

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



RICHMOND SAGADAHOC COUNTY

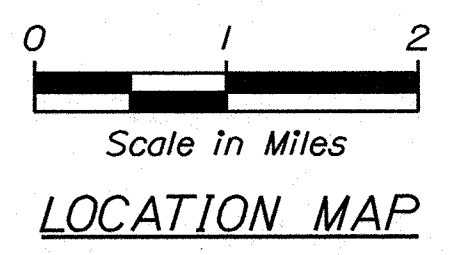
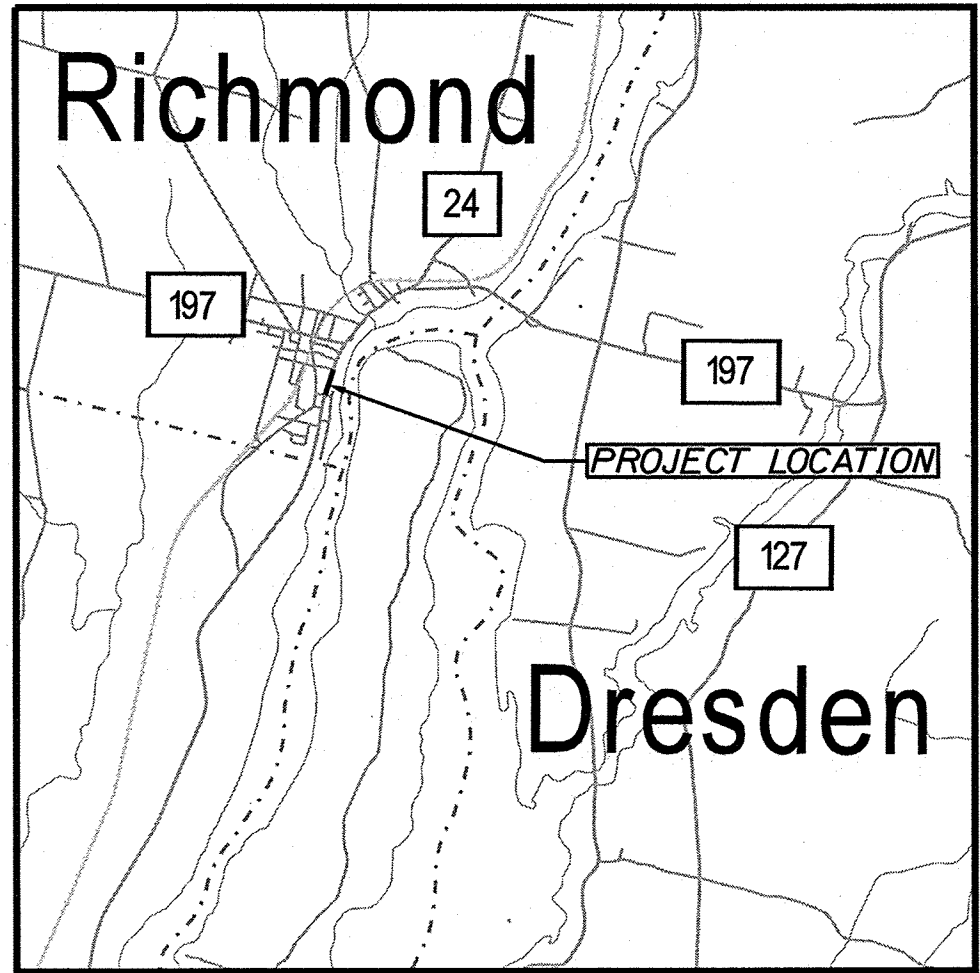
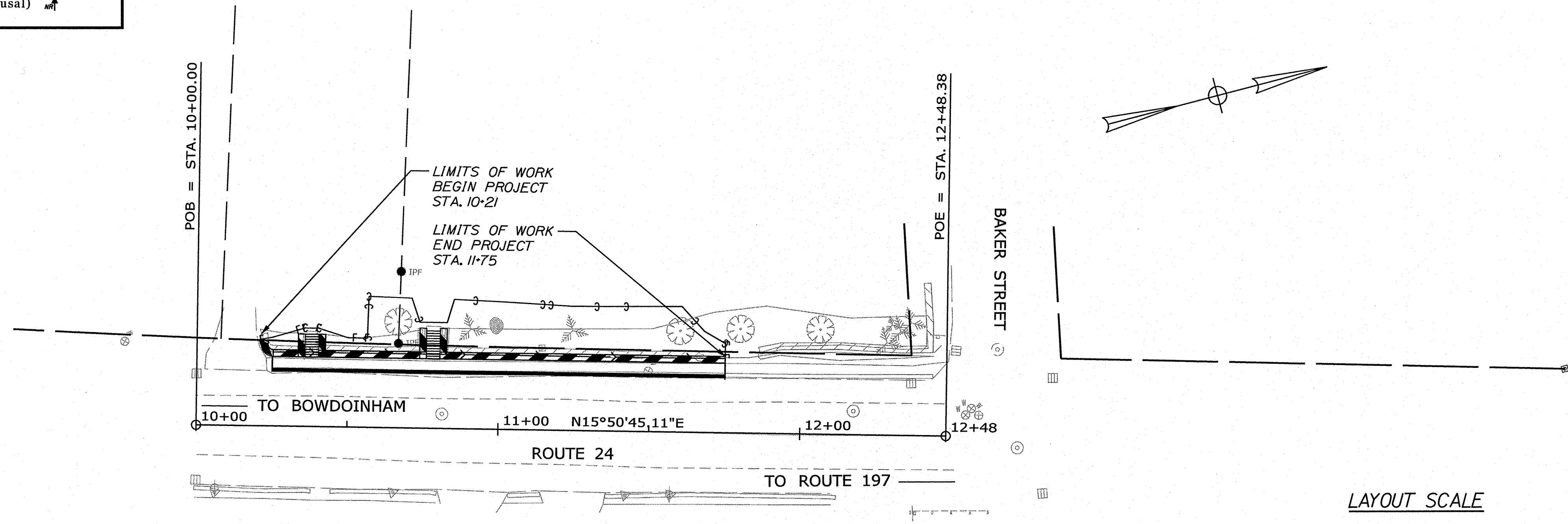
ROUTE 24

STATE PROJECT NO. 23741.00

PROJECT LENGTH : 0.02 MILES

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
General Notes & Typicals	2
General Plan & Profile	3
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PLAN LEGEND			
Town, County, State	-----	Catch Basins	Existing Proposed
Property Lines	-----	Manholes	Existing Proposed
R/W Lines-Existing	-----	Proposed Underdrain	----->
R/W Lines-Proposed	-----	Proposed Ditch	----->
Culvert-Existing	-----	Existing Ditch	----->
Culvert Proposed	-----	Utility Poles	Existing Proposed
Curbing	Existing Proposed	Fire Hydrants	Existing Proposed
Type 1	-----	Existing Water Line	-----
Type 3	-----	Existing San. Sewer	-----
Type 5	-----	Existing San. Sewer Manhole	-----
Outline of Bodies of Water	-----	Guardrail-Existing	-----
Exposed Bedrock	-----	Guardrail-Proposed	-----
Buildings	-----	Guardrail-Cable, Other	-----
Trees	Conifer Deciduous	Centerline-Existing	-----
Tree Line	-----	Centerline-Proposed	-----
Clearing Limit Line	-----	Travelway-Existing	-----
Railroad	-----	Travelway-Proposed	-----
Boring	HB-XXX-###	Probe	P-#. #X
Pavement Core	PC-#	#, # = Depth	
Test Pit	TP-XXX-###	X = W (Weathered Rock)	
		R (Refusal)	
		NR (No Refusal)	



TRAFFIC DATA	
Current (2020) AADT	990
Future (2032) AADT	1,110
DHV - % of AADT	11%
Design Hour Volume	131
% Heavy Trucks (AADT)	3%
Directional Distribution (DHV)	57%
Design Speed (mph)	25 MPH
Functional Class:	Major/Urban Collector
Corridor Priority:	3

PROJECT LOCATION:	LOCATED ON ROUTE 24 APPROXMIATELY 0.02 MILES SOUTH OF BAKER STREET EXTENDING NORTHERLY TO BAKER STREET
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	HIGHWAY MAINTENANCE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER:		3-2-21
CHIEF ENGINEER:		

SIGNATURE:
P.E. NUMBER: 15584
DATE: 3/2/21

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	DOUGLAS COOMBS
DESIGNER	SHANE KELLY
CONSULTANT	SEBAGO TECHNICS, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

RICHMOND ROUTE 24
TITLE SHEET

SHEET NUMBER
1
OF 8

WIN 23741.00 STATE PROJECT NO. 23741.00

Date: 2/14/2021

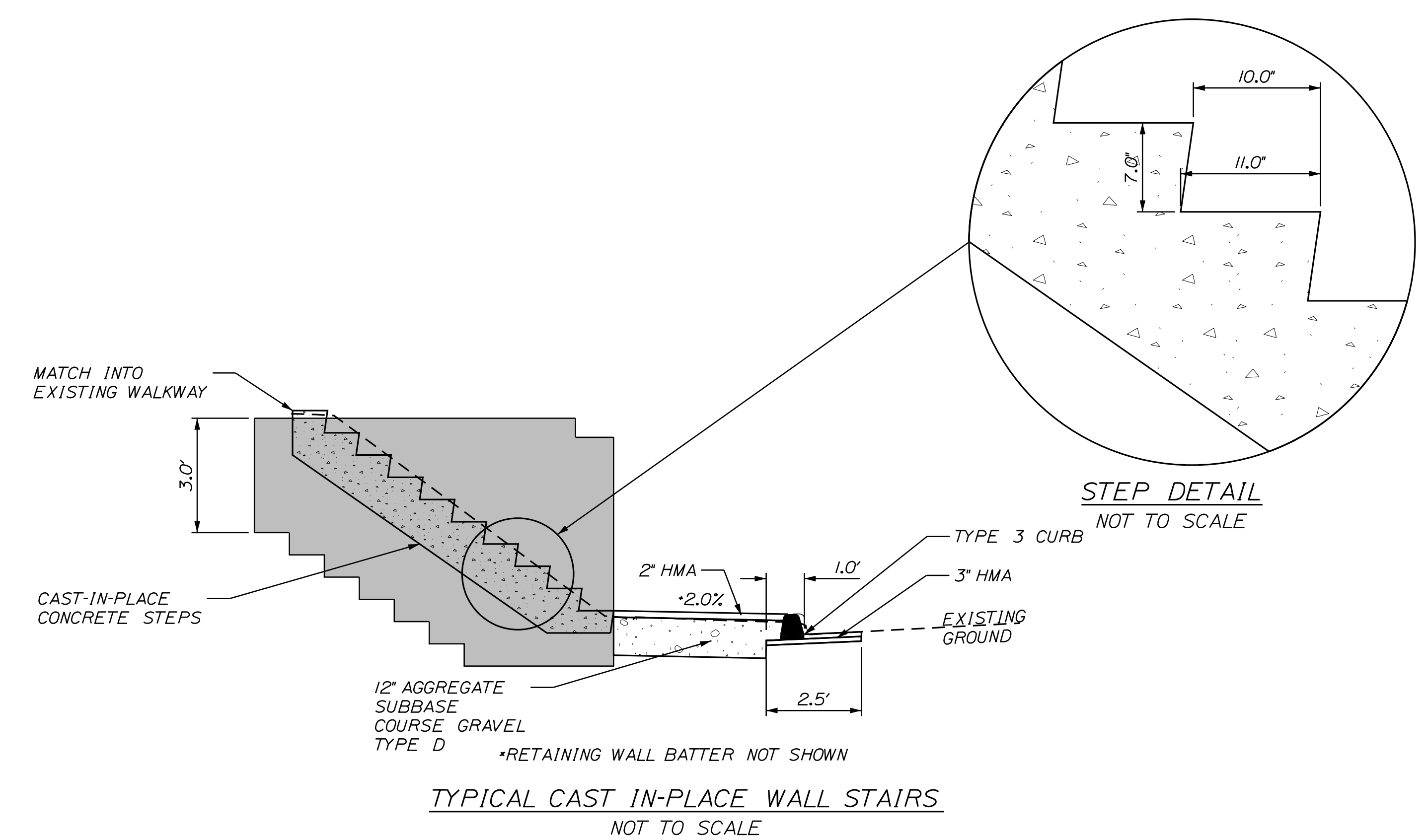
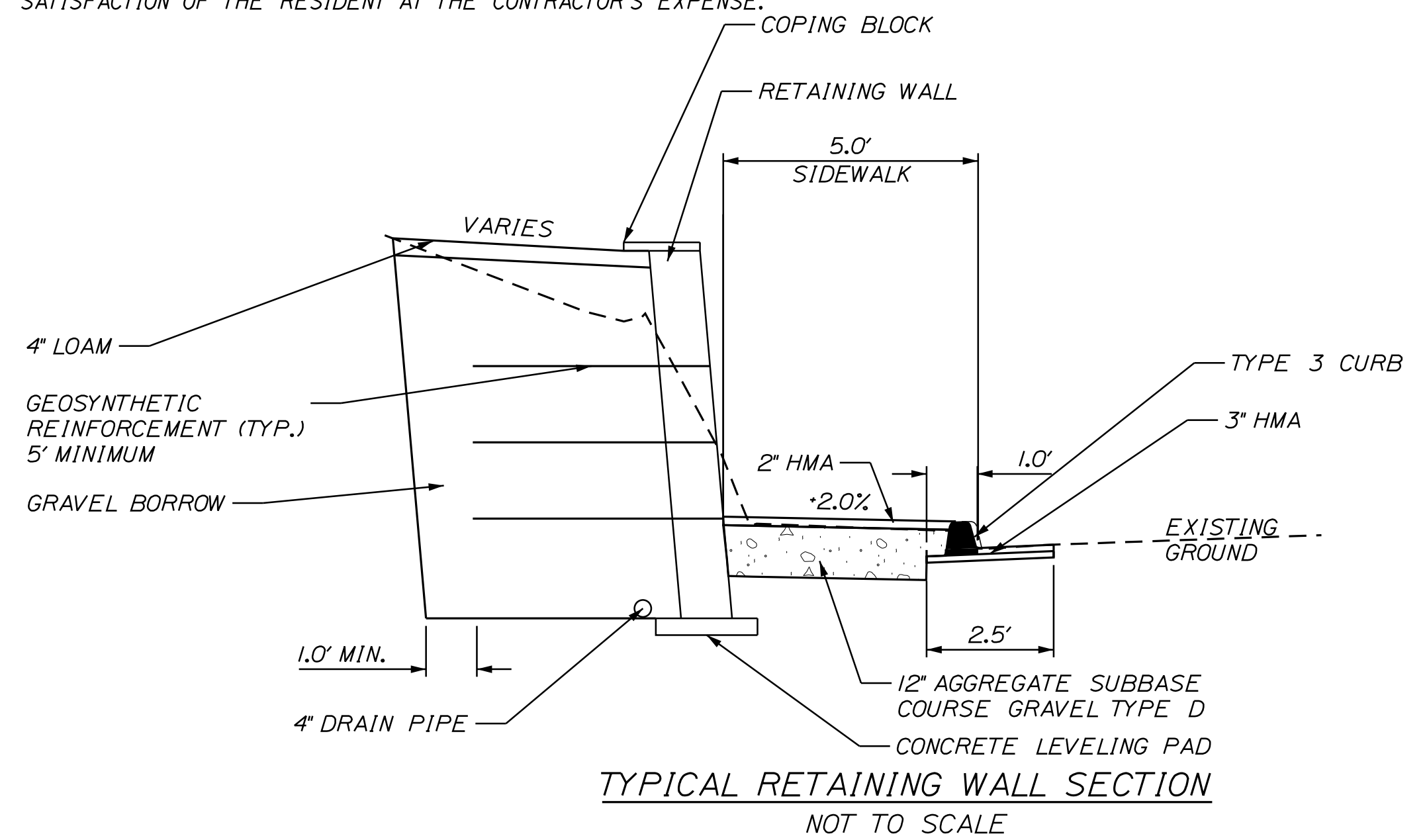
Username: skelly

Division: HIGHWAY

Filename: ... \MSTA\Sheets\001_TITLE.dgn

RETAINING WALL NOTES:

1. THE CONTRACTOR SHALL DESIGN AND FURNISH A WET CAST SMALL LANDSCAPE BLOCK WALL IN ACCORDANCE WITH STANDARD SPECIFICATION 673. THE WET CAST SMALL LANDSCAPE BLOCK WALL SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE AND SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. THE WET CAST SMALL LANDSCAPE BLOCK WALL SHALL BE AN APPROVED SYSTEM FROM THE MAINEDOT QUALIFIED PRODUCTS LIST THAT MEETS THE REQUIREMENTS OF STANDARD SPECIFICATION 673.
3. BACKFILL AND FOUNDATION SOIL PARAMETERS FOR USE IN THE SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 673.
4. FOR THE STRENGTH LIMIT STATE THE APPLIED FACTORED BEARING RESISTANCE FOR THE WET CAST SMALL LANDSCAPE BLOCK WALL BEARING ON NATIVE SOILS SHALL NOT EXCEED 3.5 KSF. FOR THE SERVICE LIMIT STATE THE APPLIED FACTORED BEARING RESISTANCE FOR THE WET CAST LANDSCAPE BLOCK WALL BEARING ON NATIVE SOILS SHALL NOT EXCEED 5.0 KSF.
5. ALL EXPOSED BLOCK FACES SHALL BE FINISHED TO MATCH THE WALL FACE.
6. PIPE DRAINAGE SHALL BE INCLUDED IN THE DESIGN OF THE WALLS. WALL DRAINAGE WILL BE INCIDENTAL TO THE CONSTRUCTION OF THE WALL.
7. A MINIMUM EMBEDMENT DEPTH OF 2.0 FEET IS REQUIRED FOR CONSTRUCTION OF THE WET CAST LANDSCAPE BLOCK WALL.
8. RETAINING WALL ELEVATION DRAWN FACING RIGHT OF CENTERLINE DOWN STATION TO RIGHT AND UP STATION TO LEFT.
9. END OF COPING NOT SHOWN ON PLAN AND ELEVATION VIEWS.
10. PLAN VIEW WALL BATTER NOT SHOWN.
11. CONSULT SUPPLIERS CHARTS TO DETERMINE MINIMUM BOTTOM COARSE RADIUS.
12. ALL RETAINING WALL RADIUSSES IN PLAN DRAWN AT 5.0 FEET.
13. ACTUAL WALL ALIGNMENT AND LIMITS TO BE DETERMINED IN THE FIELD.
14. EXISTING RETAINING WALL TO BE EXCAVATED DOWN TO A MINIMUM OF 2.4 FEET BELOW FINISHED SIDEWALK GRADE. A MINIMUM 4 INCH THICK LEVELING PAD SHALL BE PLACED ON THE EXISTING RETAINING WALL PORTION TO REMAIN (IF ANY) IN AREAS WHERE THE EXISTING AND PROPOSED WALLS COINCIDE.
15. THE FACE QUANTITY OF WET CAST SMALL LANDSCAPE BLOCK WALL WILL BE APPROVED BY APPROVAL OF THE SHOP DRAWINGS.
16. UTILITY POLES AND/OR OTHER FACILITIES REQUIRED WITHIN THE WALL LIMITS SHALL NOT BE DRIVEN OR AUGURED THROUGH GEOSYNTHETIC REINFORCEMENT. THE IMPACT OF UTILITY POLES AND/OR OTHER FACILITIES ON WALL REINFORCEMENT SHALL BE ADDRESSED IN THE WALL DESIGN SUBMITTAL.
17. THE CONTRACTOR SHALL DESIGN AND FURNISH HANDRAILS FOR ALL STAIRS AT THE RETAINING WALLS. THE DESIGN SHALL MEET THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. THE HANDRAIL DESIGN SHALL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND ACCEPTANCE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 642.15 PRECAST CONCRETE STEPS.
18. LOCATION OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
19. PROPOSED ELEVATIONS ARE ASSUMED BASED ON BLOCK DIMENSIONS OF 18"W X 6"H. ACTUAL ELEVATIONS MAY VARY DEPENDING UPON ACTUAL DIMENSIONS.
20. COMMON EXCAVATION INCLUDED IN THE ESTIMATE IS FOR NECESSARY EXCAVATION OF THE SIDEWALK ONLY. EXCAVATION REQUIRED BEHIND THE PROPOSED WALL LOCATION WILL BE CONSIDERED INCIDENTAL TO ITEM 673.10 - WET CAST SMALL LANDSCAPE BLOCK WALL.
21. ANY DAMAGE TO THE EXISTING TRAVELWAY OR SHOULDER CAUSED BY THE CONTRACTOR'S WORK OR EQUIPMENT SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE.



GENERAL NOTES:

1. 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.
2. 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.
3. ALL PAVED WALKS TO BE CONSTRUCTED WITH 12 INCHES AGGREGATE SUBBASE COURSE - GRAVEL AND 2 INCHES HOT MIX ASPHALT UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
4. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
5. 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.
6. UNLESS OTHERWISE NOTED SEEDING METHOD NO.1 SHALL BE UTILIZED ON ALL LAWN AND DEVELOPED AREAS; SEEDING METHOD NO.2 SHALL BE UTILIZED ON ALL OTHER AREAS.
7. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT
9. 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.
10. THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DATA REPORT FOR THE REPLACEMENT OF A RETAINING WALL ON: ROUTE 24", SOILS REPORT 2021-05, FEBRUARY 1, 2021 CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).
11. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSION DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.
12. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
13. 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.
14. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
15. STATIONS REFERENCED ARE APPROXIMATE.

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 Division: HIGHWAY
 Username: skelly
 Date: 2/14/2021

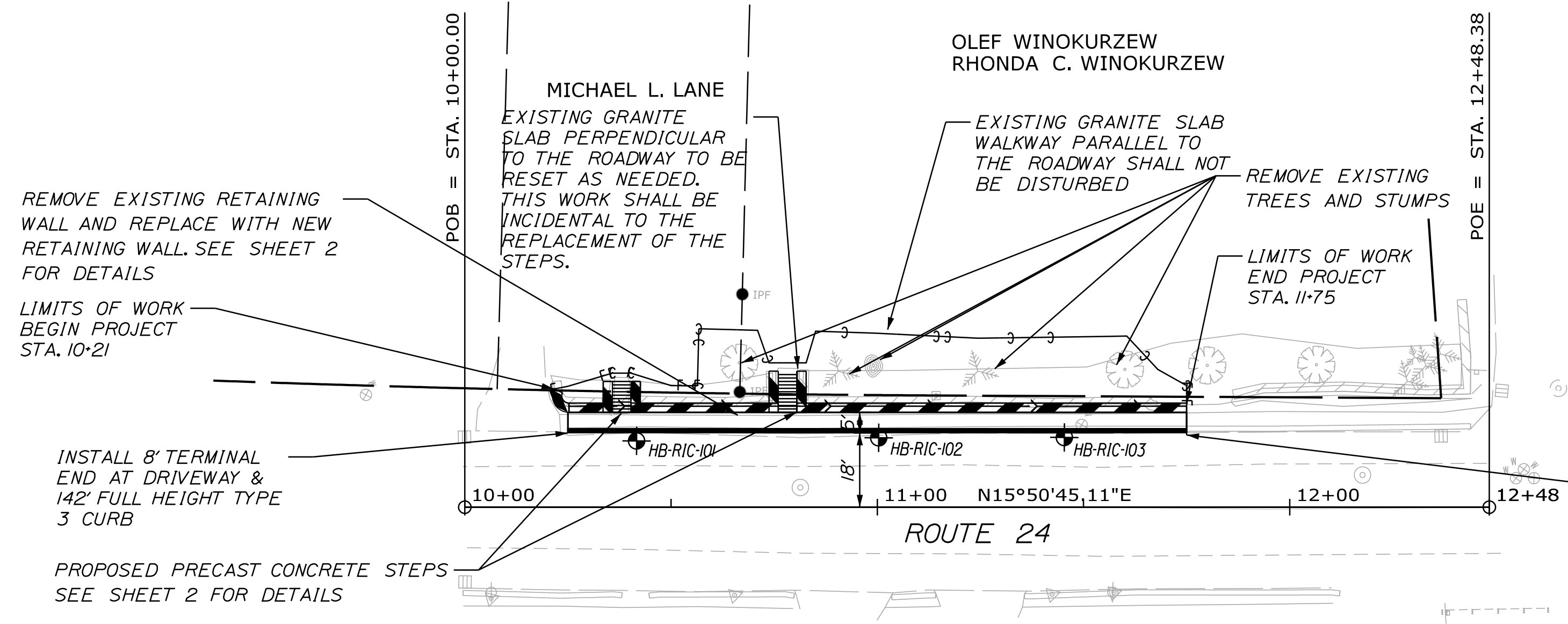
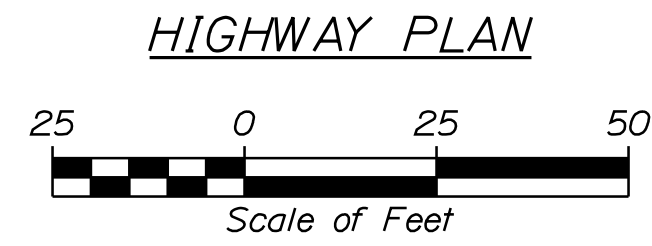
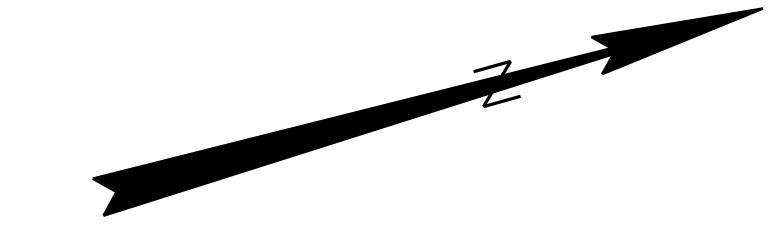
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	023741.00 WIN 23741.00 HIGHWAY PLANS
RICHMOND ROUTE 24	GENERAL NOTES & TYPICALS
SHEET NUMBER 2 OF 8	

Date: 2/14/2021

Username: skelly

Division: HIGHWAY

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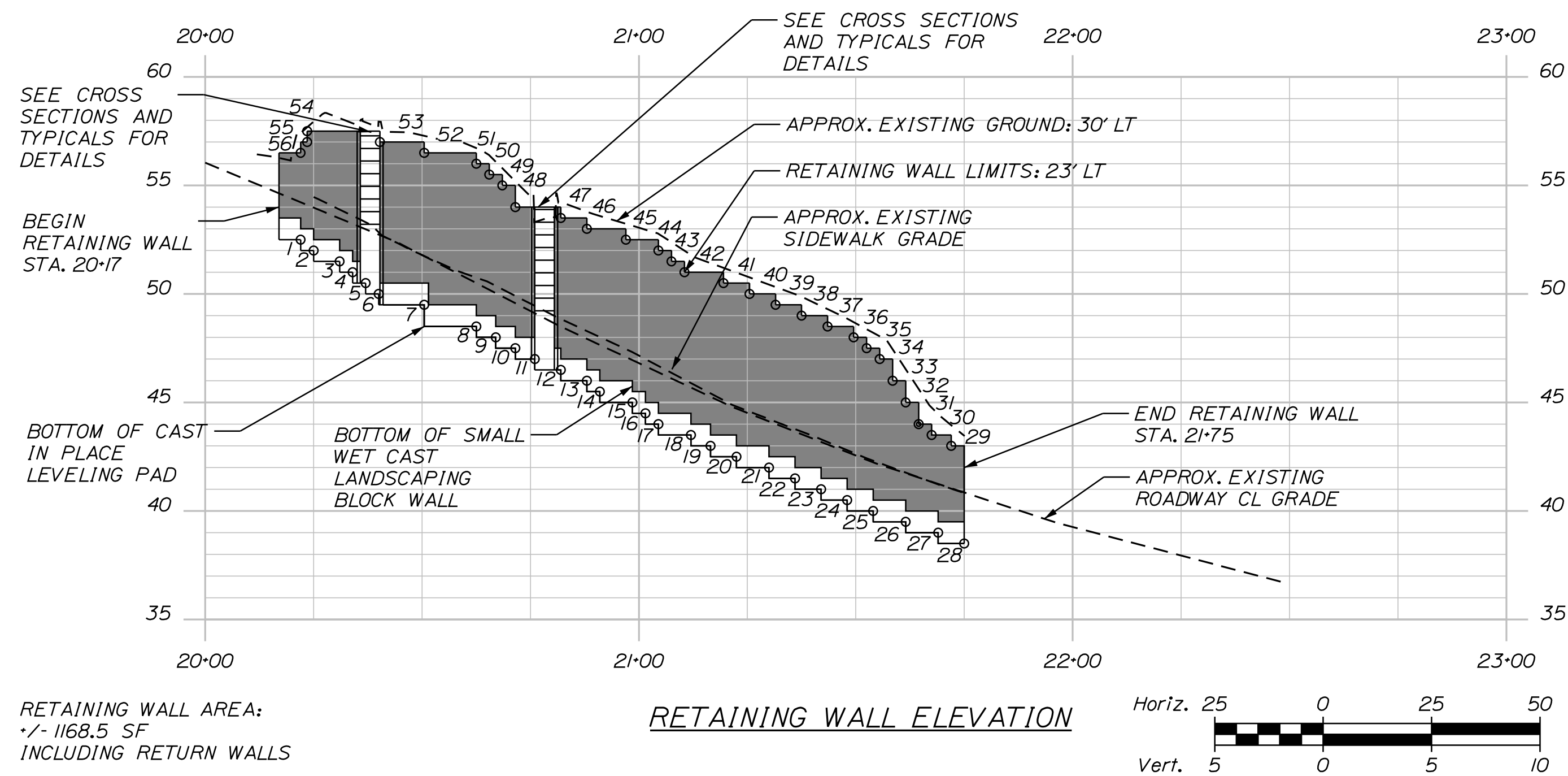


LANDSCAPE NOTES:

1. FINAL PLANTING LOCATIONS AS SHOWN IN THE SCHEDULE OF ITEMS AND SPECIAL PROVISION 62I WILL BE DETERMINED BY THE RESIDENT.
2. CUT LIMITS HAVE BEEN SET TO ALLOW FOR REMOVAL OF TREES AS WELL AS PROPOSED NEW LANDSCAPING.

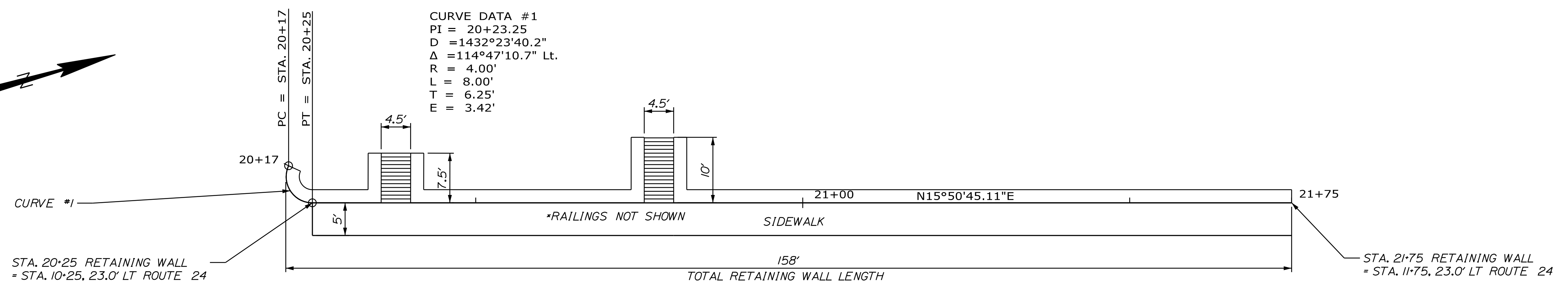
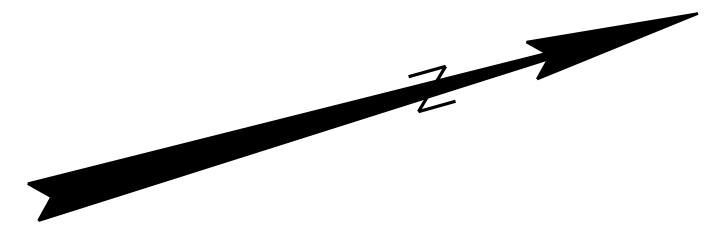
CONTROL POINT TABLE FOR RETAINING WALL STATION AND ELEVATION

POINT	STATION	ELEVATION
1	20+22.00	52.5
2	20+25.00	52.0
3	20+31.00	51.5
4	20+34.00	51.0
5	20+37.00	50.5
6	20+40.00	50.0
7	20+50.50	49.5
8	20+62.50	48.5
9	20+67.00	48.0
10	20+71.50	47.5
11	20+76.00	47.0
12	20+82.00	46.5
13	20+88.00	46.0
14	20+91.00	45.5
15	20+98.50	45.0
16	21+01.50	44.5
17	21+04.50	44.0
18	21+12.00	43.5
19	21+16.50	43.0
20	21+22.50	42.5
21	21+30.00	42.0
22	21+36.00	41.5
23	21+42.00	41.0
24	21+48.00	40.5
25	21+54.00	40.0
26	21+61.50	39.5
27	21+69.00	39.0
28	21+75.00	38.5



CONTROL POINT TABLE FOR RETAINING WALL STATION AND ELEVATION

POINT	STATION	ELEVATION
29	21+72.00	43.0
30	21+67.50	43.5
31	21+64.50	44.0
32	21+61.50	45.0
33	21+58.50	46.0
34	21+55.50	47.0
35	21+52.50	47.5
36	21+49.50	48.0
37	21+43.50	48.5
38	21+37.50	49.0
39	21+31.50	49.5
40	21+25.50	50.0
41	21+19.50	50.5
42	21+10.50	51.0
43	21+07.50	51.5
44	21+04.50	52.0
45	20+97.00	52.5
46	20+88.00	53.0
47	20+82.00	53.5
48	20+71.50	54.0
49	20+68.50	55.0
50	20+65.50	55.5
51	20+62.50	56.0
52	20+50.50	56.5
53	20+40.25	57.0
54	20+23.50	57.5
55	20+23.50	57.0
56	20+22.00	56.5



RETAINING WALL PLAN
NOT TO SCALE

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	S. KELLY	02/04/21			
CHECKED-REVIEWED	D. COOMBS	02/04/21			
DESIGNS-DETAILED					
DESIGNS-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

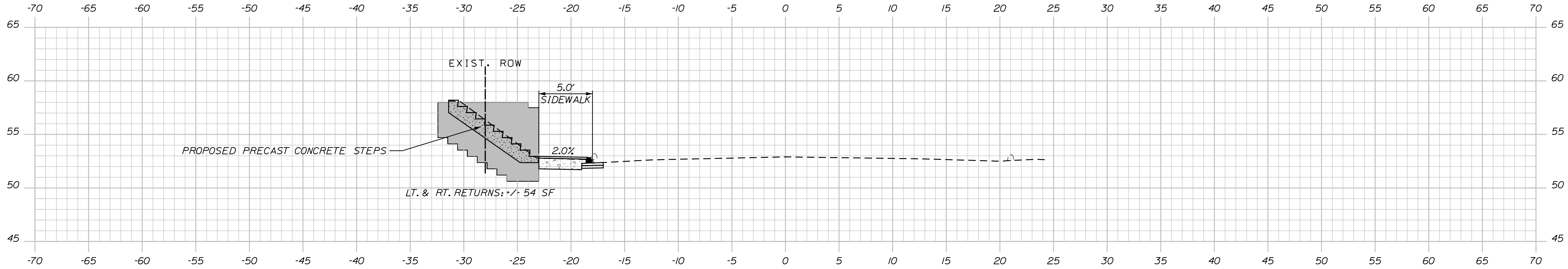
RICHMOND
ROUTE 24
GENERAL PLAN & PROFILE

Date: 2/4/2021

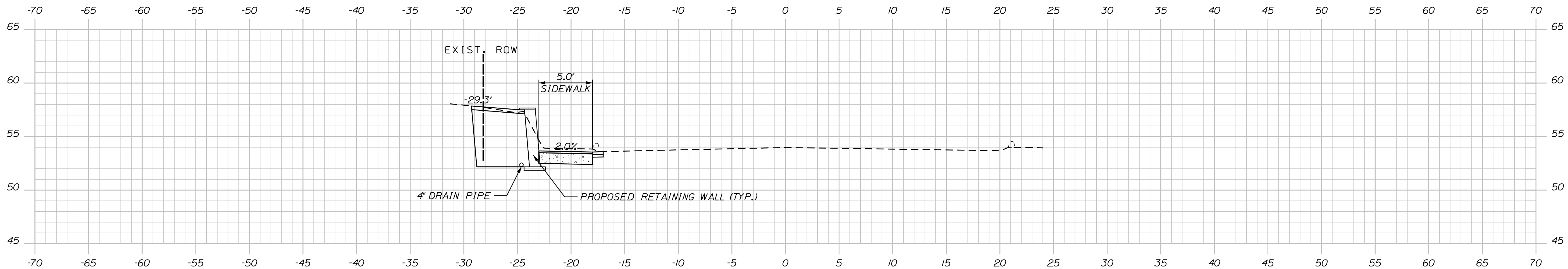
Username: skelly

Division: HIGHWAY

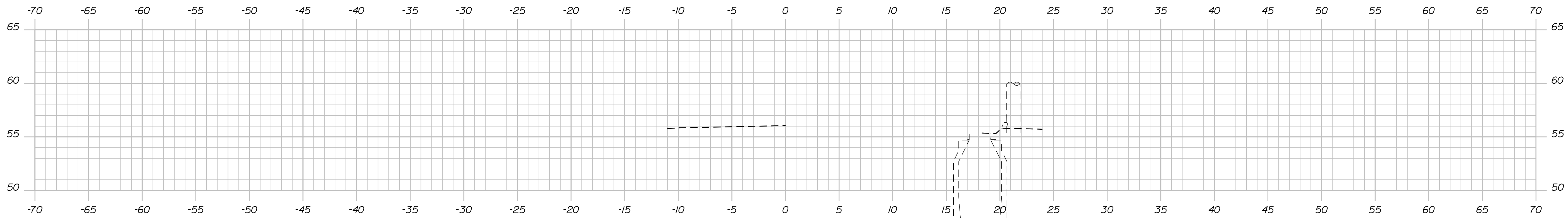
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10+38.00 (CONCRETE STEPS)



10+25.00



10+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023741.00

WIN
23741.00
HIGHWAY PLANS

SIGNATURE

DATE

BY

S. KELLY
D. COOMBS

PROJ. MANAGER

DESIGN DETAILED

CHECKED/REVIEWED

DESIGN DETAILED

DESIGN DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

P.E. NUMBER

DATE

RICHMOND
ROUTE 24

CROSS SECTIONS

SHEET NUMBER

4

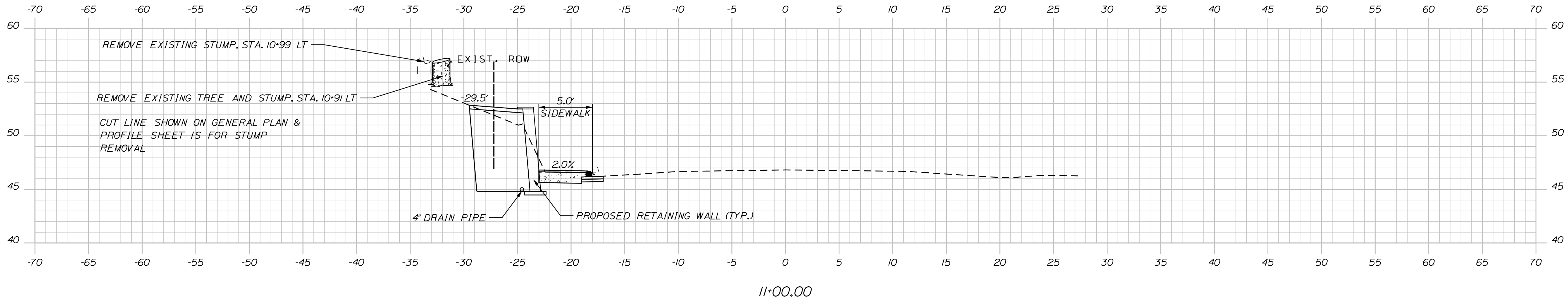
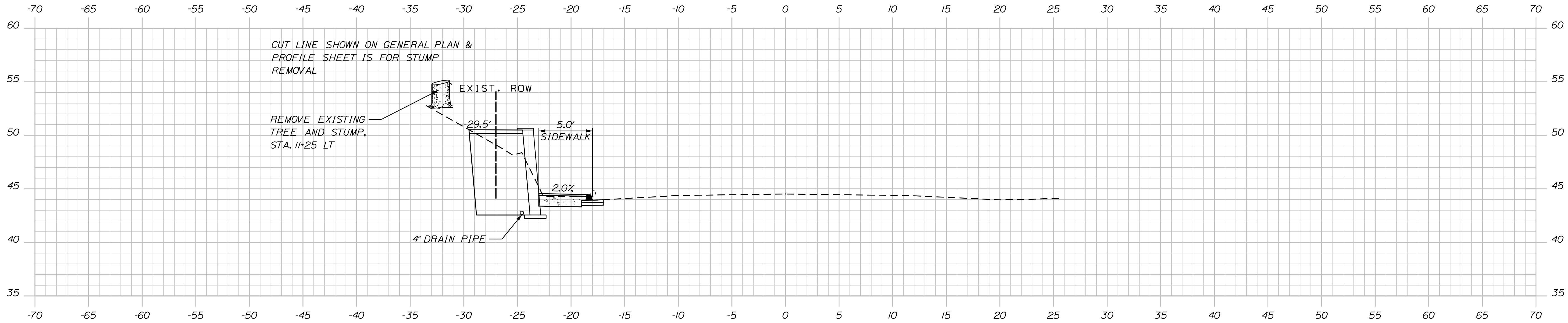
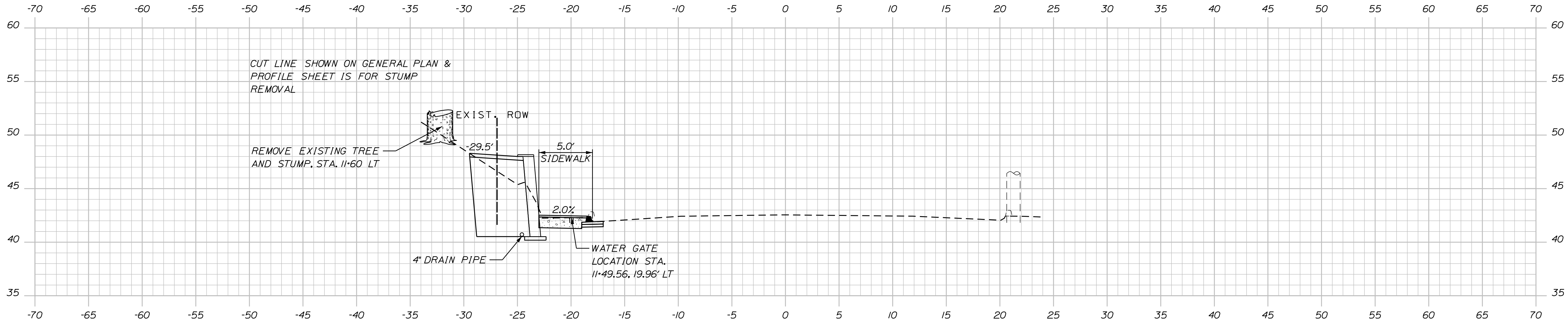
OF 8

Date: 2/4/2021

Username: skelly

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\Sheets\XSECT.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023741.00

WIN
23741.00
HIGHWAY PLANS

PROJ. MANAGER	DATE
D. COOMBS	02/04/21
DESIGN-DETAILED	S. KELLY
CHECKED-REVIEWED	D. COOMBS
DESIGN-DETAILED	
DESIGN-DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	
SIGNATURE	
P.E. NUMBER	
DATE	

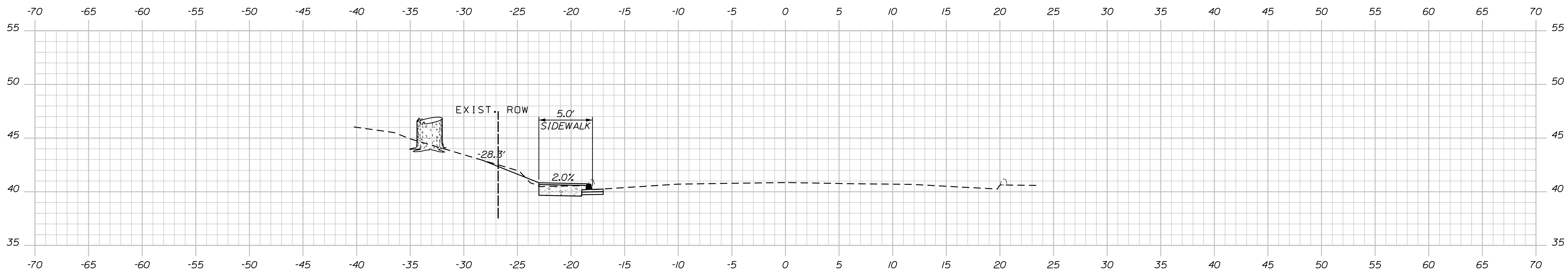
RICHMOND
ROUTE 24

CROSS SECTIONS

SHEET NUMBER

6

OF 8



END RETAINING WALL CONSTRUCTION
 STA. 11+75 LT
 BLEND IN SLOPE ADJACENT TO RETAINING WALL 11+75.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 023741.00
 WIN
 23741.00
 HIGHWAY PLANS

PROJ. MANAGER
 D. COOMBS
 BY
 S. KELLY
 D. COOMBS
 DATE
 02/04/21
 02/04/21
 SIGNATURE
 P.E. NUMBER
 DATE

DESIGN DETAILED
 CHECKED-REVIEWED
 DESIGN DETAILED
 DESIGN DETAILED
 REVISIONS 1
 REVISIONS 2
 REVISIONS 3
 REVISIONS 4
 FIELD CHANGES

RICHMOND
 ROUTE 24
 CROSS SECTIONS

SHEET NUMBER
 7
 OF 8

Town, County, State _____
 Approx. Property Lines _____
 Existing Right of Way _____
 Limits of Wrought Portion _____
 Control Of Access _____
 New Right of Way _____
 New Easement _____
 New Temporary Rights _____
 New R/W Within Existing R/W _____

New R/W Along Existing R/W _____
 Building _____
 Trees Conifer _____
 Tree Line _____
 Water Edge _____
 Ledge _____
 Fence CHAIN LINK _____
 Sign _____
 Clearing Limit Line _____
 Bush Line _____
 Rock/Boulder _____
 Barb Wire _____
 Well _____
 Flag Pole _____
 Stockade _____
 Mailbox _____

PLAN LEGEND

Existing Proposed

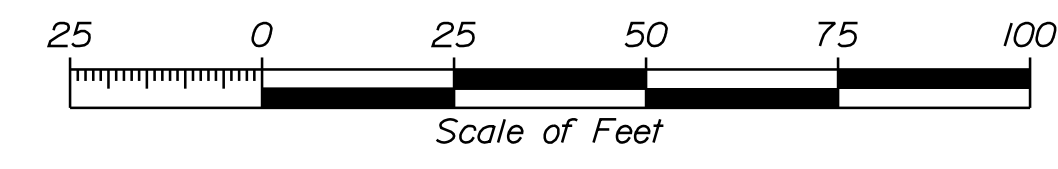
Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____

Traveled Way _____
 Ditch _____
 Catch Basin _____
 Manhole _____
 Sewer Manhole _____
 Utility Pole _____
 Fire Hydrant _____
 Curbing _____

Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____

Fill Line _____
 Retaining Wall _____
 Traverse Point _____
 Pipe Found _____

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



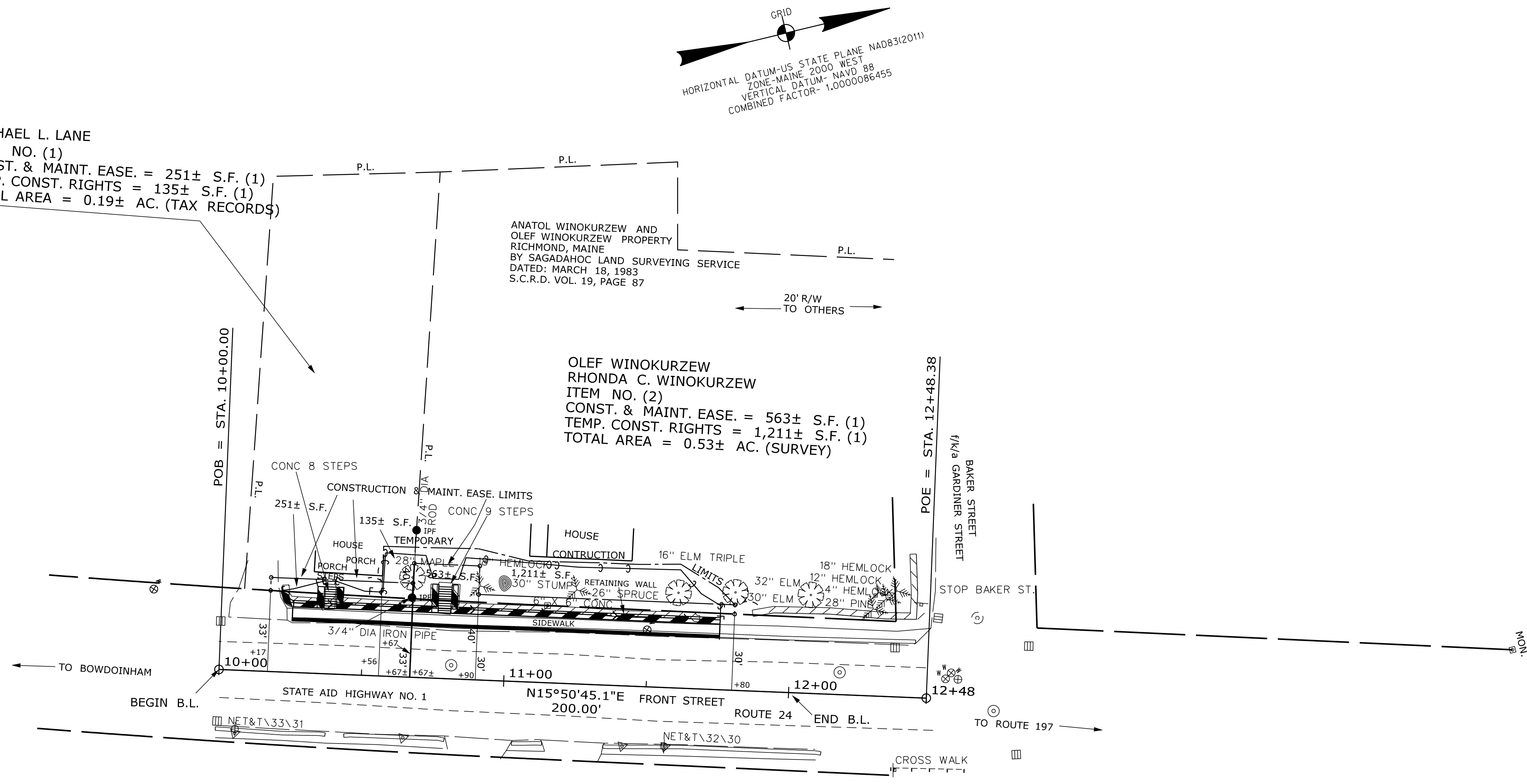
STATE OF MAINE
 REGISTRY OF DEEDS

COUNTY _____
 RECEIVED _____,
 at _____ h _____ m _____ M and
 recorded in Plan Bk _____, Pg. _____
 Attest: _____
 REGISTER

MICHAEL L. LANE
 ITEM NO. (1)
 CONST. & MAINT. EASE. = 251± S.F. (1)
 TEMP. CONST. RIGHTS = 135± S.F. (1)
 TOTAL AREA = 0.19± AC. (TAX RECORDS)

ANATOL WINOKURZEW AND
 OLEF WINOKURZEW PROPERTY
 RICHMOND, MAINE
 BY SAGADAHOC LAND SURVEYING SERVICE
 DATED: MARCH 18, 1983
 S.C.R.D. VOL. 19, PAGE 87

OLEF WINOKURZEW
 RHONDA C. WINOKURZEW
 ITEM NO. (2)
 CONST. & MAINT. EASE. = 563± S.F. (1)
 TEMP. CONST. RIGHTS = 1,211± S.F. (1)
 TOTAL AREA = 0.53± AC. (SURVEY)



GRID
 HORIZONTAL DATUM-US STATE PLANE NAD83(2011)
 ZONE-MAINE, 2000 WEST
 VERTICAL DATUM- NAVD 88
 COMBINED FACTOR- 1.0000086455

EXISTING R/W REFERENCE
 S.H.C. FILE NO. 12-59 (1966)

WIN 023741.00

Date: \$date\$

Username: \$user\$

Division: \$wkgroup\$

Filename: \$file\$

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	D.W.B.	
FINAL RIGHT OF WAY	D.W.B.	
AREAS	D.W.B.	P.N.S.

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

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD			
				NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE		
						COND.	9/14/20	2020R	06785		

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

STATE AID HIGHWAY NO. 1
 ROUTE 24, FRONT STREET
 RICHMOND SAGADAHOC COUNTY
 STATE PROJECT NO. 23741.00

JANUARY 2020
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 1

D.O.T. FILE NO. 12-140

SHEET NUMBER
 8
 OF 8