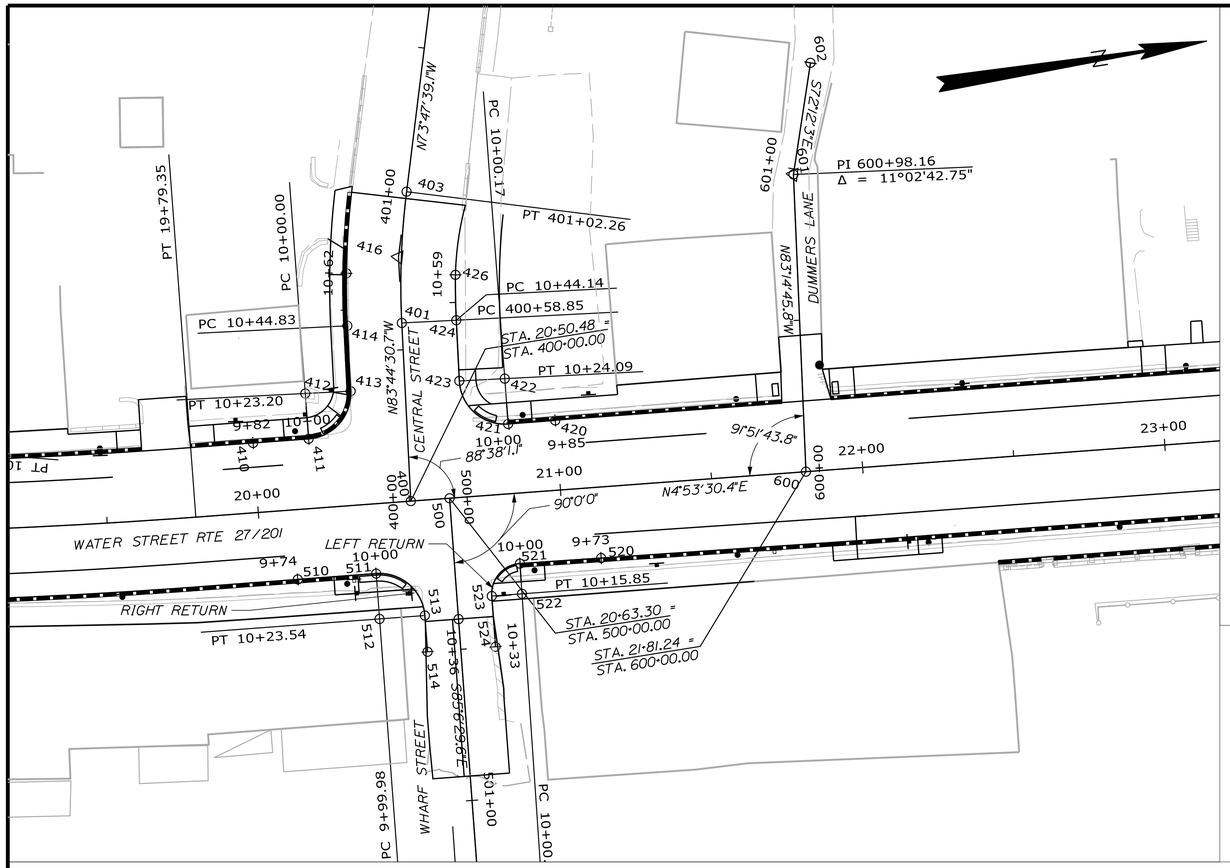
Filename: ...\031_Geometry_04.dgn Division: HIGHWAY Username: common Date:1/22/2018



Horizontal Alignment Name: Dummers Lane

STATION	NORTHING	EASTING
POB (600) 600+00.00	530137.79690	1137418.49137
PI (601) 600+98.16	530149.34085	1137321.01458
Tangent Direction: N 83°14'45.8" W		
Tangent Length: 98.16		
POE (602) 601+35.42	530160.73174	1137285.53432
Tangent Direction: N 72°12'03.0" W		
Tangent Length: 37.26		

Horizontal Alignment Name: Wharf

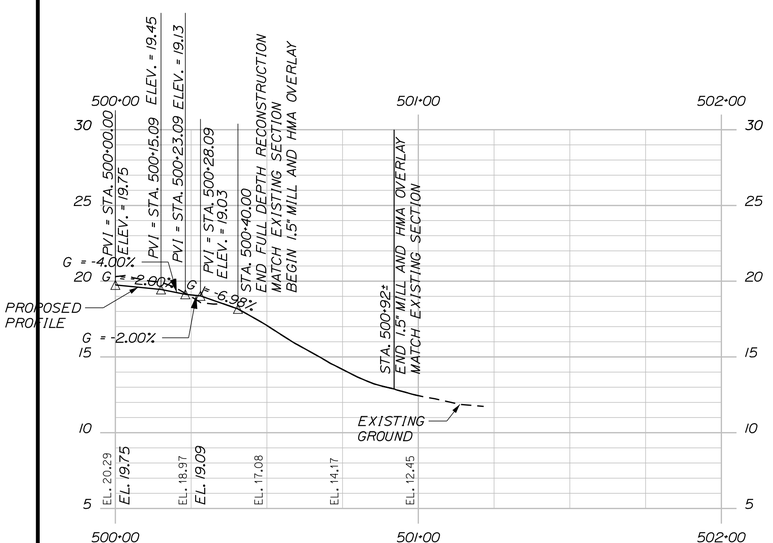
STATION	NORTHING	EASTING
POB (500) 500+00.00	530020.28766	1137408.43425
POE (501) 502+04.17	530002.87694	1137611.86425
Tangent Direction: S 85°06'29.6" E		
Tangent Length: 204.17		

Horizontal Alignment Name: Wharf Left

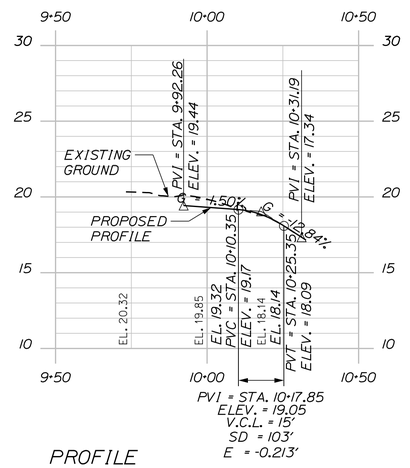
STATION	NORTHING	EASTING
POB (520) 9+73.22	530066.53818	1137435.88916
PC (521) 10+00.08	530039.79217	1137433.42043
Tangent Direction: S 5°16'25.0" W		
Tangent Length: 26.86		
PI ( ) 10+10.14	530029.77041	1137432.49539
CC (522)	530038.87305	1137443.37810
PT (523) 10+15.85	530028.90969	1137442.52288
Radius: 10.00		
Delta: 90°22'03.4" Left		
Length: 15.77		
Tangent: 10.06		
External: 4.19		
POE (524) 10+32.63	530027.47477	1137459.23984
Tangent Direction: S 85°05'38.3" E		
Tangent Length: 16.78		

Horizontal Alignment Name: Wharf Right

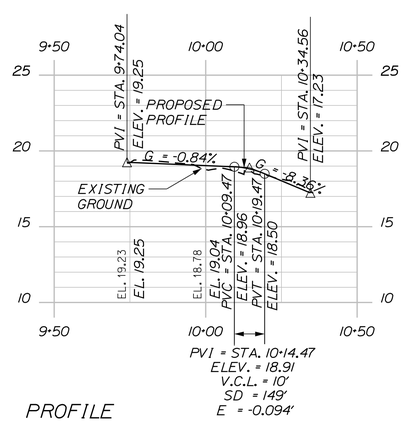
STATION	NORTHING	EASTING
POB (510) 9+74.04	529966.57810	1137426.92155
PC (511) 9+99.98	529992.42107	1137429.13335
Tangent Direction: N 4°53'30.4" E		
Tangent Length: 25.94		
PI ( ) 10+14.98	530007.36643	1137430.41246
CC (512)	529991.14195	1137444.07871
PT (513) 10+23.54	530006.08732	1137445.35782
Radius: 15.00		
Delta: 90°00'00.0" Right		
Length: 23.56		
Tangent: 15.00		
External: 6.21		
POE (514) 10+35.54	530005.06403	1137457.31411
Tangent Direction: S 85°06'29.5" E		
Tangent Length: 12.00		



PROFILE - WHARF STREET



PROFILE
WHARF RETURN LEFT



PROFILE
WHARF RETURN RIGHT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES J. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WHARF STREET

GEOMETRIC PLANS

SHEET NUMBER

32

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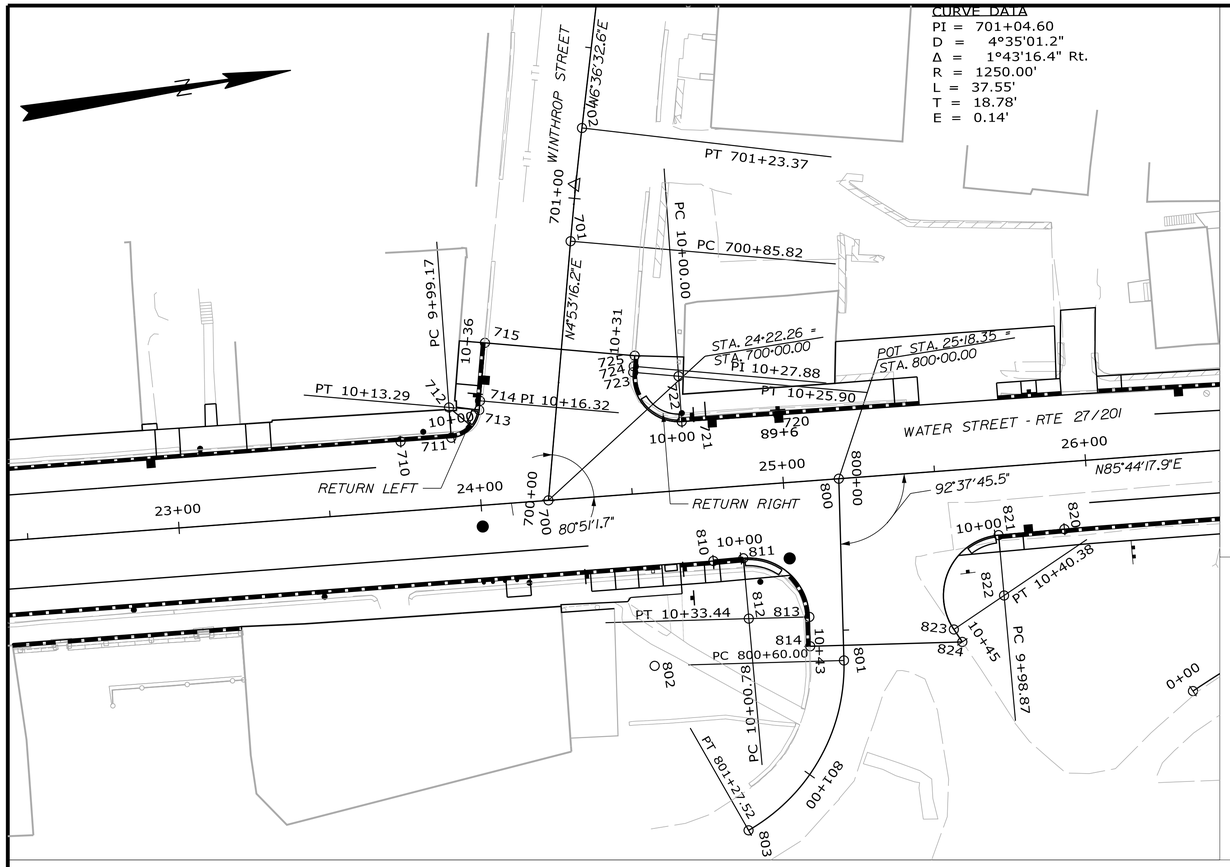
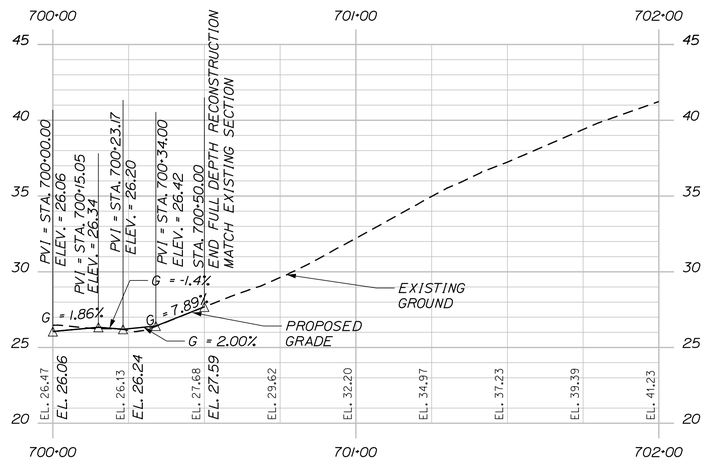
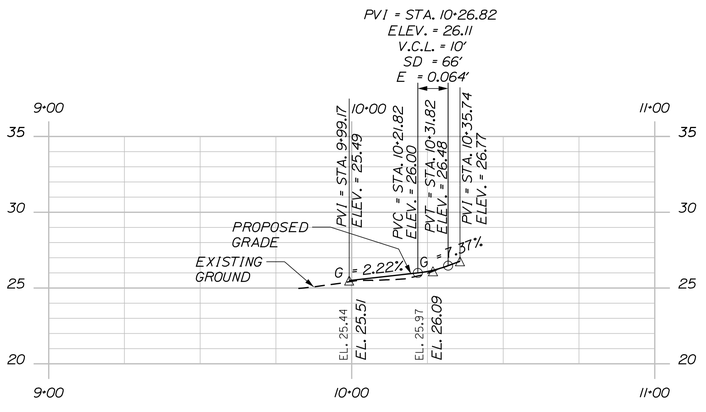
Filename: ...\032_Geometry_05.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\033_Geometry_06.dgn Division: HIGHWAY Username: common Date:1/22/2018

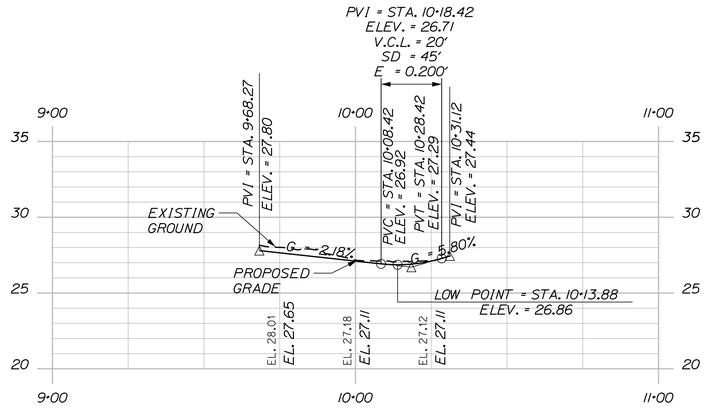




PROFILE - WINTHROP STREET



PROFILE - WINTHROP LEFT RETURN



PROFILE - WINTHROP RIGHT RETURN

Horizontal Alignment Name: Winthrop

STATION	NORTHING	EASTING
POB (700) 700+00.00	530377.93860	1137439.04410
PC (701) 700+85.82	530398.76107	1137355.78559

Tangent Direction: N 75°57'31.2" W
Tangent Length: 85.82

PC (701) 700+85.82	530398.76107	1137355.78559
PI ( ) 701+04.60	530403.31678	1137337.56963
CC (704)	531611.41232	1137659.06263
PT (702) 701+23.37	530408.41757	1137319.49872

Radius: 1250.00
Delta: 1°43'16.4" Right
Length: 37.55
Tangent: 18.78
External: 0.14

POE (703) 702+13.16	530432.80696	1137233.09287

Tangent Direction: N 74°14'14.8" W
Tangent Length: 89.78

Horizontal Alignment Name: Winthrop Left

STATION	NORTHING	EASTING
POB (710) 9+82.38	530332.84172	1137412.10037
PC (711) 9+99.17	530349.57191	1137413.53223

Tangent Direction: N 4°53'30.4" E
Tangent Length: 16.79

PI ( ) 10+07.69	530358.06207	1137414.25887
CC (712)	530350.42465	1137403.56866
PT (713) 10+13.29	530360.12669	1137405.99158

Radius: 10.00
Delta: 80°52'11.7" Left
Length: 14.11
Tangent: 8.52
External: 3.14

PI (714) 10+16.32	530360.86206	1137403.04696

Tangent Direction: N 75°58'41.3" W
Tangent Length: 3.04

POE (715) 10+35.54	530365.51929	1137384.39814

Tangent Direction: N 75°58'41.3" W
Tangent Length: 19.22

Horizontal Alignment Name: Winthrop Right

STATION	NORTHING	EASTING
POB (720) 9+68.06	530457.30853	1137423.25370
PC (721) 10+00.00	530425.49928	1137420.37131

Tangent Direction: S 5°10'39.8" W
Tangent Length: 31.94

PI ( ) 10+17.54	530408.03213	1137418.78852
CC (722)	530426.85296	1137405.43251
PT (723) 10+25.90	530412.30490	1137401.77823

Radius: 15.00
Delta: 98°55'21.1" Right
Length: 25.90
Tangent: 17.54
External: 8.08

PI (724) 10+27.88	530412.78865	1137399.85236

Tangent Direction: N 75°53'59.1" W
Tangent Length: 1.99

POE (725) 10+31.41	530413.64714	1137396.43464

Tangent Direction: N 75°53'59.1" W
Tangent Length: 3.52

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	P.E. NUMBER
			1/12/18
			DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG	ALG	1-18
DESIGN2-DETAILED2		ALED2	
DESIGN3-DETAILED3		ALED3	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

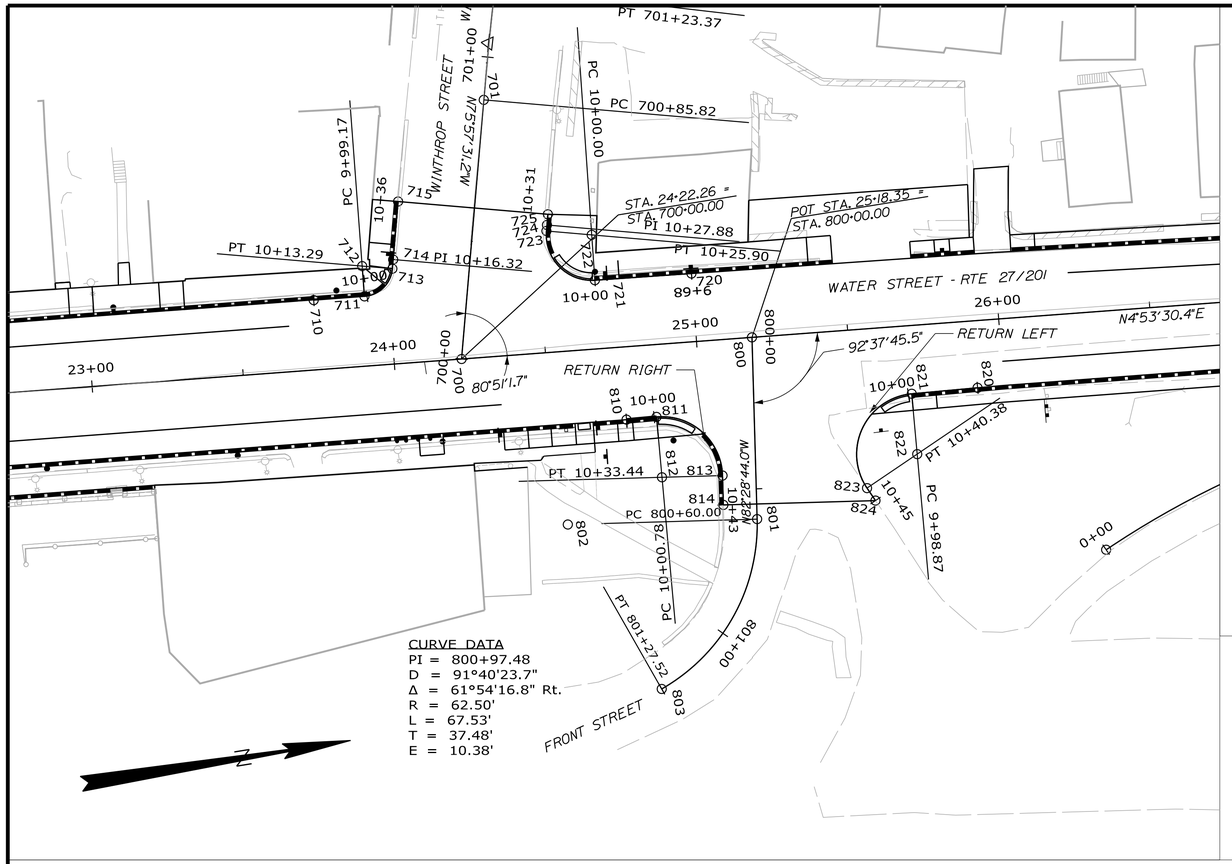
HALLOWELL
WINTHROP STREET

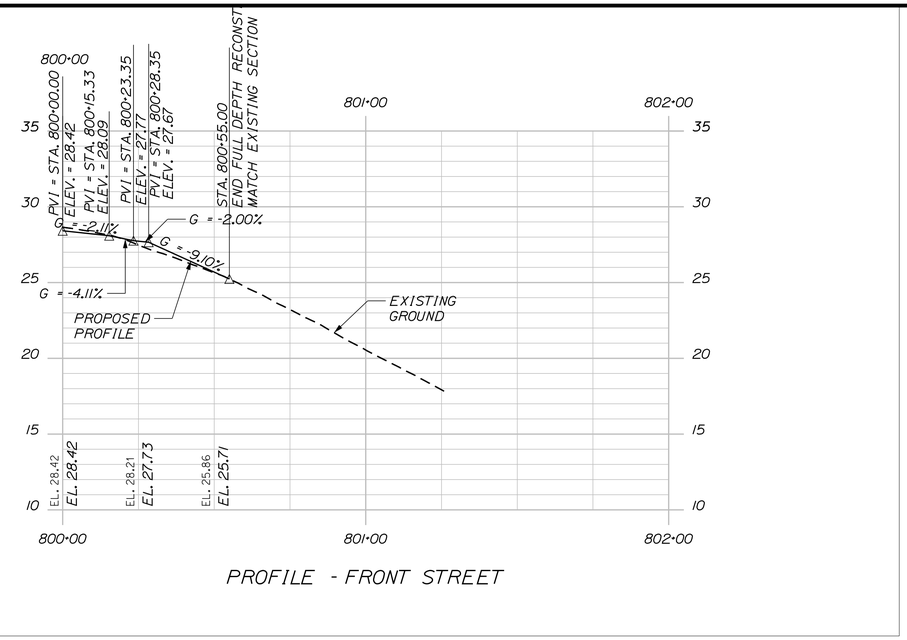
GEOMETRIC PLANS

SHEET NUMBER

33

OF 172





PROFILE - FRONT STREET

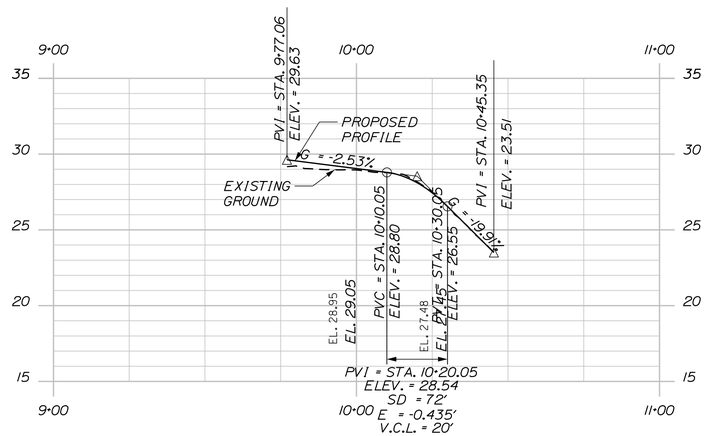
Horizontal Alignment Name: Front Street

STATION	NORTHING	EASTING
POB (800) 800+00.00	530473.67678	1137447.23793
PC (801) 800+60.00	530465.82385	1137506.71766

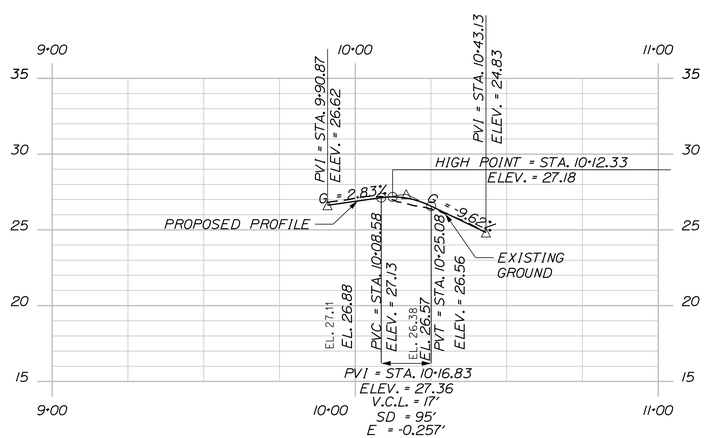
Tangent Direction: S 82°28'44.0" E
Tangent Length: 60.00

PI ( ) 800+97.48	530460.91764	1137543.87823
CC (802)	530403.86155	1137498.53696
PT (803) 801+27.52	530425.82535	1137557.05056

Radius: 62.500
Delta: 61°54'16.8" Right
Length: 67.54
Tangent: 37.48
External: 10.38



PROFILE - FRONT STREET LEFT RETURN



PROFILE - FRONT STREET RIGHT RETURN

Horizontal Alignment Name: Front Left

STATION	NORTHING	EASTING
POB (820) 9+77.06	530544.53941	1137475.51402
PC (821) 9+98.87	530522.78247	1137474.00379

Tangent Direction: S 3°58'14.7" W
Tangent Length: 21.81

PI ( ) 10+32.77	530488.96627	1137471.65647
CC (822)	530521.39752	1137493.95578
PT (823) 10+40.38	530503.26354	1137502.39135

Radius: 20.00
Delta: 118°55'03.7" Left
Length: 41.51
Tangent: 33.90
External: 19.36

POE (824) 10+45.35	530505.36008	1137506.89827

Tangent Direction: N 65°03'11.0" E
Tangent Length: 4.97

Horizontal Alignment Name: Front Right

STATION	NORTHING	EASTING
POB (810) 9+90.87	530428.50563	1137467.45966
PC (811) 10+00.78	530438.39803	1137468.14633

Tangent Direction: N 3°58'14.7" E
Tangent Length: 9.92

PI ( ) 10+22.06	530459.62630	1137469.61987
CC (812)	530437.01309	1137488.09832
PT (813) 10+33.44	530456.84102	1137490.71615

Radius: 20.00
Delta: 93°33'01.2" Right
Length: 32.66
Tangent: 21.28
External: 9.20

POE (814) 10+43.13	530455.57240	1137500.32495

Tangent Direction: S 82°28'44.1" E
Tangent Length: 9.69

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	ALG
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE	
1-18	
1-18	

HALLOWELL
FRONT STREET

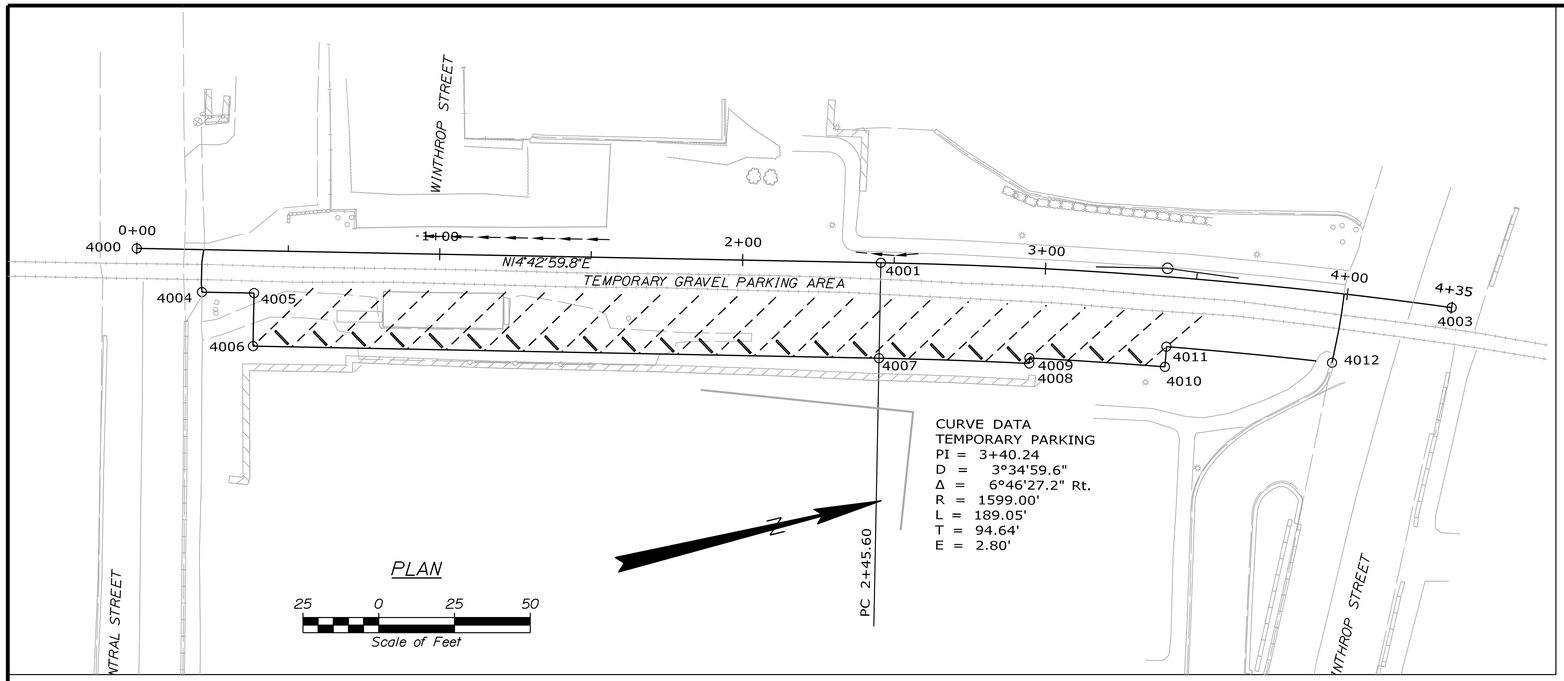
GEOMETRIC PLANS

SHEET NUMBER

34

OF 172

Filename: ...\034_Geometry_07.dgn Division: HIGHWAY Username: common Date:1/22/2018

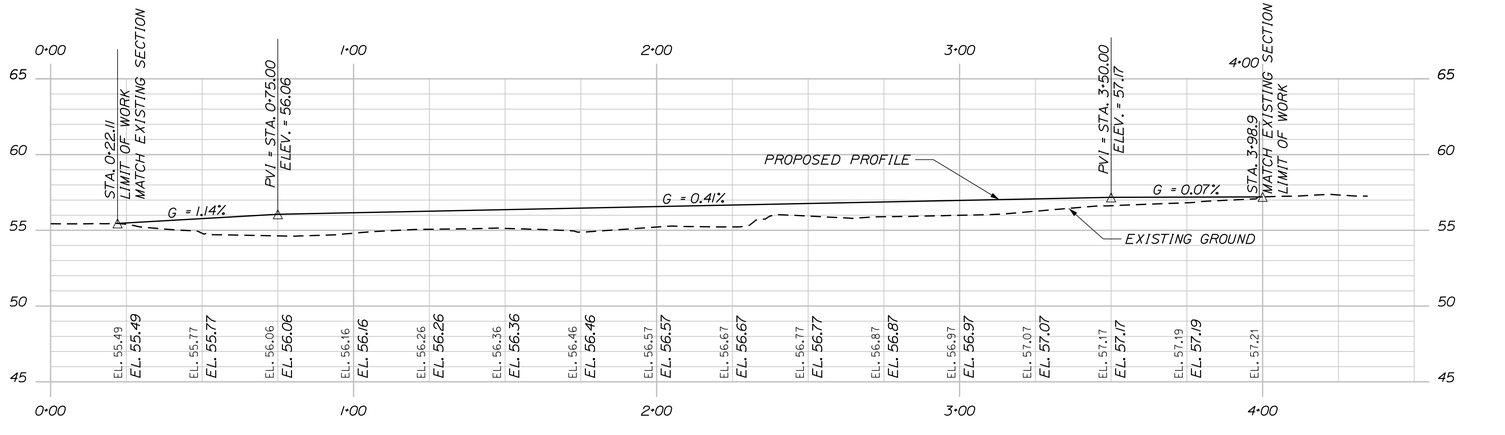


CONTROL POINTS FOR TEMPORARY PARKING				
Point	Station	Offset	NORTHING	EASTING
4000	0+00.00	0.00	530122.31487	1136930.50718
4001	2+45.60	0.00	530359.86200	1136992.90013
4002	2+45.60	1599.00	529953.65457	1138539.44354
4003	4+34.66	0.00	530539.45228	1137051.61222
4004	0+21.79	14.00	530139.83023	1136949.58254
4005	0+38.98	14.00	530156.45661	1136953.94954
4006	0+38.98	31.50	530152.01094	1136970.87544
4007	2+45.60	31.50	530351.85979	1137023.36675
4008	2+96.22	31.50	530399.64042	1137036.72838
4009	2+96.19	29.70	530400.12272	1137034.99391
4010	3+41.85	29.70	530442.89851	1137048.35573
4011	3+41.79	23.00	530444.93188	1137041.97147
4012	3+97.52	23.00	530496.81741	1137060.00103

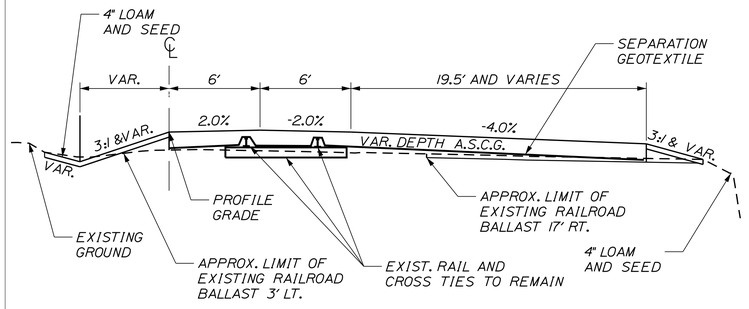
Horizontal Alignment Name: temp parking

	STATION	NORTHING	EASTING
POB (4000)	0+00.00	530122.31487	1136930.50718
PC (4001)	2+45.60	530359.86200	1136992.90013
PI ( )	3+40.24	530451.39458	1137016.94163
CC (4002)		529953.65457	1138539.44354
PT (4003)	4+34.66	530539.45228	1137051.61222

Tangent Direction: N 14°42'59.8" E
Radius: 1599.00
Tangent Length: 245.60
Delta: 6°46'27.2" Right
Degree of Curvature(Arc): 3°34'59.6"
Length: 189.05
Tangent: 94.64
External: 2.80



TEMPORARY PARKING PROFILE



NOTE: REMOVE APPROX. 3" OF EXISTING PAVEMENT AND/OR VEGETABLE MATERIAL WITHIN TEMPORARY PARKING AREA FOOTPRINT OUTSIDE OF EXISTING BALLAST MATERIAL. REPLACE WITH EITHER A.S.C.G. OR COMMON BORROW AS APPROPRIATE.

PLACE SEPARATION GEOTEXTILE BEFORE ADDING VARIABLE DEPTH AGGREGATE SUBBASE COURSE GRAVEL.

TYPICAL SECTION
TEMPORARY PARKING

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L EASON No. 7960 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

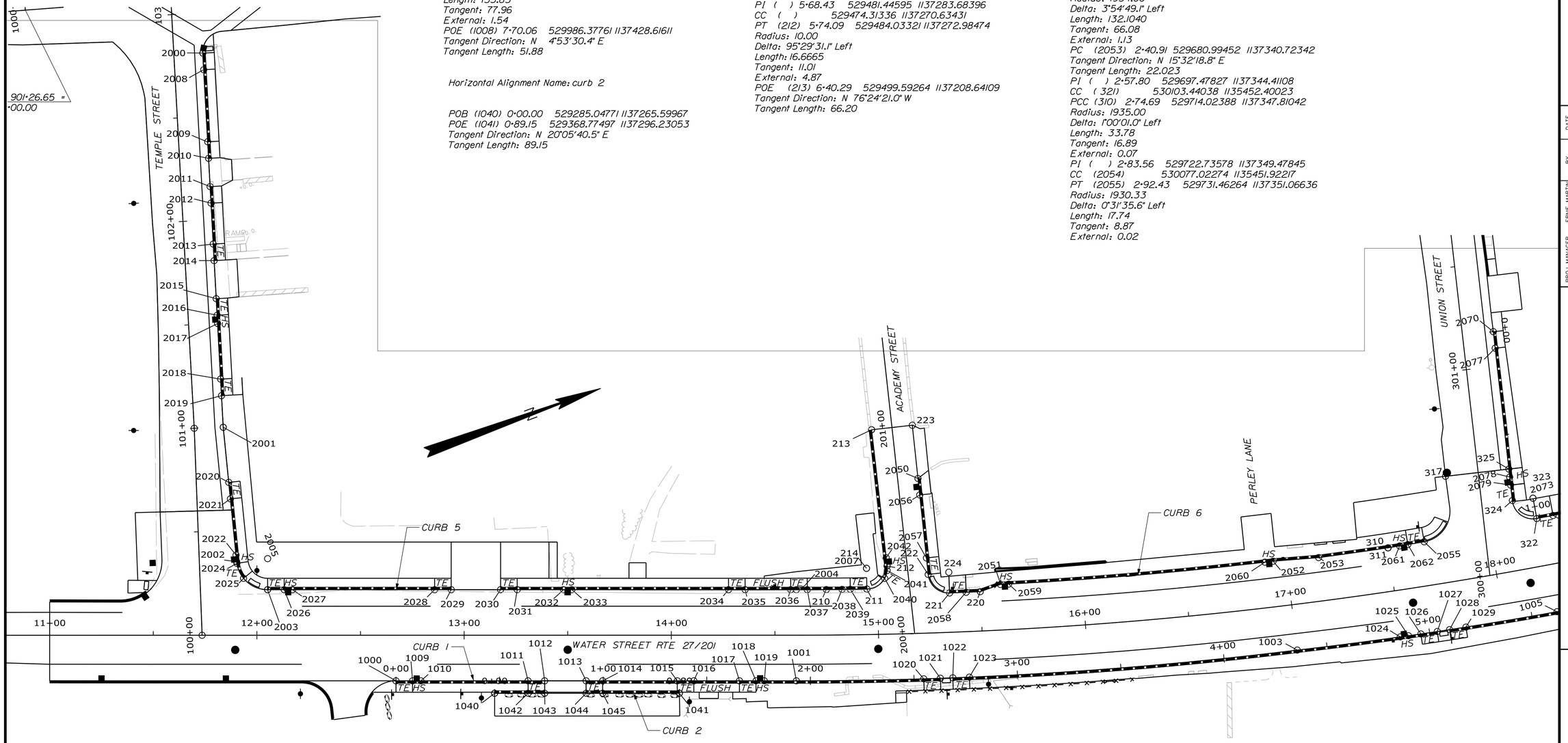
HALLOWELL
TEMPORARY PARKING

GEOMETRIC PLANS

SHEET NUMBER
35
OF 172

Filename: ...\035_Geometry_08.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\036_curb_01.dgn Division: HIGHWAY Username: common Date:1/22/2018



90l·26.65 =
·00.00

Horizontal Alignment Name: curb 1

STATION	NORTHING	EASTING
POB (1000) 0·00.00	529242.39938	1137243.60825
PC (1001) 1·93.22	529423.85701	1137309.99287

Tangent Direction: N 20°05'40.5" E
Tangent Length: 193.22

PI ( ) 3·14.55	529537.79724	1137351.67687
CC ( )	530103.44038	1135452.40023
PCC (1003) 4·35.57	529655.97775	1137379.12314

Radius: 1978.00
Delta: 7°01'11.9" Left
Length: 242.35
Tangent: 121.33
External: 3.72

PI ( ) 4·98.97	529717.62030	1137393.95233
CC ( )	530118.75251	1135455.44301
PCC (1005) 5·62.33	529780.08580	1137404.80460

Radius: 1978.56
Delta: 3°40'14.6" Left
Length: 126.76
Tangent: 63.40
External: 1.02

PI ( ) 6·40.29	529857.00250	1137417.54344
CC ( )	530103.44039	1135452.40023
PT (1007) 7·18.17	529934.68297	1137424.19178

Radius: 1979.00
Delta: 4°30'43.6" Left
Length: 155.85
Tangent: 77.96
External: 1.54

POE (1008) 7·70.06	529986.37761	1137428.61611

Tangent Direction: N 4°53'30.4" E
Tangent Length: 151.88

Horizontal Alignment Name: curb 2

POB (1040) 0·00.00	529285.04771	1137265.59967
POE (1041) 0·89.15	529368.77497	1137296.23053

Tangent Direction: N 20°05'40.5" E
Tangent Length: 89.15

Horizontal Alignment Name: curb 5

STATION	NORTHING	EASTING
POB (2000) 0·00.00	529258.99635	1136926.97175
PI (2001) 1·80.91	529206.16271	1137099.99805

Tangent Direction: S 73°01'11.7" E
Tangent Length: 180.915

PC (2002) 2·46.15	529189.95917	1137163.18900

Tangent Direction: S 75°37'04.7" E
Tangent Length: 65.24

PI ( ) 2·59.71	529186.59170	1137176.32154
CC ( )	529204.48908	1137166.91479
PT (2003) 2·68.20	529199.31803	1137180.99528

Radius: 15.00
Delta: 84°12'58.5" Left
Length: 22.05
Tangent: 13.56
External: 5.22

PC (2004) 5·23.39	529438.97413	1137268.67130

Tangent Direction: N 20°05'40.5" E
Tangent Length: 255.19

PI ( ) 5·40.41	529454.95858	1137274.51906
CC ( )	530103.44038	1135452.40023
PCC (211) 5·57.43	529471.04347	1137280.08459

Radius: 1934.00
Delta: 1°00'30.5" Left
Length: 34.04
Tangent: 17.02
External: 0.07

PI ( ) 5·68.43	529481.44595	1137283.68396
CC ( )	529474.31336	1137270.63431
PT (212) 5·74.09	529484.03321	1137272.98474

Radius: 10.00
Delta: 95°29'31.1" Left
Length: 16.6665
Tangent: 11.01
External: 4.87

POE (213) 6·40.29	529499.59264	1137208.64109

Tangent Direction: N 76°24'21.0" W
Tangent Length: 66.20

Horizontal Alignment Name: Curb 6

STATION	NORTHING	EASTING
POB (2050) 0·00.00	529512.54035	1137238.42812
PC (222) 0·46.59	529501.24658	1137283.62888

Tangent Direction: S 75°58'17.1" E
Tangent Length: 46.5903

PI ( ) 0·55.94	529498.98128	1137292.69521
CC (224)	529510.94832	1137286.05294
PCC (221) 0·61.62	529507.87364	1137295.56852

Radius: 10.00
Delta: 86°07'18.6" Left
Length: 15.03
Tangent: 9.35
External: 3.69

PI ( ) 0·69.03	529514.92331	1137297.84642
CC (321)	530103.44038	1135452.40023
PT (220) 0·76.44	529521.99021	1137300.07033

Radius: 1937.00
Delta: 0°26'17.8" Left
Length: 14.82
Tangent: 7.41
External: 0.0142

PC (2051) 0·86.78	529532.32984	1137300.15258

Tangent Direction: N 0°27'20.8" E
Tangent Length: 10.3400

PI ( ) 1·52.86	529595.46076	1137319.66533
CC (321)	530103.44038	1135452.40023
PT (2052) 2·18.88	529659.77626	1137334.82370

Radius: 1934.00
Delta: 3°54'49.1" Left
Length: 132.1040
Tangent: 66.08
External: 1.13

PC (2053) 2·40.91	529680.99452	1137340.72342

Tangent Direction: N 15°32'18.8" E
Tangent Length: 22.023

PI ( ) 2·57.80	529697.47827	1137344.41108
CC (321)	530103.44038	1135452.40023
PCC (310) 2·74.69	529714.02388	1137347.81042

Radius: 1935.00
Delta: 1°00'01.0" Left
Length: 33.78
Tangent: 16.89
External: 0.07

PI ( ) 2·83.56	529722.73578	1137349.47845
CC (2054)	530177.02274	1135451.92217
PT (2055) 2·92.43	529731.46264	1137351.06636

Radius: 1930.33
Delta: 0°31'35.6" Left
Length: 17.74
Tangent: 8.87
External: 0.02

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. BAKER · No. 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960	P.E. NUMBER	
1/12/18	DATE	

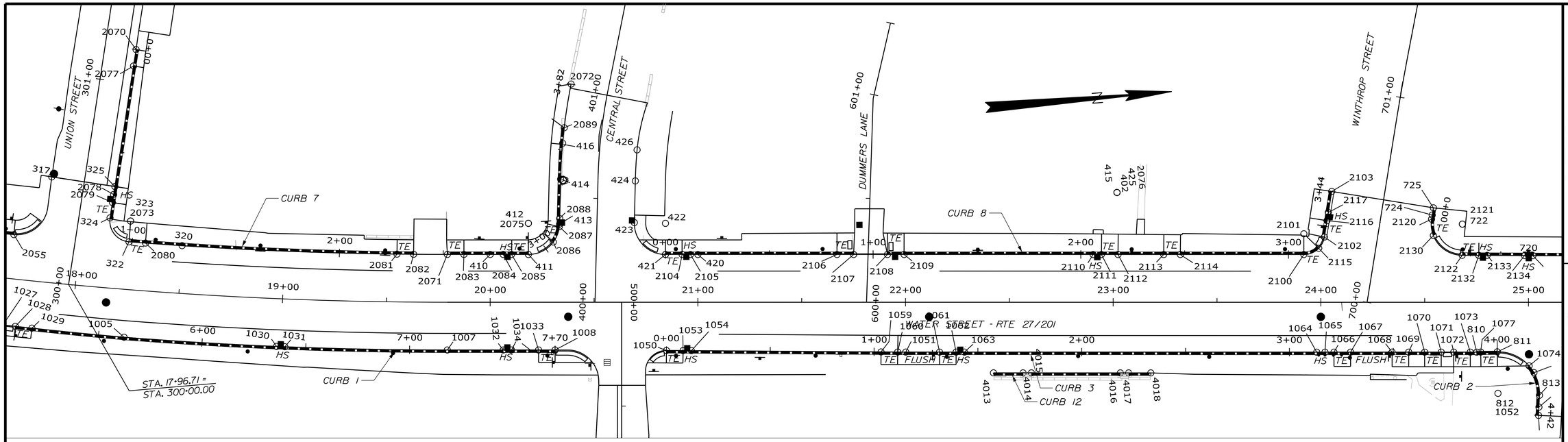
	BY	DATE
ERNIE MARTIN	JLE	1-18
PROJ. MANAGER		
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET
GRANITE CURB LAYOUT

SHEET NUMBER

36

OF 172



Horizontal Alignment Name: curb 3

STATION	NORTHING	EASTING
POB (1050) 0+00.00	530039.79467	1137433.42066
PI (1051) 1+15.25	530154.55385	1137444.01327

Tangent Direction: N 5°16'25.1" E
Tangent Length: 115.25

PI (810) 3+90.20	530428.50563	1137467.45966

Tangent Direction: N 4°53'30.4" E
Tangent Length: 274.95

PC (811) 4+00.12	530438.39803	1137468.14633

Tangent Direction: N 3°58'14.7" E
Tangent Length: 9.92

PI ( ) 4+21.40	530459.62630	1137469.61987
CC ( )	530437.01309	1137488.09832
PT (813) 4+32.77	530456.84102	1137490.71615

Radius: 20.00
Delta: 93°33'01.2" Right
Length: 32.66
Tangent: 21.28
External: 9.20

POE (814) 4+42.46	530455.57240	1137500.32495

Tangent Direction: S 82°28'44.0" E
Tangent Length: 9.69

Horizontal Alignment Name: curb 4

STATION	NORTHING	EASTING
POB (1080) 0+00.00	530522.78232	1137474.00378
PI (1081) 0+29.92	530552.62910	1137476.07556

Tangent Direction: N 3°58'14.7" E
Tangent Length: 29.92

PC (1082) 1+89.98	530712.10506	1137489.72444

Tangent Direction: N 4°53'30.4" E
Tangent Length: 160.06

PI ( ) 2+46.22	530768.14559	1137494.52072
CC ( )	530645.76182	1138264.89060
PCC (1083) 3+02.27	530822.91348	1137507.32787

Radius: 778.00
Delta: 8°16'12.0" Right
Length: 112.30
Tangent: 56.25
External: 2.03

PI ( ) 3+18.46	530838.86004	1137510.10311
CC ( )	530734.78804	1138013.69732
PT (1084) 3+34.63	530854.60037	1137513.87623

Radius: 513.98
Delta: 3°36'27.1" Right
Length: 32.3618
Tangent: 16.19
External: 0.25

Horizontal Alignment Name: curb 8

STATION	NORTHING	EASTING
POB (421) 0+00.00	530043.27086	1137387.31720
PC (2100) 3+07.42	530349.57087	1137413.53214

Tangent Direction: N 4°53'30.4" E
Tangent Length: 307.42

PI ( ) 3+15.94	530358.05811	1137414.25853
CC (2101)	530350.42361	1137403.56857
PT (2102) 3+21.53	530360.12482	1137405.99479

Radius: 10.00
Delta: 80°51'01.7" Left
Length: 14.11
Tangent: 8.52
External: 3.14

POE (2103) 3+43.79	530365.52562	1137384.39972

Tangent Direction: N 75°57'31.2" W
Tangent Length: 22.26

Horizontal Alignment Name: curb 9

STATION	NORTHING	EASTING
POB (725) 0+00.00	530413.64714	1137396.43464
PC (2120) 0+05.52	530412.30321	1137401.79337

Tangent Direction: S 75°55'15.9" E
Tangent Length: 5.52

PC (2120) 0+05.52	530412.30321	1137401.79337
PI ( ) 0+23.05	530408.05237	1137418.79035
CC (2121)	530426.85503	1137405.43270
PT (2122) 0+31.41	530425.50135	1137420.37149

Radius: 15.00
Delta: 98°51'49.0" Left
Length: 25.88
Tangent: 17.52
External: 8.06

PI (2123) 1+63.39	530556.94846	1137432.28258

Tangent Direction: N 5°10'39.8" E
Tangent Length: 131.9857

PC (2124) 3+22.99	530715.67647	1137448.88022

Tangent Direction: N 5°58'10.3" E
Tangent Length: 159.5934

PI ( ) 4+07.95	530800.33179	1137456.13337
CC (1085)	530645.76182	1138264.89060
PCC (2125) 4+92.31	530881.69539	1137480.60981

Radius: 819.00
Delta: 11°50'44.5" Right
Length: 169.33
Tangent: 84.97
External: 4.40

PI ( ) 5+17.90	530906.05719	1137488.44898
CC (2126)	530637.66592	1138238.98076
PT (2127) 5+43.48	530929.86564	1137497.83557

Radius: 796.67
Delta: 3°40'47.5" Right
Length: 51.17
Tangent: 25.592
External: 0.41

POE (2128) 5+51.77	530937.47858	1137501.11047

Tangent Direction: N 23°16'34.3" E
Tangent Length: 8.29

Horizontal Alignment Name: curb 7

STATION	NORTHING	EASTING
POB (2070) 0+00.00	529797.66181	1137267.29293
PI (331) 0+66.73	529781.89719	1137332.13435

Tangent Direction: S 76°20'06.2" E
Tangent Length: 66.73

PC (330) 0+82.01	529778.27486	1137346.97994

Tangent Direction: S 76°17'15.9" E
Tangent Length: 15.28

PI ( ) 0+92.79	529775.72078	1137357.44746
CC ( )	529787.98984	1137349.35040
PCC (322) 0+98.46	529786.34944	1137359.21494

Radius: 10.00
Delta: 94°16'14.6" Left
Length: 16.45
Tangent: 10.77
External: 4.70

PI ( ) 1+75.25	529862.09725	1137371.81131
CC ( )	530103.44039	1135452.40023
PT (2071) 2+51.96	529938.60557	1137378.35934

Radius: 1933.00
Delta: 4°32'59.0" Left
Length: 153.50
Tangent: 76.79
External: 1.52

PC (406) 2+90.99	529977.49256	1137381.68751

Tangent Direction: N 4°53'30.4" E
Tangent Length: 39.03

PI ( ) 3+05.64	529992.08570	1137382.93648
CC ( )	529978.77168	1137366.74215
PT (407) 3+14.19	529993.68229	1137368.37727

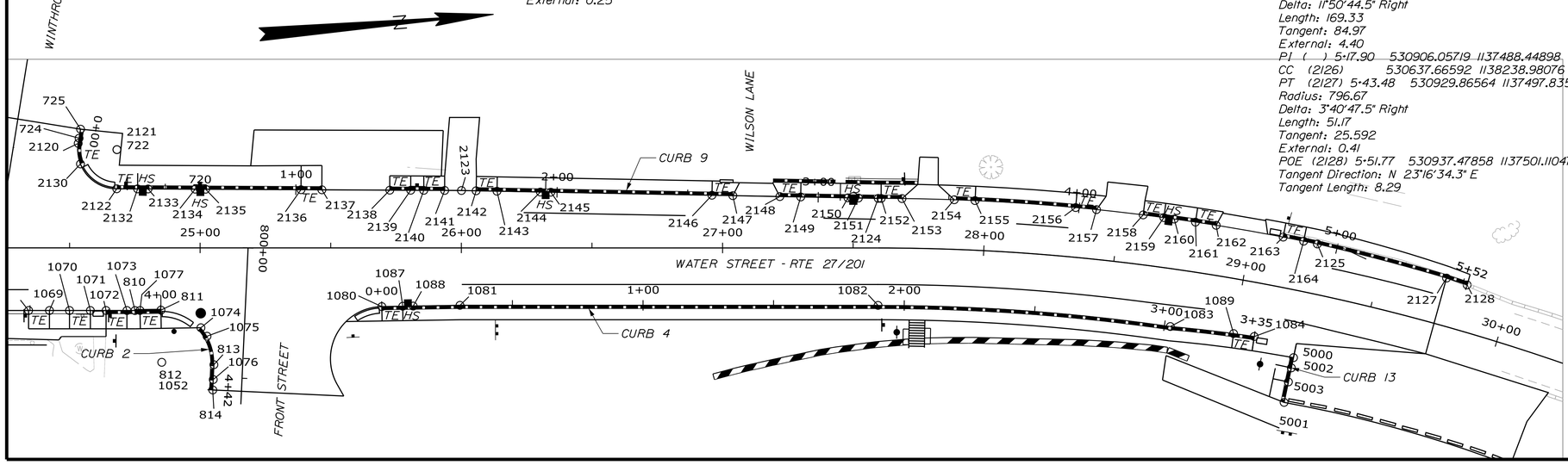
Radius: 15.00
Delta: 88°38'01.1" Left
Length: 23.20
Tangent: 14.65
External: 5.96

PC (414) 3+35.82	529996.04020	1137346.87559

Tangent Direction: N 83°44'30.7" W
Tangent Length: 21.6306

PI ( ) 3+58.94	529998.56031	1137323.89476
CC ( )	530262.44315	1137376.08974
PT (2072) 3+81.95	530004.97872	1137301.68500

Radius: 268.00
Delta: 9°51'38.3" Right
Length: 46.12
Tangent: 23.12
External: 1.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

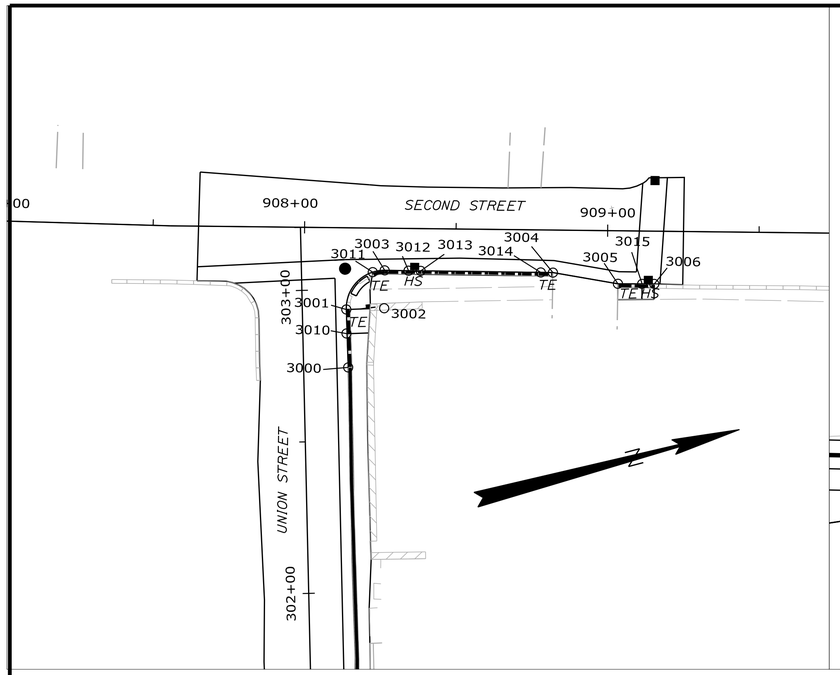
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

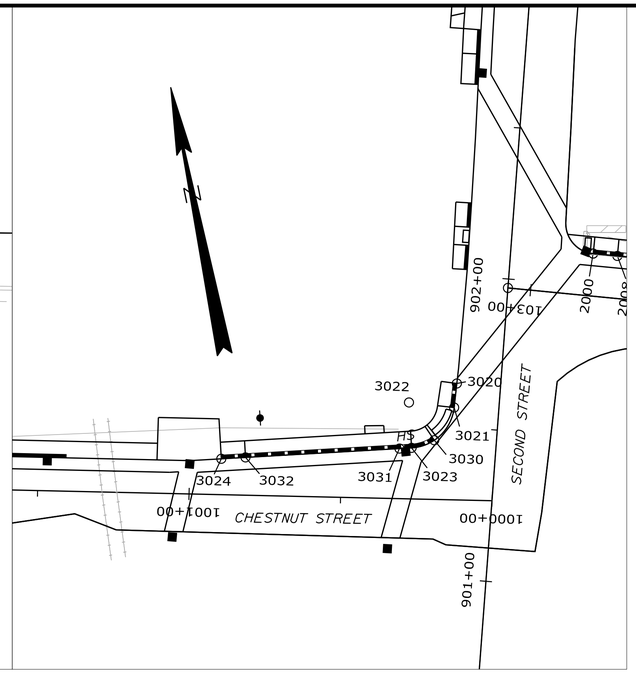
		DATE
PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL WATER STREET
GRANITE CURB LAYOUT

SHEET NUMBER
37
OF 172

Filename: ...\037_curb_02.dgn Division: HIGHWAY Username: common Date:1/22/2018





Horizontal Alignment Name: curb 10

STATION	NORTHING	EASTING
POB (3000) 0+00.00	529834.36563	1137114.11513
PC (3001) 0+19.14	529838.67971	1137095.47252
Tangent Direction: N 76°58'14.0" W		
Tangent Length: 19.14		
PI ( ) 0+32.22	529841.62967	1137082.72476
CC (3002)	529850.85789	1137098.29067
PT (3003) 0+39.34	529854.22938	1137086.25393
Radius: 12.50		
Delta: 92°37'05.1" Right		
Length: 20.21		
Tangent: 13.08		
External: 5.60		
PI (3004) 0+94.86	529907.69281	1137101.22663
Tangent Direction: N 15°38'42.6" E		
Tangent Length: 55.52		
PI (3005) 1+16.63	529927.48405	1137110.29668
Tangent Direction: N 24°37'16.8" E		
Tangent Length: 21.77		
POE (3006) 1+28.63	529939.06878	1137113.43029
Tangent Direction: N 15°08'09.6" E		
Tangent Length: 12.00		

Horizontal Alignment Name: curb 11

STATION	NORTHING	EASTING
POB (3020) 0+00.00	529225.90658	1136874.39117
PC (3021) 0+07.99	529218.30409	1136871.94152
Tangent Direction: S 17°51'35.2" W		
Tangent Length: 7.99		
PI ( ) 0+20.64	529206.25986	1136868.06331
CC (3022)	529222.90158	1136857.66346
PT (3023) 0+29.01	529208.05296	1136855.53779
Radius: 15.00		
Delta: 80°17'54.4" Right		
Length: 21.02		
Tangent: 12.65		
External: 4.62		
POE (3024) 0+91.92	529216.96762	1136793.26540
Tangent Direction: N 81°51'11.3" W		
Tangent Length: 62.91		

Horizontal Alignment Name: curb 12

STATION	NORTHING	EASTING
POB (4013) 0+00.00	530195.80227	1137457.58004
POE (4018) 0+75.75	530271.28032	1137464.03990
Tangent Direction: N 4°53'30.4" E		
Tangent Length: 75.75		

Horizontal Alignment Name: CURB 13

STATION	NORTHING	EASTING
POB (5000) 0+00.00	530868.87465	1137523.22799
POE (5001) 0+17.51	530863.83165	1137539.99171
Tangent Direction: S 73°15'26.1" E		
Tangent Length: 17.51		

CONTROL POINTS FOR CURB 1

Point	Station	Offset	NORTHING	EASTING
1000	12+67.13	22.00	529242.39938	1137243.60825
1001	14+60.35	22.00	529423.85701	1137309.99287
1002	19+79.35	-1956.00	530103.44038	1135452.40023
1003	17+00.00	22.00	529655.97775	1137379.12314
1004	19+94.87	-1954.27	530118.75251	1135455.44301
1005	18+25.31	23.00	529780.08580	1137404.80460
1006	19+79.35	-1956.00	530103.44039	1135452.40023
1007	19+79.35	23.00	529934.68297	1137424.19178
1008	20+31.23	23.00	529986.37761	1137428.61611
1009	12+76.13	22.00	529249.91239	1137246.35682
1010	12+79.13	22.00	529253.66890	1137247.73110
1011	13+30.88	22.00	529302.27088	1137265.51169
1012	13+38.86	22.00	529309.76459	1137268.25320
1013	13+58.88	22.00	529328.56643	1137275.13168
1014	13+66.88	22.00	529336.07944	1137277.88025
1015	14+02.88	22.00	529369.88800	1137290.24880
1016	14+10.88	22.00	529377.40102	1137292.99737
1017	14+32.88	22.00	529398.06180	1137300.55593
1018	14+40.88	22.00	529405.57482	1137303.30450
1019	14+44.88	22.00	529409.33132	1137304.67878
1020	15+21.16	22.00	529481.92661	1137330.21934
1021	15+29.10	22.00	529489.56083	1137332.72889
1022	15+35.04	22.00	529495.26729	1137334.58266
1023	15+42.95	22.00	529502.88482	1137337.02672
1024	17+49.55	22.40	529704.84754	1137390.22682
1025	17+53.51	22.43	529708.75988	1137391.05965
1026	17+59.49	22.47	529714.68547	1137392.30531
1027	17+67.40	22.54	529722.52015	1137393.92325
1028	17+73.33	22.59	529728.40042	1137395.11591
1029	17+81.24	22.65	529736.24634	1137396.67838
1030	18+98.05	23.00	529852.89285	1137415.47611
1031	19+01.98	23.00	529856.83681	1137415.97546
1032	20+06.26	23.00	529961.49436	1137426.48646
1033	20+23.30	23.00	529978.47206	1137427.93951
1034	20+10.26	23.00	529965.47979	1137426.82755

CONTROL POINTS FOR CURB 2

Point	Station	Offset	NORTHING	EASTING
1040	13+14.74	28.00	529285.04771	1137265.59967
1041	14+03.89	28.00	529368.77497	1137296.23053
1042	13+30.88	28.00	529300.20945	1137271.14645
1043	13+38.88	28.00	529307.72247	1137273.89502
1044	13+58.88	28.00	529326.50500	1137280.76644
1045	13+66.88	28.00	529334.01801	1137283.51501

CONTROL POINTS FOR CURB 3

Point	Station	Offset	NORTHING	EASTING
810	24+75.06	24.00	530428.50563	1137467.45966
811	24+84.98	23.84	530438.39803	1137468.14633
812	24+85.30	43.84	530437.01309	1137488.09832
813	25+05.28	44.76	530456.84102	1137490.71615
814	25+04.83	54.44	530455.57240	1137500.32495
1050	20+84.87	23.23	530039.79467	1137433.42066
1051	22+00.11	24.00	530154.55385	1137444.01327
1052	24+85.30	43.84	530437.01309	1137488.09832
1053	20+92.87	23.29	530047.76081	1137434.15595
1054	20+96.87	23.31	530051.74387	1137434.52360
1055	DELETED			
1056	DELETED			
1057	DELETED			
1058	DELETED			
1059	21+88.22	23.92	530142.71172	1137442.92021
1060	21+96.22	23.97	530150.67786	1137443.65550
1061	22+16.37	24.00	530170.75273	1137445.39966
1062	22+24.37	24.00	530178.72359	1137446.08186
1063	22+28.37	24.00	530182.70902	1137446.42295
1064	23+98.00	24.00	530351.72218	1137460.88809
1065	24+02.00	24.00	530355.70761	1137461.22918
1066	24+06.32	24.00	530360.00965	1137461.59737
1067	24+14.32	24.00	530367.98051	1137462.27957
1068	24+34.32	24.00	530387.90766	1137463.98505
1069	24+42.32	24.00	530395.87852	1137464.66724
1070	24+49.98	24.00	530403.51281	1137465.32063
1071	24+57.98	24.00	530411.48367	1137466.00282
1072	24+63.98	24.00	530417.46181	1137466.51447
1073	24+71.98	24.00	530425.43267	1137467.19666
1074	25+00.29	30.60	530453.07550	1137476.18200
1075	25+02.62	33.84	530455.12273	1137479.61064
1076	25+05.02	50.44	530456.09596	1137496.35936
1077	24+76.98	23.97	530430.41724	1137467.59235

CONTROL POINTS FOR CURB 4

Point	Station	Offset	NORTHING	EASTING
1080	25+69.56	22.48	530522.78232	1137474.00378
1081	25+99.47	22.00	530552.62910	1137476.07556
1082	27+59.53	22.00	530712.10506	1137489.72444
1083	28+75.00	22.00	530822.91348	1137507.32787
1084	29+08.21	20.49	530854.60037	1137513.87623
1085	27+59.53	800.00	530645.76182	1138264.89060
1086	29+63.71	533.50	530734.78804	1138013.69732
1087	25+77.55	22.35	530530.76312	1137474.55776
1088	25+81.55	22.29	530534.75352	1137474.83474
1089	29+00.00	20.81	530846.80353	1137512.08462

CONTROL POINTS FOR CURB 5

Point	Station	Offset	NORTHING	EASTING
211	14+94.78	-22.00	529471.04347	1137280.08459
212	200+33.86	-9.64	529484.03321	1137272.98474
213	201+00.05	-9.89	529499.59264	1137208.64109
214	14+94.78	-32.00	529474.31336	1137270.63431
2000	102+80.64	14.00	529258.99635	1136926.97175
2001	100+99.96	14.00	529206.16271	1137099.99805
2002	100+34.85	18.03	529189.95917	1137163.18900
2003	12+05.16	-22.00	529199.31803	1137180.99528
2004	14+60.35	-22.00	529438.97413	1137268.67130
2005	12+05.18	-37.00	529204.48909	1137166.91479
2006	19+79.35	-1956.00	530103.44038	1135452.40023
2007	14+94.78	-32.00	529474.31336	1137270.63431
2008	102+72.60	14.00	529256.64880	1136934.65980
2009	102+37.74	14.00	529246.46877	1136967.99867
2010	102+29.74	14.00	529244.13246	1136975.64992
2011	102+16.08	14.00	529240.14067	1136988.72271
2012	102+08.08	14.00	529237.80436	1136996.37396
2013	101+88.31	14.00	529232.03126	1137015.28044
2014	101+80.31	14.00	529229.69495	1137022.93169
2015	101+61.88	14.00	529224.31345	1137040.55572
2016	101+53.88	14.00	529221.97713	1137048.20697
2017	101+49.88	14.00	529220.80898	1137052.03259
2018	101+23.00	14.00	529212.95883	1137077.74125
2019	101+15.00	14.00	529210.62252	1137085.39251
2020	100+73.27	15.65	529199.52119	1137125.89881
2021	100+65.28	16.15	529197.53309	1137133.65206
2022	100+38.05	17.83	529190.75601	1137160.08147
2024	100+34.06	18.10	529189.78274	1137163.96126
2025	100+26.72	21.04	529190.32360	1137171.84826
2026	12+13.18	-22.00	529206.85101	1137183.75116
2027	12+17.18	-22.00	529210.60751	1137185.12545
2028	12+85.78	-22.00	529275.03463	1137208.69552
2029	12+93.78	-22.00	529282.54764	1137211.44409
2030	13+17.58	-22.00	529304.89863	1137219.62099
2031	13+25.63	-22.00	529312.45478	1137222.38534
2032	13+48.00	-22.00	529333.46545	1137230.07191
2033	13+52.00	-22.00	529337.22195	1137231.44619
2034	14+27.63	-22.00	529408.24562	1137257.42955
2035	14+35.63	-22.00	529415.75872	1137260.17815
2036	14+57.63	-22.00	529436.41951	1137267.73671
2037	14+65.69	-22.00	529443.93505	1137270.47853
2038	14+82.64	-22.00	529459.71535	1137276.12556
2039	14+86.68	-22.00	529463.48865	1137277.45304
2040	15+03.57	-27.00	529480.87734	1137278.17846
2040	200+28.06	-11.47	529480.87734	1137278.17846
2041	200+31.70	-9.87	529483.29702	1137275.02679
2042	200+37.86	-9.66	529484.97338	1137269.09680

CONTROL POINTS FOR CURB 6

Point	Station	Offset	NORTHING	EASTING
220	15+50.00	-19.00	529521.99021	1137300.07033
221	15+35.04	-19.00	529507.87364	1137295.56852
222	200+27.63	9.62	529501.24658	1137283.62888
223	201+00.05	9.89	529518.80281	1137213.36405
224	200+27.59	19.62	529510.94832	1137286.05294
310	17+50.00	-21.00	529714.02388	1137347.81042
311	17+50.12	-21.00	529714.13692	1137347.83205
312	14+35.29	-1947.36	530076.93539	1135451.90606
313	17+67.82	-21.24	529731.34953	1137351.04494
314	17+67.93	-21.24	529731.46098	1137351.06522
315	300+34.73	-30.53	529734.14643	1137336.30757
316	300+35.06	-15.53	529748.80076	1137339.50919
317	300+50.00	-15.86	529751.99072	1137324.90826
2050	200+74.22	9.79	529512.54035	1137238.42812
2051	15+60.00	-22.00	529532.32984	1137300.15258
2052	16+93.61	-22.00	529659.77626	1137334.82370
2053	17+15.85	-21.00	529680.99452	1137340.72342
2054	14+35.37	-1947.37	530077.02274	1135451.92217
2055	17+67.93	-21.24	529731.46264	1137351.06636
2056	200+66.22	9.77	529510.60556	1137246.19066
2057	200+35.63	9.65	529503.18584	1137275.86742
2058	15+43.12	-19.00	529515.49115	1137298.01248
2059	15+64.05	-22.00	529536.15268	1137301.32983
2060	16+89.56	-22.00	529655.88388	1137333.90207
2061	17+55.80	-21.08	529719.66334	1137348.88088
2062	17+59.84	-21.13	529723.59335	1137349.61700

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

	BY	DATE
SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

GRANITE CURB LAOUT

SHEET NUMBER

38

OF 172

Filename: ...\038_curb_03.dgn Division: HIGHWAY Username: common Date:1/22/2018

CONTROL POINTS FOR CURB 7				
Point	Station	Offset	NORTHING	EASTING
322	18+24.03	-23.00	529786.34944	1137359.21494
330	300+34.72	14.87	529778.27486	1137346.97994
331	300+50.00	14.91	529781.89719	1137332.13435
410	20+00.00	-23.00	529959.17977	1137380.12020
411	20+18.38	-23.00	529977.49256	1137381.68751
412	400+37.22	-33.00	529978.77167	1137366.74215
413	400+37.22	-18.00	529993.68229	1137368.37727
414	400+58.85	-18.00	529996.04020	1137346.87558
415	400+58.85	250.00	530262.44315	1137376.08975
416	400+75.00	-18.00	529998.48100	1137329.74339
2070	301+16.73	15.00	529797.66181	1137267.29293
2071	19+79.35	-23.00	529938.60557	1137378.35934
2072	20+38.94	-105.06	530004.97872	1137301.68500
2073	18+24.03	-33.00	529787.98984	1137349.35040
2074	19+79.35	-1956.00	530103.44039	1135452.40023
2075	20+18.38	-38.00	529978.77168	1137366.74215
2076	23+01.82	-52.88	530262.44315	1137376.08974
2077	301+08.73	14.99	529795.77155	1137275.06775
2078	300+46.11	14.87	529780.94981	1137335.90787
2078	18+14.66	-45.08	529780.94981	1137335.90787
2079	300+42.22	14.89	529780.05327	1137339.69137
2080	18+32.12	-23.00	529794.24376	1137360.51093
2081	19+54.82	-23.00	529914.46782	1137376.14095
2082	19+62.92	-23.00	529922.43109	1137376.90657
2083	19+87.35	-23.00	529946.57643	1137379.04153
2084	20+06.26	-23.00	529965.41696	1137380.65401
2085	20+10.26	-23.00	529969.40239	1137380.99511
2086	20+30.38	-29.00	529989.95902	1137376.73432
2087	400+35.93	-18.06	529993.48580	1137369.65668
2088	400+39.93	-18.00	529993.97727	1137365.68738
2089	400+82.01	-18.00	529999.88332	1137322.36512

CONTROL POINTS FOR CURB 8				
Point	Station	Offset	NORTHING	EASTING
420	21+00.00	-23.00	530058.81552	1137388.64761
421	20+84.40	-23.00	530043.27087	1137387.31720
422	20+84.40	-38.00	530044.54998	1137372.37184
2102	700+27.74	-25.30	530360.12482	1137405.99479
2103	700+50.00	-25.30	530365.52562	1137384.39972
2104	20+92.41	-23.00	530051.25321	1137388.00038
2105	20+96.41	-23.00	530055.23864	1137388.34148
2106	21+67.00	-23.00	530125.57147	1137394.36097
2107	21+75.00	-23.00	530133.54233	1137395.04316
2108	21+91.30	-23.00	530149.78001	1137396.43288
2109	21+99.30	-23.00	530157.75089	1137397.11507
2110	22+90.33	-23.00	530248.45511	1137404.87807
2111	22+94.33	-23.00	530252.43968	1137405.21909
2112	23+02.33	-23.00	530260.41097	1137405.90132
2113	23+24.33	-23.00	530282.33084	1137407.77735
2114	23+32.33	-23.00	530290.30197	1137408.45957
2115	23+98.99	-26.03	530356.97693	1137411.12198
2115	700+22.00	-27.11	530356.97693	1137411.12198
2116	700+35.74	-25.30	530362.06575	1137398.23400
2117	700+39.74	-25.30	530363.03624	1137394.35351

CONTROL POINTS FOR CURB 9				
Point	Station	Offset	NORTHING	EASTING
720	24+99.99	-22.50	530457.30853	1137423.25370
721	24+68.05	-22.66	530425.49928	1137420.37131
722	24+68.13	-37.66	530426.85296	1137405.43251
723	24+53.32	-40.06	530412.30490	1137401.77823
724	700+46.48	24.30	530412.78865	1137399.85236
725	700+50.00	24.30	530413.64714	1137396.43464
2120	700+44.48	24.30	530412.30321	1137401.79337
2121	24+68.13	-37.66	530426.85503	1137405.43270
2122	24+68.06	-22.66	530425.50135	1137420.37149
2123	26+00.04	-22.00	530556.94846	1137432.28258
2124	27+59.60	-19.00	530715.67647	1137448.88022
2125	29+25.00	-19.00	530881.69539	1137480.60981
2126	27+49.25	774.87	530637.66592	1138238.98076
2127	29+75.00	-17.98	530929.86564	1137497.83557
2128	29+83.10	-17.59	530937.47858	1137501.11047
2129	24+53.32	-40.05	530412.30321	1137401.79337
2130	700+36.84	26.39	530412.47634	1137409.70509
2132	24+76.06	-22.62	530433.46871	1137421.09345
2133	24+80.06	-22.60	530437.45238	1137421.45443
2134	24+98.10	-22.51	530455.42271	1137423.08282
2135	25+02.10	-22.49	530459.40639	1137423.44380
2136	25+38.61	-22.31	530495.76400	1137426.73834
2137	25+46.60	-22.27	530503.73136	1137427.46031
2138	25+72.60	-22.14	530529.62559	1137429.80671
2139	25+80.60	-22.10	530537.59305	1137430.52868
2140	25+85.60	-22.07	530542.57271	1137430.97992
2141	25+93.60	-22.03	530550.54016	1137431.70189
2142	26+05.65	-21.90	530562.52802	1137432.86527
2143	26+13.65	-21.75	530570.48464	1137433.69730
2144	26+30.25	-21.43	530587.00208	1137435.42456
2145	26+34.25	-21.36	530590.98039	1137435.84057
2146	26+95.93	-20.20	530652.34056	1137442.25709
2147	27+03.93	-20.05	530660.29717	1137443.08913
2148	27+21.93	-19.71	530678.19955	1137444.96121
2149	27+29.93	-19.56	530686.15617	1137445.79324
2150	27+48.00	-19.22	530704.13308	1137447.67311
2151	27+52.00	-19.14	530708.11138	1137448.08913
2152	27+60.68	-19.00	530716.77179	1137448.97481
2153	27+68.49	-19.00	530724.73815	1137449.70735
2154	27+88.03	-19.00	530744.61991	1137451.87887
2155	27+95.80	-19.00	530752.51266	1137452.87751
2156	28+33.54	-19.00	530790.68696	1137458.81510
2157	28+41.35	-19.00	530798.55367	1137460.26917
2158	28+58.94	-19.00	530816.19969	1137463.82136
2159	28+66.75	-19.00	530824.01634	1137465.52440
2160	28+70.66	-19.00	530827.91831	1137466.40452
2161	28+78.69	-19.00	530835.92143	1137468.27255
2162	28+86.50	-19.00	530843.69361	1137470.16800
2163	29+11.97	-19.00	530868.89111	1137476.87136
2164	29+19.76	-19.00	530876.55154	1137479.08076

CONTROL POINTS FOR CURB 10				
Point	Station	Offset	NORTHING	EASTING
3000	302+74.24	14.70	529834.36563	1137114.11513
3001	302+93.38	14.52	529838.67971	1137095.47252
3002	302+93.50	27.02	529850.85789	1137098.29067
3002	908+26.55	26.40	529850.85789	1137098.29067
3003	908+26.58	13.90	529854.22938	1137086.25393
3004	908+82.10	14.03	529907.69281	1137101.22663
3005	909+03.59	17.48	529927.48405	1137110.29668
3006	909+15.59	17.40	529939.06878	1137113.43029
3010	302+85.46	14.39	529836.69513	1137103.14320
3011	908+22.64	14.53	529850.27135	1137085.80444
3012	908+34.46	13.92	529861.81792	1137088.37914
3013	908+38.46	13.93	529865.66972	1137089.45786
3014	908+78.10	14.02	529903.84101	1137100.14792
3015	909+11.59	17.43	529935.20721	1137112.38576

CONTROL POINTS FOR CURB 11				
Point	Station	Offset	NORTHING	EASTING
3020	901+64.36	-14.45	529225.90658	1136874.39117
3021	901+56.38	-14.75	529218.30409	1136871.94152
3022	901+56.94	-29.74	529222.90158	1136857.66346
3023	1000+26.92	16.85	529208.05296	1136855.53779
3024	1000+89.62	11.83	529216.96762	1136793.26540
3030	1000+19.48	19.53	529209.03527	1136863.38407
3031	1000+30.90	16.53	529208.61981	1136851.57816
3032	1000+81.65	12.47	529215.83393	1136801.18467

CONTROL POINTS FOR CURB 12				
Point	Station	Offset	NORTHING	EASTING
4013	22+42.37	34.00	530195.80227	1137457.58004
4014	22+56.60	34.00	530209.98575	1137458.79395
4015	22+60.60	34.00	530213.97118	1137459.13505
4016	23+03.45	34.00	530256.66024	1137462.78862
4017	23+07.45	34.00	530260.64554	1137463.12971
4018	23+18.12	34.00	530271.28032	1137464.03990

LOCATIONS FOR CURB 12 ARE APPROXIMATE BASED ON LOCATION OF EXISTING PATIO ENTRANCES AND BUILDING CORNERS.

CONTROL POINTS FOR CURB 13				
Point	Station	Offset	NORTHING	EASTING
5000	29+25.00	25.50	530868.87465	1137523.22799
5001	29+25.00	43.01	530863.83165	1137539.99171
5002	29+25.00	29.50	530867.72235	1137527.05843
5003	29+25.00	35.01	530866.13625	1137532.33085

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

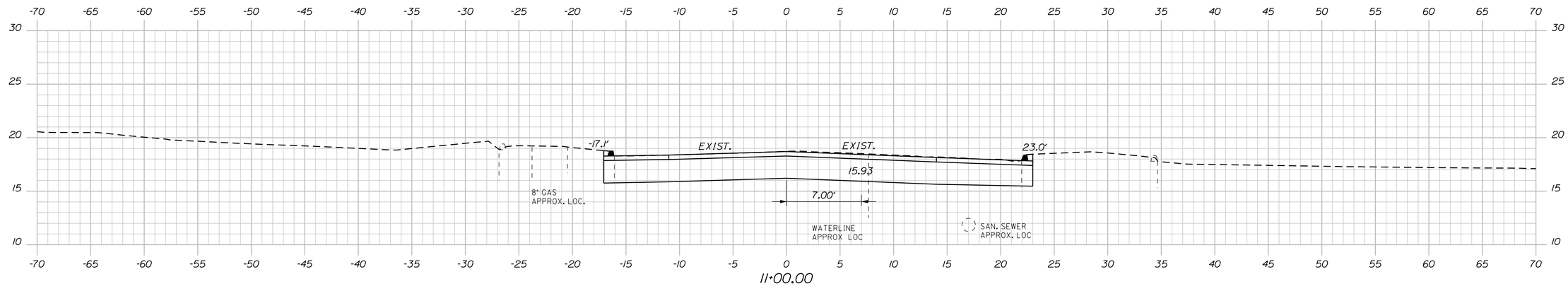
PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

GRANITE CURB LAYOUT

SHEET NUMBER
39
OF 172

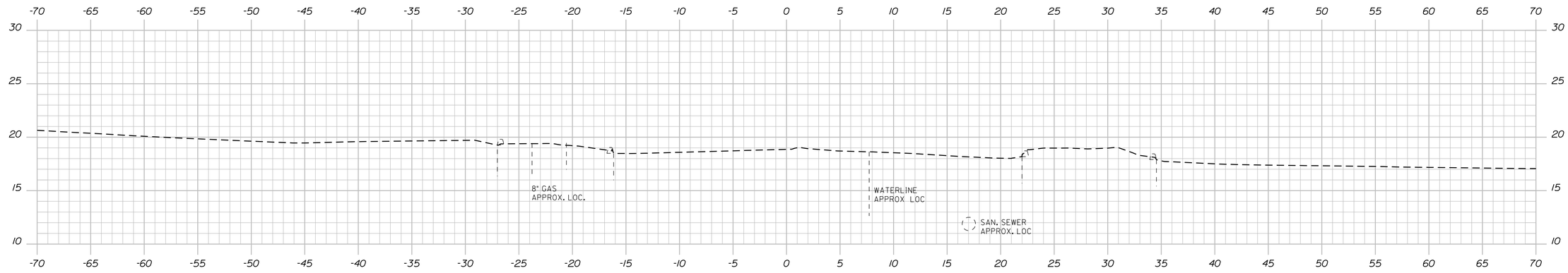
Filename: ...\039_curb_04.dgn Username: common Division: HIGHWAY Date:1/22/2018



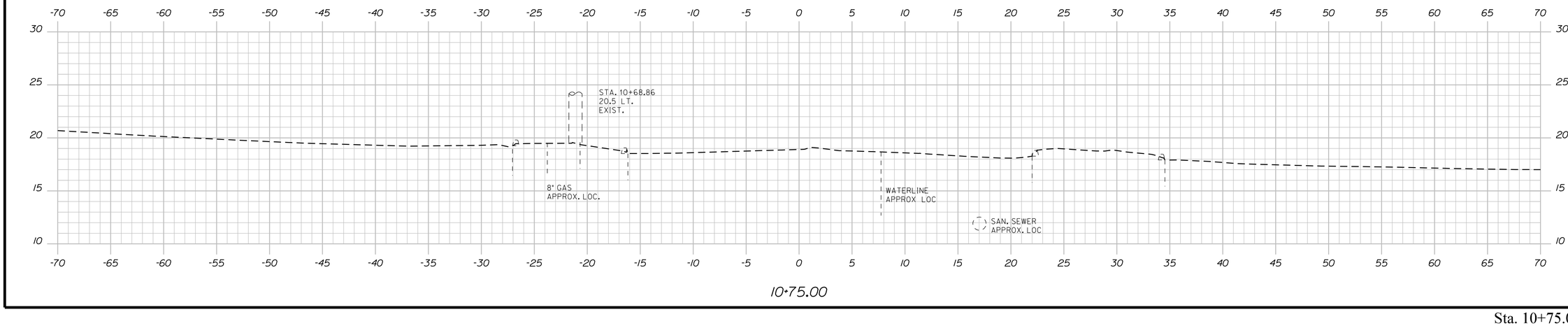
11+00.00

STA. 11+00

MATCH EXISTING SECTION



10+80.45



10+75.00

Sta. 10+75.00 to Sta. 11+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960

P.E. NUMBER
1/12/18

DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

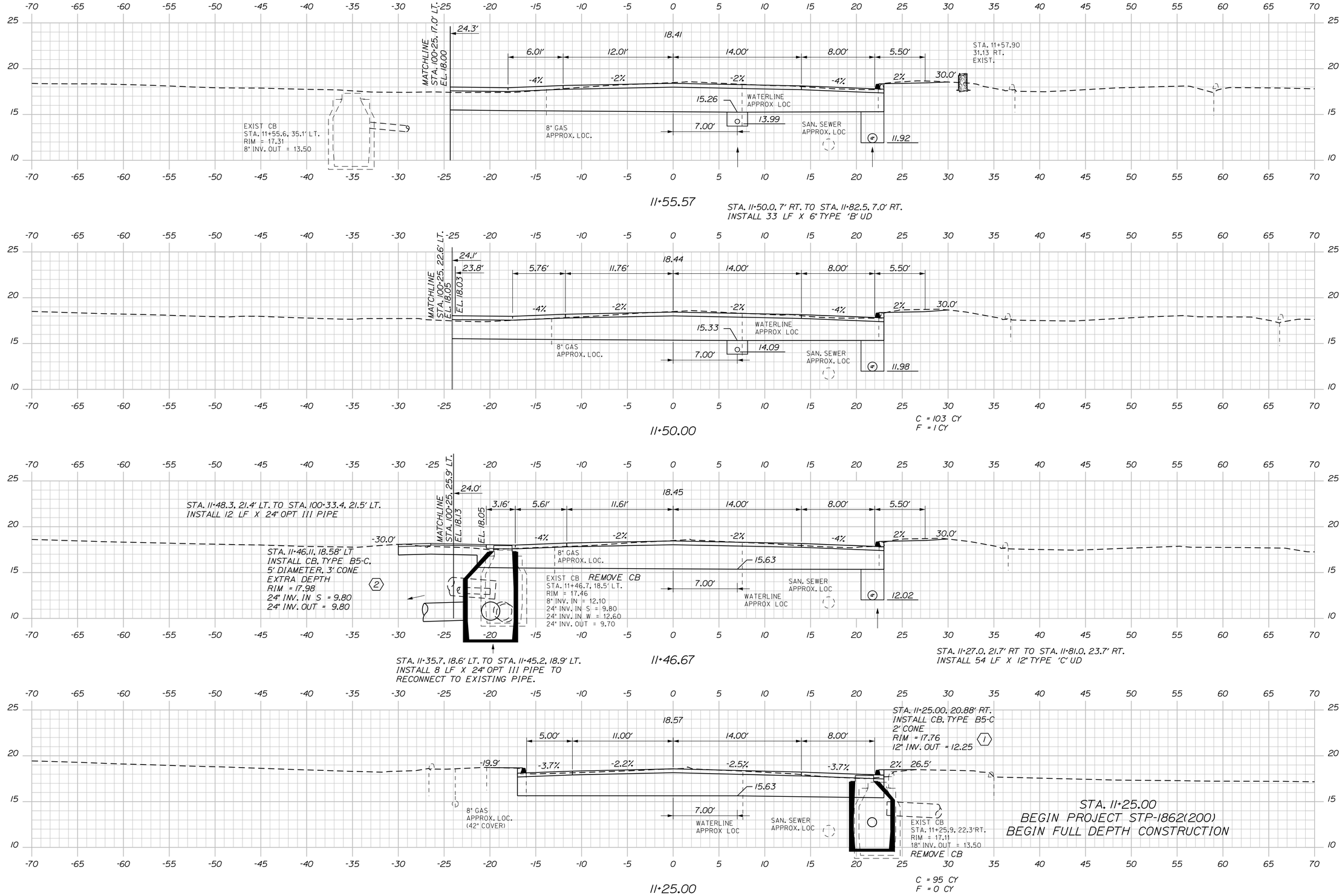
CROSS SECTIONS

SHEET NUMBER

40

OF 172

Filename: ...\040_XSECT_10-75_001.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1	1		
REVISIONS 2	2		
REVISIONS 3	3		
REVISIONS 4	4		
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

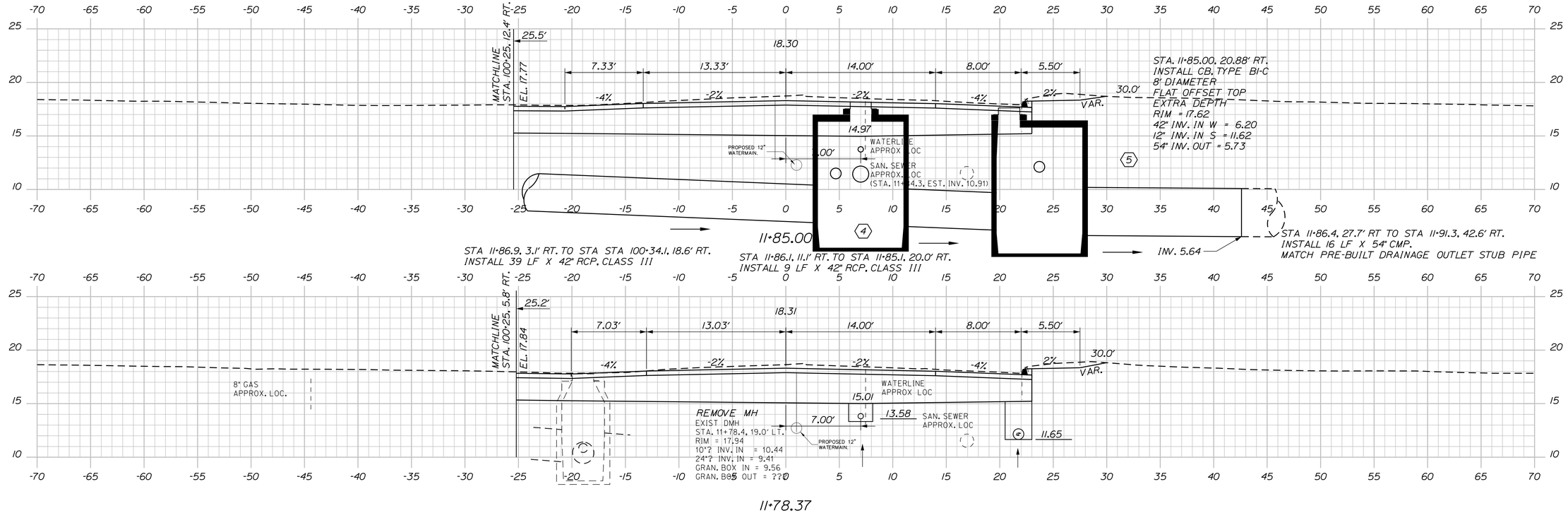
SHEET NUMBER

41

OF 172

Sta. 11+25.00 to Sta. 11+55.57

Username: common Date:1/22/2018
Division: HIGHWAY
Filename: ...\041_XSECT_11-25_002.dgn



Sta. 11+62.39 to Sta. 11+85.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

			BY	DATE
PROJ. MANAGER	ERNIE MARTIN			
DESIGN-DETAILED	ALG		JLE	1-18
CHECKED-REVIEWED	ALG			
DESIGN2-DETAILED2				
DESIGN3-DETAILED3				
REVISIONS 1		1		
REVISIONS 2		2		
REVISIONS 3		3		
REVISIONS 4		4		
FIELD CHANGES		5		

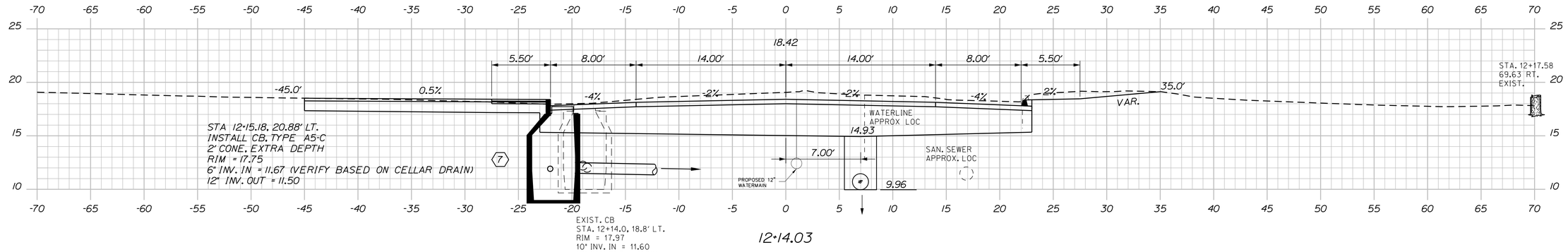
HALLOWELL
WATER STREET

CROSS SECTIONS

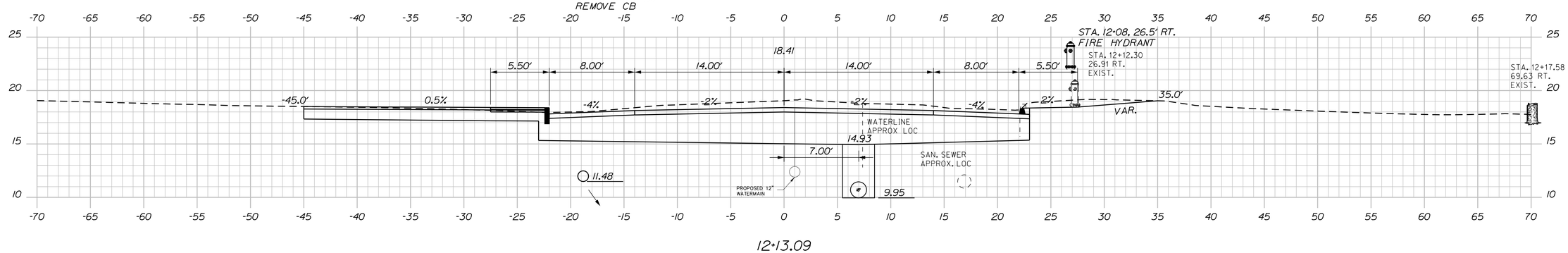
SHEET NUMBER
42
OF 172

Filename: ...\042_XSECT_11+62_003.dgn Division: HIGHWAY Username: common Date:1/22/2018

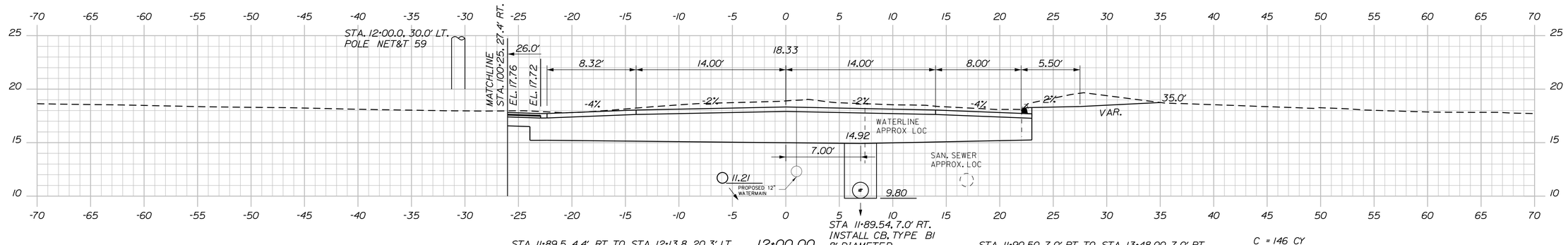
STA. 12+17.2, 21.7' LT. TO 12+44±, 31'± LT.
INSTALL 30 LF X 6" PVC WITH ELBOW
FOR CELLAR DRAIN CONNECTION.



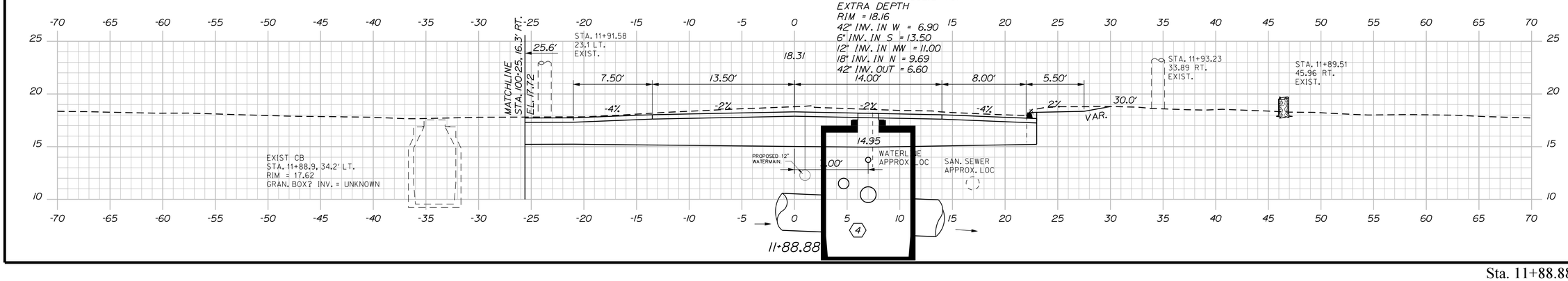
12+14.03



12+13.09



12+00.00



11+88.88

Sta. 11+88.88 to Sta. 12+14.03

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

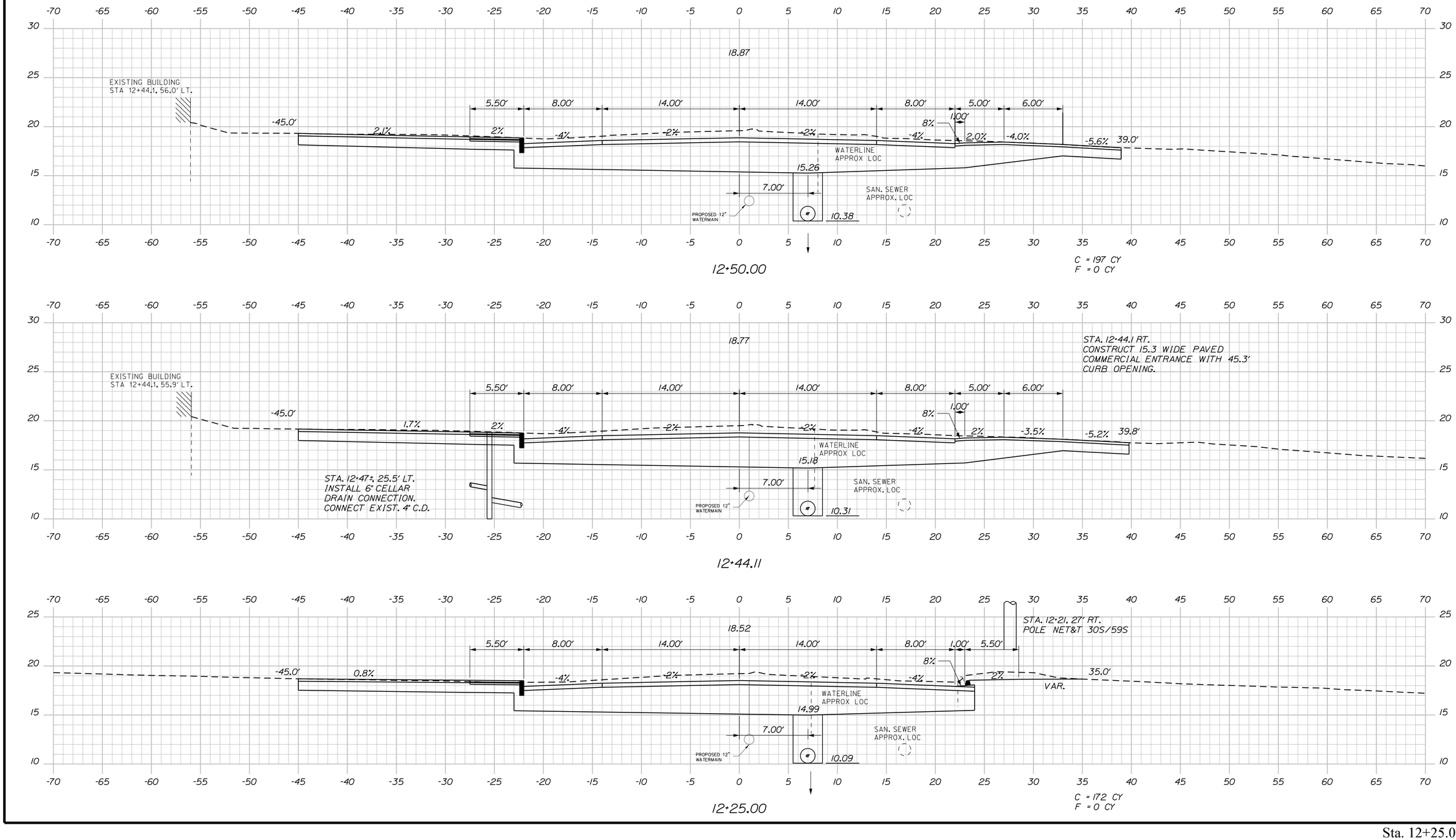
			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER
43
OF 172

Filename: ...\043_XSECT_11+88_004.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 12+25.00 to Sta. 12+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

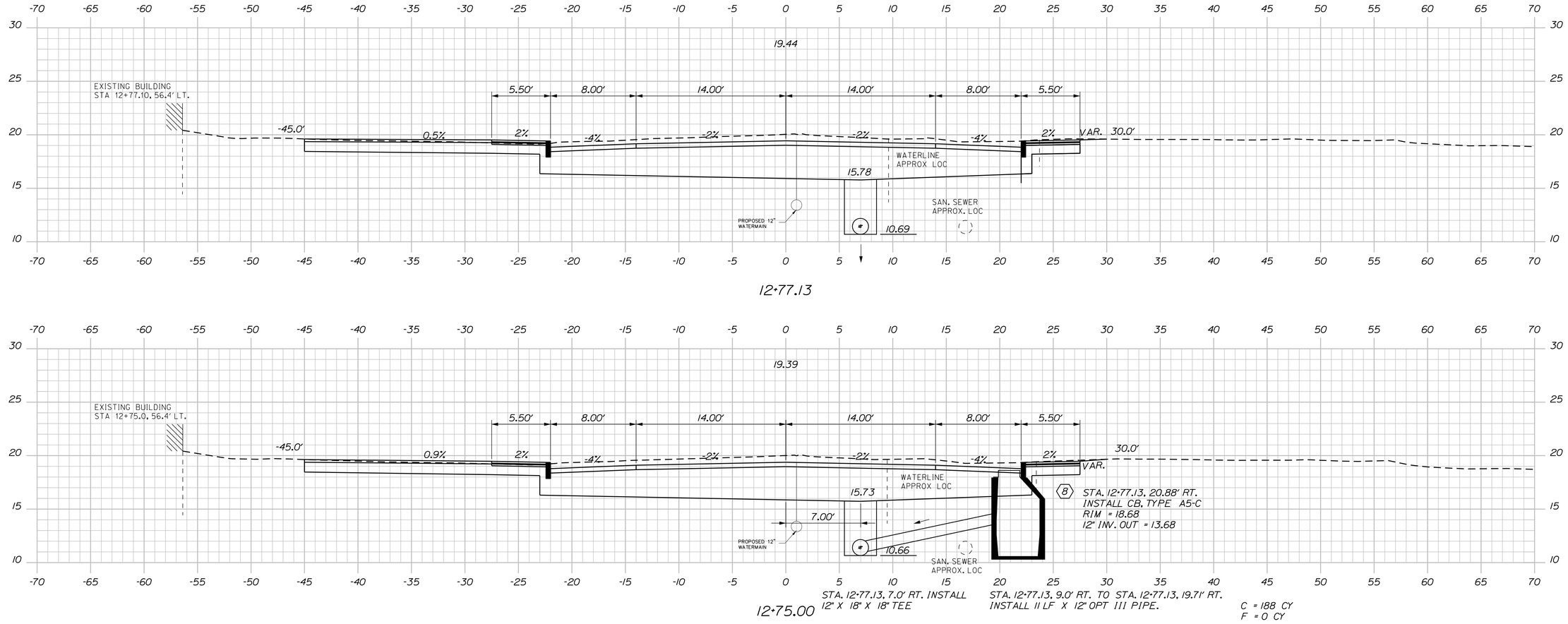
CROSS SECTIONS

SHEET NUMBER

44

OF 172

Filename: ...\044_XSECT_12+25_005.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 12+54.59 to Sta. 12+77.13

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

	SIGNATURE
	7960
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

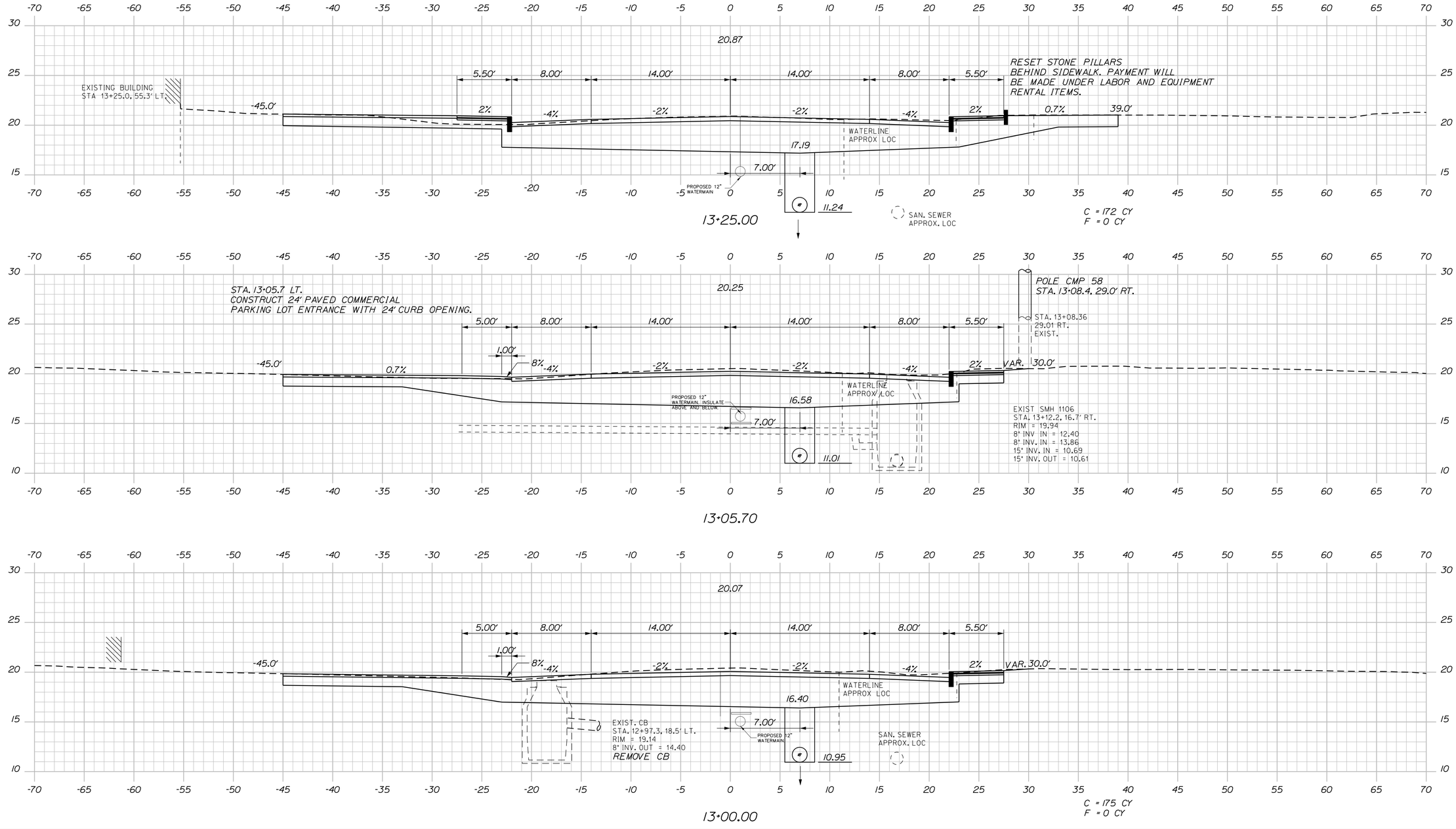
CROSS SECTIONS

SHEET NUMBER

45

OF 172

Filename: ...\045_XSECT_12+54_006.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE

7960 P.E. NUMBER

1/12/18 DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

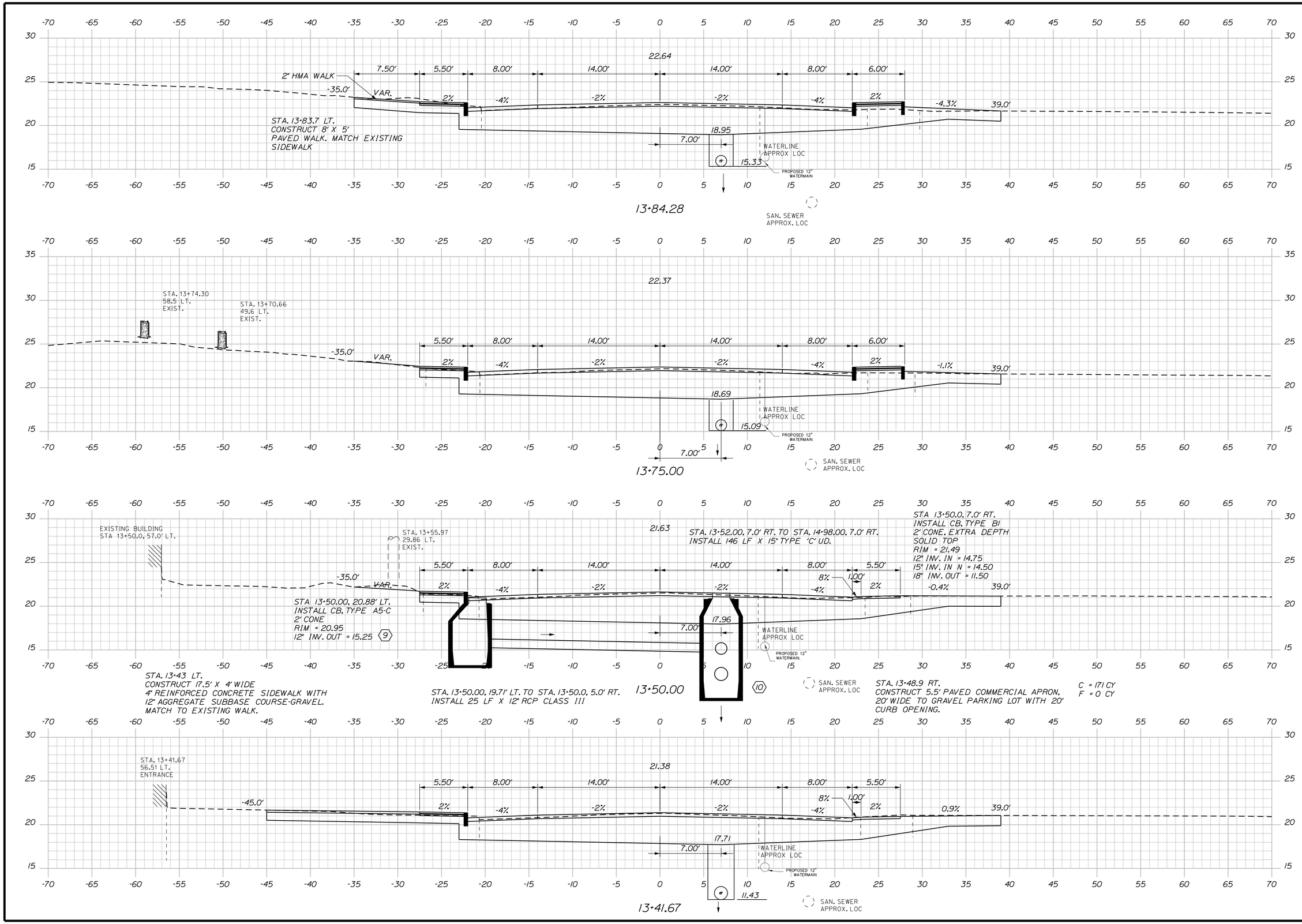
SHEET NUMBER

46

OF 172

Sta. 13+00.00 to Sta. 13+25.00

Filename: ...\046_XSECT_13+00_007.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 13+41.67 to Sta. 13+84.28

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

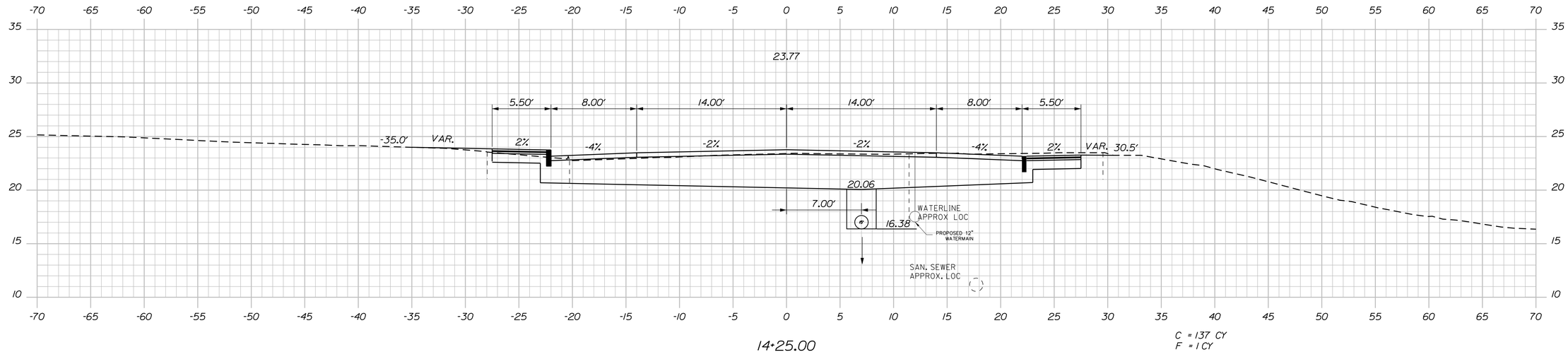
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
WATER STREET

CROSS SECTIONS

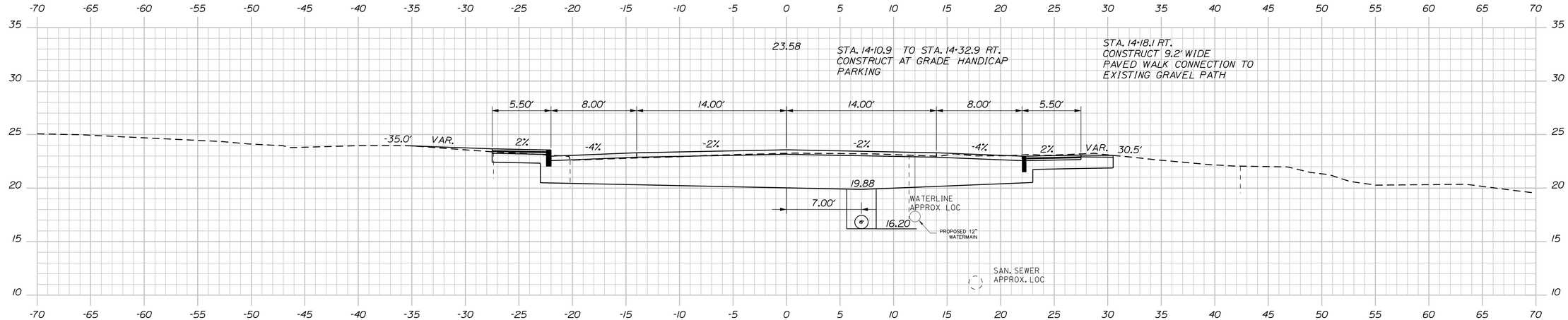
SHEET NUMBER
47
OF 172

Date:1/22/2018
Username: common
Division: HIGHWAY
Filename: ...\047_XSECT_13+41_008.dgn

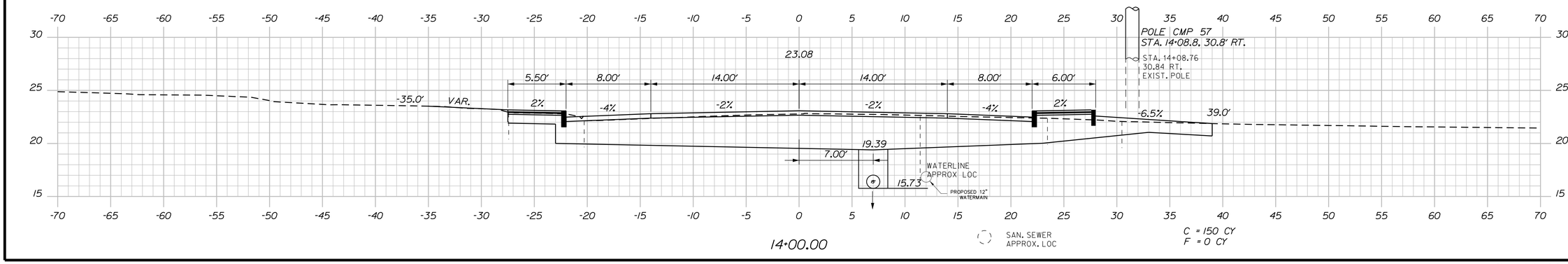


14+25.00

C = 137 CY
F = 1 CY



14+18.17



14+00.00

C = 150 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

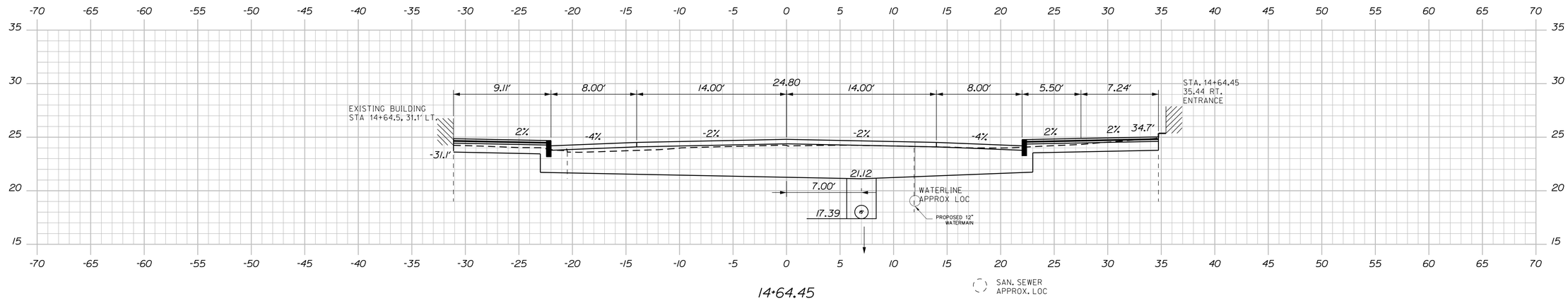
SHEET NUMBER

48

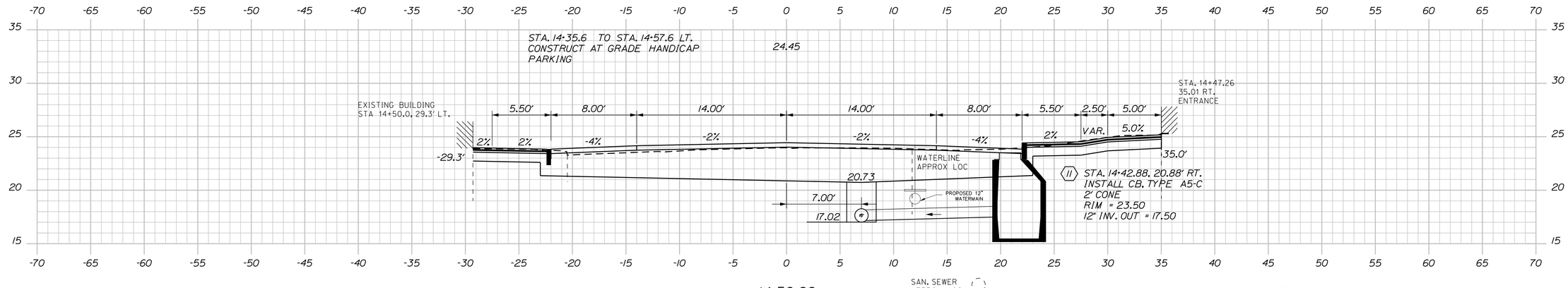
OF 172

Sta. 14+00.00 to Sta. 14+25.00

Filename: ...\048_XSECT_14+00_009.dgn Division: HIGHWAY Username: common Date:1/22/2018



14+64.45

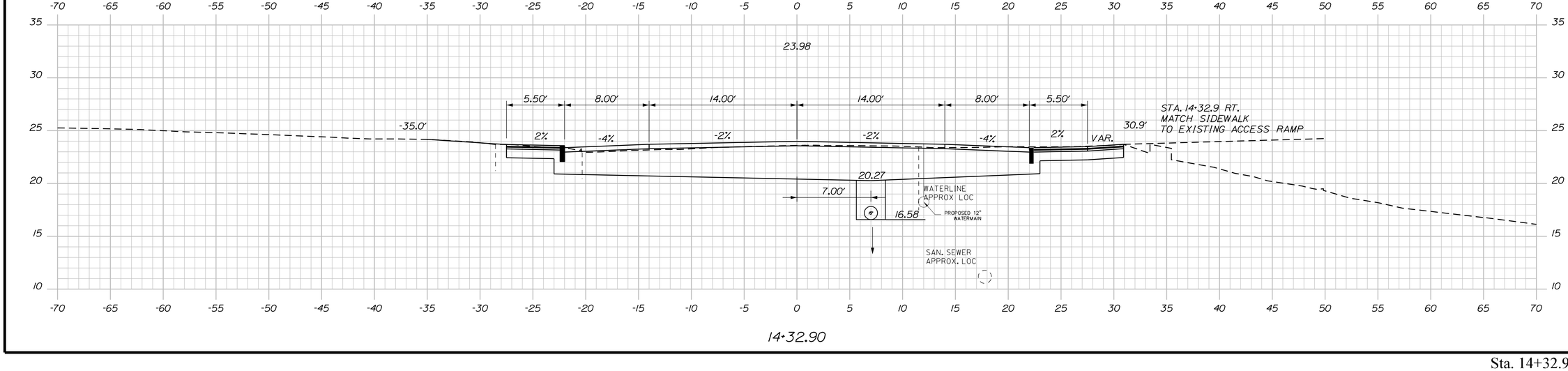


14+50.00

STA. 14+42.88, 7.0' RT. INSTALL
12" X 15" X 15" TEE

STA. 14+42.88, 9.0' TO STA. 14+42.88, 19.71' RT.
INSTALL 11 LF X 12" OPT III PIPE.

C = 135 CY
F = 1 CY



14+32.90

Sta. 14+32.90 to Sta. 14+64.45

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

	SIGNATURE
	7960
	P.E. NUMBER
	1/12/18
	DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

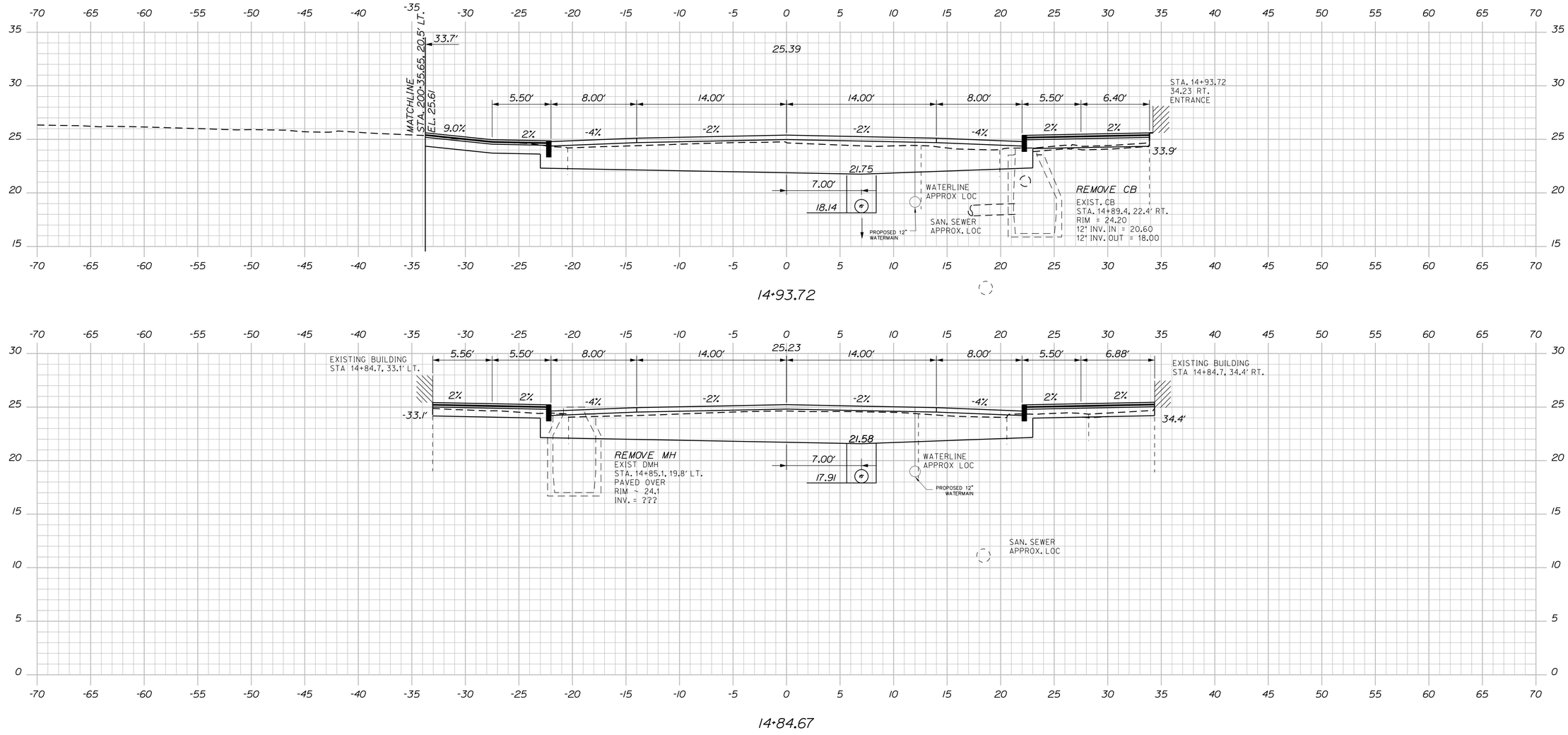
CROSS SECTIONS

SHEET NUMBER

49

OF 172

Filename: ...\049_XSECT_14+32_010.dgn Username: common Division: HIGHWAY Date:1/22/2018



Filename: ...\050_XSECT_14+75_062.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON · No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

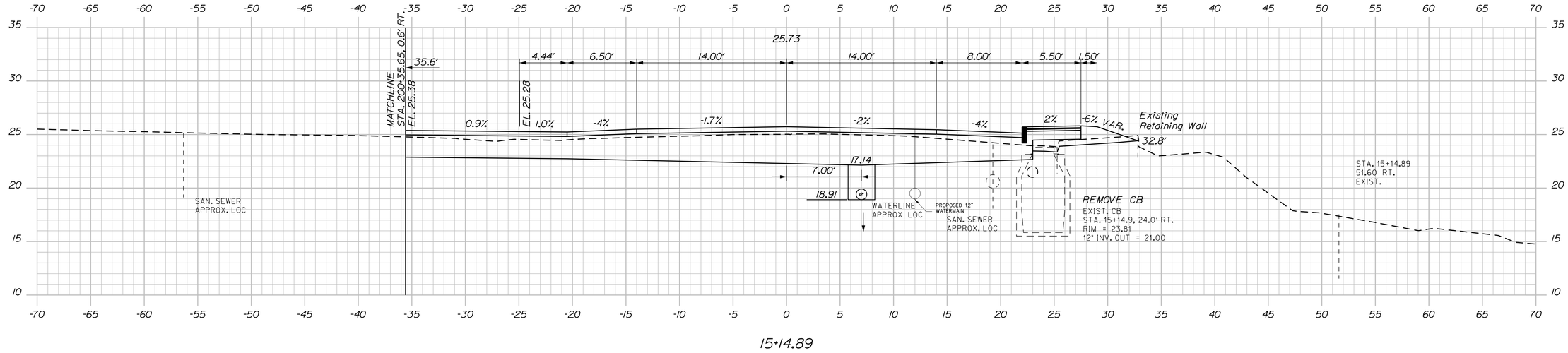
CROSS SECTIONS

SHEET NUMBER

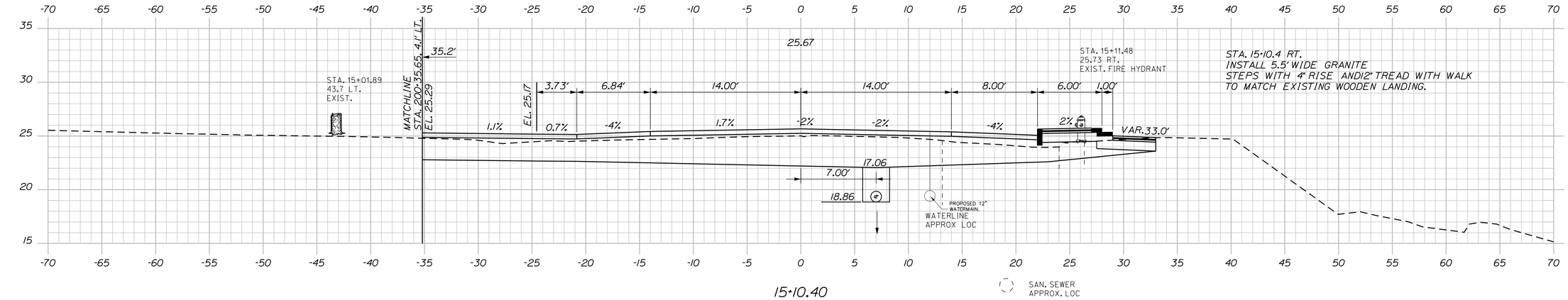
50

OF 172

Sta. 14+75.00 to Sta. 14+93.72



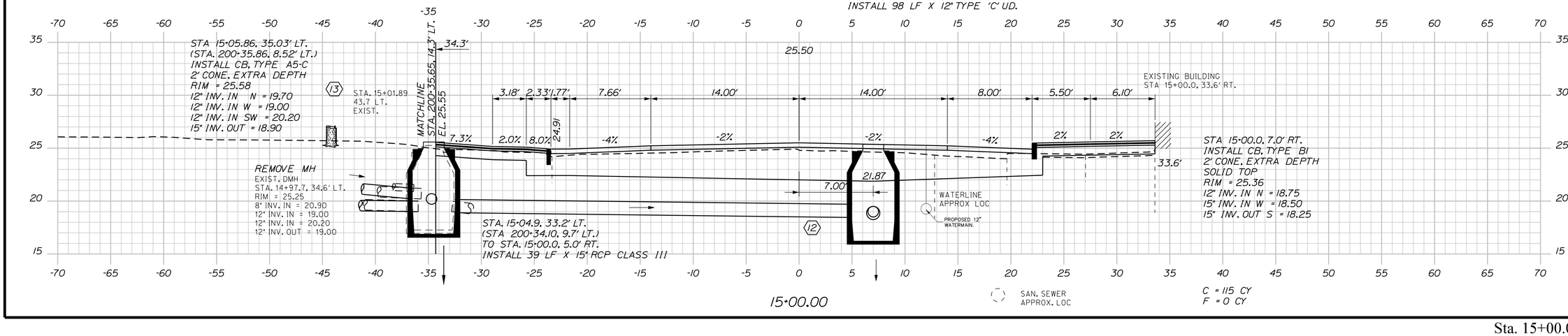
15+14.89



15+10.40

SAN. SEWER
APPROX. LOC

STA. 15+02.0, 7.0' RT. TO STA. 16+00.0, 7.0' RT.
INSTALL 98 LF X 12" TYPE 'C' UD.



15+00.00

SAN. SEWER
APPROX. LOC

C = 115 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	JLE	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

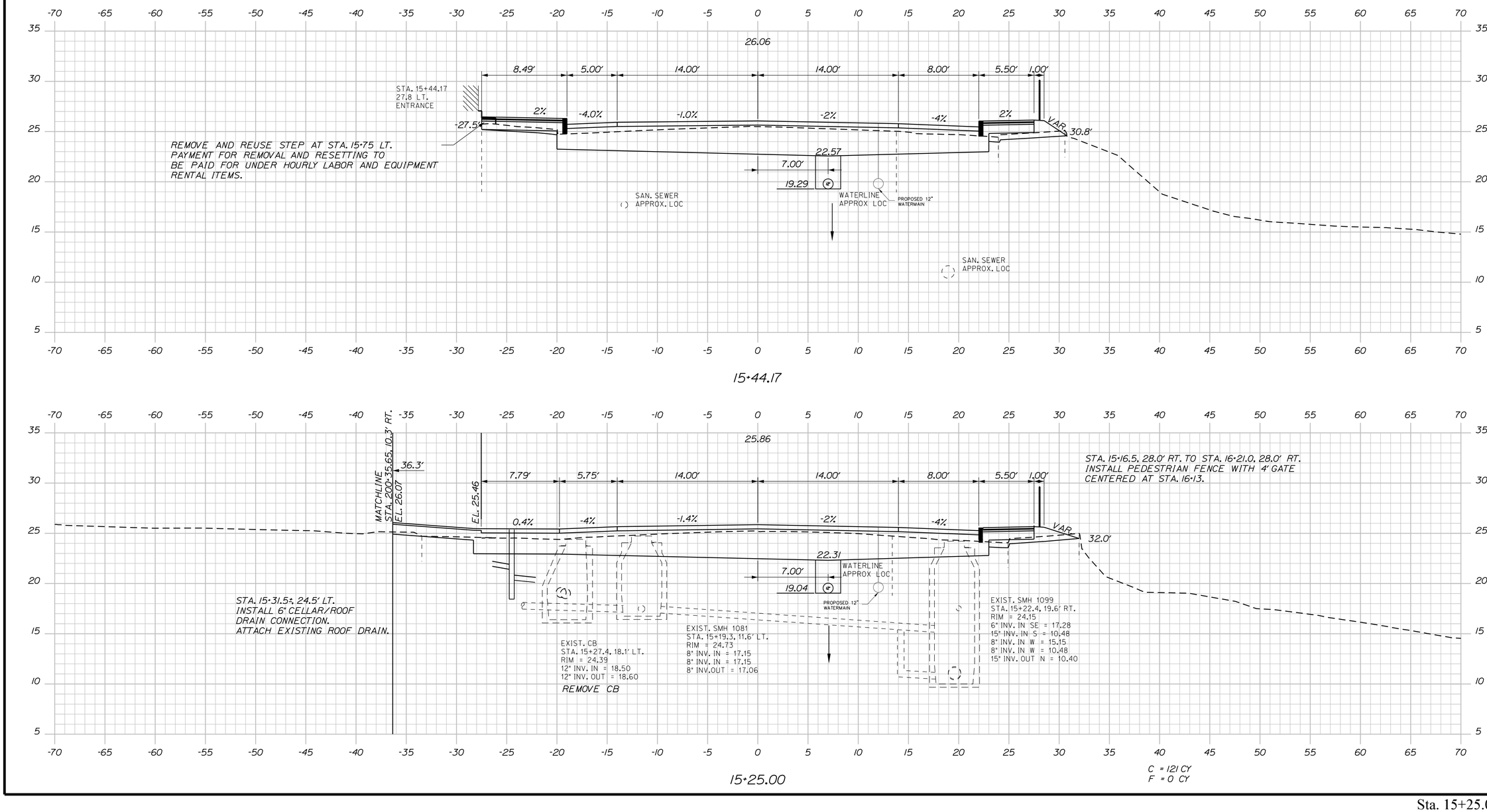
51

OF 172

Sta. 15+00.00 to Sta. 15+14.89

Filename: ...\051_XSECT_15+00_011.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\052_XSECT_15+25_012.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 15+25.00 to Sta. 15+44.17

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE

7960 P.E. NUMBER

1/12/18 DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	JLE 1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

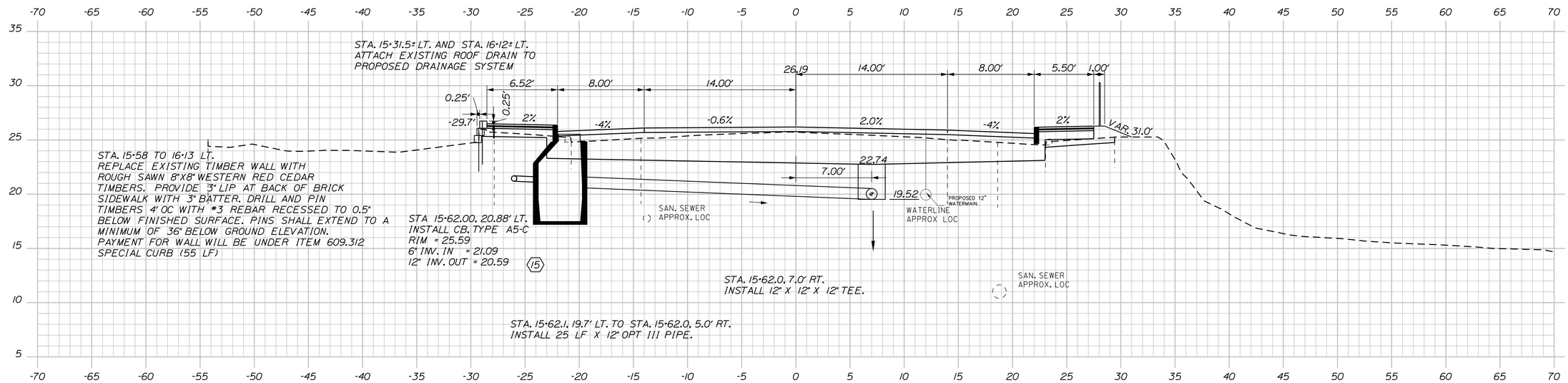
CROSS SECTIONS

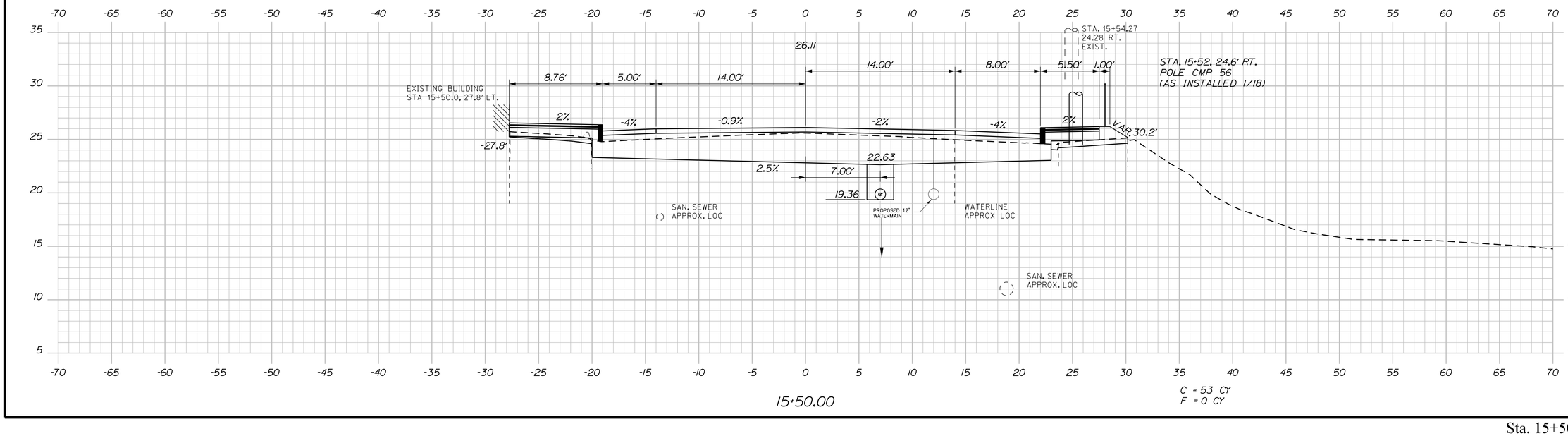
SHEET NUMBER

52

OF 172

Date:1/22/2018
Username: common
Division: HIGHWAY
Filename: ...\053_XSECT_15+50_013.dgn





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON · No. 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

53

OF 172

Sta. 15+50.00 to Sta. 15+52.02

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED
PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	JLE	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

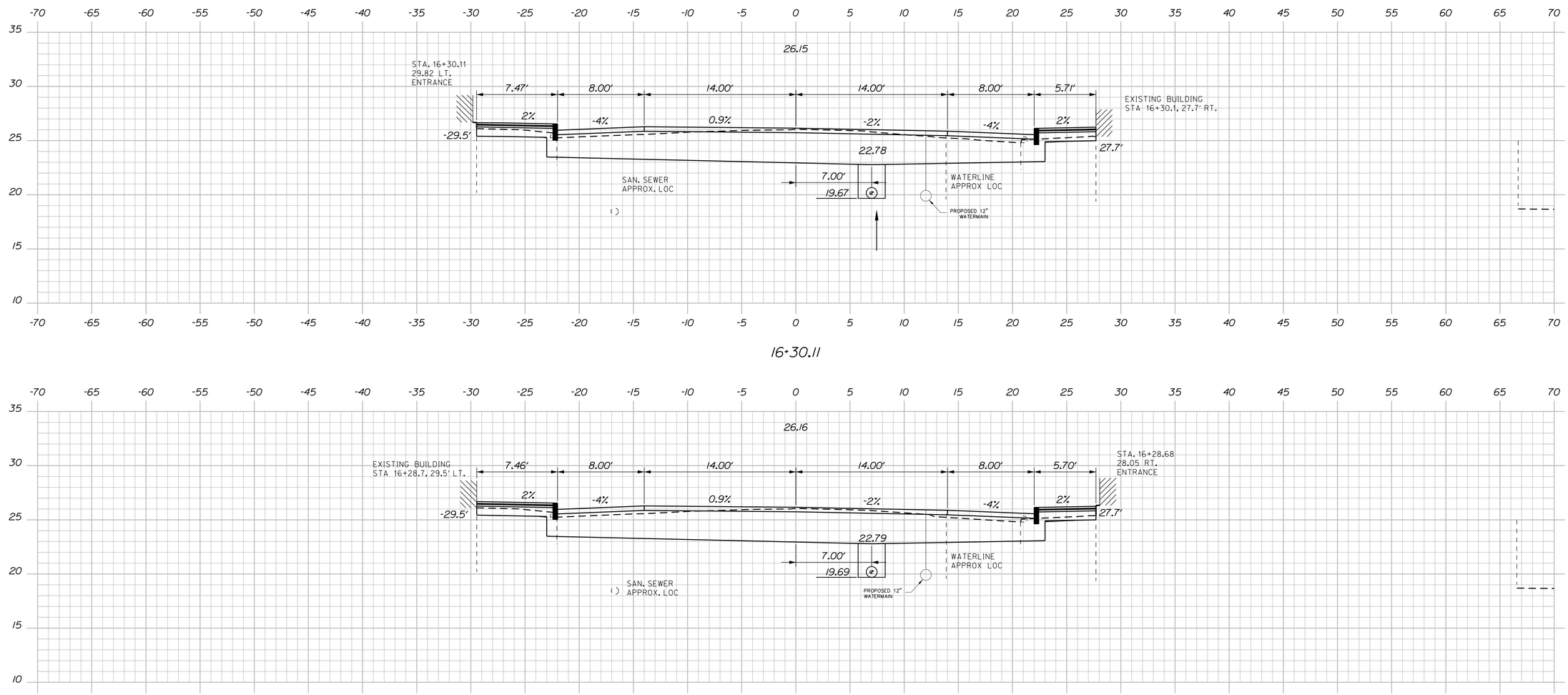
SHEET NUMBER

54

OF 172

Filename: ...\054_XSECT_15+75_014.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 15+75.00 to Sta. 16+12.54



16+30.11

16+28.68

16+25.00

C = 107 CY
F = 1 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

HALLOWELL
WATER STREET

CROSS SECTIONS

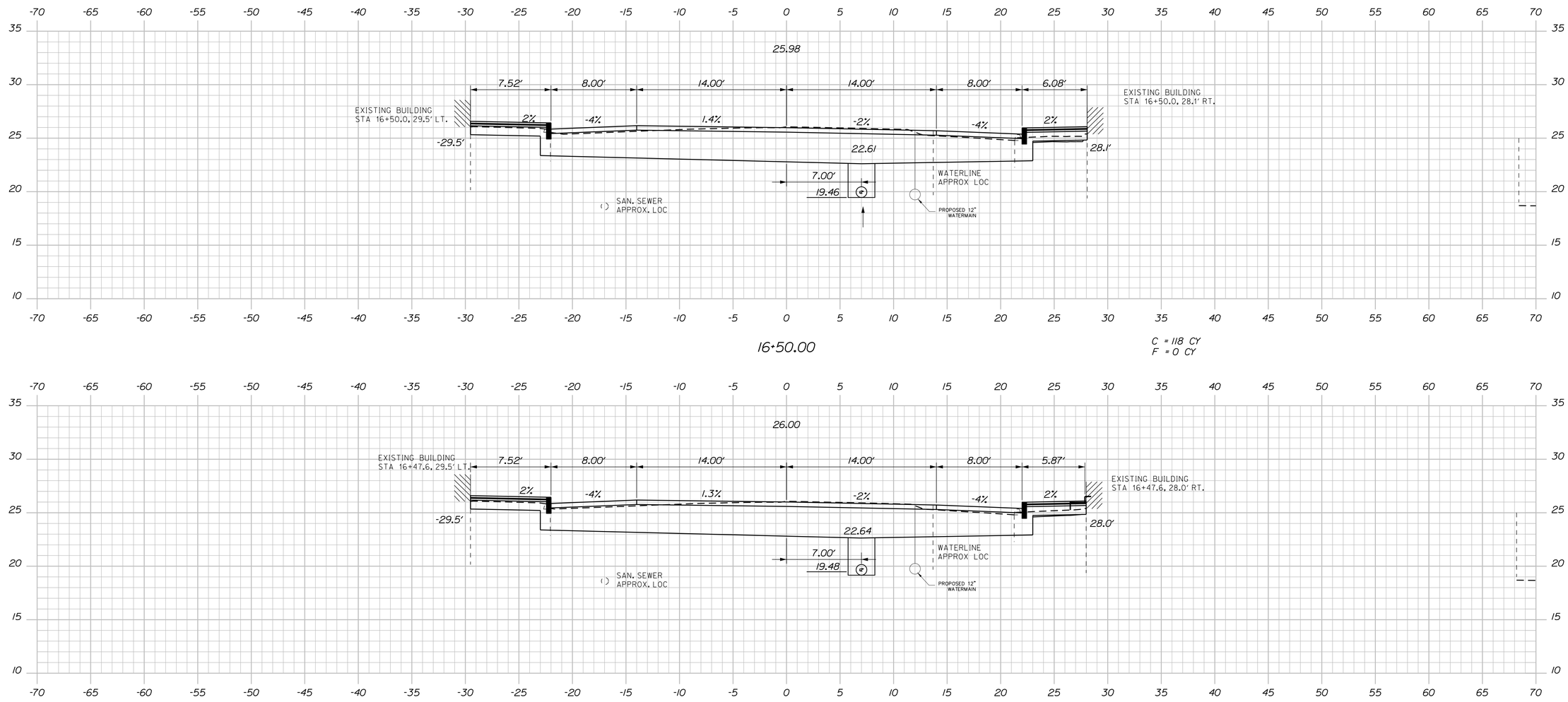
SHEET NUMBER

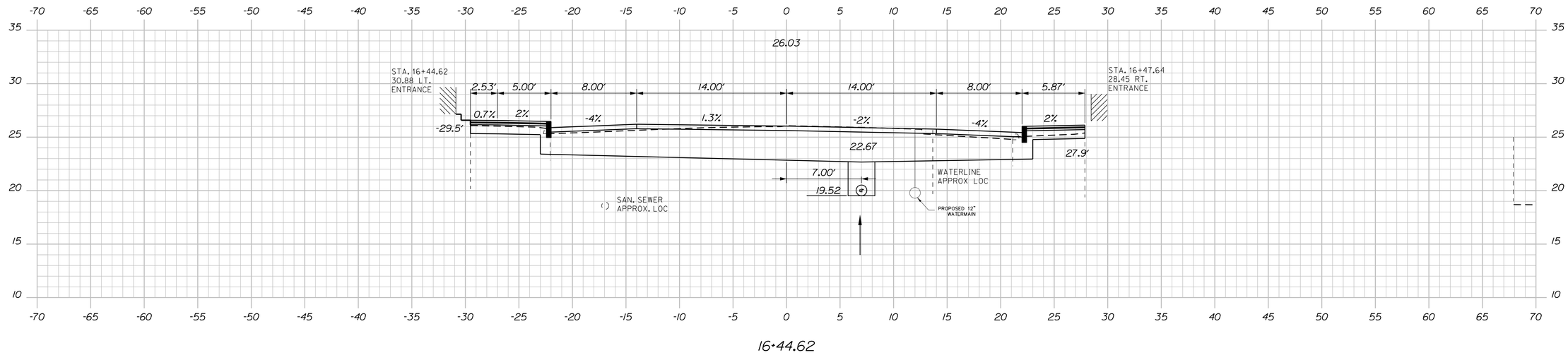
55

OF 172

Date:1/22/2018
Username: common
Division: HIGHWAY
Filename: ...\055_XSECT_16+25_015.dgn

Sta. 16+25.00 to Sta. 16+30.11





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

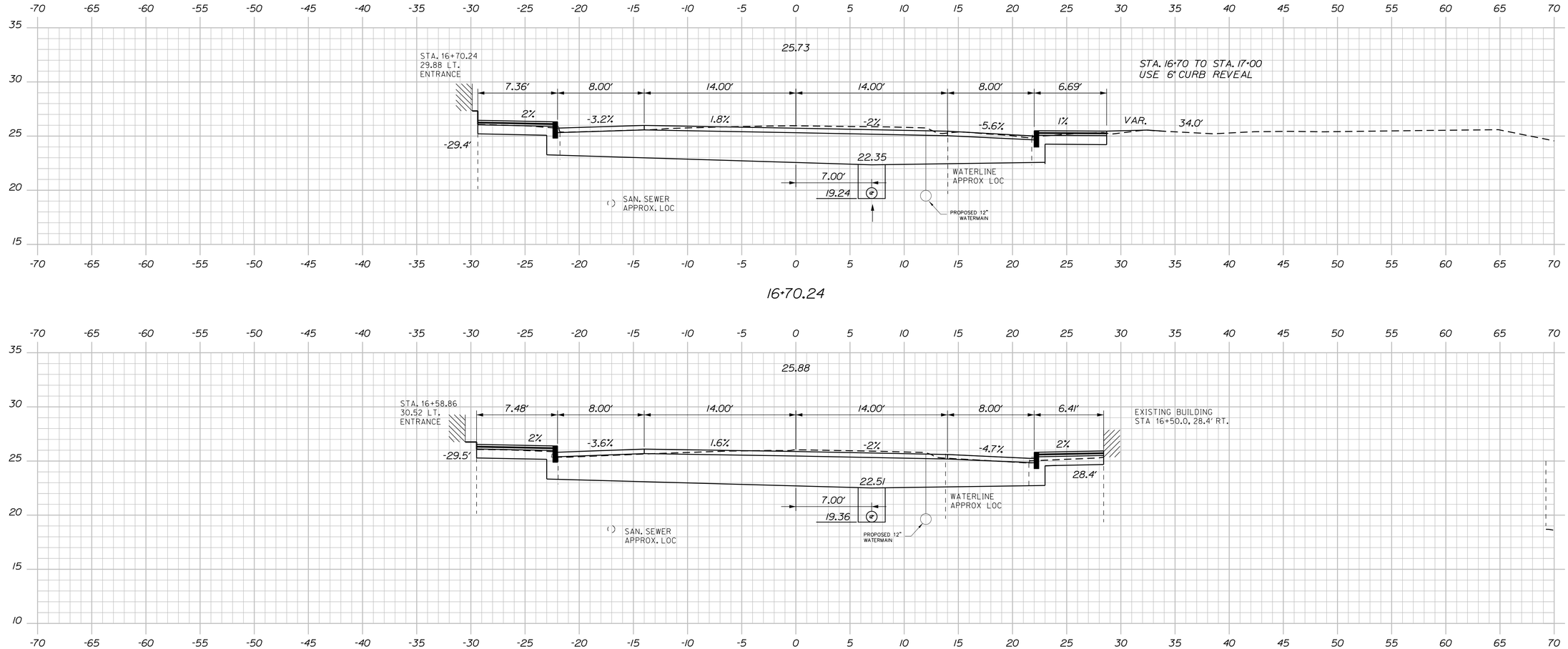
HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER
56
OF 172

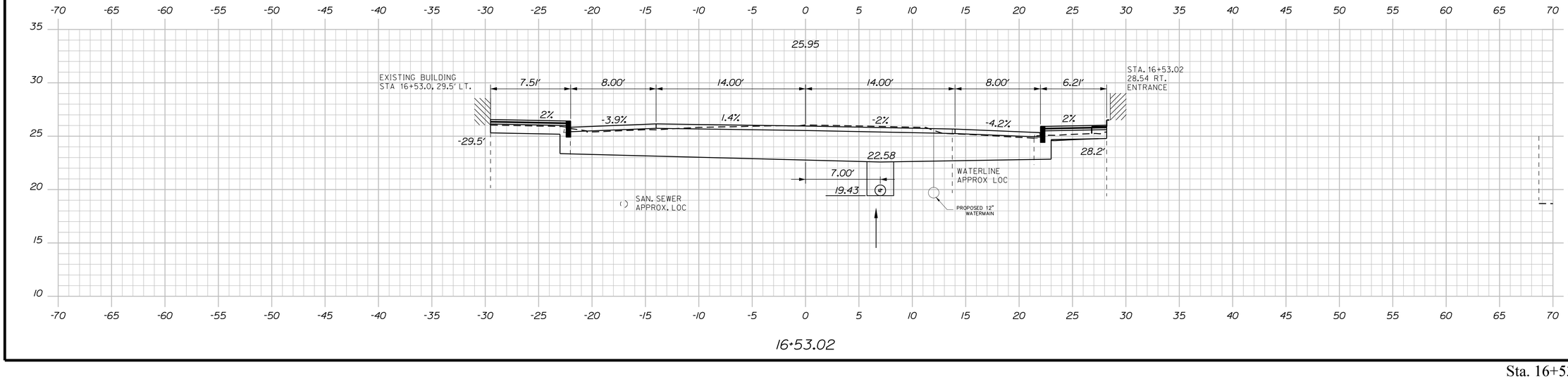
Sta. 16+44.62 to Sta. 16+50.00

Filename: ...\056_XSECT_16+44_016.dgn Division: HIGHWAY Username: common Date:1/22/2018



16+70.24

16+58.86



16+53.02

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	P.E. NUMBER
			1/12/18
			DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

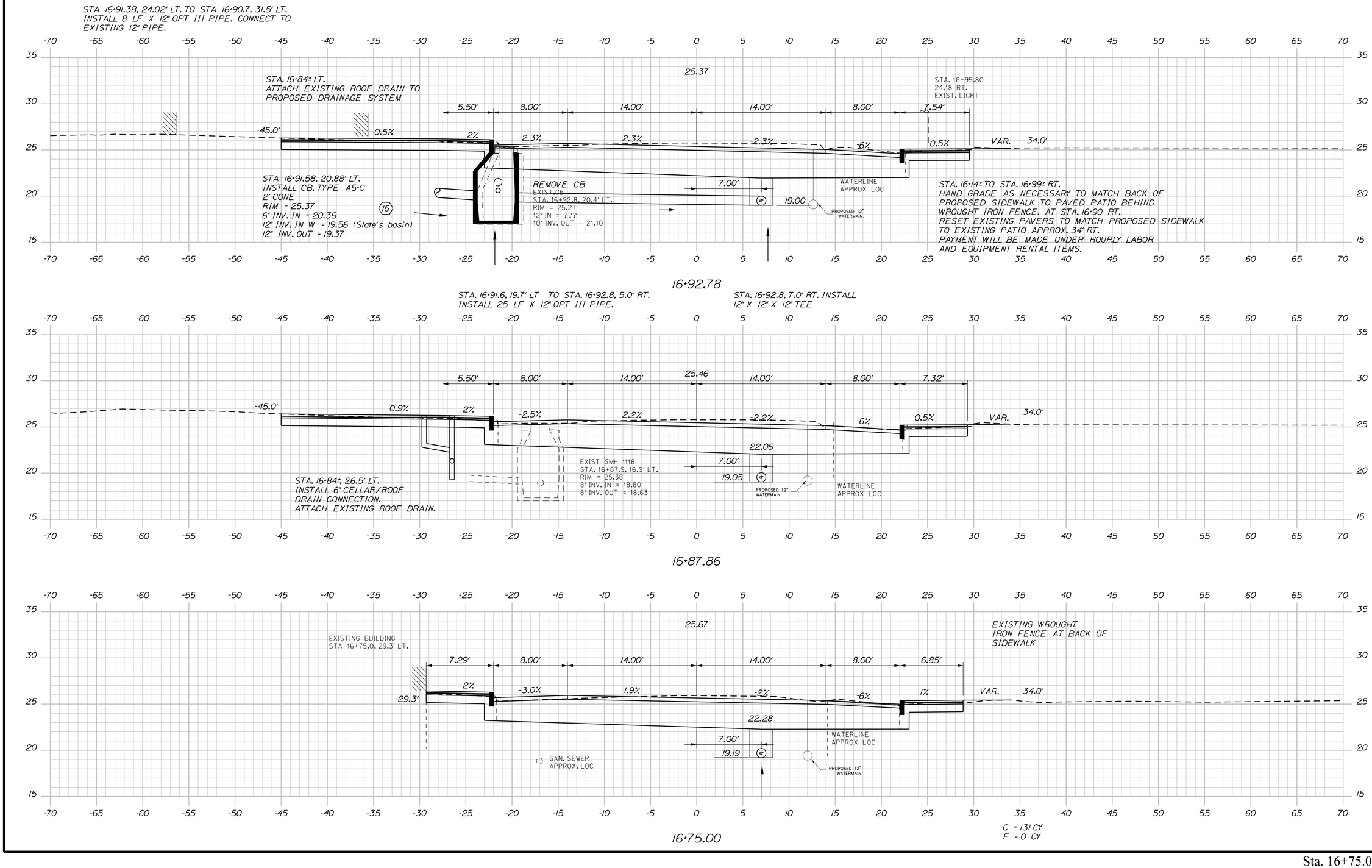
SHEET NUMBER

57

OF 172

Filename: ...\057_XSECT_16+53_017.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 16+53.02 to Sta. 16+70.24



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

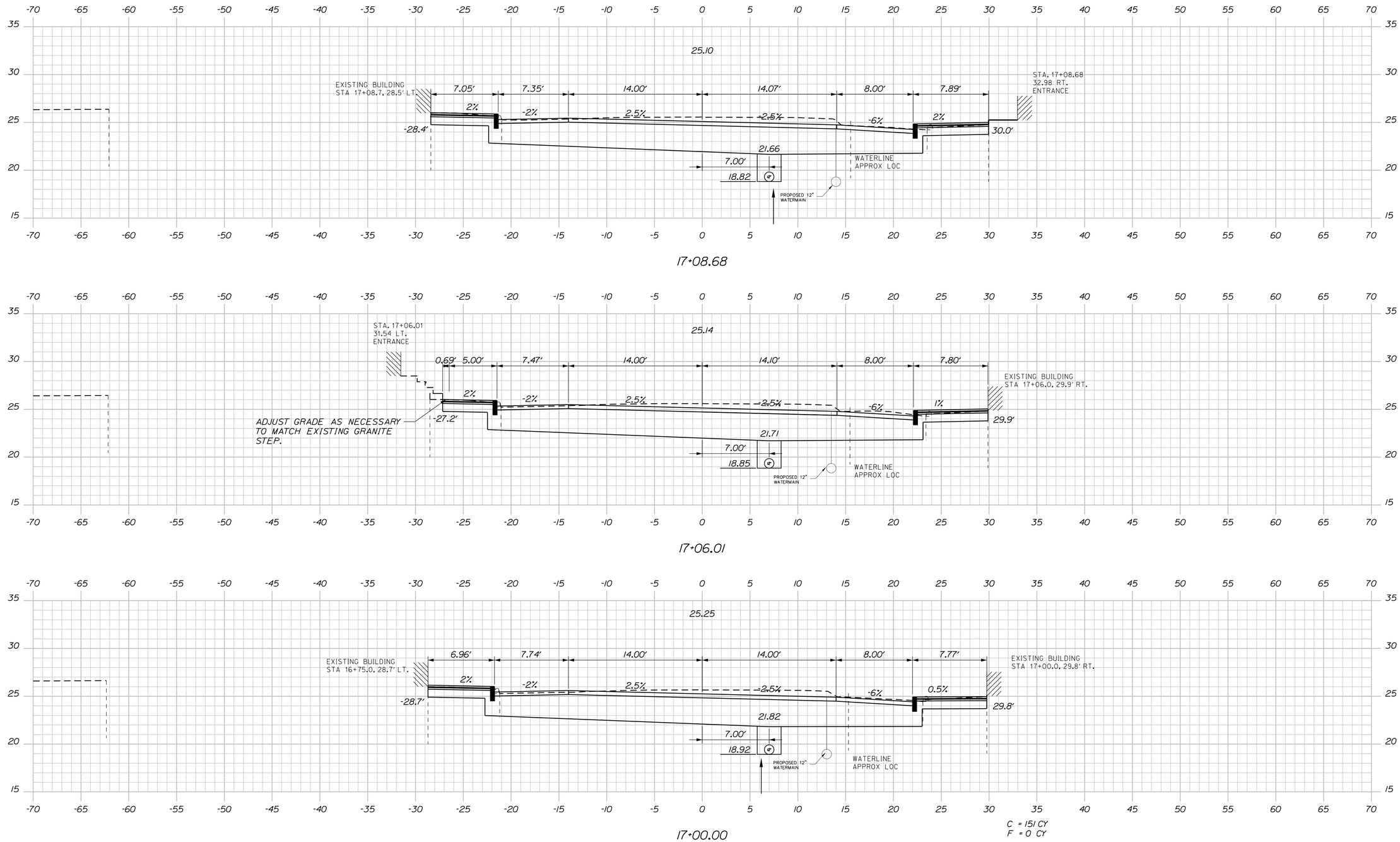
SHEET NUMBER

58

OF 172

Sta. 16+75.00 to Sta. 16+92.78

Filename: ...\058_XSECT_16-75_018.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 17+00.00 to Sta. 17+08.68

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		1-18
REVISIONS 2		1-18
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

59

OF 172

Filename: ...\059_XSECT_17+00_019.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE

7960

P.E. NUMBER

1/12/18

DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

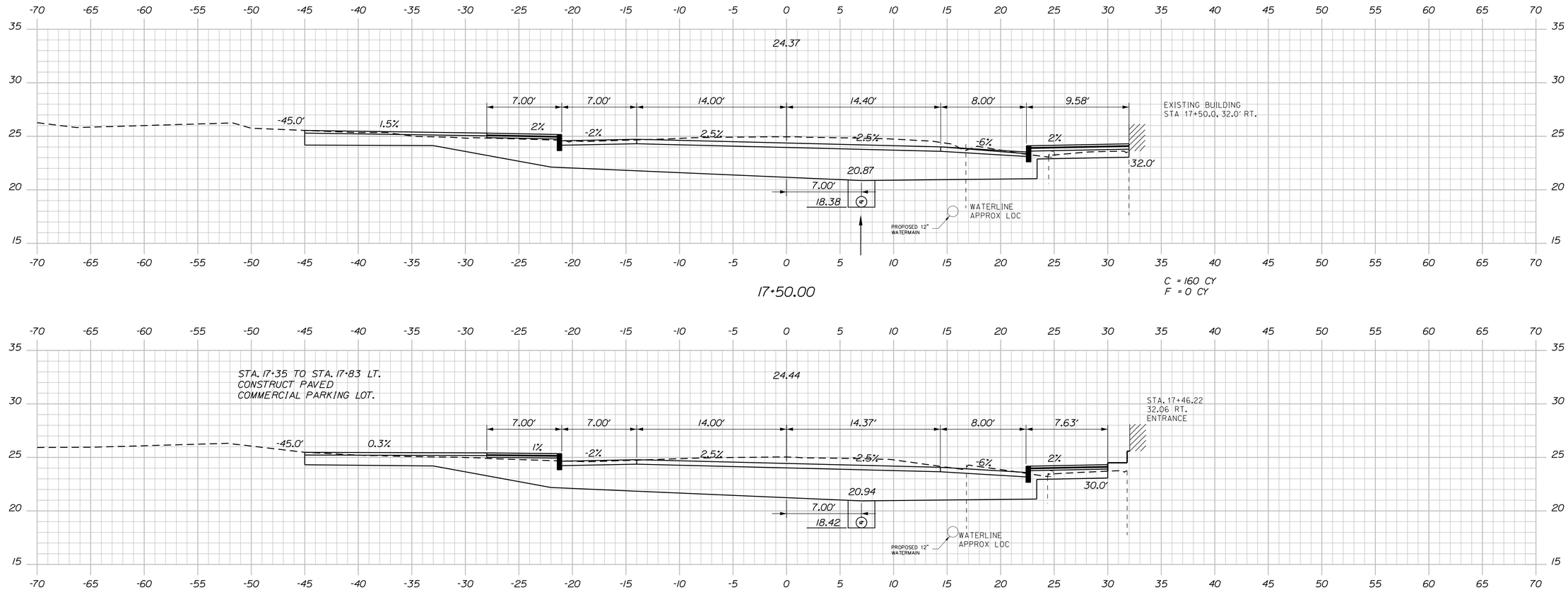
SHEET NUMBER

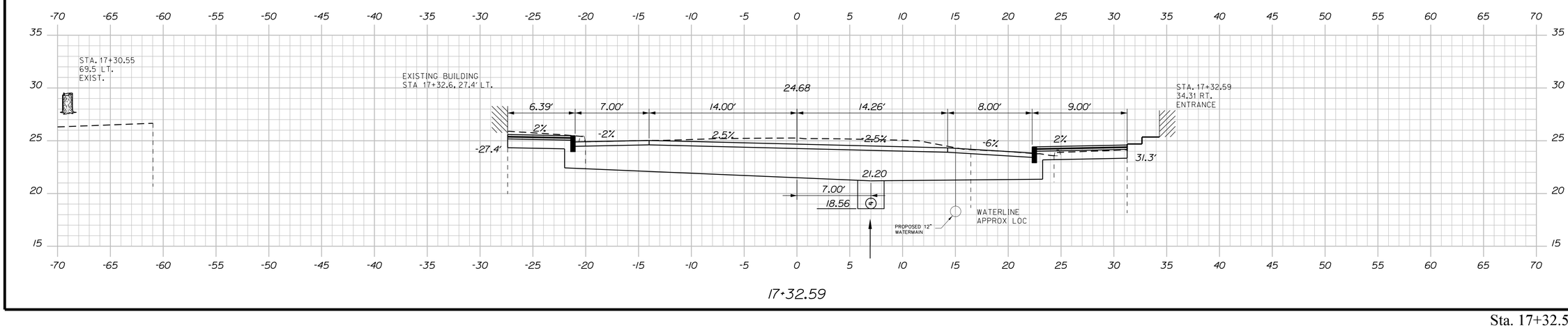
60

OF 172

Sta. 17+17.33 to Sta. 17+26.79

Filename: ...\060_XSECT_17+17_020.dgn Division: HIGHWAY Username: common Date:1/22/2018





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

HALLOWELL WATER STREET

CROSS SECTIONS

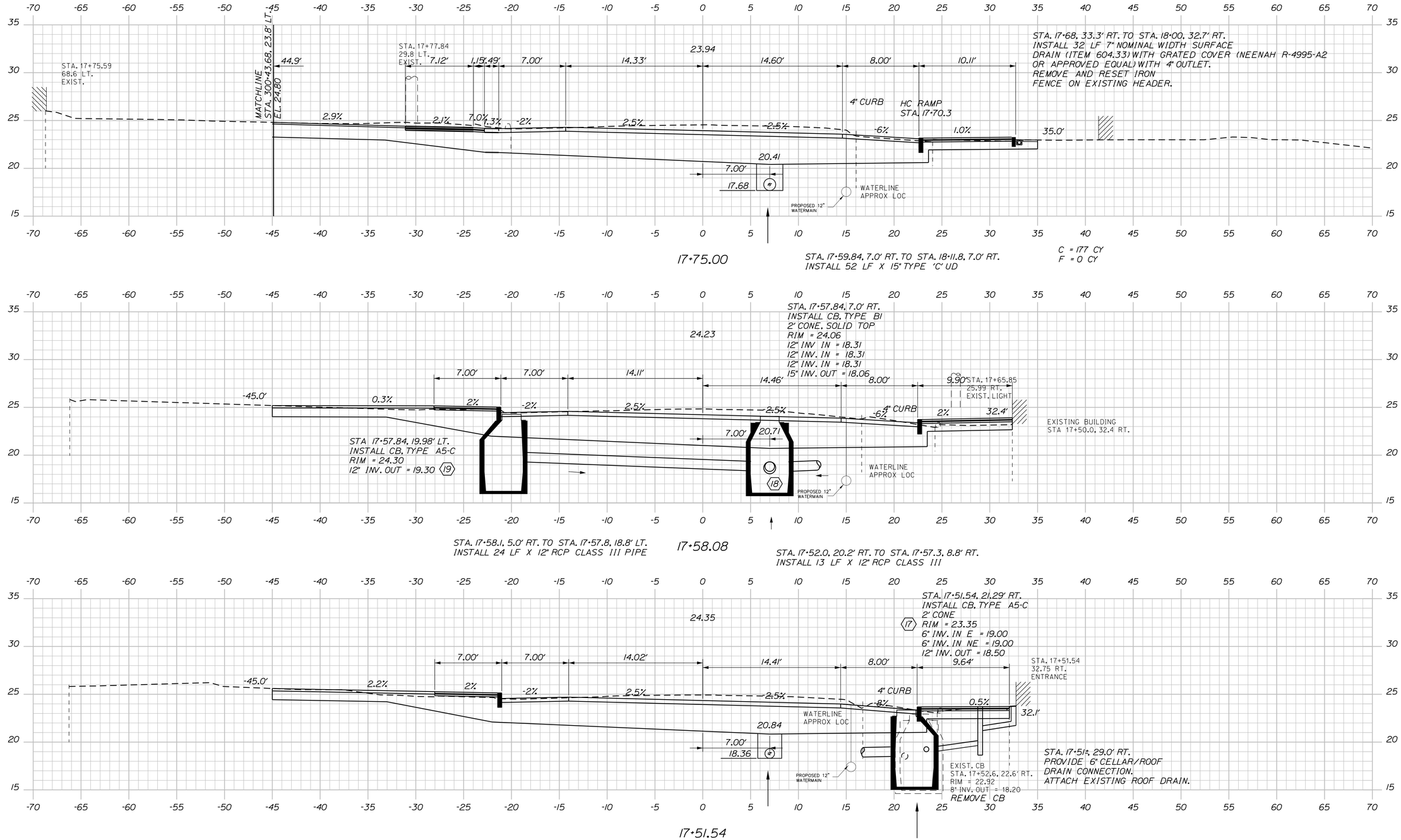
SHEET NUMBER

61

OF 172

Filename: ...\061_XSECT_17+32_021.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 17+32.59 to Sta. 17+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES E. JAMESON No. 7960 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
7960	P.E. NUMBER
1/12/18	DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

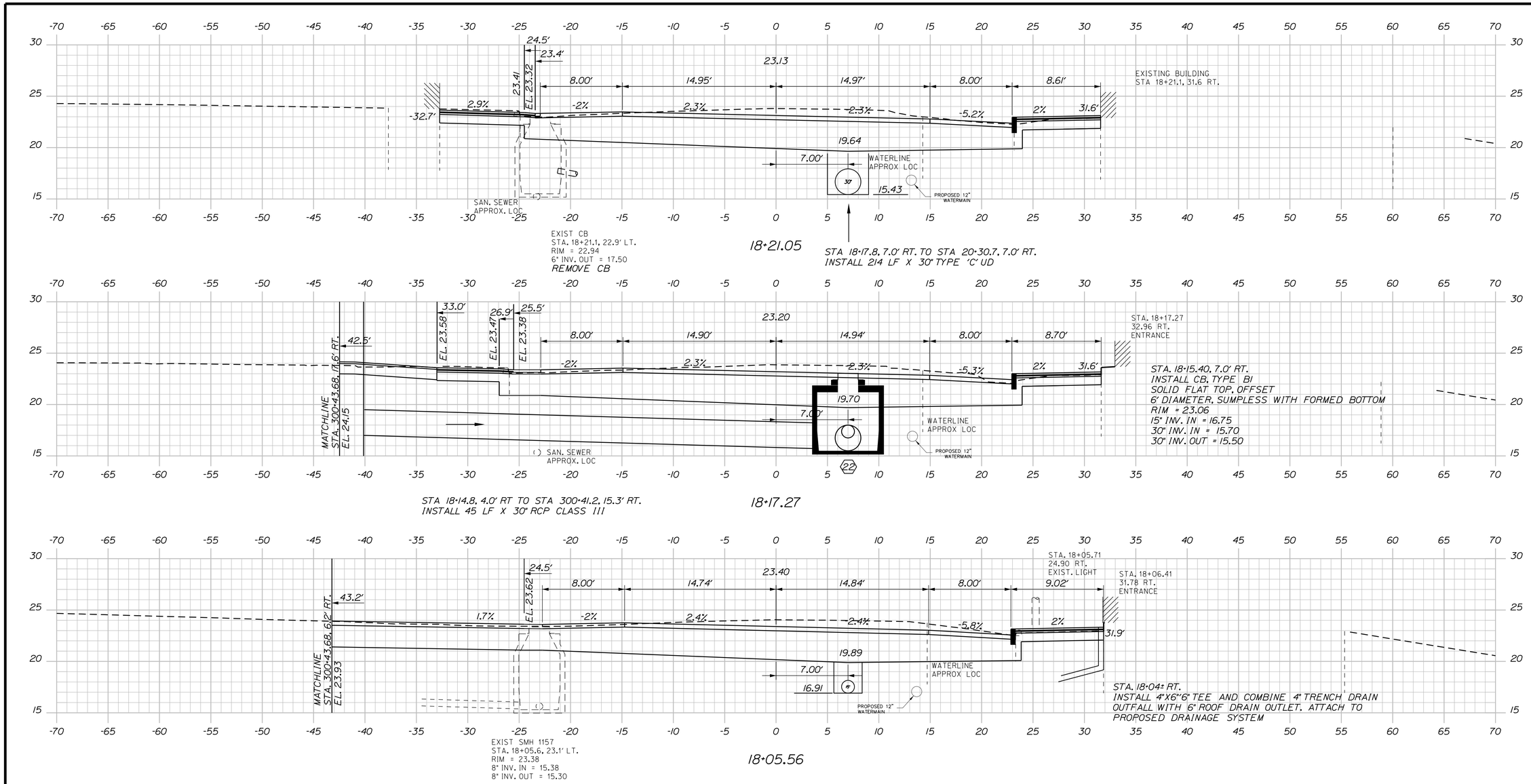
SHEET NUMBER

62

OF 172

Date:1/22/2018 Username: common Division: HIGHWAY Filename: ...\062_XSECT_17-51_022.dgn

Sta. 17+51.54 to Sta. 17+75.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALC	JLE	1-18
CHECKED-REVIEWED	ALC		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

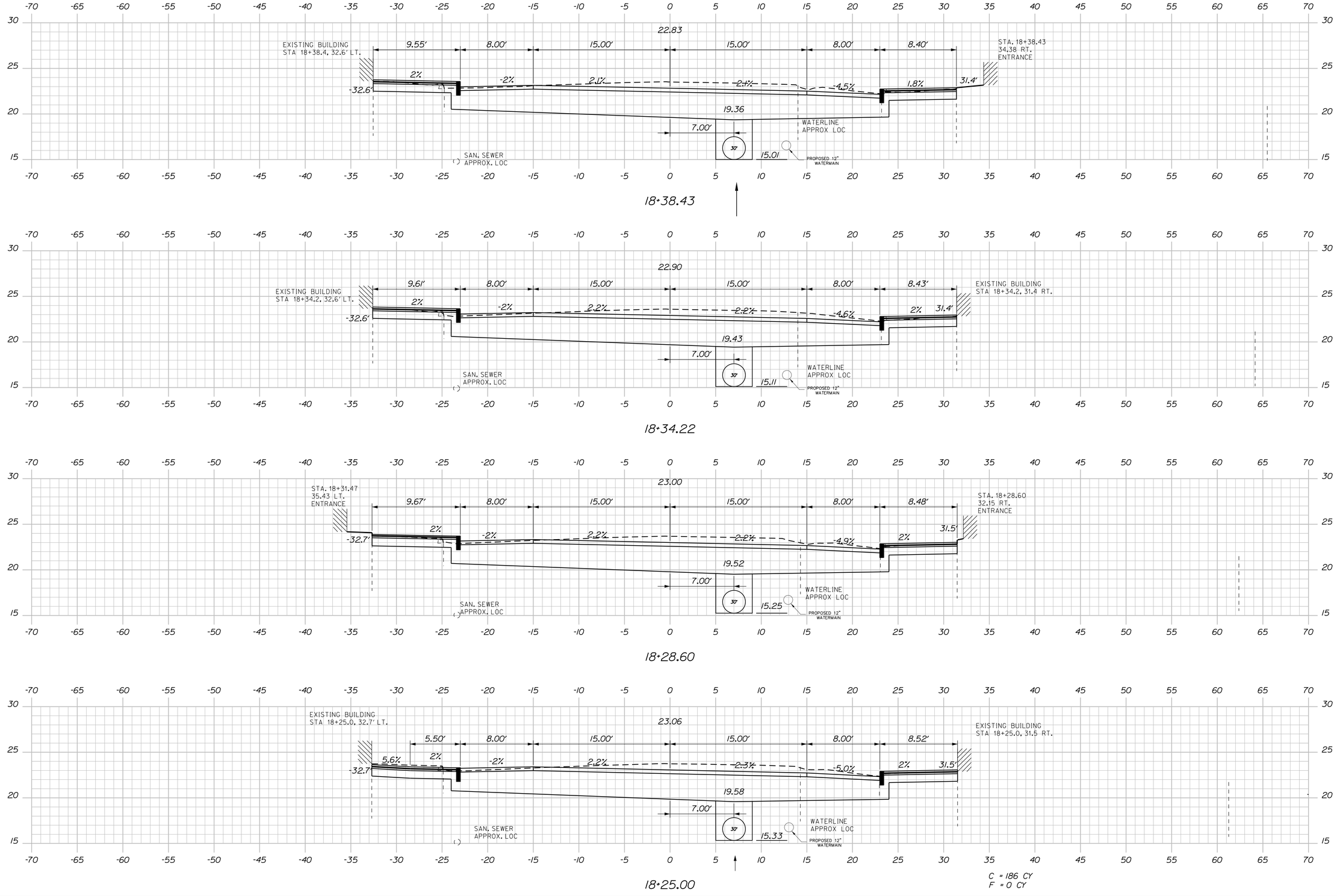
HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER
63
OF 172

Sta. 18+00.00 to Sta. 18+21.05

Filename: ...\063_XSECT_18+00_023.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 18+25.00 to Sta. 18+38.43

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE

7960
P.E. NUMBER

1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			1
REVISIONS 2			2
REVISIONS 3			3
REVISIONS 4			4
FIELD CHANGES			

HALLOWELL
WATER STREET

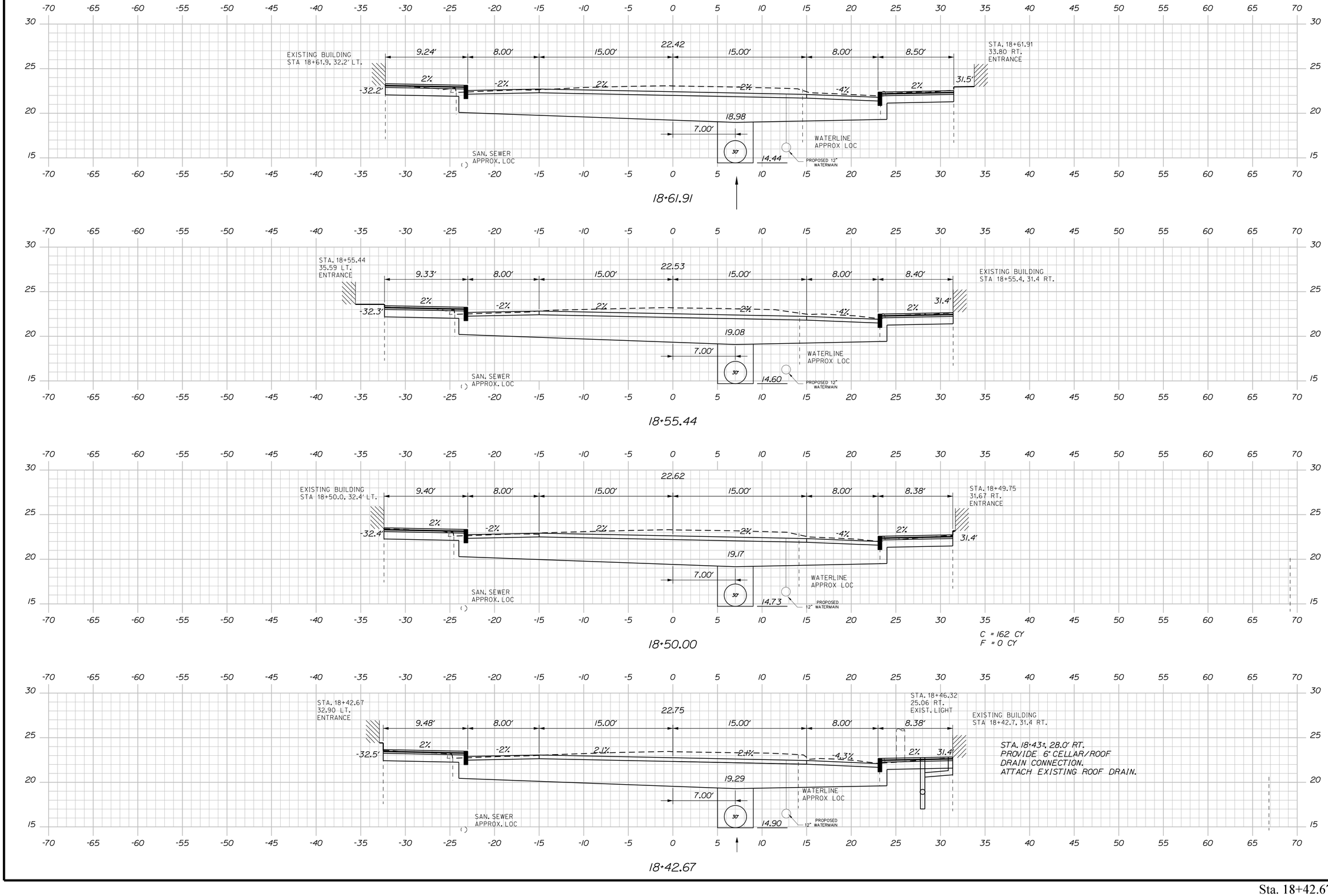
CROSS SECTIONS

SHEET NUMBER

64

OF 172

Filename: ...\064_XSECT_18+25_024.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. JAMESON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

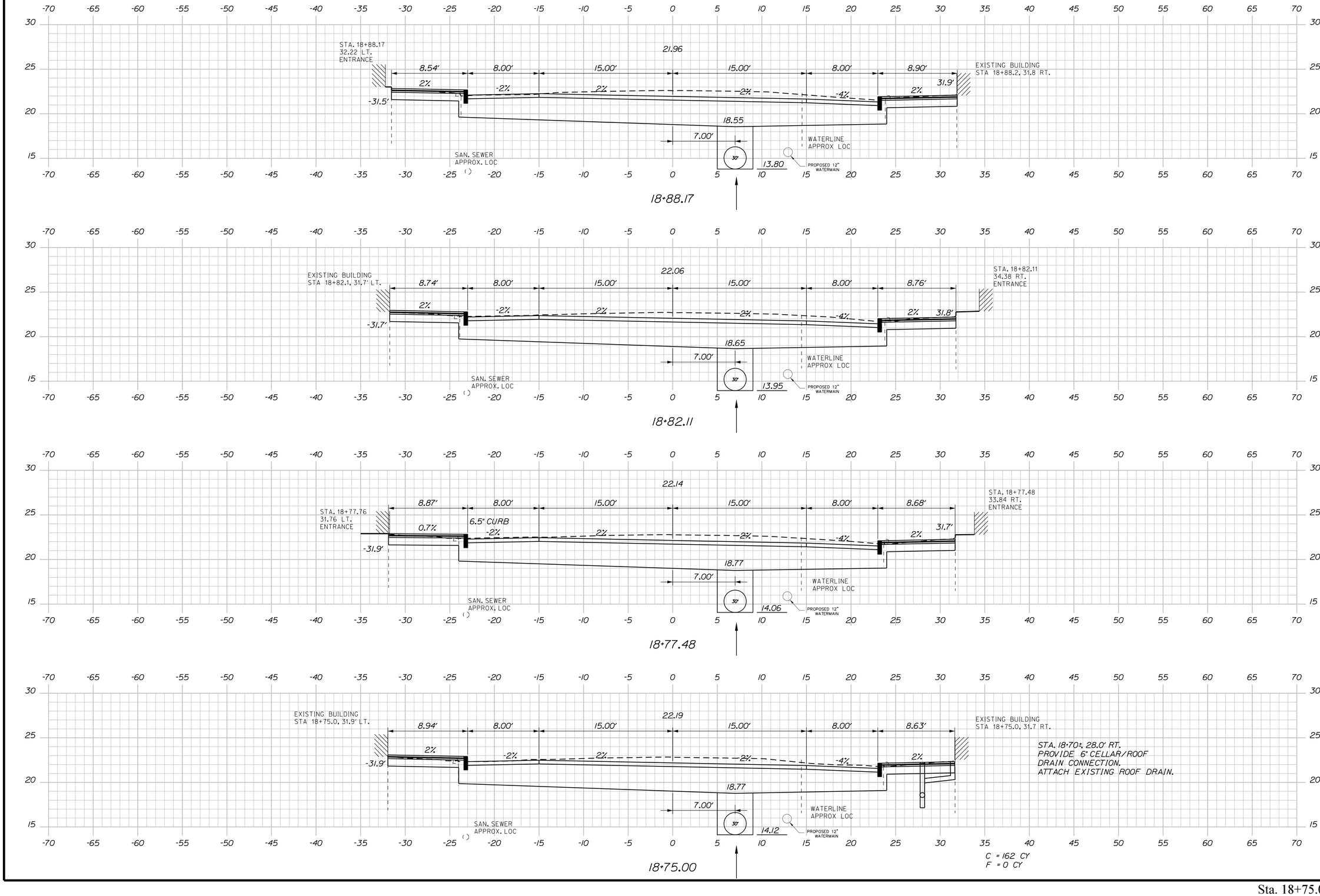
HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER
65
OF 172

Sta. 18+42.67 to Sta. 18+61.91

Filename: ...\065_XSECT_18+42_025.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 18+75.00 to Sta. 18+88.17

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

SIGNATURE

7960
P.E. NUMBER

1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

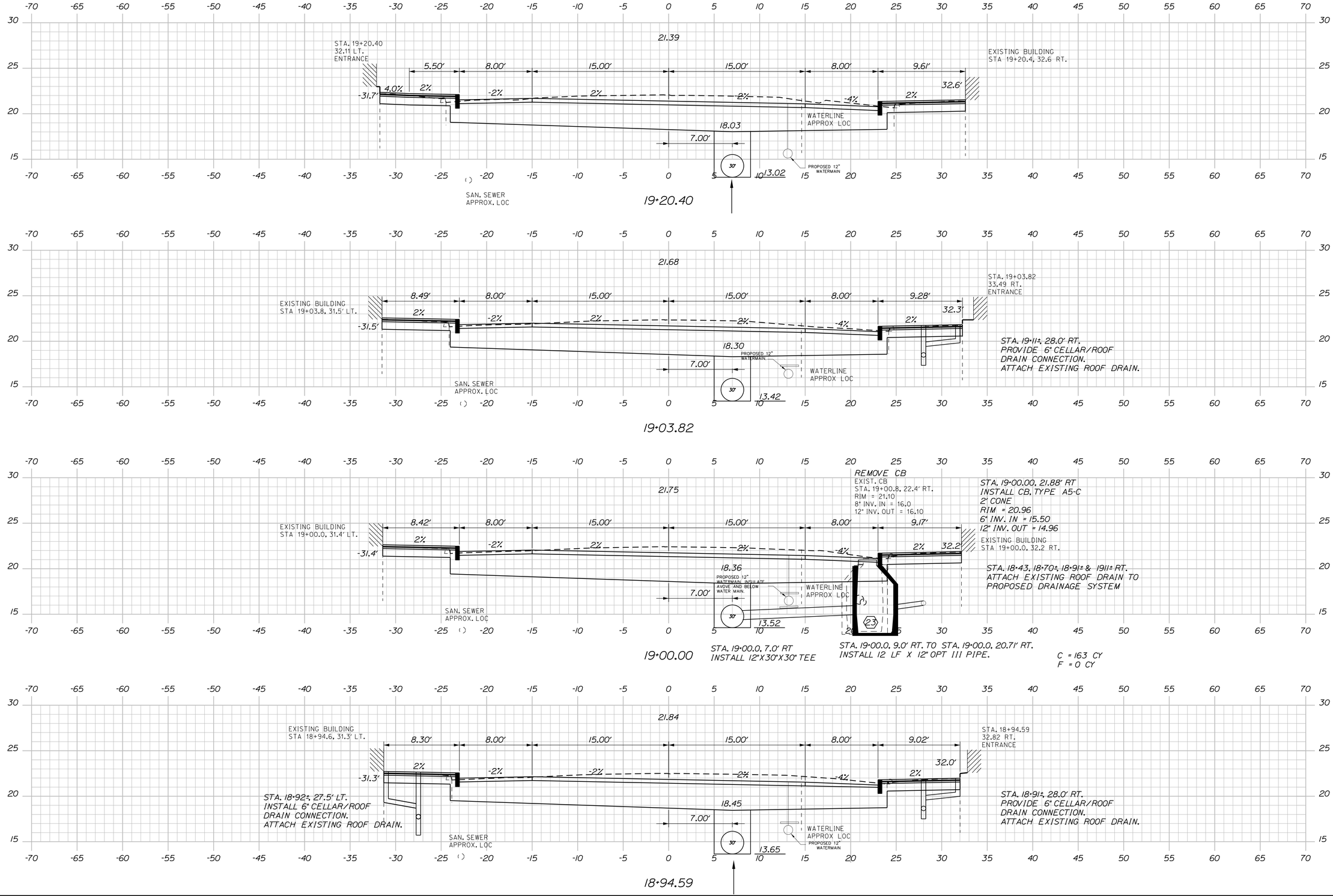
CROSS SECTIONS

SHEET NUMBER

66

OF 172

Filename: ...\066_XSECT_18+75_026.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. LAWSON
No 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960

P.E. NUMBER
1/12/18

DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

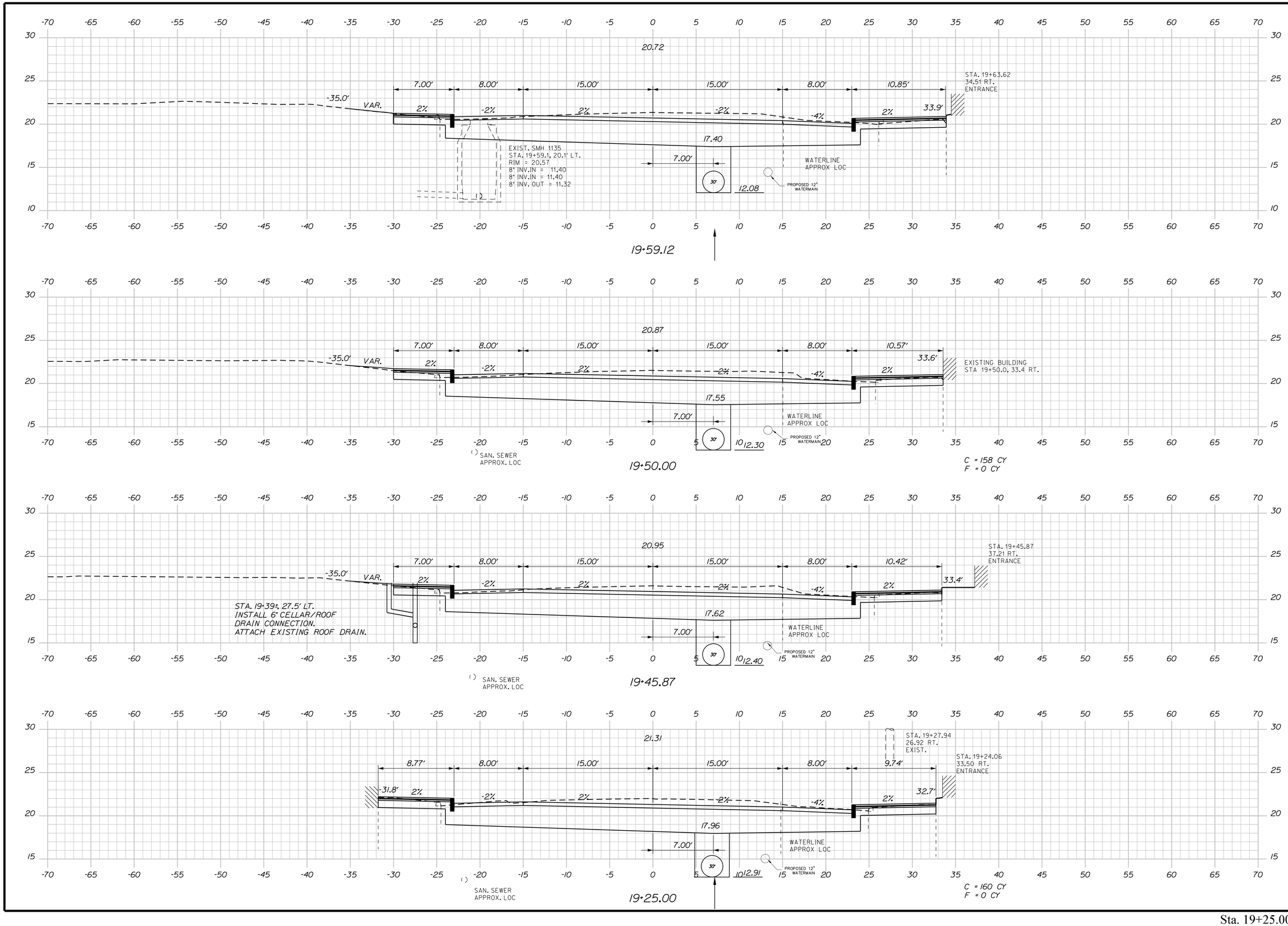
SHEET NUMBER

67

OF 172

Sta. 18+94.59 to Sta. 19+20.40

Filename: ...\067_XSECT_18+94_027.dgn Division: HIGHWAY Username: common Date:1/22/2018



Username: common Date:1/22/2018

Division: HIGHWAY

Filename: ...\068_XSECT_19+25_028.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

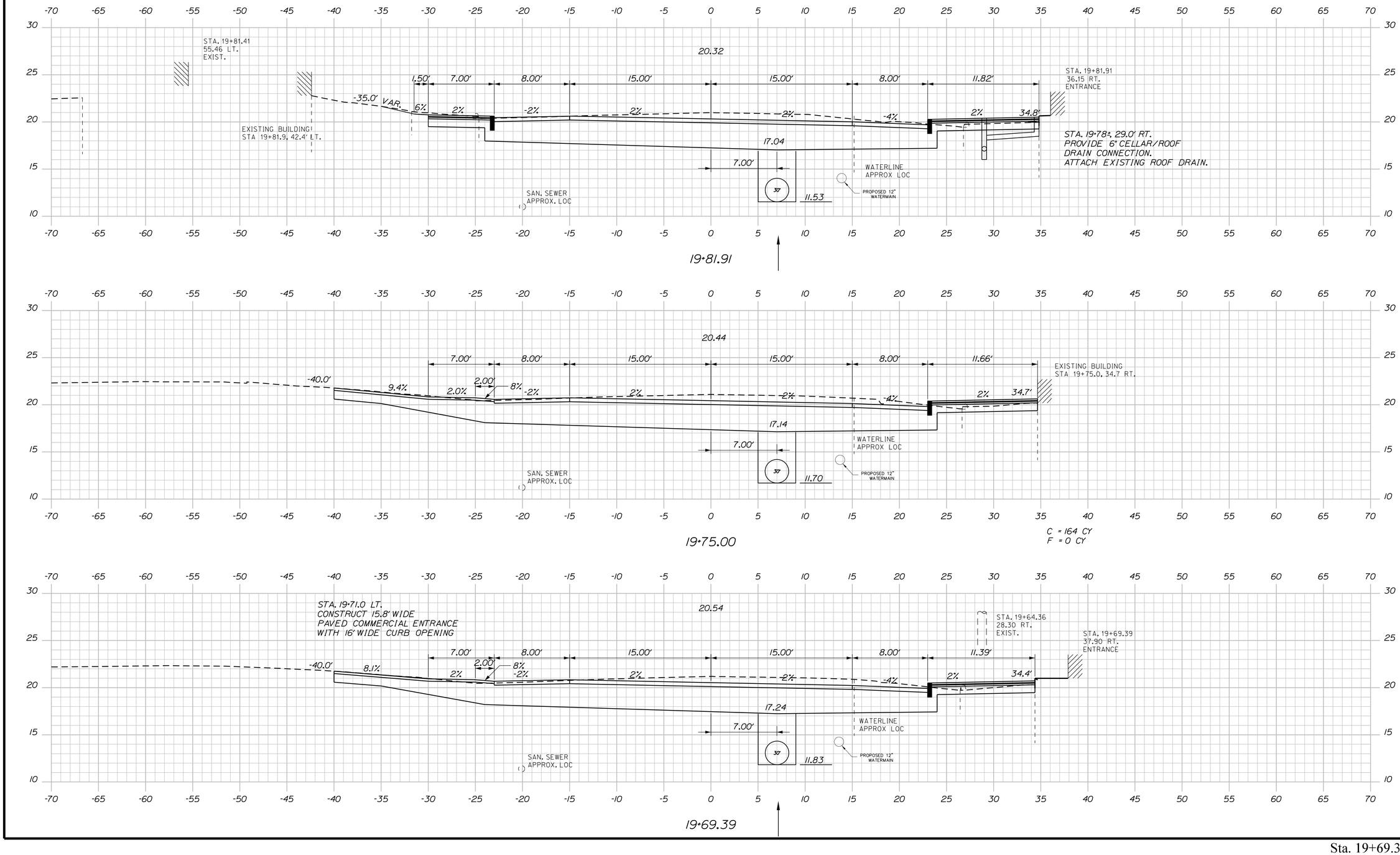
CROSS SECTIONS

SHEET NUMBER

68

OF 172

Sta. 19+25.00 to Sta. 19+59.12



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

	SIGNATURE
	7960
	P.E. NUMBER
	1/12/18
	DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		

	DATE
REVISIONS 1	1-18
REVISIONS 2	1-18
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

69

OF 172

Sta. 19+69.39 to Sta. 19+81.91

Filename: ...\069_XSECT_19+69_029.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\070_XSECT_19+87_030.dgn Username: common Division: HIGHWAY Date:1/22/2018

STA. 18+92± & 19+39± LT.
ATTACH EXISTING ROOF DRAIN TO
PROPOSED DRAINAGE SYSTEM

EXISTING BUILDING
STA 20+08.3, 42.2' LT.

STA 20+06.85, 24.1' LT. TO STA. X, X' LT
INSTALL 12 LF X 15" OPT III PIPE
(LOCATE EXISTING PIPE)
TEST PIT TO LOCATE

STA. 20+08.26, 21.88' LT.
INSTALL CB, TYPE A5-C
2' CONE EXTRA DEPTH
RIM = 19.89
6" INV. IN = 14.50
15" INV. IN W = 13.00
15" INV. OUT = 12.90

SAN. SEWER
APPROX. LOC

PROPOSED 12"
WATERMAIN

WATERLINE
APPROX LOC

STA. 20+06.21
29.42 RT.
EXIST. LIGHT

EXISTING BUILDING
STA 20+08.3, 35.0 RT.

STA. 19+78± AND 20+01±
ATTACH EXISTING ROOF DRAIN TO
PROPOSED DRAINAGE SYSTEM

STA. 20+08.26.30, 21.88' RT.
INSTALL CB, TYPE A5-C
2' CONE, EXTRA DEPTH
RIM = 19.13
6" INV. IN = 14.00
12" INV. OUT= 11.76

STA. 20+08.26, 20.7' LT TO STA. 20+08.26, 5.0' RT.
INSTALL 26 LF X 15" OPT III PIPE

STA. 20+08.26, 7.0' RT.
INSTALL 12"X 15" X 30" X 30" TEE

20+08.26

STA 20+08.26, 9.0' RT. TO STA 20+08.26.30, 20.8' RT.
INSTALL 13 LF X 12" OPT III PIPE

EXISTING BUILDING
STA 20+00.0, 42.2' LT.

EXIST. SMH 3215
STA. 19+99.7, 19.3' LT.
RIM = 20.00
8" INV. IN = 14.17 (CAPPED)
8" INV IN = 10.17
8" INV. OUT = 10.08

WATERLINE
APPROX LOC

PROPOSED 12"
WATERMAIN

EXISTING BUILDING
STA 20+00.0, 35.0 RT.

STA. 20+01±, 29.0' RT.
PROVIDE 6" CELLAR/ROOF
DRAIN CONNECTION.
ATTACH EXISTING ROOF DRAIN.

C = 158 CY
F = 0 CY

20+00.00

EXISTING BUILDING
STA 19+87.6, 42.3' LT.

SAN. SEWER
APPROX. LOC

STA. 19+87.64
36.15 RT.
ENTRANCE

19+87.64

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN
DESIGN-DETAILED	ALC
CHECKED-REVIEWED	ALC
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	DATE	BY
REVISIONS 1		
REVISIONS 2		
REVISIONS 3	1-18	JLE
REVISIONS 4	1-18	JLE
FIELD CHANGES		

HALLOWELL
WATER STREET

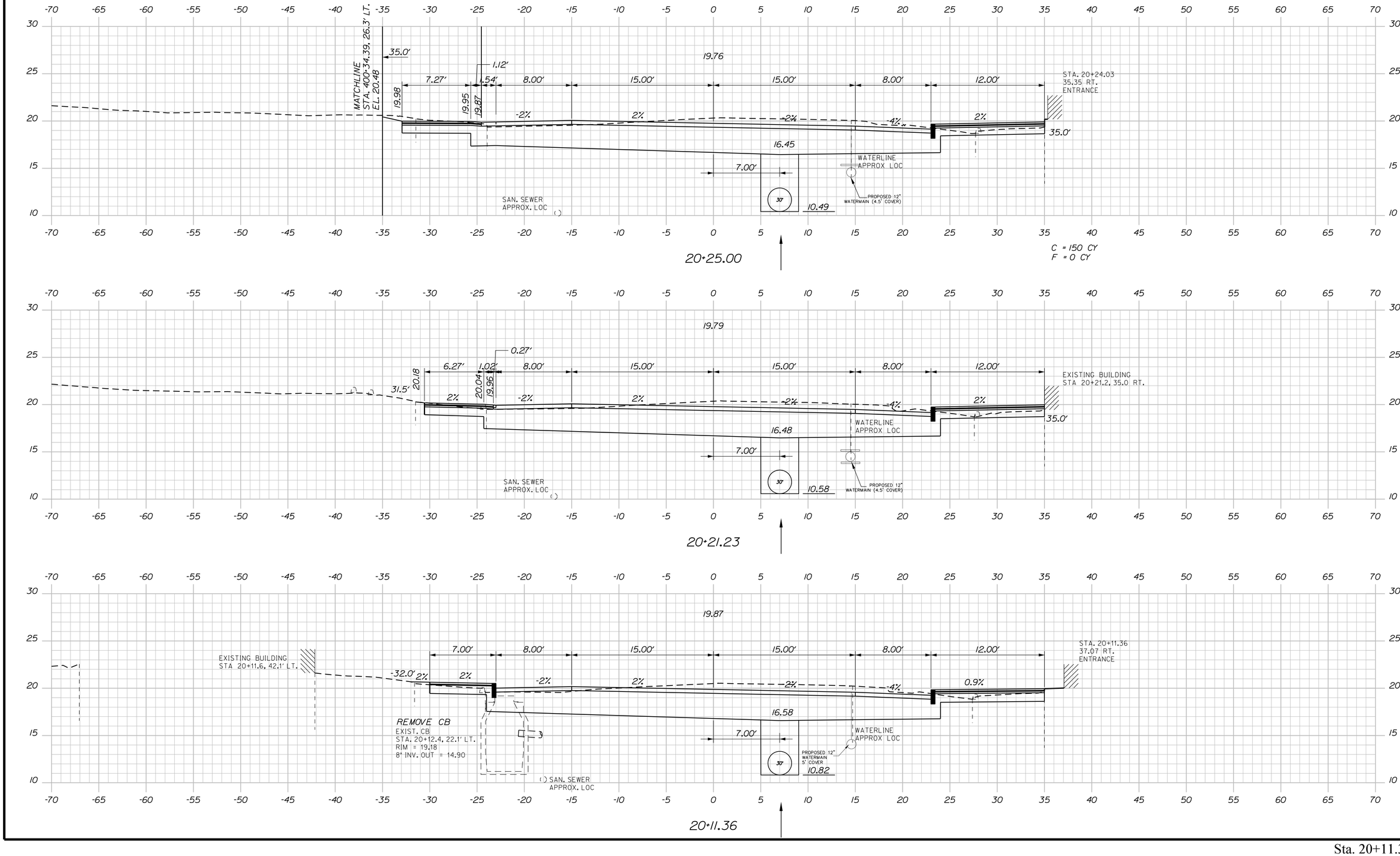
CROSS SECTIONS

SHEET NUMBER

70

OF 172

Sta. 19+87.64 to Sta. 20+08.26



Sta. 20+11.36 to Sta. 20+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

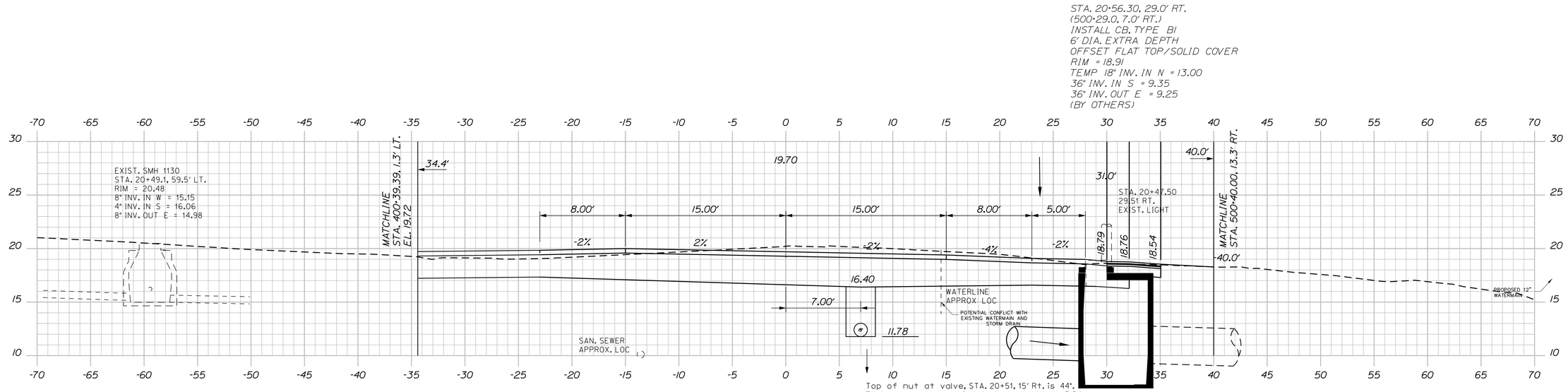
SHEET NUMBER

71

OF 172

Filename: ...\071_XSECT_20+11_031.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\072_XSECT_20+33_032.dgn Username: common Division: HIGHWAY Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

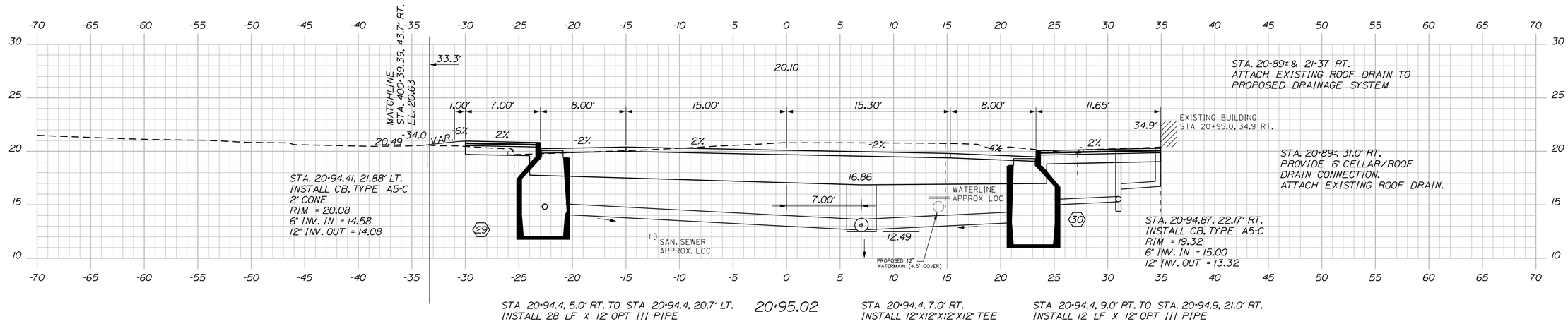
SHEET NUMBER

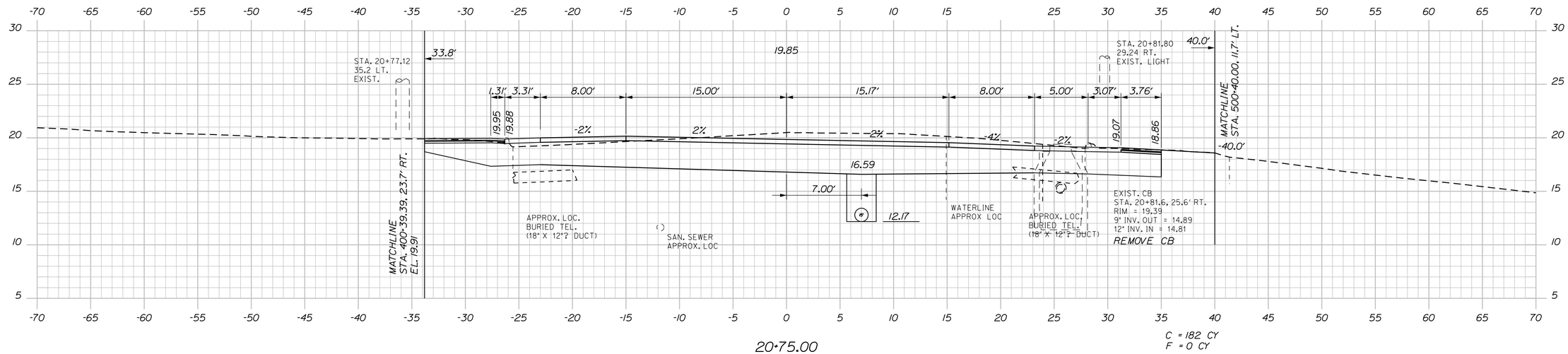
72

OF 172

Sta. 20+33.52 to Sta. 20+50.00

Filename: ...\073_XSECT_20+65_033.dgn Division: HIGHWAY Username: common Date:1/22/2018





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

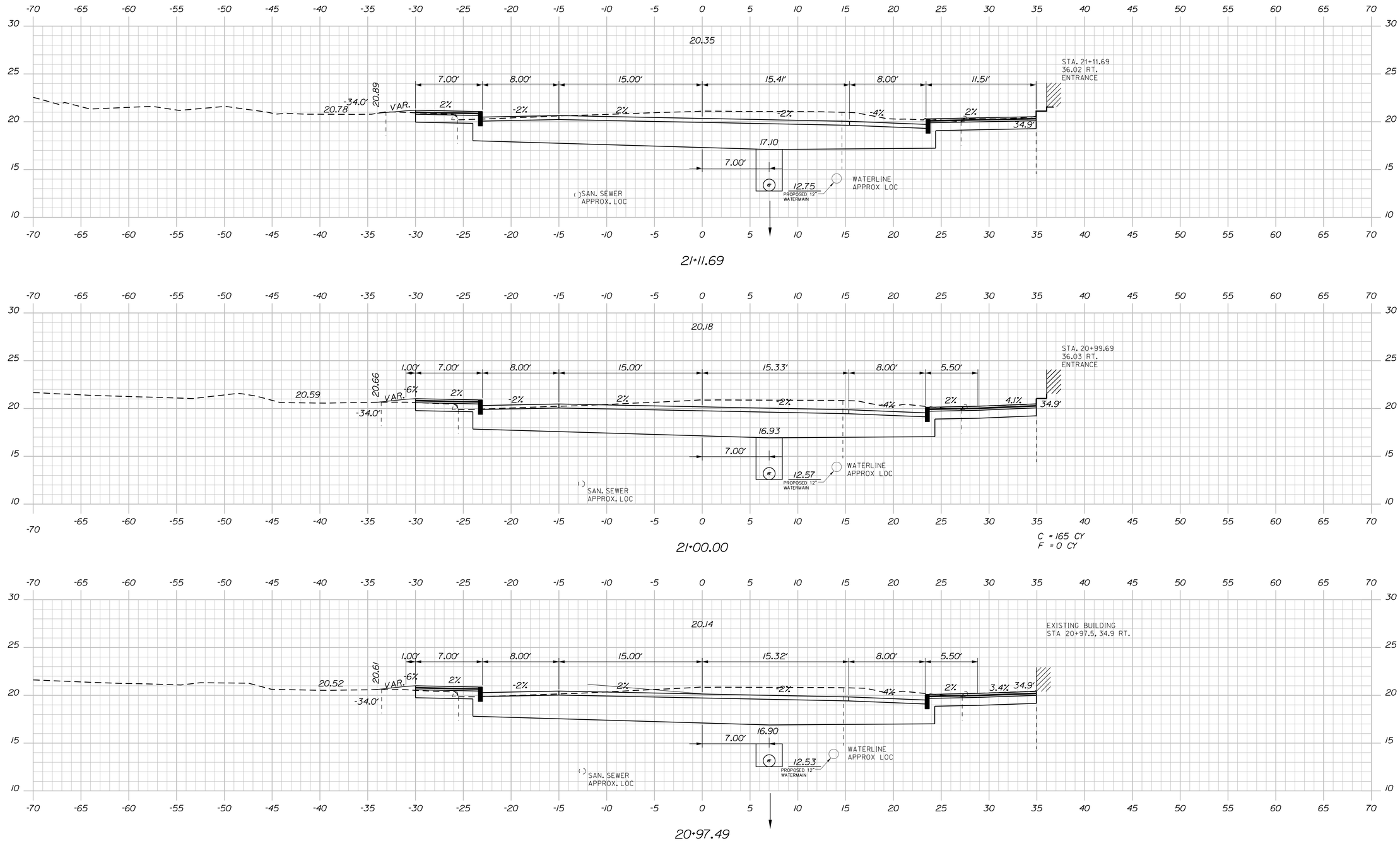
	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER
73
OF 172

Sta. 20+65.64 to Sta. 20+95.02



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL ENGINEER

SIGNATURE	
P.E. NUMBER	7960
DATE	1/12/18

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

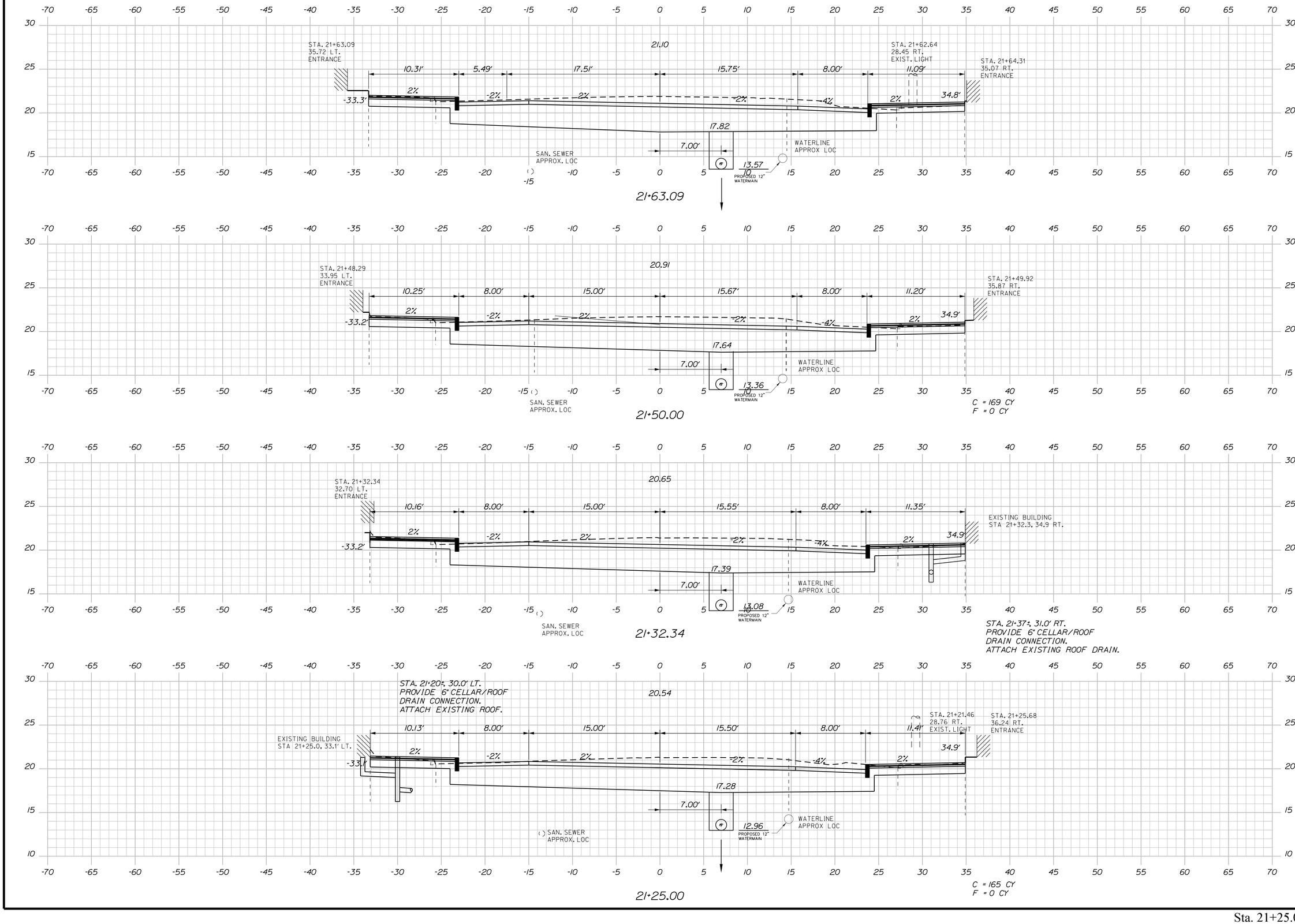
SHEET NUMBER

74

OF 172

Sta. 20+97.49 to Sta. 21+11.69

Filename: ...\074_XSECT_20+97_034.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	P.E. NUMBER
		1/12/18	DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2	ALG		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

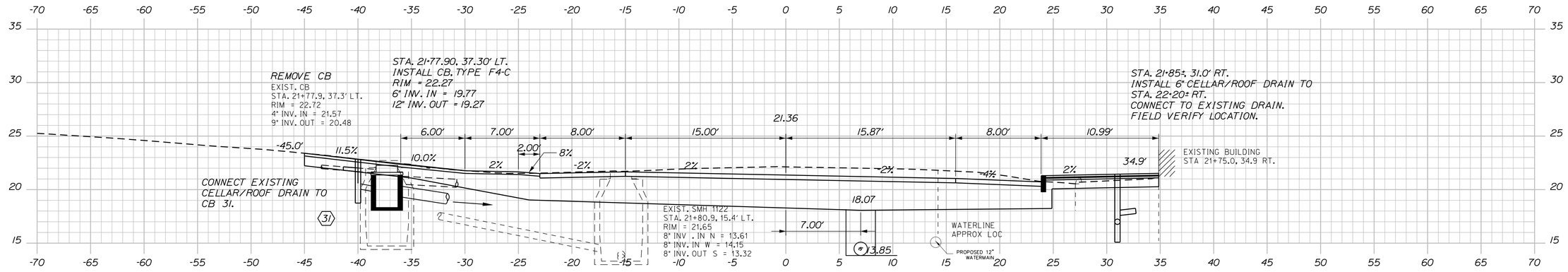
SHEET NUMBER

75

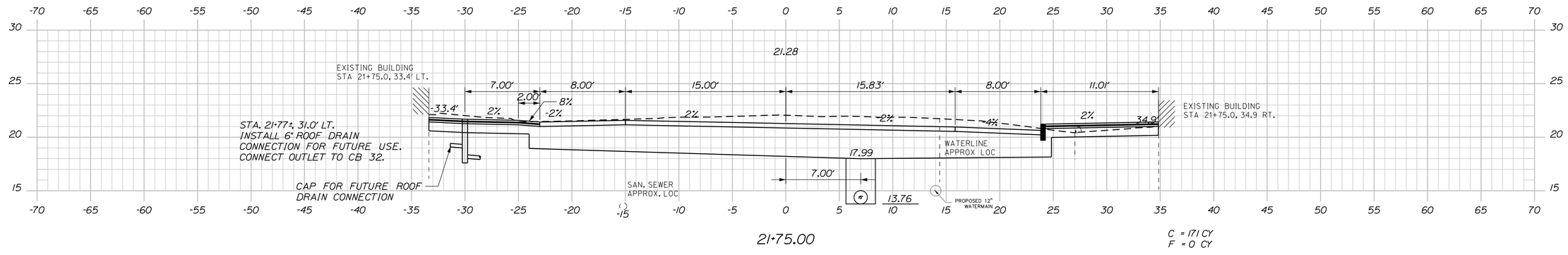
OF 172

Sta. 21+25.00 to Sta. 21+63.09

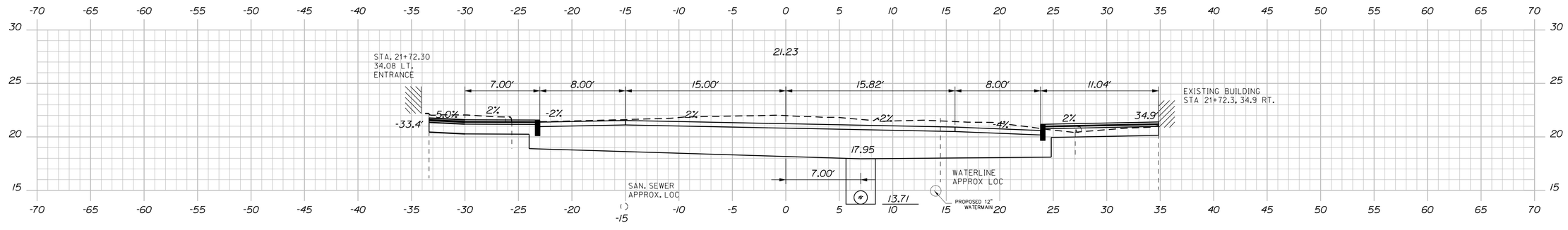
Filename: ...\075_XSECT_21+25_035.dgn Division: HIGHWAY Username: common Date:1/22/2018

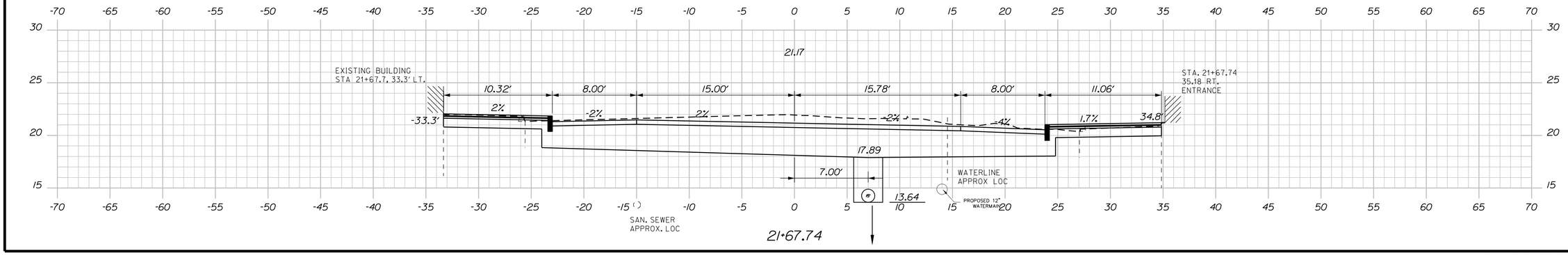


STA 21+78.64, 36.72' LT. TO STA 21+93.12, 23.58' LT.
INSTALL 20 LF X 12" OPT III PIPE



C = 171 CY
F = 0 CY





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L.
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

	SIGNATURE
	7960
	P.E. NUMBER
	1/12/18
	DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

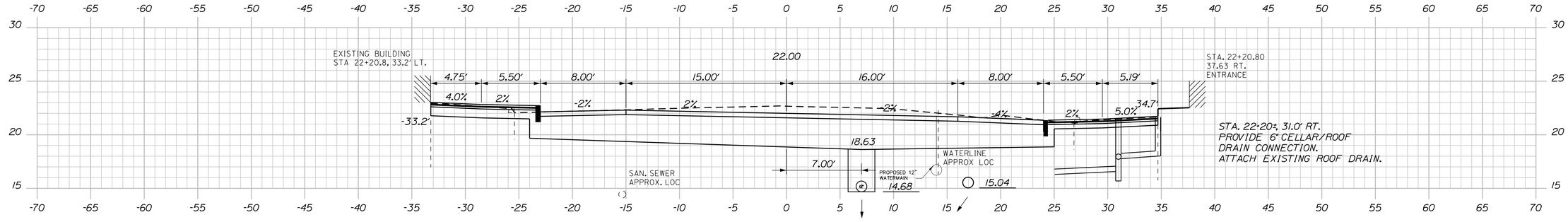
SHEET NUMBER

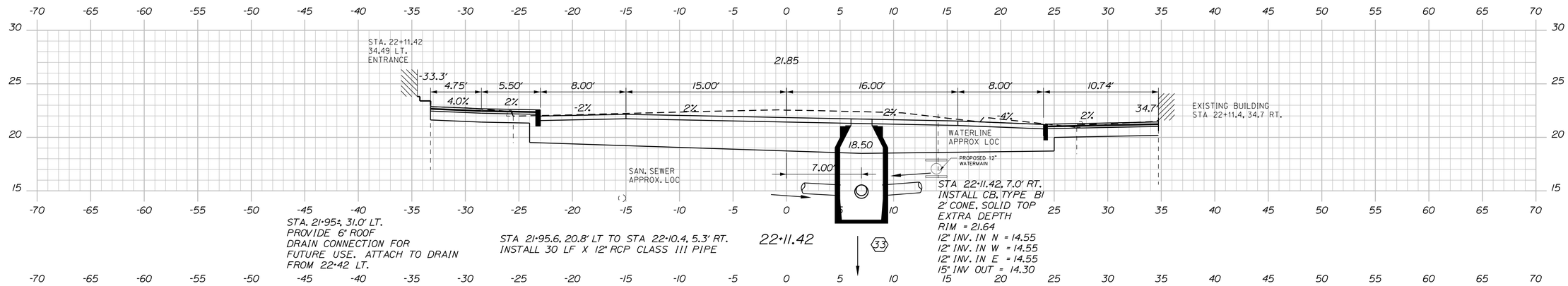
76

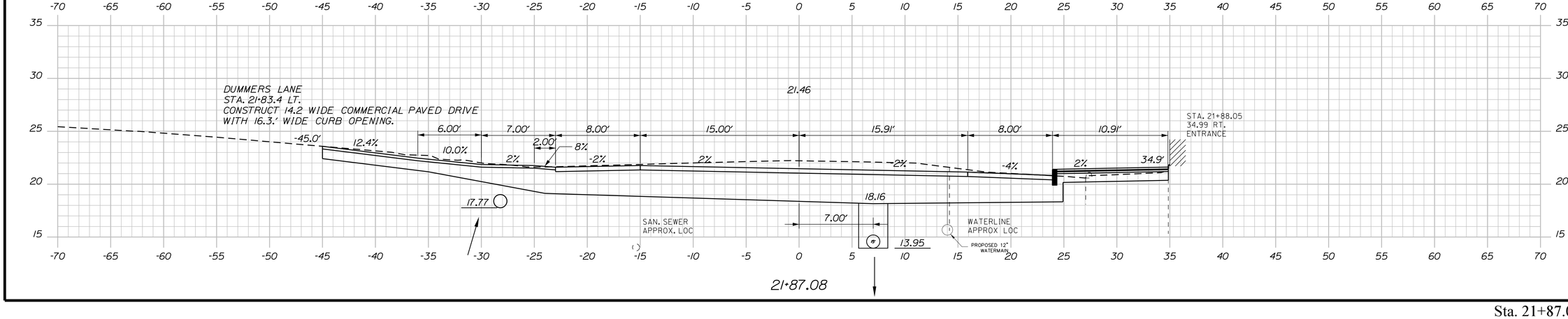
OF 172

Sta. 21+67.74 to Sta. 21+80.86

Filename: ...\076_XSECT_21+67_036.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No 7990
LICENSED PROFESSIONAL ENGINEER

	BY	DATE
SIGNATURE		
7960		1-18
P.E. NUMBER		1-18
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN
DESIGN-DETAILED	ALG
CHECKED-REVIEWED	ALG
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HALLOWELL
WATER STREET

CROSS SECTIONS

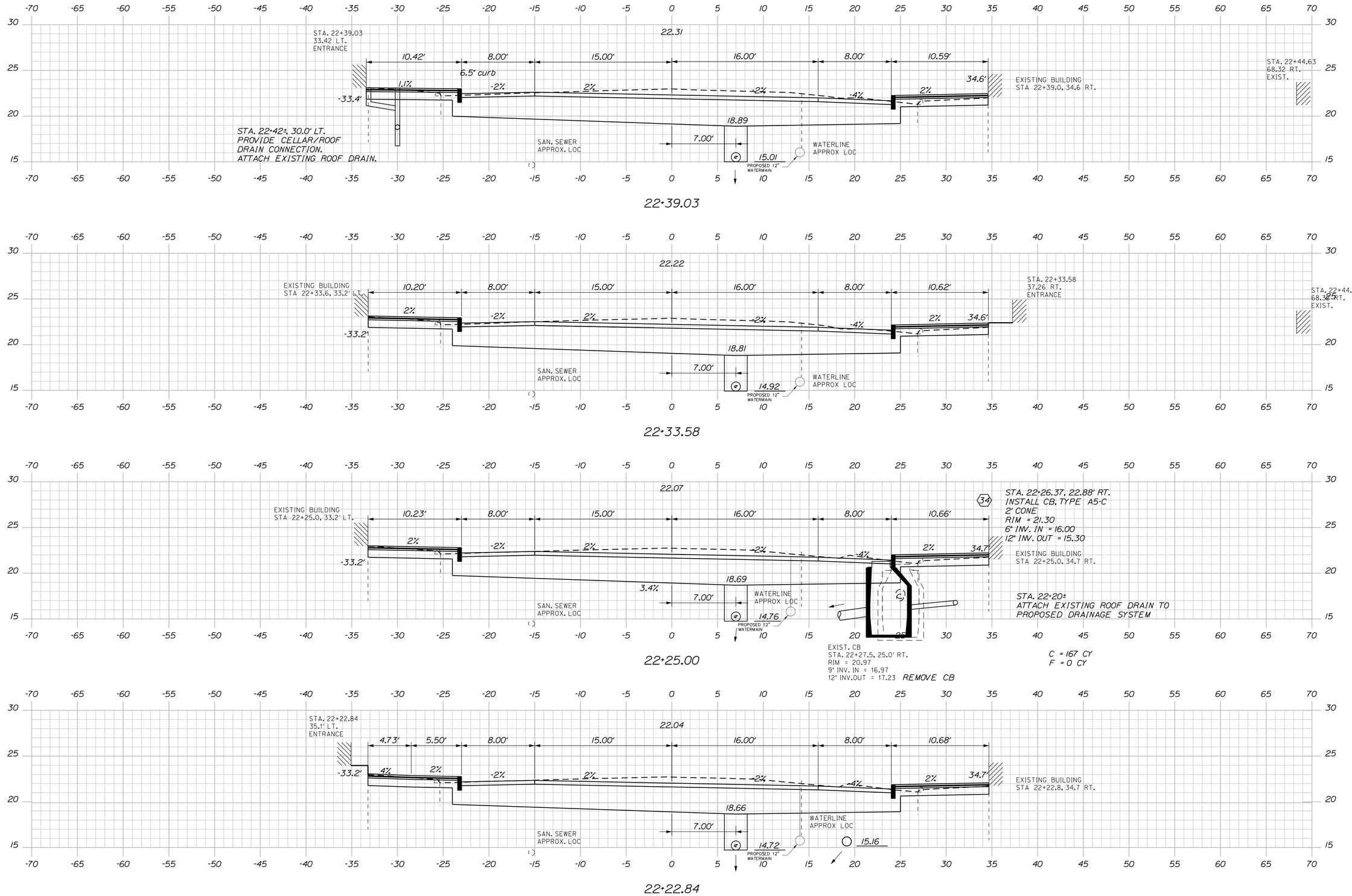
SHEET NUMBER

77

OF 172

Sta. 21+87.08 to Sta. 22+20.80

Filename: ...\077_XSECT_21+87_037.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

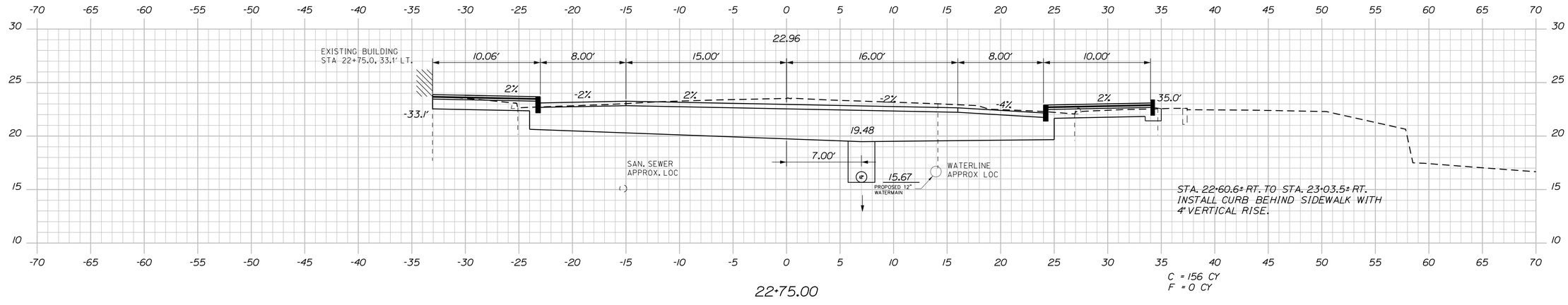
HALLOWELL
WATER STREET

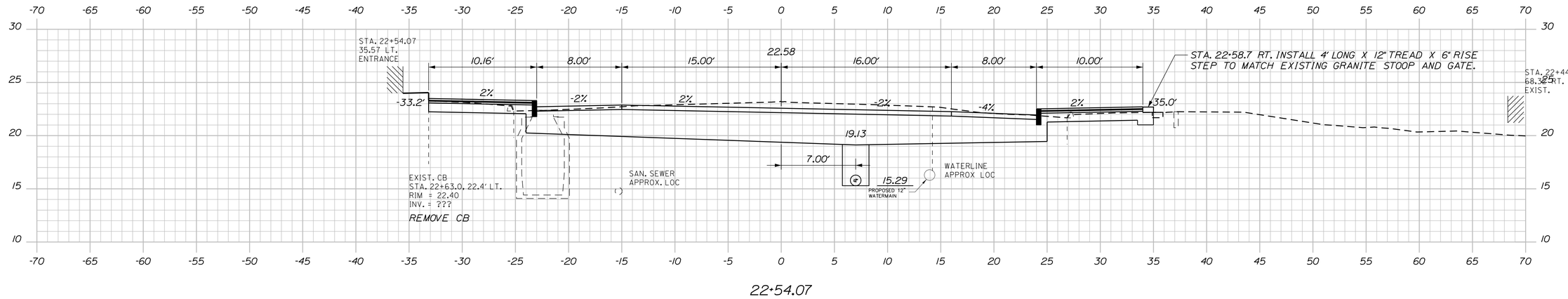
CROSS SECTIONS

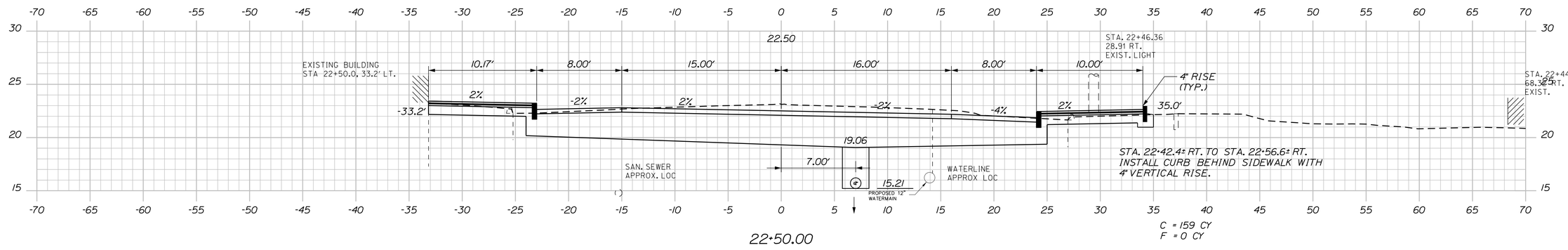
SHEET NUMBER
78
OF 172

Sta. 22+22.84 to Sta. 22+39.03

Filename: ...\078_XSECT_22+22_038.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE
1-18
1-18

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

79

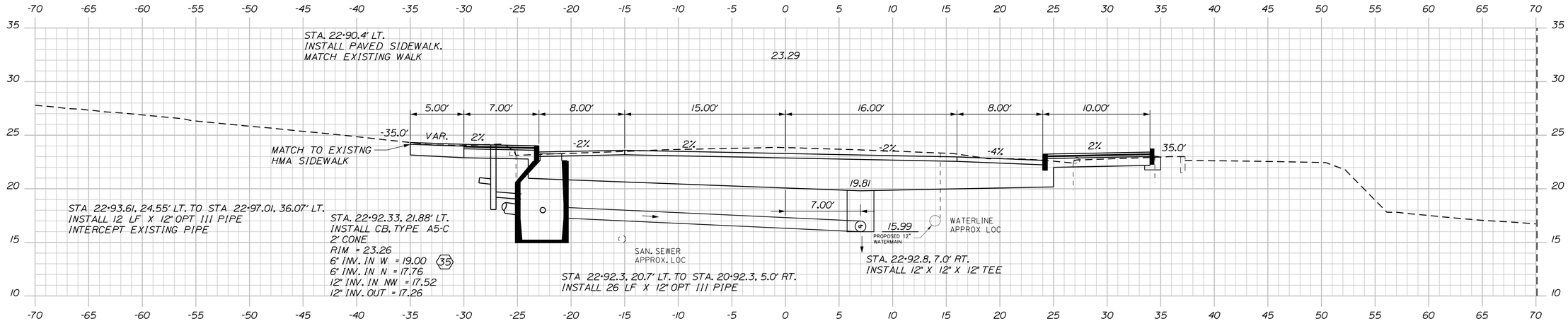
OF 172

Filename: ...\079_XSECT_22+50_039.dgn Username: common Division: HIGHWAY Date:1/22/2018

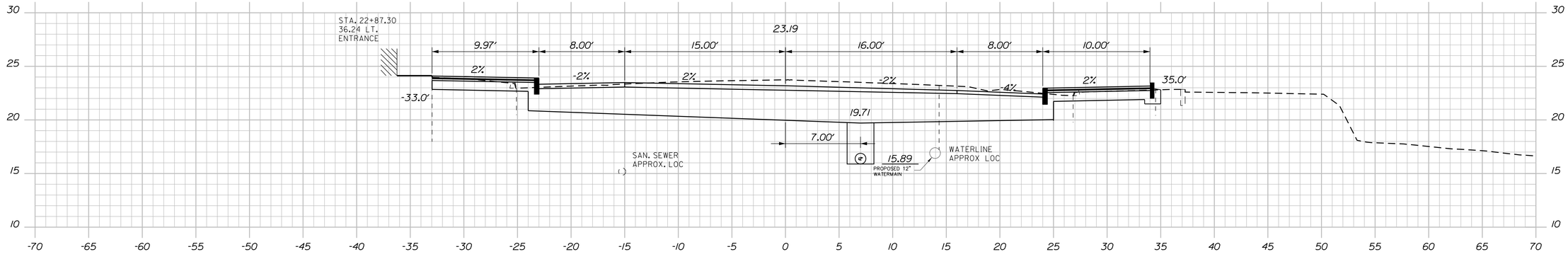
Sta. 22+50.00 to Sta. 22+75.00

STA. 23+34±, 28'± LT.
PROVIDE 6" CELLAR
DRAIN CONNECTION

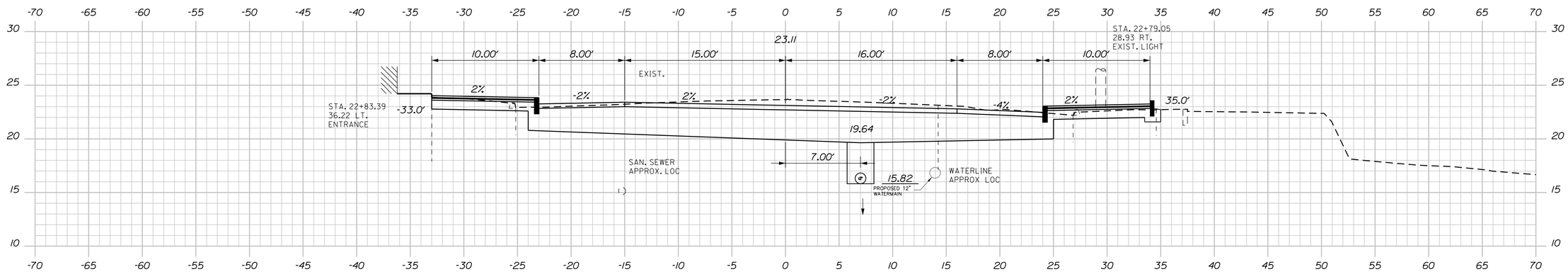
STA. 22+92. 27.5' LT.
PROVIDE 6" ROOF/CELLAR
DRAIN CONNECTION



22+92.82



22+87.30



22+83.39

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2	ALC	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE
1-18
1-18

HALLOWELL
WATER STREET

CROSS SECTIONS

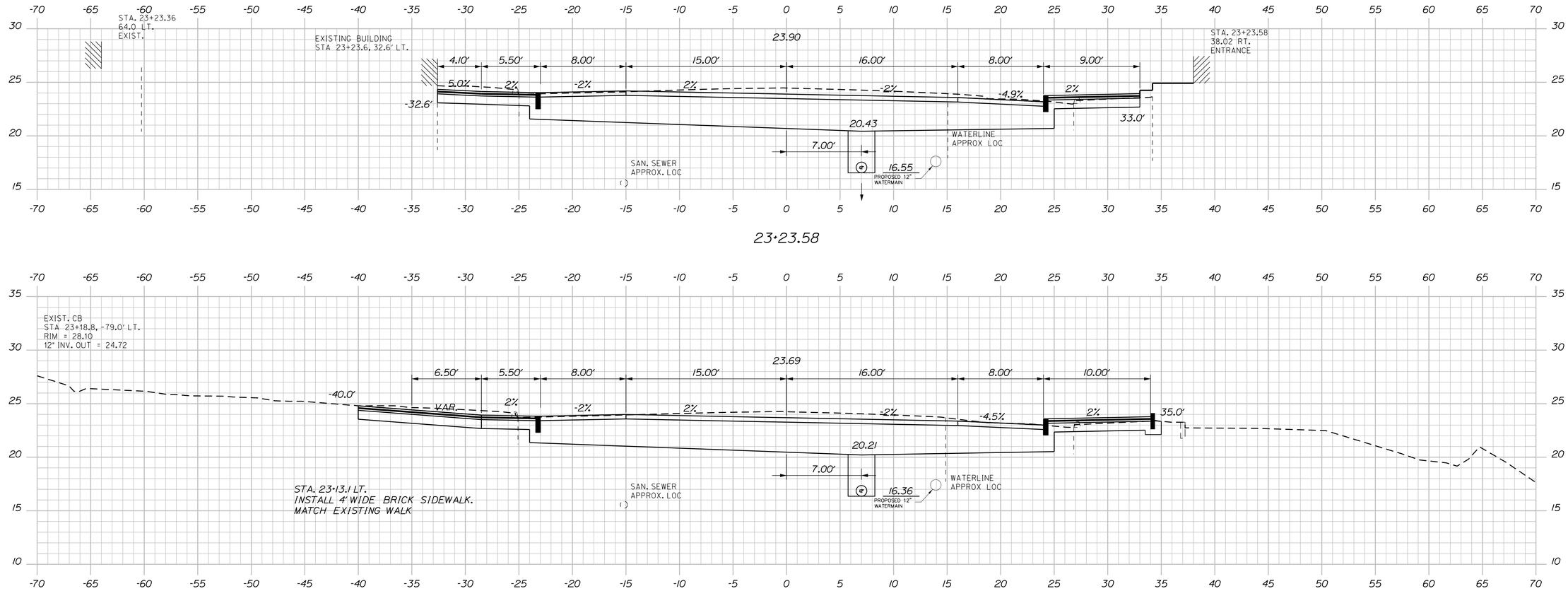
SHEET NUMBER

80

OF 172

Filename: ...\080_XSECT_22+83_040.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 22+83.39 to Sta. 22+92.82



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

	SIGNATURE
	7960
	P.E. NUMBER
	1/12/18
	DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL WATER STREET

CROSS SECTIONS

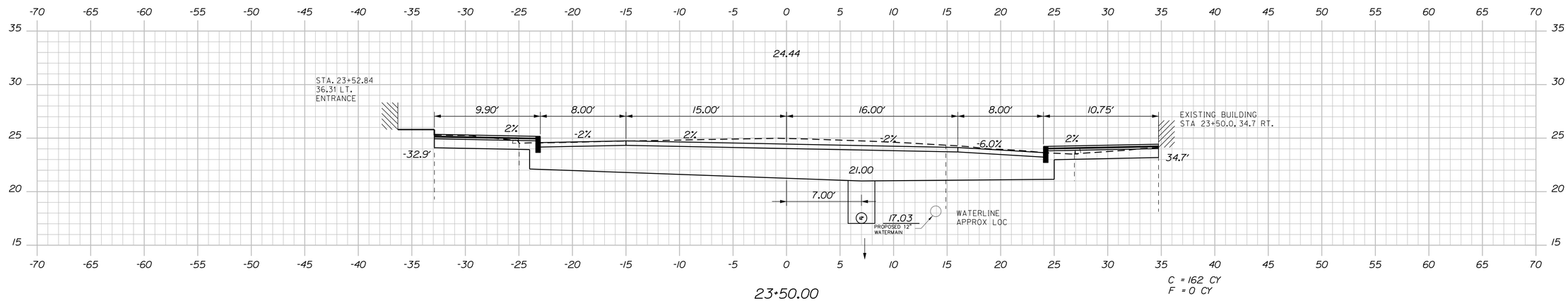
SHEET NUMBER

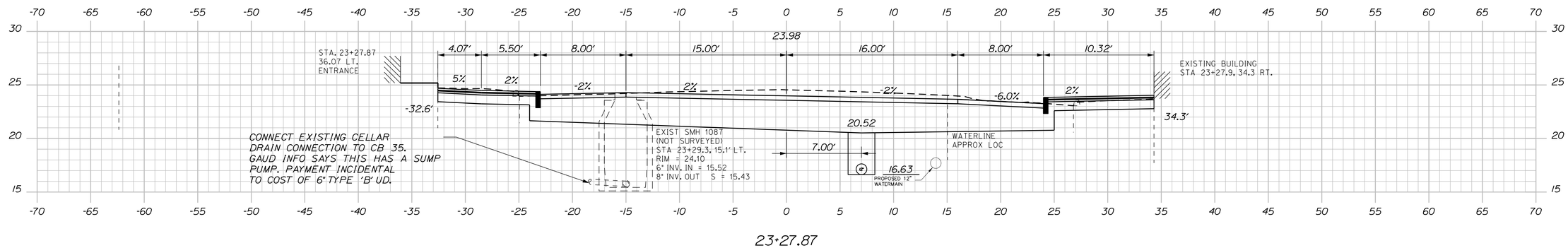
81

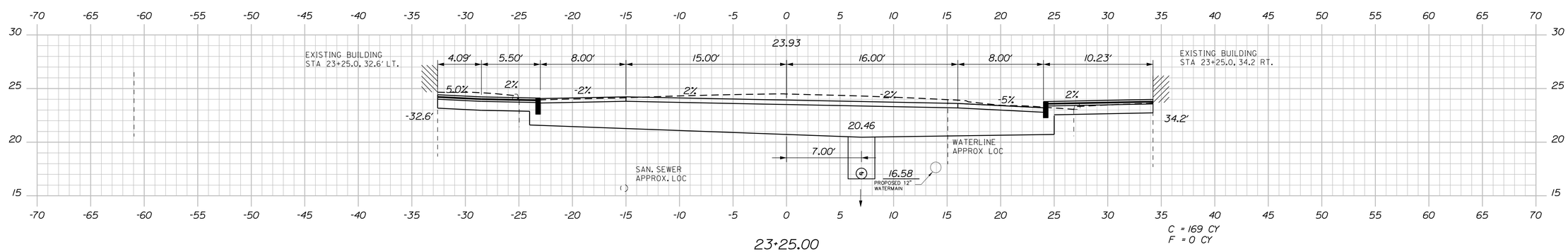
OF 172

Sta. 23+00.00 to Sta. 23+23.58

Filename: ...\081_XSECT_23+00_041.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

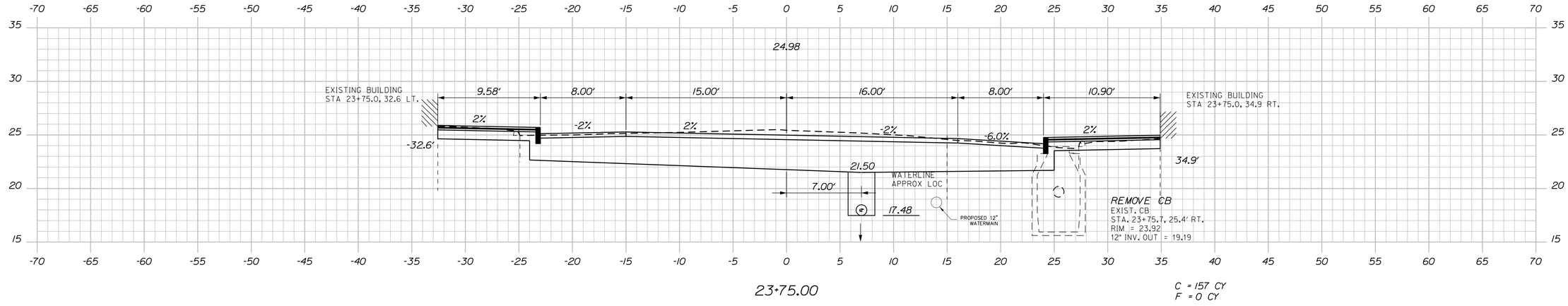
SHEET NUMBER

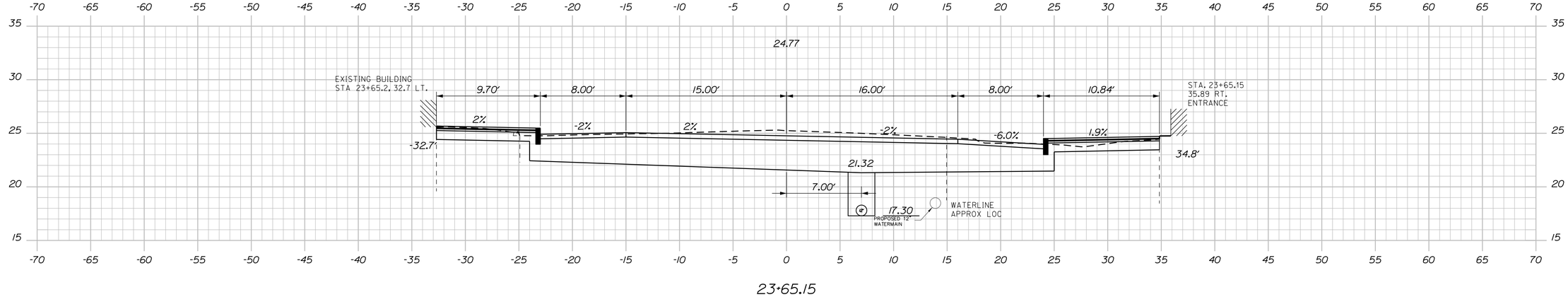
82

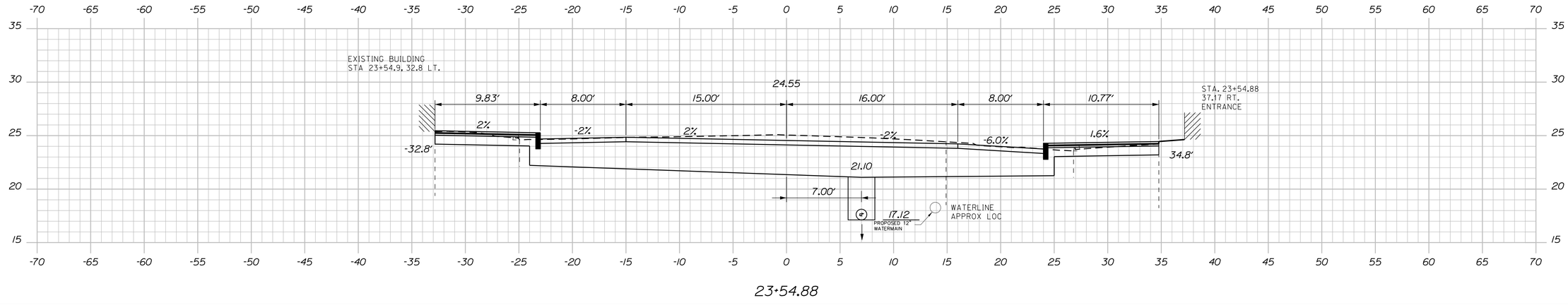
OF 172

Sta. 23+25.00 to Sta. 23+50.00

Filename: ...\082_XSECT_23+25_042.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

83

OF 172

Sta. 23+54.88 to Sta. 23+75.00

Filename: ...\083_XSECT_23+54_043.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
P.E. NUMBER	7960
DATE	1/12/18

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL WATER STREET

CROSS SECTIONS

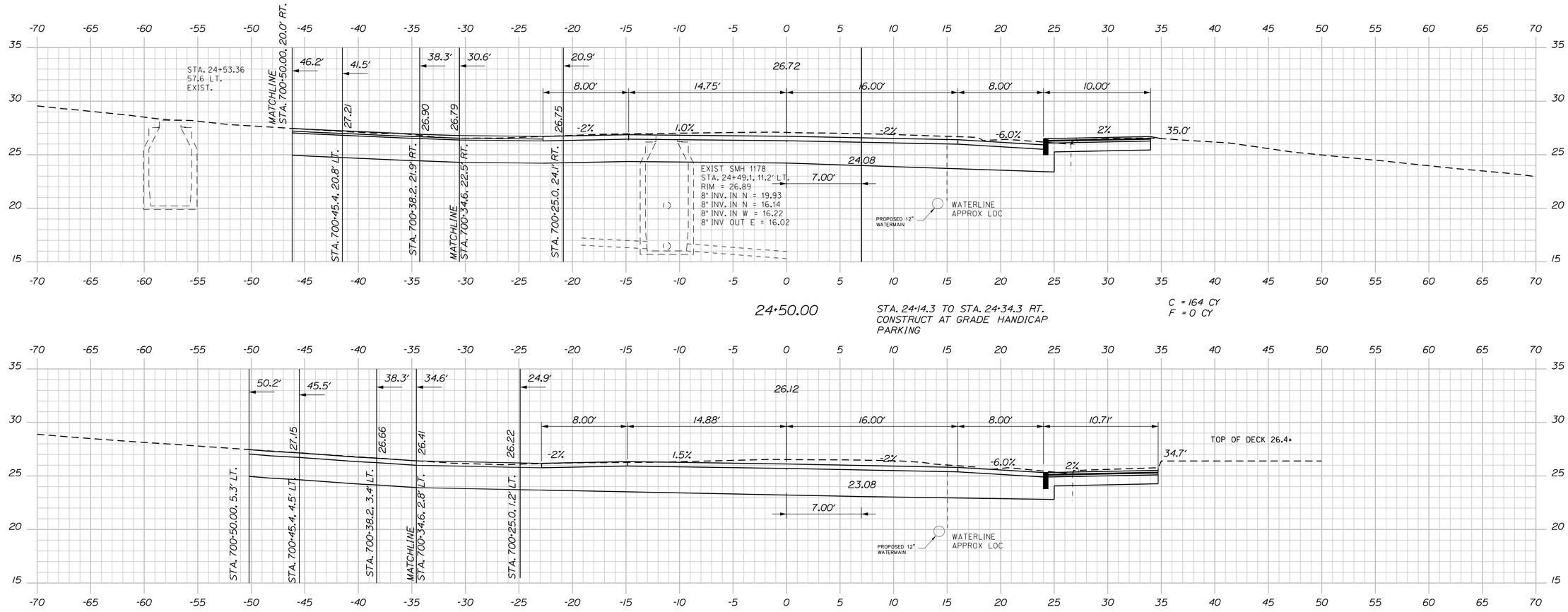
SHEET NUMBER

84

OF 172

Filename: ...\084_XSECT_23+82_044.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 23+82.30 to Sta. 24+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No. 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL WATER STREET

CROSS SECTIONS

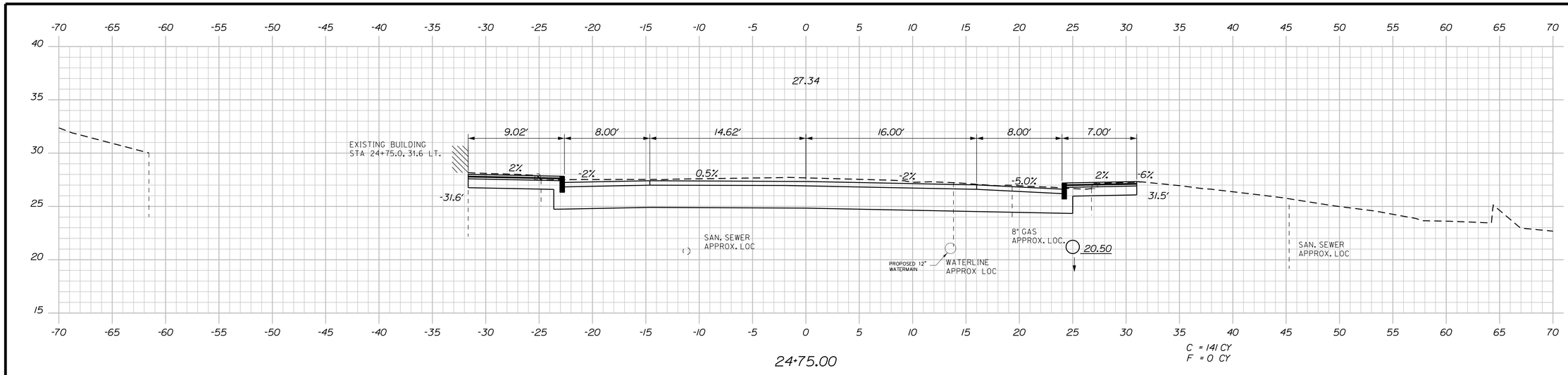
SHEET NUMBER

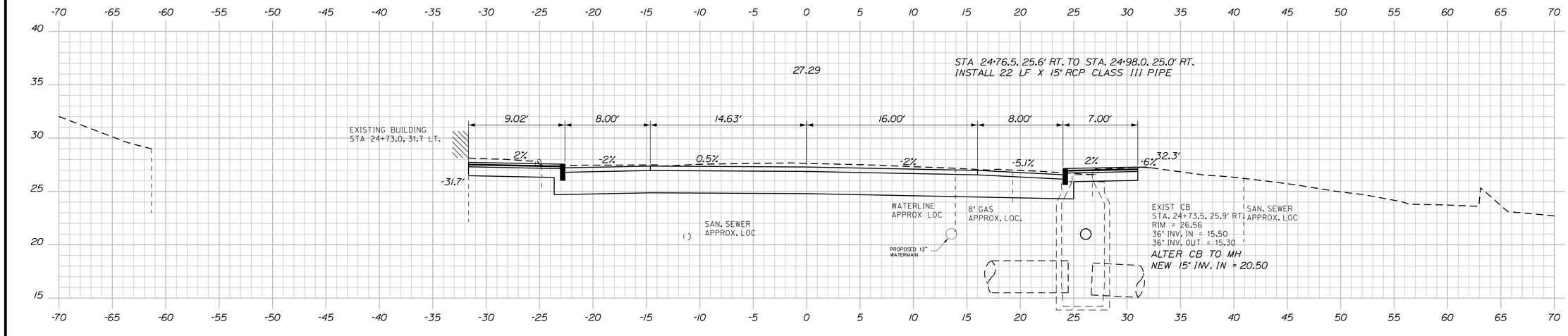
85

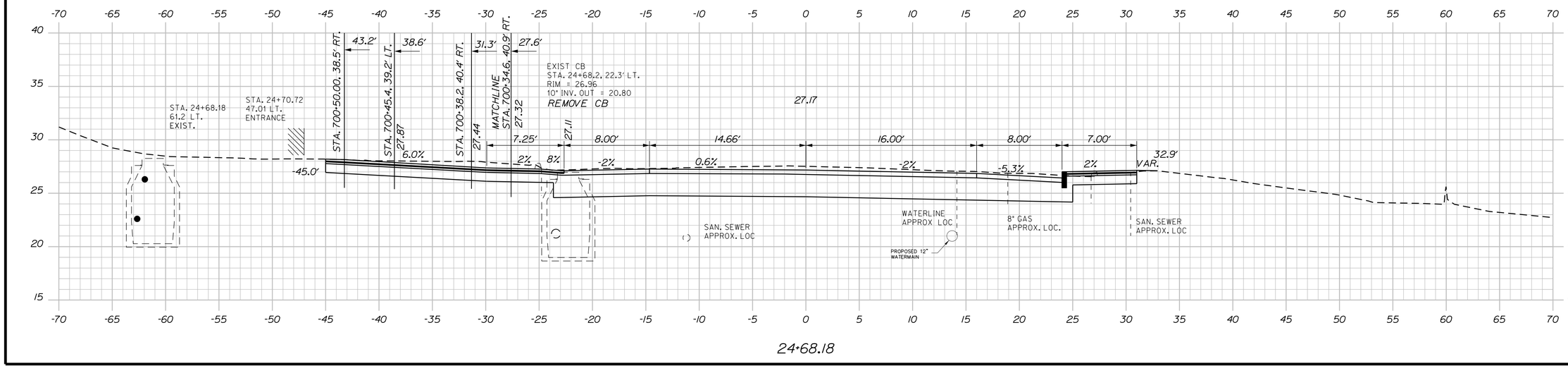
OF 172

Sta. 24+03.23 to Sta. 24+50.00

Filename: ...\085_XSECT_24+03_045.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE	
P.E. NUMBER	7960
DATE	1/12/18

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

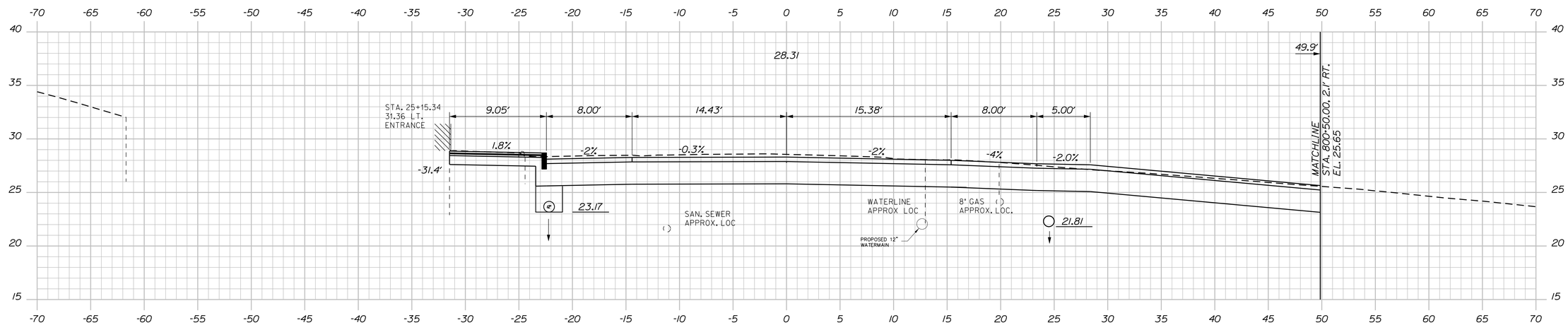
86

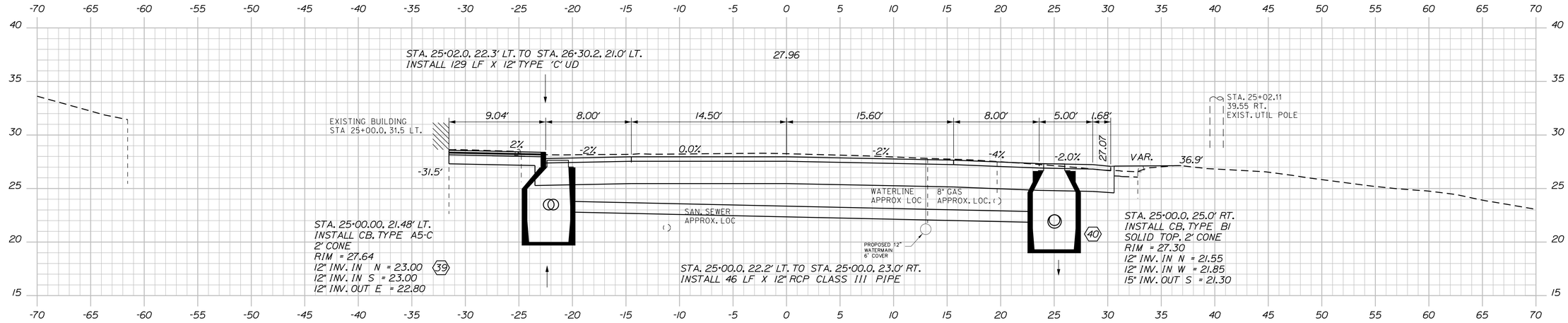
OF 172

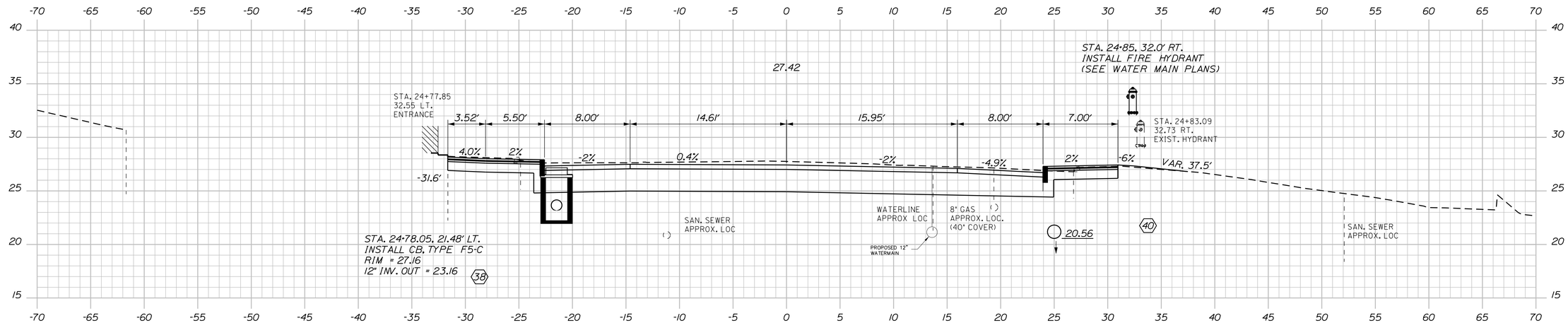
Sta. 24+68.18 to Sta. 24+75.00

Filename: ...\086_XSECT_24+68_046.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\087_XSECT_24+78_047.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L. EASON No 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALC	JLE	1-18
CHECKED-REVIEWED	ALC		1-18
DESIGN2-DETAILED2	ALC		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

87

OF 172

Sta. 24+78.12 to Sta. 25+14.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		P.E. NUMBER
		1/12/18
		DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

1-18	DATE
1-18	

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

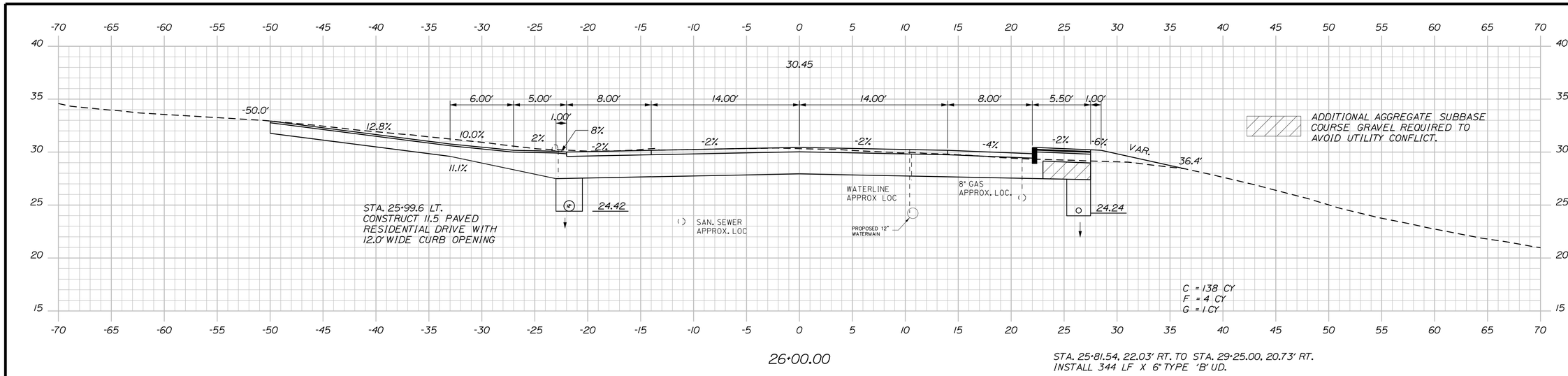
88

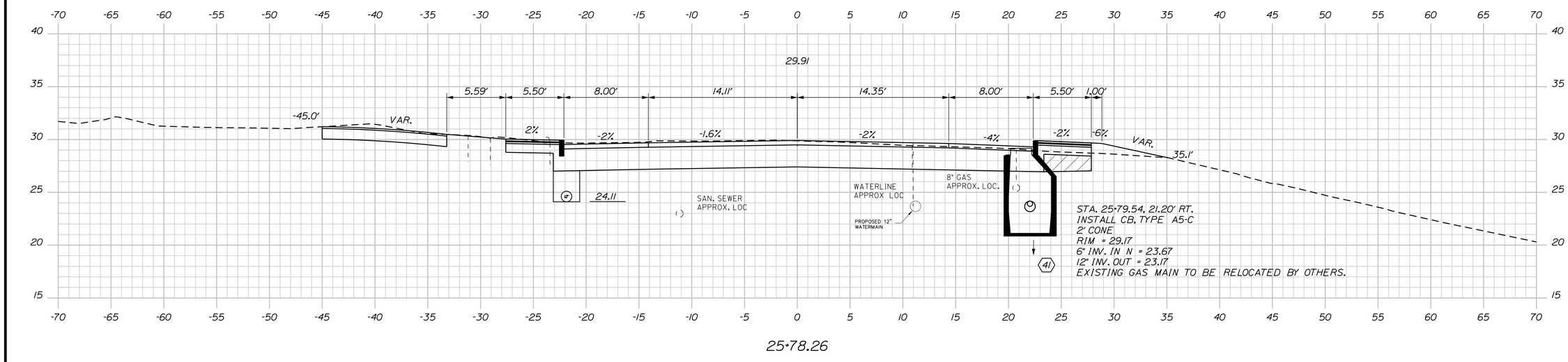
OF 172

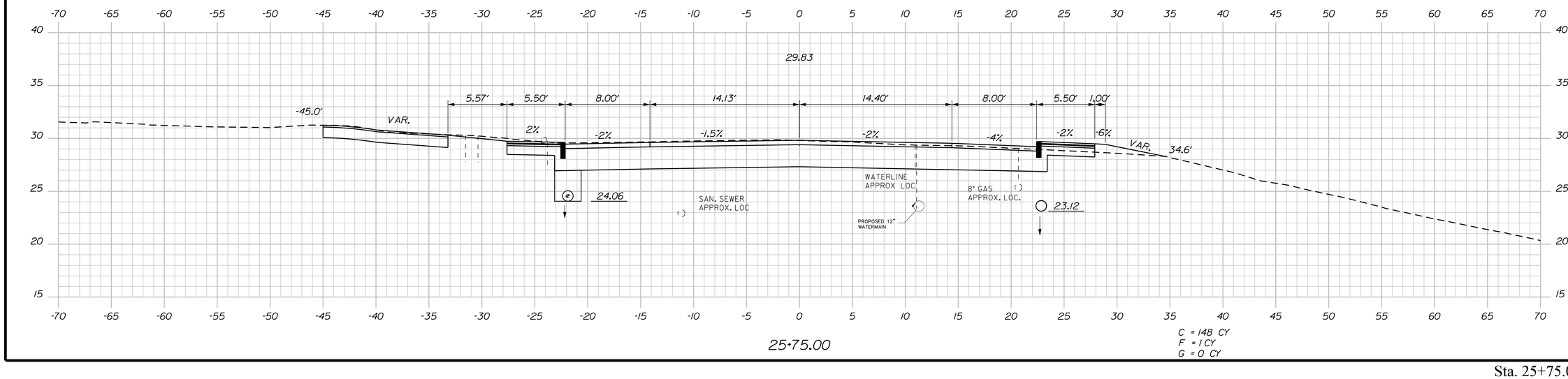
Filename: ...\088_XSECT_25+25_048.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 25+25.00 to Sta. 25+58.01

Filename: ...\089_XSECT_25+75_049.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L EASON No. 7960 REGISTERED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	P.E. NUMBER
		1/12/18	DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

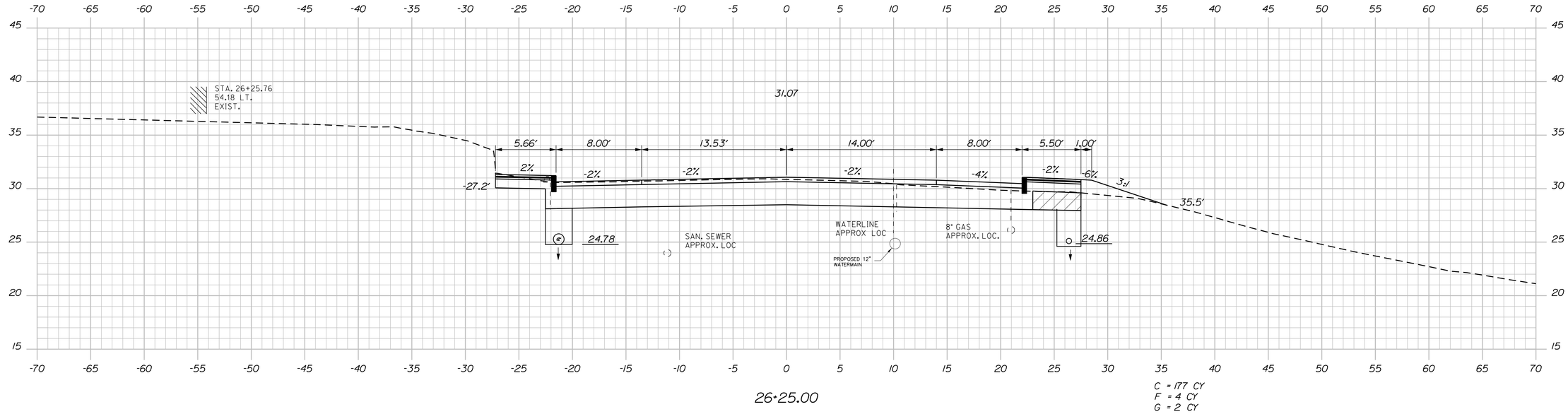
HALLOWELL
WATER STREET

CROSS SECTIONS

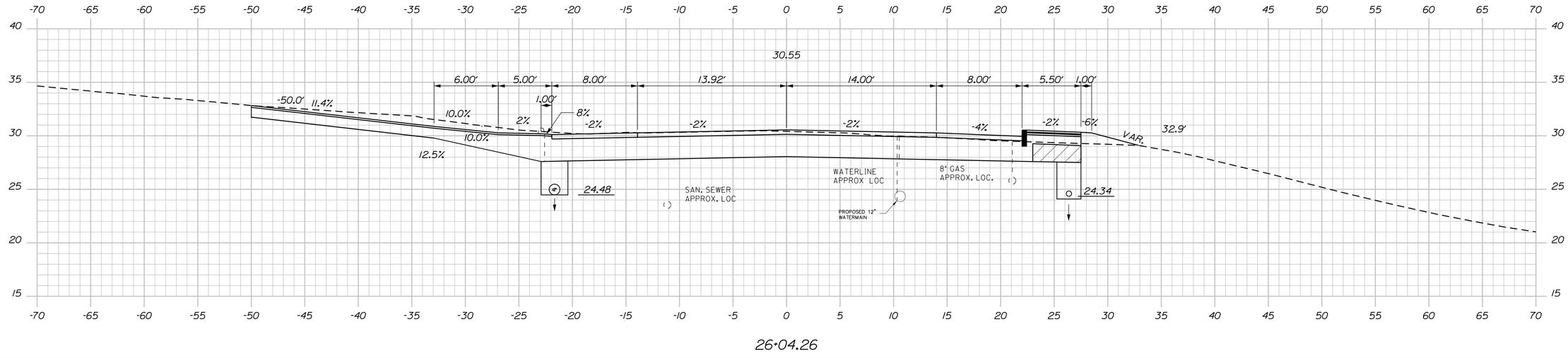
SHEET NUMBER

89

OF 172



26+25.00



26+04.26

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

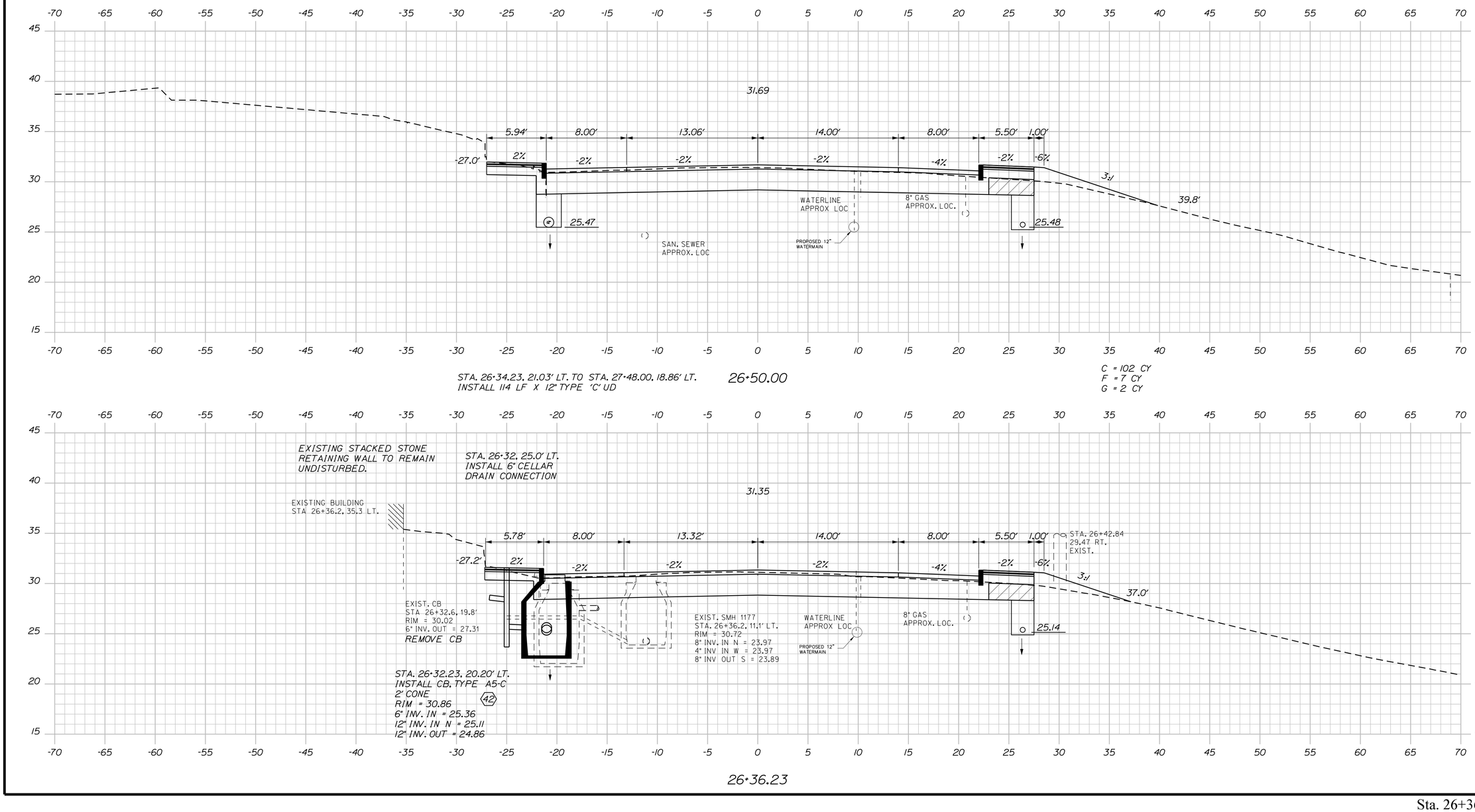
SHEET NUMBER

90

OF 172

Sta. 26+04.26 to Sta. 26+25.00

Filename: ...\090_XSECT_26+04_050.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 26+36.23 to Sta. 26+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

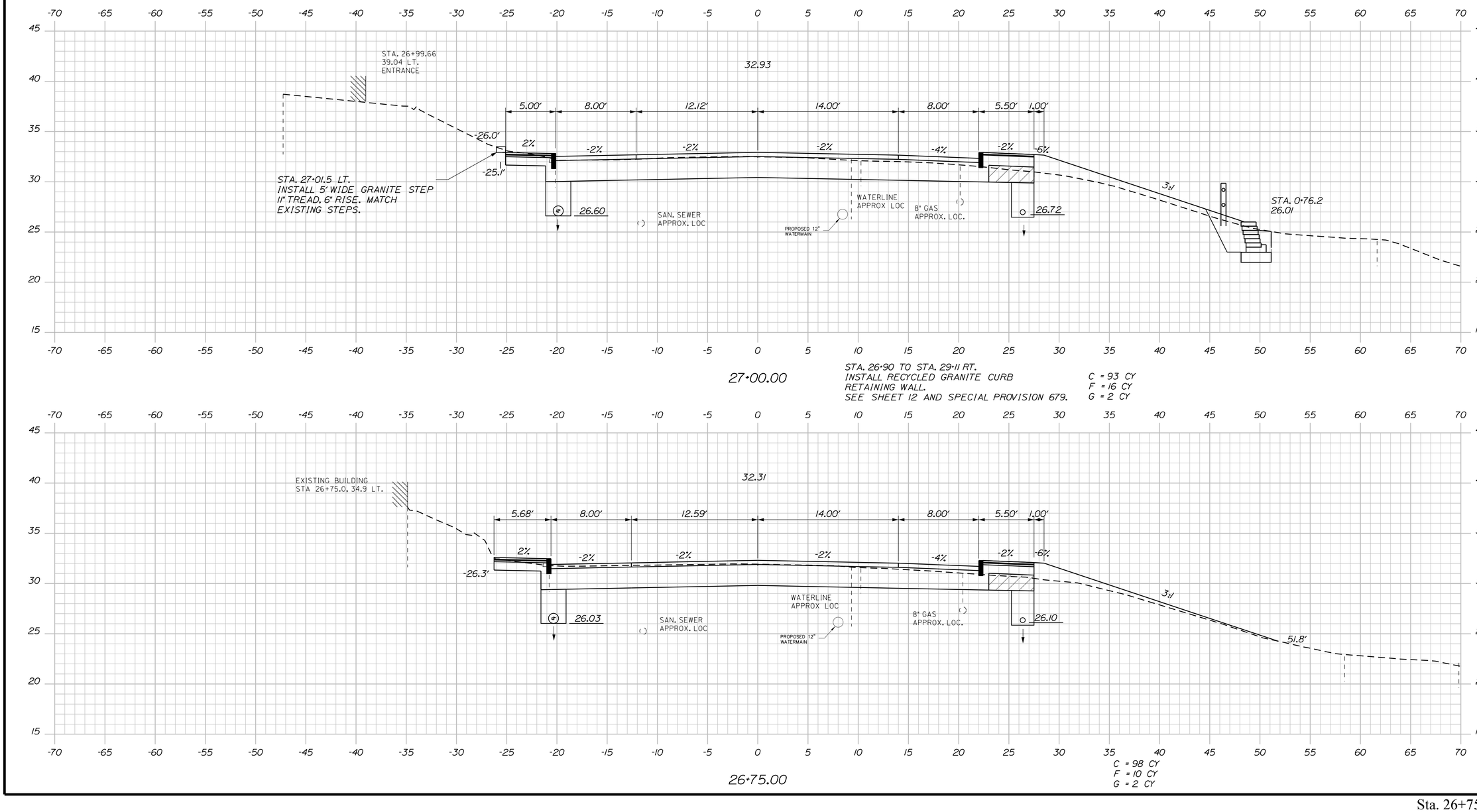
CROSS SECTIONS

SHEET NUMBER

91

OF 172

Filename: ...\091_XSECT_26+36_051.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

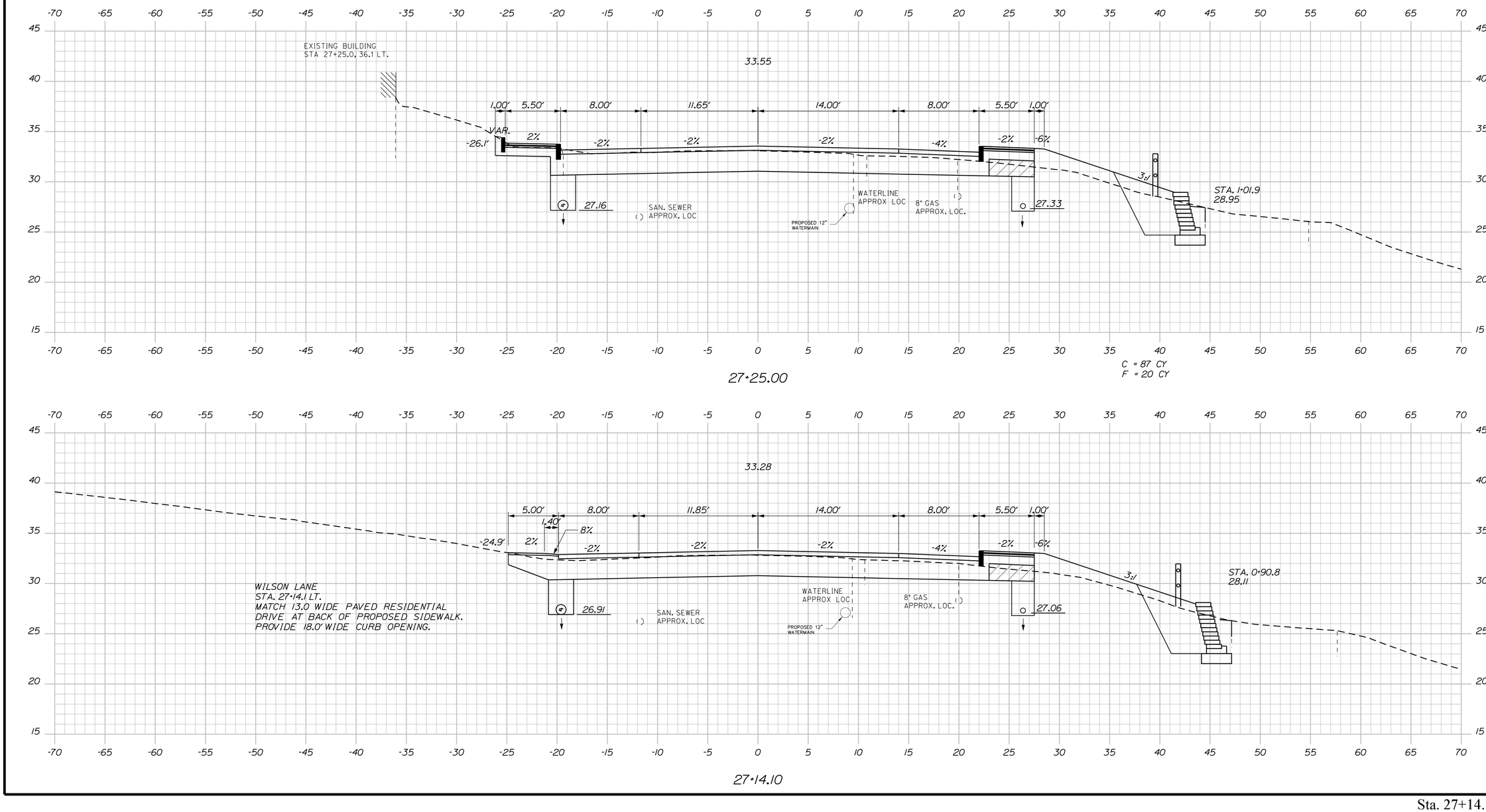
SHEET NUMBER

92

OF 172

Sta. 26+75.00 to Sta. 27+00.00

Filename: ...\092_XSECT_26+75_052.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 27+14.10 to Sta. 27+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

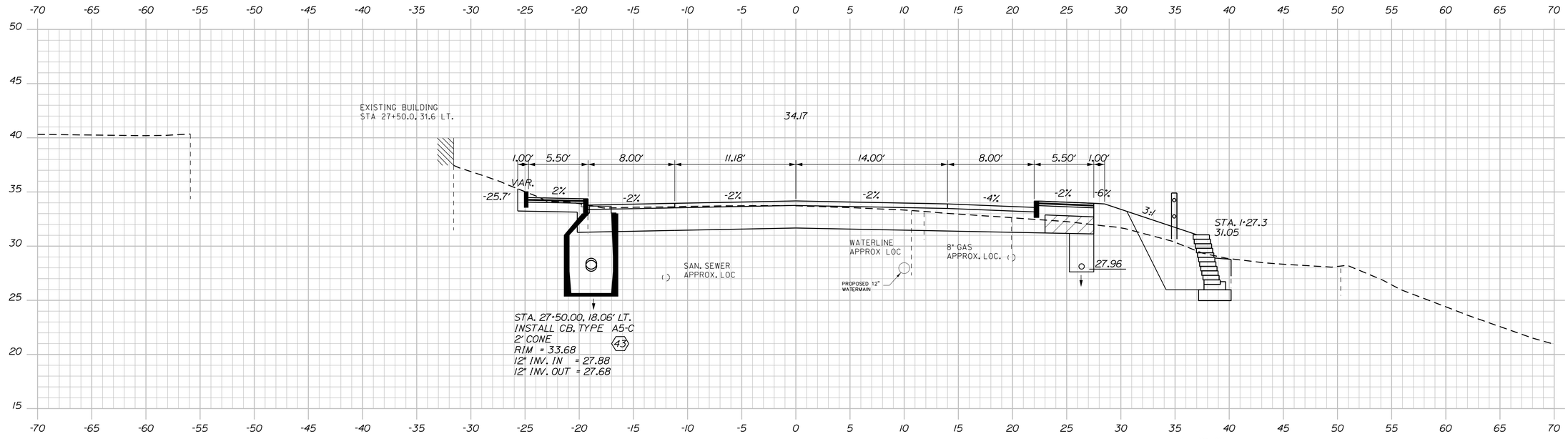
SHEET NUMBER

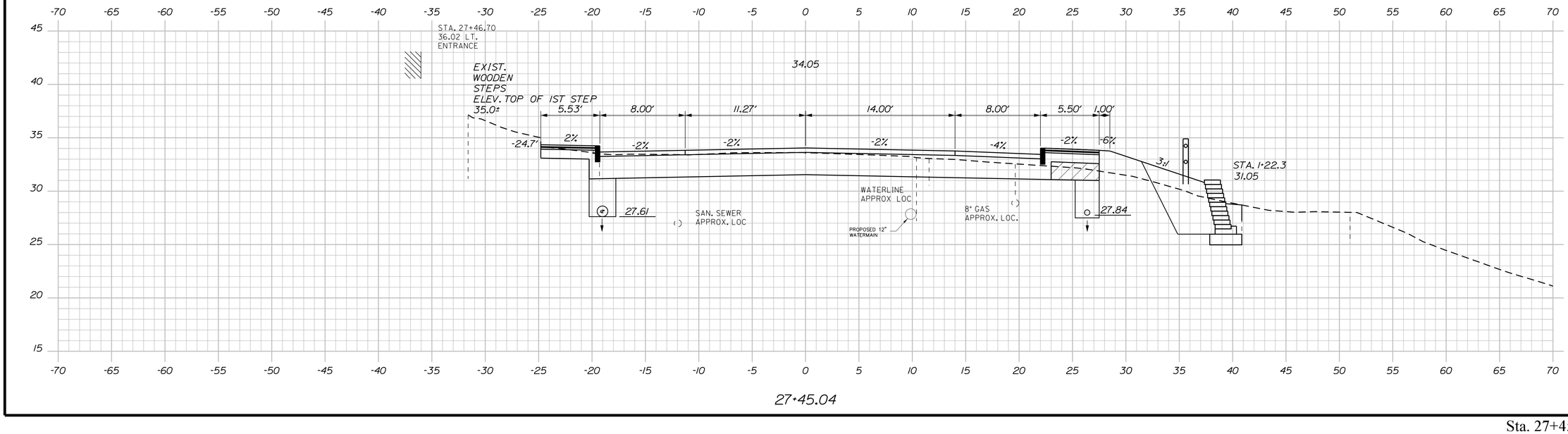
93

OF 172

Filename: ...\093_XSECT_27+14_053.dgn Division: HIGHWAY Username: common Date:1/22/2018

STA. 27+52.00, 18.89' LT. TO STA. 28+66.70, 18.71' LT.
INSTALL 117 LF X 12" TYPE 'C' UD





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

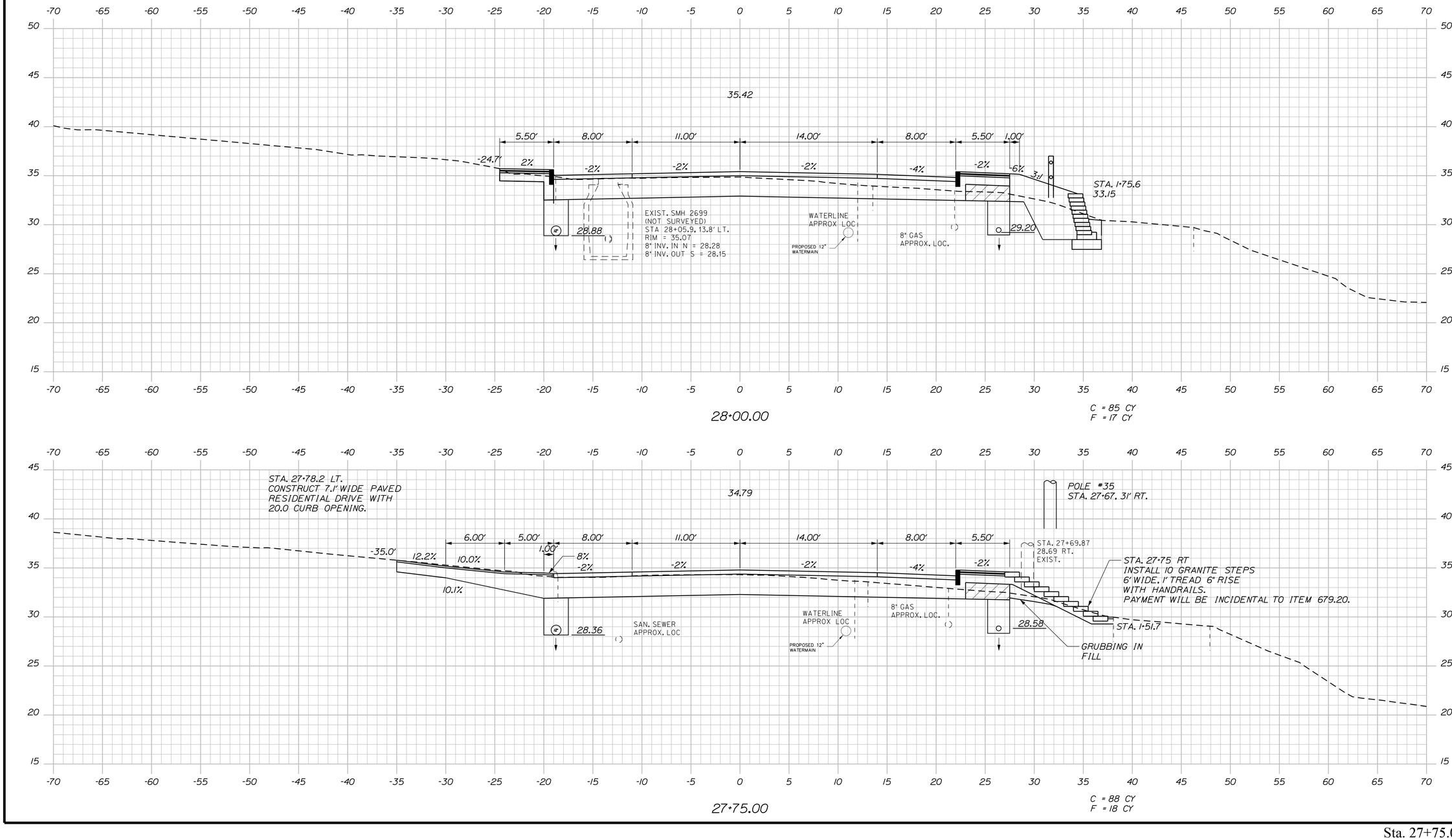
CROSS SECTIONS

SHEET NUMBER
94
OF 172

Sta. 27+45.04 to Sta. 27+50.00

Filename: ...\094_XSECT_27+45_054.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\095_XSECT_27+75_055.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

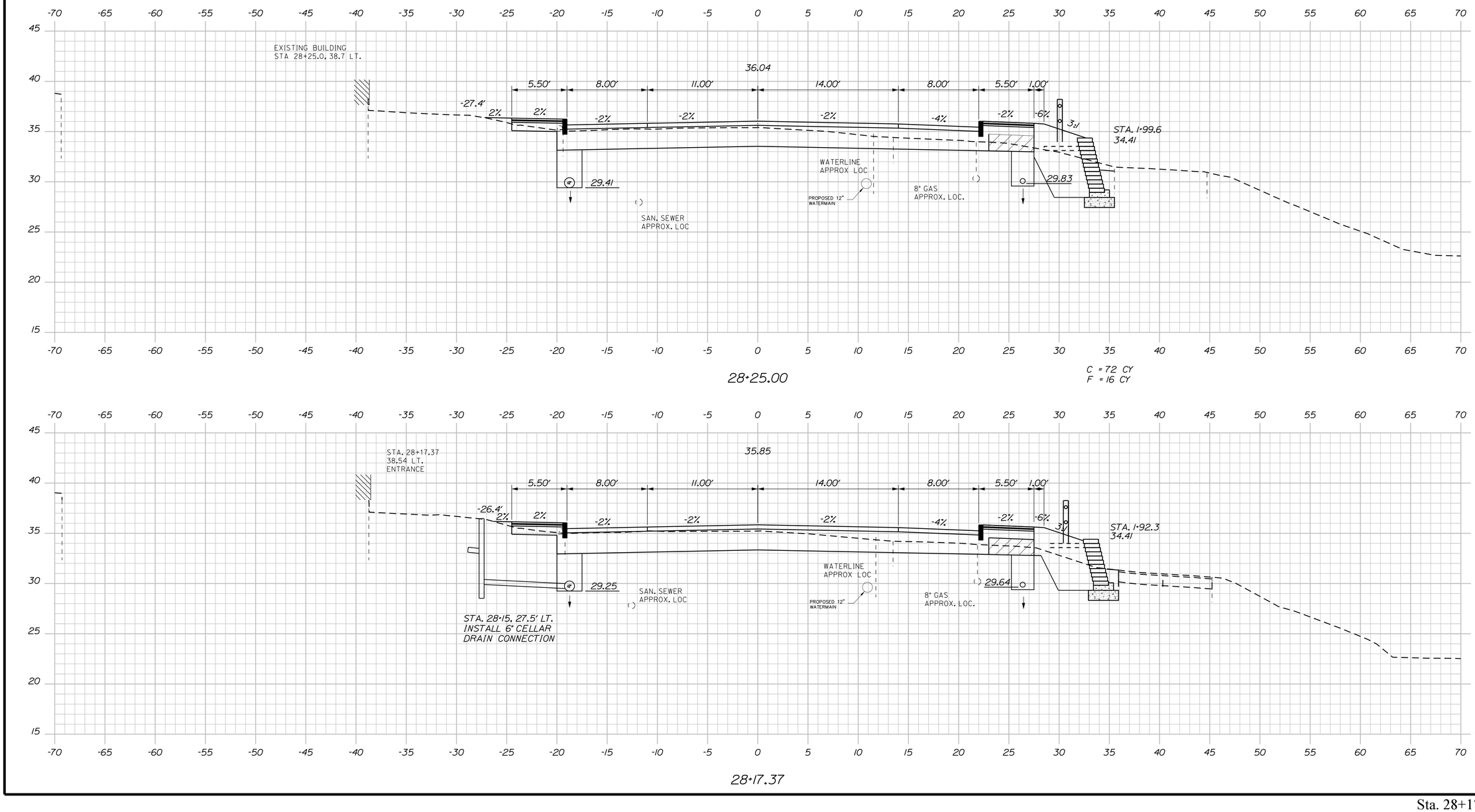
CROSS SECTIONS

SHEET NUMBER

95

OF 172

Sta. 27+75.00 to Sta. 28+00.00



Sta. 28+17.37 to Sta. 28+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

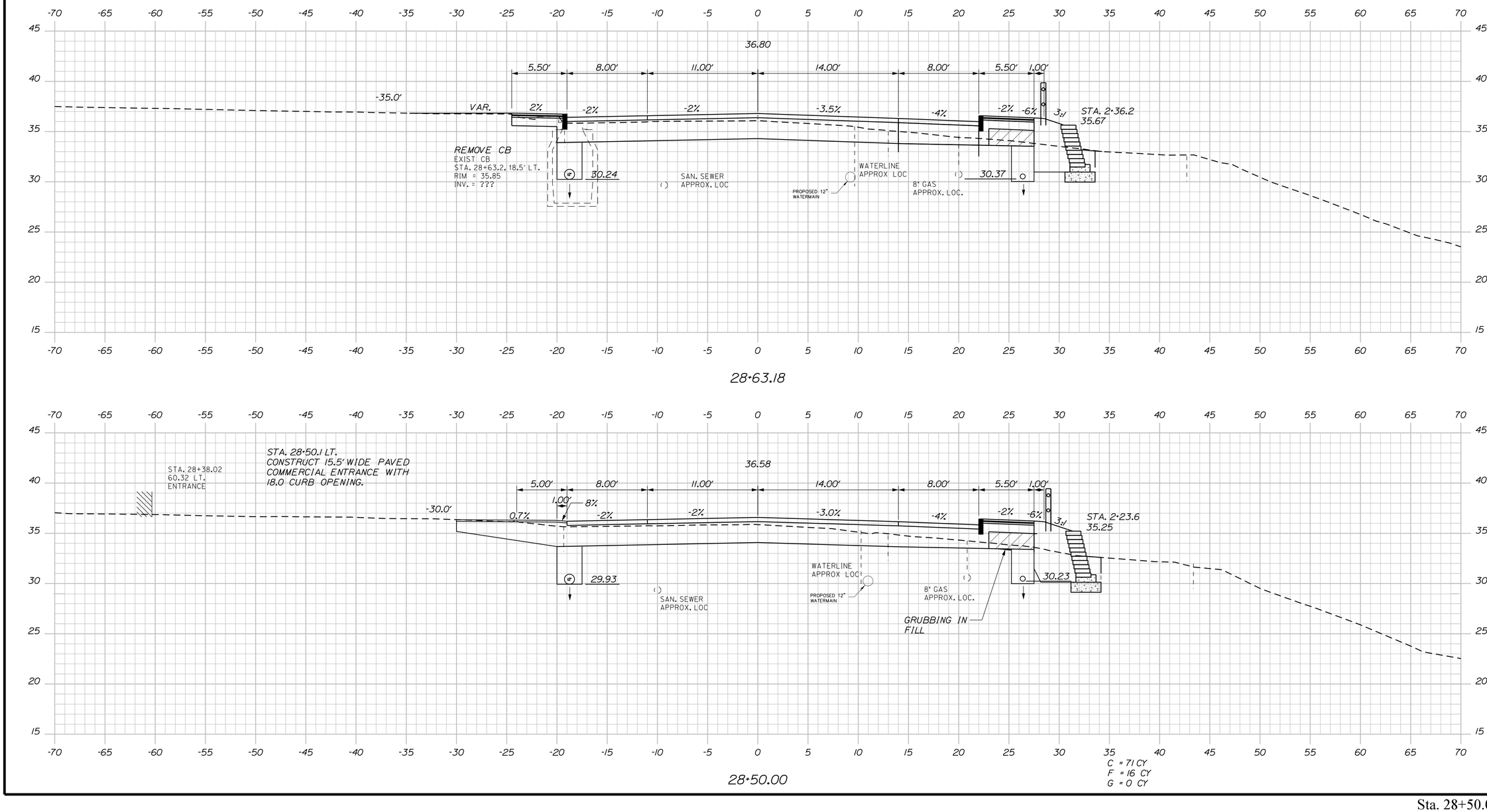
CROSS SECTIONS

SHEET NUMBER

96

OF 172

Filename: ...\096_XSECT_28+17_056.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 28+50.00 to Sta. 28+63.18

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

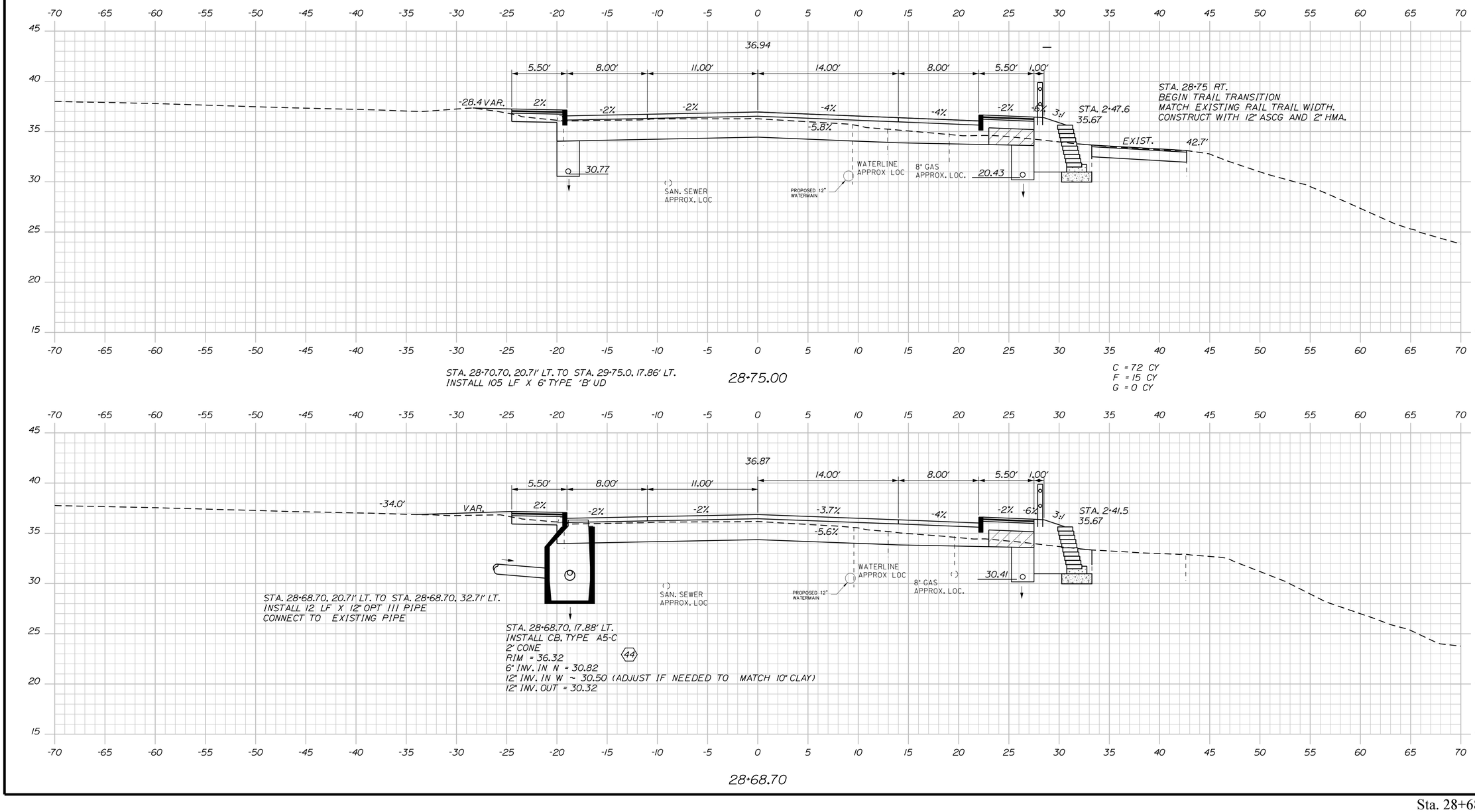
CROSS SECTIONS

SHEET NUMBER

97

OF 172

Filename: ...\097_XSECT_28+50_057.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
WATER STREET

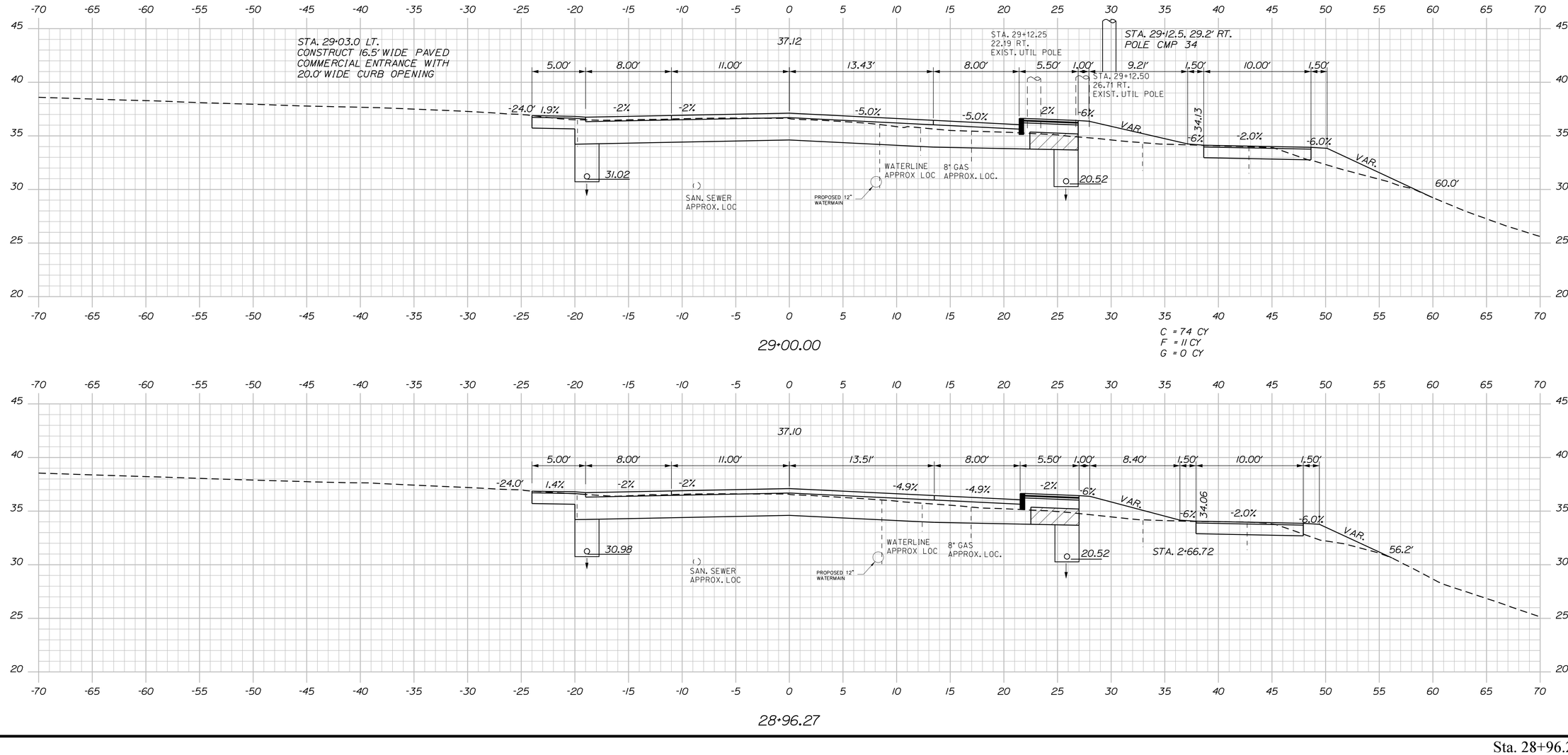
CROSS SECTIONS

SHEET NUMBER
98
OF 172

Sta. 28+68.70 to Sta. 28+75.00

Filename: ...\098_XSECT_28+68_058.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\099_XSECT_28+96_059.dgn Division: HIGHWAY Username: common 1/22/2018



Sta. 28+96.27 to Sta. 29+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

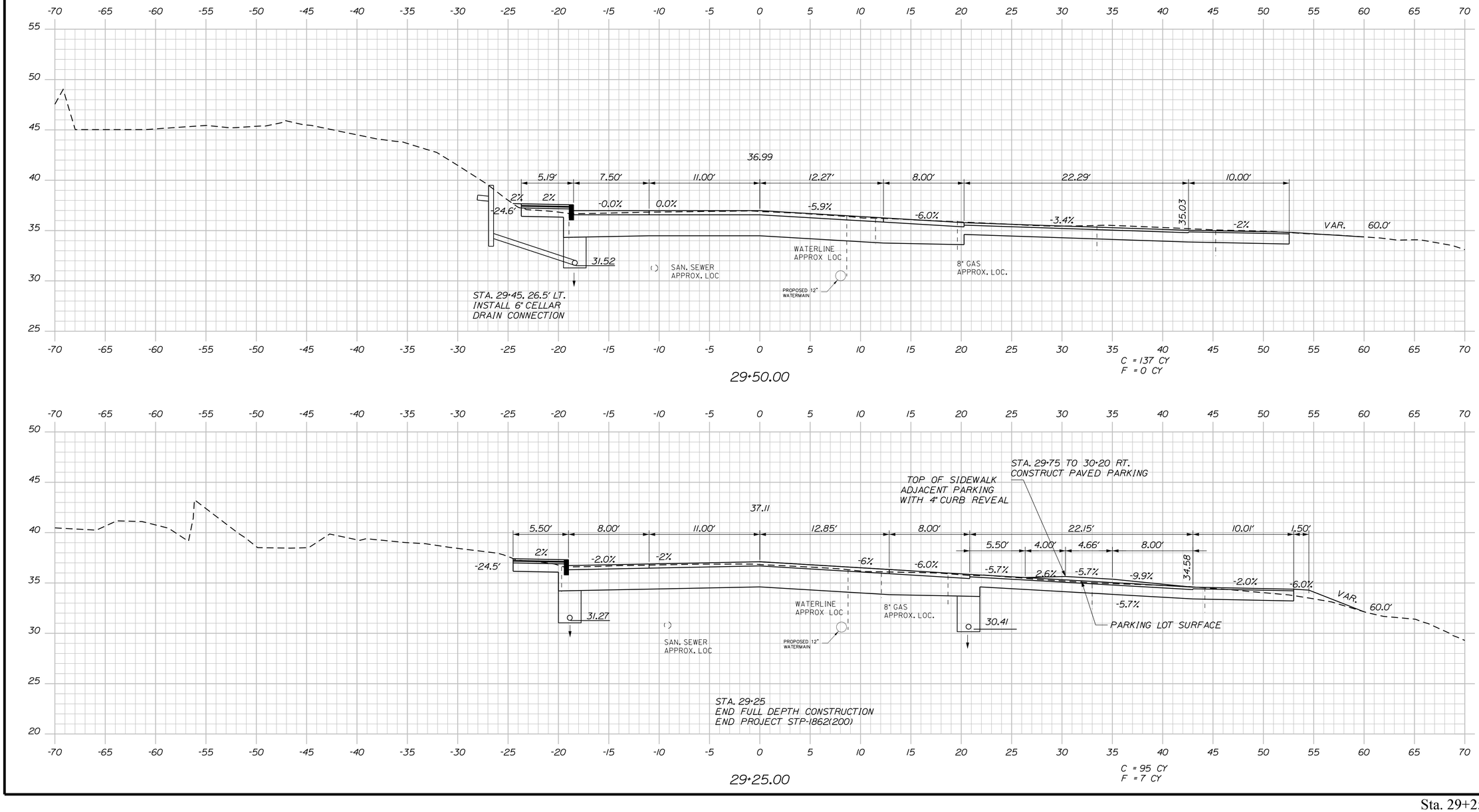
HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

99

OF 172



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER

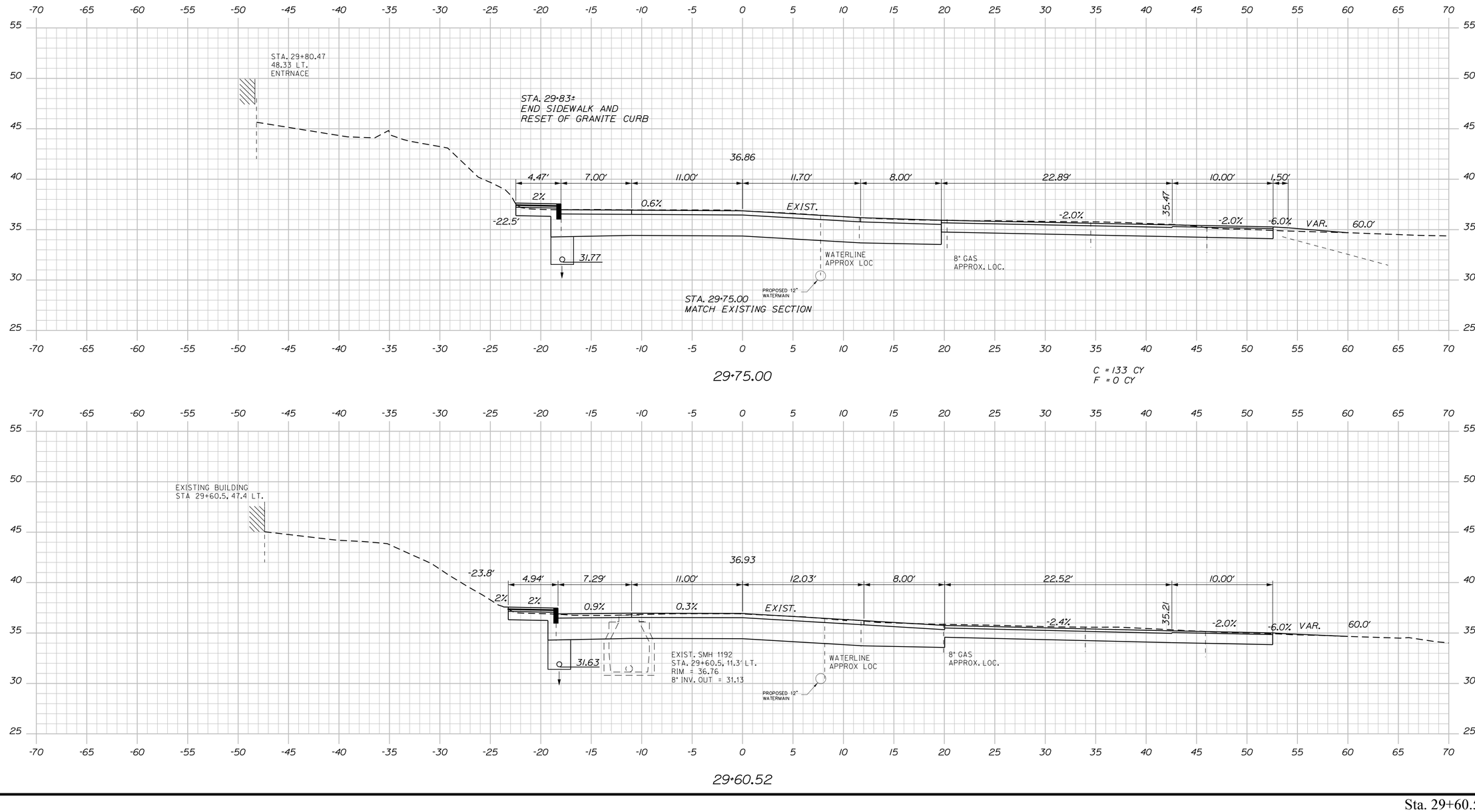
100

OF 172

Filename: ...\100_XSECT_29+25_060.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 29+25.00 to Sta. 29+50.00

Filename: ...\101_XSECT_29+60_061.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 29+60.52 to Sta. 29+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	LG
DESIGN2-DETAILED2		LG
DESIGN3-DETAILED3		
REVISIONS 1		1-18
REVISIONS 2		1-18
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

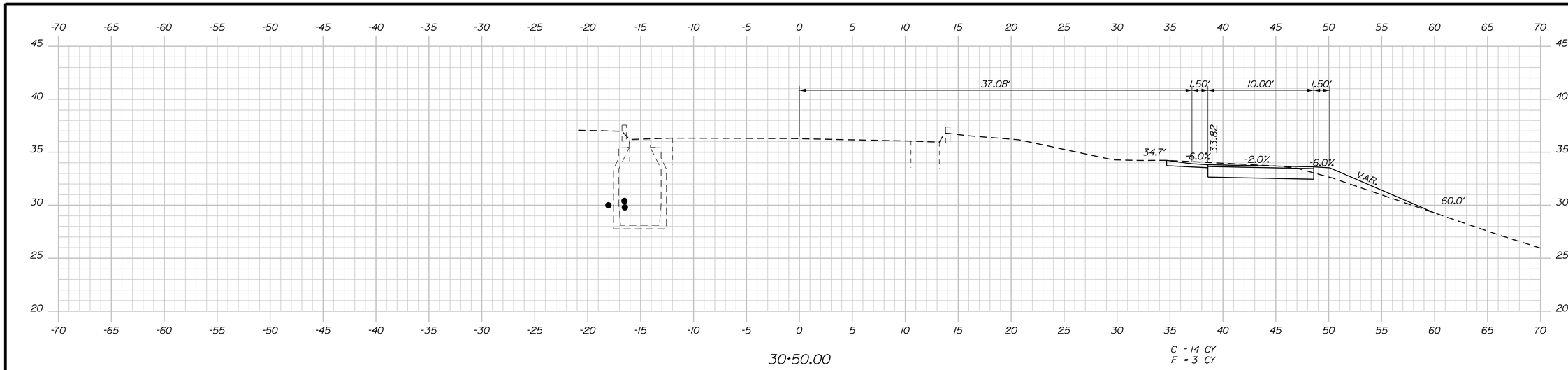
HALLOWELL WATER STREET

CROSS SECTIONS

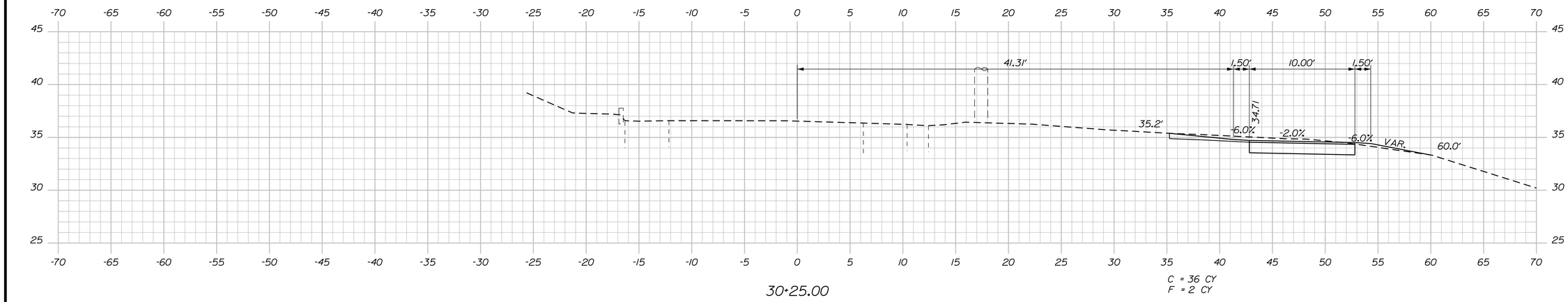
SHEET NUMBER

101

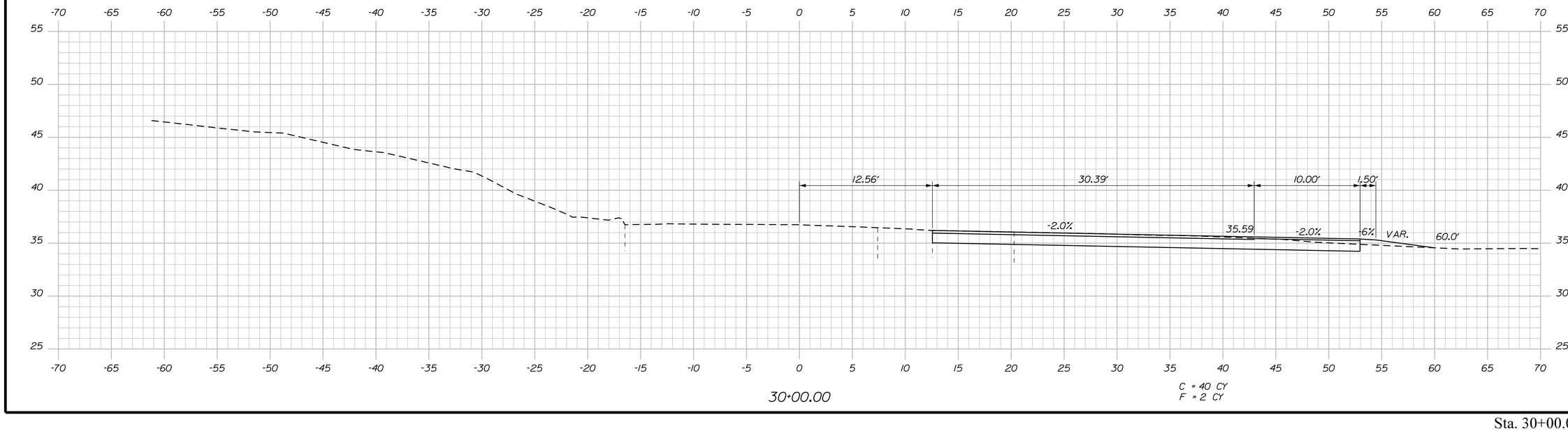
OF 172



30+50.00



30+25.00



30+00.00

Sta. 30+00.00 to Sta. 30+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No. 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

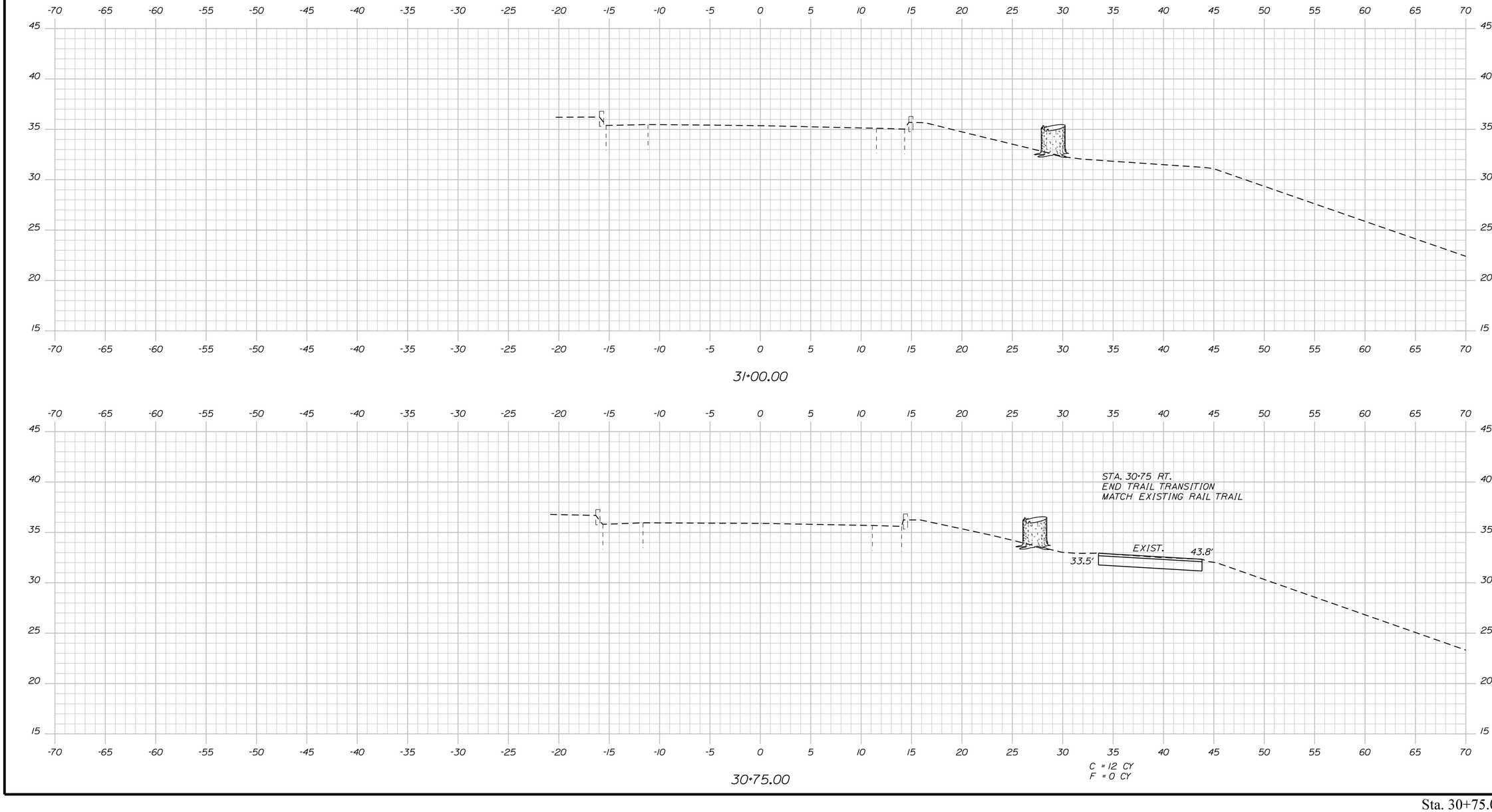
			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WATER STREET

CROSS SECTIONS

SHEET NUMBER
102
OF 172

Filename: ...\102_XSECT_30+00_063.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 30+75.00 to Sta. 31+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

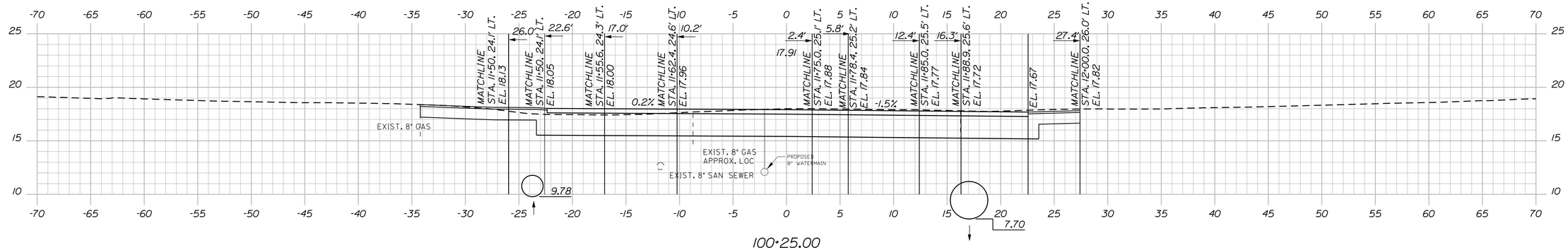
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

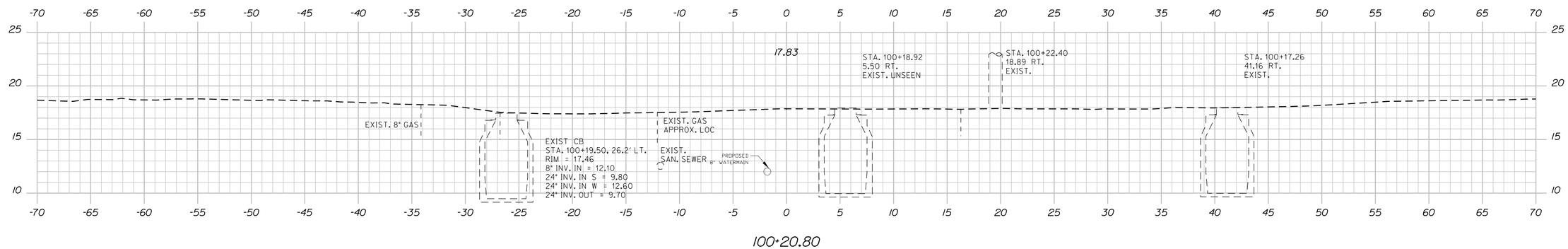
HALLOWELL
WATER STREET

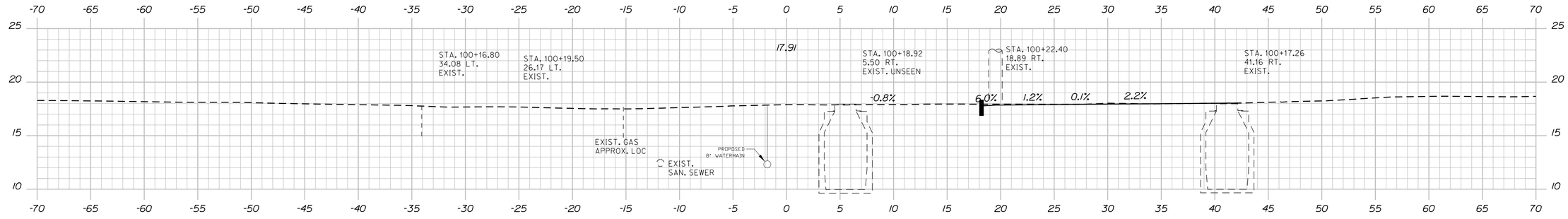
CROSS SECTIONS

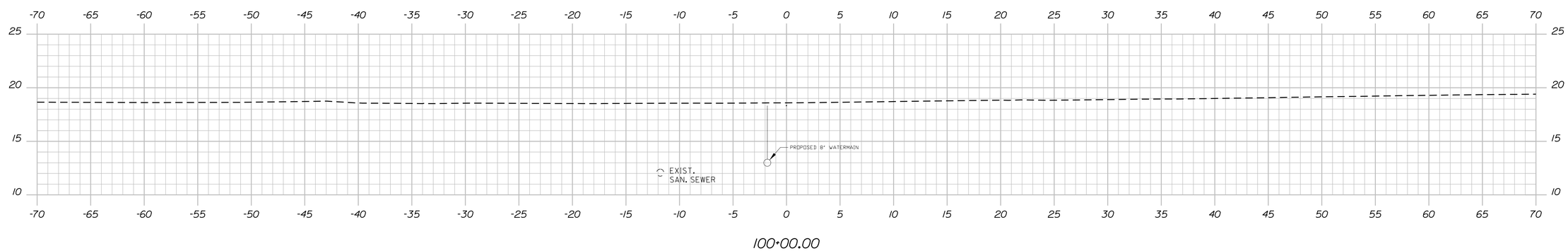
SHEET NUMBER
103
OF 172

Filename: ...\103_XSECT_30+75_064.dgn Division: HIGHWAY Username: common Date:1/22/2018









STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
TEMPLE STREET

CROSS SECTIONS

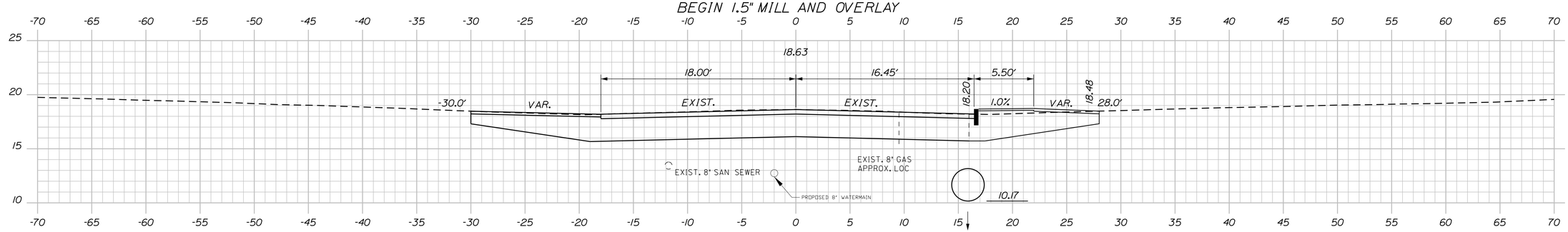
SHEET NUMBER
104
OF 172

Sta. 100+00.00 to Sta. 100+25.00

Filename: ...\104_XSECT_100+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018

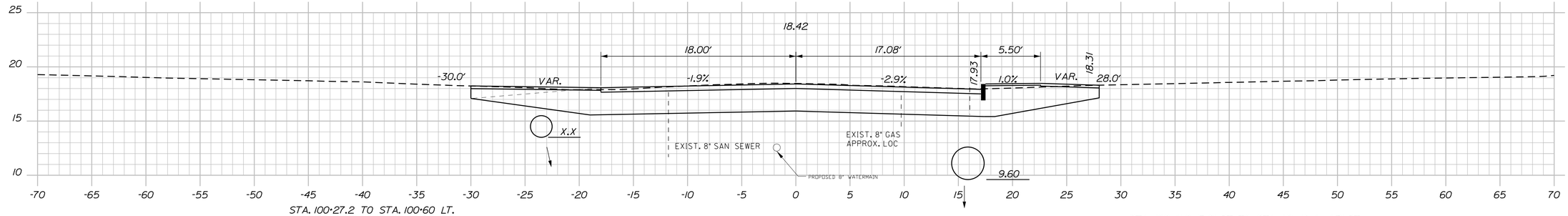
Filename: ...\105_XSECT_100+33_002.dgn Username: common Division: HIGHWAY Date:1/22/2018

STA. 100+60
END FULL RECONSTRUCTION
MATCH EXISTING SECTION
BEGIN 1.5" MILL AND OVERLAY



100+60.00

STA. 100+35 TO STA. 100+60
TRANSITION SUBGRADE TO MATCH
EXISTING PAVEMENT



STA. 100+27.2 TO STA. 100+60 LT.
CONSTRUCT COMMERCIAL PAVED
PARKING LOT.

100+50.00

C = 117 CY
F = 0CY

STA 100+41.9, 17.9' RT. TO STA 101+49.4, 14.7' RT.
INSTALL 108 LF X 36" OPT III PIPE

STA. 11+48.3, 21.4' LT. TO STA. 100+33.4, 21.5' LT.
INSTALL 12 LF X 24" OPT III PIPE

REMOVE CB
EXIST. CB
STA 100+35.8, 16.6' LT.
RIM = 17.32
8" INV. OUT = 13.50

100+35.80

STA. 100+35.8, 18.3' LT. TO STA. 100+37.9, 15.0' RT.
INSTALL 34 LF X 24" OPT III PIPE

STA 11+86.9, 3.1' RT. TO STA STA 100+34.1, 18.6' RT.
INSTALL 39 LF X 42" RCP, CLASS III

100+33.57

Sta. 100+33.57 to Sta. 100+60.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	ALG
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE
1-18
1-18

HALLOWELL
TEMPLE STREET

CROSS SECTIONS

SHEET NUMBER

105

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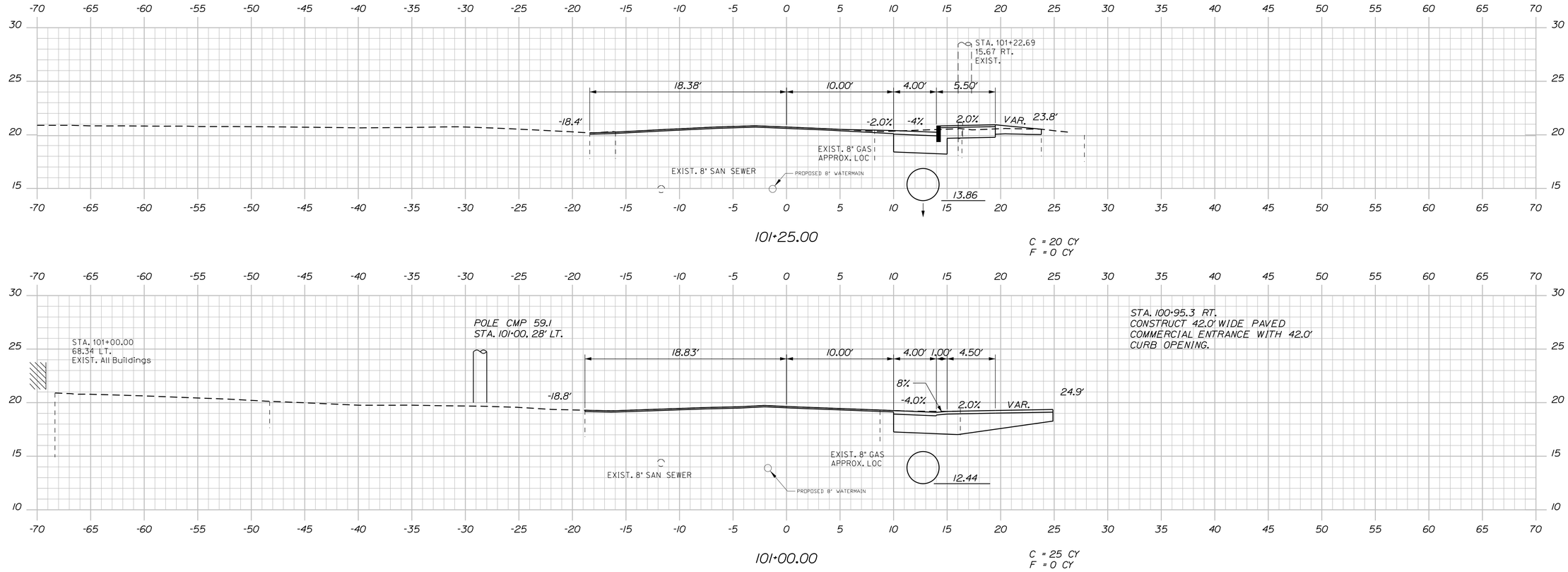


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
TEMPLE STREET

CROSS SECTIONS

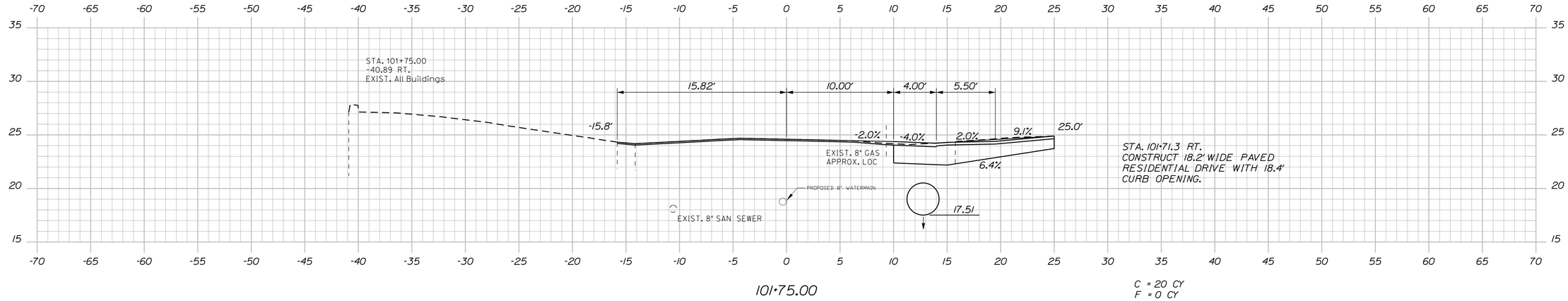
SHEET NUMBER

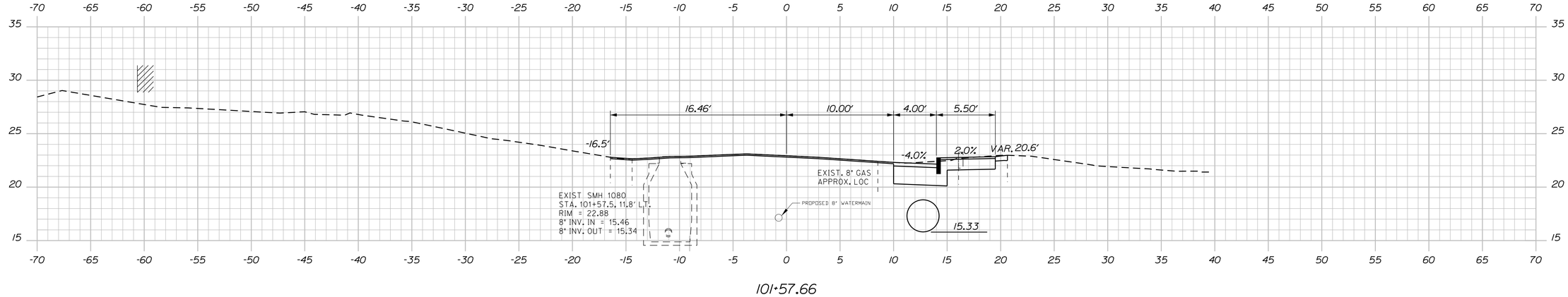
106

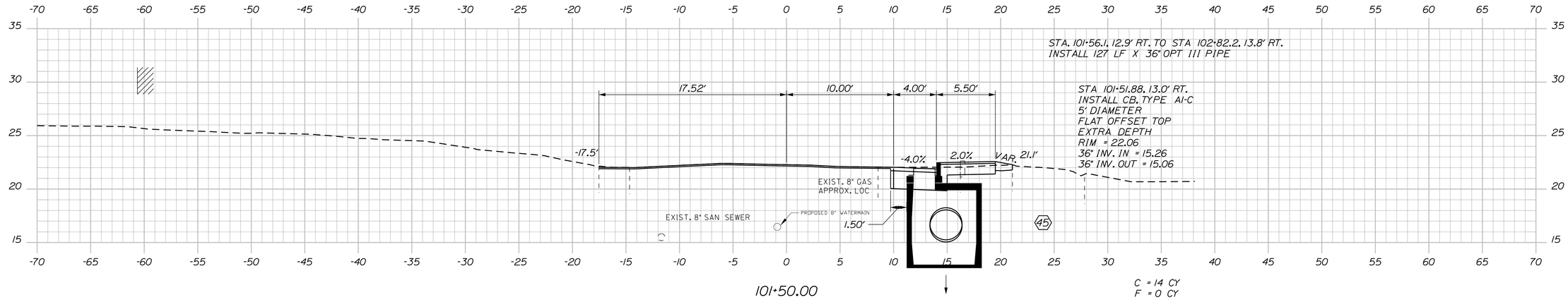
OF 172

Sta. 100+75.00 to Sta. 101+25.00

Filename: ...\106_XSECT_100+75_003.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No. 7960 · REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
TEMPLE STREET

CROSS SECTIONS

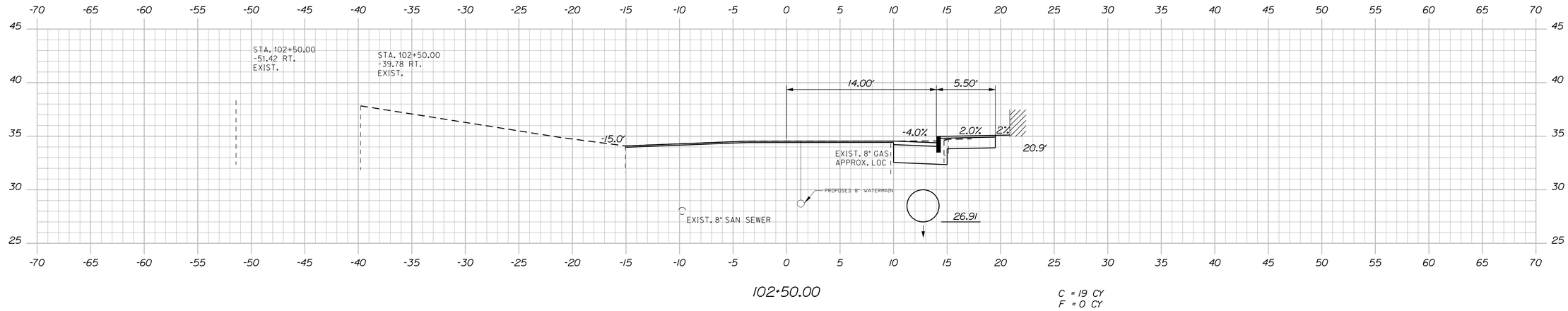
SHEET NUMBER

107

OF 172

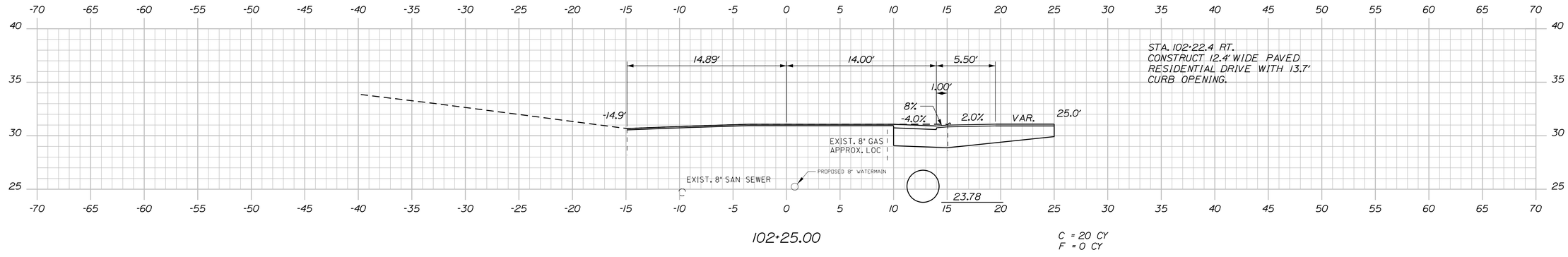
Sta. 101+50.00 to Sta. 101+75.00

Filename: ...\107_XSECT_101+50_004.dgn Division: HIGHWAY Username: common Date:1/22/2018



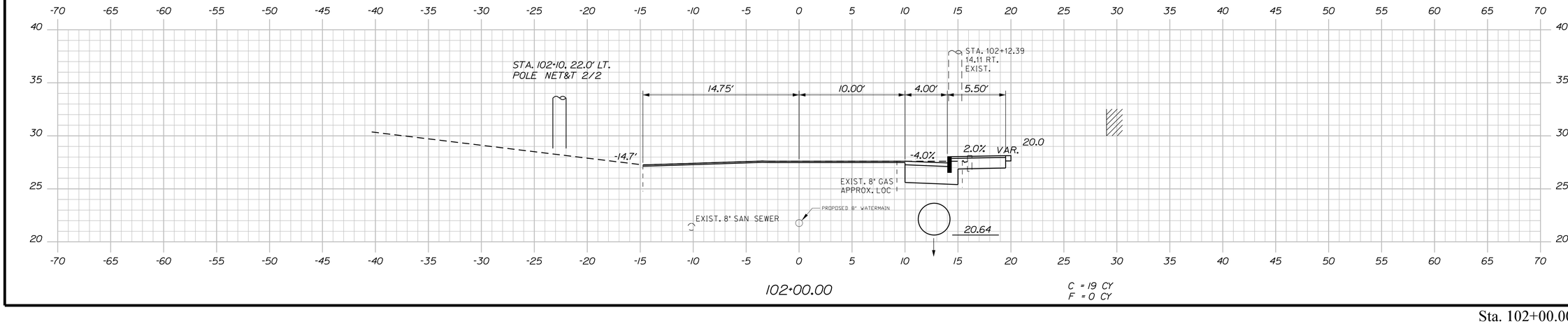
102+50.00

C = 19 CY
F = 0 CY



102+25.00

C = 20 CY
F = 0 CY



102+00.00

C = 19 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	P.E. NUMBER
		1/12/18	DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
TEMPLE STREET

CROSS SECTIONS

SHEET NUMBER

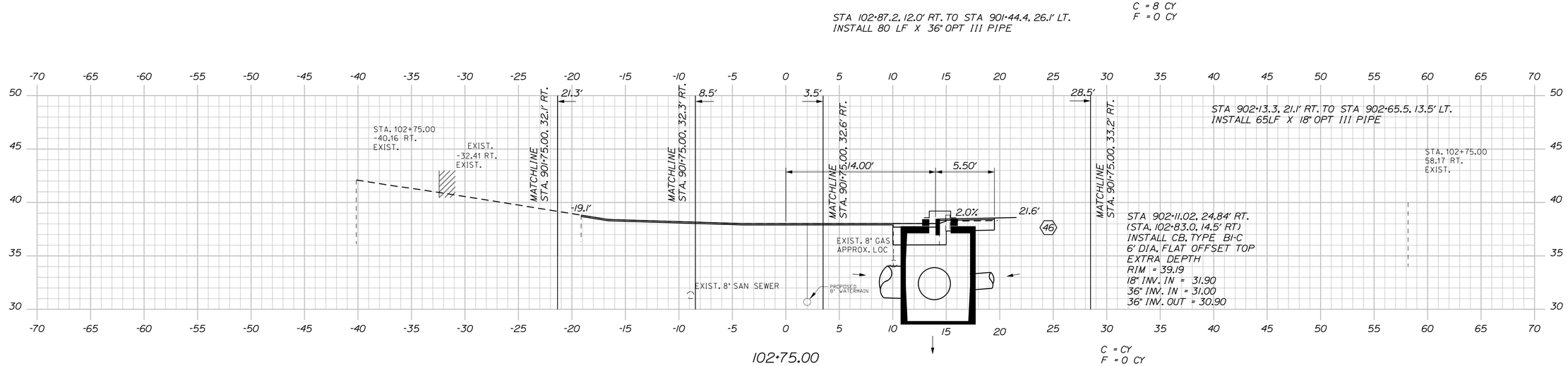
108

OF 172

Sta. 102+00.00 to Sta. 102+50.00

Filename: ...\108_XSECT_102+00_005.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\109_XSECT_102+75_006.dgn Division: HIGHWAY Username: common Date:1/22/2018



PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

HALLOWELL
TEMPLE STREET

CROSS SECTIONS

SHEET NUMBER

109

OF 172

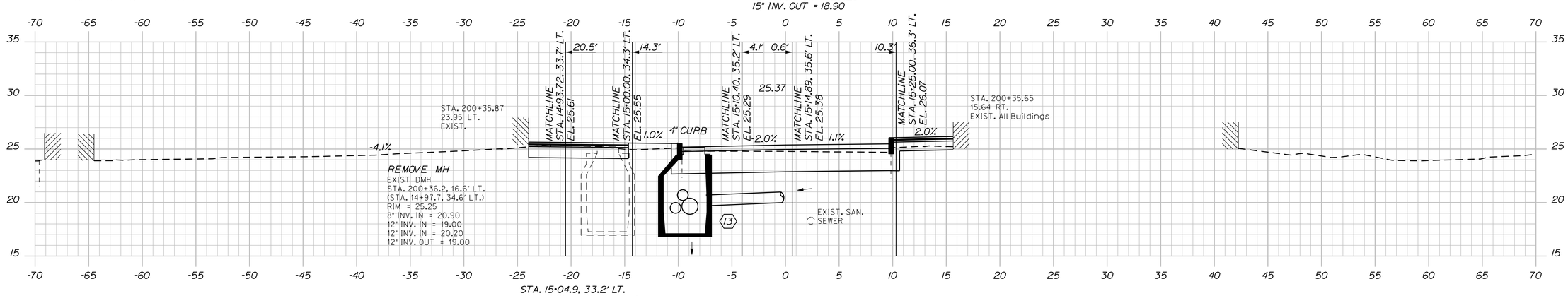
Sta. 102+75.00 to Sta. 102+75.00

STA. 200+36.8, 11.5' LT. TO APPROX. STA. 200+50, 20.5'
INSTALL 16 LF X 12" OPT III PIPE.
CONNECT TO EXISTING.

STA. 200+38.0, 10.0' LT. TO APROX. STA. 200+57.0, 17.0' LT.
INSTALL 20 LF X 12" OPT III PIPE.
CONNECT TO EXISTING.

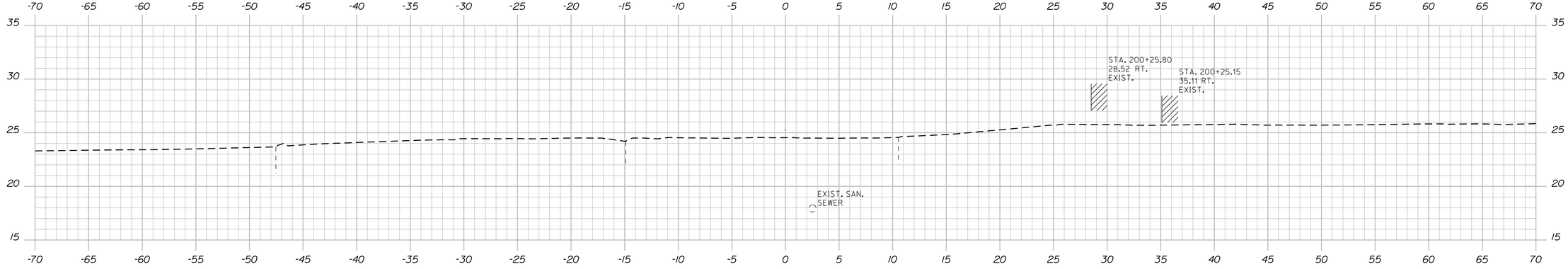
STA. 200+35.86, 8.52' LT.
(15+05.86, 35.03' LT.)
INSTALL CB, TYPE A5-C
2' CONE, EXTRA DEPTH
RIM = 25.14
12" INV. IN N = 19.70
12" INV. IN W = 19.00
12" NV. IN SW = 20.20
15" INV. OUT = 18.90

STA 200+37.9, 8.7' LT. TO STA 200+68.6, 8.4' RT.
INSTALL 36 LF X 12" OPT III PIPE

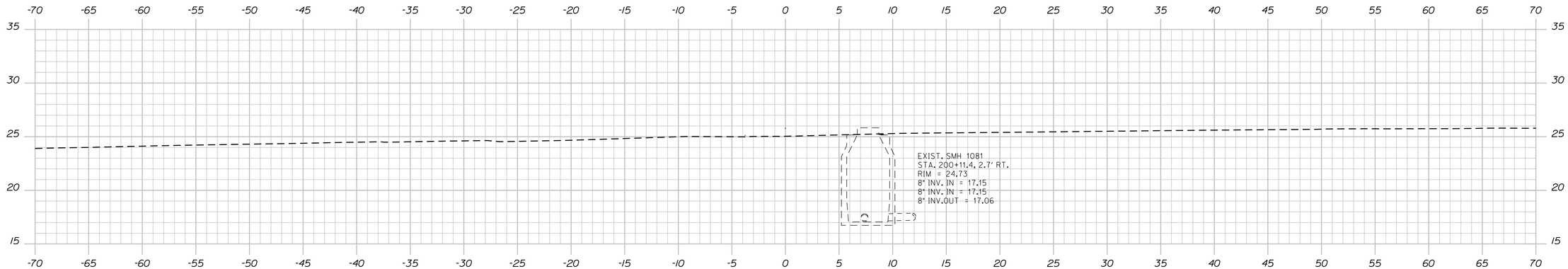


STA. 15+04.9, 33.2' LT.
(STA 200+34.10, 9.7' LT.)
TO STA. 15+00.0, 5.0' RT.
INSTALL 39 LF X 15" RCP CLASS III PIPE

200+35.65



200+25.00



200+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN
DESIGN-DETAILED	ALC
CHECKED-REVIEWED	ALC
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	BY	DATE
REVISIONS 1	JLE	1-18
REVISIONS 2		1-18
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
ACADEMY STREET

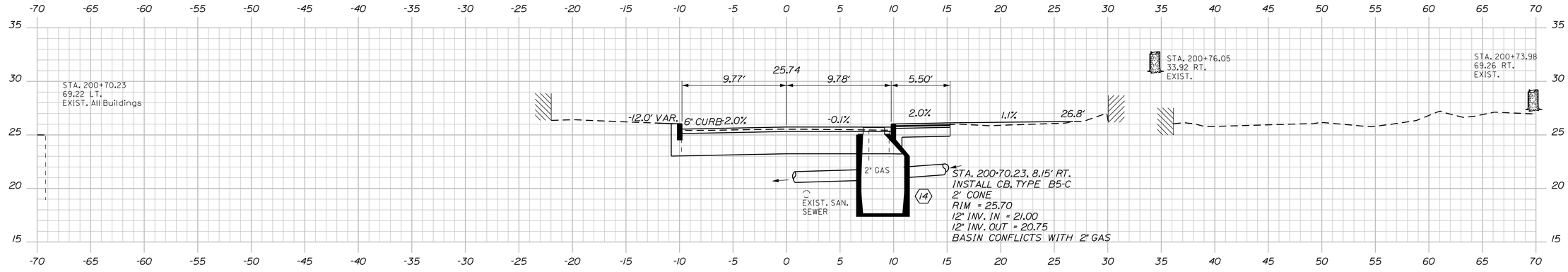
CROSS SECTIONS

SHEET NUMBER
110
OF 172

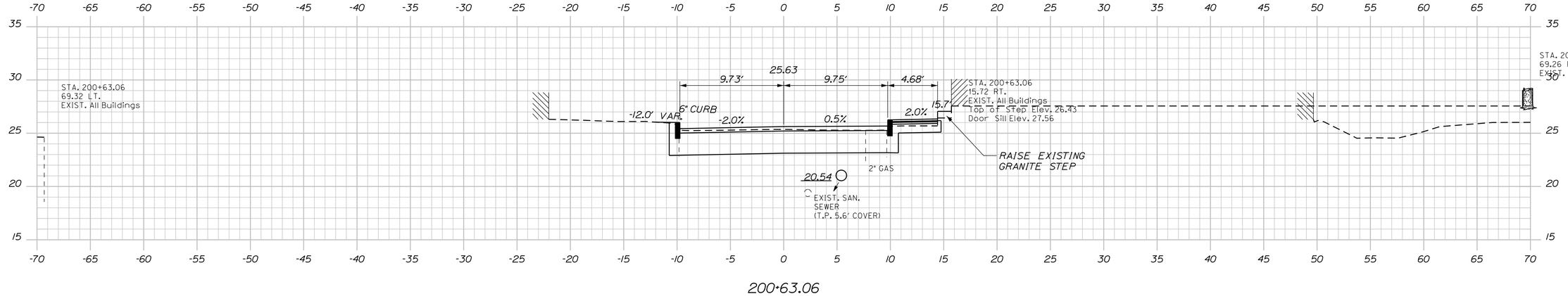
Sta. 200+00.00 to Sta. 200+35.65

Filename: ...\110_XSECT_200+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018

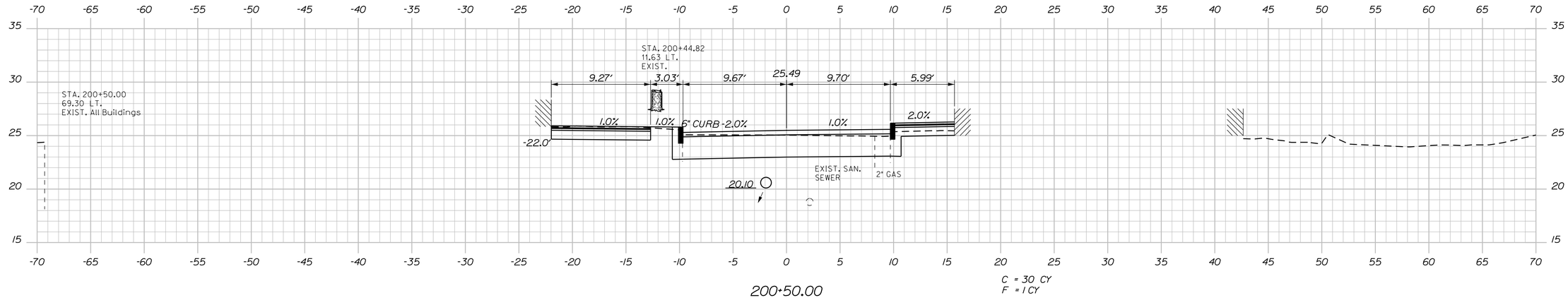
STA 200+71.79, 10.78' RT. TO STA 200+77.7, 16.2' RT.
INSTALL 8 LF X 12" OPT III PIPE. CONNECT TO EXISTING SYSTEM.



200+70.23



200+63.06



200+50.00

C = 30 CY
F = 1 CY

Sta. 200+50.00 to Sta. 200+70.23

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
ERNEST SARTIN		
PROJ. MANAGER		
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
ACADEMY STREET

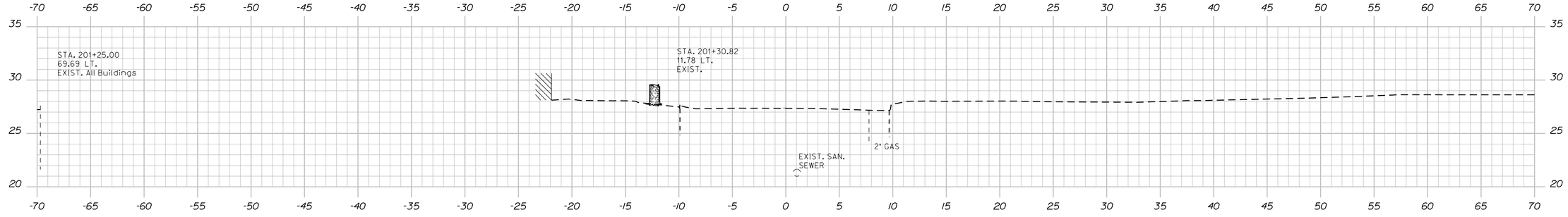
CROSS SECTIONS

SHEET NUMBER

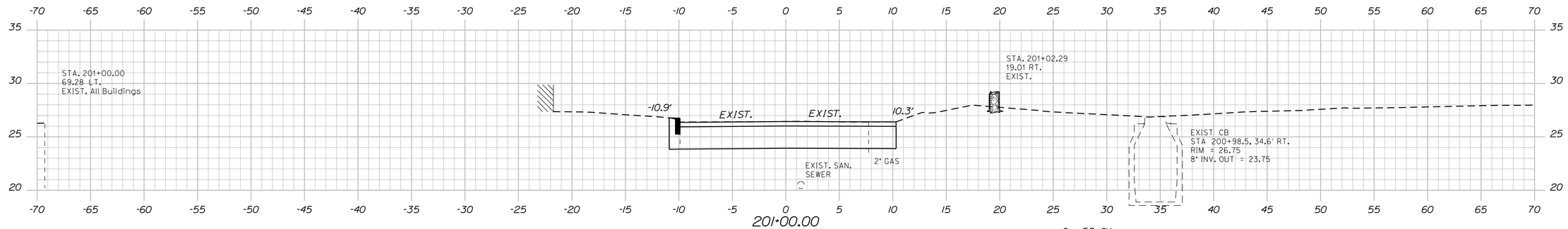
111

OF 172

Date:1/22/2018
Username: common
Division: HIGHWAY
Filename: ...\111_XSECT_200+50_002.dgn

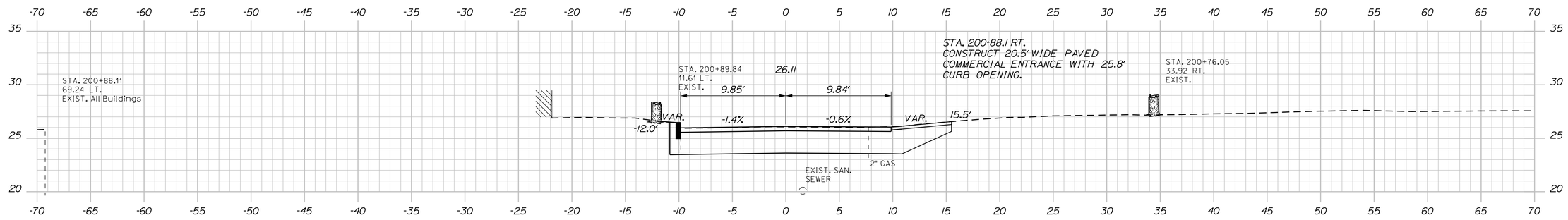


201+25.00

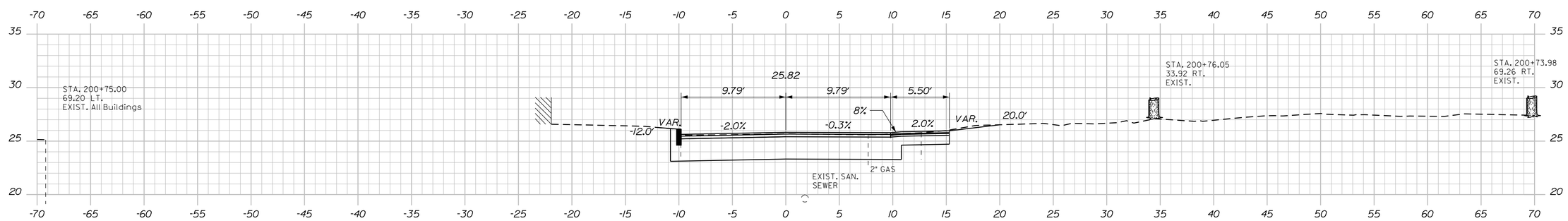


201+00.00
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION

C = 58 CY
F = 0 CY



200+88.11



200+75.00

C = 51 CY
F = 1 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960

P.E. NUMBER

1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
ACADEMY STREET

CROSS SECTIONS

SHEET NUMBER

112

OF 172

Sta. 200+75.00 to Sta. 201+25.00

Filename: ...\112_XSECT_200+75_003.dgn Division: HIGHWAY Username: common Date:1/22/2018

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
ACADEMY STREET

CROSS SECTIONS

SHEET NUMBER

113

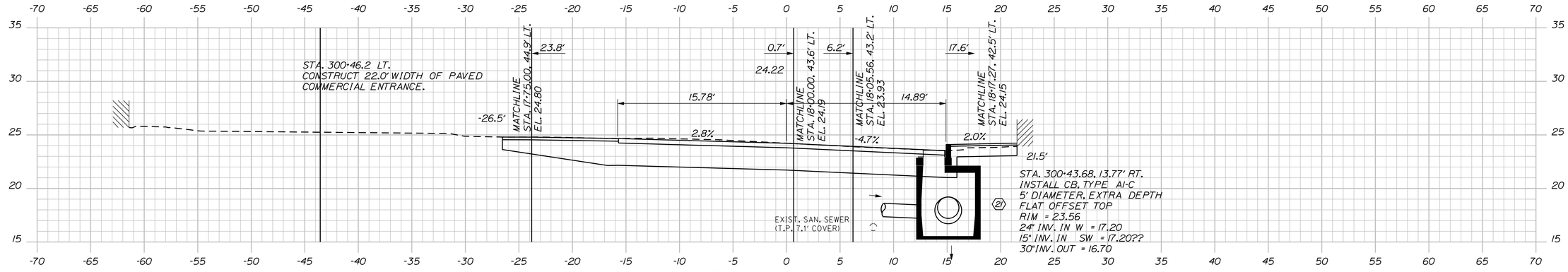
OF 172

Sta. 201+50.00 to Sta. 202+00.00

Filename: ...\113_XSECT_201+50_004.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\114_XSECT_300+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018

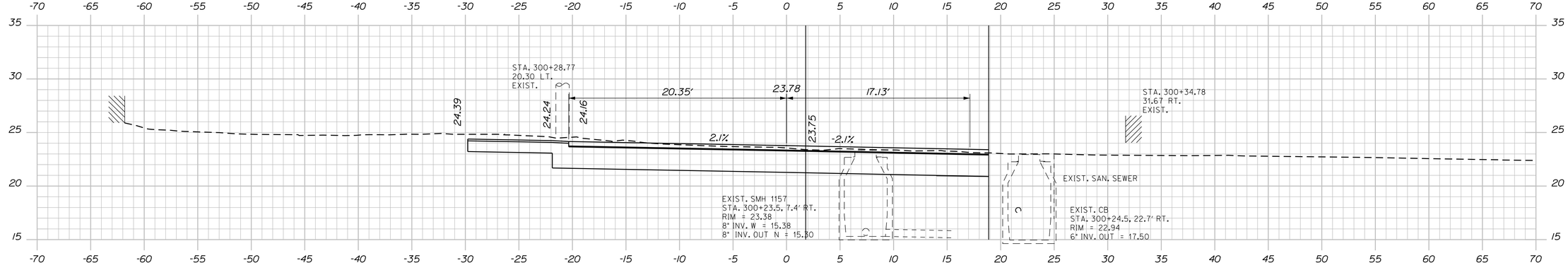
STA 300+46.68, 15.41' RT. TO STA 301+68.77, 14.61' RT.
INSTALL 123LF X 24" TYPE 'C' UD.



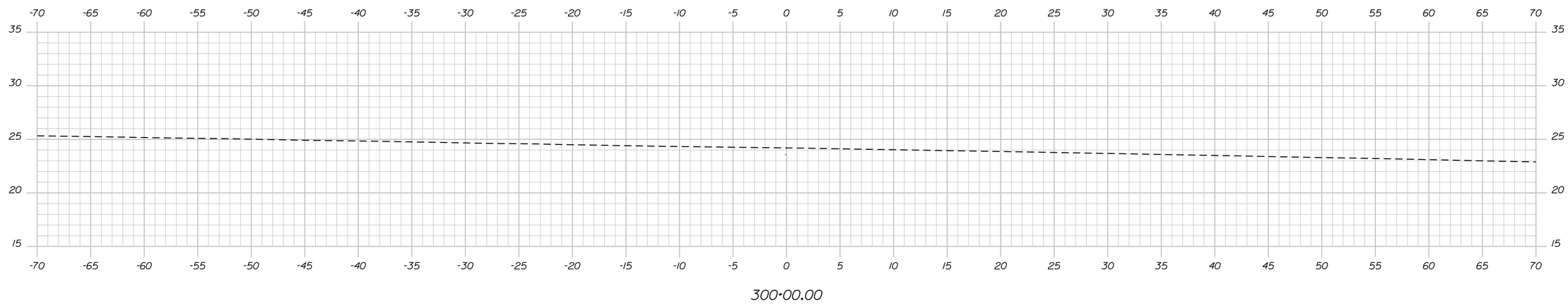
STA 300+51.09, 13.07' LT. TO STA 300+44.43, 12.60' RT.
INSTALL 27 LF X 15" OPT III PIPE

300+43.68

STA 18+14.8, 4.0' LT TO STA 300+41.2, 15.3' RT.
INSTALL 45 LF X 30" RCP, CLASS III



300+25.00



300+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

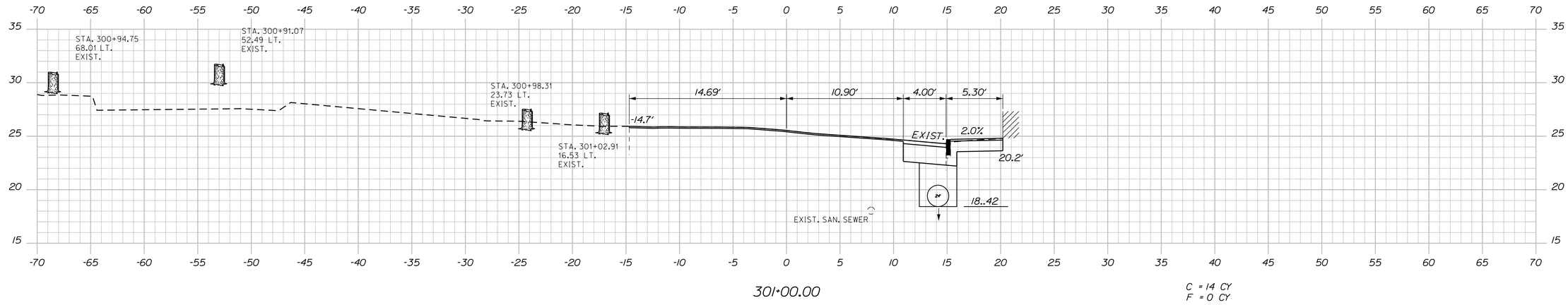
	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

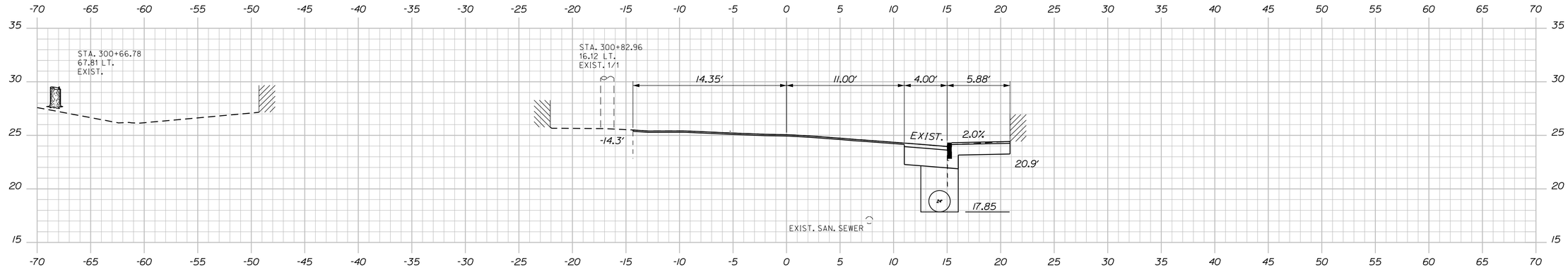
HALLOWELL
UNION STREET

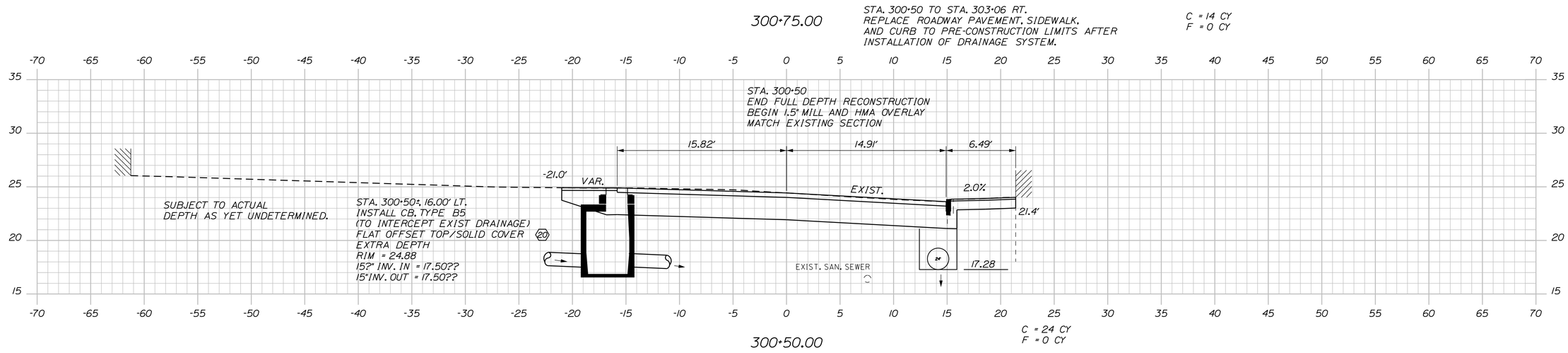
CROSS SECTIONS

SHEET NUMBER
114
OF 172

Sta. 300+00.00 to Sta. 300+43.68







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE
1-18
1-18

HALLOWELL
UNION STREET

CROSS SECTIONS

SHEET NUMBER

115

OF 172

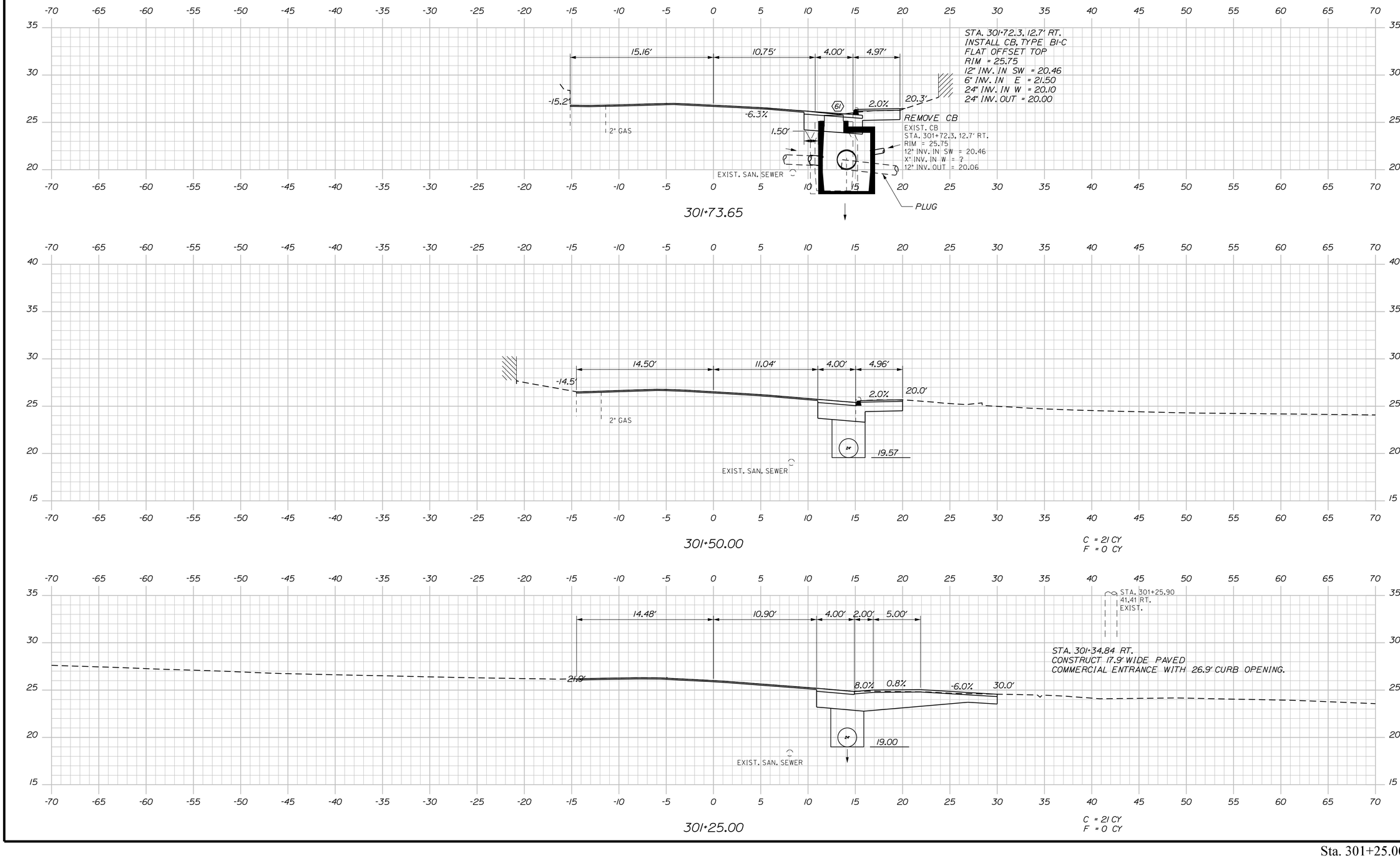
Filename: ...\115_XSECT_300+50_002.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 300+50.00 to Sta. 301+00.00

STA 301+74.65, 14.78' RT. TO STA 303+04.84, 14.40' RT.
INSTALL 130LF X 24" TYPE 'C' UD.

STA 301+74.3, 12.34' RT. TO STA 301+80.0, 7.2±
INSTALL 8LF X 12" OPT III PIPE
CONNECT TO EXISTING CROSSPIPE

STA. 301+74.16.7' RT. TO STA. 3301+85, 23' RT.
INSTALL 13 LF X 6" PVC WITH CELLAR DRAIN CONNECTION



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960	P.E. NUMBER	
1/12/18	DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
UNION STREET

CROSS SECTIONS

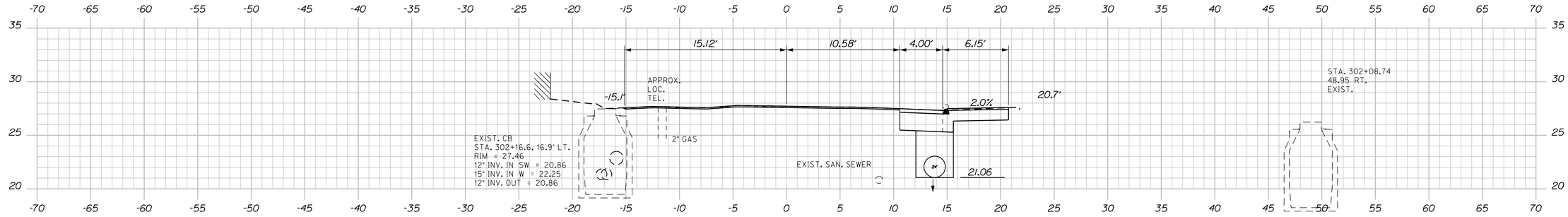
SHEET NUMBER

116

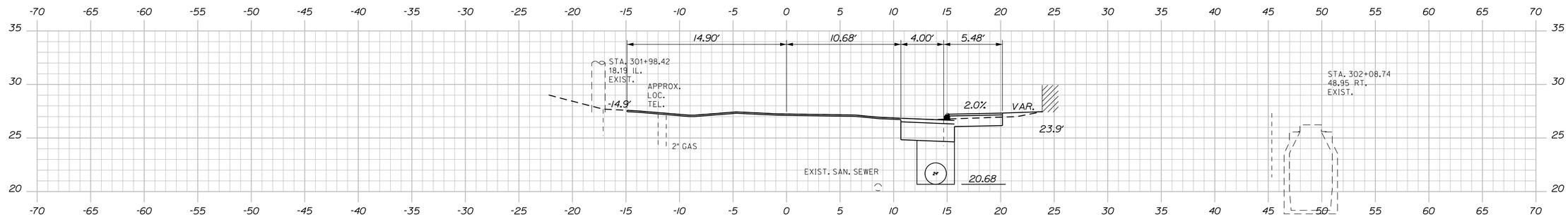
OF 172

Sta. 301+25.00 to Sta. 301+73.65

Filename: ...\116_XSECT_301+25_003.dgn Division: HIGHWAY Username: common Date:1/22/2018

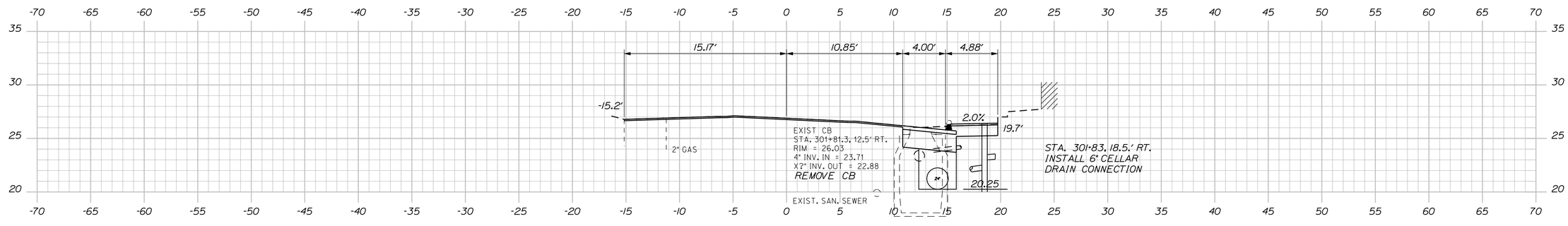


302+16.46

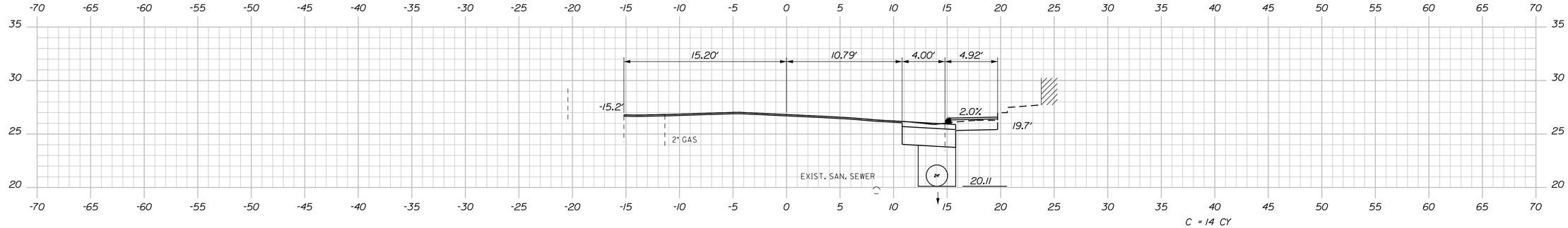


302+00.00

C = 13 CY
F = 0 CY



301+81.21



301+75.00

C = 14 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
UNION STREET

CROSS SECTIONS

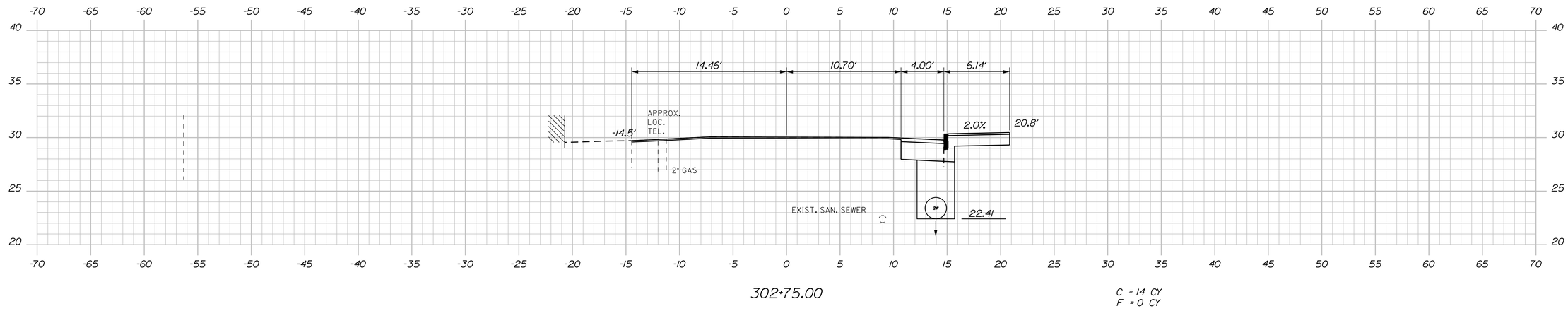
SHEET NUMBER

117

OF 172

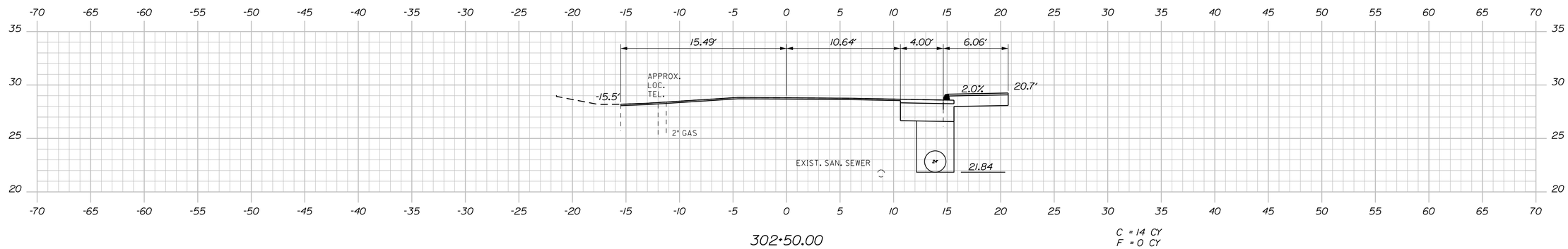
Sta. 301+75.00 to Sta. 302+16.46

Filename: ...\117_XSECT_301+75_004.dgn Division: HIGHWAY Username: common Date:1/22/2018



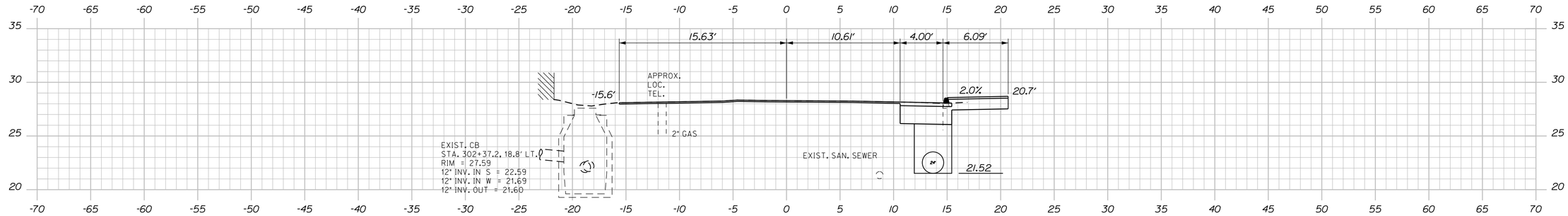
302+75.00

C = 14 CY
F = 0 CY

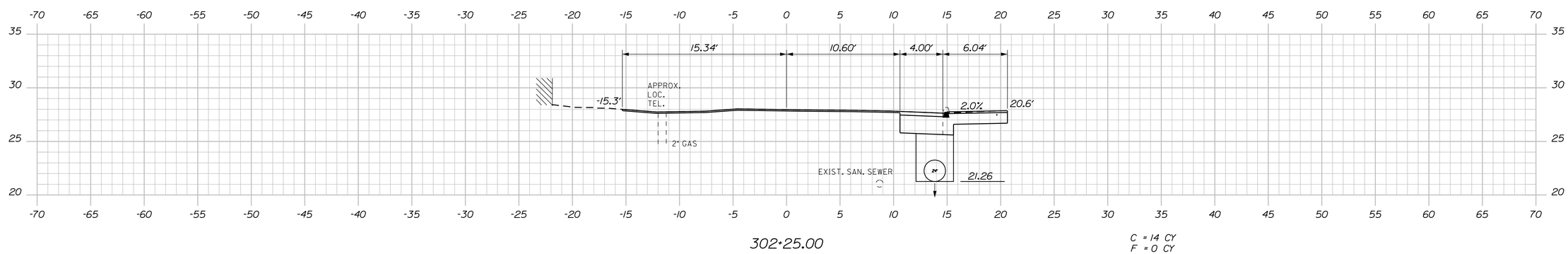


302+50.00

C = 14 CY
F = 0 CY



302+36.07



302+25.00

C = 14 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
UNION STREET

CROSS SECTIONS

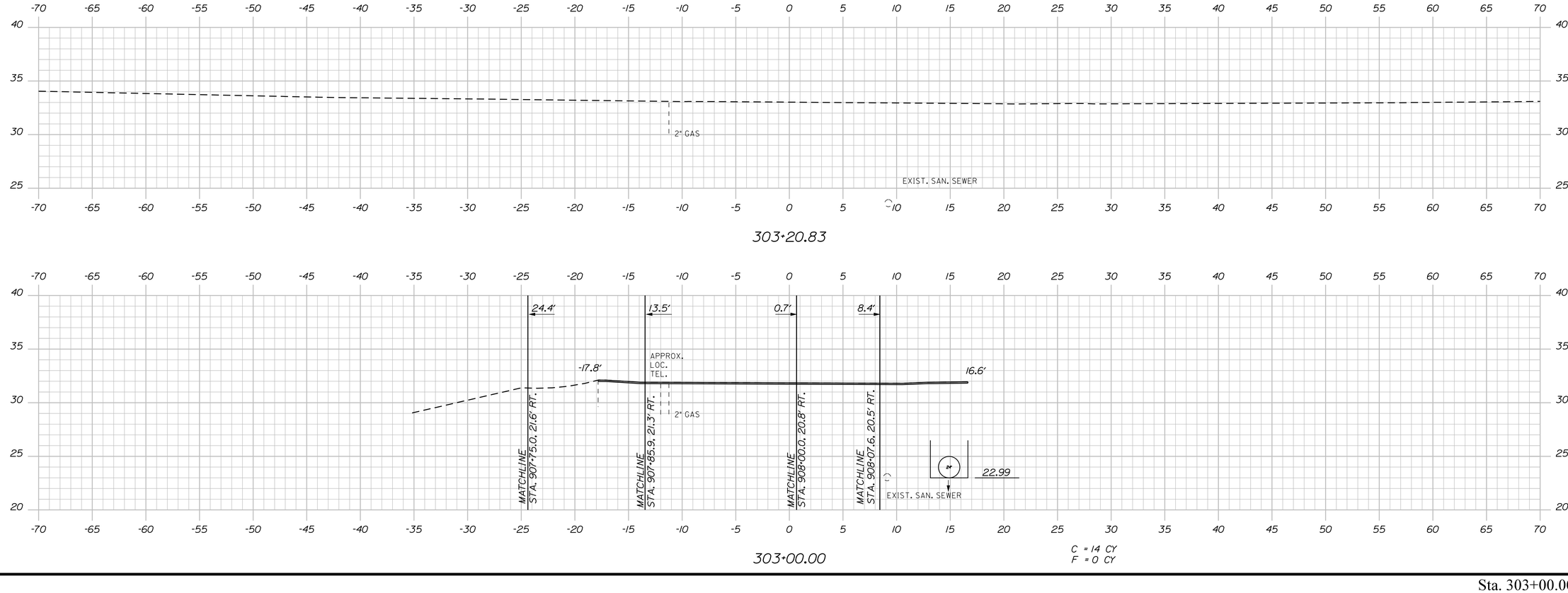
SHEET NUMBER

118

OF 172

Sta. 302+25.00 to Sta. 302+75.00

Filename: ...\118_XSECT_302+25_005.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 303+00.00 to Sta. 303+20.83

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG	ALG	1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

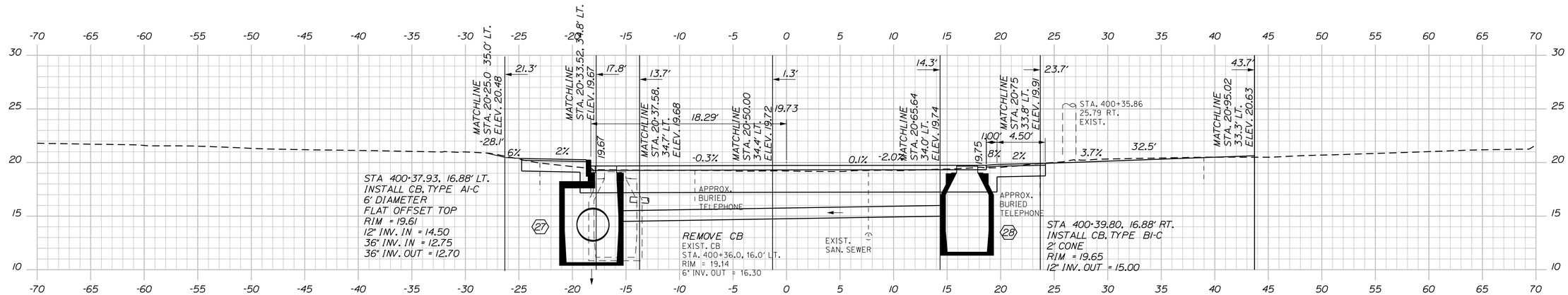
HALLOWELL
UNION STREET

CROSS SECTIONS

SHEET NUMBER
119
OF 172

Filename: ...\119_XSECT_303+00_006.dgn Division: HIGHWAY Username: common Date:1/22/2018

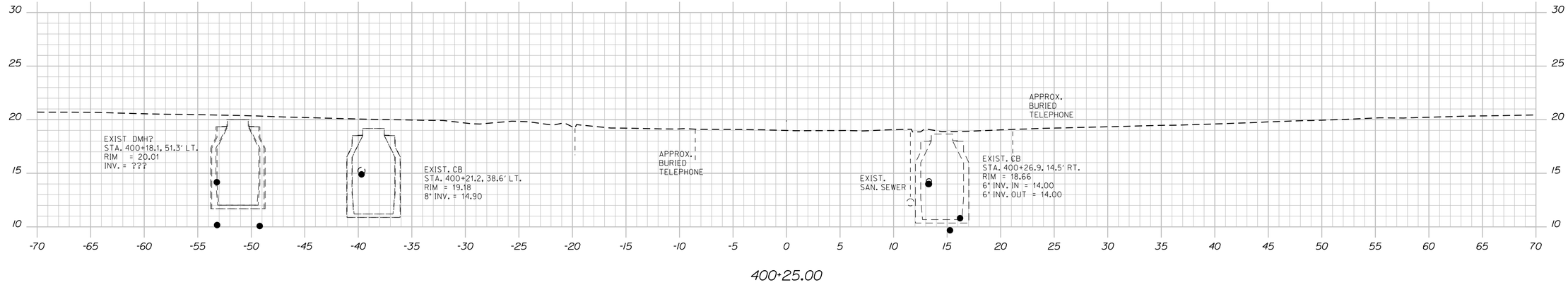
STA 400+40.9, 18.5' LT. TO STA 401+00, 17.1'± LT.
INSTALL 60 LF X 36" TYPE 'C' UD.
INTERCEPT EXISTING PIPE



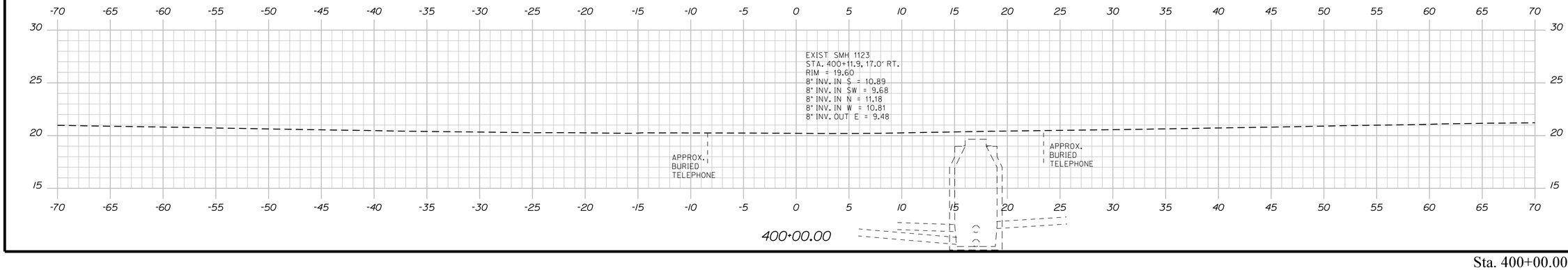
STA 400+34.9, 18.6' LT. TO STA 20+34.5, 3.0' RT.
INSTALL 39 LF X 36" RCP, CLASS III

400+34.39

STA 400+37.9, 15.79' LT. TO STA 400+39.69, 14.88' RT.
INSTALL 31 LF X 12" OPT III PIPE



400+25.00



400+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
ENGINEER
REGISTERED PROFESSIONAL

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

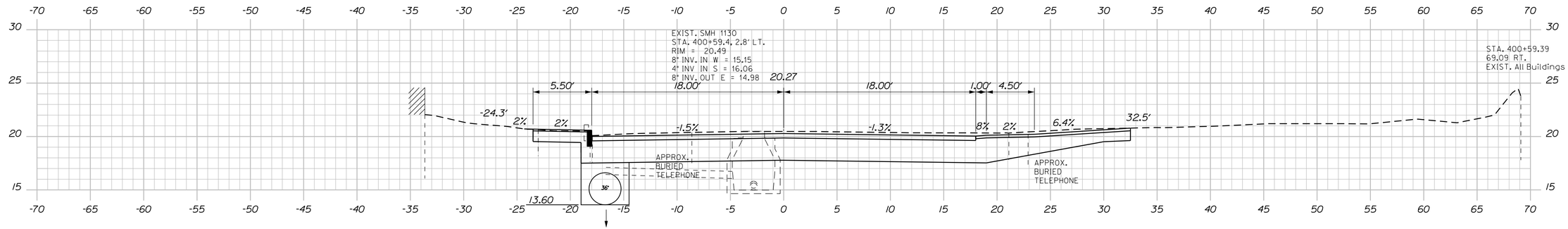
HALLOWELL
CENTRAL STREET

CROSS SECTIONS

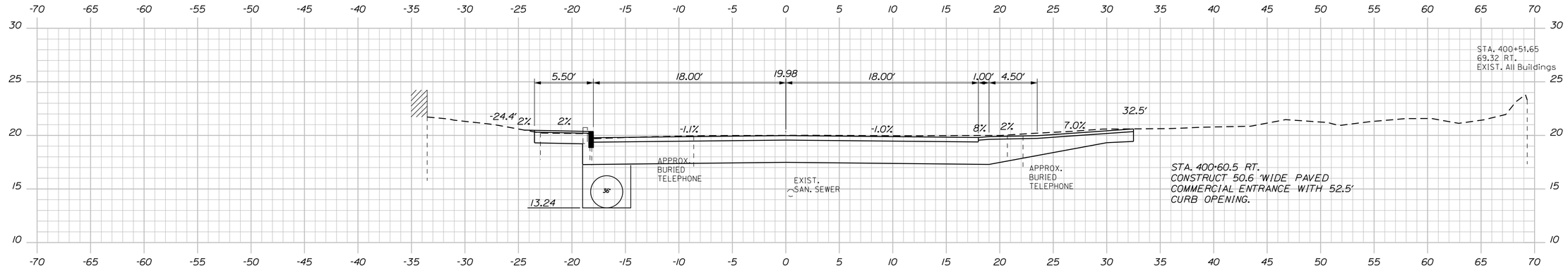
SHEET NUMBER
120
OF 172

Sta. 400+00.00 to Sta. 400+34.39

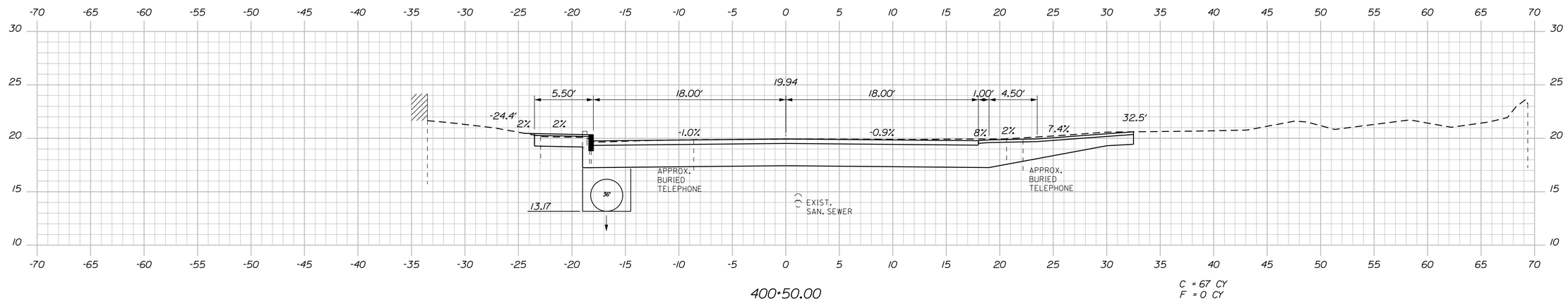
Filename: ...\120_XSECT_400+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018



400+59.39



400+51.65



400+50.00

C = 67 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALG	JLE
CHECKED-REVIEWED	ALG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE
1-18
1-18

HALLOWELL
CENTRAL STREET

CROSS SECTIONS

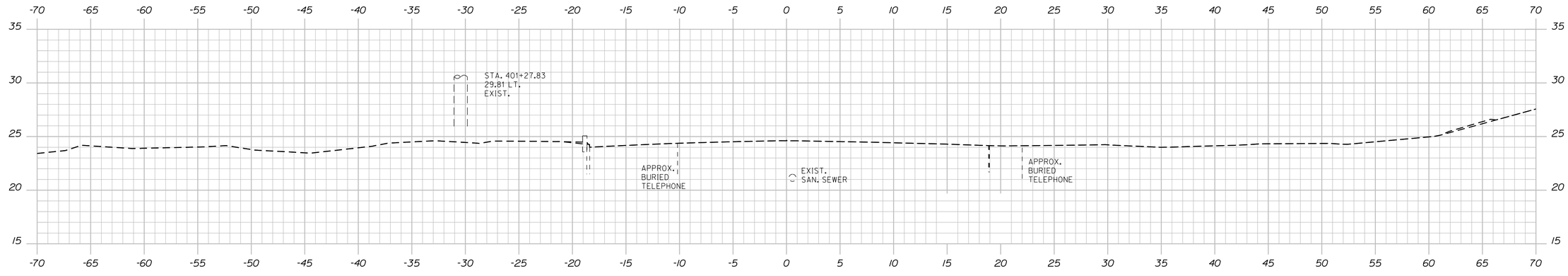
SHEET NUMBER

121

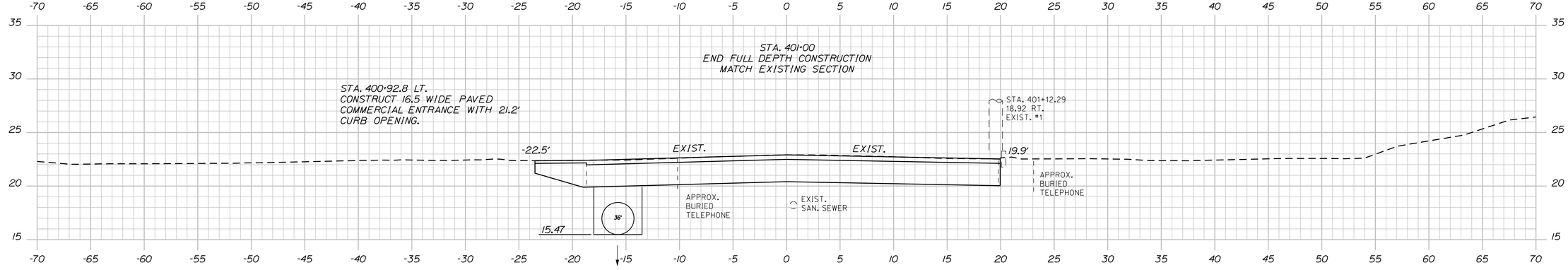
OF 172

Sta. 400+50.00 to Sta. 400+59.39

Filename: ...\121_XSECT_400+50_002.dgn Division: HIGHWAY Username: common Date:1/22/2018

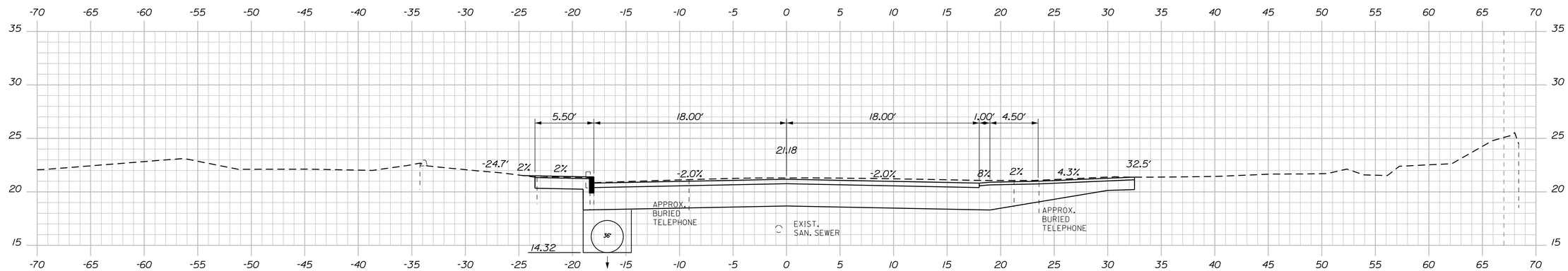


401+25.00



401+00.00

C = 118 CY
F = 0 CY



400+75.00

C = 121 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

	SIGNATURE
	7960
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

HALLOWELL
CENTRAL STREET

CROSS SECTIONS

SHEET NUMBER

122

OF 172

Sta. 400+75.00 to Sta. 401+25.00

Filename: ...\122_XSECT_400+75_003.dgn Division: HIGHWAY Username: common Date:1/22/2018

STA. 500+40
END FULL DEPTH CONSTRUCTION
BEGIN 1.5" MILL AND HMA OVELAY
MATCH EXISTING SECTION

STA. 500+36.24
62.38 LT.
EXIST.

STA. 500+34.81
58.16 LT.
EXIST.

STA. 500+34.81
65.96 LT.
EXIST.

STA. 500+36.03
48.39 LT.
EXIST.

STA. 500+35.02
40.98 LT.
EXIST.

STA. 500+36.02
36.39 LT.
EXIST.

STA. 500+40.00
25.18 LT.
EXIST. All Buildings

MATCHLINE
STA. 20+65.64, 40.0' RT.

11.7'

2.3'

13.3'

18.20

1.50'

11.50'

11.00'

1.50'

6%

4:1

2.0%

-1.9%

6.0%

4:1

STA. 500+29.24
18.50 LT.
EXIST.

APPROX.
BURIED
TELEPHONE

EXIST.
SAN. SEWER

8.86

MATCHLINE
STA. 20+50.00, 40.0' RT.

STA. 500+29.51
15.80 RT.
EXIST.

STA. 500+40.00
18.75 RT.
EXIST. All Buildings

APPROX.
BURIED
TELEPHONE

STA. 500+36.21
29.78 RT.
EXIST.

STA. 500+35.17
32.67 RT.
EXIST.

STA. 500+35.35
39.27 RT.
EXIST.

STA. 500+36.38
48.50 RT.
EXIST.

STA. 500+37.07
51.94 RT.
EXIST.

STA. 500+29.42
57.09 RT.
EXIST.

500+40.00

STA 500+33.8, 7.0' RT. TO STA STA 501+01.1, 7.0' RT.
INSTALL 72 LF X 36" OPT III PIPE
(BY OTHERS)

STA. 20+56.30, 29.0 RT.
(500+29.0, 7.0' RT.)
INSTALL CB, TYPE BI
6' DIA. EXTRA DEPTH
OFFSET FLAT TOP/SOLID COVER
RIM = 18.91
TEMP 18" INV. IN N = 13.00??
36" INV. IN S = 9.35
36" INV. OUT E = 9.25
(BY OTHERS)
MATCH TO EXISTING 36" INLET
PLUG TEMP 18" INLET

STA. 500+29.24
18.18 RT.
STA. 500+25.63
18.27 LT.
EXIST. UNDER CAR

PLUG

EXIST.
SAN. SEWER

500+25.00

EXIST.
SAN. SEWER

500+00.00

Sta. 500+00.00 to Sta. 500+40.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

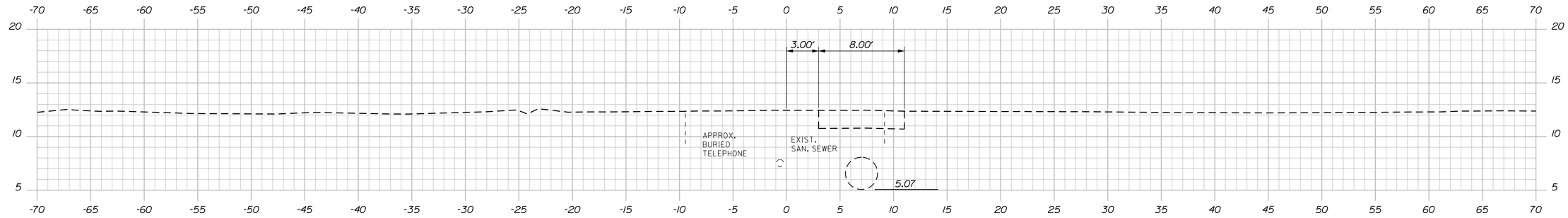
PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WHARF STRET

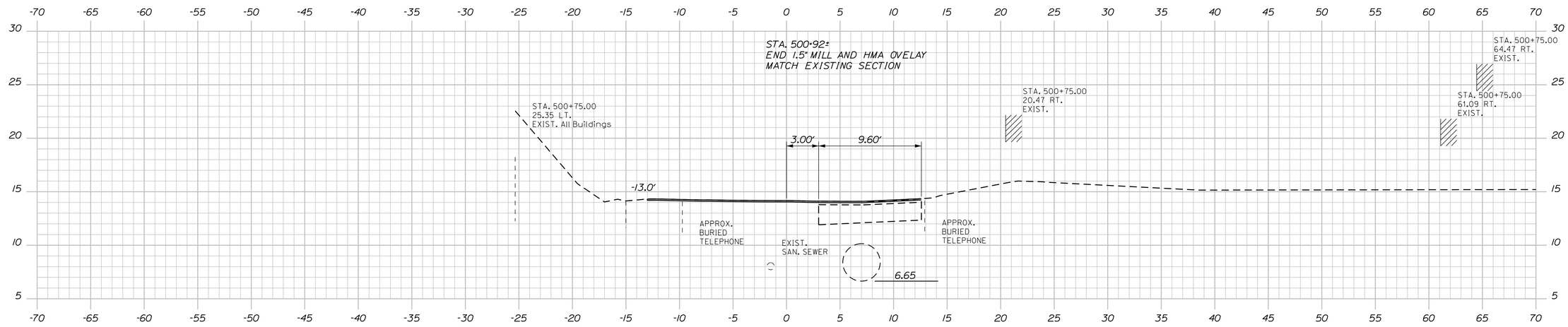
CROSS SECTIONS

SHEET NUMBER
123
OF 172

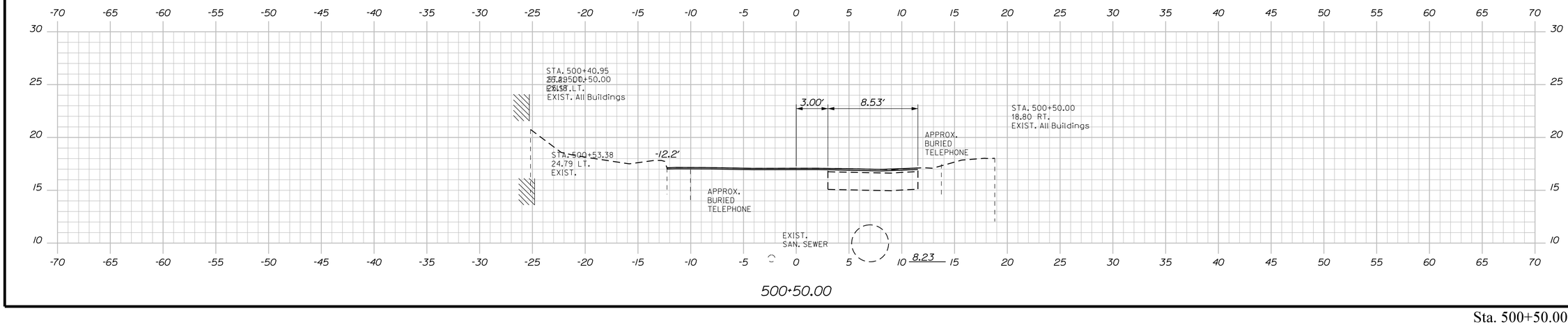
Filename: ...\123_XSECT_500+00_001.dgn Username: common Division: HIGHWAY Date:1/22/2018



501+00.00



500+75.00



500+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No. 7960 · LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WHARF STREET

CROSS SECTIONS

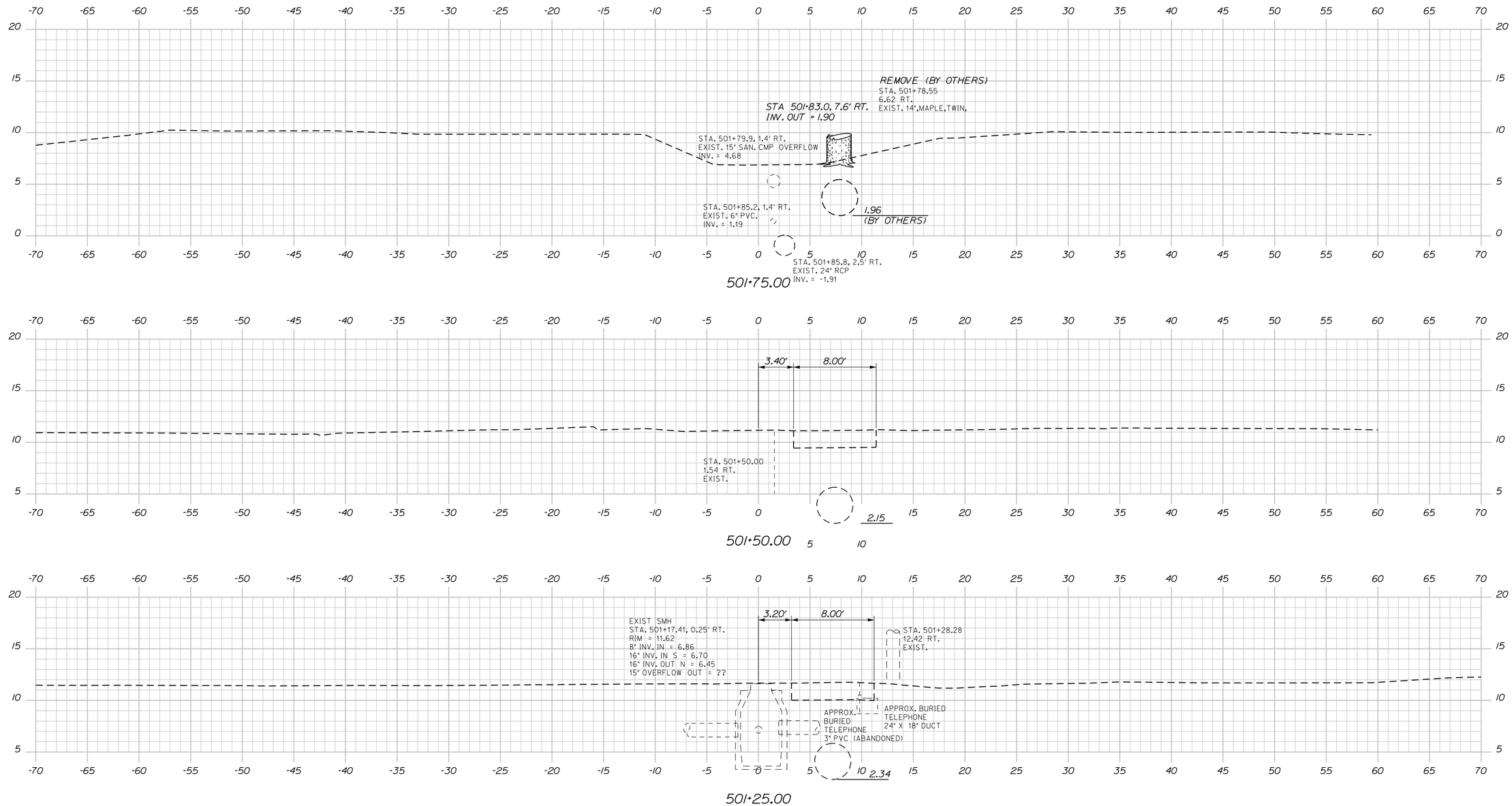
SHEET NUMBER

124

OF 172

Sta. 500+50.00 to Sta. 501+00.00

Filename: ...\124_XSECT_500+50_002.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WHARF STREET

CROSS SECTIONS

SHEET NUMBER

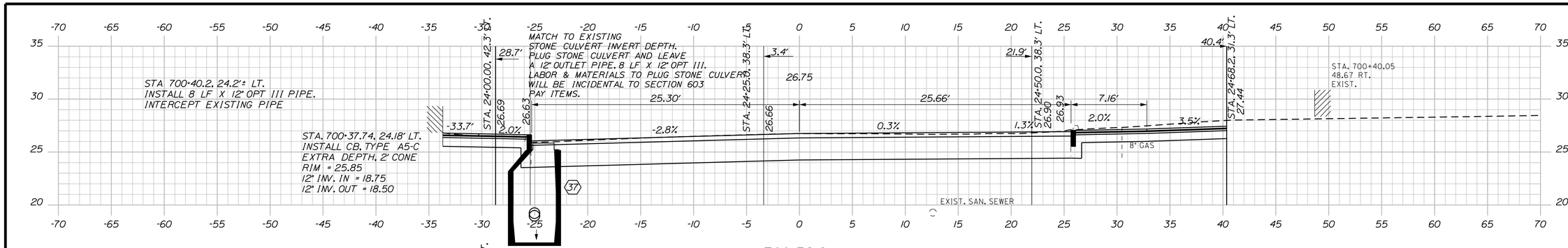
125

OF 172

Sta. 501+10.00 to Sta. 501+75.00

Filename: ...\125_XSECT_501+10_003.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\126_XSECT_700+00_001.dgn Username: common Division: HIGHWAY Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L EASON No 7960 LICENSED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	JLE	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
WINTHROP STREET

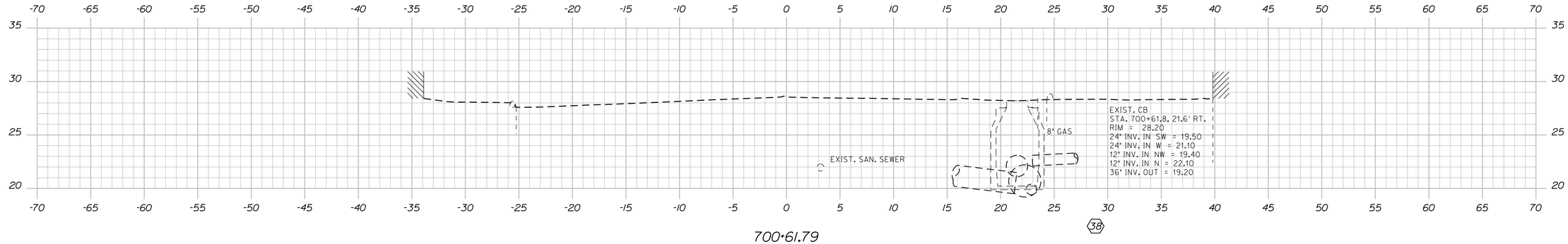
CROSS SECTIONS

SHEET NUMBER

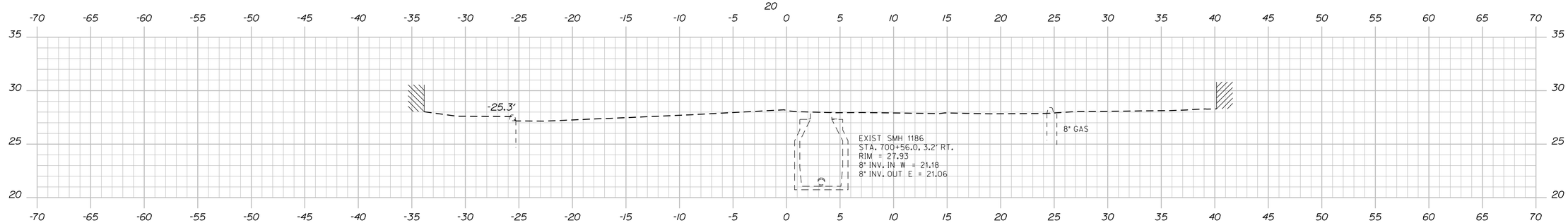
126

OF 172

Sta. 700+00.00 to Sta. 700+38.24

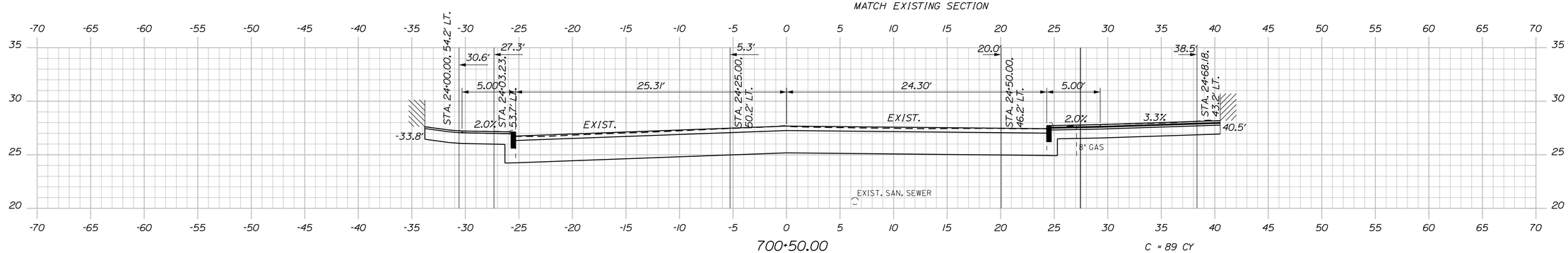


700+61.79



700+56.00

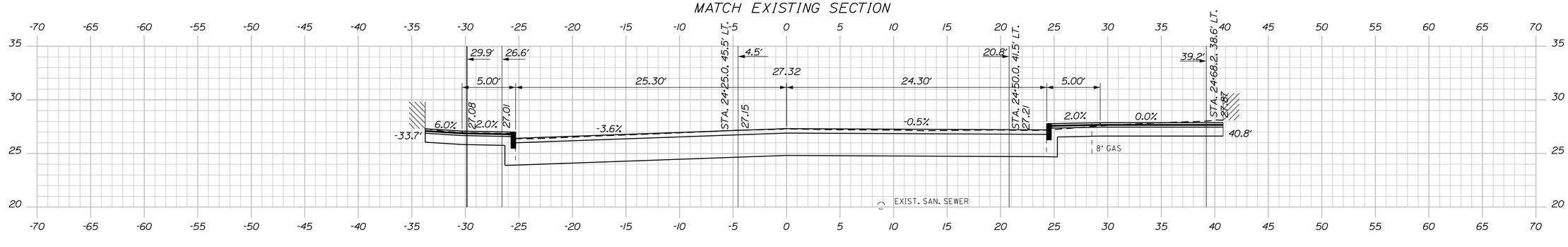
STA. 700+50.0
END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION



700+50.00

END FULL DEPTH RECONSTRUCTION
MATCH EXISTING SECTION

C = 89 CY
F = 0 CY



700+45.37

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
WINTHROP STREET

CROSS SECTIONS

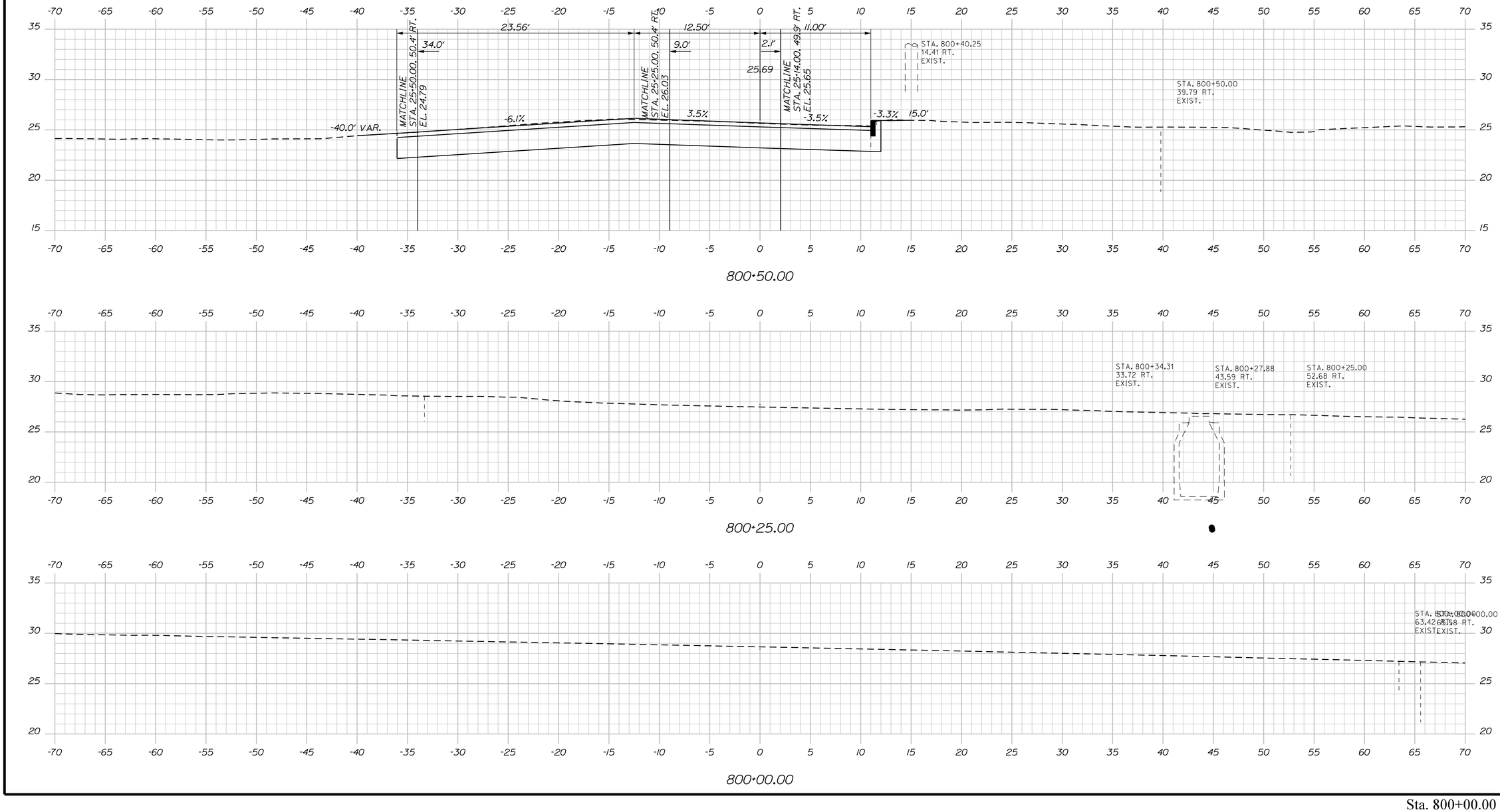
SHEET NUMBER

127

OF 172

Sta. 700+45.37 to Sta. 700+61.79

Filename: ...\127_XSECT_700+45_002.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 800+00.00 to Sta. 800+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

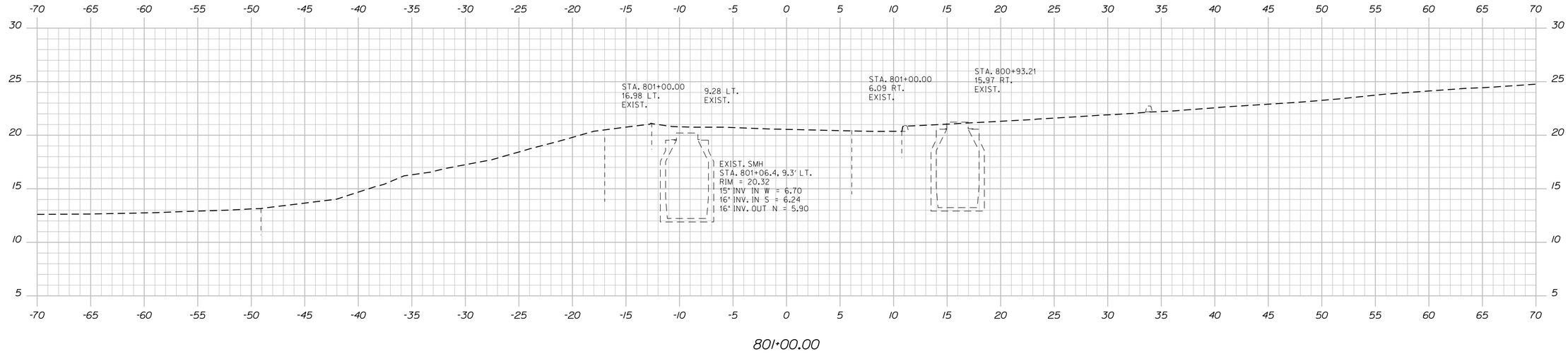
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
FRONT STREET

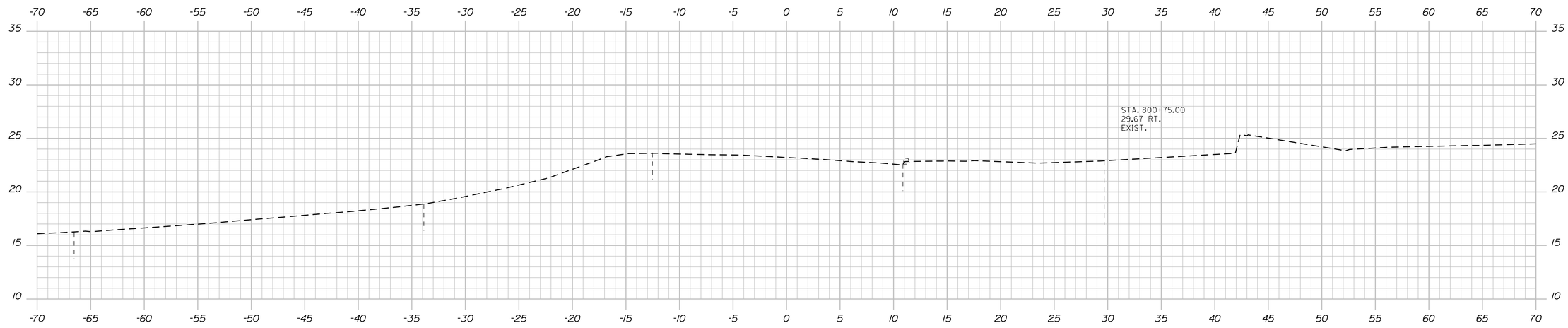
CROSS SECTIONS

SHEET NUMBER
128
OF 172

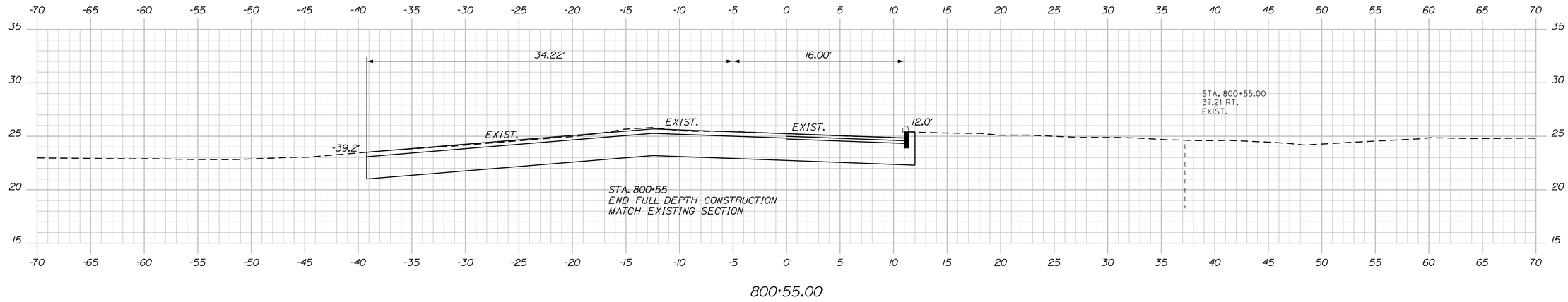
Filename: ...\128_XSECT_800+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018



801+00.00



800+75.00



800+55.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	
		P.E. NUMBER	
		1/12/18	
		DATE	

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALC	JLE	1-18
CHECKED-REVIEWED	ALC		1-18
DESIGN2-DETAILED2	ALC		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
FRONT STREET

CROSS SECTIONS

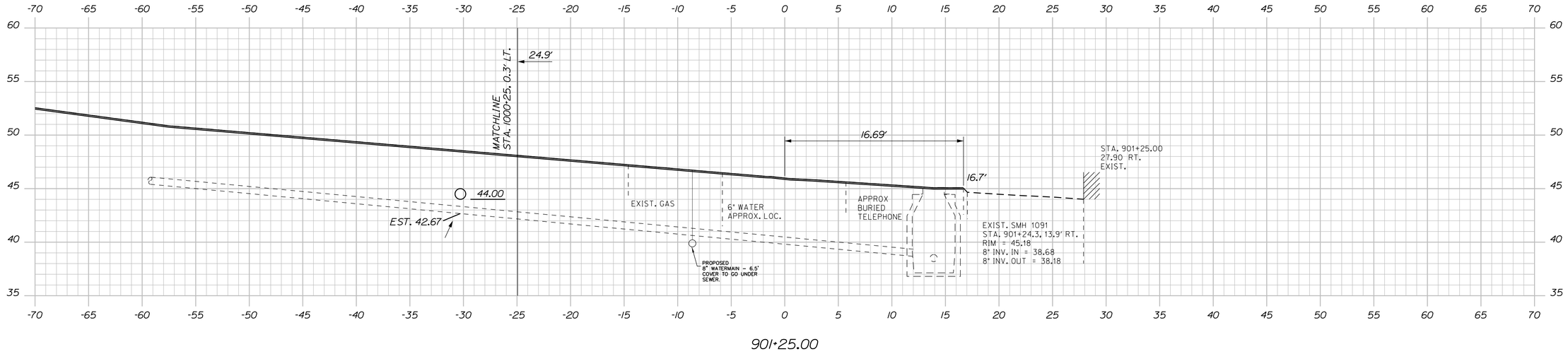
SHEET NUMBER

129

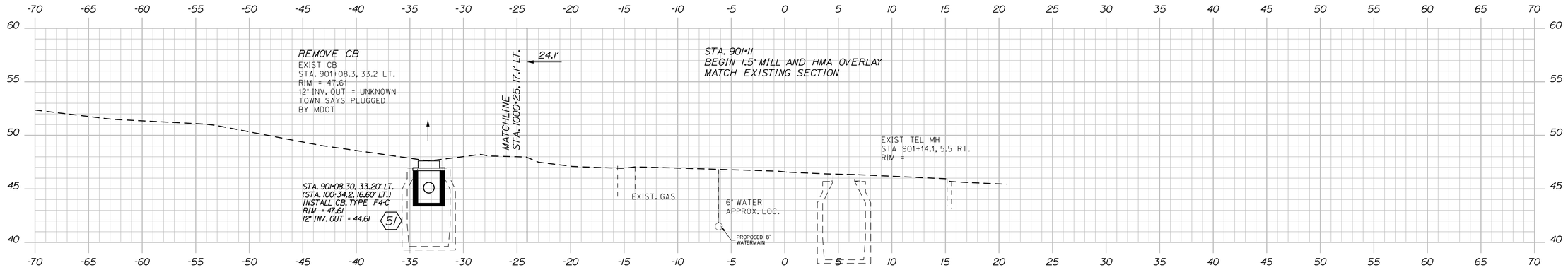
OF 172

Filename: ...\129_XSECT_800+55_002.dgn Division: HIGHWAY Username: common Date:1/22/2018

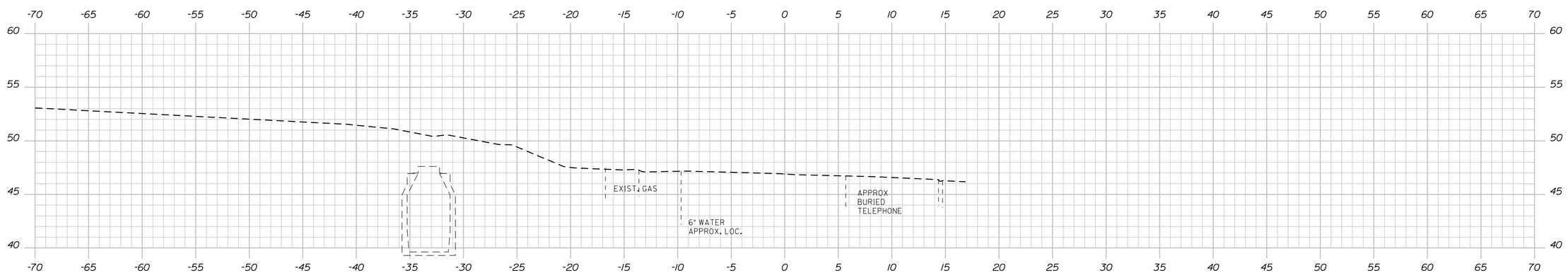
Sta. 800+55.00 to Sta. 801+00.00



901+25.00



901+08.34



901+00.00

Sta. 901+00.00 to Sta. 901+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
ERNIE MARTIN	JLE	
PROJ. MANAGER		1-18
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
SECOND STREET

CROSS SECTIONS

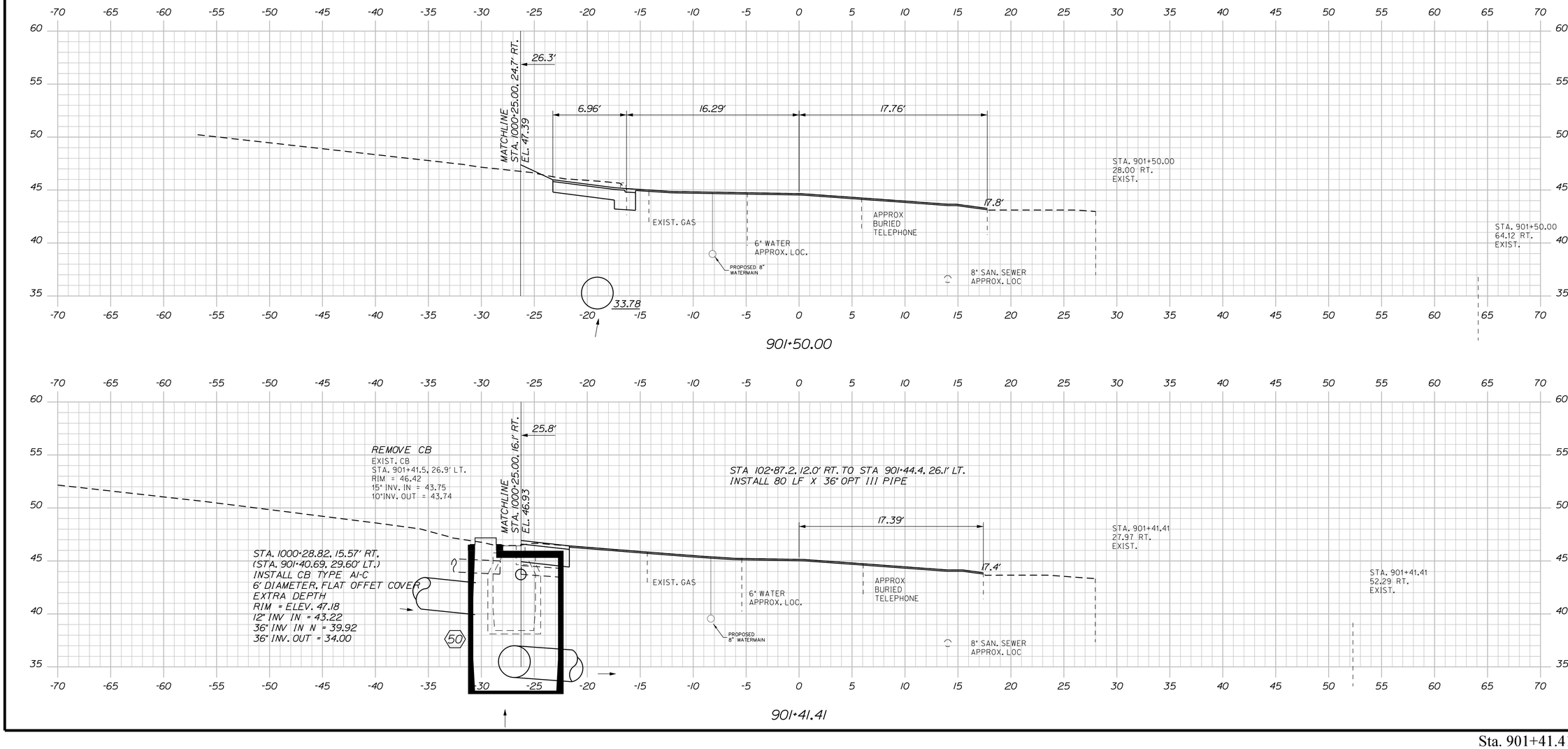
SHEET NUMBER

130

OF 172

Filename: ...\130_XSECT_901+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\131_XSECT_901+41_002.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		1-18
REVISIONS 2		1-18
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
SECOND STREET

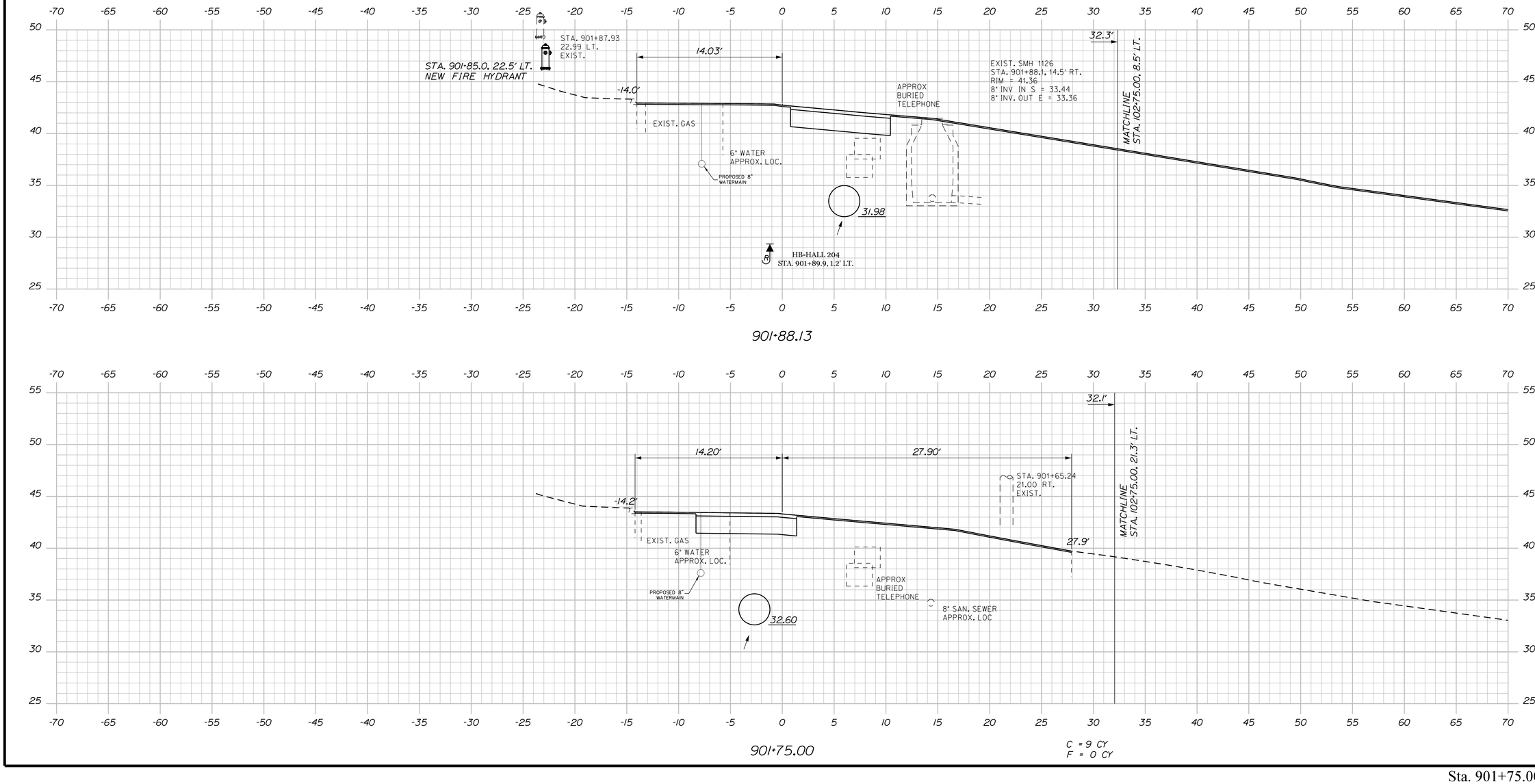
CROSS SECTIONS

SHEET NUMBER

131

OF 172

Sta. 901+41.41 to Sta. 901+50.00



Sta. 901+75.00 to Sta. 901+88.13

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

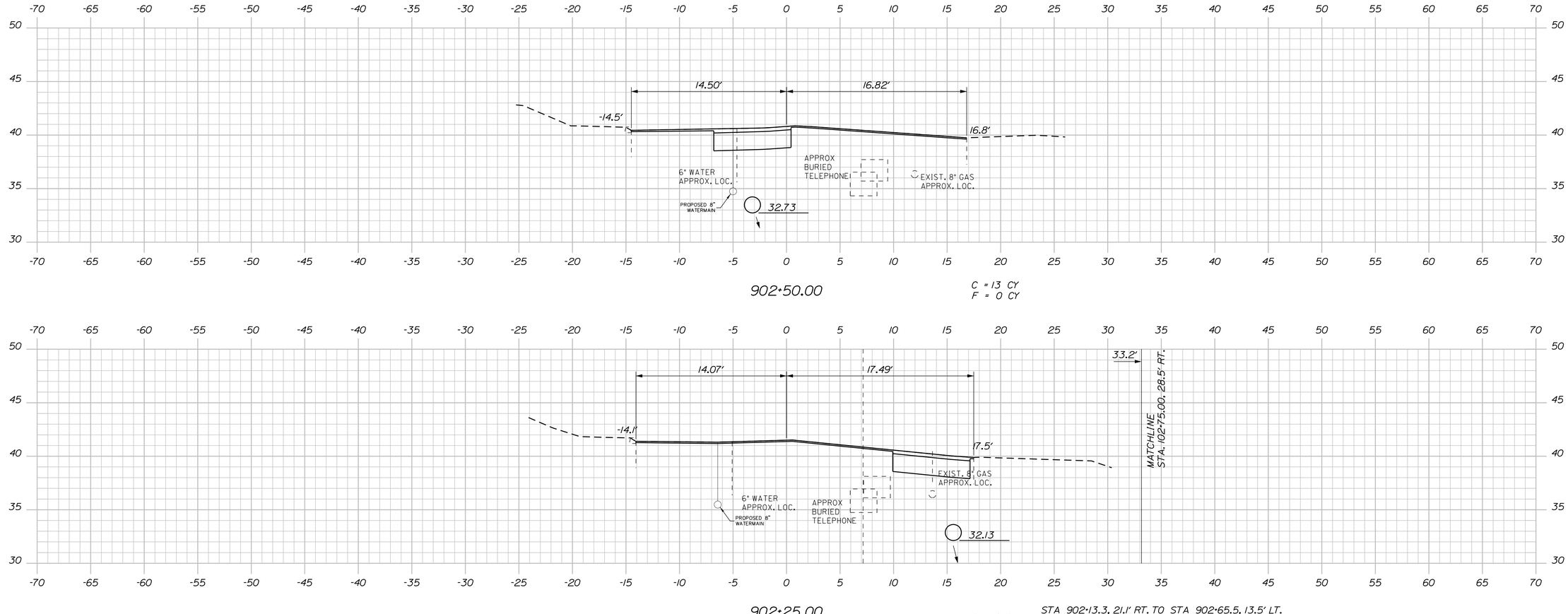
		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
SECOND STREET

CROSS SECTIONS

SHEET NUMBER
132
OF 172

Filename: ...\132_XSECT_901+75_003.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		1-18
REVISIONS 2		1-18
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
SECOND STREET

CROSS SECTIONS

SHEET NUMBER

133

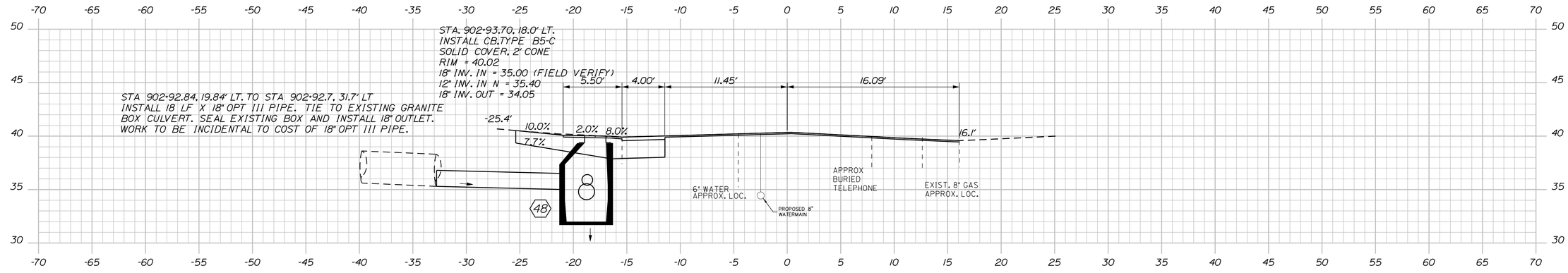
OF 172

Sta. 902+00.00 to Sta. 902+50.00

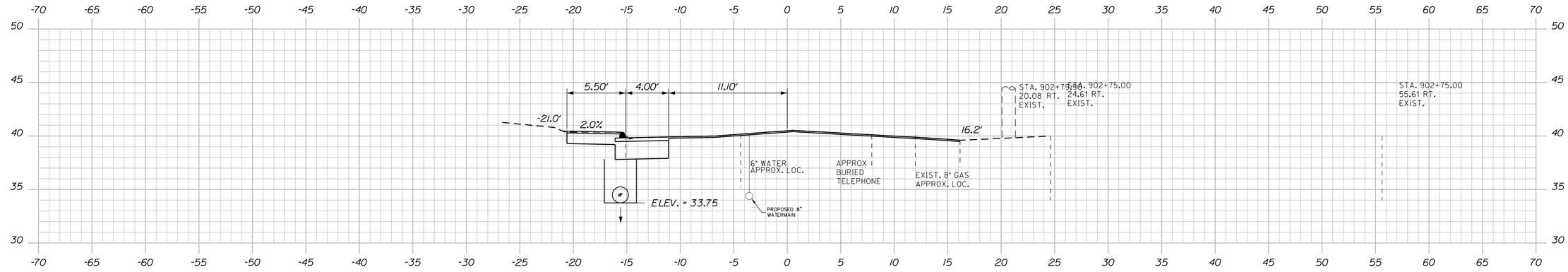
Filename: ...\133_XSECT_902+00_004.dgn Division: HIGHWAY Username: common Date:1/22/2018

STA. 902+95.70, 18.83' LT. TO STA. 903+66.10, 15.78' LT.
INSTALL 72LF X 12" TYPE 'C' UD

STA. 902+97.4 LT.
CONSTRUCT 5.5' PAVED APRON, 28.4' WIDE
AND GRAVEL COMMERCIAL DRIVE WITH 32.2'
CURB OPENING.



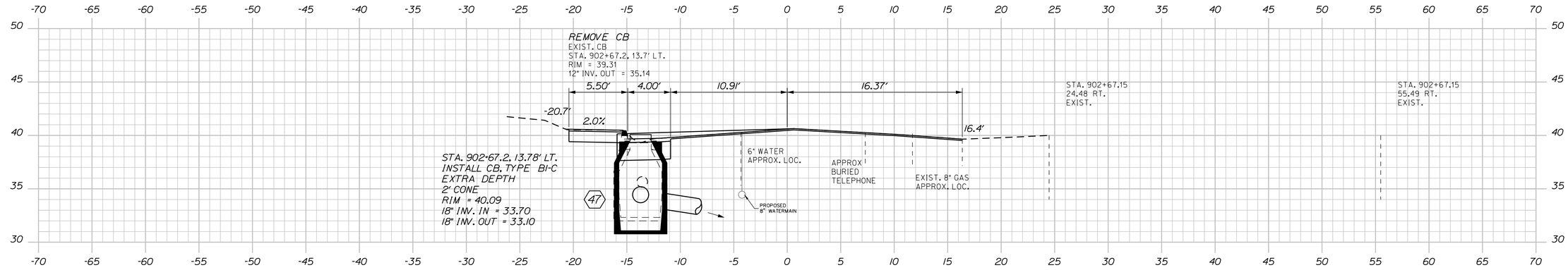
902+93.69



STA. 902+69.2, 13.78' LT. TO STA. 902+91.70, 18.83' LT.
INSTALL 22LF X 18" TYPE 'C' UD.

902+75.00

C = 14 CY
F = 0 CY



902+67.15

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
SECOND STREET

CROSS SECTIONS

SHEET NUMBER
134
OF 172

Sta. 902+67.15 to Sta. 902+93.69

Filename: ...\134_XSECT_902+67_005.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\135_XSECT_903+00_006.dgn
Division: HIGHWAY
Username: common
Date:1/22/2018

-70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
50
45
40
35
30
5.50'
4.00'
11.89'
16.26'
-21.4'
2.0%
16.3'
ELEV. = 35.61
6" WATER APPROX. LOC.
PROPOSED 8" WATERMAIN
APPROX BURIED TELEPHONE
EXIST. 8" GAS APPROX. LOC.
8" PVC. SAN. APPROX. LOC.
STA. 903+26.59 26.45 RT. EXIST.
STA. 903+25.00 58.51 RT. EXIST.

903+25.00

C = 16 CY
F = 0 CY

-70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
50
45
40
35
30
5.50'
4.00'
11.78'
16.21'
-21.3'
2.0%
16.2'
ELEV. = 35.54
6" WATER APPROX. LOC.
PROPOSED 8" WATERMAIN
APPROX BURIED TELEPHONE
EXIST. 8" GAS APPROX. LOC.
STA. 903+26.59 26.45 RT. EXIST.
STA. 903+14.62 26.20 RT. EXIST.
STA. 903+14.62 58.21 RT. EXIST.

EXIST. SMH 1107
STA. 903+14.6, 12.5' LT.
RIM = 39.56
6" INV. IN S = 33.89
4" INV. IN NW = 34.14
8" INV. OUT N = 29.60

903+14.62

-70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
50
45
40
35
30
5.50'
4.00'
11.55'
16.13'
10.0%
2.0%
8.0%
7.7%
16.1'
ELEV. = 35.44
6" WATER APPROX. LOC.
PROPOSED 8" WATERMAIN
APPROX BURIED TELEPHONE
EXIST. 8" GAS APPROX. LOC.

903+00.00

C = 19 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

HIGHWAY PLANS

WIN
18622.00

JAMES L EASON No. 7960

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

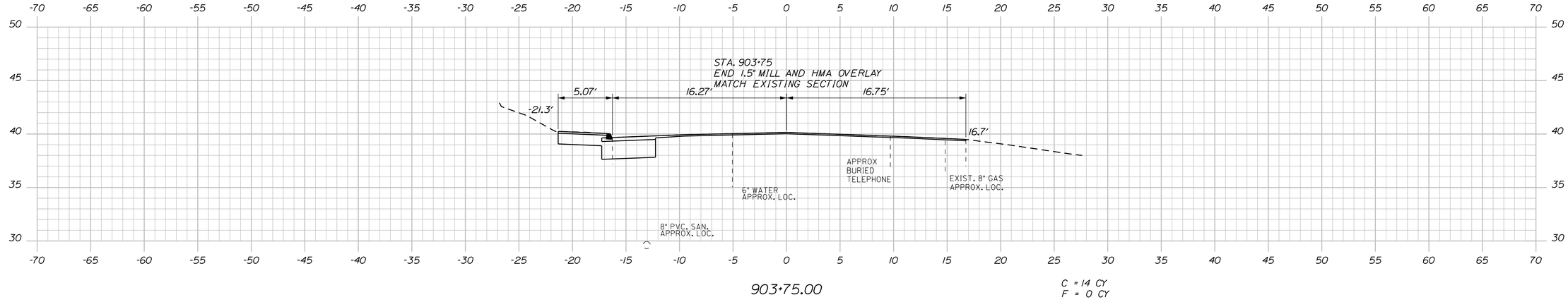
HALLOWELL
SECOND STREET

CROSS SECTIONS

SHEET NUMBER
135
OF 172

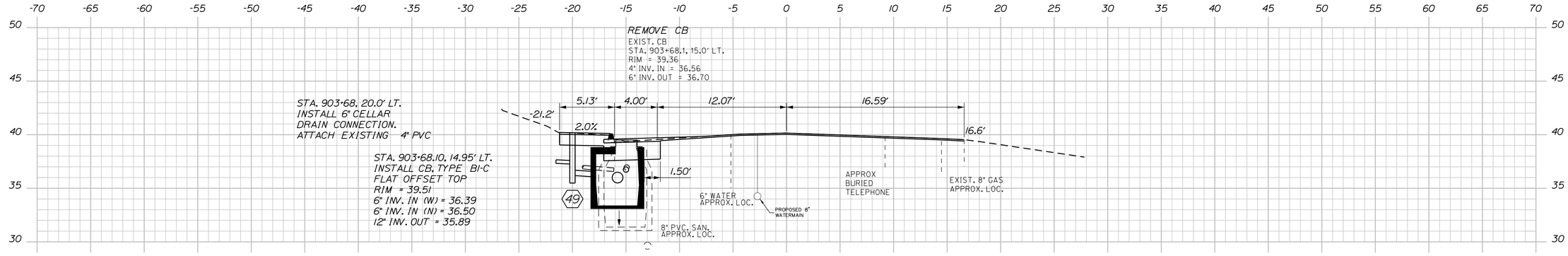
Sta. 903+00.00 to Sta. 903+25.00

Filename: ...\136_XSECT_903+50_007.dgn Division: HIGHWAY Username: common Date:1/22/2018

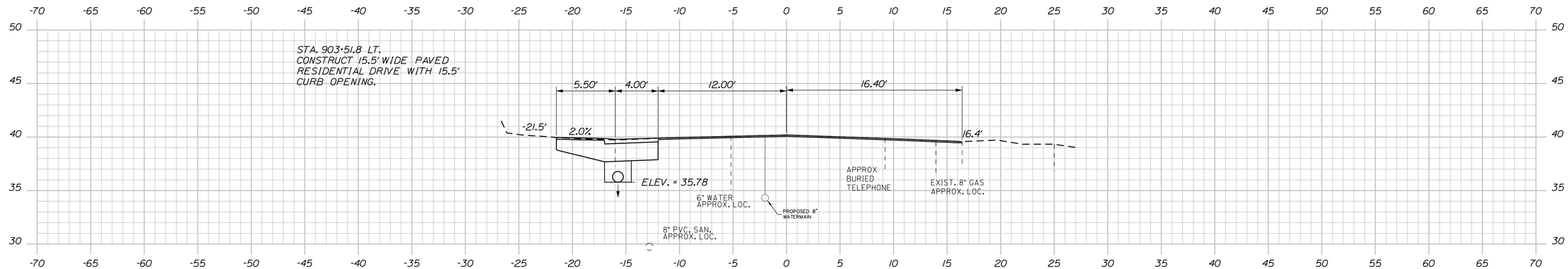


903+75.00

C = 14 CY
F = 0 CY



903+68.10



903+50.00

C = 15 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE

7960 P.E. NUMBER

1/12/18 DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
SECOND STREET

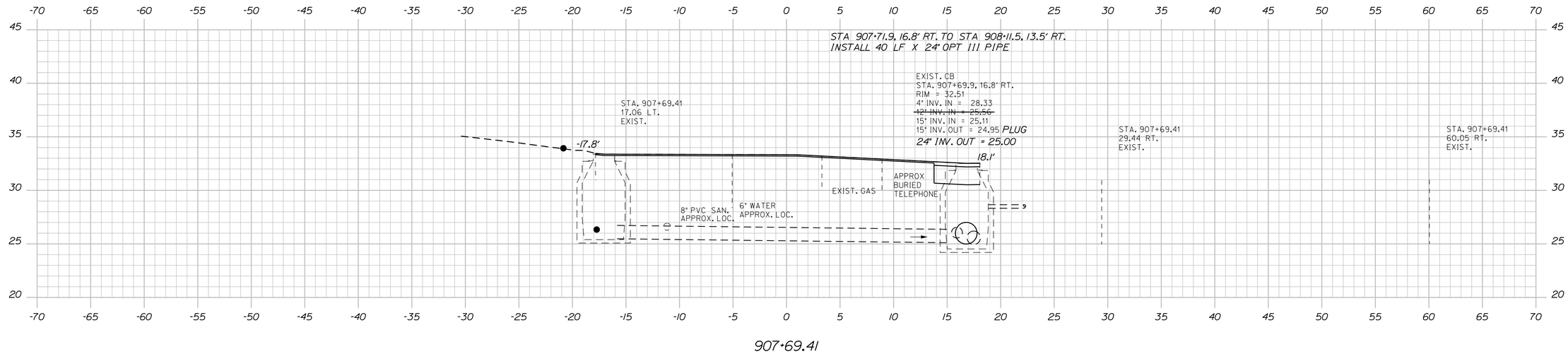
CROSS SECTIONS

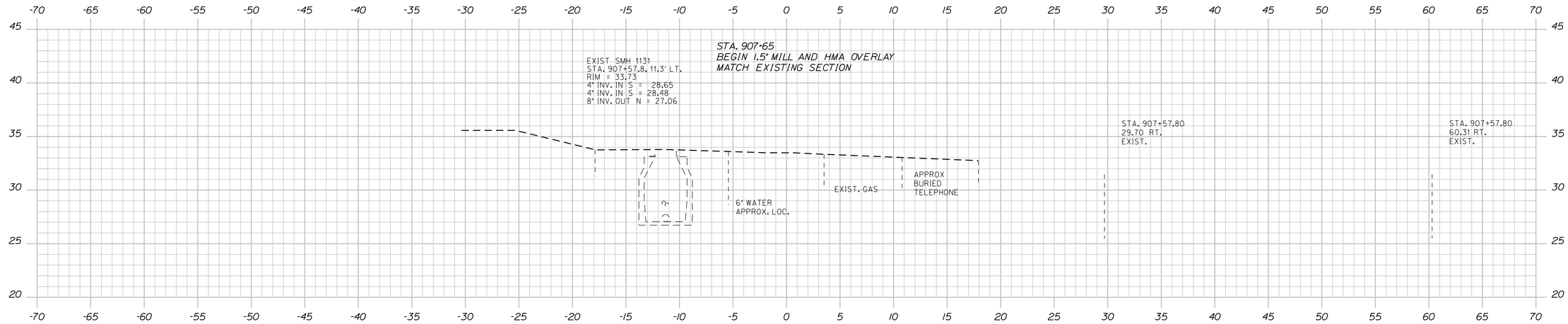
SHEET NUMBER

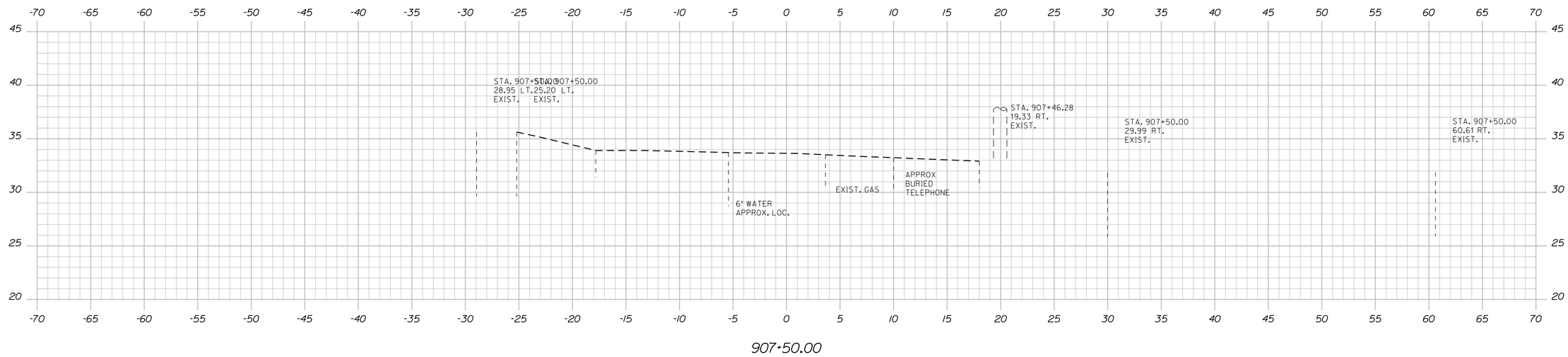
136

OF 172

Sta. 903+50.00 to Sta. 903+75.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

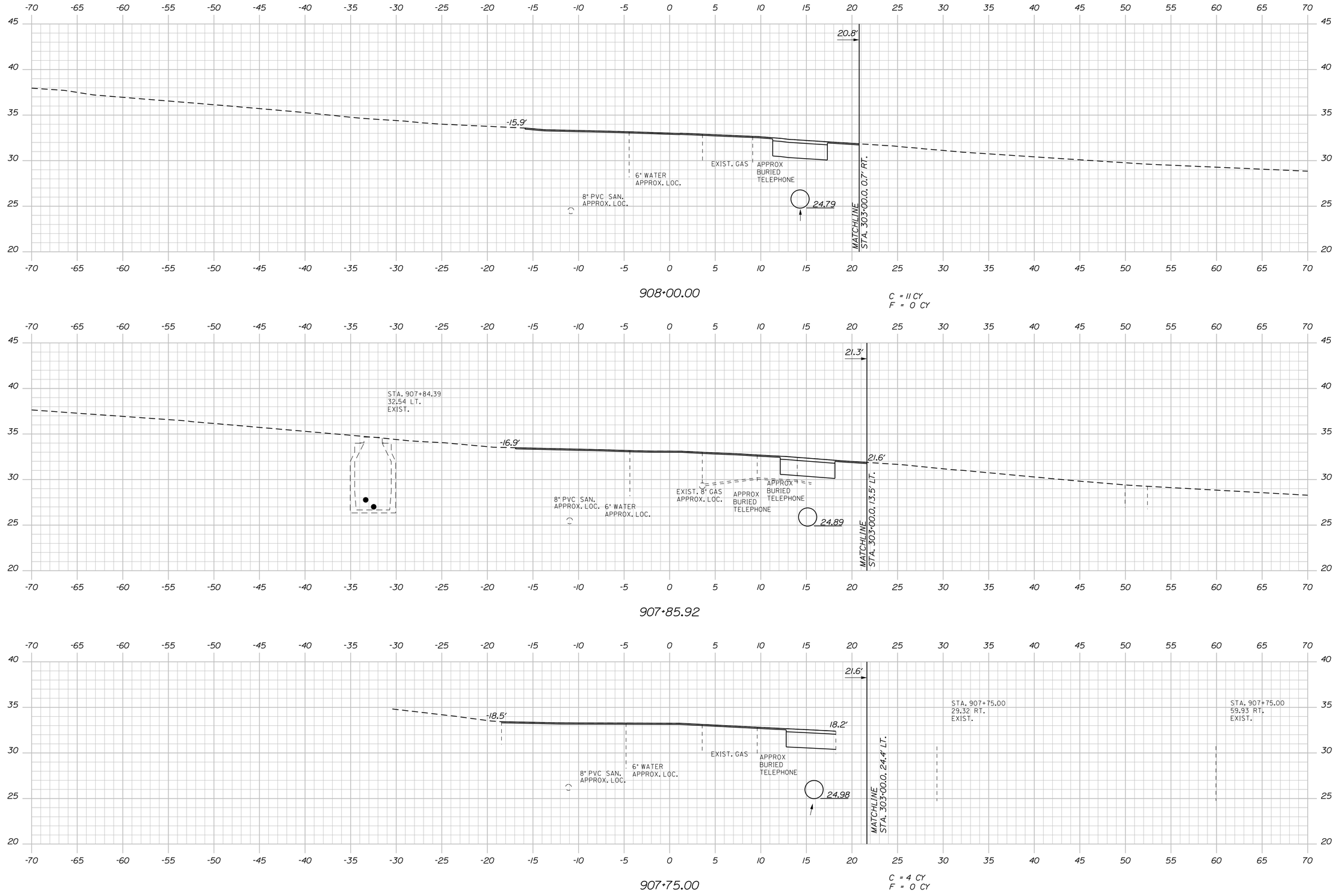
HALLOWELL
SECOND STREET

CROSS SECTIONS

SHEET NUMBER
137
OF 172

Filename: ...\137_XSECT_907+50_008.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 907+50.00 to Sta. 907+69.41



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE JAMES L EASON No. 7960 REGISTERED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
SECOND STREET

CROSS SECTIONS

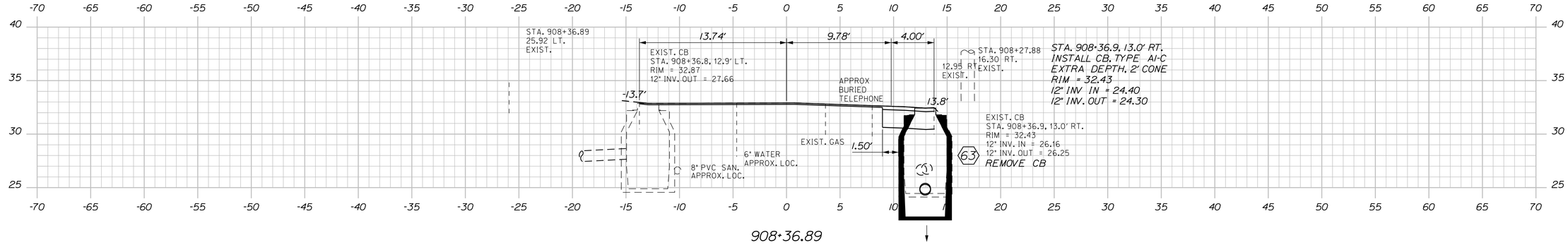
SHEET NUMBER
138
OF 172

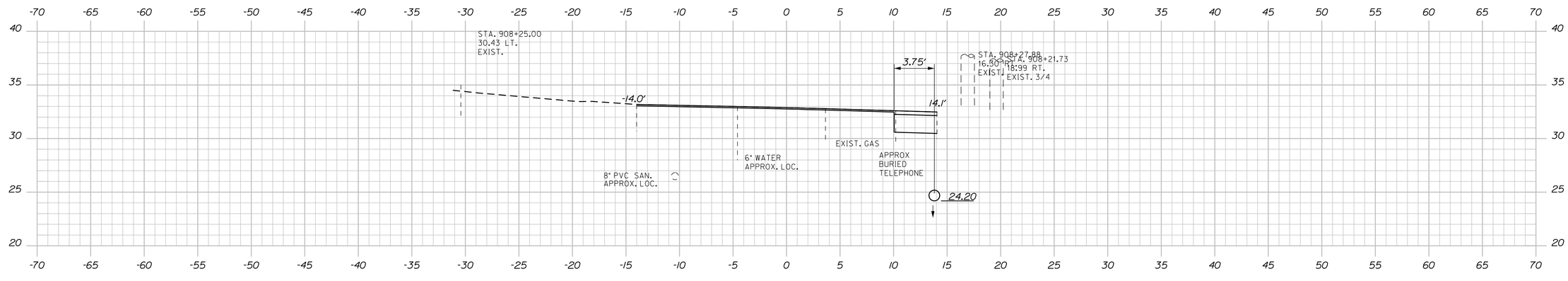
Sta. 907+75.00 to Sta. 908+00.00

Filename: ...\138_XSECT_907+75_009.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\139_XSECT_908+07_010.dgn Division: HIGHWAY Username: common Date:1/22/2018

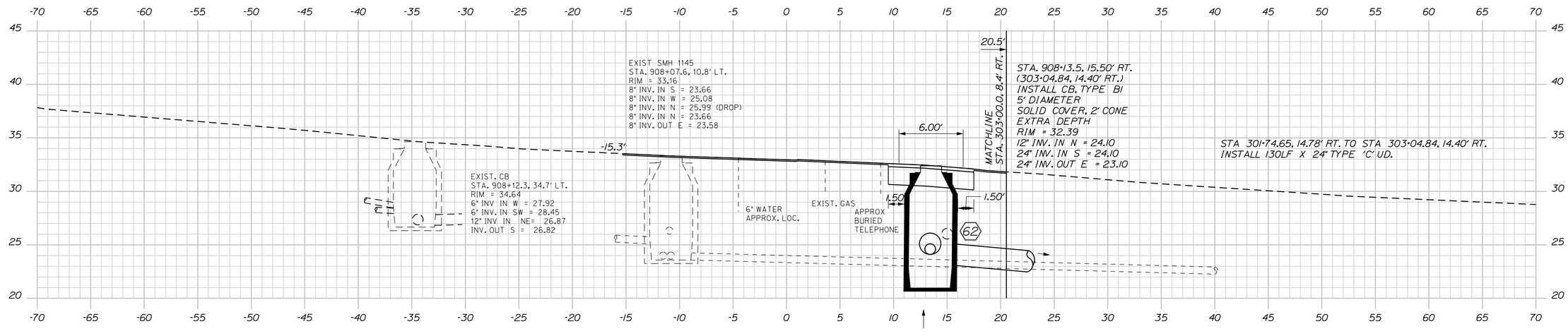
STA. 908+38.9, 13.0' RT. TO STA. 909+11.50, 17.03' RT.
INSTALL 74 LF X 12" TYPE 'C' UD.





STA. 908+15.50, 13.50' RT. TO STA. 908+34.9, 13.0' RT.
INSTALL 20 LF X 12" OPT III PIPE

C = 12 CY
F = 0 CY



Sta. 908+07.56 to Sta. 908+36.89

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

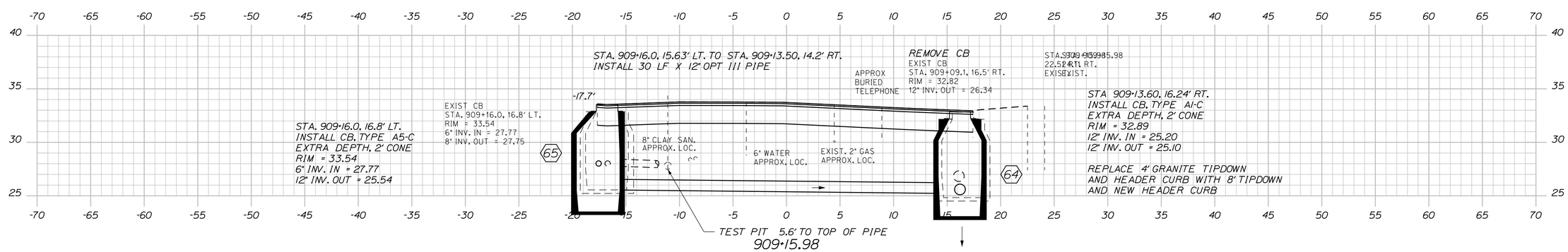
HALLOWELL
SECOND STREET

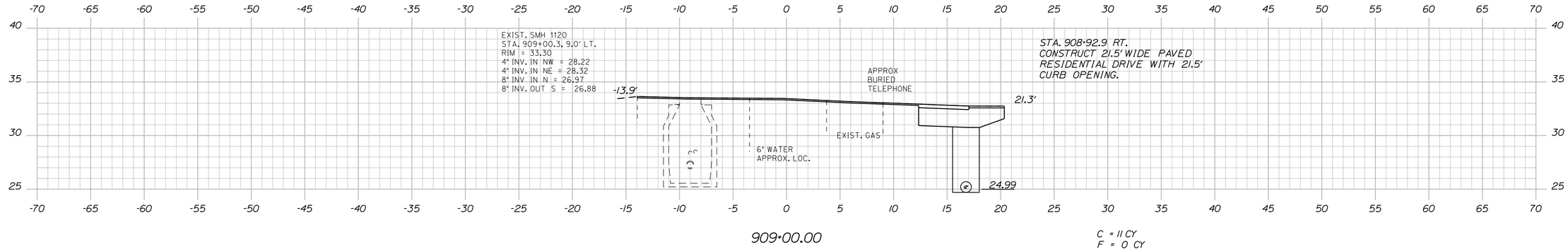
CROSS SECTIONS

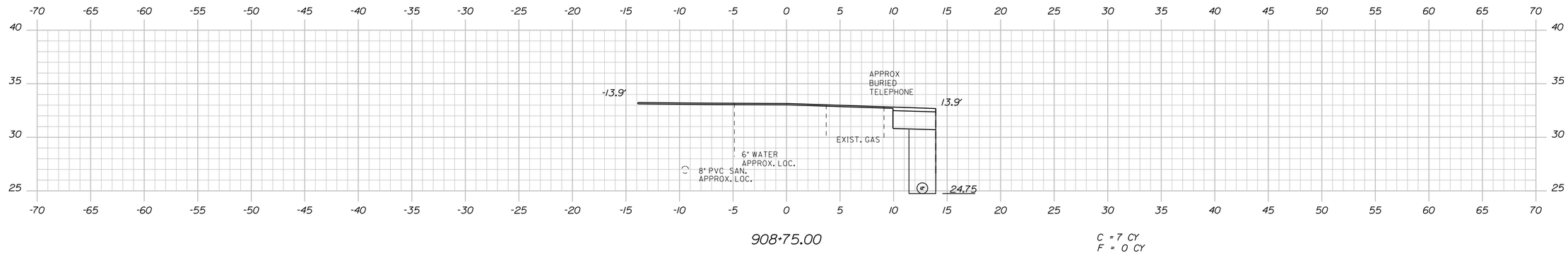
SHEET NUMBER

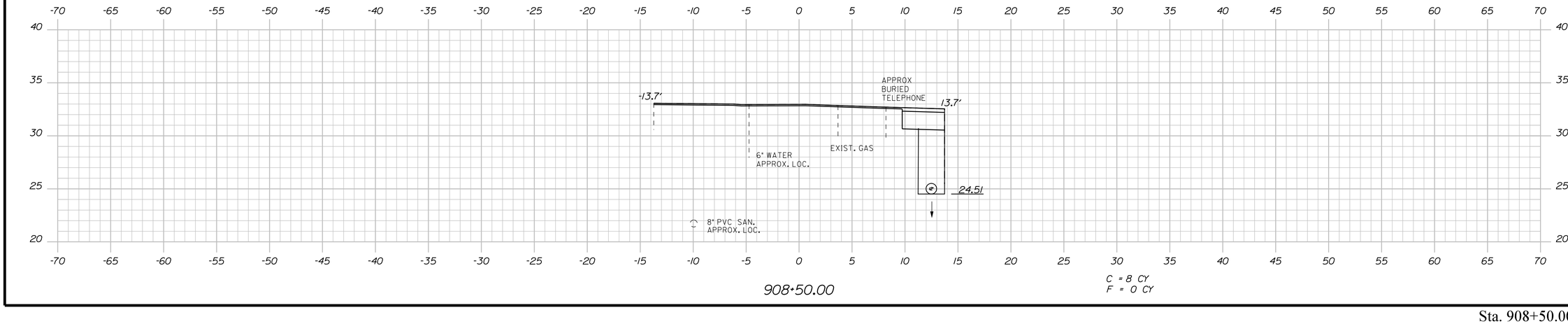
139

OF 172









STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

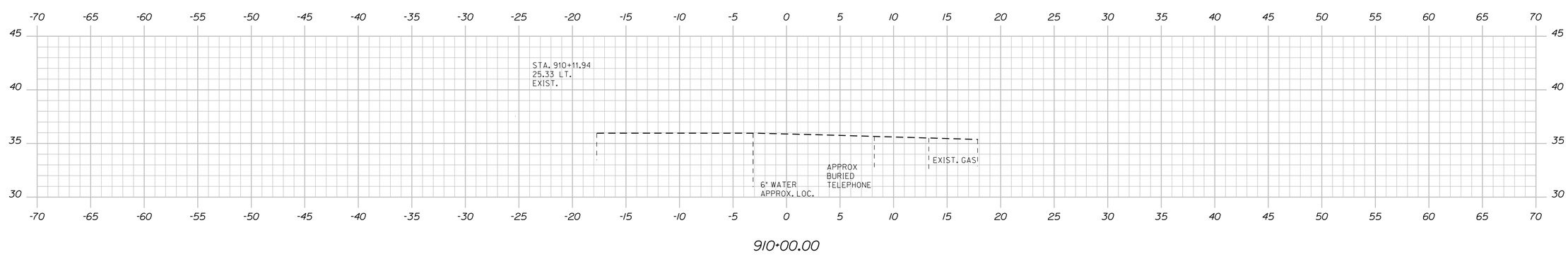
HALLOWELL
SECOND STREET

CROSS SECTIONS

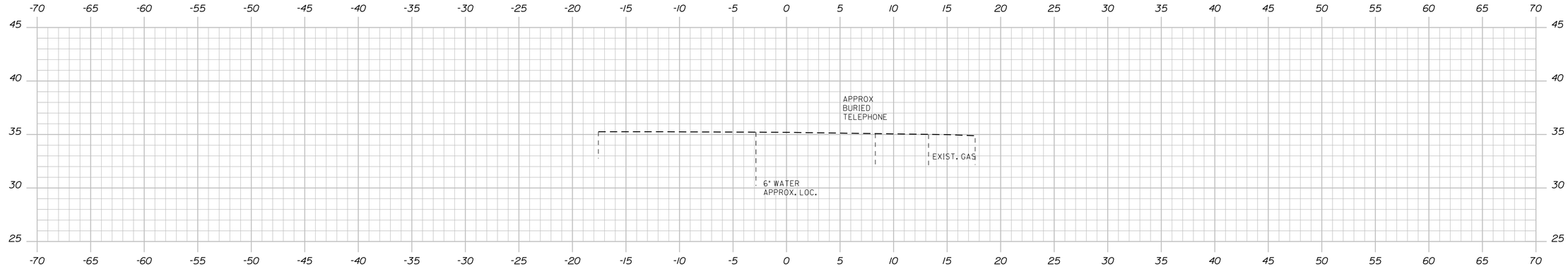
SHEET NUMBER
140
OF 172

Sta. 908+50.00 to Sta. 909+15.98

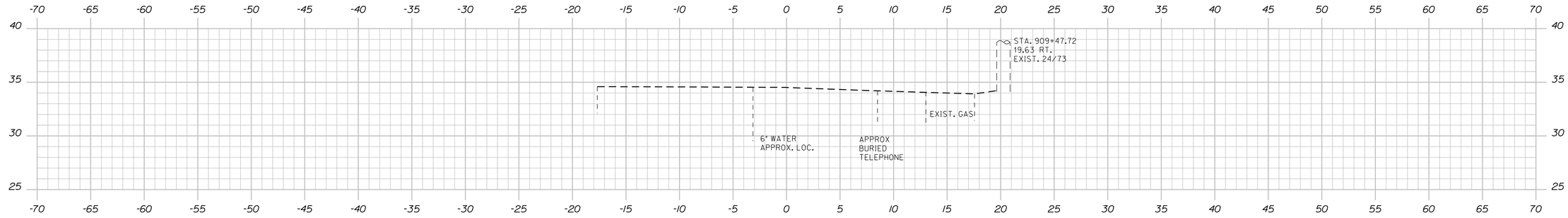
Filename: ...\140_XSECT_908+50_011.dgn Division: HIGHWAY Username: common Date:1/22/2018



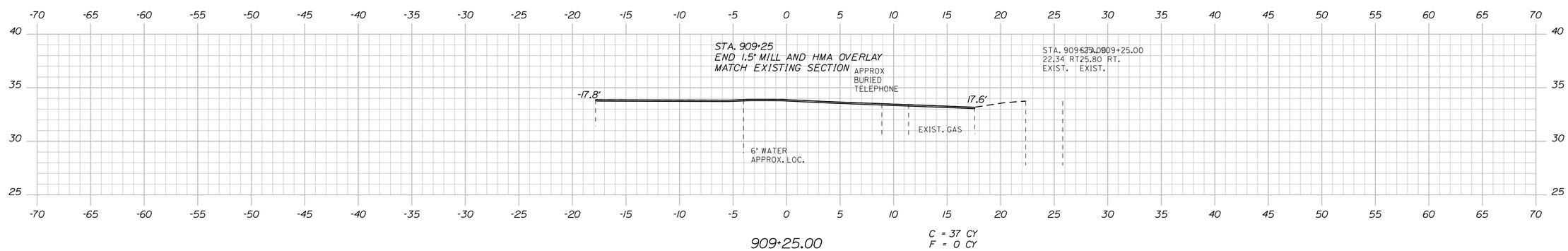
910+00.00



909+75.00



909+50.00



909+25.00

C = 37 CY
F = 0 CY

Sta. 909+25.00 to Sta. 910+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
LICENSED
PROFESSIONAL
ENGINEER

		SIGNATURE	
		7960	P.E. NUMBER
			1/12/18
			DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			1
REVISIONS 2			2
REVISIONS 3			3
REVISIONS 4			4
FIELD CHANGES			5

HALLOWELL
SECOND STREET

CROSS SECTIONS

SHEET NUMBER

141

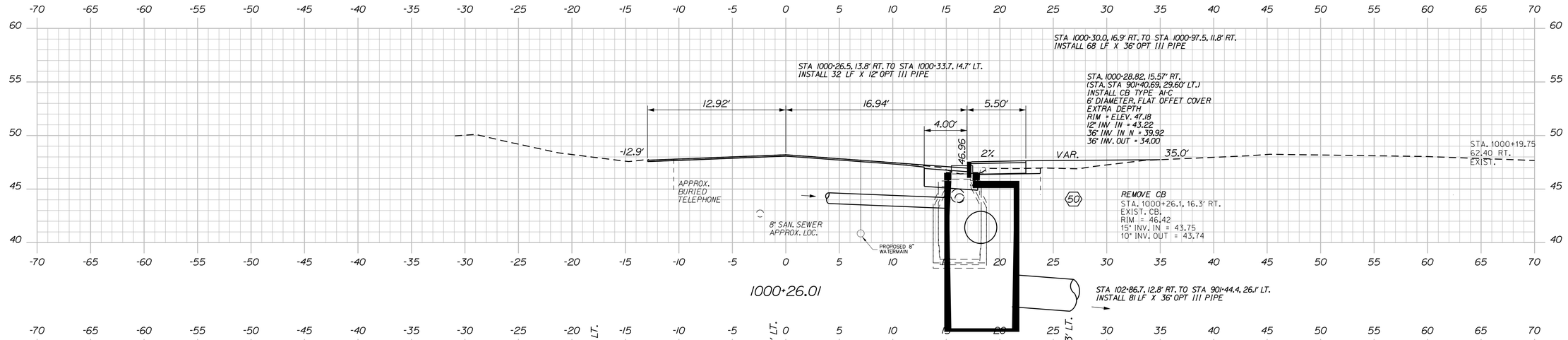
OF 172

Username: common Date:1/22/2018

Division: HIGHWAY

Filename: ...\141_XSECT_909+25_012.dgn

Filename: ...\142_XSECT_1000+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
CHESTNUT STREET

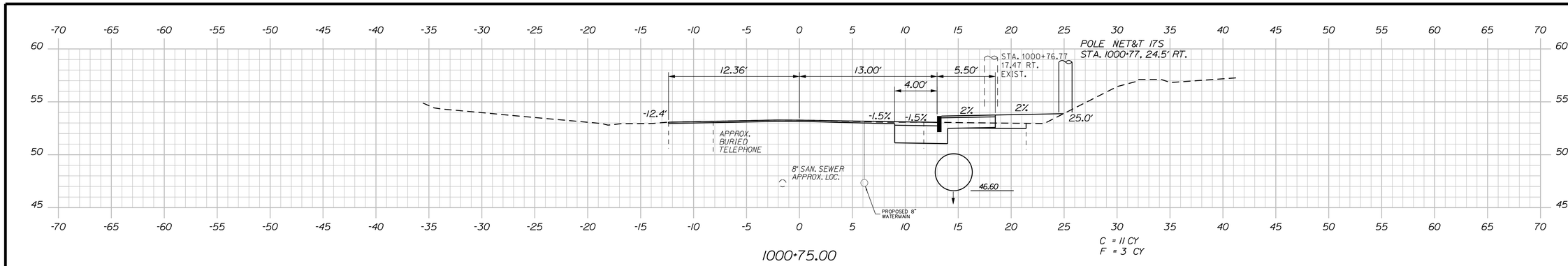
CROSS SECTIONS

SHEET NUMBER

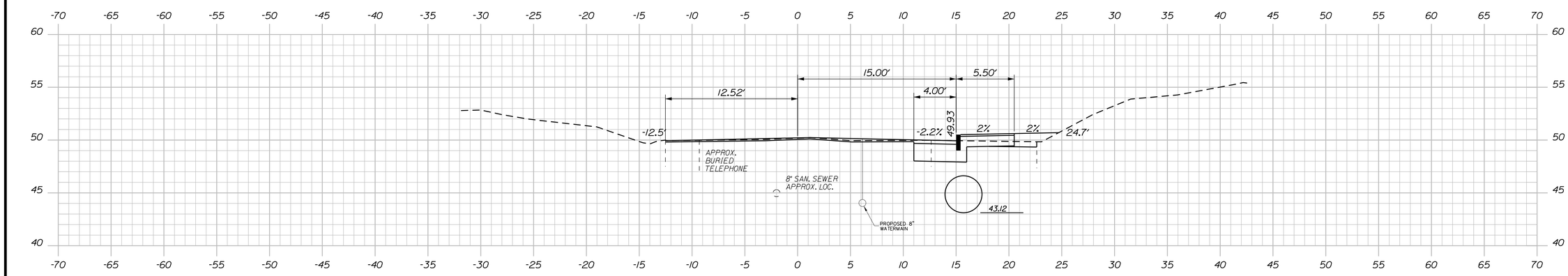
142

OF 172

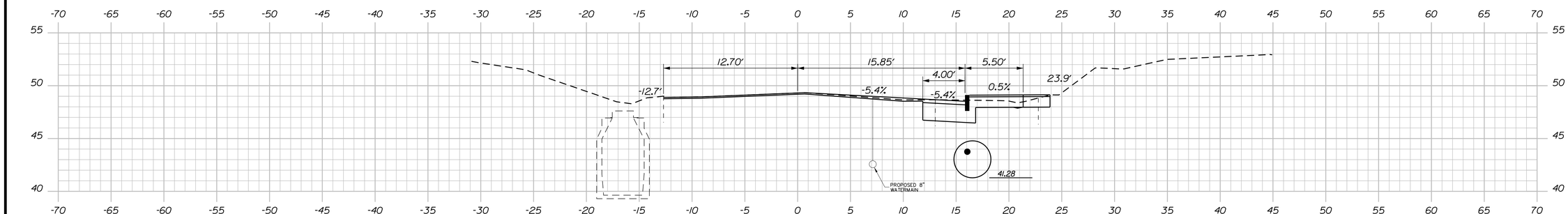
Sta. 1000+00.00 to Sta. 1000+26.01



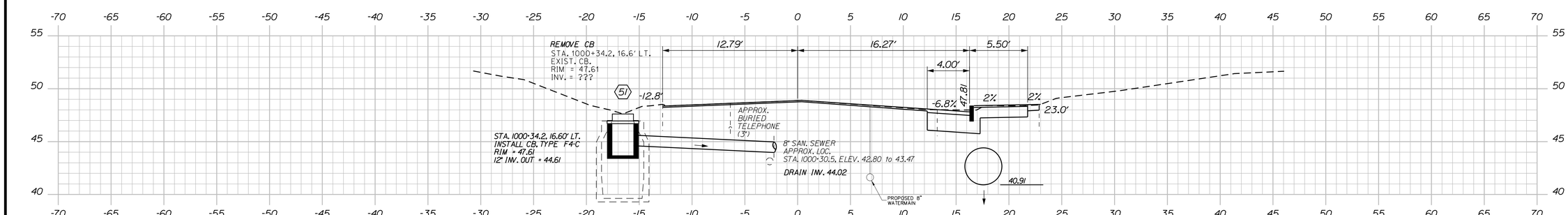
1000+75.00



1000+50.00



1000+39.40



1000+34.14

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		DATE
REVISIONS 2		1-18
REVISIONS 3		1-18
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

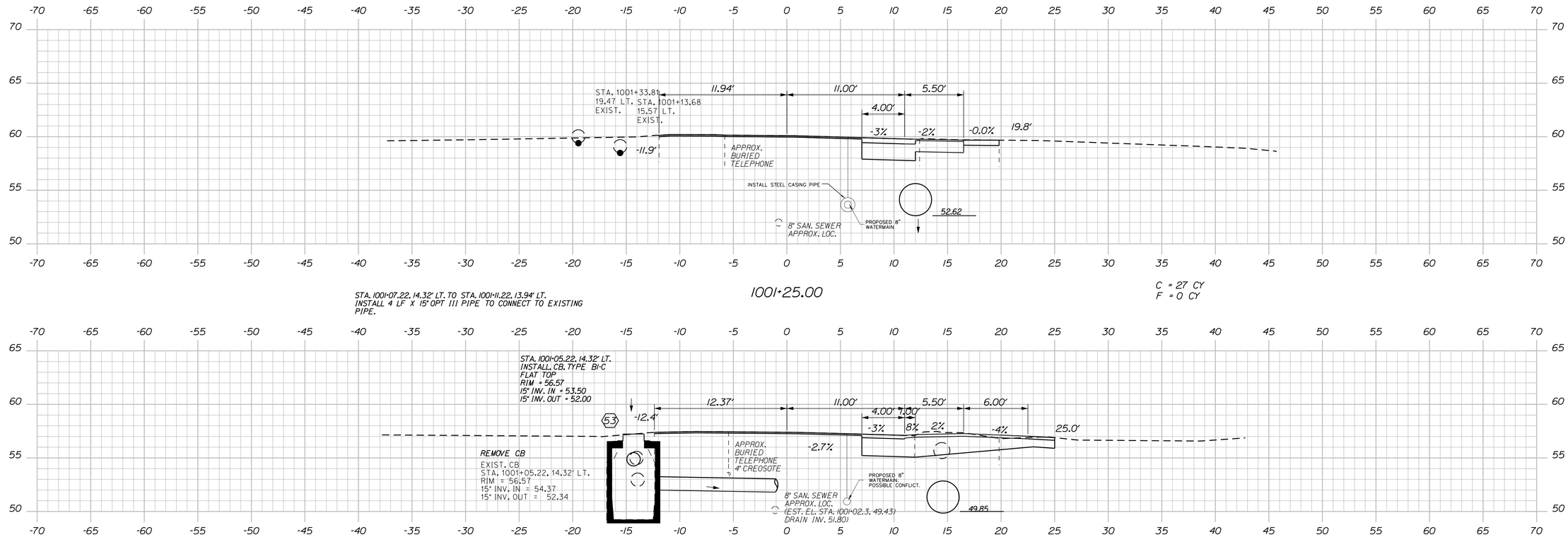
SHEET NUMBER

143

OF 172

Filename: ...\143_XSECT_1000+34_002.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 1000+34.14 to Sta. 1000+75.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

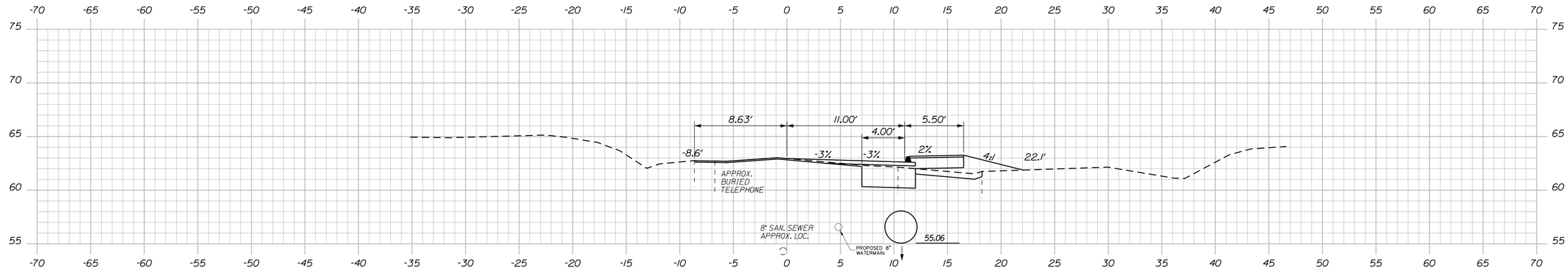
SHEET NUMBER

144

OF 172

Sta. 1001+00.00 to Sta. 1001+25.00

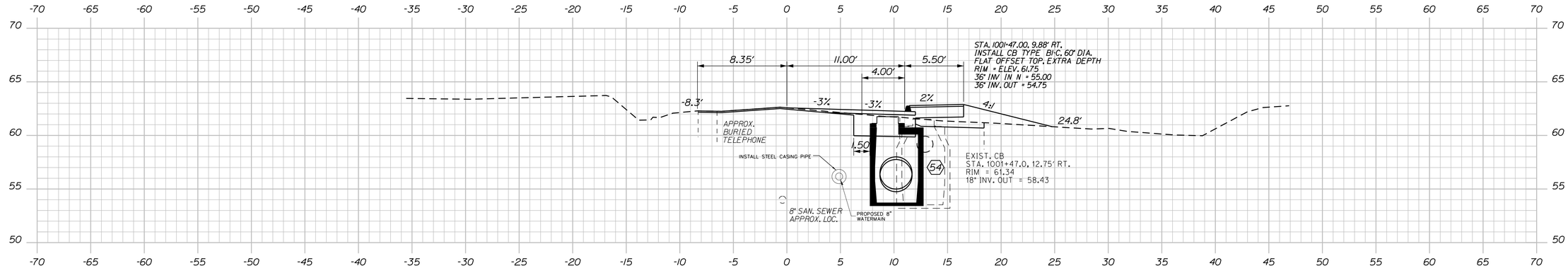
Filename: ...\144_XSECT_1001+00_003.dgn Division: HIGHWAY Username: common Date:1/22/2018



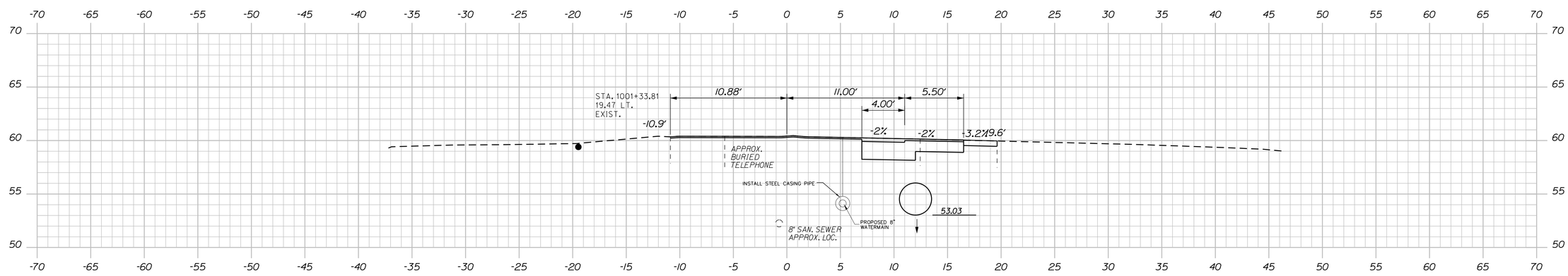
1001+50.00

STA 1001+49.5, 11.5' RT. TO STA 1004+49.5, 11.6' RT.
INSTALL 300 LF X 36" OPT III PIPE

C = 12 CY
F = 4 CY



1001+46.62



1001+27.92

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

PROJ. MANAGER	ERNIE MARTIN	BY
DESIGN-DETAILED	ALC	JLE
CHECKED-REVIEWED	ALC	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		

	DATE
REVISIONS 1	1-18
REVISIONS 2	1-18
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

SHEET NUMBER

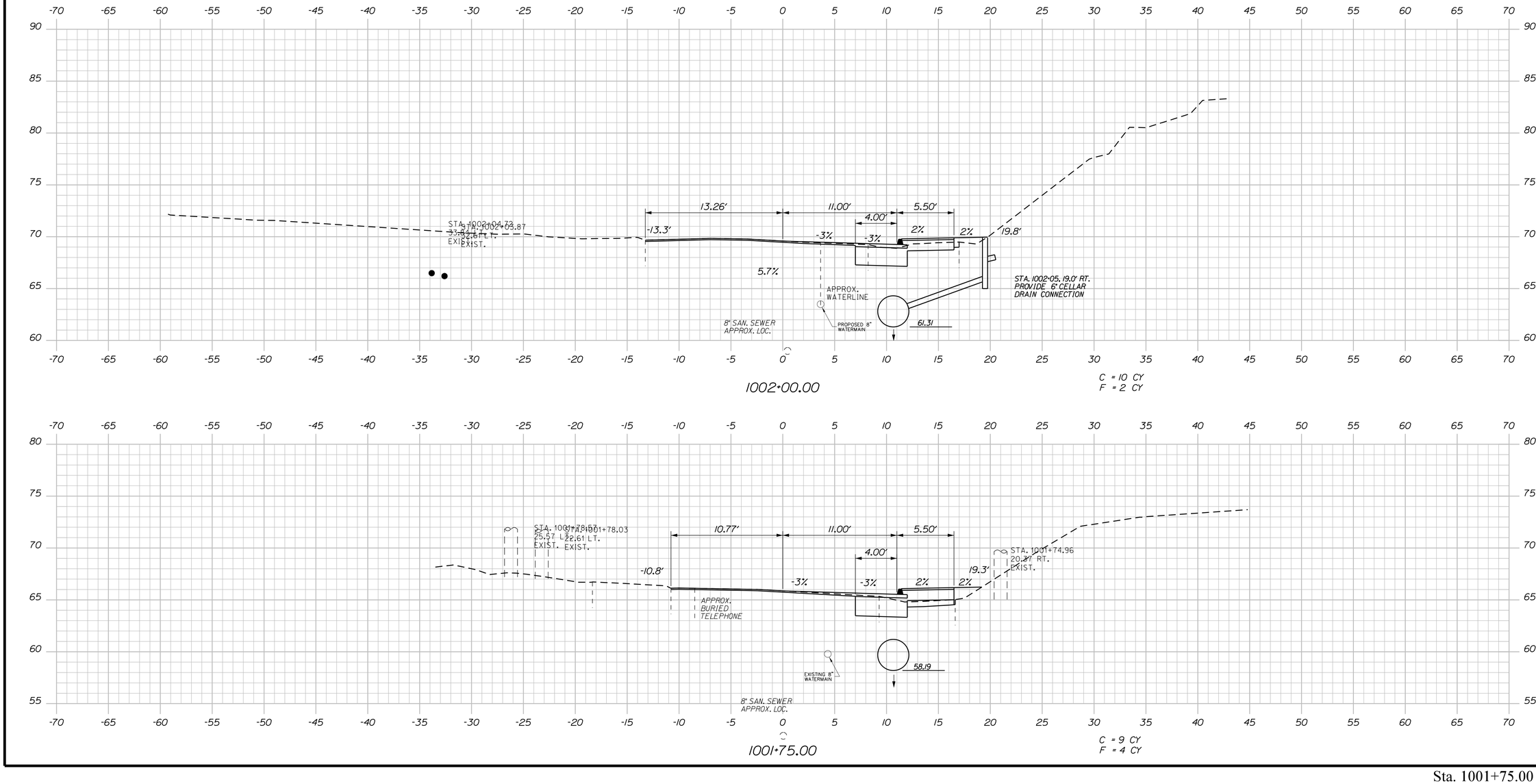
145

OF 172

Filename: ...\145_XSECT_1001+27_004.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 1001+27.92 to Sta. 1001+50.00

Filename: ...\146_XSECT_1001+75_005.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON No 7960 · LICENSED PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN	JLE	
DESIGN-DETAILED	ALG		1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
CHESTNUT STREET

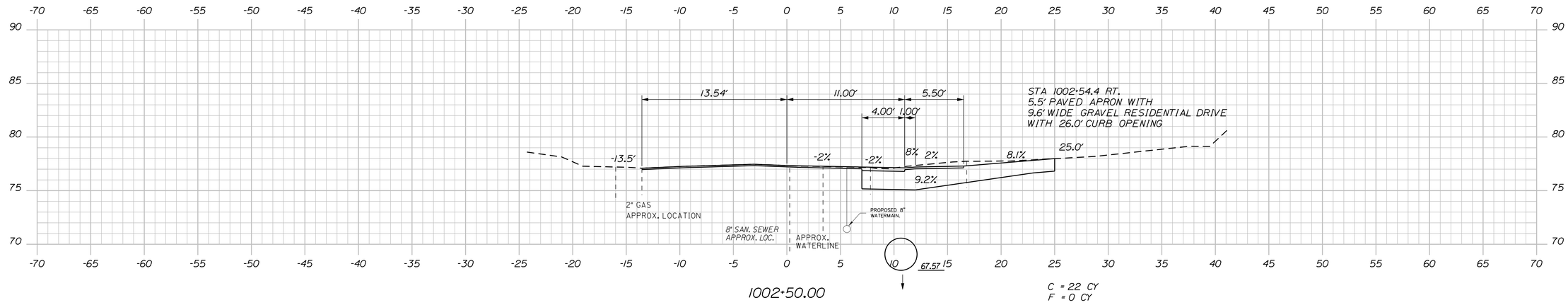
CROSS SECTIONS

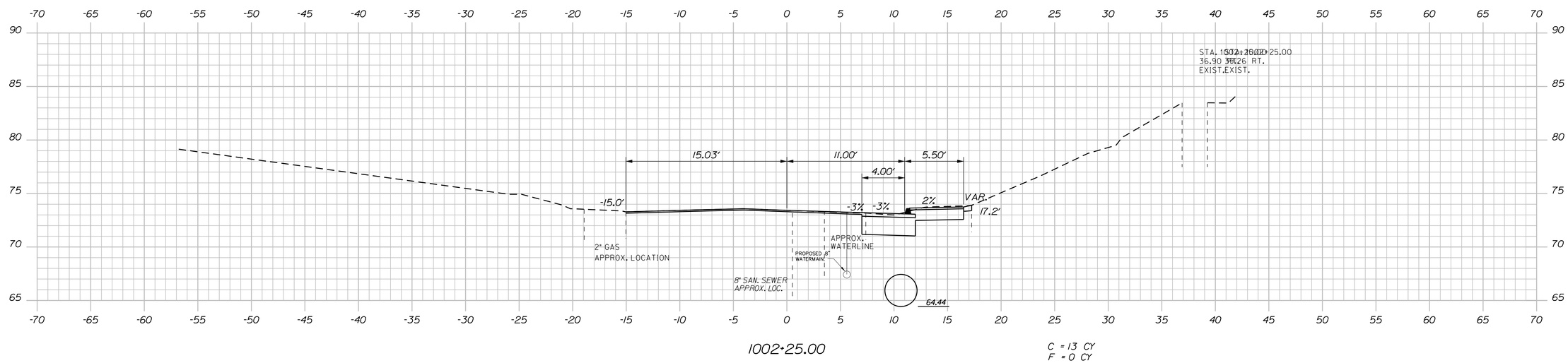
SHEET NUMBER

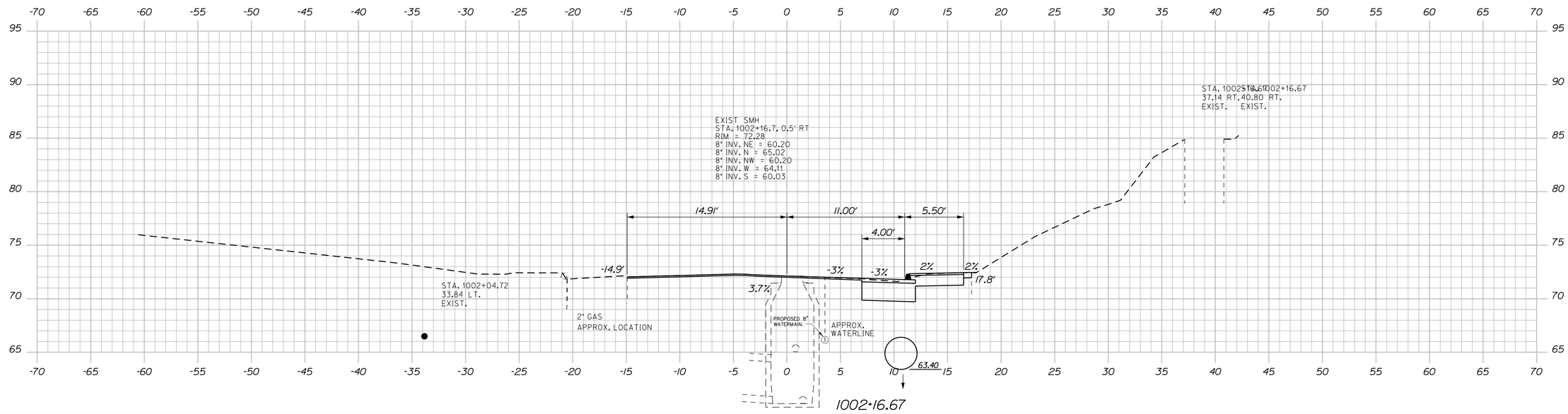
146

OF 172

Sta. 1001+75.00 to Sta. 1002+00.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

		SIGNATURE	
		7960	
		P.E. NUMBER	
		1/12/18	
		DATE	

PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

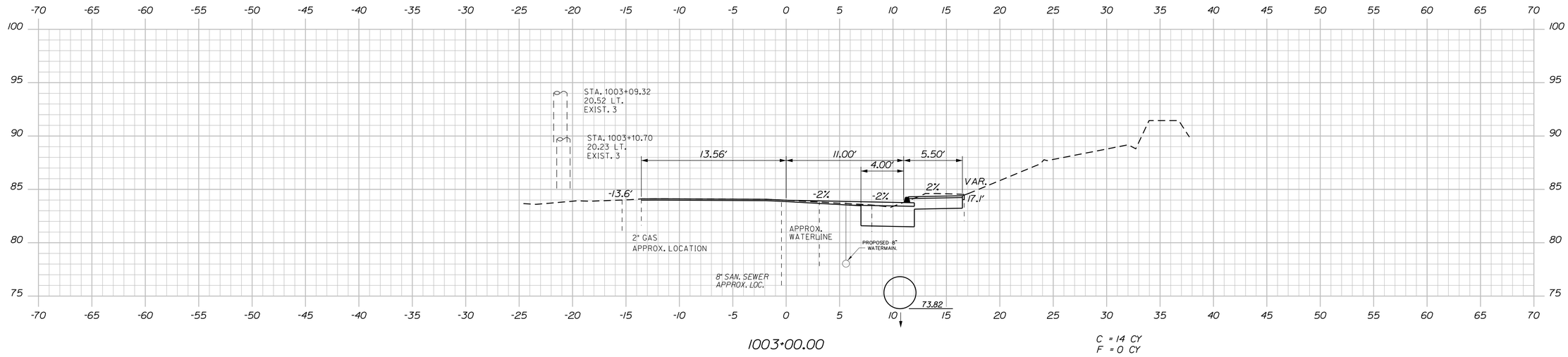
SHEET NUMBER

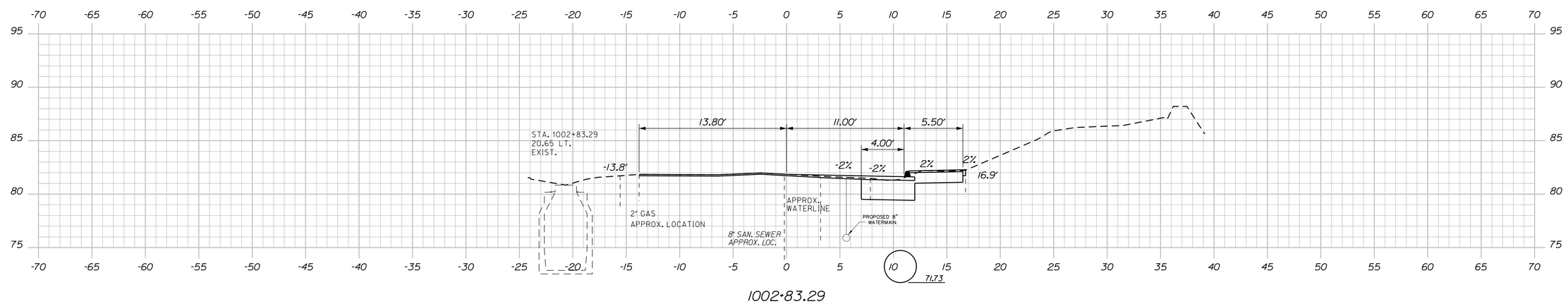
147

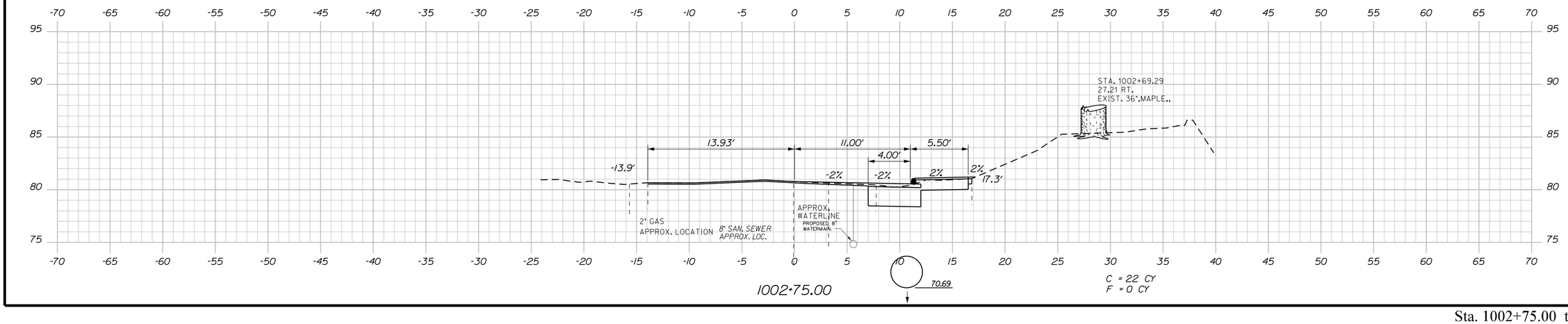
OF 172

Sta. 1002+16.67 to Sta. 1002+50.00

Filename: ...\147_XSECT_1002+16_006.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
CHESTNUT STREET

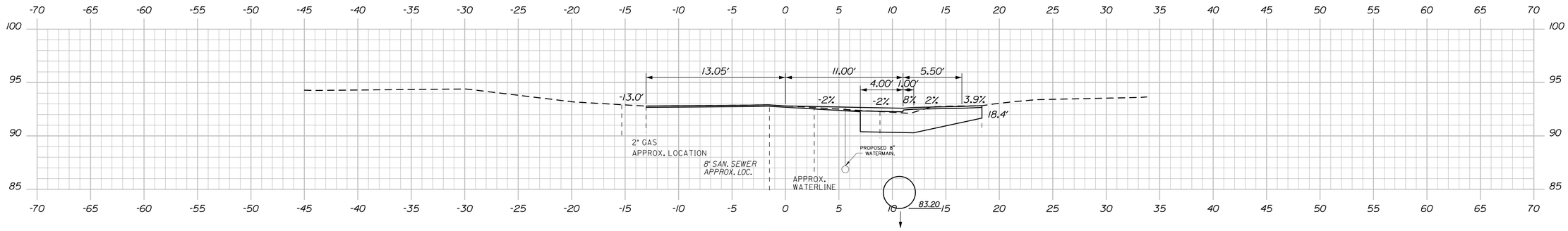
CROSS SECTIONS

SHEET NUMBER
148
OF 172

Sta. 1002+75.00 to Sta. 1003+00.00

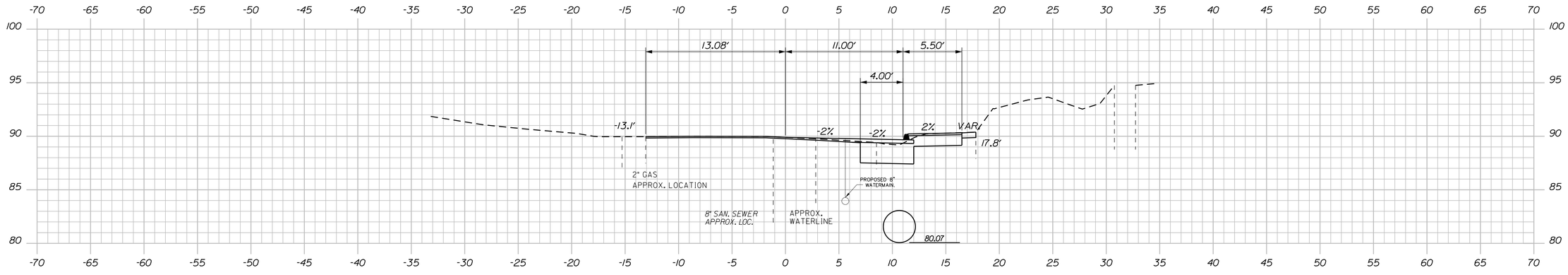
Filename: ...\148_XSECT_1002+75_007.dgn Division: HIGHWAY Username: common Date:1/22/2018

STA 1003+83.2 RT.
10.4' WIDE PAVED RESIDENTIAL DRIVE
WITH 26.0' CURB OPENING



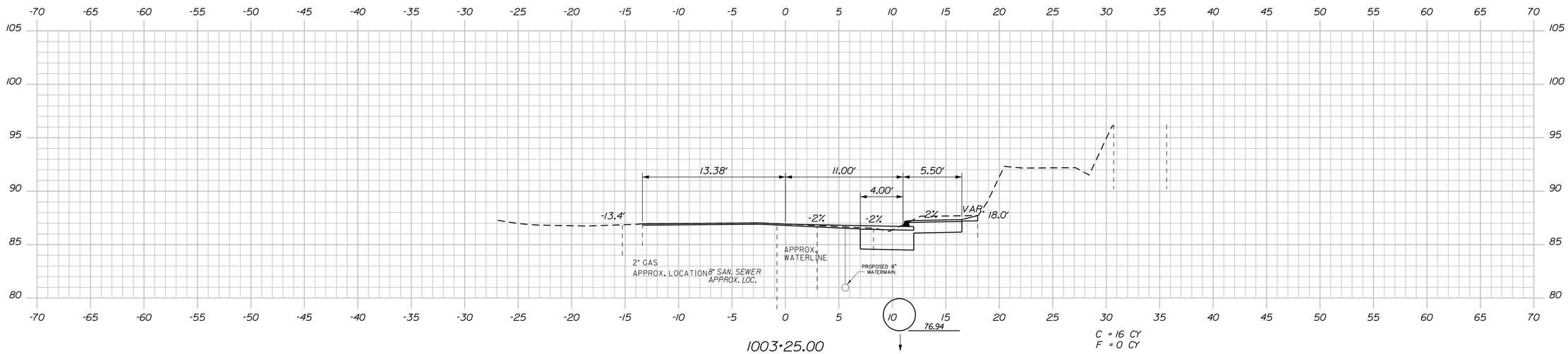
1003+75.00

C = 16 CY
F = 0 CY



1003+50.00

C = 15 CY
F = 0 CY



1003+25.00

C = 16 CY
F = 0 CY

Sta. 1003+25.00 to Sta. 1003+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

SHEET NUMBER

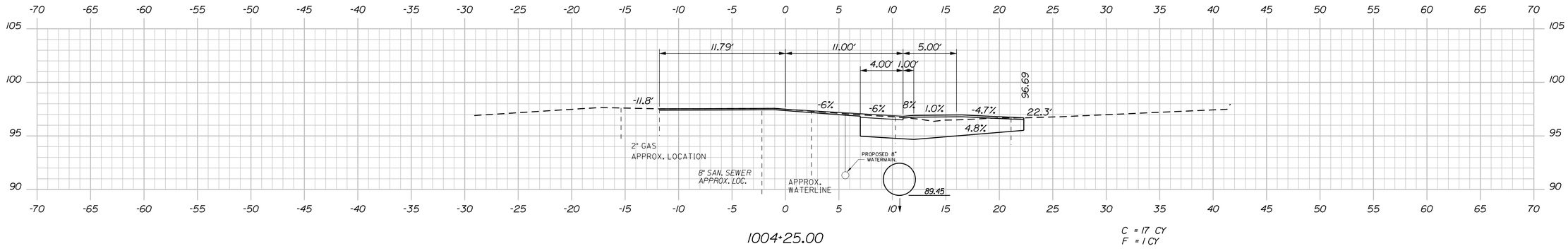
149

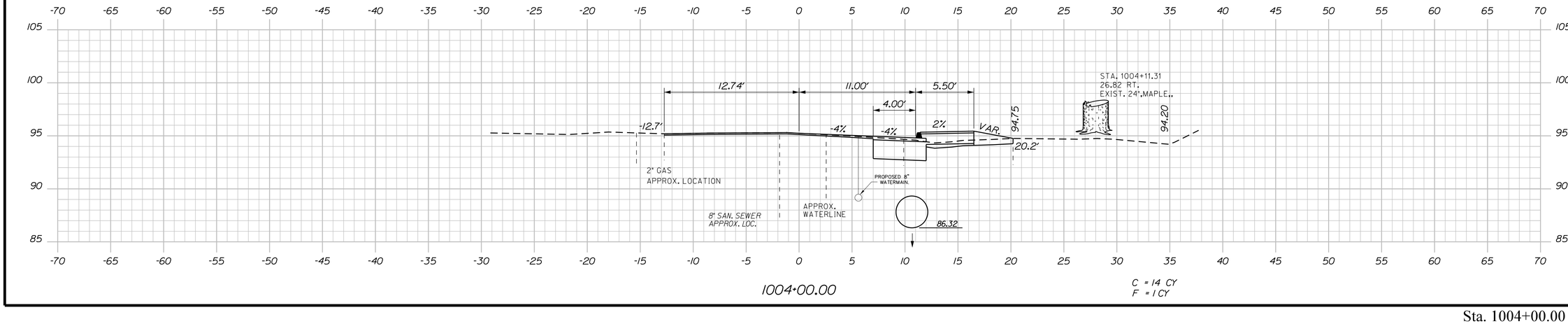
OF 172

Filename: ...\149_XSECT_1003+25_008.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\150_XSECT_1004+00_009.dgn Division: HIGHWAY Username: common Date:1/22/2018

STA 1004+29.1 RT.
11.9' WIDE PAVED RESIDENTIAL DRIVE
WITH 26' CURB OPENING





Sta. 1004+00.00 to Sta. 1004+27.56

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE			
7960			
P.E. NUMBER			
1/12/18			
DATE			

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

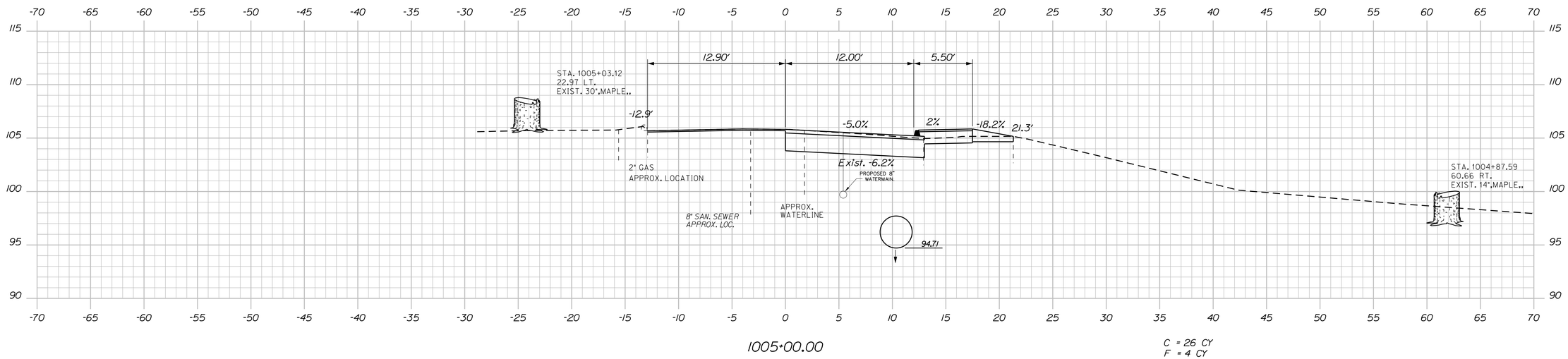
HALLOWELL
CHESTNUT STREET

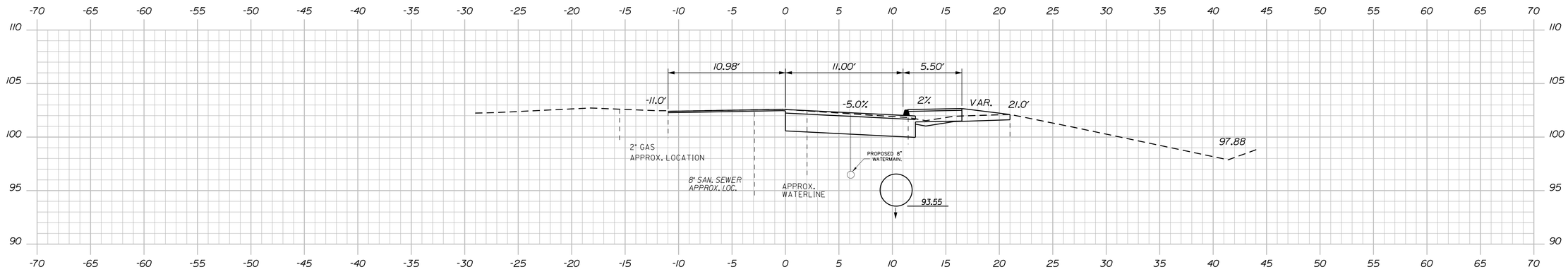
CROSS SECTIONS

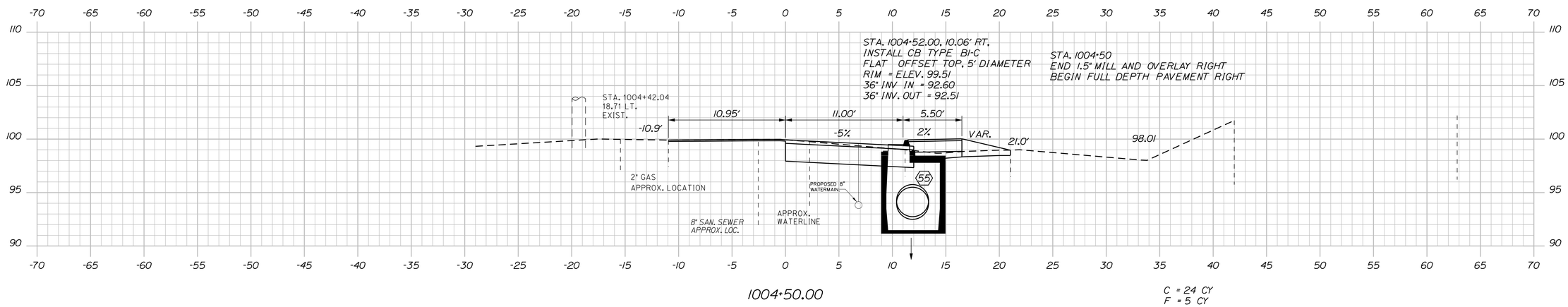
SHEET NUMBER

150

OF 172







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
REGISTERED
PROFESSIONAL
ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALC	1-18
CHECKED-REVIEWED	ALC	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	JLE	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

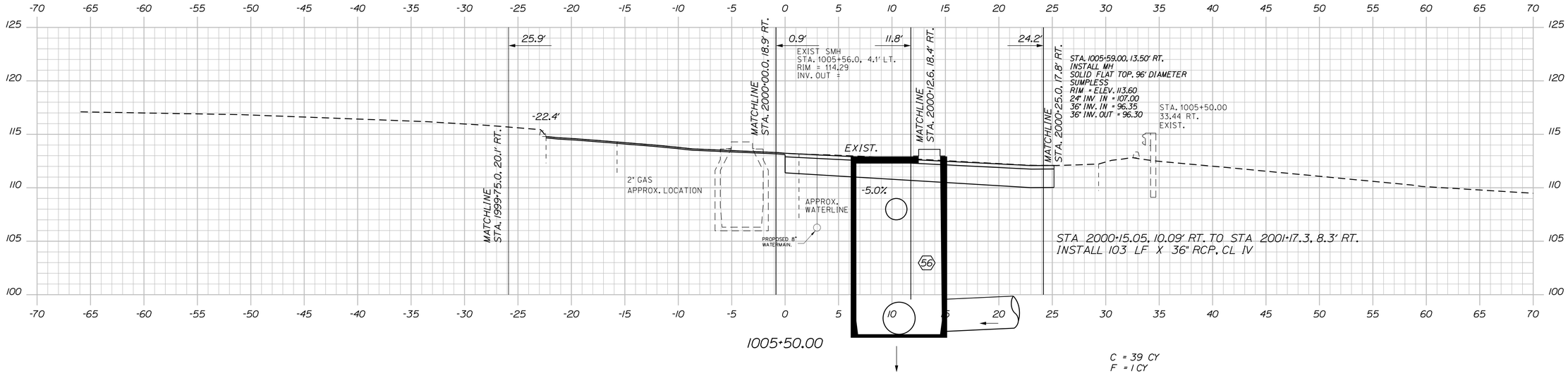
SHEET NUMBER

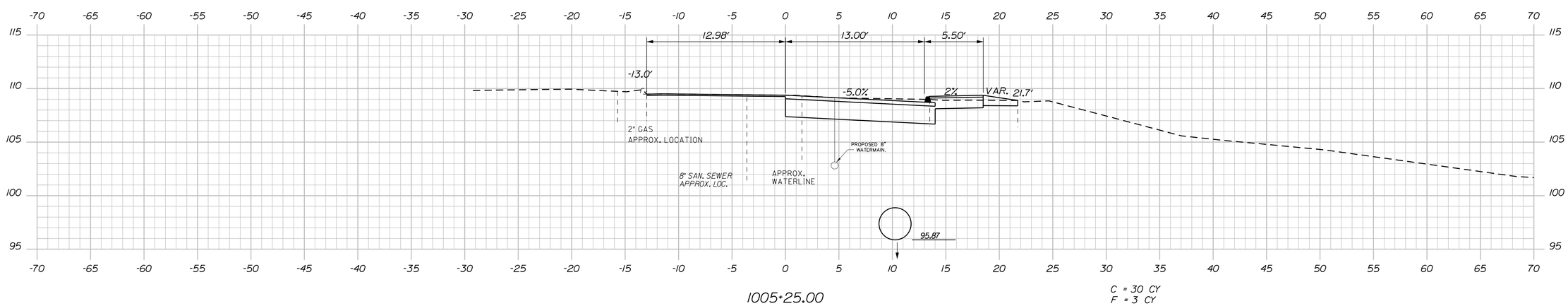
151

OF 172

Filename: ...\151_XSECT_1004+50_010.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 1004+50.00 to Sta. 1005+00.00





Sta. 1005+25.00 to Sta. 1005+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

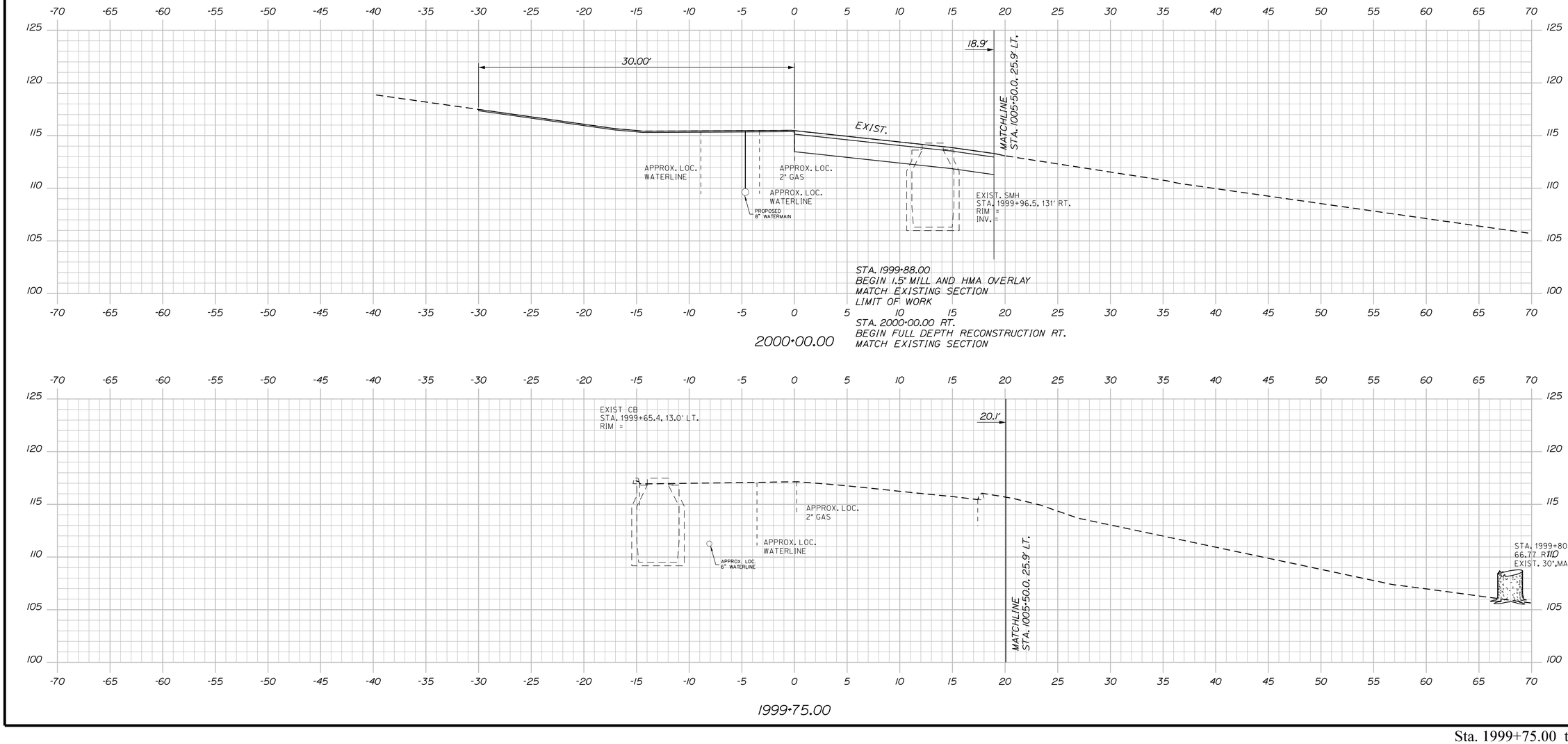
HALLOWELL
CHESTNUT STREET

CROSS SECTIONS

SHEET NUMBER
152
OF 172

Filename: ...\152_XSECT_1005+25_011.dgn Division: HIGHWAY Username: common Date:1/22/2018

Username: common Date:1/22/2018
Division: HIGHWAY
Filename: ...\153_XSECT_1999+75_007.dgn



Sta. 1999+75.00 to Sta. 2000+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON — No. 7960 — LICENSED PROFESSIONAL ENGINEER

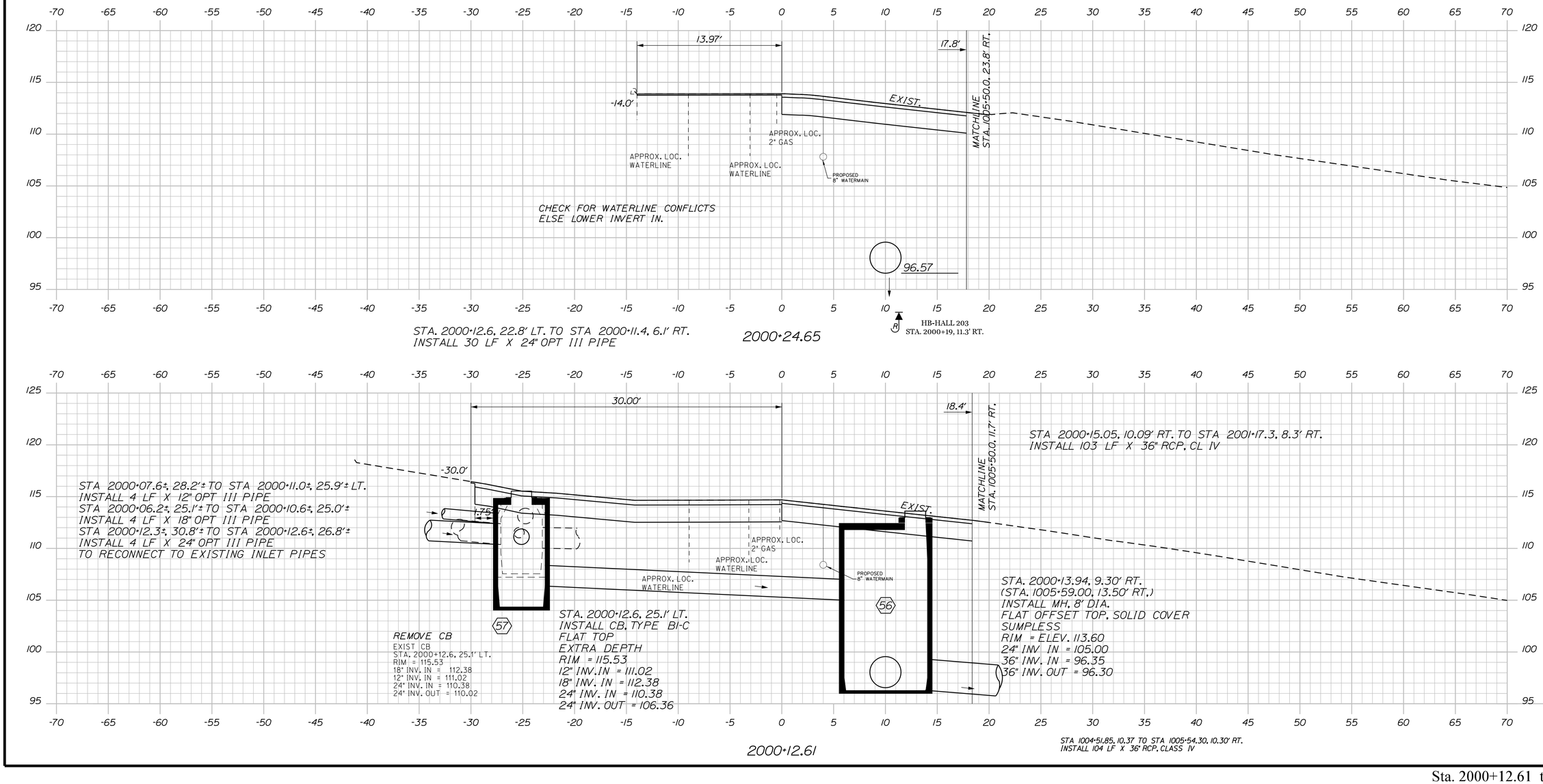
SIGNATURE
7960 P.E. NUMBER
1/12/18 DATE

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
MIDDLE STREET

CROSS SECTIONS

SHEET NUMBER
153
OF 172



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE		
7960		
P.E. NUMBER		
1/12/18		
DATE		

PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	JLE	

HALLOWELL
MIDDLE STREET

CROSS SECTIONS

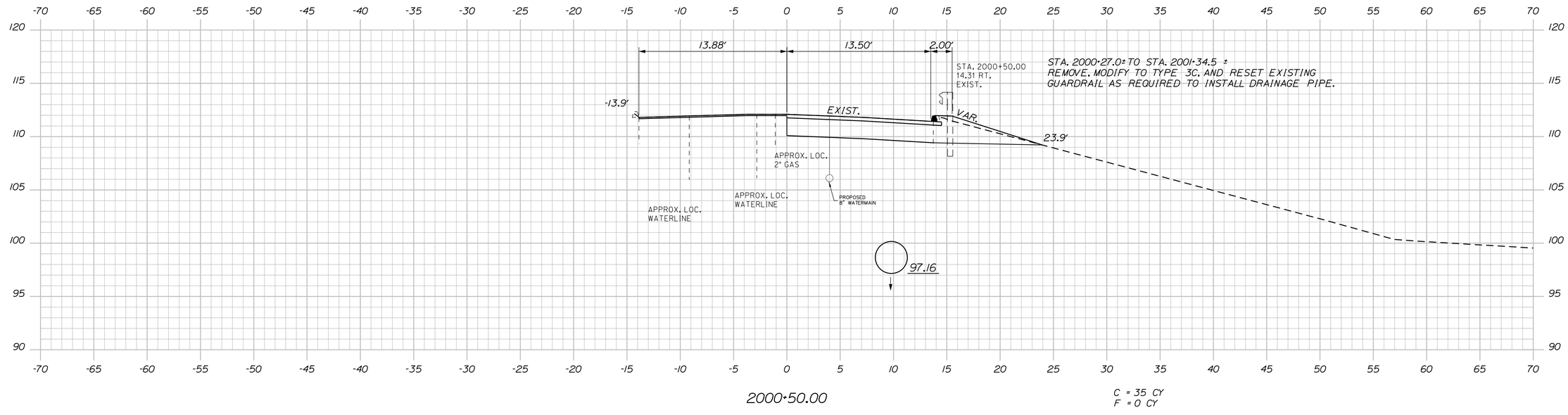
SHEET NUMBER

154

OF 172

Sta. 2000+12.61 to Sta. 2000+24.65

Filename: ...\154_XSECT_2000+12_001.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
LICENSED
PROFESSIONAL
ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
MIDDLE STREET

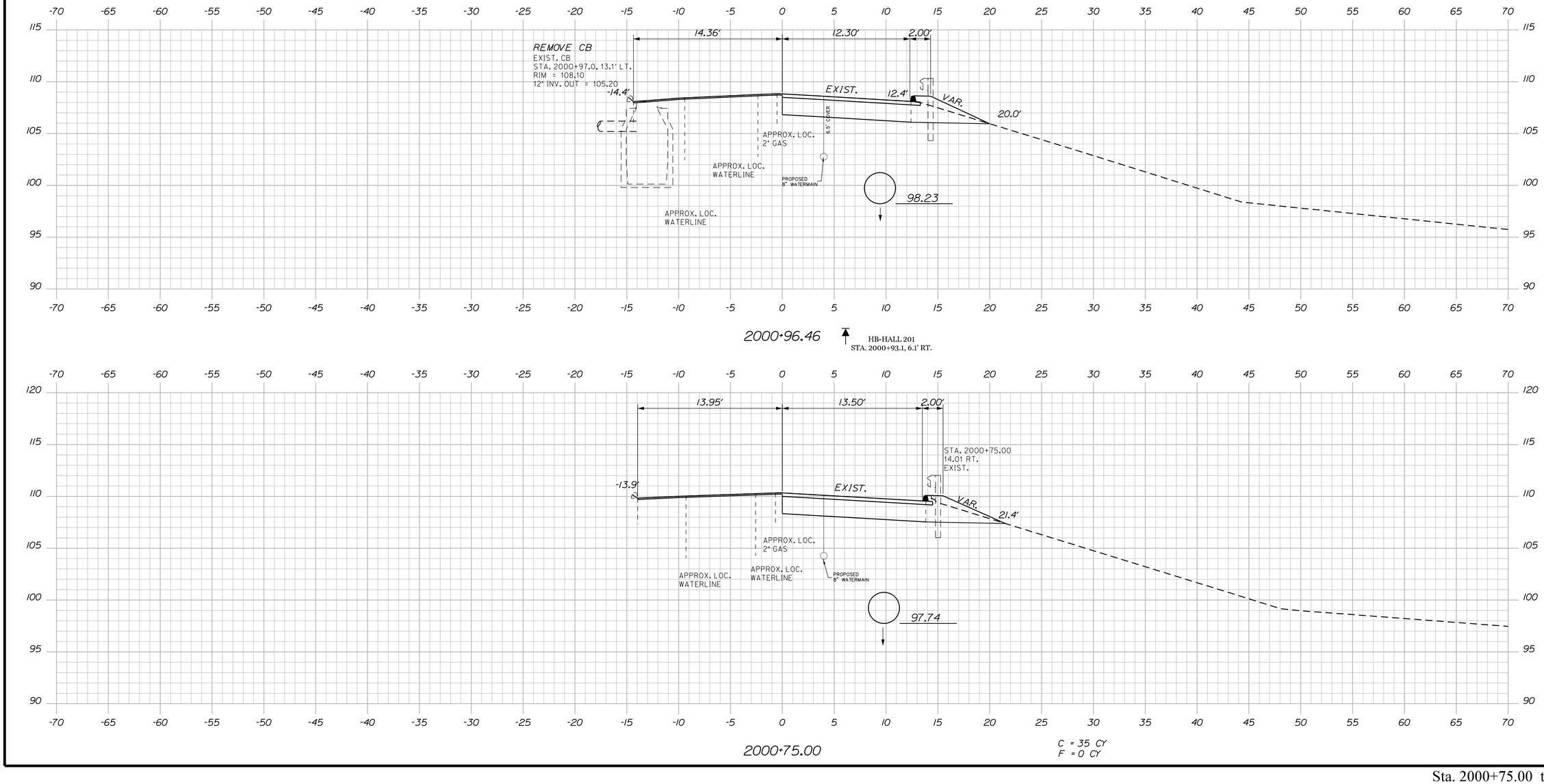
CROSS SECTIONS

SHEET NUMBER
155
OF 172

Sta. 2000+25.00 to Sta. 2000+50.00

Filename: ...\155_XSECT_2000+25_002.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\156_XSECT_2000+75_003.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L. EASON No. 7960 — LICENSED PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

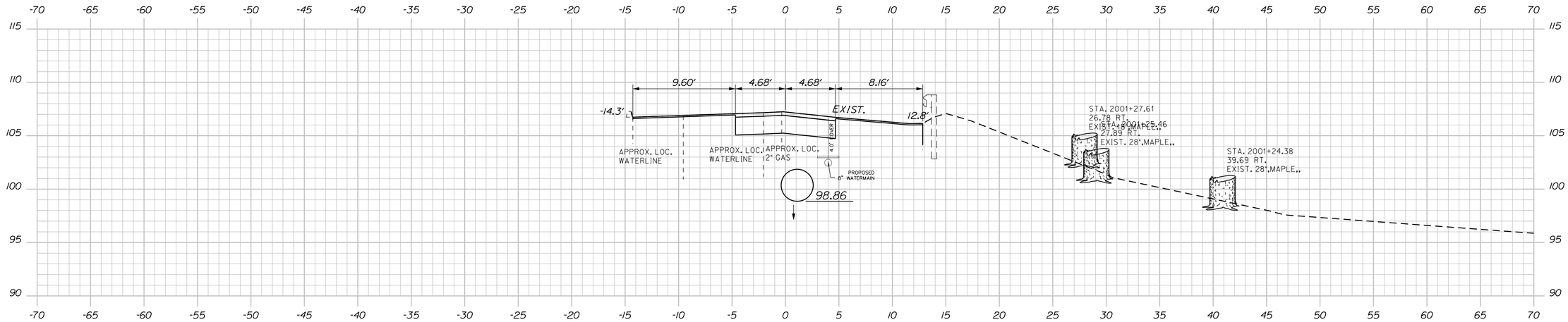
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
MIDDLE STREET

CROSS SECTIONS

SHEET NUMBER
156
OF 172

Sta. 2000+75.00 to Sta. 2000+96.46

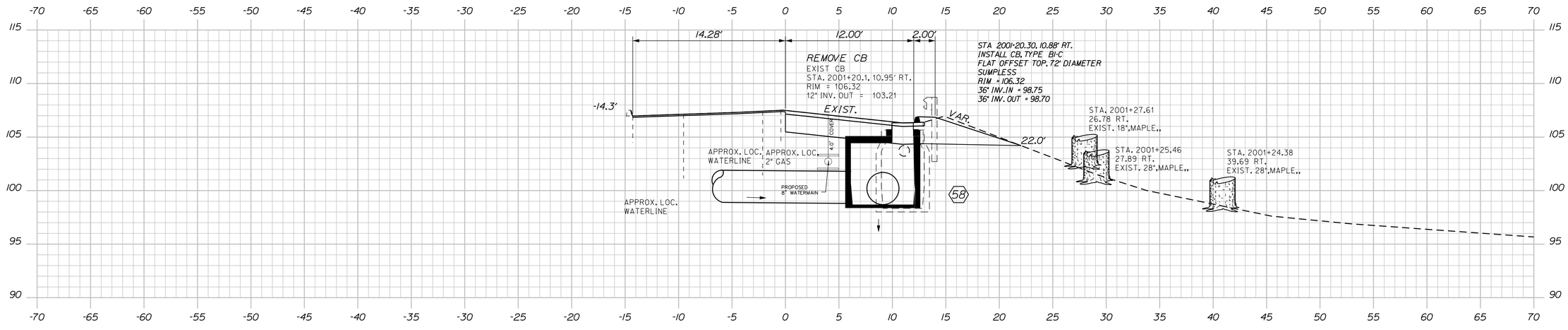


2001+25.00

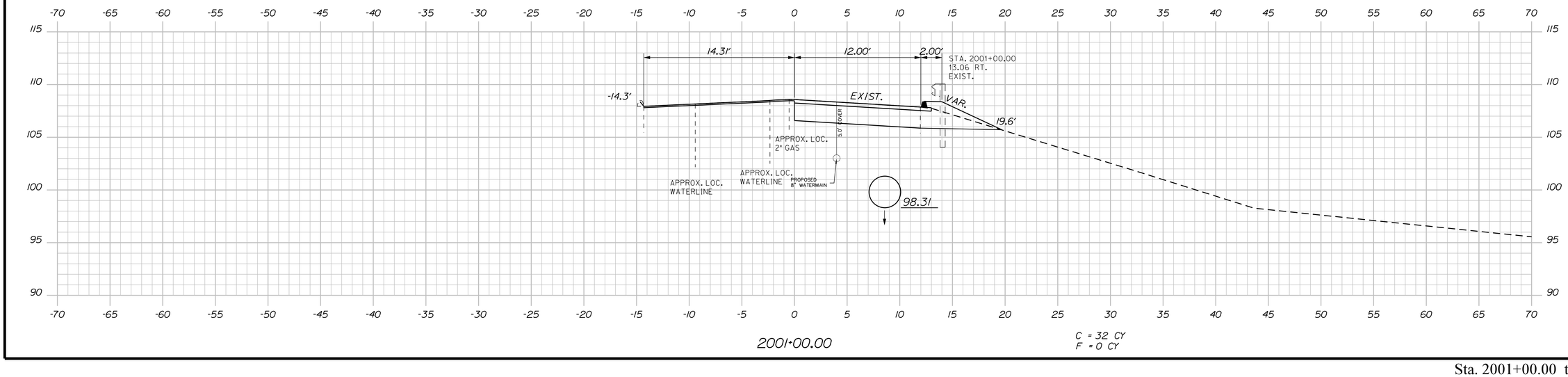
STA STA 2001+22.0, 6.0' RT. TO STA STA 2001+34.0, 12.7' LT.
INSTALL 23 LF X 36" OPT III PIPE

STA. 2001+25.00 RT.
END FULL DEPTH RECONSTRUCTION RT.
BEGIN 1.5" MILL AND HMA OVERLAY RT.

C = 32 CY
F = 0 CY



2001+20.10



2001+00.00

C = 32 CY
F = 0 CY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE · JAMES L EASON · No. 7960 · LICENSED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

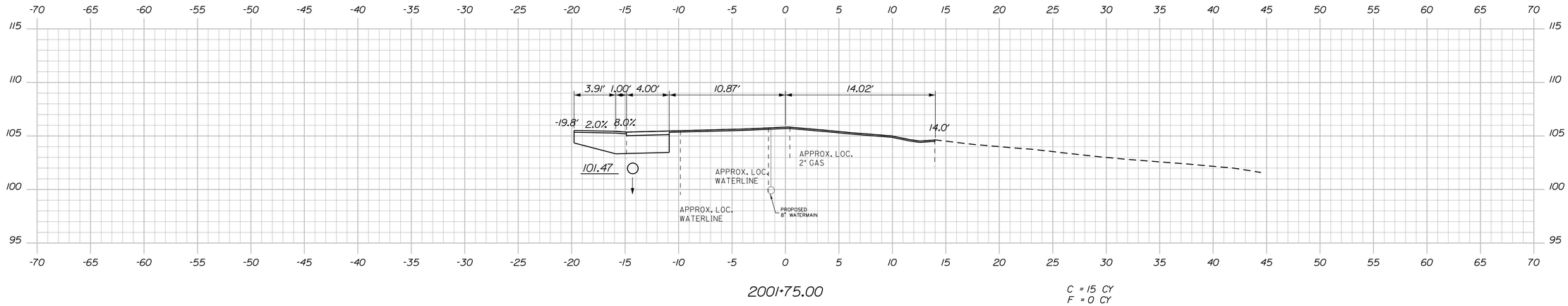
HALLOWELL
MIDDLE STREET

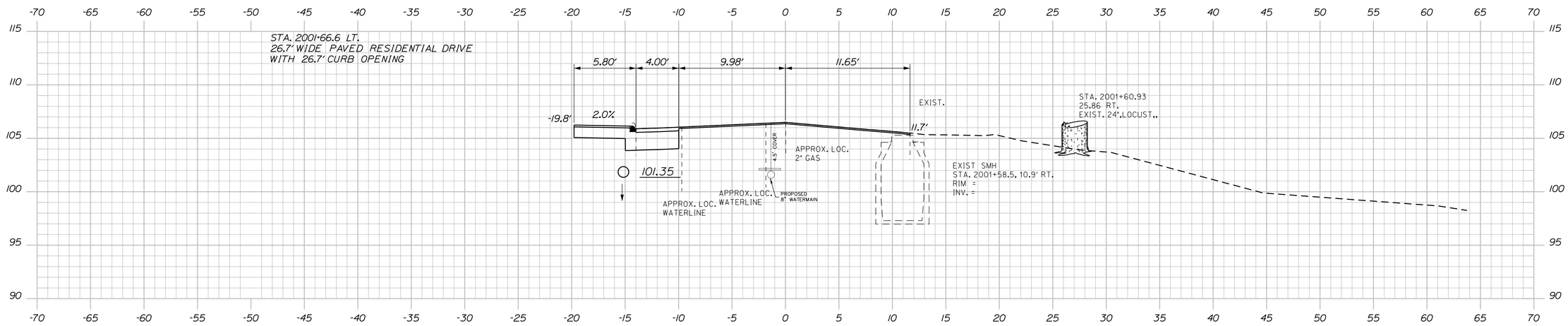
CROSS SECTIONS

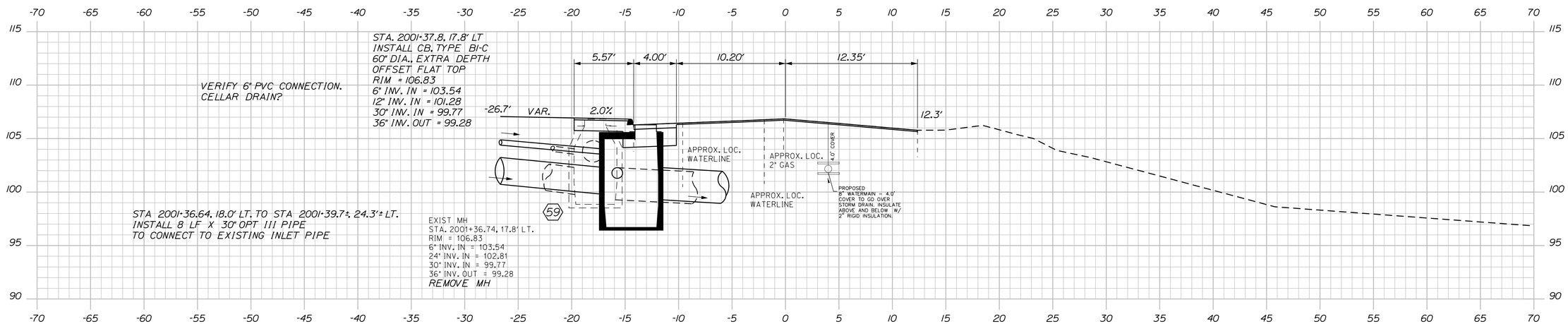
SHEET NUMBER
157
OF 172

Filename: ...\157_XSECT_2001+00_004.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 2001+00.00 to Sta. 2001+25.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN 18622.00

HIGHWAY PLANS

STATE OF MAINE — JAMES L EASON No. 7960 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE	
7960	
P.E. NUMBER	
1/12/18	
DATE	

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2	ALG		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
MIDDLE STREET

CROSS SECTIONS

SHEET NUMBER

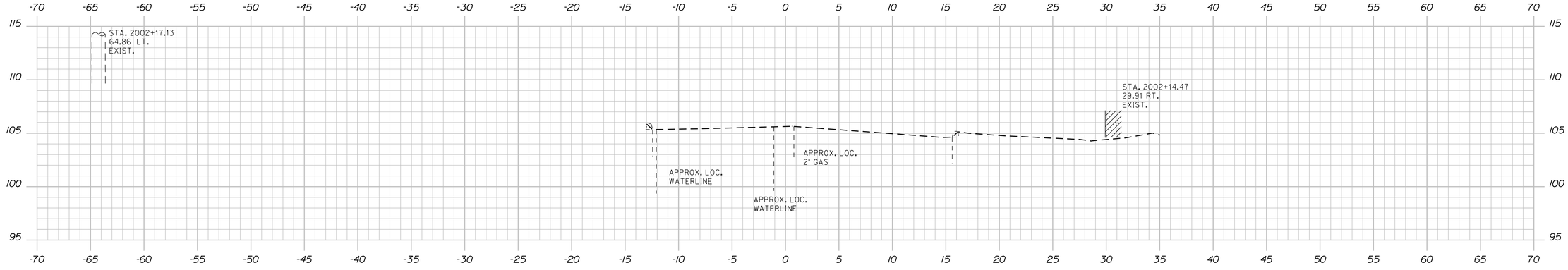
158

OF 172

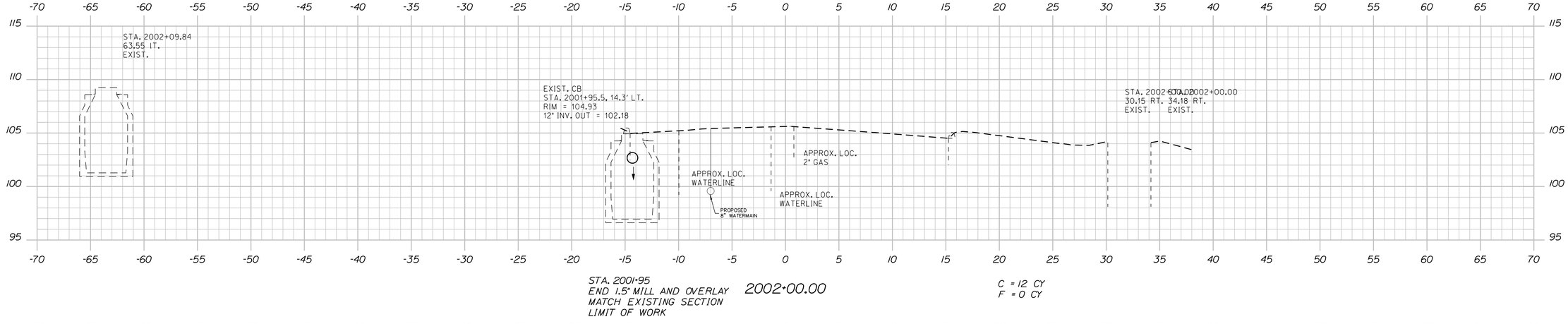
Filename: ...\158_XSECT_2001+36_005.dgn Division: HIGHWAY Username: common Date:1/22/2018

Sta. 2001+36.28 to Sta. 2001+75.00

Filename: ...\159_XSECT_2001+89_006.dgn Division: HIGHWAY Username: common Date:1/22/2018



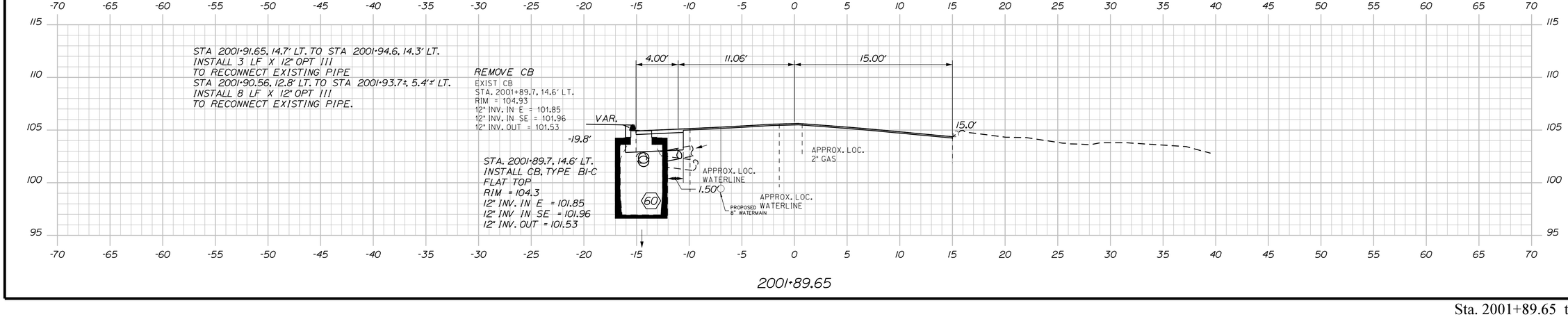
2002+25.00



STA. 2001+95
END 1.5" MILL AND OVERLAY
MATCH EXISTING SECTION
LIMIT OF WORK

2002+00.00

C = 12 CY
F = 0 CY



2001+89.65

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	ALG	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
MIDDLE STREET

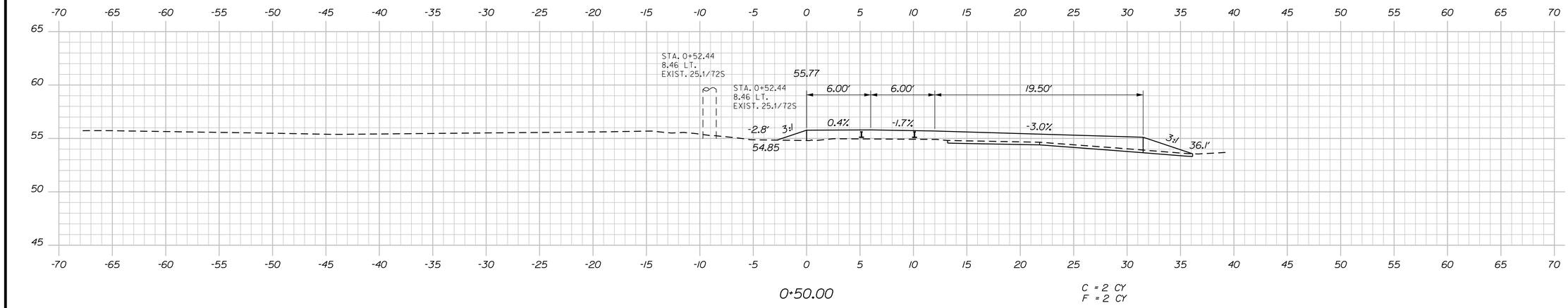
CROSS SECTIONS

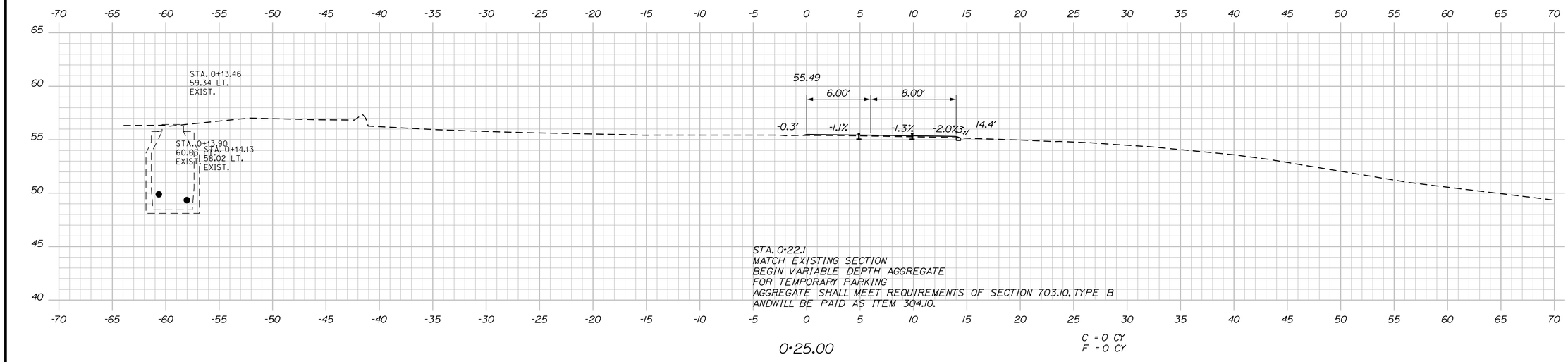
SHEET NUMBER

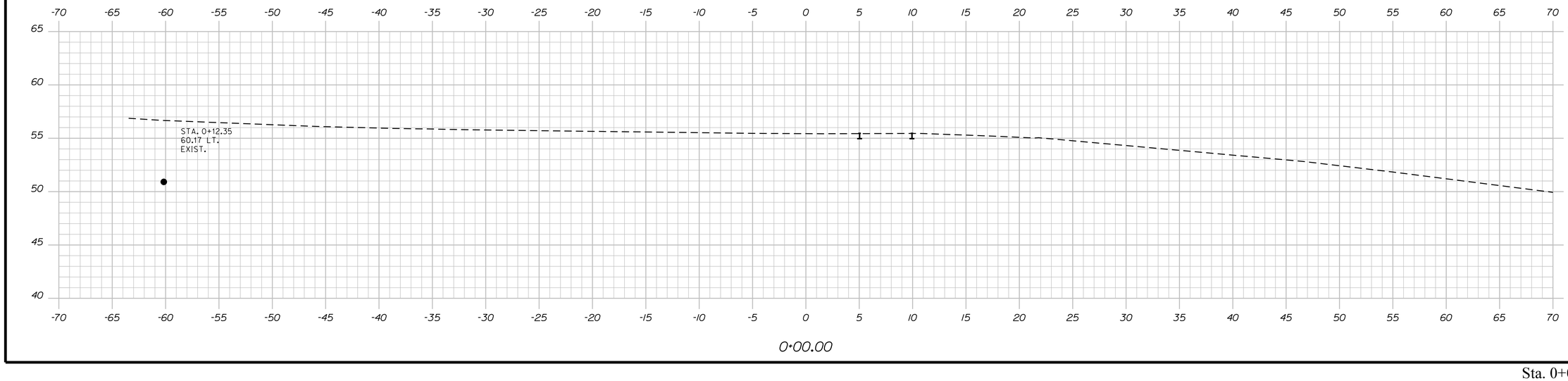
159

OF 172

Sta. 2001+89.65 to Sta. 2002+25.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

PROJ. MANAGER	ERNIE MARTIN	BY	DATE
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

7960
P.E. NUMBER

1/12/18
DATE

HALLOWELL
TEMPORARY PARKING

CROSS SECTIONS

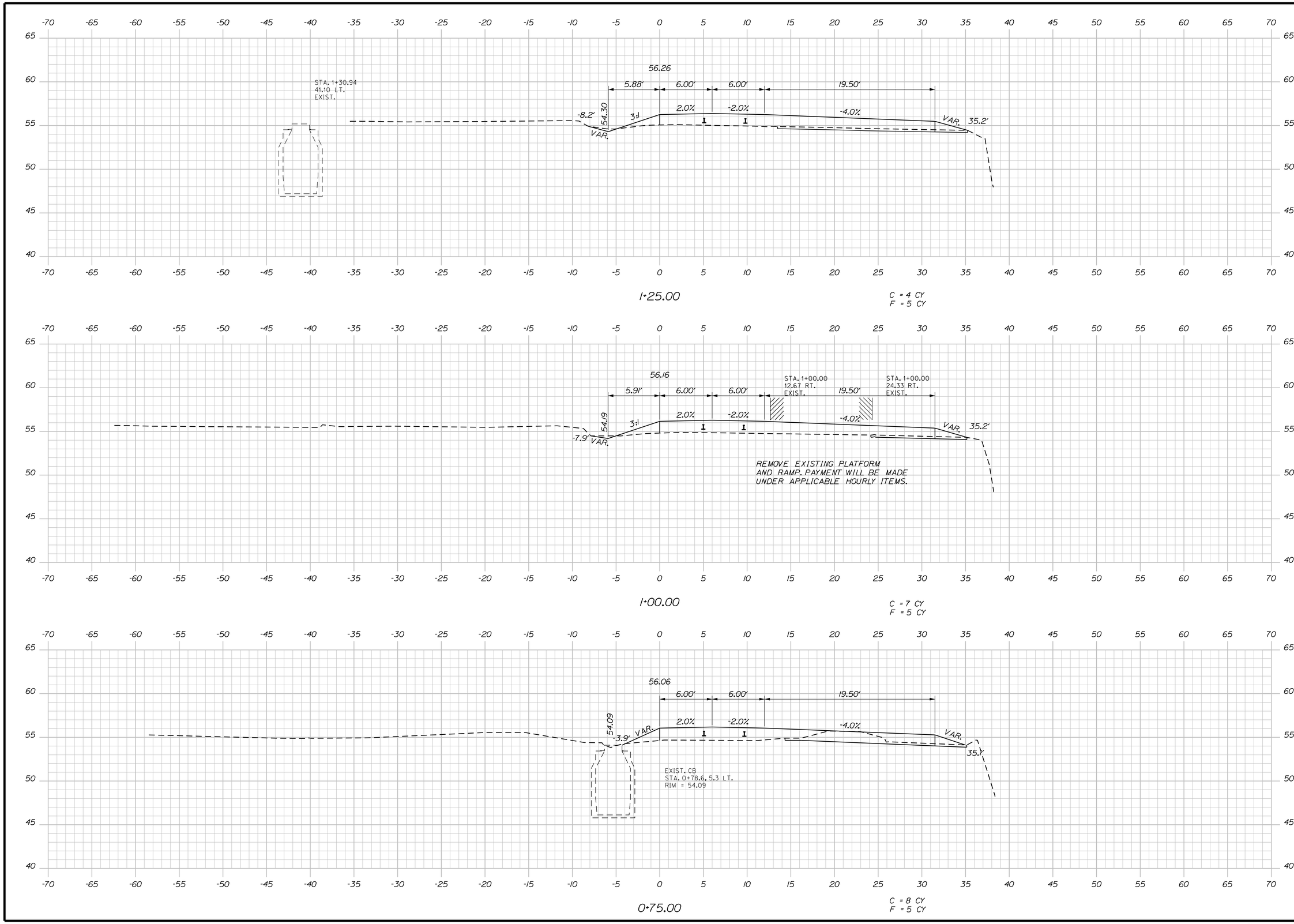
SHEET NUMBER

160

OF 172

Sta. 0+00.00 to Sta. 0+50.00

Filename: ...\160_XSECT_0+00_001.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

	BY	DATE
PROJ. MANAGER	ERNIE MARTIN	
DESIGN-DETAILED	JLE	1-18
CHECKED-REVIEWED	ALG	1-18
DESIGN2-DETAILED2	ALG	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HALLOWELL
TEMPORARY PARKING

CROSS SECTIONS

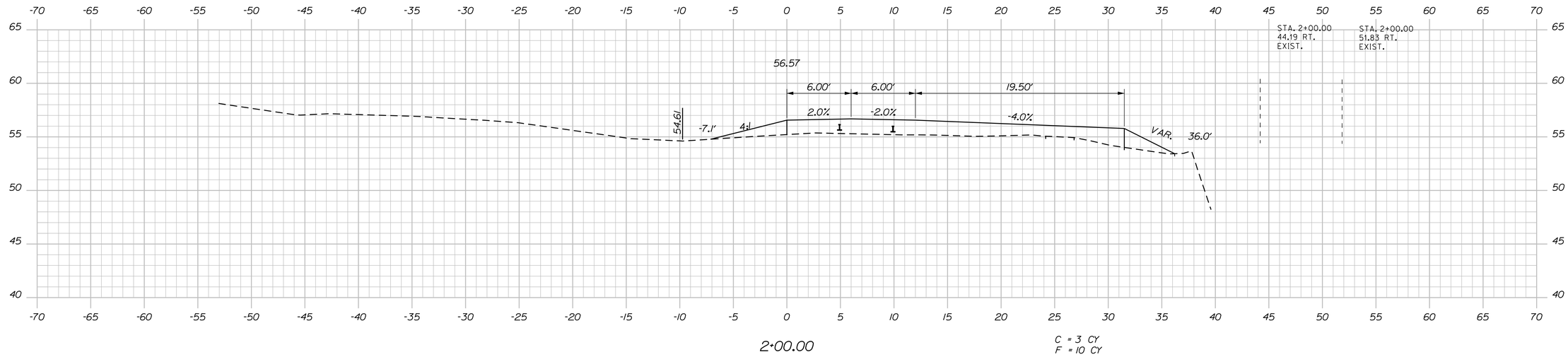
SHEET NUMBER

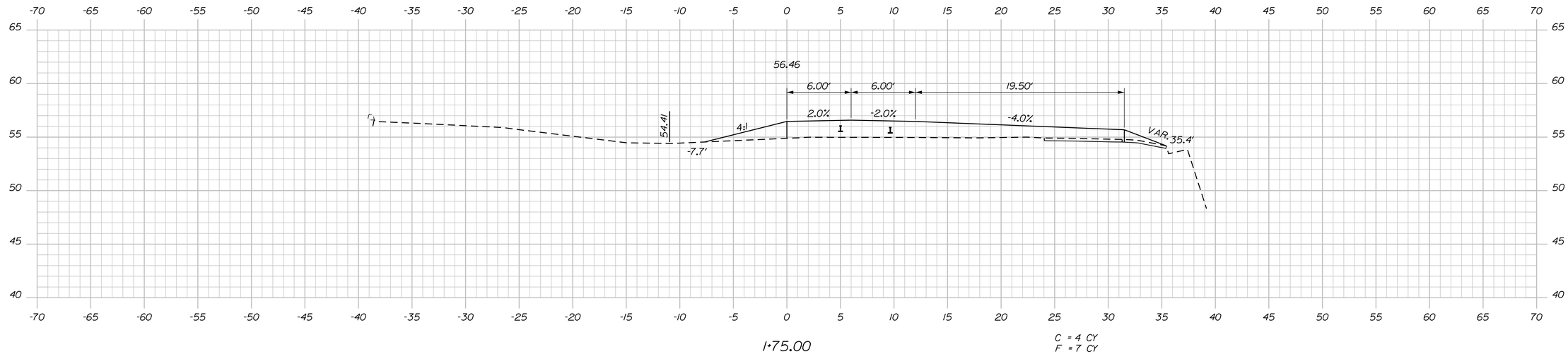
161

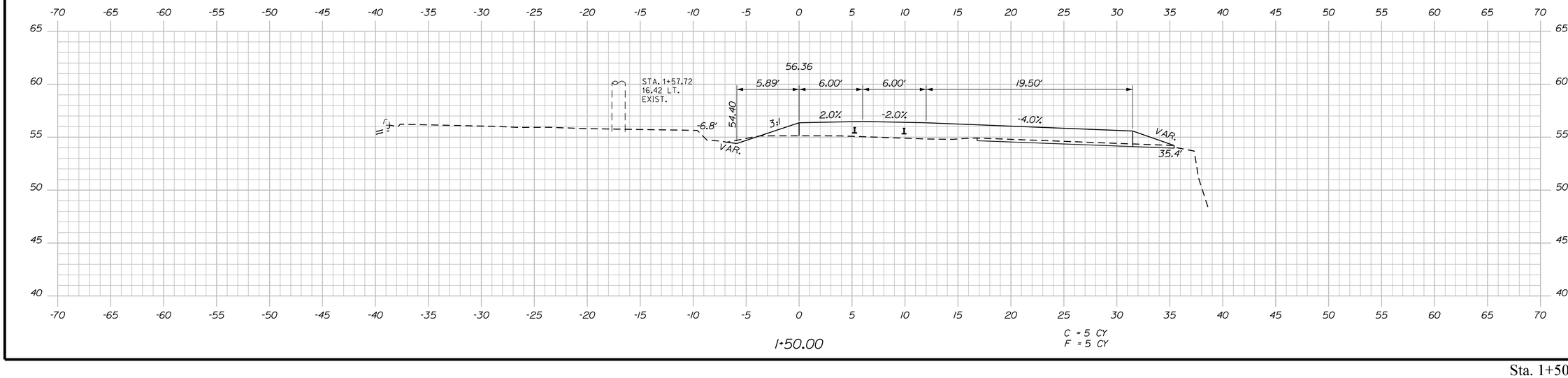
OF 172

Sta. 0+75.00 to Sta. 1+25.00

Filename: ...\161_XSECT_0+75_002.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

			SIGNATURE
			7960
			P.E. NUMBER
			1/12/18
			DATE

			DATE
PROJ. MANAGER	ERNIE MARTIN	BY	
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
TEMPORARY PARKING

CROSS SECTIONS

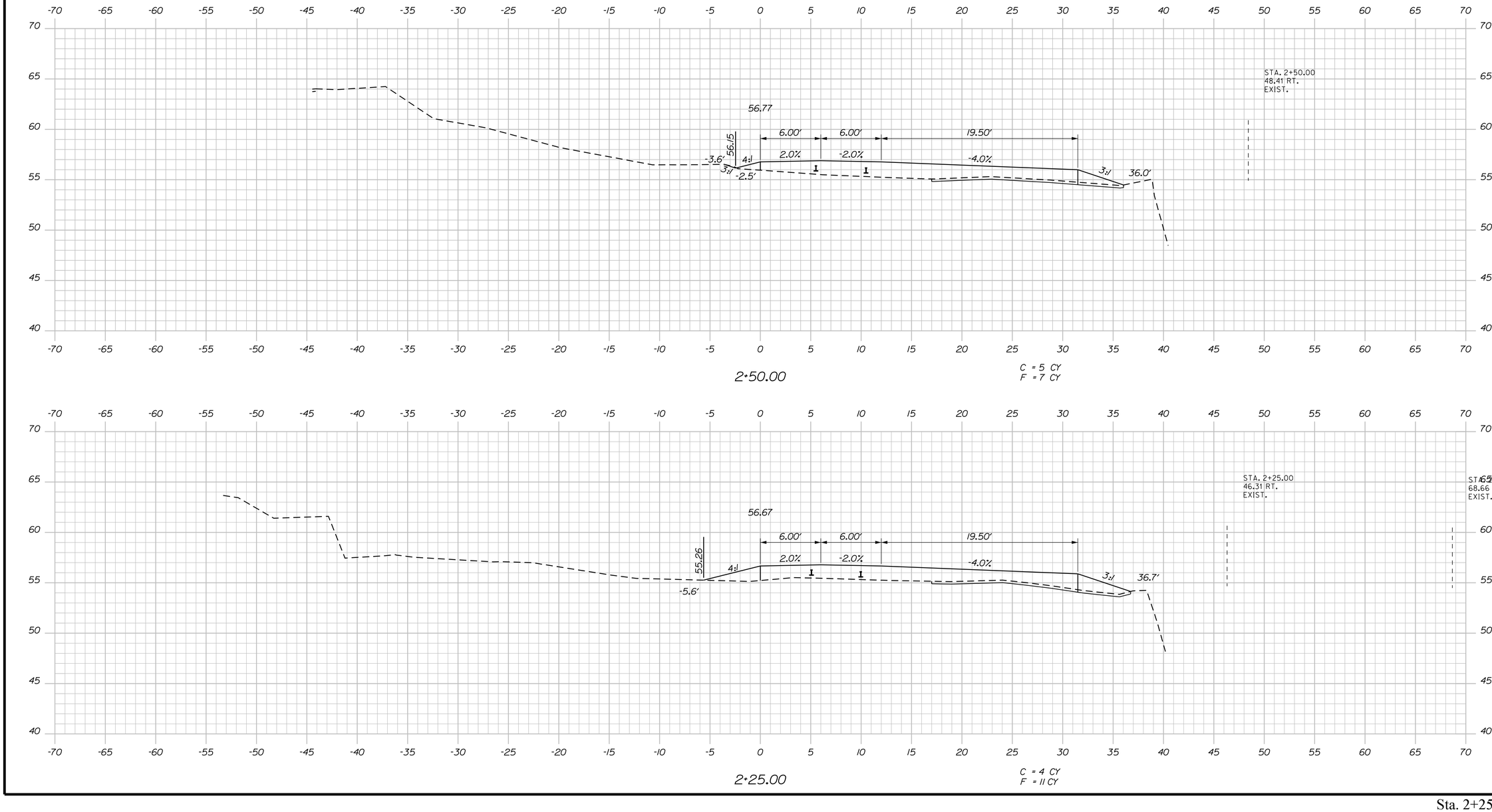
SHEET NUMBER

162

OF 172

Sta. 1+50.00 to Sta. 2+00.00

Filename: ...\162_XSECT_1+50_003.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER ERNIE MARTIN		
DESIGN-DETAILED ALG	JLE	1-18
CHECKED-REVIEWED ALG		1-18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

7960
P.E. NUMBER

1/12/18
DATE

HALLOWELL
TEMPORARY PARKING

CROSS SECTIONS

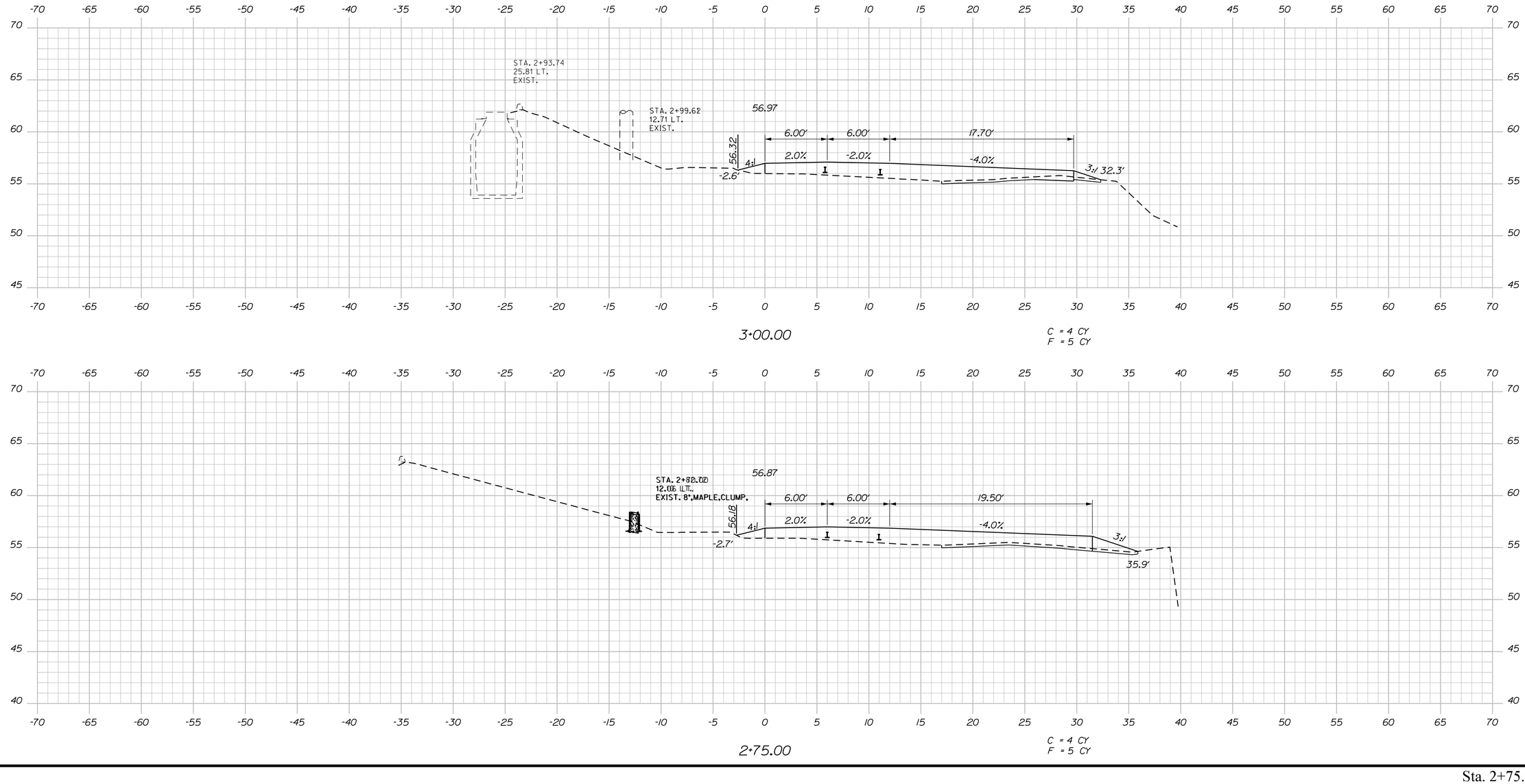
SHEET NUMBER

163

OF 172

Sta. 2+25.00 to Sta. 2+50.00

Filename: ...\163_XSECT_2+25_004.dgn Division: HIGHWAY Username: common Date:1/22/2018



Sta. 2+75.00 to Sta. 3+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L
EASON
No. 7960
LICENSED
PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

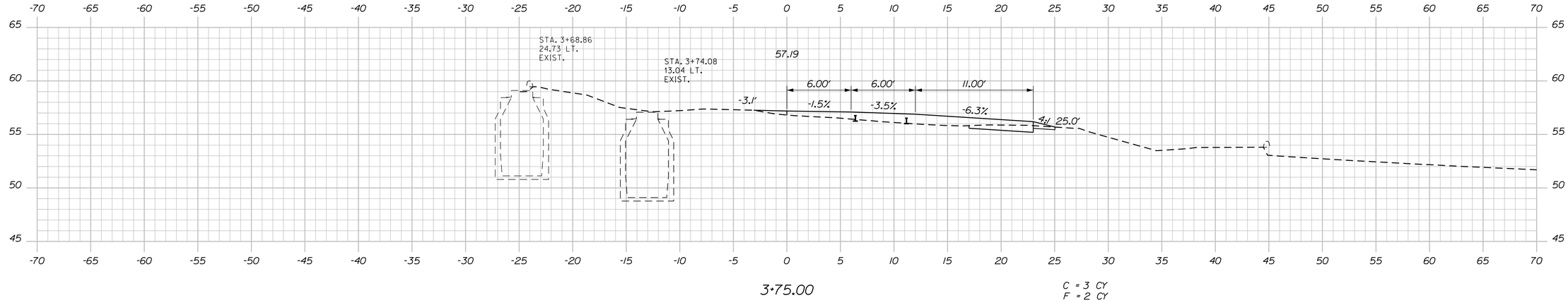
SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

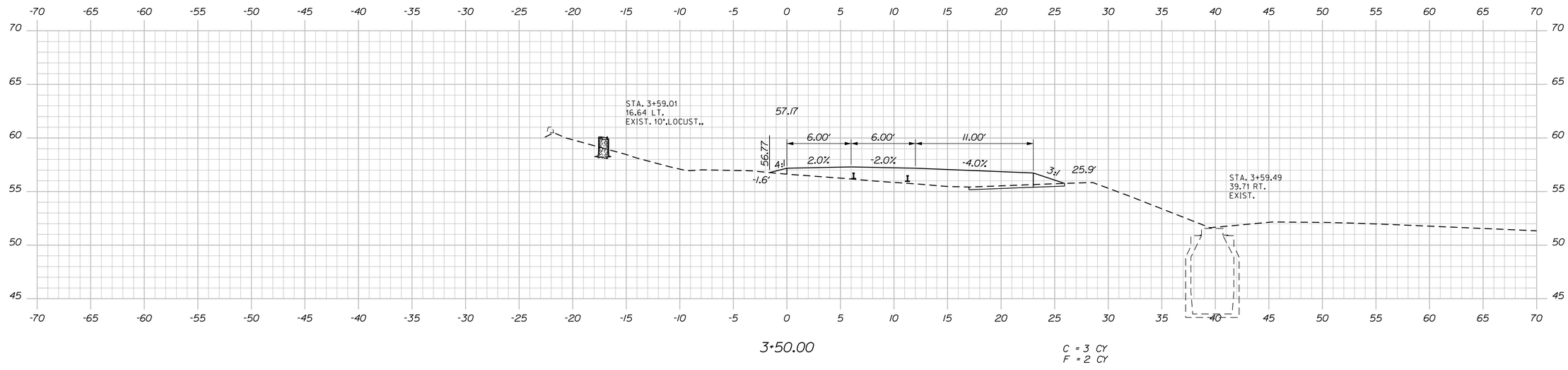
HALLOWELL
TEMPORARY PARKING

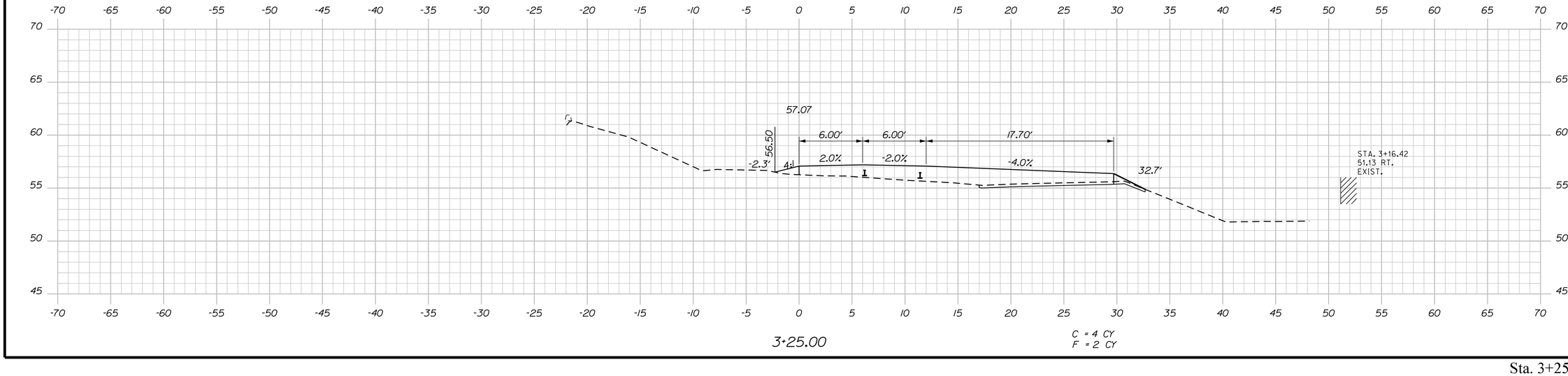
CROSS SECTIONS

SHEET NUMBER
164
OF 172

Filename: ...\164_XSECT_2+75_005.dgn Division: HIGHWAY Username: common Date:1/22/2018







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No 7960
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HALLOWELL
TEMPORARY PARKING

CROSS SECTIONS

SHEET NUMBER

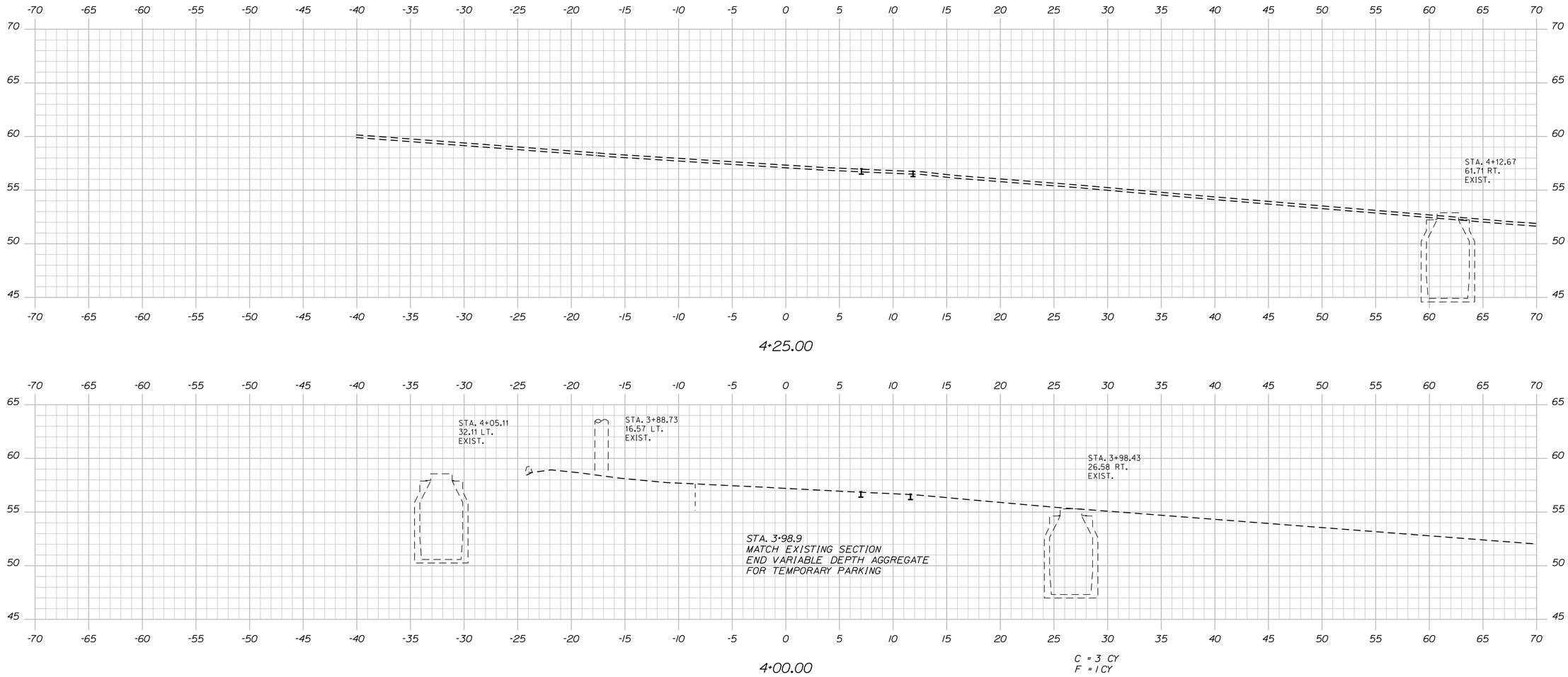
165

OF 172

Sta. 3+25.00 to Sta. 3+75.00

Filename: ...\165_XSECT_3+25_006.dgn Division: HIGHWAY Username: common Date:1/22/2018

Filename: ...\166_XSECT_4+00_007.dgn Division: HIGHWAY Username: common Date:1/22/2018



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1862(200)

WIN
18622.00

HIGHWAY PLANS

STATE OF MAINE
JAMES L. EASON
No. 7960
REGISTERED PROFESSIONAL ENGINEER

		BY	DATE
PROJ. MANAGER	ERNIE MARTIN		
DESIGN-DETAILED	ALG	JLE	1-18
CHECKED-REVIEWED	ALG		1-18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
7960
P.E. NUMBER
1/12/18
DATE

HALLOWELL
TEMPORARY PARKING

CROSS SECTIONS

SHEET NUMBER

166

OF 172

Sta. 4+00.00 to Sta. 4+25.00

MATCH LINE SHT. W4
SHT. W1

TEMPLE STREET

CONVENEANE

ACADEMY

PERLEY LANE

WATER STREET RTE 27/201

193 WATER

191 WATER

181 WATER

175 WATER

173 WATER

171 WATER

200 WATER

INSTALL APPROX. 110 LF OF 8" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL NEW 1" DIA. WATER SERVICE PER WATER DISTRICT STANDARDS. (TYP)

INSTALL NEW 6" DIA. FIRE SERVICE PER WATER DISTRICT STANDARDS. (TYP)

INSTALL APPROX. 55 LF OF 12" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL 12"X6" MJ TEE, 6" MJ GATE VALVE, APPROX. 25 LF OF 6" DIA. CLASS 52 CLDI WATERMAIN AND HYDRANT WITH THRUST BLOCKS.

INSTALL (2) 12" DIA. 45° MJ BENDS WITH THRUST BLOCKS

INSTALL APPROX. 470 LF OF 12" DIA. CLASS 52 CLDI WATERMAIN FROM STA. 11+45 TO 16+00.

CONTRACTOR SHALL REMOVE EXISTING HYDRANT AND DELIVER TO WATER DISTRICT.

CONTRACTOR SHALL REMOVE EXISTING HYDRANT AND DELIVER TO WATER DISTRICT.

INSTALL 12"X6" MJ TEE, 6" MJ GATE VALVE, APPROX. 25 LF OF 6" DIA. CLASS 52 CLDI WATERMAIN AND HYDRANT WITH THRUST BLOCKS.

INSTALL 12"X6" MJ TEE, 6" MJ GATE VALVE, APPROX. 25 LF OF 6" DIA. CLASS 52 CLDI WATERMAIN AND HYDRANT WITH THRUST BLOCKS.

INSTALL 12" X 6" MJ REDUCER.

NEW 8" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL 8" DIA. GATE VALVE WITH BOX.

INSTALL (2) 12" DIA. GATE VALVES WITH BOXES.

NEW 6" DIA. CLASS 52 CLDI WATERMAIN.

6" DI WATER

NEW 12" DIA. CLASS 52 CLDI WATERMAIN.

EXISTING 6" DIA. D.I. WATER MAIN.

INSTALL 12"x8" MJ TEE WITH THRUST BLOCK

INSTALL 8" DIA. M.J. CAP W/ THRUST BLOCK.

INSTALL 2-6" DIA. 45° M.J. BENDS W/ CONCRETE THRUST BLOCKS.

INSTALL 6" DIA. SOLID SLEEVE COUPLING.

EXISTING 6" DI WATER

INSTALL 12x6 M.J. REDUCER AND 6" DIA. SOLID SLEEVE COUPLING FOR CONNECTION TO EXISTING WATER MAIN

INSTALL 6" DIA. M.J. CAP.

INSTALL APPROX. 45 LF OF 12" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL (2) 45° MJ ELLS WITH THRUST BLOCKS

6" DI WATER

NEW 12" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL 12x12 M.J. TEE WITH THRUST BLOCK

INSTALL (3) 12" DIA. GATE VALVES WITH BOXES

MATCH LINE SHT. W1
SHT. W2

LEGEND:

△	– ANGLE POINT		– BUILDING
○PP	– UTILITY POLE	>----<	– CULVERT
	– HYDRANT	———	– ASPHALT ROAD
Ⓢ	– MANHOLE	- - - -	– GRAVEL ROAD
	– TREE	——W——	– EXIST. WATER
⊗	– GATE VALVE	——S——	– EXIST. SEWER
▼	– TBM	——T——	– UNDERGROUND TEL.
▥	– CATCH BASIN	——UE——	– UNDERGROUND ELEC.
⊠	– TEST PIT	——SD——	– STORM DRAIN
⊕	– TEST BORING	—X—X—	– FENCE
———	– EXIST. CONTOUR	———	– PROPOSED CONTOUR

BASE MAP INFORMATION TAKEN FROM STATE OF MAINE, DEPARTMENT OF TRANSPORTATION PROJECT: WATER STREET, HALLOWELL, MAINE PROJECT # STP-1862(200)X

No.	Revisions	Date	App'd.
1	ADDED REVISED STORM DRAIN DESIGN	9/26/17	RSP

WATER MAIN REPLACEMENT

HALLOWELL WATER DISTRICT — HALLOWELL, MAINE

WATER STREET RTE 27/201

STATE OF MAINE — RICHARD S. PERKINS — No. 9265 — LICENSED PROFESSIONAL ENGINEER

PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

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10 Common St. Waterville, Me. 04901 (207) 873-5164

Drawn By: BB	Scale: 1" = 25'-0"
Checked By: AEH	Date: 9/25/17
Approved By: RSP	Date: 9/25/17
19-16-waterdesignfinal-2.dwg	Project No. 19-16-hallowell

Sheet No. W1 Of 6

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INSTALL APPROX. 55 LF OF 12" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL APPROXIMATELY 430 LF OF 12" DIA. CLASS 52 CLDI WATER MAIN. FROM STA. 16+00 TO 20+30

INSTALL NEW 1" DIA. WATER SERVICE PER WATER DISTRICT STANDARDS. (TYP)

INSTALL APPROXIMATELY 220 LF OF 12" DIA. CLASS 52 CLDI WATER MAIN FROM STA. 20+80 TO 23+00.

INSTALL APPROXIMATELY 35 LF OF 4" DIA. CLASS 52 CLDI FIRE SERVICE. (1)4" DIA. GATE VALVE W/BOX, (1)12x6 TEE W/ (1)6x4 M.J. REDUCER. TIE INTO EXISTING 4" SERVICE W/ (1) 4" DIA. M.J. SOLID SLEEVE COUPLING.

INSTALL NEW 1 1/2" DIA. WATER SERVICE PER WATER DISTRICT STANDARDS.

EXISTING 8" DIA. VALVE TO REMAIN.
TOP OF PIPE @ 5.11'
BOTTOM OF PIPE @ 5.81'

EXISTING VALVE TO BE REMOVED.

INSTALL 12" MJ DI SOLID SLEEVE (IF NEEDED)TO CONNECT TO EXISTING WATER MAIN

EXISTING 12" DIA. VALVE TO REMAIN.
TOP OF PIPE @ 5.26'
BOTTOM OF PIPE @ 6.31'

EXISTING 12" DIA. VALVE TO REMAIN.
TOP OF PIPE @ 5.25'
BOTTOM OF PIPE @ 6.27'

EXISTING 12" DIA. WATER MAIN.

INSTALL 12" MJ DI SOLID SLEEVE (IF NEEDED)TO CONNECT TO EXISTING WATER MAIN

EXISTING 12" DIA. VALVE TO REMAIN.
TOP OF PIPE @ 5.33'
BOTTOM OF PIPE @ 6.4'

LEGEND:

– ANGLE POINT	– BUILDING
– UTILITY POLE	– CULVERT
– HYDRANT	– ASPHALT ROAD
– MANHOLE	– GRAVEL ROAD
– TREE	– EXIST. WATER
– GATE VALVE	– EXIST. SEWER
– TBM	– UNDERGROUND TEL.
– CATCH BASIN	– UNDERGROUND ELEC.
– TEST PIT	– STORM DRAIN
– TEST BORING	– FENCE
– EXIST. CONTOUR	– PROPOSED CONTOUR

BASE MAP INFORMATION TAKEN FROM STATE OF MAINE, DEPARTMENT OF TRANSPORTATION PROJECT: WATER STREET, HALLOWELL, MAINE PROJECT # STP-1862(200)X

No.	Revisions	Date	App'd.
1	ADDED REVISED STORM DRAIN DESIGN	9/26/17	RSP

WATER MAIN REPLACEMENT

HALLOWELL WATER DISTRICT — HALLOWELL, MAINE

WATER STREET RTE 27/201

AEHodsdon CONSULTING ENGINEERS
10 Common St. Waterville, Me. 04901 (207) 873-5164

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STATE OF MAINE — BECKY S. PERKINS — NO. 9265 — LICENSED PROFESSIONAL ENGINEER — PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

Drawn By:	BB	Scale:	1" = 25'-0"
Checked By:	AEH	Date:	9/28/17
Approved By:	RSP	Date:	9/22/17
19-16-waterdesignfinal-2.dwg		Project No.	19-16-hallowell

Sheet No. W2 Of 6

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INSTALL 12" X 10" MJ REDUCER AND 10" SOLID SLEEVE TO CONNECT TO EXISTING WATERMAIN

INSTALL 10" DIA. CAP.

INSTALL 2-12" DIA. 45° BENDS WITH CONCRETE THRUST BLOCKS AND RESTRAINED.

INSTALL 3-12" DIA GATE VALVES W/ BOXES.

NEW 12" DIA. CLASS 52 CLDI WATERMAIN.

INSTALL 12"x12" DIA. M.J. TEE W/ CONCRETE THRUST BLOCK.

NEW 12" DIA. C.L.D.I. CLASS 52 WATERMAIN.

INSTALL 12"x6" DIA. M.J. TEE W/ CONCRETE THRUST BLOCK.

NEW 6" DIA. C.L.D.I. CLASS 52 FIRE SERVICE LINE W/ 6" DIA. GATE VALVE W/BOX.

INSTALL NEW 1" DIA. WATER SERVICE PER WATER DISTRICT STANDARDS. (TYP)

INSTALL APPROX. 40 LF OF 12" DIA. CLASS 52 CLDI WATER MAIN.

INSTALL 12"X6" MJ TEE, 6" MJ GATE VALVE, APPROX. 20 LF OF 6" DIA. CLASS 52 CLDI BRANCH AND HYDRANT WITH THRUST BLOCKS.

EXISTING 12" DIA. GATE VALVES TO REMAIN. CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS APPROVED BY FIELD INSPECTOR/ENGINEER.

INSTALL APPROXIMATELY 670 LF OF 12" DIA. CLASS 52 CLDI WATER MAIN FROM STA. 23+00 TO 29+75

SECOND STREET

WINTHROP STREET

WATER STREET - RTE 27/201

WATERSTONE LANE

Service From Winthrop St.

Abandoned 6"

Discontinued?

107 WATER

103 WATER svc. from 2nd St.

89 WATER

81 WATER

77 WATER

73 WATER

69 WATER

59 WATER

110 WATER

102 - 108 WATER

100 WATER

MATCH LINE SHT. W2

MATCH LINE SHT. W3

LEGEND:

△	– ANGLE POINT	▨	– BUILDING
⌓	– UTILITY POLE	>----<	– CULVERT
☆	– HYDRANT	———	– ASPHALT ROAD
Ⓜ	– MANHOLE	- - - -	– GRAVEL ROAD
❁	– TREE	—W—	– EXIST. WATER
⊗	– GATE VALVE	—S—	– EXIST. SEWER
▼	– TBM	—T—	– UNDERGROUND TEL.
▩	– CATCH BASIN	—UE—	– UNDERGROUND ELEC.
⊠	– TEST PIT	—SD—	– STORM DRAIN
⊕	– TEST BORING	—x—x—	– FENCE
———	– EXIST. CONTOUR	———	– PROPOSED CONTOUR

BASE MAP INFORMATION TAKEN FROM STATE OF MAINE, DEPARTMENT OF TRANSPORTATION PROJECT: WATER STREET, HALLOWELL, MAINE PROJECT # STP-1862(200)X

No.	Revisions	Date	App'd.
1	ADDED REVISED STORM DRAIN DESIGN	9/26/17	RSH

WATER MAIN REPLACEMENT

HALLOWELL WATER DISTRICT — HALLOWELL, MAINE

WATER STREET RTE 27/201

AEHodsdon CONSULTING ENGINEERS
10 Common St. Waterville, Me. 04901
(207) 873-5164

STATE OF MAINE — ROBERT S. HODSDON — No. 9285 — LICENSED PROFESSIONAL ENGINEER — PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

Drawn By:	BB	Scale:	1" = 25'-0"
Checked By:	RSH	Date:	9/26/17
Approved By:	RSH	Date:	9/26/17
19-16-waterdesignfinal-2.dwg		Project No.	19-16-hallowell

Sheet No. W3 Of 6

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MATCH LINE SUMMER STREET
SHT. W5
SHT. W4
EXISTING VALVES TO REMAIN.
INSTALL APPROX. 50 L.F. OF 8" DIA. C.L.D.I. CLASS 52 WATERMAIN.
EXISTING HYDRANT SHALL BE REMOVED AND DELIVERED TO WATER DISTRICT.
INSTALL NEW HYDRANT ASSEMBLY.
INSTALL 8"x8" DIA. M.J. TEE W/ CONCRETE THRUST BLOCK.
INSTALL 2-8" DIA. M.J. GATE VALVES W/ BOXES.
NEW 8" DIA. C.L.D.I. CLASS 52 WATER MAIN.
INSTALL APPROX. 50 L.F. OF 8" DIA. DR 11 DIPS HDPE WATERMAIN IN STEEL SLEEVE
INSTALL APPROX. 100 L.F. OF 8" DIA. C.L.D.I. CLASS 52 WATERMAIN.
INSTALL 8" SOLID SLEEVE TO CONNECT TO EXISTING WATER MAIN.
NEW 8" DIA. C.L.D.I. CLASS 52 WATER MAIN.
INSTALL 40 L.F. OF 16" DIA. SCHD 40 WELDED STEEL CARRIER PIPE. (20' EITHER SIDE OF CENTERLINE OF TRACK)
NEW 8" DIA. C.L.D.I. CLASS 52 WATER MAIN.
INSTALL 6" DIA. CAP WITH CONCRETE THRUST BLOCKS AND RESTRAINED.
INSTALL 8" X 6" MJ REDUCER AND 6" SOLID SLEEVE TO CONNECT TO EXISTING WATER MAIN
INSTALL (2) 45° MJ ELLS WITH THRUST BLOCKS
INSTALL 8" DIA. M.J. GATE VALVE W/ BOX
INSTALL PE TO DI FUSED M.J. ADAPTOR
16" DIA. STEEL SCHD 40 WELDED STEEL CARRIER PIPE.
EXISTING CENTERLIE OF RAIL ROAD TRACK
20'-0"
20'-0"
NEW 8" DIA. OR 11 HDPE DIPS WATER MAIN INSTALLED IN CARRIER PIPE WITH ISOLATOR SPACERS, 24" O.C. TO CENTER PIPE.
INSTALL END SEALS EACH END OF PIPE.
INSTALL PE TO DI FUSED M.J. ADAPTOR
INSTALL APPROX. 275 L.F. OF 8" DIA. C.L.D.I. CLASS 52 WATER MAIN FROM STA. 901+10 TO 903+75.
10' MIN. WATER/SEWER SEPARATION (TYP)
2 CHESTNUT SERVICE OFF 2ND ST.
INSTALL (2) 45° MJ ELLS WITH THRUST BLOCKS
INSTALL (2) 8" DIA. GATE VALVES WITH BOXES
NEW 8" DIA. C.L.D.I. CLASS 52 WATER MAIN.
INSTALL 8 x 8 MJ TEE WITH THRUST BLOCK
INSTALL 8" X 6" MJ REDUCER AND 6" SOLID SLEEVE TO CONNECT TO EXISTING WATER MAIN
INSTALL APPROX. 215 L.F. OF 8" DIA. C.L.D.I. CLASS 52 WATERMAIN.
7 TEMPLE - Missing House?
4 TEMPLE
MATCH LINE
SHT. W4
SHT. W1
CHESTNUT STREET
SECOND STREET
TEMPLE STREET
ACADEMY STREET
SECOND ST
133 SECOND
131 SECOND
129 SECOND
127 SECOND
132 SECOND
130 SECOND
128 SECOND
140 SECOND
134/136 SECOND
INV. OUT = 15.08
193 WATER
191 WATER
900+00
901+00
902+00
903+00
904+00
905+00
906+00
100+00
101+00
102+00
103+00
200+00
201+00
202+00
203+00
203+51

LEGEND:

ANGLE POINT	BUILDING
UTILITY POLE	CULVERT
HYDRANT	ASPHALT ROAD
MANHOLE	GRAVEL ROAD
TREE	EXIST. WATER
GATE VALVE	EXIST. SEWER
TBM	UNDERGROUND TEL
CATCH BASIN	UNDERGROUND ELEC.
TEST PIT	STORM DRAIN
TEST BORING	FENCE
EXIST. CONTOUR	PROPOSED CONTOUR

BASE MAP INFORMATION TAKEN FROM STATE OF MAINE, DEPARTMENT OF TRANSPORTATION PROJECT: WATER STREET, HALLOWELL, MAINE PROJECT # STP-1862(200)X

No.	Revisions	Date	App'd.
1	ADDED REVISED STORM DRAIN DESIGN	9/26/17	RSP

WATER MAIN REPLACEMENT

HALLOWELL WATER DISTRICT — HALLOWELL, MAINE

CHESTNUT, TEMPLE & SECOND STREET

STATE OF MAINE — RICKY S. PERSHKEN — No. 9265 — LICENSED PROFESSIONAL ENGINEER — PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

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10 Common St. Waterville, Me. 04901 (207) 873-5164

Drawn By: BB	Scale: 1" = 25'-0"
Checked By: HEH	Date: 9/28/17
Approved By: RSP	Date: 9/28/17
19-16-waterdesignfinal-2.dwg	Project No. 19-16-hallowell

Sheet No. W4 Of 6

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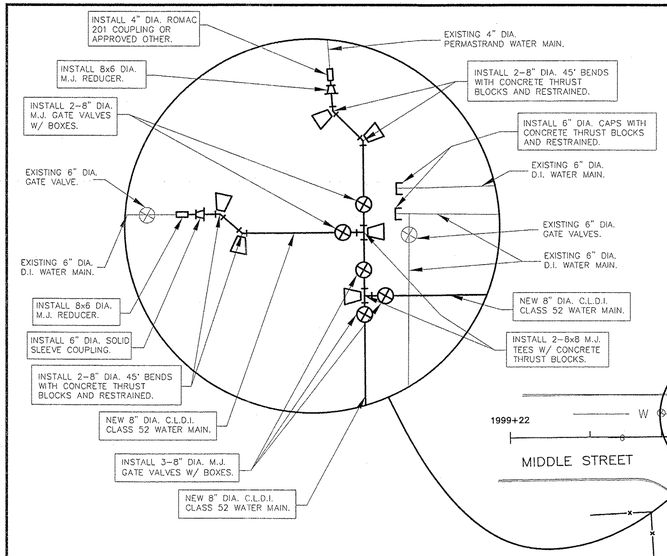

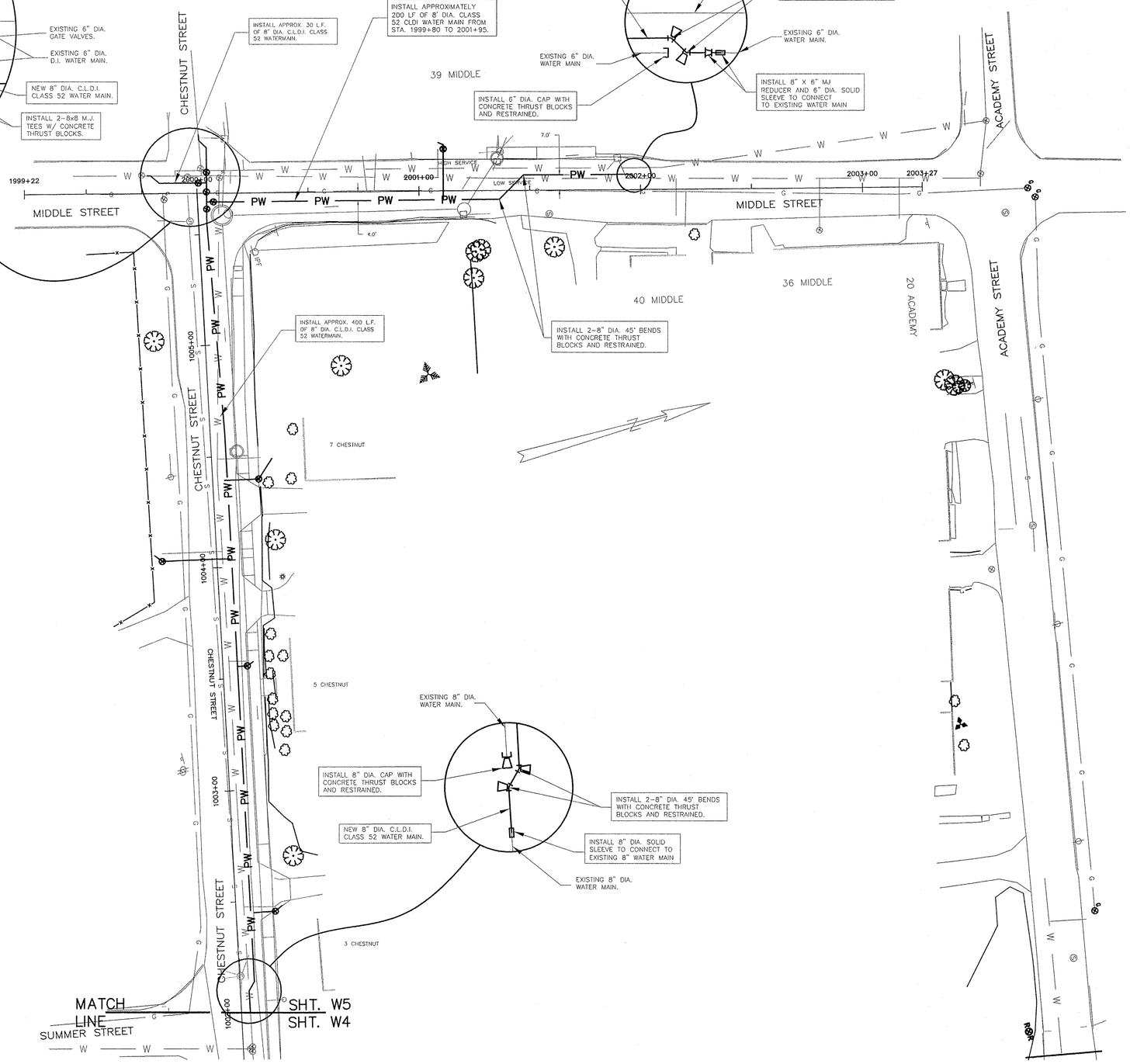

LEGEND:

△ – ANGLE POINT	▨ – BUILDING
– UTILITY POLE	– CULVERT
– HYDRANT	– ASPHALT ROAD
Ⓜ – MANHOLE	– GRAVEL ROAD
– TREE	—W— – EXIST. WATER
⊗ – GATE VALVE	—S— – EXIST. SEWER
▼ – TBM	—T— – UNDERGROUND TEL.
▥ – CATCH BASIN	—UE— – UNDERGROUND ELEC.
⧓ – TEST PIT	—SD— – STORM DRAIN
⊕ – TEST BORING	—X—X— – FENCE
– EXIST. CONTOUR	– PROPOSED CONTOUR

BASE MAP INFORMATION TAKEN FROM STATE OF MAINE, DEPARTMENT OF TRANSPORTATION PROJECT: WATER STREET, HALLOWELL, MAINE PROJECT # STP-1862(200)X

No.	Revisions	Date	App'd.
1	ADDED REVISED STORM DRAIN DESIGN	9/26/17	RSP

WATER MAIN REPLACEMENT

HALLOWELL WATER DISTRICT — HALLOWELL, MAINE

CHESTNUT & MIDDLE STREET

STATE OF MAINE — RICKY S. PERSCHEN — No. 9265 — LICENSED PROFESSIONAL ENGINEER — PRELIMINARY NOT VALID UNLESS DATED AND SEALED

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Checked By: AEH	Date: 9/26/17	
Approved By: RSP	Date: 9/28/17	
19-16-waterdesignfinal-2.dwg	Project No. 19-16-hallowell	

Sheet No. W5 Of 6

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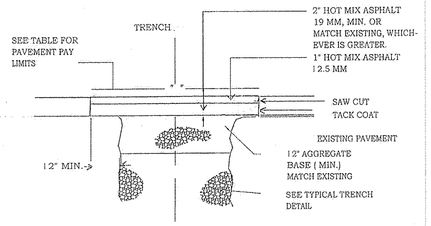
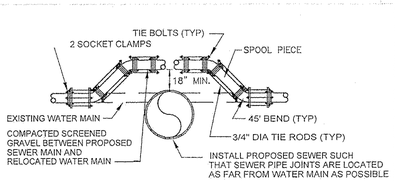


NOTES:
1. INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR.
2. FOR STATE ROADS PAVEMENT THICKNESS SHALL BE 2 1/2" HOT MIX ASPHALT, 19mm MIN OR MATCH EXISTING WHICHEVER IS GREATER, AND 1 1/2" HOT MIX ASPHALT I 2.5mm, MIN.

PAVEMENT PAY LIMITS	
	"W"
PIPE I.D.	(FOR 0' - 10' DEEP)
6" - 15"	7'-0"
I 6" - 21"	8'-0"

"W" SHALL BE INCREASED BY 1'-0" FOR TRENCHES 10' - 15', AND BY 2' -0" FOR TRENCHES 15' - 20' DEEP.

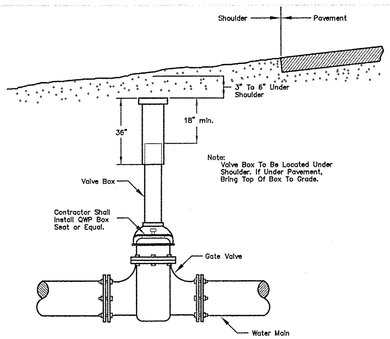
FINAL TRENCH PAVING (WITHOUT OVERLAY)



NOTES:
1. WATER MAIN MATERIALS TO BE CLASS 52 DUCTILE IRON. JOINT RESTRAINT TO BE BY MECHANICAL JOINT WITH RETAINER GLANDS, OR WITH TIE BOLTS AS SHOWN.
2. TIE RODS, TIE BOLTS, SOCKET CLAMPS AND BRIDLES SHALL BE COATED WITH A BITUMINOUS PAINT AFTER ASSEMBLY OR IF NECESSARY PRIOR TO ASSEMBLY.
3. TIE RODS: 10" DIA WATER MAIN OR LARGER - 4 REQUIRED. 8" DIA WATER MAIN OR SMALLER - 2 REQUIRED.
4. EXISTING WATER MAINS TO BE RELOCATED OVER NEW SEWERS WHEREVER SUFFICIENT GROUND COVER EXISTS (5'-6" MINIMUM COVER).

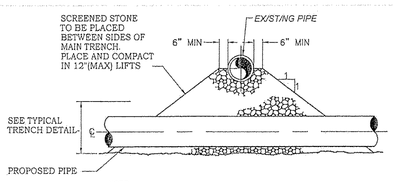
WATER MAIN RELOCATION DETAIL

NTS



Valve Box Detail

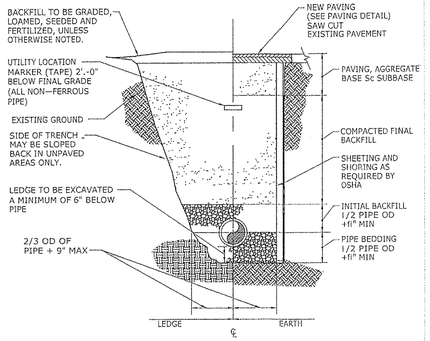
Not To Scale



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

PIPE CROSSING DETAIL

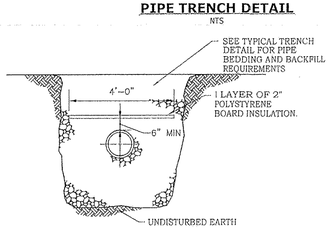
NTS



NOTES:
1. ALL EXCAVATION MUST MEET OSHA STANDARDS
2. INSTALL 3 FOOT LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100' TO PREVENT TRENCH GROUND WATER FROM BEING CHANNELED ALONG BEDDING/INITIAL BACKFILL.
3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.
4. MAINTAIN MINIMUM OF 5'.-6" OF COVER OVER PIPING.

PIPE TRENCH DETAIL

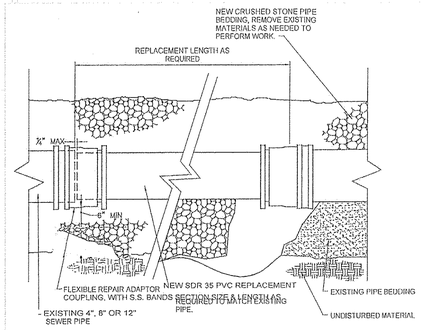
NTS



NOTE:
TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN 5'-6" OR AS DIRECTED BY THE DISTRICT.

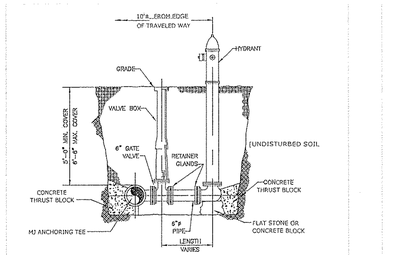
TRENCH PIPE INSULATION DETAIL

NTS



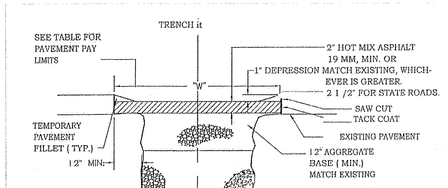
PIPE REPLACEMENT DETAIL

NTS



TYPICAL HYDRANT CONNECTION

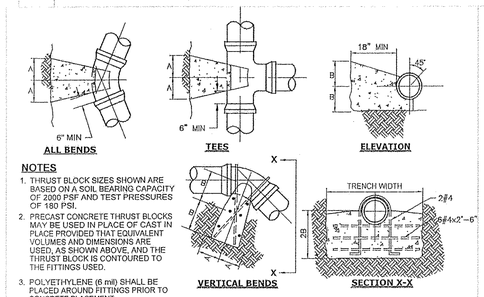
SCALE NTS



PAVEMENT PAY LIMITS	
	"W"
PIPE I.D.	(FOR - 10' DEEP)
6" - 15"	7'-0"
I 6" - 21"	8'-0"

"W" SHALL BE INCREASED BY 1' -0" FOR TRENCHES 10' - 15', AND BY 2' -0" FOR TRENCHES 15' - 20' DEEP.

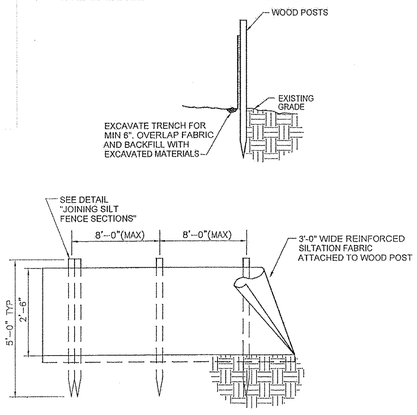
INITIAL TRENCH PAVING (WITHOUT OVERLAY)



PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		VERTICAL BEND (DOWN)	
	A	B	A	B	A	B	A	B	A	B	A	B
6"	15"	12"	12"	9"	9"	6"	6"	6"	12"	12"	24"	21"
8"	20"	15"	14"	12"	9"	9"	9"	6"	18"	12"	33"	24"
10"	21"	21"	18"	15"	15"	9"	9"	9"	20"	18"	40"	27"
12"	27"	24"	23"	15"	15"	12"	12"	9"	25"	18"	48"	30"
16"	37"	30"	30"	21"	21"	15"	13"	12"	32"	24"	57"	36"

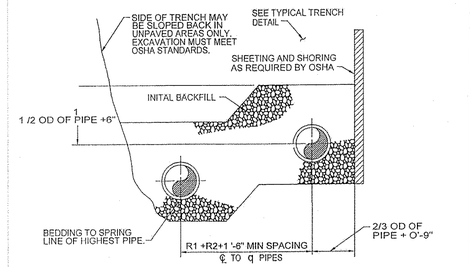
WATER MAIN THRUST BLOCK DETAIL

NTS



SILT FENCE INSTALLATION DETAIL

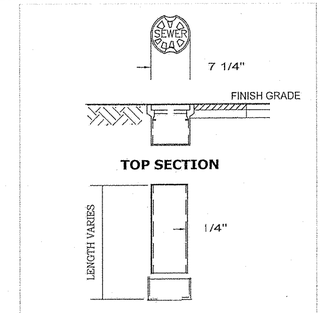
NTS



NOTES: 1. THIS SECTION IS SHOWN FOR TWO PIPES. IT IS TO BE USED FOR ANY NUMBER OF PIPES.
2. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL MATERIALS AND COMPACTED BACKFILL REQUIREMENTS.
3. PIPE SPACING SHOWN IS TYPICAL UNLESS OTHERWISE INDICATED.

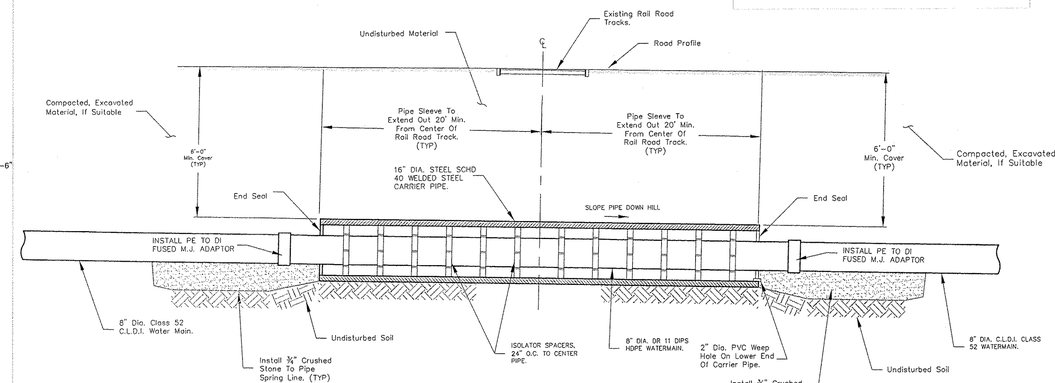
MULTIPLE PIPE TRENCH SECTION

NTS



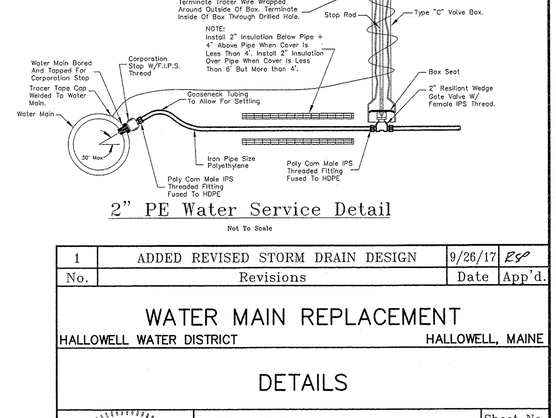
VALVE BOX DETAIL

NTS



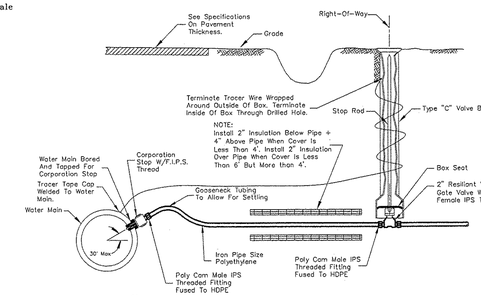
Rail Road Crossing Detail

Not To Scale



FIRE/DOMESTIC SERVICE DETAIL

Not To Scale



2" PE Water Service Detail

Not To Scale

No.	Revisions	Date	App'd.
1	ADDED REVISED STORM DRAIN DESIGN	9/26/17	RSP

WATER MAIN REPLACEMENT

HALLOWELL WATER DISTRICT — HALLOWELL, MAINE

DETAILS

STATE OF MAINE — RICKY S. PERSHKEN — No. 9235 — LICENSED PROFESSIONAL ENGINEER

PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

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AEHodsdon CONSULTING ENGINEERS
10 Common St. Waterville, Me. 04901 (207) 873-5164

Drawn By: BB	Scale: 1" = 25'-0"	Sheet No. W6
Checked By: RSH	Date: 9/28/17	
Approved By: RSP	Date: 9/23/17	
19-16-waterdesignfinal-2.dwg	Project No. 19-16-hallowell	Of 6

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