CONSTRUCTION DRAWINGS

FOR

SPURWINK ROAD IMPROVEMENTS
PHASE 2
SCARBOROUGH, MAINE

AUGUST 2025

PROFESSIONAL CONTACTS:

OWNER :
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, ME 04074
(207) 730-4401
CONTACT: DOUG HOWARD, DIRECTOR

ENGINEERING & DESIGN:
ST.GERMAIN
846 MAIN STREET
WESTBROOK, ME 04092
(207) 591-7000
CONTACT: PATRICK COUGHLIN

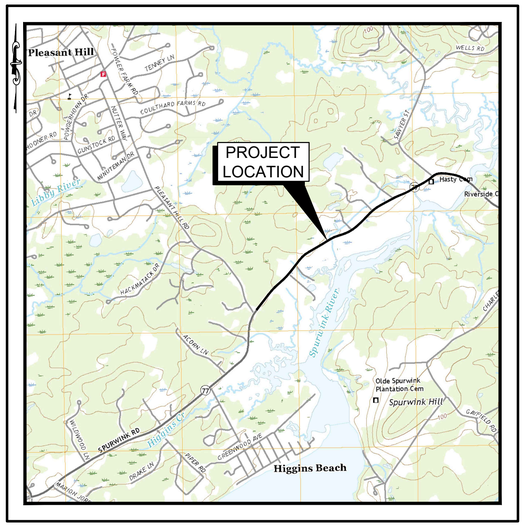
SURVEYOR:
NORTHERN SURVEY ENGINEERING, LLC
41 CHURCH ROAD
BRUNSWICK, ME 04011
(207) 440-3487
CONTACT: SEAN PIERCE, PLS#2517

GEOTECHNICAL ENGINEER:
SUMMIT GEOENGINEERING SERVICES
210 MAINE AVENUE
FARMINGDALE, MAINE 04344
(207) 446-0808
CONTACT: BILL PETERLEIN, PE#5787

WETLAND SCIENTIST:
MAINELY SOILS, LLC
440 SWAMP ROAD
DURHAM, ME 04222
(207) 650-4313
CONTACT: ALEX FINAMORE, LSE#391, CWS#267

DRAWING LIST:

C-001	COVER SHEET
C-002	GENERAL NOTES, TYPICAL SECTIONS AND LEGEND
--------	BOUNDARY & EXISTING CONDITIONS SURVEY (8 SHEETS)
C-201-212	SPURWINK ROAD PLANS & PROFILES
C-401-425	CROSS SECTIONS
C-426	CROSS SECTIONS SAWYER STREET
C-501	EROSION & SEDIMENTATION CONTROL NOTES & DETAILS
C-502	DETAILS
C-503	DETAILS



SITE LOCATION MAP
SCALE: 1" = 2,000'±
SOURCE: USGS, PROUTS NECK, MAINE, QUADRANGLE, DATED 2021

St.Germain
AN AVENTIA COMPANY
846 Main St., Westbrook, Maine 04092
207-591-7000 • StGermain.com

PETER J. DALFONSO No. 4100 LICENSED PROFESSIONAL ENGINEER STATE OF MAINE
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 COV.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

COVER SHEET

SHEET NO:

C-001

M:\Civil Drawings – Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd – Phase 2\DWG\4444-0004 COV.dwg 3/10/2026 1:14:16 PM

GENERAL NOTES:

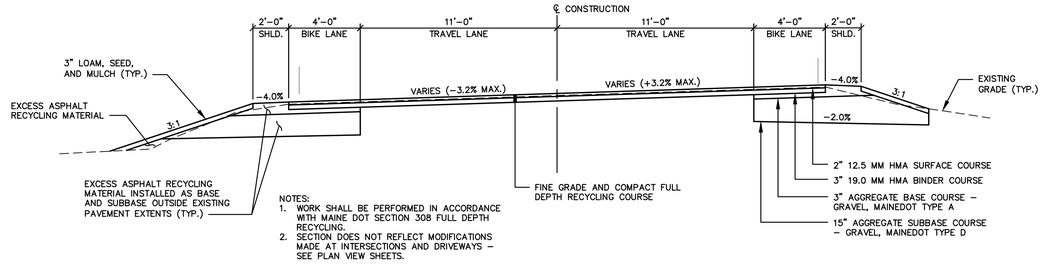
1. BOUNDARY, TOPOGRAPHIC, AND EXISTING CONDITIONS PROVIDED BY NORTHERN SURVEY ENGINEERING, LLC OF BRUNSWICK, MAINE AS A RESULT OF A FIELD SURVEY CONDUCTED IN AUGUST AND SEPTEMBER 2021.
2. VERTICAL DATUM IS REFERENCED TO NAVD88, DERIVED FROM STATIC GPS OBSERVATIONS. HORIZONTAL DATUM IS REFERENCED TO MAINE STATE PLANE NAD 1983 (FEET), MAINE WEST ZONE.
3. NATURAL RESOURCES DELINEATED BY ALEX FINAMORE, CWS OF MAINELY SOILS, LLC IN SEPTEMBER 2021.
4. PORTIONS OF THE PROJECT ARE LOCATED WITHIN A FEDERAL EMERGENCY MANAGEMENT AGENCY SPECIAL FLOOD HAZARD ZONE PER PRELIMINARY FLOOD INSURANCE RATE MAP DATABASE 23005C_PRELIMDB DATED AUGUST 30, 2019.
5. THE UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR. CONTACT THE TOWN IMMEDIATELY UPON DISCOVERING ANY CONFLICTS WITH EXISTING AND PROPOSED UTILITY LOCATIONS. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS.
6. CLEAN AND/OR FLUSH ALL MANHOLES, CATCH BASINS, AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED.
7. COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES, AND SCARBOROUGH PUBLIC WORKS. CONTACTS ARE LISTED IN SPECIFICATIONS. NOTIFY UTILITY COMPANIES WITHIN 48 HOURS OF WORK ACTIVITY ADJACENT TO THOSE UTILITIES OR PER UTILITY REQUIREMENTS.
8. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO EXCAVATION.
9. RESTORE ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC). RESTORATION OF PAVED SURFACES, GRAVEL SURFACES, DRIVEWAYS, AND LAWNS DAMAGED BY CONSTRUCTION ACTIVITIES OUTSIDE OF LIMITS OF WORK INDICATED ON THE PLANS SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER. ANY CURB DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AND SHALL CONFORM TO TOWN OF SCARBOROUGH AND MAINE DOT SPECIFICATIONS AT NO ADDITIONAL COST TO OWNER.
10. PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE TOWN.
11. EXISTING FACILITIES (I.E., TREES, POLES, LIGHT POSTS, CATCH BASINS, MAIL BOXES, SIGNS, RETAINING WALLS, ETC) SHALL BE PROTECTED DURING CONSTRUCTION. TOWN RETAINS RIGHT TO KEEP ANY AN ALL REMOVED FACILITIES. CONTRACTOR SHALL DISPOSE OF ANY REMOVED FACILITY AT THE REQUEST OF THE TOWN AT THE CONTRACTOR'S EXPENSE.
12. ALL TREES NOT NOTED TO BE REMOVED OR RELOCATED SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION.
13. DO NOT PARK, IMPEDE ACCESS TO, OR STORE EQUIPMENT ON ADJACENT TOWN OR PRIVATELY OWNED LOTS, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY TOWN AND/OR LAND OWNER.
14. COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS THE RESPONSIBILITY OF CONTRACTOR.
15. RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
16. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.
17. CONTRACTOR SHALL OBTAIN A TOWN STREET OPENING PERMIT BEFORE BEGINNING CONSTRUCTION.
18. UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF RECORD DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO THE SANITARY SEWER SYSTEM, STORM SEWER SYSTEM, AND ANY OTHER UTILITY INSTALLATIONS OR ALTERATION WITHIN THE PROJECT LIMITS MUST BE SUBMITTED TO THE TOWN. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT AS DEFINED IN THE SPECIFICATIONS PRIOR TO PAYMENT OF FINAL RETAINAGE.
19. WORK IS IN CLOSE PROXIMITY TO EXISTING UTILITIES. PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION SHALL BE INCIDENTAL TO THE PAY ITEM UNDER WHICH WORK TO INSTALL SAID UTILITY IS PERFORMED.
20. FIELD VERIFY UTILITY ELEVATIONS PRIOR TO ORDERING CATCH BASIN AND MANHOLE STRUCTURES. NOTIFY ENGINEER OF ANY CONFLICTS.
21. CONTACT TOWN OF SCARBOROUGH ENGINEER PRIOR TO CUTTING ROOTS, TRIMMING BRANCHES, OR DISTURBING TREES THAT HAVE NOT BEEN NOTED FOR REMOVAL ON THE PLANS.
22. PROVIDE 4-INCHES OF LOAM AND SEED IN ALL LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS, UNLESS OTHERWISE NOTED AS SOD.
23. MUNICIPAL FIRE ALARM AND DATA CABLES ARE LOCATED ABOVEGROUND ATTACHED TO THE UTILITY POLES AND SHALL BE PROTECTED.
24. EXISTING WATER MAIN SHOWN ON PLANS IS BASED ON GROUND SURVEY CONDUCTED BY NORTHERN SURVEY ENGINEERING, LLC IN AUGUST AND SEPTEMBER 2021 AND SUPPLEMENTED WITH PLANS PROVIDED BY THE PORTLAND WATER DISTRICT. WATER MAIN DEPTHS SHOWN IN PROFILE ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED THROUGH TEST PITS IN ADVANCE OF PERFORMING EXCAVATION IN PROXIMITY TO THE WATER MAIN.

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/ROW	
	ADJACENT PROPERTY LINE	
	SETBACKS	
	MONUMENTS	
710	CONTOURS	710
	EDGE OF GRAVEL	
	EDGE OF PAVEMENT	
	WETLAND SYMBOL	
	CURB	
	PAVEMENT STRIPING	
	BUILDINGS	
	TREES/TREELINE	
	STONEWALL	
	SIGNS	
	BOLLARDS	
OHU	UTILITY POLE	
	OVERHEAD UTILITY	OHU
	LIGHTS	
UGE	UNDERGROUND ELECTRIC	UGE
UGT	UNDERGROUND TELECOMMUNICATIONS	UGT
G G G	GAS LINE	G G G
	WATER SHUTOFF	
	WATER VALVE	
	HYDRANT	
W	WATER LINE	W
	CATCH BASIN	
	SEWER MANHOLE	
	DRAIN MANHOLE	
SD	STORM DRAIN LINE	SD
SS	SANITARY SEWER LINE	SS
UD	UNDERDRAIN LINE	UD
	TRAFFIC FLOW DIRECTION	
	SNOW STORAGE AREA	
	SEDIMENT BARRIER	SB SB
	INLET PROTECTION	
	FENCE	X X
	CONCRETE	
	GRAVEL SURFACE	
	RIPRAP	
	ASPHALT PAVEMENT	
	BITUMINOUS SIDEWALK	
	SOIL BORING	
	WETLAND IMPACTS	
	DRIVEWAY PAVING	
	GUARDRAIL	
MB	MAILBOX	
	EDGE OF CUT	C
	EDGE OF FILL	F
	DITCH CL	
	WOOD FENCE	
	RAIL FENCE	

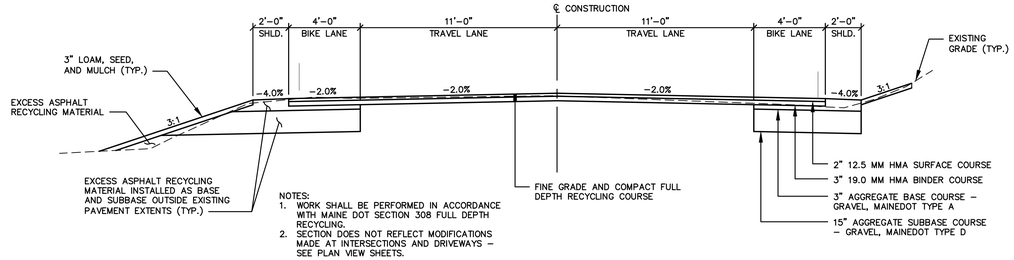
ABBREVIATIONS:

&	AND	MAX	MAXIMUM
AC	ASBESTOS CEMENT	MDOT	MAINE DEPARTMENT OF TRANSPORTATION
AG	ABOVEGROUND	MIN	MINIMUM
		MM	MILLIMETER
BIT	BITUMINOUS	MON	MONUMENT
B/W	BETWEEN		
		NIC	NOT IN CONTRACT
CB	CATCH BASIN	NO	NUMBER
CI	CAST IRON	NR	NO REFUSAL
CMP	CENTRAL MAINE POWER	NTS	NOT TO SCALE
CMP	CORRUGATED METAL PIPE		
CONC	CONCRETE	OHE	OVERHEAD ELECTRIC
		OH	OVERHEAD
DI	DUCTILE IRON		
DIA	DIAMETER	PROP	PROPOSED
DMH	DRAIN MANHOLE	PT	POINT
DTL	DETAIL	PVC	POLYVINYL CHLORIDE
DYCL	DOUBLE YELLOW CENTER LINE	PWD	PORTLAND WATER DISTRICT
E	UNDERGROUND ELECTRICAL	ROW	RIGHT-OF-WAY
EG	EXISTING GRADE	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	REINF	REINFORCED
EOP	EDGE OF PAVEMENT	REQD	REQUIRED
EXIST	EXISTING		
		S	SEWER
FG	FINISHED GRADE	SD	STORM DRAIN
FFE	FINISHED FLOOR ELEVATION	SS	SANITARY SEWER
FT	FOOT/FEET	SMH	SEWER MANHOLE
		SCH	SCHEDULE
G	GAS MAIN	SSWL	SINGLE SOLID WHITE LINE
GS	GAS SERVICE	STA	STATION
GALV	GALVANIZED		
GRAN	GRANITE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UP	UTILITY POLE
HMA	HOT MIX ASPHALT		
HYD	HYDRANT	VC	VITRIFIED CLAY
INV	INVERT	W	WATER
		W/	WITH
LF	LINEAR FEET	WM	WATER MAIN
		WOSS	WETLAND OF SPECIAL SIGNIFICANCE
		WS	WATER SERVICE
		WV	WATER VALVE



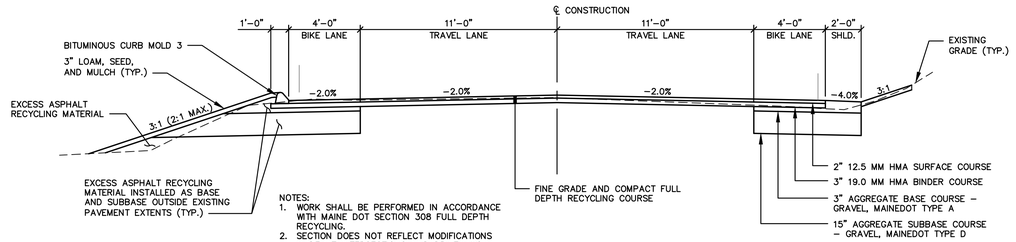
NOTES:
1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH MAINE DOT SECTION 308 FULL DEPTH RECYCLING.
2. SECTION DOES NOT REFLECT MODIFICATIONS MADE AT INTERSECTIONS AND DRIVEWAYS - SEE PLAN VIEW SHEETS.

TYPICAL SECTION - SUPERELEVATED



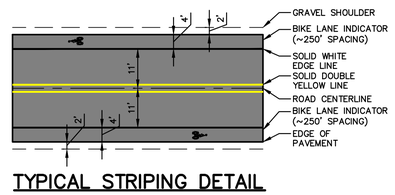
NOTES:
1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH MAINE DOT SECTION 308 FULL DEPTH RECYCLING.
2. SECTION DOES NOT REFLECT MODIFICATIONS MADE AT INTERSECTIONS AND DRIVEWAYS - SEE PLAN VIEW SHEETS.

TYPICAL SECTION - NORMAL CROWN



NOTES:
1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH MAINE DOT SECTION 308 FULL DEPTH RECYCLING.
2. SECTION DOES NOT REFLECT MODIFICATIONS MADE AT INTERSECTIONS AND DRIVEWAYS - SEE PLAN VIEW SHEETS.

TYPICAL SECTION - WITH CURB



TYPICAL STRIPING DETAIL

St.Germain
AN AVENTIA COMPANY
846 Main St., Westbrook, Maine 04092
207-591-7000 • StGermain.com

STATE OF MAINE
PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 GEN.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

GENERAL NOTES, TYPICAL SECTIONS AND LEGEND

SHEET NO:

C-002

811 DigSafe MA-ME-NH-RI-VT

M:\Civil Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 GEN.dwg 3/10/2026 1:14:22 PM

FOR REGISTRY USE ONLY

GENERAL NOTES:

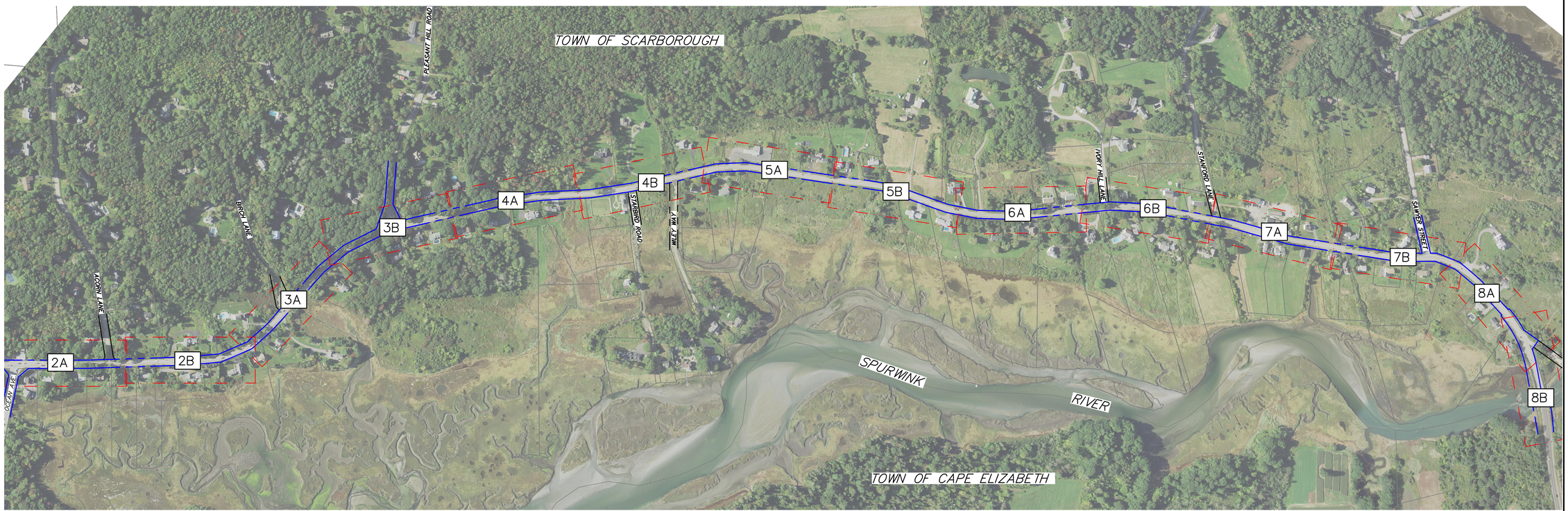
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING USE AND TOPOGRAPHY OF A PORTION OF SPURWINK ROAD, AND IT IS NOT A REDEFINITION. THE LOCATION OF THE SPURWINK ROAD RIGHT OF WAY IS BASED ON THE REFERENCES LISTED, FIT TO MONUMENTATION FOUND DURING THE COURSE OF THIS SURVEY USING A HELMERT ADJUSTMENT. RECORD RIGHT OF WAY DIMENSIONS SHOWN ON PLAN REF. C WERE FOUND TO NOT FIT MONUMENTS FOUND AS PART OF THIS FIELD SURVEY, AND ADJUSTMENTS WERE MADE TO CONFORM SECTIONS OF THE RECORD RIGHT OF WAY TO FOUND EVIDENCE NOTED AS "HELD" HEREON.

   BOUNDARY LINES OF PROPERTIES AND RIGHTS OF WAY ABUTTING THE SUBJECT RIGHT OF WAY ARE SHOWN AS APPROXIMATE BASED ON AVAILABLE PLANS OF RECORD AND TAX ASSESSORS DATA. FIELD SURVEY OF PARCELS ABUTTING THE SUBJECT RIGHT OF WAY WAS NOT COMPLETED AND LINES SHOWN ARE NOT AN OPINION OF TITLE.
2. BOUNDARY & TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON AN ON-THE-GROUND FIELD SURVEY COMPLETED BY NORTHERN SURVEY ENGINEERING, LLC IN SEPTEMBER, 2021.
3. BOOK AND PAGE REFERENCES SHOWN HEREON ARE IN REFERENCE TO THE CUMBERLAND COUNTY REGISTRY OF DEEDS (C.C.R.D.)
4. BEARINGS SHOWN HEREON ARE IN REFERENCE TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83. ELEVATIONS DEPICTED HEREON ARE IN REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED GPS OBSERVATIONS.
5. DISTANCES SHOWN ARE GRID DISTANCES, USE A COMBINED SCALE FACTOR OF 1.00003351 TO CONVERT TO GROUND.
6. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL SURFACE EVIDENCE LOCATED IN THE FIELD IN CONJUNCTION WITH ANY RECORD INFORMATION AVAILABLE AT THE TIME OF THIS SURVEY (SUE LEVEL C), AND MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. A FIELD DELINEATION WAS NOT COMPLETED AS PART OF THIS SURVEY AND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OR EXCAVATION.
7. A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN NOVEMBER, 2020 BY ALEX FINAMORE, CERTIFIED SOIL SCIENTIST OF MAINELY SOILS, LLC, AND LOCATED BY SUB-METER GPS DURING THE DELINEATION. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. NO VERIFICATION OF WETLAND FLAGGING SHOWN WAS COMPLETED AS PART OF THIS SURVEY.
8. DOCUMENT REFERENCES:
   A. CUMBERLAND COUNTY COMMISSIONERS VOLUME 24D, PAGE 1349, DATED 1961.
   B. CUMBERLAND COUNTY COMMISSIONERS VOLUME 24D, PAGE 1379, DATED 1964.
   C. "PLAN OF SPURWINK ROAD IN THE TOWN OF SCARBOROUGH AS DEFINED BY THE COMMISSIONERS OF CUMBERLAND COUNTY FOLLOWING HEARING ON SAME" DATED MAY 9, 1962, BY H.H. SWEETSER, H.I. & E.C. JORDAN SURVEYORS, ON FILE WITH THE OFFICE OF OWEN HASKELL, INC.
   D. STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP, STATE AID HIGHWAY NO. 3, D.O.T. FILE NO. 3-333, DATED 1985.
   E. MAINE STATE HIGHWAY COMMISSION RIGHT OF WAY MAP, STATE HIGHWAY NO. 11, S.H.C. FILE NO. S-3-304, DATED SEPTEMBER, 1966.

GRID

LEGEND

RIGHT-OF-WAY LINE	SANITARY SEWER
ABUTTER LINE	STORM DRAIN
EASEMENT	CULVERT
BUFFER	OVERHEAD UTILITY
FLOODPLAIN	UNDERGROUND UTILITY
CENTERLINE	RIPRAP
BUILDING	NOW OR FORMERLY
DECK/STEPS	ABOVE GRADE
EDGE WETLAND	BELOW GRADE
LANDSCAPING	MONUMENT FOUND
STREAM	IRON PIPE/ROD FOUND
LEDGE	SURVEY CONTROL
EDGE PAVEMENT	DECIDUOUS TREE
EDGE CONCRETE	CONIFEROUS TREE
PAVEMENT PAINT	BOLLARD/POST
EDGE GRAVEL	SIGN
CURB LINE	GAS GATE VALVE
EDGE OF WATER	WATER GATE VALVE
TREELINE	WATER SHUT OFF
120 118 CONTOURS	HYDRANT
X120.00 SPOT GRADE	SANITARY MANHOLE
CHAIN LINK FENCE	WETLANDS
WIRE FENCE	CATCH BASIN
WOOD FENCE	ELECTRIC METER
GUARD RAIL	LIGHT POLE
STONE WALL	UTILITY POLE
RETAINING WALL	GUY WIRE
GAS	
WATER	



GRAPHIC SCALE
300 0 150 300 600
(IN FEET)
1 INCH = 300 FT.

SURVEYORS CERTIFICATION:

THIS SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, IT WAS DONE IN ACCORDANCE WITH CHAPTER 90, PART 1 (PROFESSIONAL STANDARDS OF PRACTICE) AND PART 2 (TECHNICAL STANDARDS OF PRACTICE) OF THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS.

SEAN P. PIERCE, MAINE PLS 2517 — 01/24/22 DATE

SEAN P. PIERCE, P.L.S. 2517

STATE OF MAINE — SEAN P. PIERCE — 2517 — PROFESSIONAL LAND SURVEYOR

REV.:	BY:	DATE:	STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION AND ALL REVISIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK.

NORSE
NORTHERN SURVEY ENGINEERING
207.440.3487
41 CHURCH ROAD, BRUNSWICK, MAINE 04011
www.northernsurveyengineering.com

BOUNDARY & EXISTING CONDITIONS SURVEY

OF:
ROUTE 77 - SPURWINK ROAD
OCEAN AVENUE TO CAPE ELIZABETH
SCARBOROUGH, MAINE 04070

FOR:
TOWN OF SCARBOROUGH
259 U.S. ROUTE 1
SCARBOROUGH, MAINE 04070

RIGHT OF WAY RECORD:
CUMBERLAND COUNTY COMMISIONER
VOL. 24D, PG. 1349
VOL. 250, PG. 1498

DRAWN	CHECKED
SPP	NSE
PROJECT NO.	DATE
21102	01/24/22
SHEET SIZE	SCALE
24" X 36"	1" = 300'

SHEET 1 OF 8

FOR REGISTRY USE ONLY

GRID

N/F
KENNETH J. KACERE
PENNY L. KACERE
78 SPURWINK RD.
MAP R94, LOT 4E
BK. 13315, PG. 346

N/F
HBM REALTY, LLC
82 SPURWINK RD.
MAP R94, LOT 3
BK. 37860, PG. 8

N/F
KENNETH J. KACERE
PENNY L. KACERE
78 SPURWINK RD.
MAP R94, LOT 4E
BK. 13315, PG. 346

N/F
SCOTT R. TOWNSEND
JENNIFER L. TOWNSEND
2 ACORN LANE
MAP R94, LOT 4A
BK. 29365, PG. 48

PLANTER
GRAVEL DRIVE
#5 REBAR BENT, 3 A.G.
RIP RAP
SIGN PRIVATE WAY
SIGN CROSSWALK AHEAD
SIGN SHADE AT HIGGINS BEACH INN 3/10 OF A MILE AHEAD ON LEFT
LOOSE LEDGE/ BOULDERS
LEDGE
LEDGE COLUMN
12" HDPE INV. 16.35'
5"X5" GRANITE W/DH, 10" A.G.
SIGN ACORN LANE
ACORN LANE (PUBLIC 50' WIDE (PB 144, PG. 69))
50.0'
SIGN NO PARKING ANYTIME EXCEPT SEPT 16TH–APRIL 30TH
15" CMP INV. 15.73'
18" CMP INV. 15.65'
SIGN INTERSECTION AHEAD
UNK.
12" HDPE INV. 18.23'
OHU
FM
W
N: 267211.74
E: 2921388.50
STA.: 0+74.67
O/S: 0.00
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
OCEAN AVENUE
SIGN CROSSWALK
SIGN REFLECTOR
SIGN NO PARKING ANYTIME
SIGN REFLECTOR
SIGN NO PARKING ANYTIME
N 50°58'26" E 501.14'
N 49°09'26" E 587.08'
PI: 5+01.14
101°32'2"
SIGN CROSSWALK W/FLASHING LIGHTS
DITCH
STA.: 1+50.94
O/S: 24.75
SIGN NO PARKING ANYTIME
PAVED DRIVE
TBM: 21.95'
SIGN 35 MPH
PAVED DRIVE
SIGN NO PARKING ANYTIME
PAVED DRIVE
SHRUBS
18" CMP INV. 14.47'
DITCH
N 11°18'26" W 79.90'
SIGN CROSSWALK LIGHT
OCEAN AVE. (PUBLIC - 60' WIDE)
6"X6" GRANITE W/DH, 8" A.G. (HELD)
60'

N/F
JEFFREY L. DUMAIS
JULIE L. HARRISON
81 SPURWINK RD.
MAP R100, LOT 13A
BK. 29398, PG. 79

N/F
MICHAEL J. VASILE
DIANE P. VASILE
83 SPURWINK RD.
MAP R100, LOT 5
BK. 3423, PG. 304

N/F
SUSAN THOMPSON
85 SPURWINK RD.
MAP R100, LOT 4
BK. 24373, PG. 244

N/F
MICHAEL D. DUGGAN
87 SPURWINK RD.
MAP R100, LOT 3A
BK. 29349, PG. 199

N/F
DEBORAH M. HARRIS
89 SPURWINK RD.
MAP R100, LOT 3
BK. 13986, PG. 90

N/F
IVER R. CARLSEN
91 SPURWINK RD.
MAP R100, LOT 2
BK. 30864, PG. 344

GRID

N/F
RICHARD F. FOX
PATRICIA A. FOX
1 ACORN LANE
MAP R94, LOT 4B
BK. 35735, PG. 219

N/F
MARILYS SCHEINDEL
ROBERT B. SCHEINDEL
96 SPURWINK RD.
MAP R99, LOT 22
BK. 36331, PG. 283

SIGN NO PARKING
20" CMP INV. 11.61'
DITCH
BRUSHLINE
PAVED DRIVE
6"X6" GRANITE W/DH, BROKEN FLUSH (HELD)
6"X6" GRANITE W/DH, FLUSH
1.54'
BRUSHLINE
PI: 15+03.46
15+00
14+00
N 27°47'26" E 194.69'
#5 REBAR BENT, FLUSH
PAVED DRIVE
PI: 10+88.22
11+00
10+00
9+00
8+00
N 46°10'26" E 220.54'
PI: 13+08.77
13+00
12+00
N 49°09'26" E 587.08'
PAVED DRIVE
PAVED DRIVE
1" IRON ROD 12" A.G., LEANING
SIGN NO PARKING
SIGN LEFT TURN
PAVED DRIVE
SHRUBS
DECORATIVE ROCK RETAINING WALL
SIGN BLIND DRIVE
24" HDPE INV. 9.87'

N/F
ANTHONY DAMICO
KAREN DAMICO
93 SPURWINK RD.
MAP R100, LOT 1
BK. 28020, PG. 67

N/F
JOHN E. BRABAZON
CHRISTINA BRABAZON
95 SPURWINK RD.
MAP R99, LOT 21
BK. 34259, PG. 346

N/F
PAMELA A. FRIDLINGTON REVOCABLE LIVING TRUST
99 SPURWINK RD.
MAP R99, LOT 18A
BK. 36275, PG. 194

GRAPHIC SCALE
25 0 25 50
(IN FEET)
1 INCH = 25 FT.

SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
PROFESSIONAL LAND SURVEYOR

REV.:	BY:	DATE:	STATUS:
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NORTHERN SURVEY ENGINEERING
41 CHURCH ROAD, BRUNSWICK, MAINE 04011
207.440.3487
www.northernsurveyengineering.com

BOUNDARY & EXISTING CONDITIONS SURVEY

OF:
ROUTE 77 - SPURWINK ROAD
OCEAN AVENUE TO CAPE ELIZABETH
SCARBOROUGH, MAINE 04070

FOR:
TOWN OF SCARBOROUGH
259 U.S. ROUTE 1
SCARBOROUGH, MAINE 04070

RIGHT OF WAY RECORD:
CUMBERLAND COUNTY COMMISSIONER
VOL. 24D, PG. 1349
VOL. 250, PG. 1498

DRAWN	CHECKED
SPP	NSE
PROJECT NO.	DATE
21102	01/24/22
SHEET SIZE	SCALE
24" X 36"	1" = 25'

SHEET 2 OF 8

FOR REGISTRY USE ONLY

GRID

N/F
JOHN CLOUTIER
MELISSA CLOUTIER
100 SPURWINK RD.
MAP R99, LOT 23A
BK. 25891, PG. 111

N/F
CHARLES A. TARLING
MARTHA I. TARLING
3 INDIAN ROCK RD.
MAP R99, LOT 24
BK. 13000, PG. 14

BIRCH LANE
(PRIVATE) PB. 161, PG. 63

SIGN
BIRCH LANE PRIVATE

24" HDPE
INV. 7.47'

24" HDPE
INV. 7.70'

24" HDPE
INV. 6.82'

STANDING
WATER

6" HDPE
INV. 11.43'

6" HDPE
INV. 9.73'

SIGN
PEDESTRIANS AHEAD
NO PARKING

BRUSH LINE

DITCH

PAVED DRIVE

SIGN
RIGHT TURN AHEAD

SIGN
SCHOOL BUS STOP AHEAD

SIGN
ROUTE 77 SOUTH

1.54'

PI: 15+03.46

N 9°01'56" E 162.64'

PI: 16+66.10

N 2°32'56" E 468.04'

PI: 21+34.15

15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00

OHU

W

JE REBAR
BENT, FLUSH

PAVED
DRIVE

N/F
GEORGE C. LIBBY
FRANCINE A. LIBBY
101 SPURWINK RD.
MAP R99, LOT 20
BK. 19913, PG. 23

N/F
EDWARD C. OSGOOD
JANE B. OSGOOD
103 SPURWINK RD.
MAP R99, LOT 19
BK. 3142, PG. 619

N/F
DAVID R. BENEMAN
CHRISTINE T. BENEMAN
105 SPURWINK RD.
MAP R99, LOT 18
BK. 11498, PG. 247

SIGN
NO PARKING

15" HDPE
INV. 7.05'

UNK.

SIGN
NATIONAL WILDLIFE REFUGE

SIGN
FORK AHEAD

SIGN
BLIND DRIVE

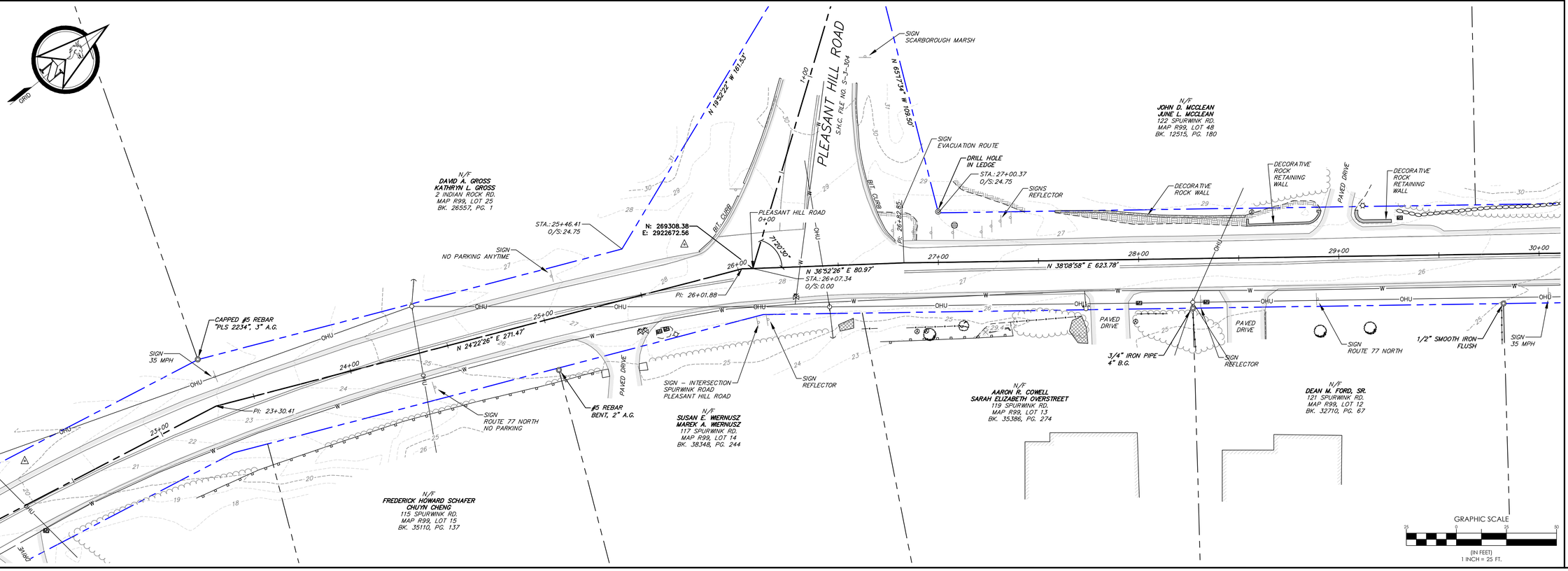
SIGN
NO PARKING

SIGN
EVACUATION ROUTE

COASTAL
MARSH

N/F
UNITED STATES OF AMERICA
135 SPURWINK RD.
MAP R99, LOT 9
BK. 4014, PG. 13

N/F
THERESA A. CLOUTIER
111 SPURWINK RD.
MAP R99, LOT 17
BK. 18451, PG. 262



SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
PROFESSIONAL LAND SURVEYOR

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SHEET 3 OF 8

FOR REGISTRY USE ONLY

GRID

12" C.M.P. INV.=22.76'

SIGN CURVE AHEAD WITH MERGING TRAFFIC

12" C.M.P. INV.=22.43'

#6 REBAR 6" A.G.

12" C.M.P. INV.=21.47'

12" C.M.P. INV.=23.42'

PAVED DRIVE

N/F
RAY M. JOHNSON
SUSAN A. JOHNSON
126 SPURWINK RD.
MAP R99, LOT 46
BK. 16974, PG. 1

0.27'

6"X6" GRANITE W/DH, 2" B.G.

N/F
LAURA S. UNDERKUFFLER
360 PLEASANT HILL RD.
MAP R99, LOT 44
BK. 25011, PG. 111

6"X6" GRANITE W/DH, 6" A.G. (HELD)

DITCH

18" CMP INV.=11.03'

DITCH

18" CMP INV.=10.09'

31+00 32+00 33+00 34+00 35+00 36+00 37+00

N 38°08'58" E 623.78'

PI: 33+06.64

N 42°40'28" E 250.28'

PI: 35+56.92

N 48°06'58" E 299.41'

PAVED DRIVE

1" IRON PIPE FLUSH

TBM: 21.47'

DITCH

PLASTIC COVER

6"X6" GRANITE W/DH, 8" A.G. (HELD)

N/F
JAMES D. JARBOE
123 SPURWINK RD.
MAP R99, LOT 11
BK. 32945, PG. 25

N/F
SCOTT EAGER
127 SPURWINK RD.
MAP R99, LOT 10
BK. 32828, PG. 184

N/F
MARK T. WAGNER
JANE WAGNER
129 SPURWINK RD.
MAP R99, LOT 8A
BK. 26247, PG. 75

N/F
LEIGH S. KELLIS
131 SPURWINK RD.
MAP R99, LOT 8
BK. 33585, PG. 269

GRID

N/F
JAMES RIECHEL
MAUREEN A. BURNS
138 SPURWINK RD.
MAP R99, LOT 45
BK. 33203, PG. 220

ORIOLE WAY
(PRIVATE-NO WIDTH)

N/F
DANIEL R. WARREN
144 SPURWINK RD.
MAP R98, LOT 13
BK. 32855, PG. 303

N/F
MICHAEL J. DIGGINS, SR.
KATHRYN M. DIGGINS
146 SPURWINK RD.
MAP R98, LOT 14
BK. 15341, PG. 270

15" C.M.P. INV.=13.60'

6"X6" GRANITE W/DH, 2" B.G.

0.27'

15" C.M.P. INV.=13.05'

24" C.M.P. INV.=8.59'

DITCH

12" C.M.P. INV.=13.33'

12" C.M.P. INV.=14.02'

PAVED DRIVE

38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00

PI: 38+56.33

N 42°09'58" E 256.31'

PI: 41+12.64

N 38°02'28" E 518.79'

1" IRON PIPE 1" A.G.

GRAVEL DRIVE

SIGN STARBIRD ROAD PRIVATE

3/4" IRON PIPE 3" B.G.

6"X6" GRANITE W/DH, 10" B.G. (HELD)

24" C.M.P. INV.=7.99'

SIGN RIGHT CURVE AHEAD

BRICK

SIGN WILEY WAY

#4 REBAR 12" A.G.

N/F
JO HIGHT
137 SPURWINK RD.
MAP R99, LOT 1
BK. 34522, PG. 226

STARBIRD ROAD
(PRIVATE) PB. 131, PG. 32

50.0'

N/F
JO HIGHT
5 STARBIRD RD.
MAP R99, LOT 7A
BK. 34522, PG. 224

WILEY WAY
(PRIVATE) PB. 198, PG. 330

N/F
DIEGO SILVA
MARGARET BATTAT
143 SPURWINK RD.
MAP R98, LOT 9
BK. 33989, PG. 153

GRAPHIC SCALE
25 0 25 50
(IN FEET)
1 INCH = 25 FT.

SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
PROFESSIONAL LAND SURVEYOR

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SHEET 4 OF 8

FOR REGISTRY USE ONLY

GRID

N/F
HANKS REAL ESTATE HOLDINGS, LLC
150 SPURWINK RD.
MAP R98, LOT 15
BK. 37781, PG. 303

N/F
ALAN PEOPLES
ELIZABETH PEOPLES
152 SPURWINK RD.
MAP R98, LOT 16
BK. 8673, PG. 329

N/F
CRAIG Y. CLARK
149 SPURWINK RD.
MAP R98, LOT 8
BK. 16225, PG. 71

N/F
BRIAN J. & MARIANNE E. HARRINGTON
151 SPURWINK RD.
MAP R98, LOT 8A
BK. 35646, PG. 249

N/F
UNITED STATES OF AMERICA
155 SPURWINK RD.
MAP R98, LOT 7
BK. 4232, PG. 230

N/F
TERRY SKILLINGS
154 SPURWINK RD.
MAP R98, LOT 16A
BK. 4140, PG. 197

N/F
TERRENCE C. BROWN
TAMMY L. BROWN
160 SPURWINK RD.
MAP R98, LOT 17
BK. 18103, PG. 208

N/F
JAMES A. FALT
LOUISE E. FALT
162 SPURWINK RD.
MAP R98, LOT 18
BK. 4677, PG. 106

N/F
AUDREY E. JOHNSON
164 SPURWINK RD.
MAP R98, LOT 19
BK. 12173, PG. 226

N/F
DAVID N. PACKHEM, JR.
KAREN D. PACKHEM
163 SPURWINK RD.
MAP R98, LOT 6
BK. 32864, PG. 287

N/F
STEVEN P. GIFFORD
JULIE A. TUPPER
165 SPURWINK RD.
MAP R98, LOT 5
BK. 28655, PG. 184

CMP CULVERT BURIED
DITCH
12" CMP INV. 21.03'
6"X6" GRANITE W/DH, FLUSH
SIGN HANKS LUNCH
PAVED DRIVE
SIGN BLIND DRIVEWAY
SIGN 35 MPH
LEDGE OUTCROP
6"X6" GRANITE W/DH, 1" B.G. (HELD)
N 48°40'58" E 183.11'
PI: 48+14.55
PI: 46+31.43
TBM: 22.03'
SIGN ROTARY CLUB
6"X6" GRANITE W/DH, 10" B.G. DISTURBED
GRAVEL DRIVE
N 59°22'58" E 872.50'
SIGN NATIONAL WILDLIFE REFUGE
12" HDPE INV.=14.80'
12" HDPE INV.=15.90'
12" HDPE INV.=14.59'
12" HDPE INV.=14.28'
24" CMP INV.=13.74'
6"X6" GRANITE W/DH, 4" B.G.
VERTICAL WATER PIPE VENT
24" CMP INV.=12.56'
6"X6" GRANITE W/DH, 2" B.G.
SIGN REFLECTOR
PI: 56+87.05
N 70°29'58" E 370.13'
BOLLARD 9"X9" GRANITE POST
6"X6" GRANITE W/DH, 14" B.G.
6"X6" GRANITE W/DH, 2" B.G.
PI: 60+57.17

GRAPHIC SCALE
25 0 25 50
(IN FEET)
1 INCH = 25 FT.

SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
REGISTERED PROFESSIONAL LAND SURVEYOR

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SCARBOROUGH, MAINE 04070
FOR:
TOWN OF SCARBOROUGH
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SPP	NSE
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SHEET SIZE	SCALE
24" X 36"	1" = 25'

SHEET 5 OF 8

FOR REGISTRY USE ONLY

GRID

N/F
JAMES R. FINLEY
RHONDA FINLEY
166 SPURWINK RD.
MAP R98, LOT 20
BK. 12272, PG. 218

N/F
TERRENCE C. BROWN
TAMMY L. BROWN
174 SPURWINK RD.
MAP R98, LOT 21
BK. 21800, PG. 268

N/F
THOMAS BARR, III
176 SPURWINK RD.
MAP R98, LOT 22
BK. 29880, PG. 73

PAVED DRIVE

CAPPED #5 REBAR "PLS 855", 2" B.G.

SIGN WINDING ROAD

BOLLARD 6"X6" GRANITE

BOLLARD 4"X4" WOOD

STONE RETAINING WALL

N 62°12'58" E 188.19'

62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00

PI: 62+45.37

N 52°34'58" E 228.00'

PI: 64+73.37

N 45°21'58" E 576.33'

TBM: 29.48'

OHU W

STONE WALL

GRAVEL DRIVE

0.33'

6"X6" GRANITE W/DH, 2" B.G.

1" IRON PIPE 2" A.G.

N/F
ERIC JURGENSON
CYNTHIA JURGENSON
169 SPURWINK RD.
MAP R98, LOT 4
BK. 6192, PG. 49

N/F
SYLAS JENNINGS HATCH
171 SPURWINK RD.
MAP R98, LOT 3
BK. 37589, PG. 43

N/F
ALEXANDER TIMPSON
SUSAN L. TIMPSON
173 SPURWINK RD.
MAP R98, LOT 2
BK. 9852, PG. 341

SIGN CURVE AHEAD

N/F
MICHELLE R. CORRY
STEPHEN P. CORRY
175 SPURWINK RD.
MAP R98, LOT 31
BK. 27363, PG. 93

IVORY HILL LANE
(PRIVATE) 50' WIDE - PB 147, PG. 37

STANFORD LANE
(PRIVATE, WIDTH VARIES)
PBE 216, PG. 344

N/F
ANTHONY L. GIBBONS, JR.
ROBERTA M. GIBBONS
2 IVORY HILL LANE
MAP R98, LOT 23F
BK. 13132, PG. 101

N/F
MARC S. AGGER
180 SPURWINK RD.
MAP R98, LOT 24
BK. 38361, PG. 254

N/F
JAMES A. MULLEN
JAMIE L. RODGERS
182 SPURWINK RD.
MAP R98, LOT 23
BK. 16785, PG. 328

N/F
ELAINE GIBBONS
186 SPURWINK RD.
MAP R98, LOT 25
BK. 3074, PG. 546

6"X6" GRANITE W/DH, 8" B.G. (HELD)

6"X6" GRANITE W/DH, 4" B.G. (HELD)

SIGN IVORY HILL LANE

GRAVEL DRIVE

PAVED DRIVE

PAVED WALK

12" CMP INV.=31.35'

12" CMP INV.=31.32'

DITCH

70+00 71+00 72+00 73+00 74+00 75+00 76+00

PI: 70+49.70

N 53°54'59" E 235.01'

PI: 72+84.71

N 61°57'13" E 512.51'

TBM: 40.40'

6"X6" GRANITE W/DH, 2" A.G. (HELD)

SIGN SCHOOL BUS STOP AHEAD BLIND DRIVEWAY AHEAD

N/F
CYNTHIA M. BURNHAM
177 SPURWINK RD.
MAP R98, LOT 30
BK. 28918, PG. 167

N/F
WILLIAM F. ROORBACH
JULIET B. KARELSEN
179 SPURWINK RD.
MAP R98, LOT 29
BK. 32643, PG. 41

N/F
MATTHEW L. POWELL
SUSAN M. POWELL
181 SPURWINK RD.
MAP R98, LOT 28
BK. 24758, PG. 155

GRAPHIC SCALE
25 0 25 50
(IN FEET)
1 INCH = 25 FT.

SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
PROFESSIONAL LAND SURVEYOR

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SPP	NSE
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SHEET SIZE	SCALE
24" X 36"	1" = 25'

SHEET 6 OF 8

FOR REGISTRY USE ONLY

GRID

STANFORD LANE
(PRIVATE, WIDTH VARIES)
PB 216, PG. 344

N/F
STANFORD FAMILY TRUST
194 SPURWINK RD.
MAP R97, LOT 2
BK. 26388, PG. 50

CAPPED #5 REBAR
"PLS 1038", FLUSH

N/F
STEPHANIE D. WYATT
JERAMY M. WYATT
198 SPURWINK RD.
MAP R97, LOT 3
BK. 34383, PG. 173

STONE RETAINING WALL

SIGN
35 MPH

6"X6" GRANITE
W/DH, FLUSH
(HELD)

CONC. WALK

PAVED DRIVE

OHU

77+00 78+00 79+00 80+00 81+00 82+00 83+00 84+00

N 61°57'13" E 512.51'

PI: 77+97.22

N 66°43'13" E 355.63'

PI: 81+52.85

N 59°58'44" E 667.97'

6"X6" GRANITE
W/DH, FLUSH

LEDGE OUTCROP

SHED

N/F
MATTHEW L. POWELL
SUSAN M. POWELL
187 SPURWINK RD.
MAP R97, LOT 25
BK. 27890, PG. 19

N/F
BRENDA A. HARRISON
AMY L. HARRISON
191 SPURWINK RD.
MAP R97, LOT 24
BK. 36393, PG. 135

PAVED WALK

SIGN
STANFORD
MAINTENANCE
SERVICES

3/4" IRON PIPE
BENT, FLUSH

N/F
ROBERT L. CARPENTER
CAROL B. CARPENTER
193 SPURWINK RD.
MAP R97, LOT 23
BK. 25131, PG. 256

N/F
LYDIA A. FINN
DAVID JOPP
197 SPURWINK RD.
MAP R97, LOT 21
BK. 34027, PG. 313

DITC

GRAVEL DRIVE

LEDGE

24" RCP
INV.=2.77'

N/F
WADE AUSTIN RITCHEY
199 SPURWINK RD.
MAP R97, LOT 20
BK. 36211, PG. 50

GRID

N/F
NOREEN ANN GORHAM
202 SPURWINK RD.
MAP R97, LOT 4
BK. 35945, PG. 140

N/F
JOSEPH A. THRIFT
JANE F. THRIFT
6 SAWYER ST.
MAP R97, LOT 6
BK. 13290, PG. 99

SAWYER STREET
(PUBLIC, 49.5' WIDE)

49.50'

SIGNS
NATIONAL WILDLIFE REFUGE

N/F
UNITED STATES OF AMERICA
00 SPURWINK RD.
MAP R97, LOT 11A
BK. 9661, PG. 219

STA.: ±90+17.3
O/S: ±24.75

SIGN
SAWYER STREET

6"X6" GRANITE
W/DH, FLUSH

SIGN
ROUTE 77 SOUTH
LEFT CURVE AHEAD

SIGN
NATIONAL WILDLIFE REFUGE

18" CMP
INV.=18.75'

LEDGE
STONE PILE

SIGN
STOP

STA.: ±89+66.5
O/S: ±24.75

6"X6" GRANITE
W/DH, FLUSH
(HELD)

LEDGE

12" HDPE
INV.=13.85"

DITCH

12" HDPE
INV.=16.19'

CAPPED #5 REBAR
"PLS 779", 4" A.G.

12" HDPE
INV.=19.62'

12" HDPE
INV.=21.01'

SIGN
ROUTE 77
SOUTH

SAWYER STREET
0+00

10°39'0"

90+00

N: 273127.53
E: 2927666.87

STA.: 89+97.58
O/S: 0.00

PI: 90+52.29

91+00

N 72°44'17" E 137.93'

91+90.21

92+00

85+00 86+00 87+00 88+00 89+00

N 59°58'44" E 667.97'

PI: 88+20.81

N 50°51'17" E 231.47'

3/4" IRON PIPE
BENT, 4" B.G.

SIGN
ROTARY INTERNATIONAL 200

SIGN
RIGHT CURVE AHEAD
BLIND DRIVE AHEAD

APPROX.
LEECH FIELD

1/2" THREADED ROD
24" A.G.

RIP-RAP

PORTLAND WATER DISTRICT EASEMENT

SIGN
NATIONAL WILDLIFE REFUGE

SIGN
ROUTE 77 NORTH

18" CMP
INV.=18.75'

6"X6" GRANITE
W/DH, 8" B.G.
(HELD)

SIGN
NATIONAL WILDLIFE REFUGE

CEMETERY

N/F
RALPH LORFANO, JR.
DONNA LORFANO
203 SPURWINK RD.
MAP R97, LOT 19
BK. 3339, PG. 228

N/F
JANE W. ROWELL
KENNETH E. ROWELL
201 SPURWINK RD.
MAP R97, LOT 20A
BK. 16841, PG. 15

N/F
PAUL S. VISICH
DIANE M. VISICH
205 SPURWINK RD.
MAP R97, LOT 18
BK. 28911, PG. 317

N/F
DENIS P. ROSENBLAD
DELINA I. ROSENBLAD
207 SPURWINK RD.
MAP R97, LOT 17
BK. 11444, PG. 181

N/F
UNITED STATES OF AMERICA
0 SPURWINK RD.
MAP R97, LOT 19A
BK. 9661, PG. 253

GRAPHIC SCALE
25 0 25 50
(IN FEET)
1 INCH = 25 FT.

SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
PROFESSIONAL LAND SURVEYOR

REV.:	BY:	DATE:	STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION AND ALTERATIONS, AFFIXED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK.

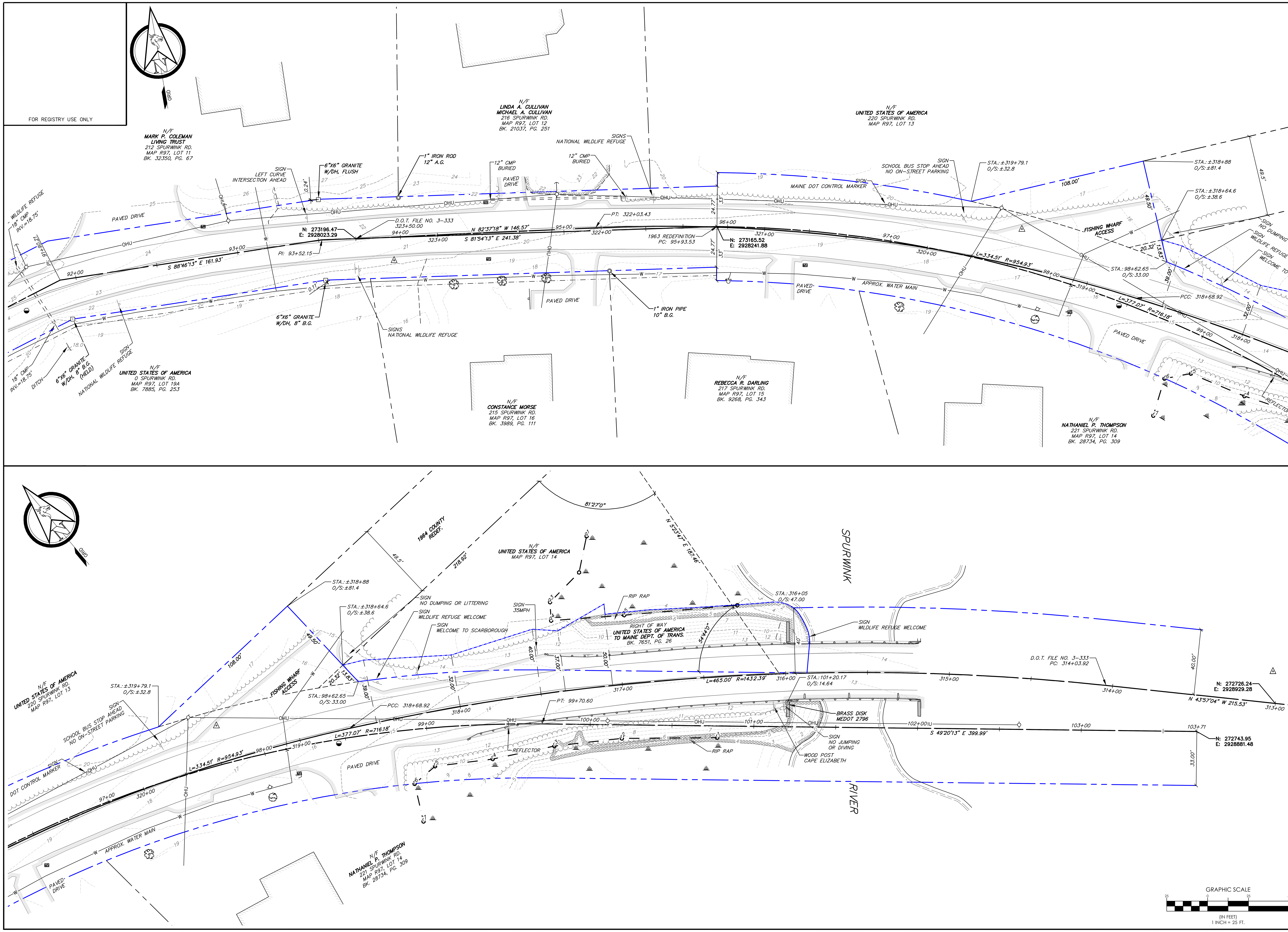
NORTHERN SURVEY ENGINEERING
207.440.3487
41 CHURCH ROAD, BRUNSWICK, MAINE 04011
www.northernsurveyengineering.com

BOUNDARY & EXISTING CONDITIONS SURVEY
OF:
ROUTE 77 - SPURWINK ROAD
OCEAN AVENUE TO CAPE ELIZABETH
SCARBOROUGH, MAINE 04070
FOR:
TOWN OF SCARBOROUGH
259 U.S. ROUTE 1
SCARBOROUGH, MAINE 04070

RIGHT OF WAY RECORD:
CUMBERLAND COUNTY COMMISSIONER
VOL. 24D, PG. 1349
VOL. 250, PG. 1498

DRAWN	CHECKED
SPP	NSE
PROJECT NO.	DATE
21102	01/24/22
SHEET SIZE	SCALE
24" X 36"	1" = 25'

SHEET 7 OF 8



SEAN P. PIERCE, PLS 2517

STATE OF MAINE
SEAN P. PIERCE
2517
PROFESSIONAL LAND SURVEYOR

REV:	BY:	DATE:	STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK.

NORSE
NORTHERN SURVEY ENGINEERING
207.440.3487
41 CHURCH ROAD, BRUNSWICK, MAINE 04011
www.northernsurveyengineering.com

BOUNDARY & EXISTING CONDITIONS SURVEY
OF:
ROUTE 77 - SPURWINK ROAD
OCEAN AVENUE TO CAPE ELIZABETH
SCARBOROUGH, MAINE 04070
FOR:
TOWN OF SCARBOROUGH
259 U.S. ROUTE 1
SCARBOROUGH, MAINE 04070

RIGHT OF WAY RECORD:
CUMBERLAND COUNTY COMMISIONER
VOL. 24D, PG. 1349
VOL. 25D, PG. 1498

DRAWN	CHECKED
SPP	NSE
PROJECT NO.	DATE
21102	01/24/22
SHEET SIZE	SCALE
24" X 36"	1" = 25'

ALIGNMENT CURVE TABLE					
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C–1	1100.00	55.33	N30°00'02.58"E	26+00.00	26+55.33
C–2	500.00	54.66	N34°34'24.95"E	26+55.33	27+09.99

PLEASANT HILL ROAD
STATE AID NO. S-344

SIGN SCARBOROUGH MARSH

N/F
JOHN D. MCCLEAN
JUNE L. MCCLEAN
122 SPURWINK RD.
MAP R99, LOT 48
BK. 12515, PG. 180

6" WIDE BREAK IN CURB FOR DRAINAGE

REMOVE AND RESET SIGNS AS NEEDED (TYP.)

SLIPFORM CONCRETE CURB (TYP.) (STA. 27+34 TO STA. 32+15)

SIGNS REFLECTOR

SIGN EVACUATION ROUTE

BIT. CURB

STATION EQUATION:
STA. 27+55, 0.00' PHASE 2 =
STA. 27+55, 3.39' LT. PHASE 1
MATCH PHASE 1 WORK
BUTT JOINT

DECORATIVE ROCK WALL

DECORATIVE ROCK RETAINING WALL

LANDSCAPING

PAVED DRIVE

N/F
WESLEY H. FRANKLIN
LYNNE M. PALMER
124 SPURWINK RD.
MAP R99, LOT 47
BK. 13104, PG. 306

REMOVE EXISTING 12" CMP AND REPLACE WITH 12" HDPE (24 LF)
ADJUST INVERTS & INSTALL TO DRAIN DOWNHILL

REMOVE AND RESET MAILBOXES AS NEEDED (TYP.)

INV. IN=22.43'
INV. OUT=22.76'

SIGN CURVE AHEAD WITH MERGING TRAFFIC

STONEWALL

12" CMP

INV. OUT=21.47'

REMOVE EXISTING 12" CMP AND REPLACE WITH 12" HDPE (32 LF)
ADJUST INVERTS & INSTALL TO DRAIN DOWNHILL

INV. IN=23.42'

MATCHLINE SEE SHEET C-202

4" SSWL
4" DYCL
4" SSWL

4' WIDE x 2" THICK, RIGID EPS INSULATION (R10) OVER WATERMAIN WHERE COVER IS LESS THAN 5' (STA. 29+00 TO STA. 31+50) SEE DETAIL SHEET C-502

SB-6
SB-7

SIGN 35 MPH

SIGN ROUTE 77 NORTH

SIGN – INTERSECTION SPURWINK ROAD PLEASANT HILL ROAD

SIGN REFLECTOR

PCC STA. 26+55.33

PT STA. 27+09.99

PC STA. 33+05.93

ASPHALT WALKWAY

FENCE

LEDGE

OHU

N/F
SUSAN E. WIERNUSZ
MAREK A. WIERNUSZ
117 SPURWINK RD.
MAP R99, LOT 14
BK. 38348, PG. 244

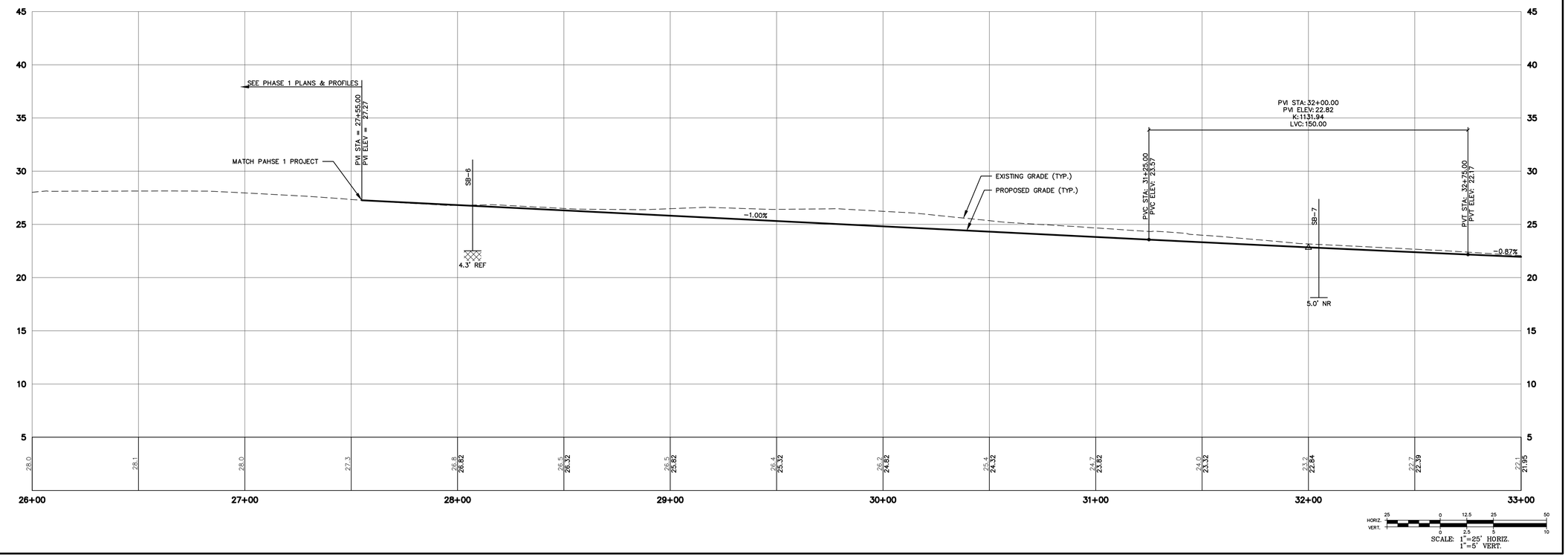
N/F
AARON R. COWELL
SARAH ELIZABETH OVERSTREET
119 SPURWINK RD.
MAP R99, LOT 13
BK. 35386, PG. 274

N/F
DEAN M. FORD, SR.
121 SPURWINK RD.
MAP R99, LOT 12
BK. 32710, PG. 67

N/F
JAMES D. JARBOE
123 SPURWINK RD.
MAP R99, LOT 11
BK. 32945, PG. 25

N/F
SCOTT EAGER
127 SPURWINK RD.
MAP R99, LOT 10
BK. 32828, PG. 184

25 0 12.5 25 50
1 inch = 25' ft.



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PETER J. DALFONSO No. 4100 LICENSED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 PP.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

PLAN & PROFILE STA. 26+00 TO STA. 33+00

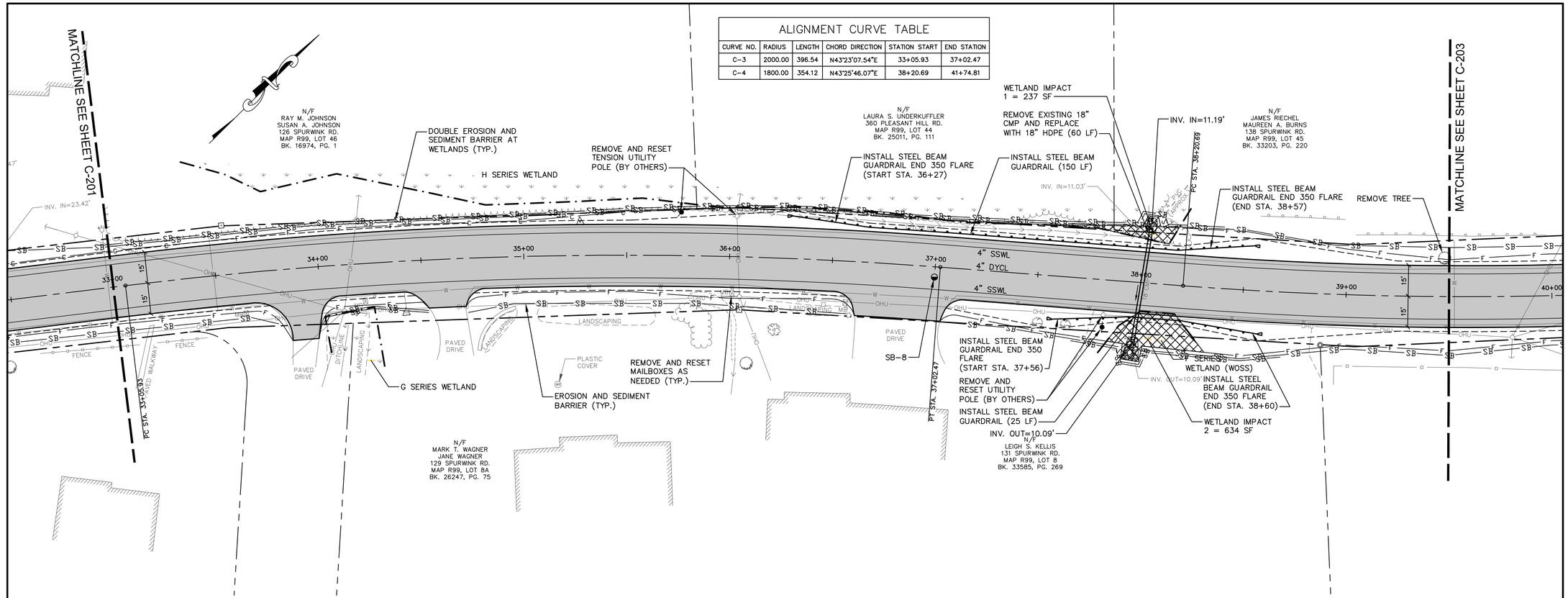
SHEET NO:

C-201

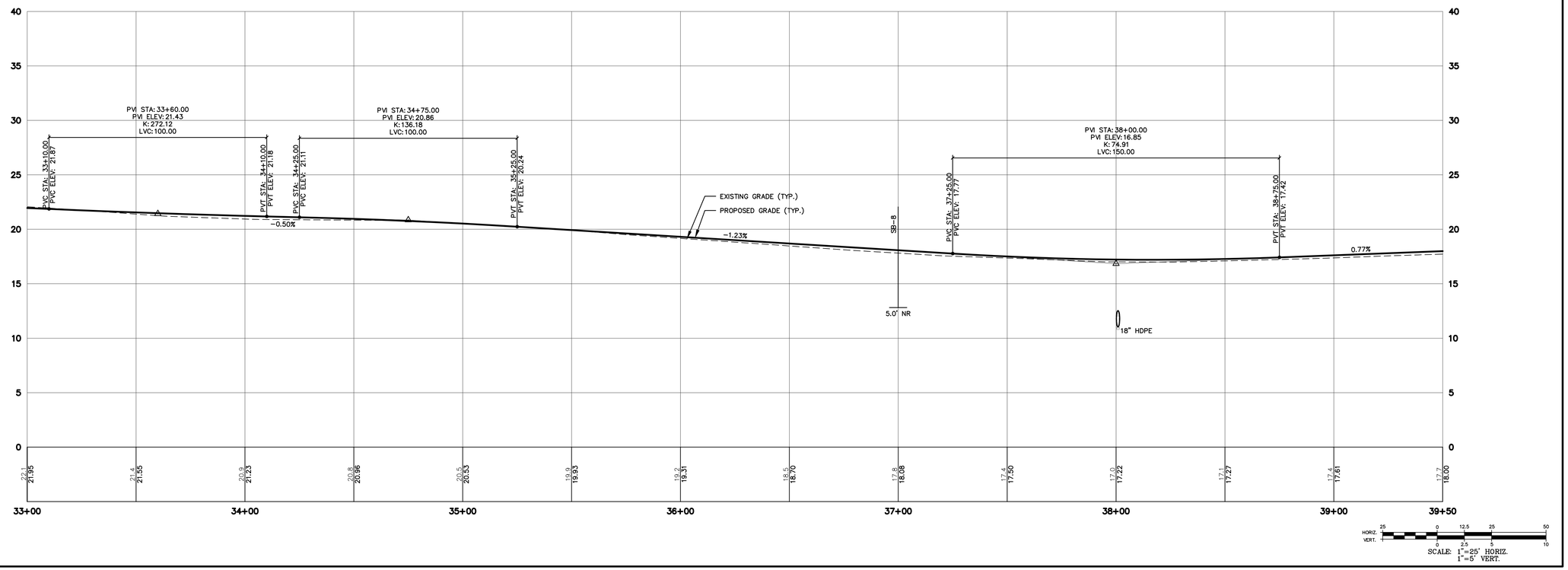
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ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-3	2000.00	396.54	N43°23'07.54"E	33+05.93	37+02.47
C-4	1800.00	354.12	N43°25'46.07"E	38+20.69	41+74.81



1 inch = 25' ft.



HORIZ. 25 0 12.5 25 50
VERT. 0 2.5 5 10

SCALE: 1"=25' HORIZ.
1"=5' VERT.

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

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SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

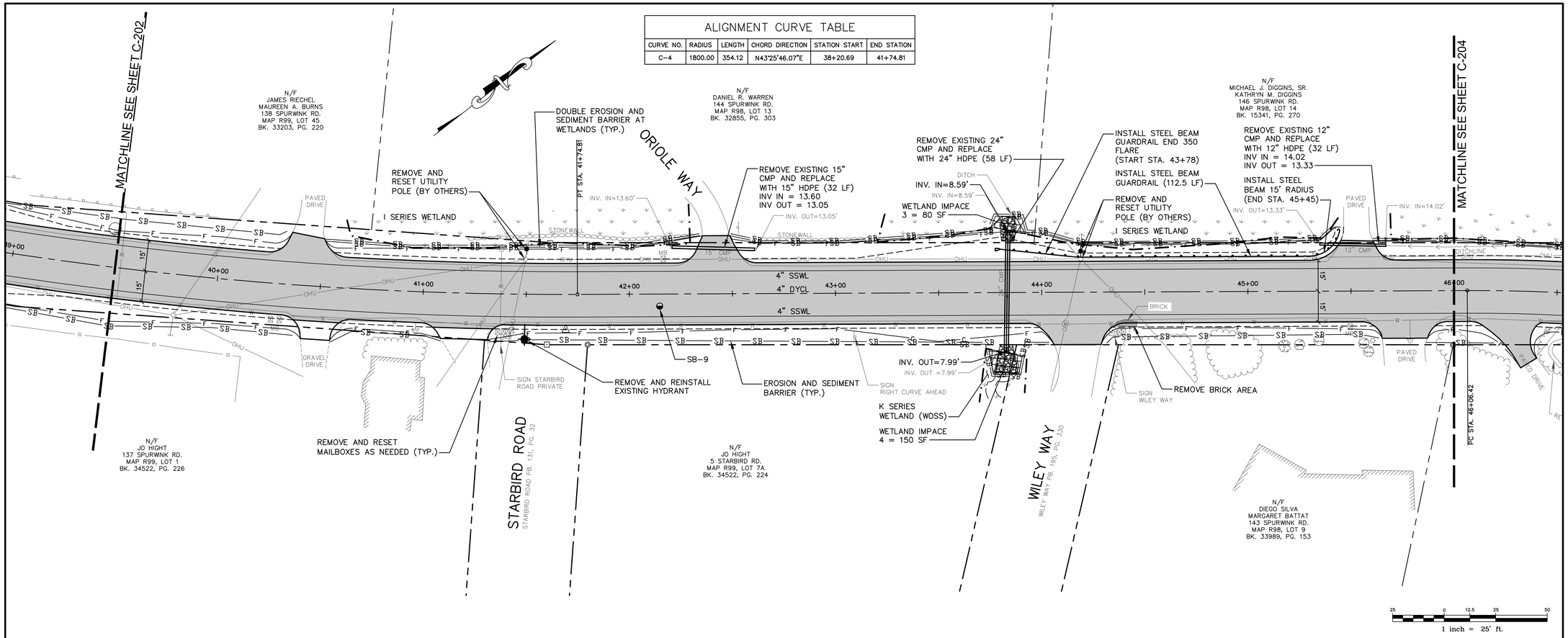
PLAN & PROFILE STA. 33+00 TO STA. 39+50

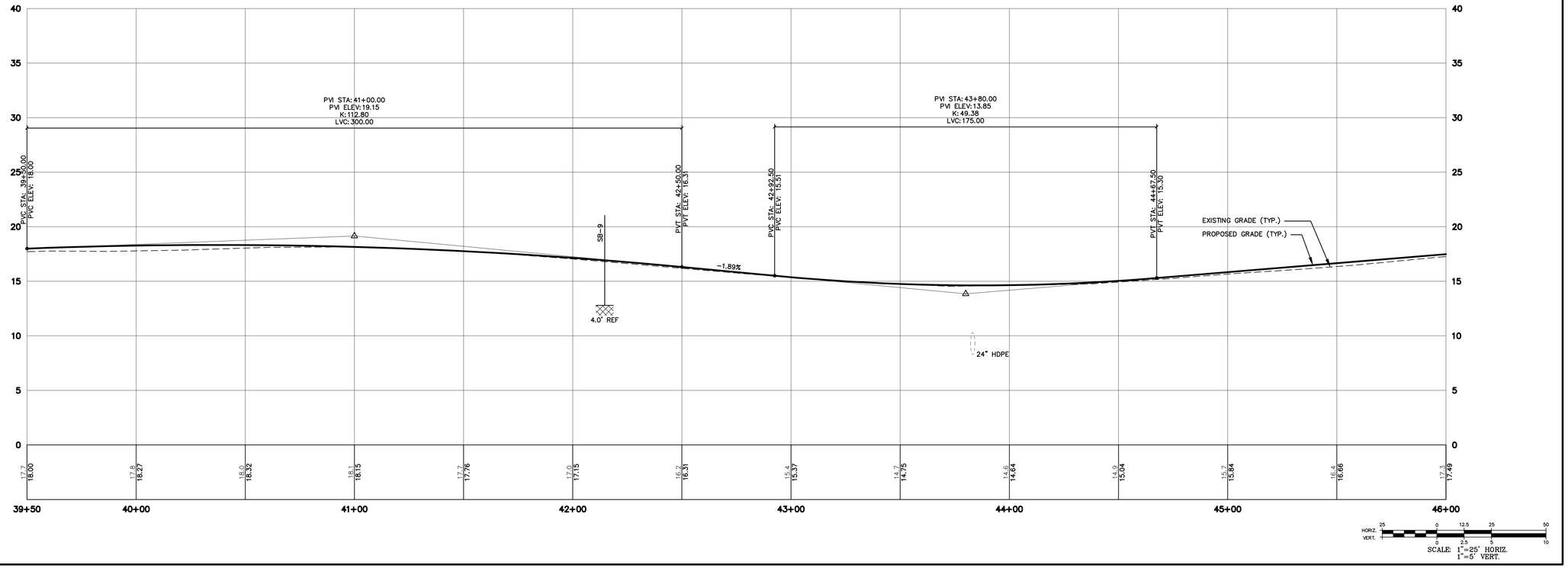
SHEET NO:

C-202

M:\Civil Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 PP.dwg 3/10/2026 1:14:43 PM

ALIGNMENT CURVE TABLE					
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-4	1800.00	354.12	N43°25'46.07"E	38+20.69	41+74.81





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STATE OF MAINE
PETER J. DALFONSO
No. 4100
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3/10/2026

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PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

PLAN & PROFILE STA. 39+50 TO STA. 46+00

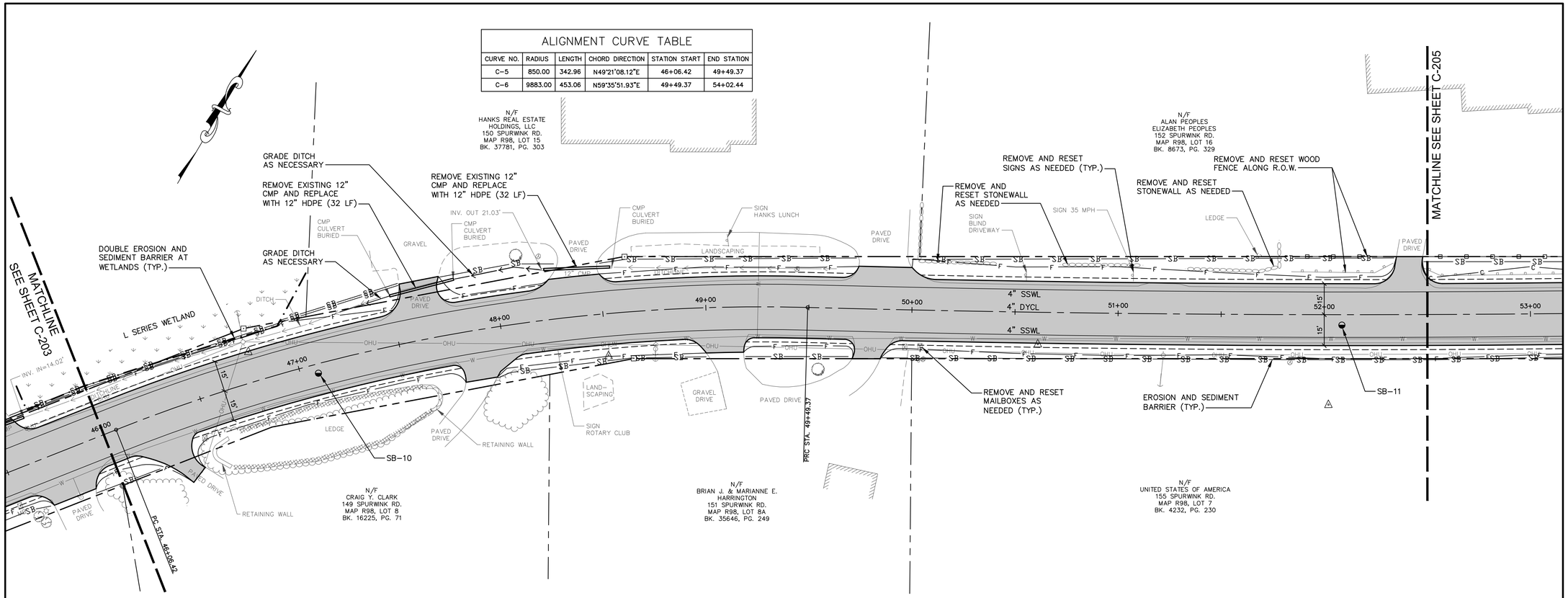
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C-203

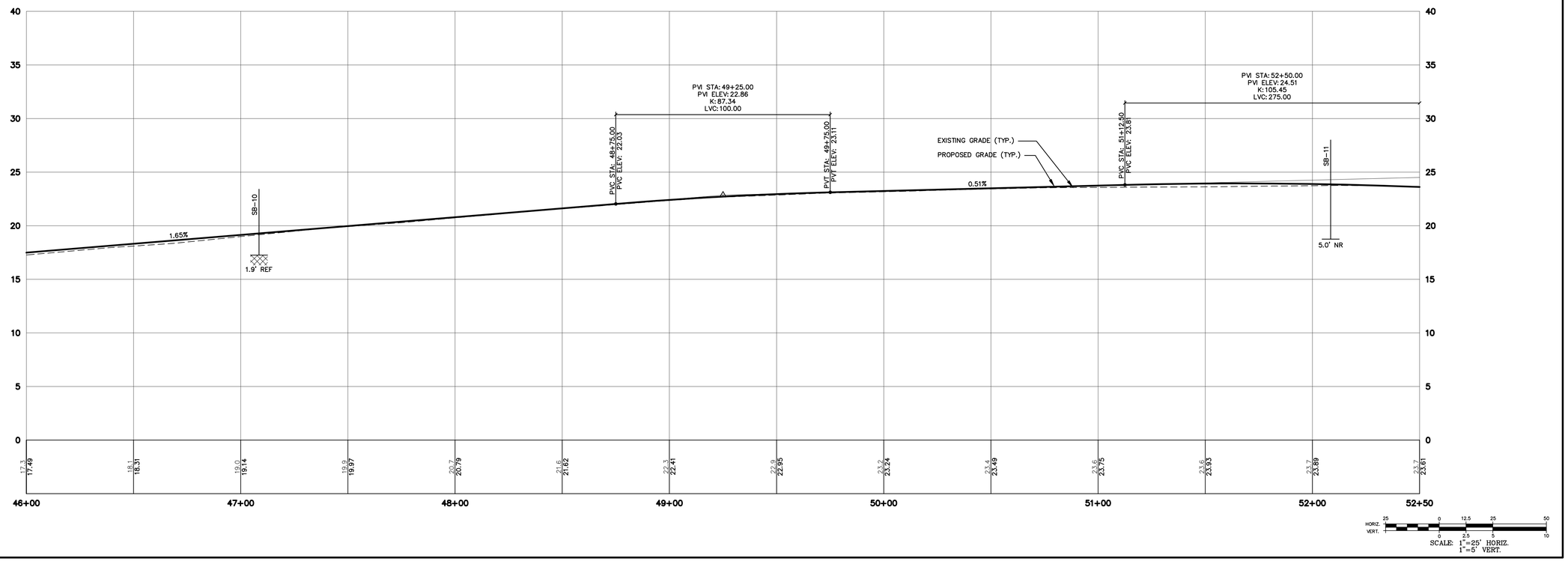
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ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-5	850.00	342.96	N49°21'08.12"E	46+06.42	49+49.37
C-6	9883.00	453.06	N59°35'51.93"E	49+49.37	54+02.44



1 inch = 25' ft.



HORIZ. 25 0 12.5 25 50
VERT. 0 2.5 5 10
SCALE: 1"=25' HORIZ. 1"=5' VERT.

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3/10/2026

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DRAWN BY: DB/JWG
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FILE NAME: 4444-0004 PP.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

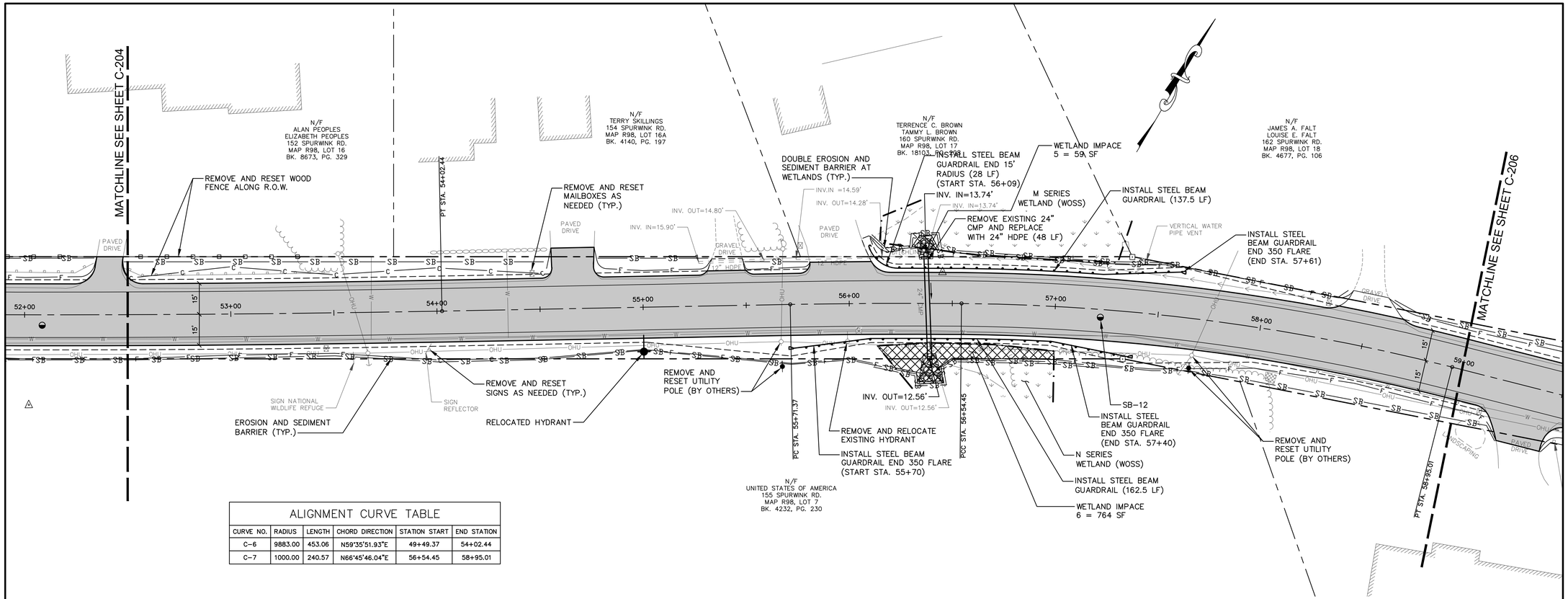
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PLAN & PROFILE STA. 46+00 TO STA. 52+50

SHEET NO:

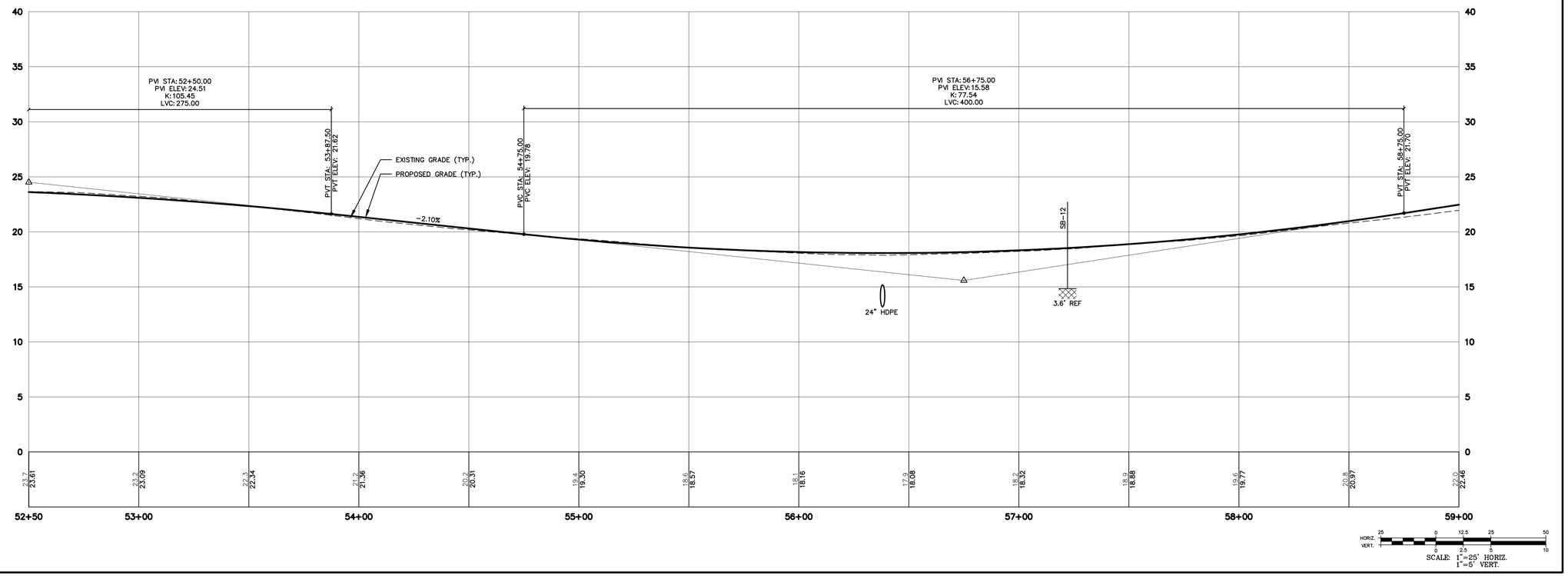
C-204

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ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-6	9883.00	453.06	N59°35'51.93"E	49+49.37	54+02.44
C-7	1000.00	240.57	N66°45'46.04"E	56+54.45	58+95.01



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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 PP.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

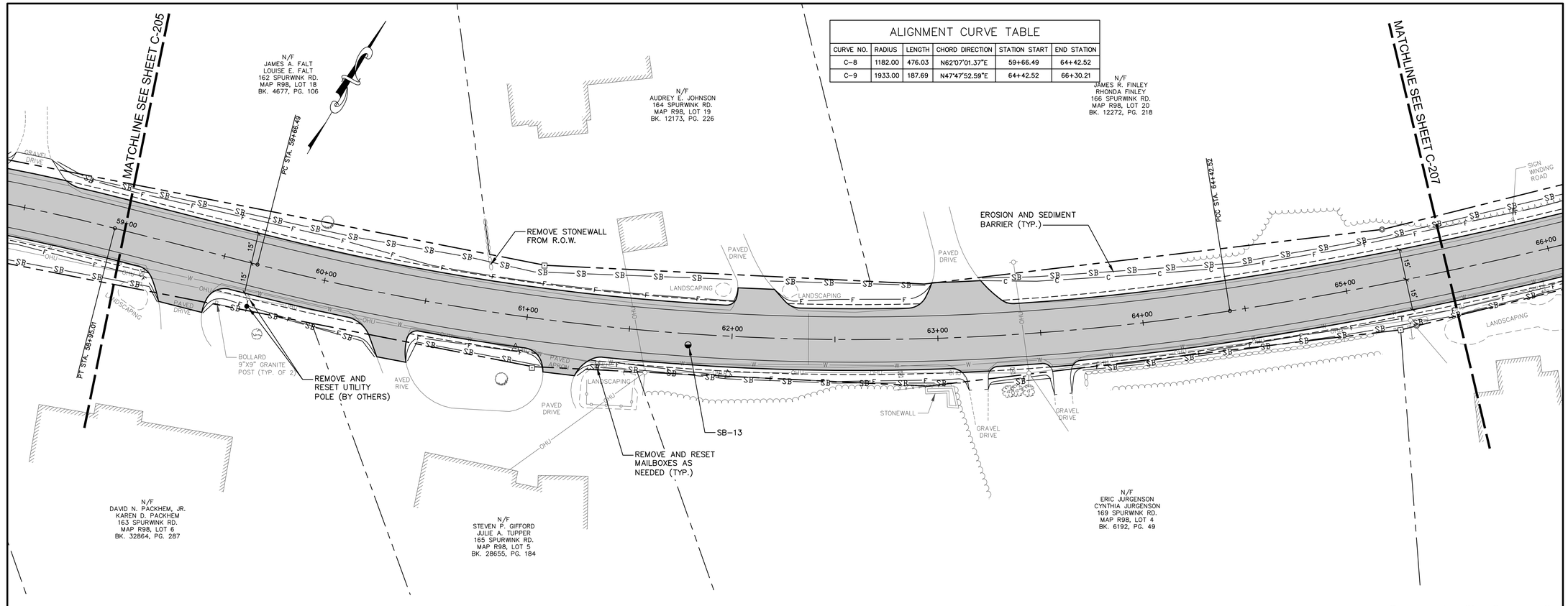
PLAN & PROFILE STA. 52+50 TO STA. 59+00

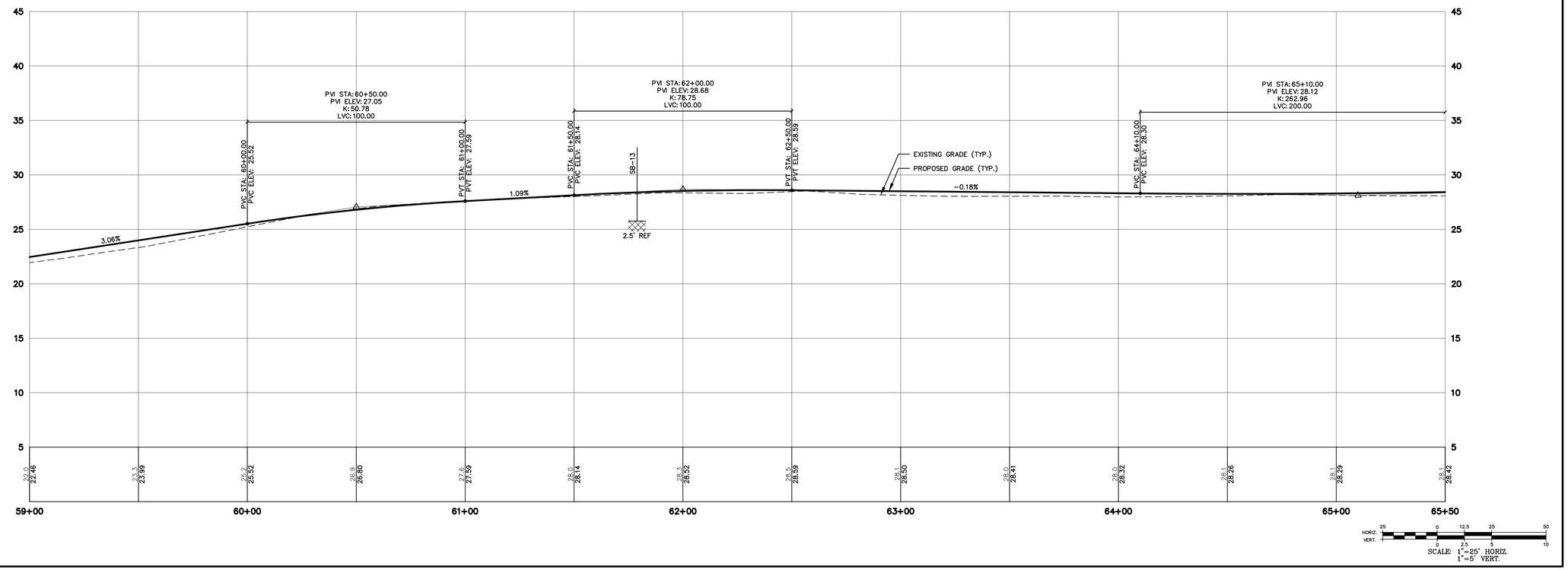
SHEET NO:

C-205

M:\Civil Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 PP.dwg 3/10/2026 1:14:58 PM

ALIGNMENT CURVE TABLE					
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-8	1182.00	476.03	N62°07'01.37"E	59+66.49	64+42.52
C-9	1933.00	187.69	N47°47'52.59"E	64+42.52	66+30.21





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PETER J. DALFONSO No. 4100 LICENSED PROFESSIONAL ENGINEER STATE OF MAINE
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 PP.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

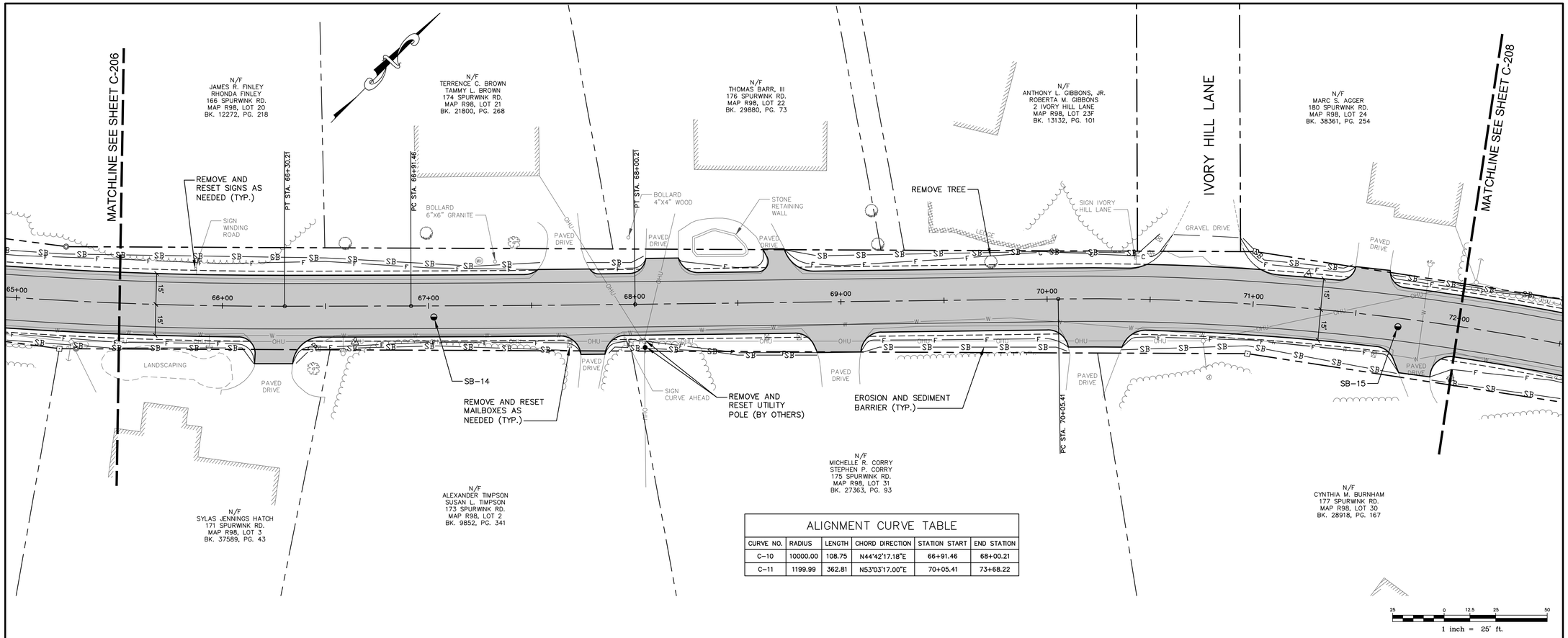
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PLAN & PROFILE STA. 59+00 TO STA. 65+50

SHEET NO:

C-206

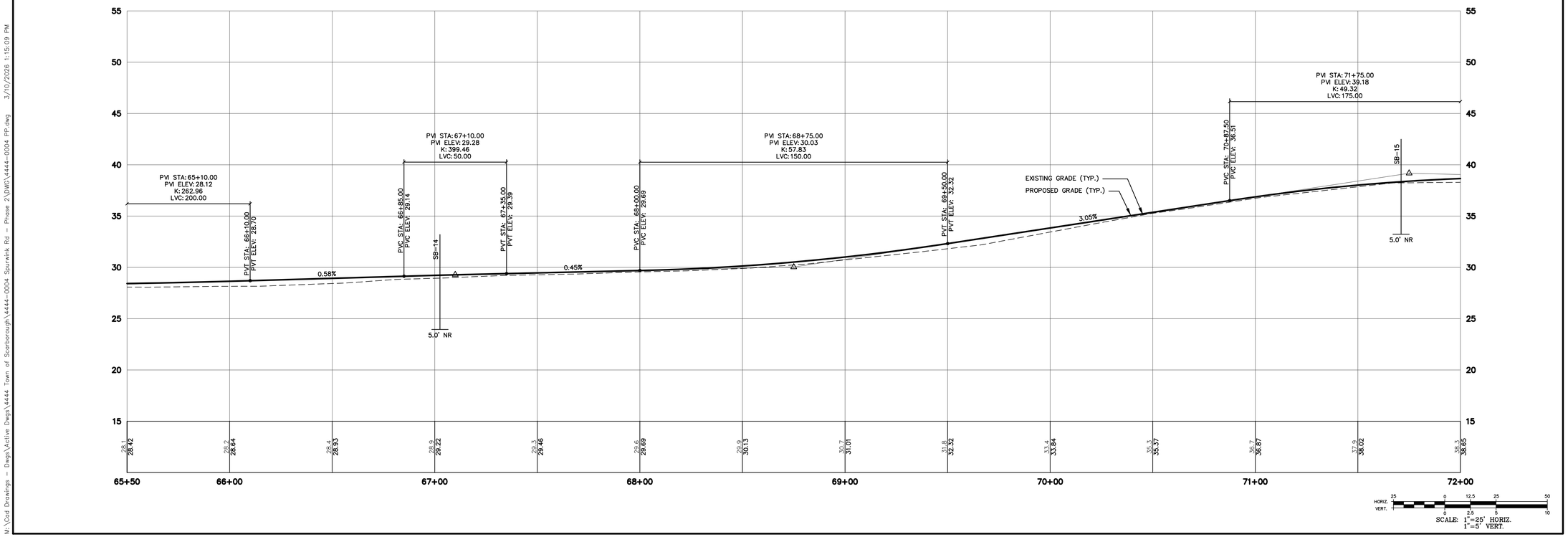
M:\Civil Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 PP.dwg 3/10/2026 1:15:04 PM



ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-10	10000.00	108.75	N44°42'17.18"E	66+91.46	68+00.21
C-11	1199.99	362.81	N53°03'17.00"E	70+05.41	73+68.22

1 inch = 25' ft.



HORIZ. 25 0 12.5 25 50
VERT. 0 2.5 5 10

SCALE: 1"=25' HORIZ.
1"=5' VERT.

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STATE OF MAINE
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REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
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DRAWN BY: DB/JWG
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PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

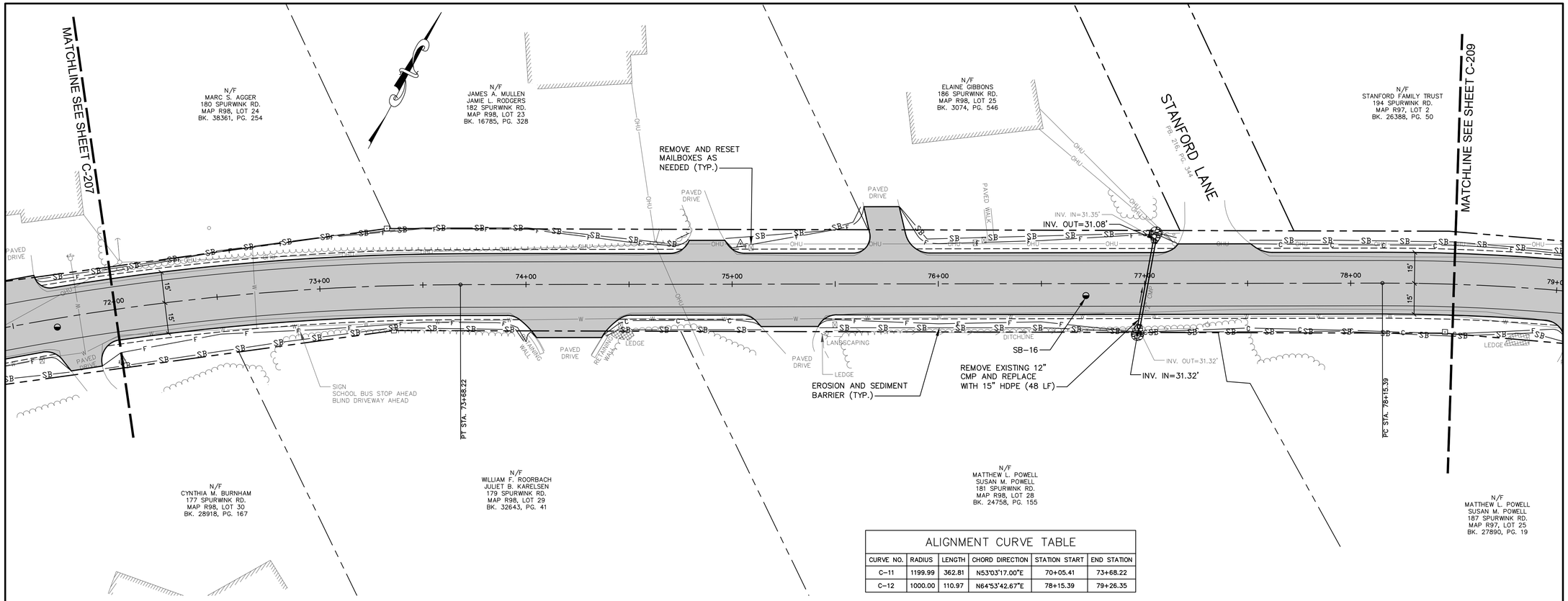
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PLAN & PROFILE STA. 65+50 TO STA. 72+00

SHEET NO:

C-207

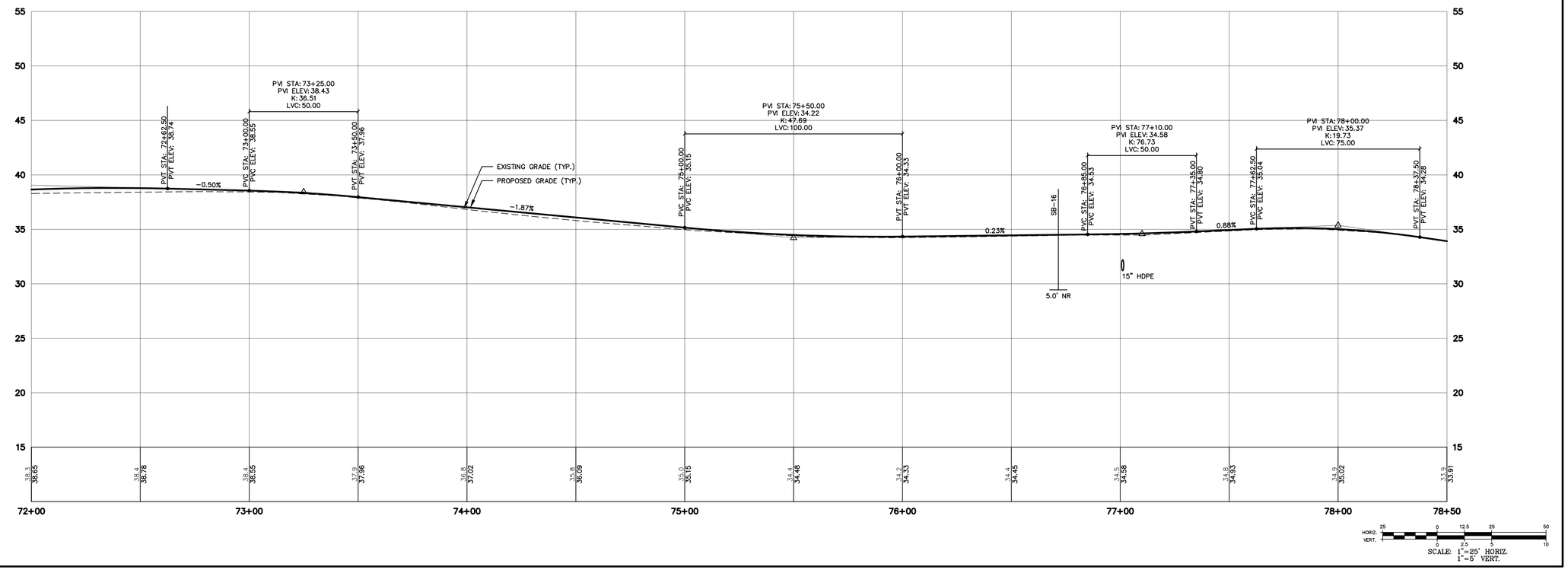
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ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-11	1199.99	362.81	N53°03'17.00"E	70+05.41	73+68.22
C-12	1000.00	110.97	N64°53'42.67"E	78+15.39	79+26.35

25 0 12.5 25 50
1 inch = 25' ft.



HORIZ. 25 0 12.5 25 50
VERT. 0 2.5 5 10
SCALE: 1"=25' HORIZ.
1"=5' VERT.

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IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

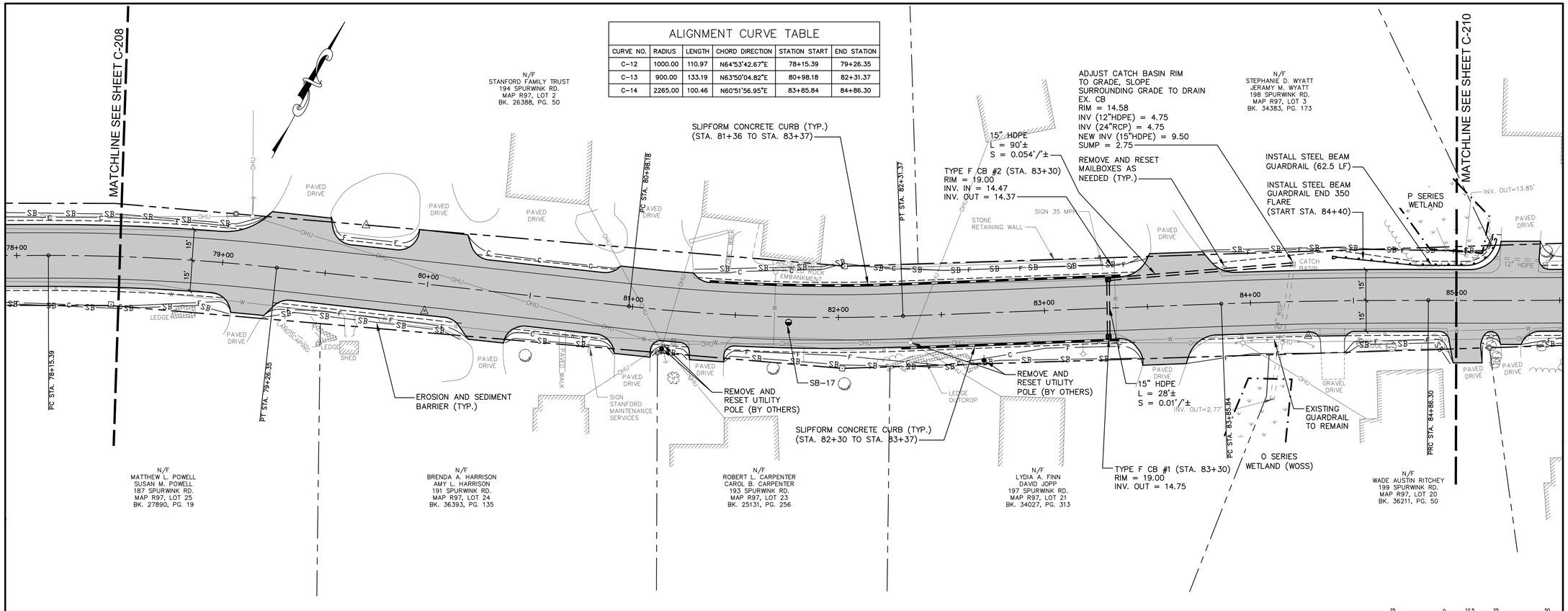
PLAN & PROFILE STA. 72+00 TO STA. 78+50

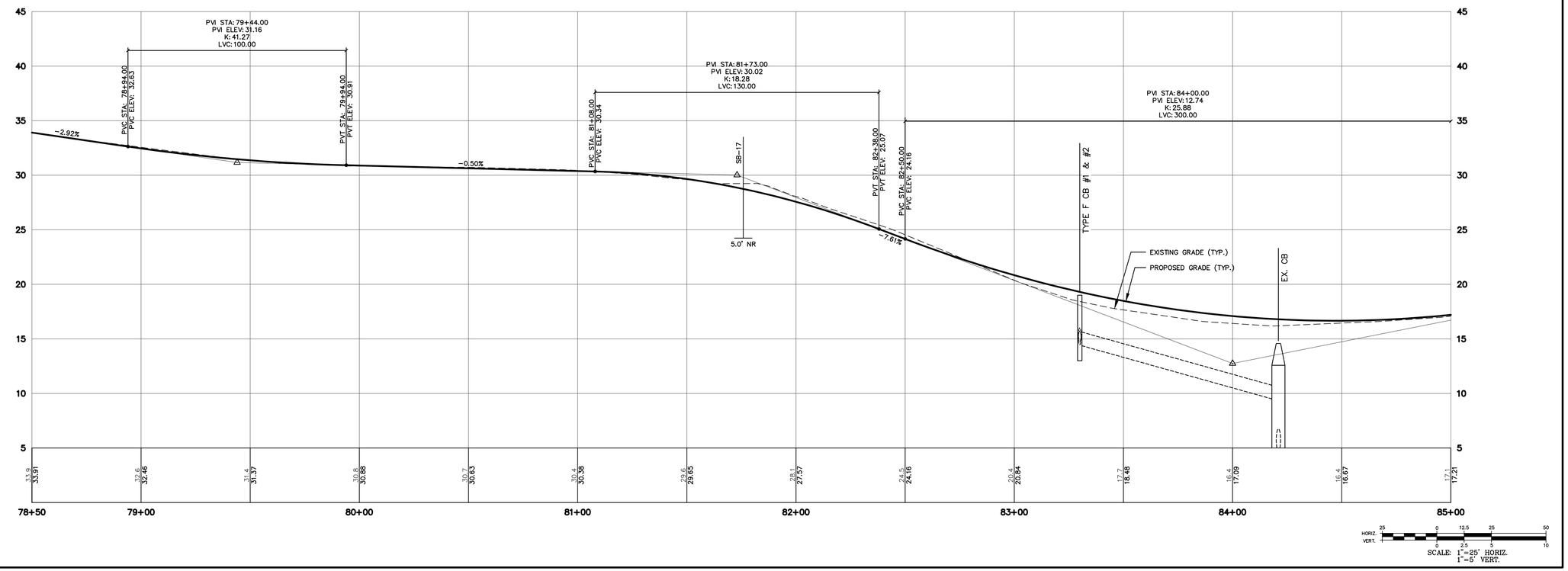
SHEET NO:

C-208

M:\Civil Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 PP.dwg 3/10/2026 1:15:13 PM

ALIGNMENT CURVE TABLE					
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-12	1000.00	110.97	N64°53'42.67"E	78+15.39	79+26.35
C-13	900.00	133.19	N63°50'04.82"E	80+98.18	82+31.37
C-14	2265.00	100.46	N60°51'56.95"E	83+85.84	84+86.30





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PETER J. DALFONSO No. 4100 LICENSED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 PP.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

PLAN & PROFILE STA. 78+50 TO STA. 85+00

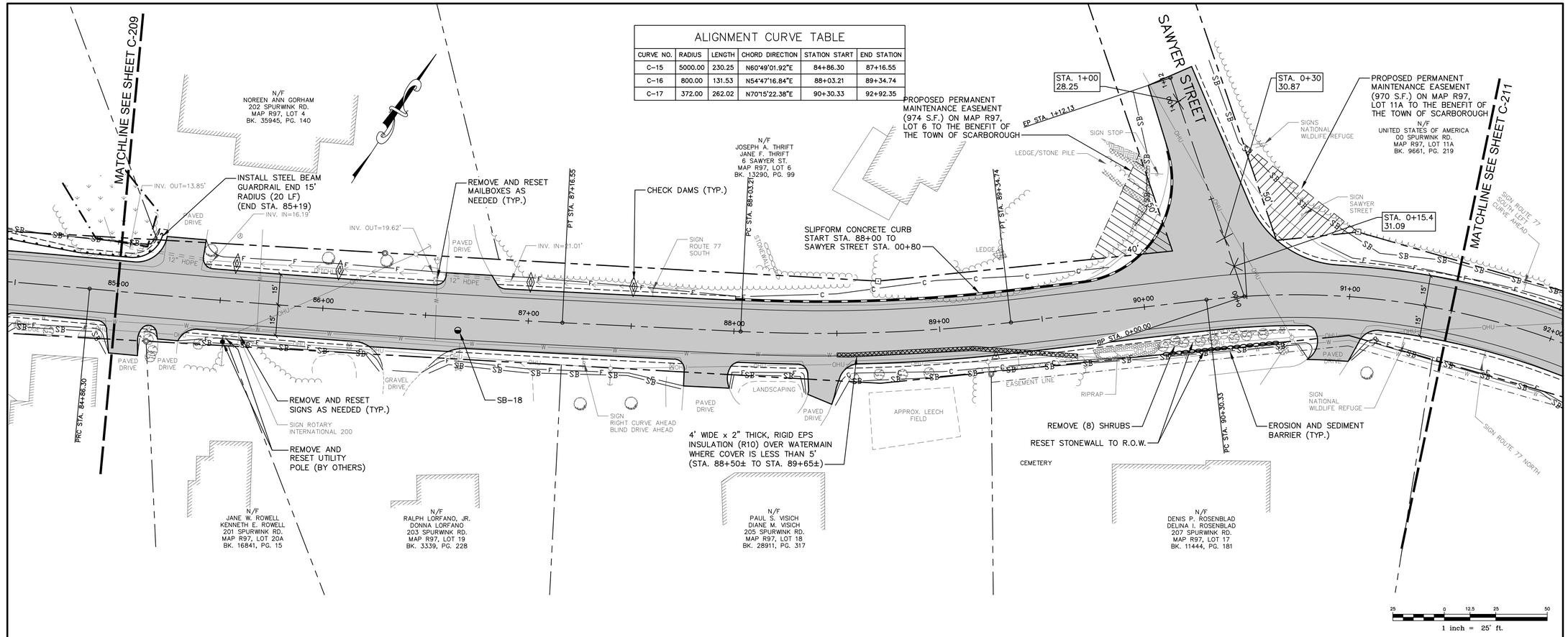
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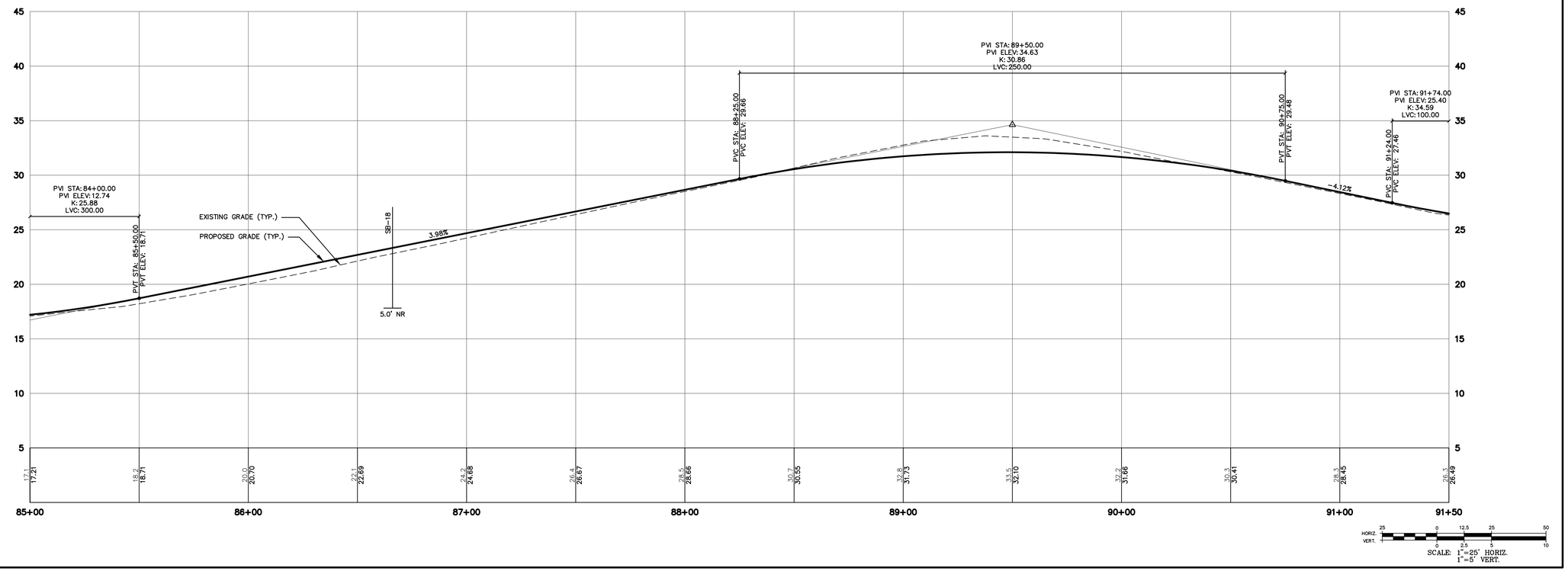
C-209

M:\Civil Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 PP.dwg 3/10/2026 1:15:17 PM

ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C–15	5000.00	230.25	N60°49'01.92"E	84+86.30	87+16.55
C–16	800.00	131.53	N54°47'16.84"E	88+03.21	89+34.74
C–17	372.00	262.02	N70°15'22.38"E	90+30.33	92+92.35





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3/10/2026

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SCARBOROUGH, MAINE

CLIENT:

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20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

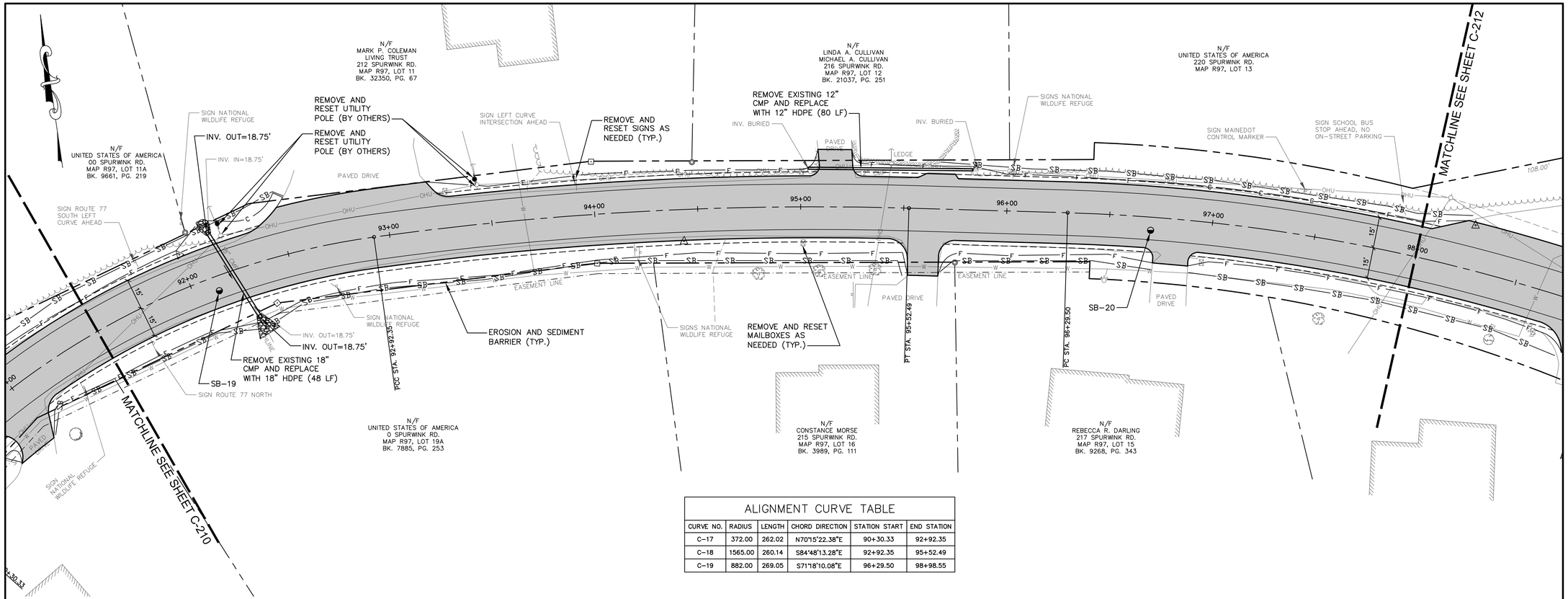
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PLAN & PROFILE STA. 85+00 TO STA. 91+50

SHEET NO:

C-210

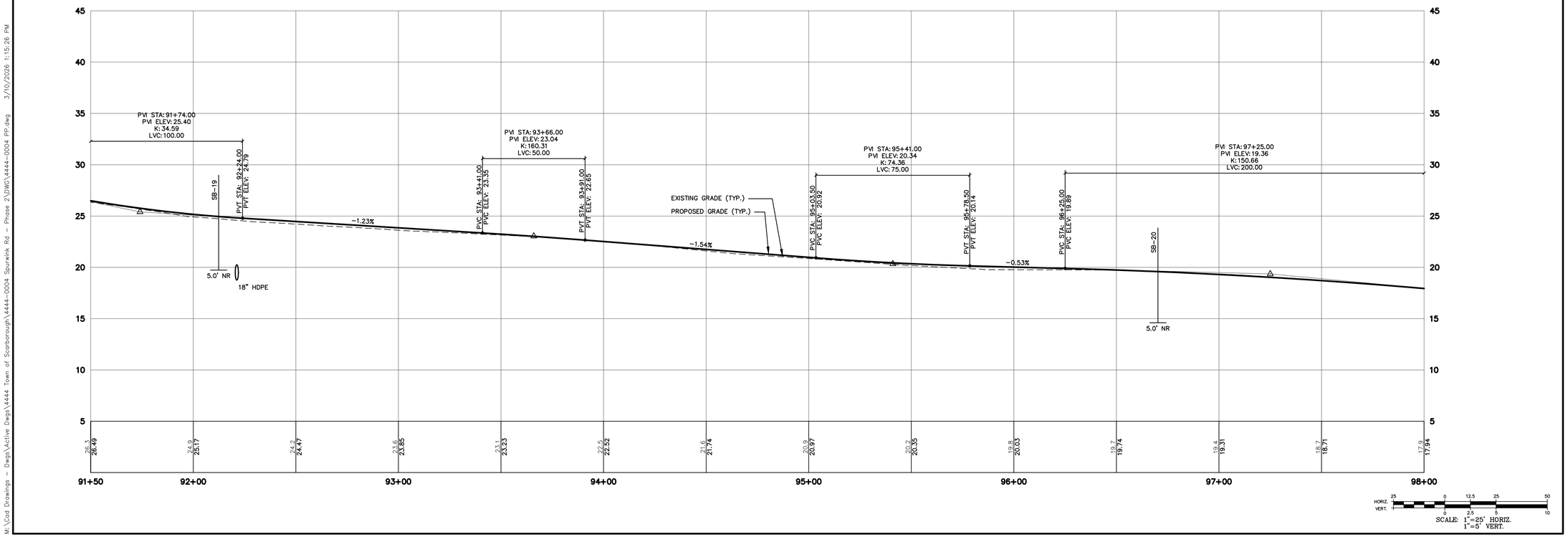
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ALIGNMENT CURVE TABLE

CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-17	372.00	262.02	N70°15'22.38"E	90+30.33	92+92.35
C-18	1565.00	260.14	S84°48'13.28"E	92+92.35	95+52.49
C-19	882.00	269.05	S71°18'10.08"E	96+29.50	98+98.55

1 inch = 25' ft.



HORIZ. 25 0 12.5 25 50
VERT. 0 2.5 5 10

SCALE: 1"=25' HORIZ.
1"=5' VERT.

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SCARBOROUGH, MAINE

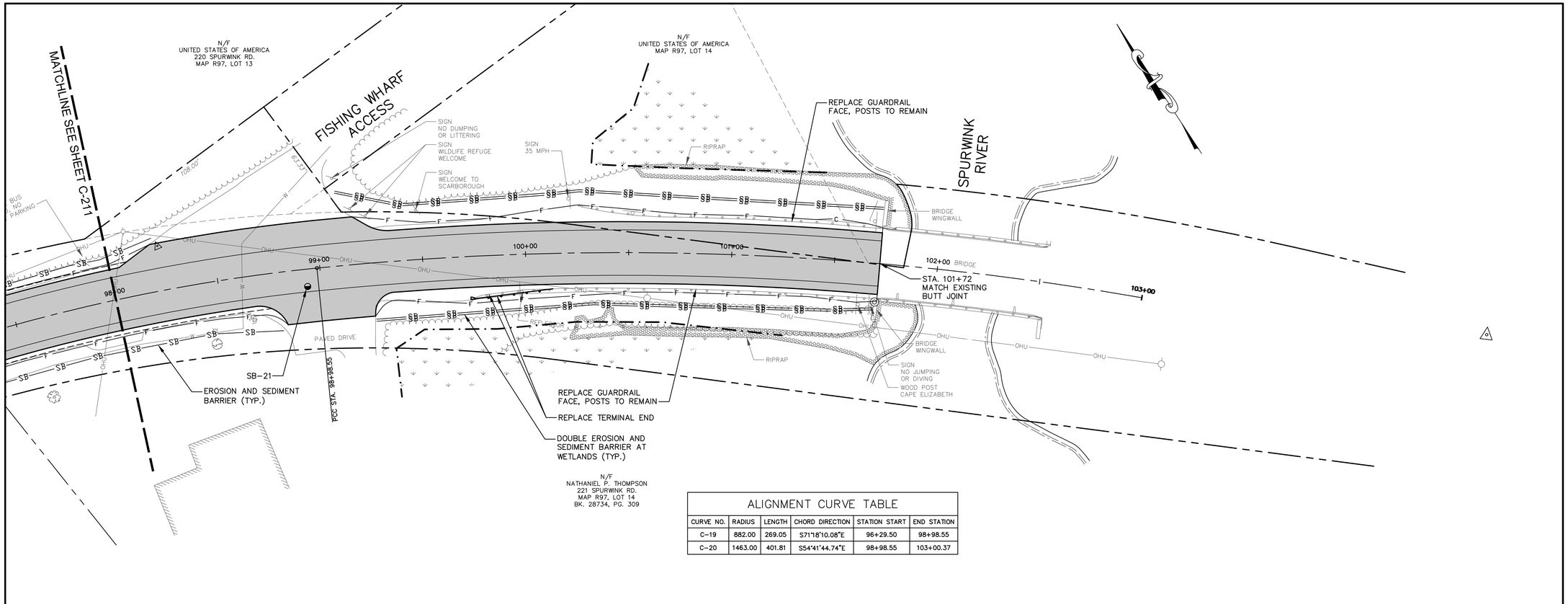
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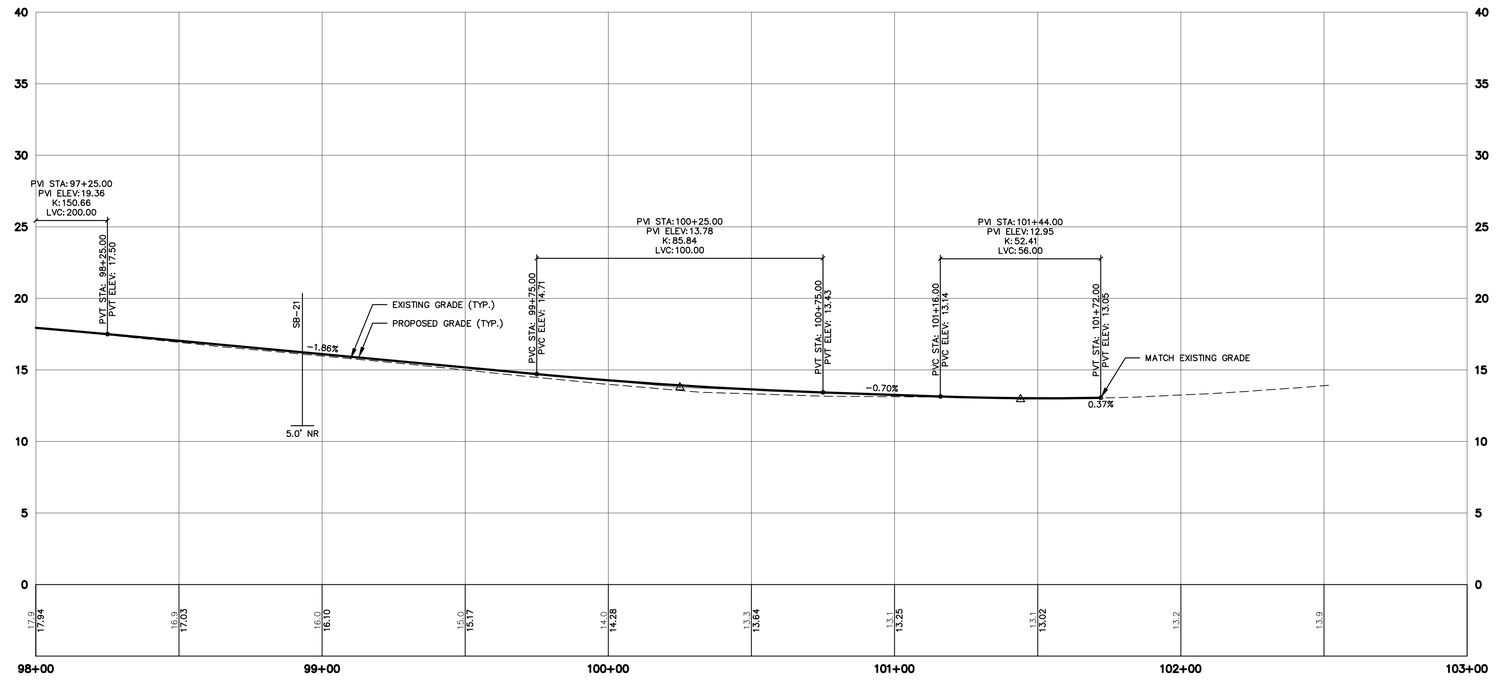
C-211

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ALIGNMENT CURVE TABLE					
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	STATION START	END STATION
C-19	882.00	269.05	S71°18'10.08"E	96+29.50	98+98.55
C-20	1463.00	401.81	S54°41'44.74"E	98+98.55	103+00.37

25 0 12.5 25 50
1 inch = 25' ft.



HORIZ. 25 0 12.5 25 50
VERT. 5 0 2.5 5 10
SCALE: 1"=25' HORIZ.
1"=5' VERT.

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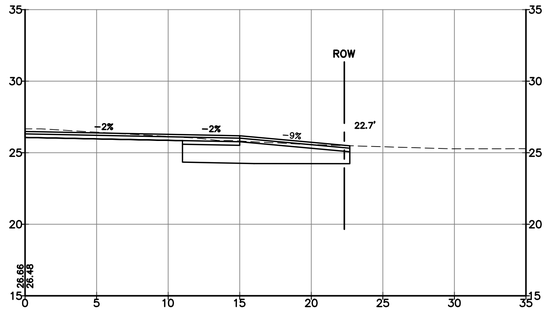
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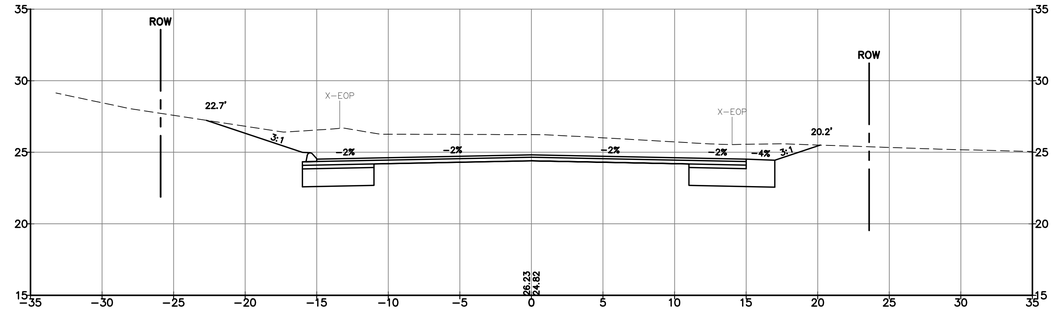
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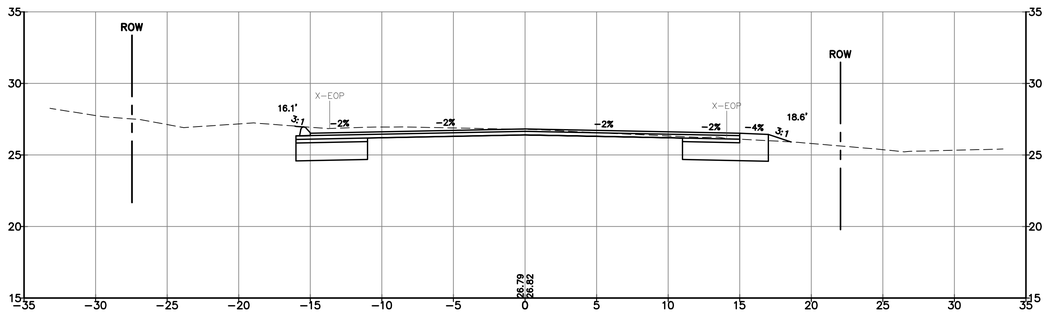
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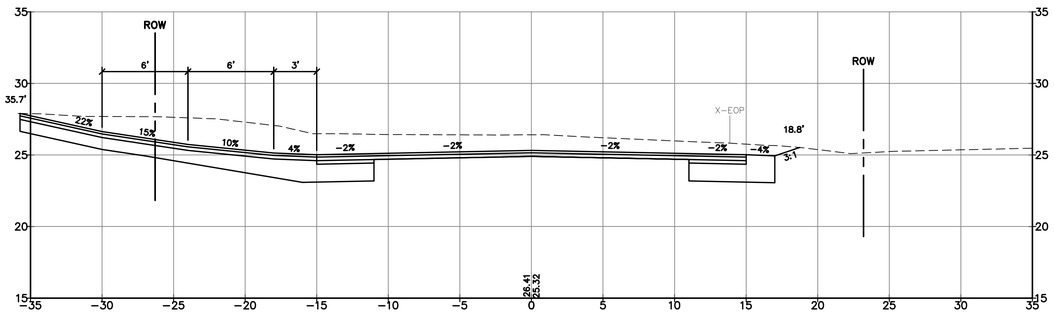
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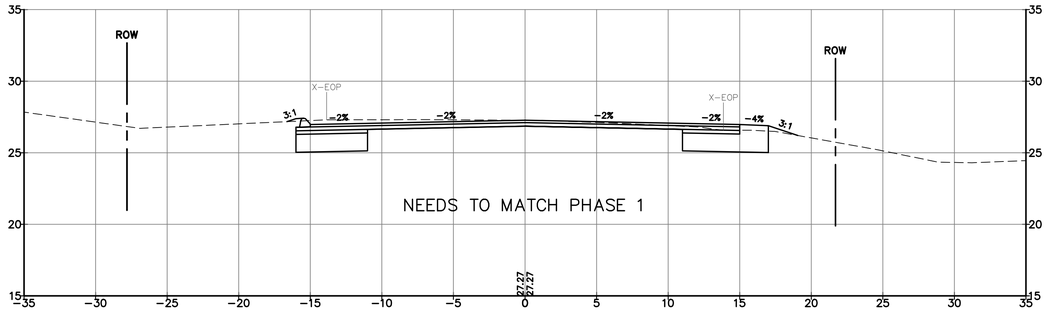
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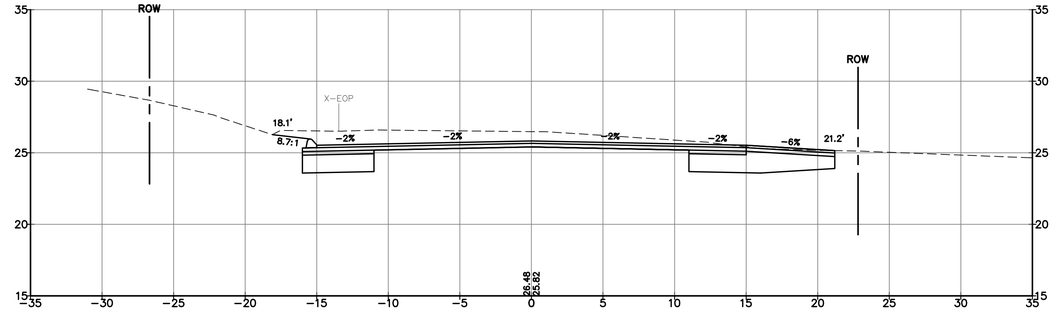
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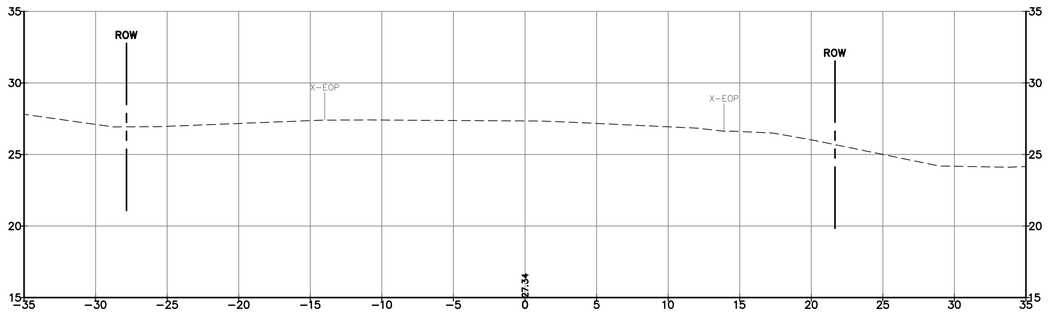
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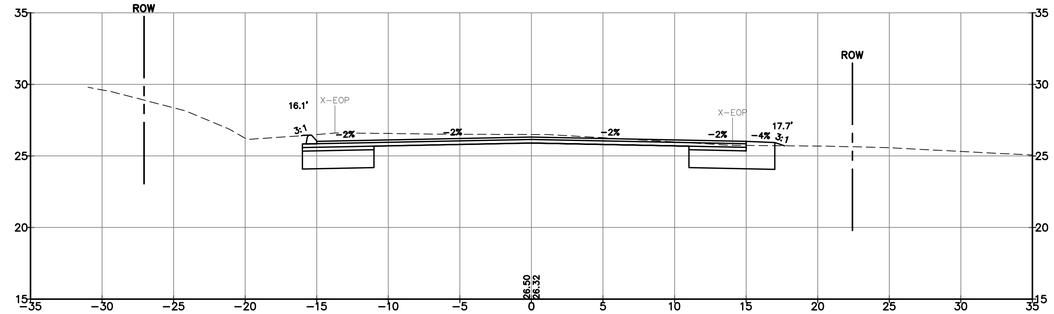
27+55



29+00



27+50



28+50

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PETER J. DALFONSO No. 4100 STATE OF MAINE LICENSED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
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DESIGNED BY: KSJ/PJD
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FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

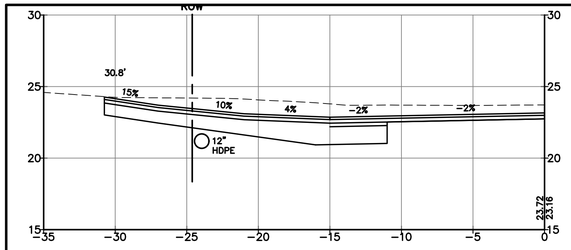
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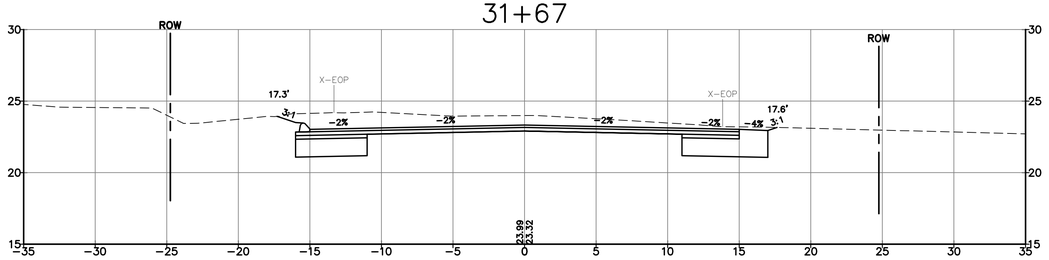
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C-401

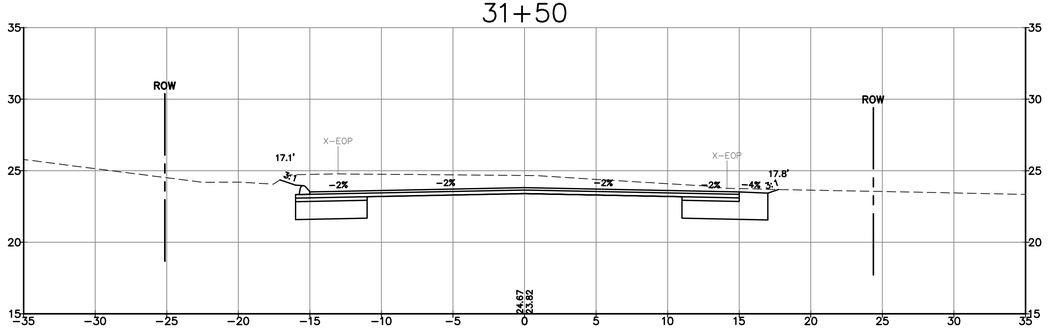
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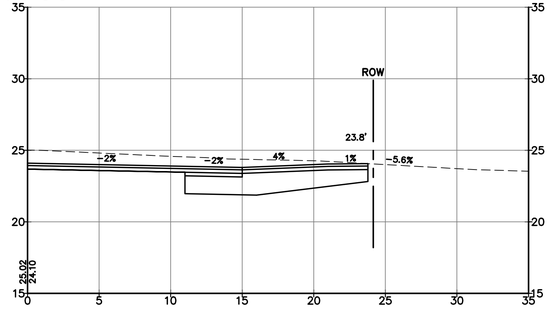
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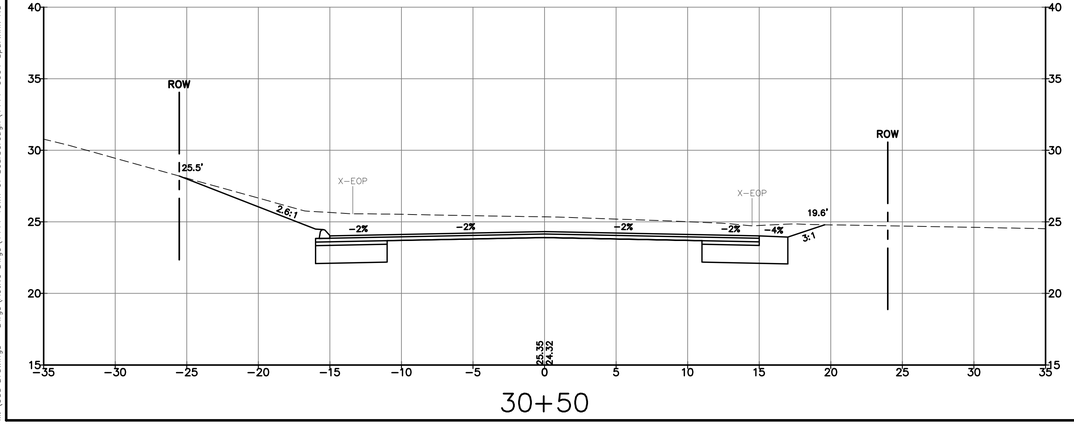
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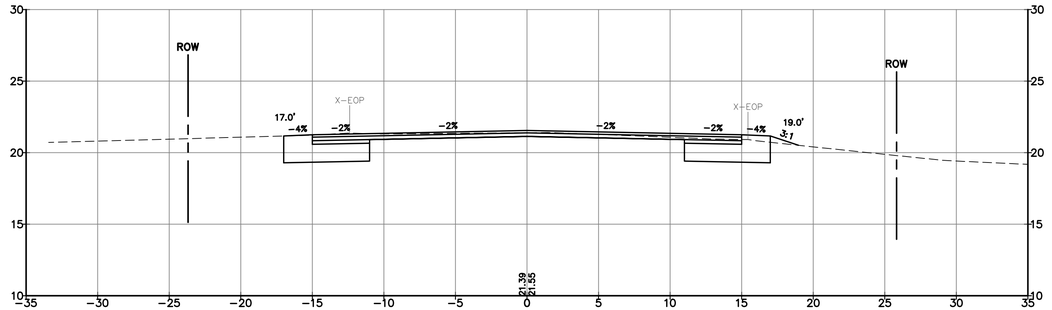
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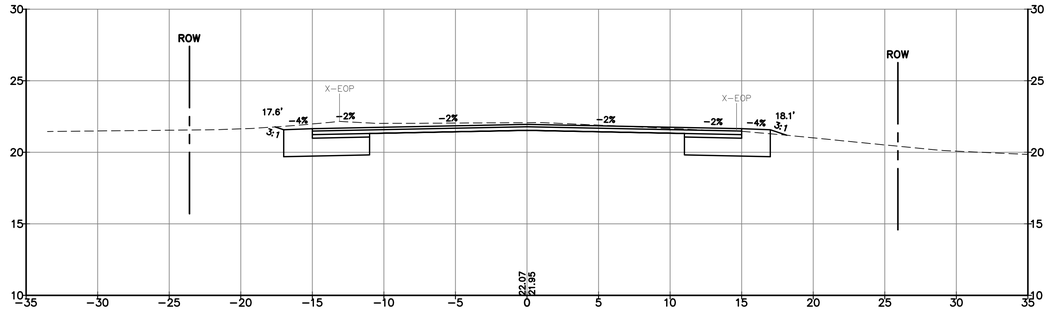
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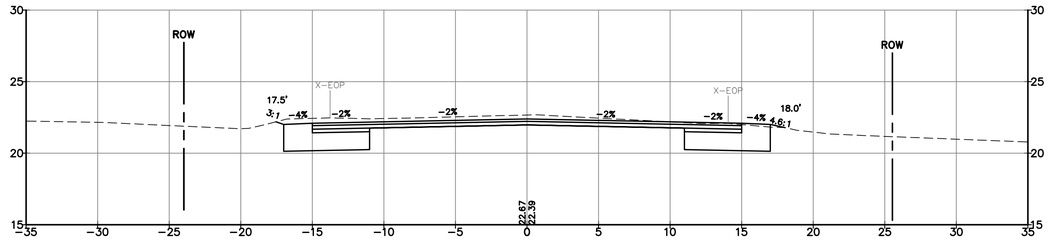
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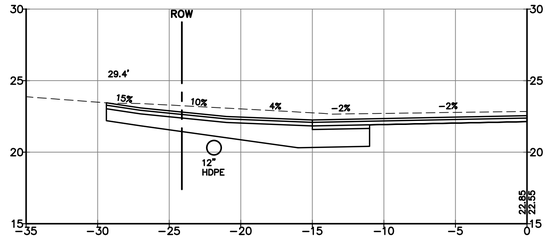
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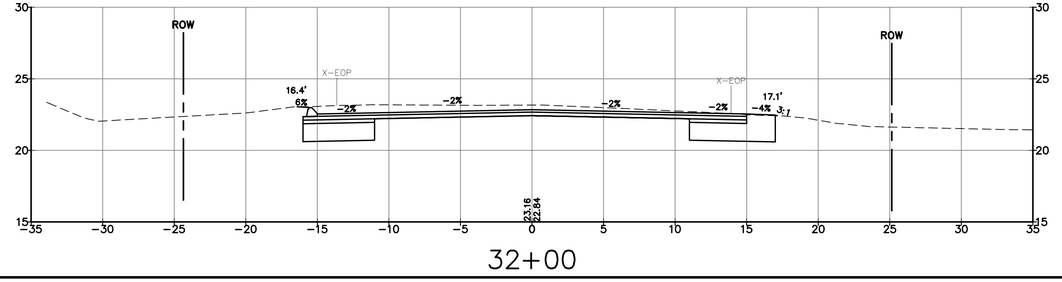
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32+50



32+32



32+00

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FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

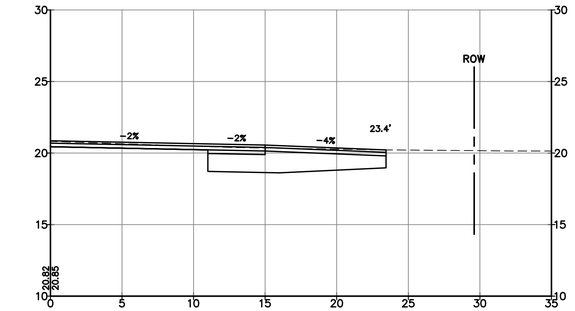
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

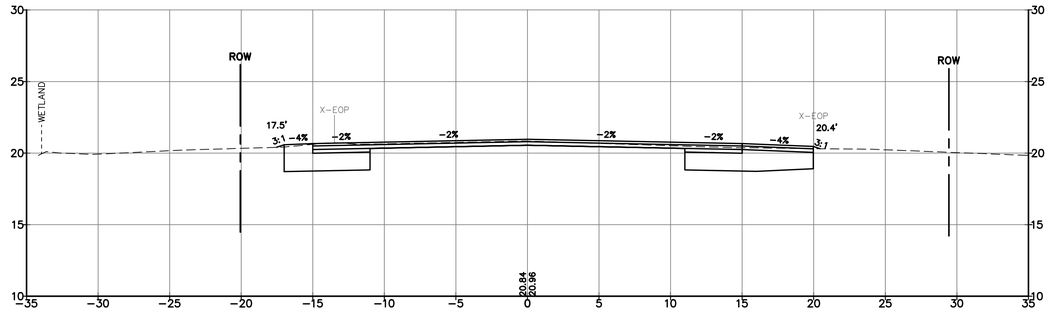
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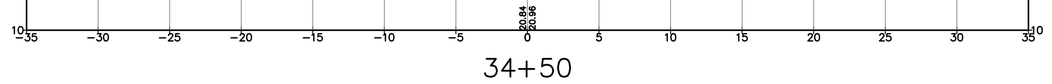
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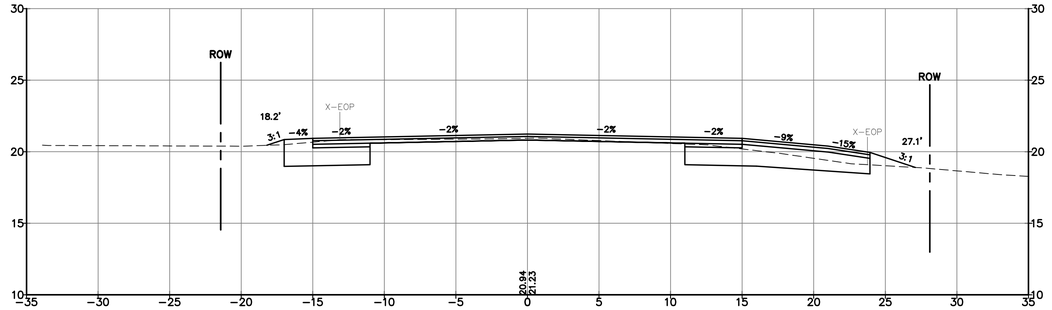
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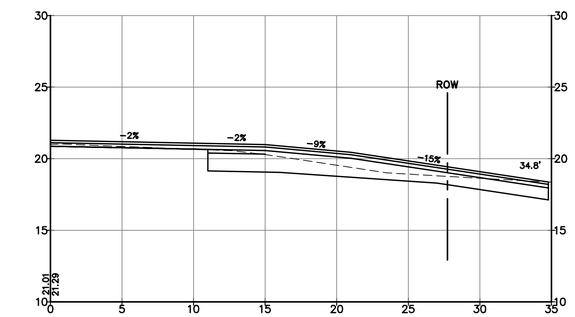
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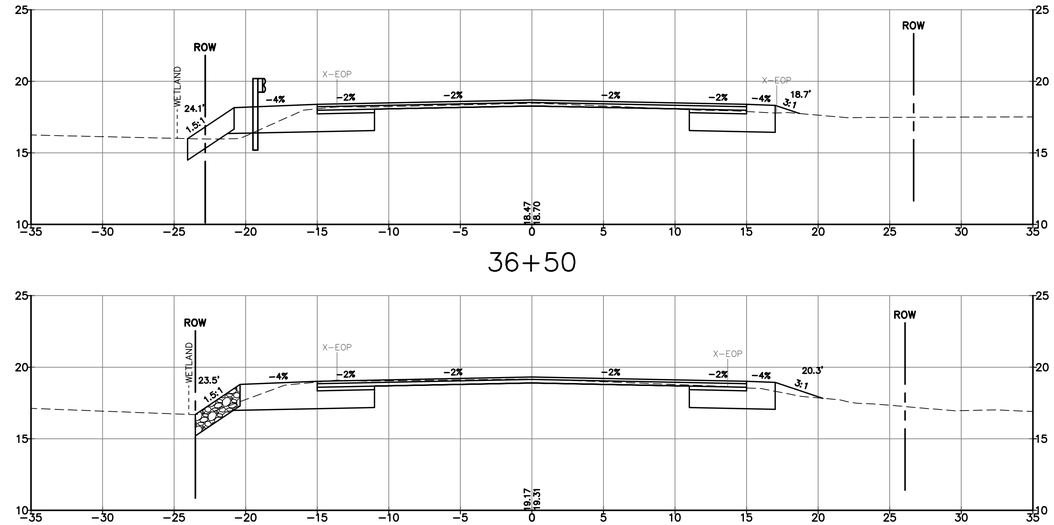
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34+00

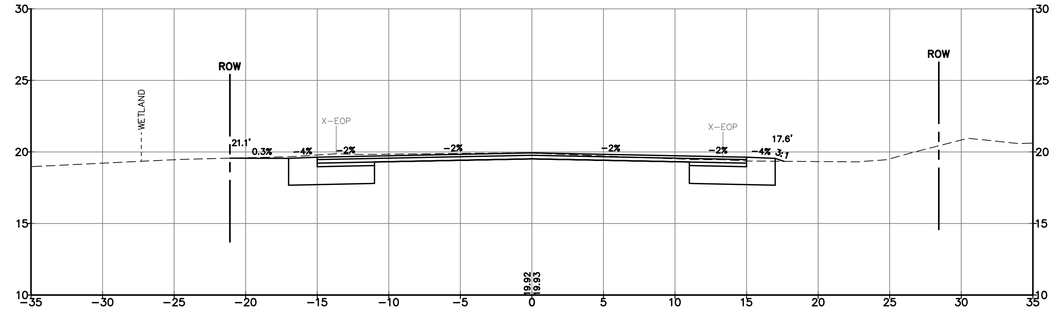


33+91

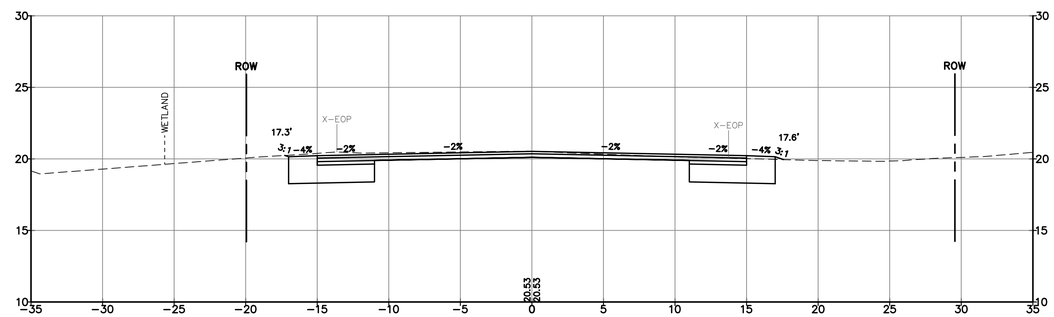


36+50

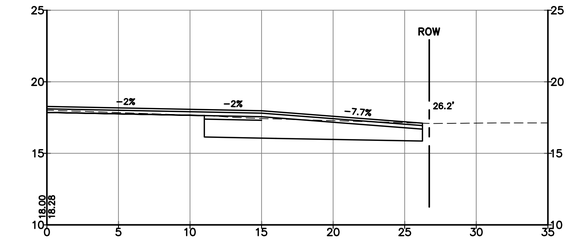
36+00



35+50



35+00



36+84

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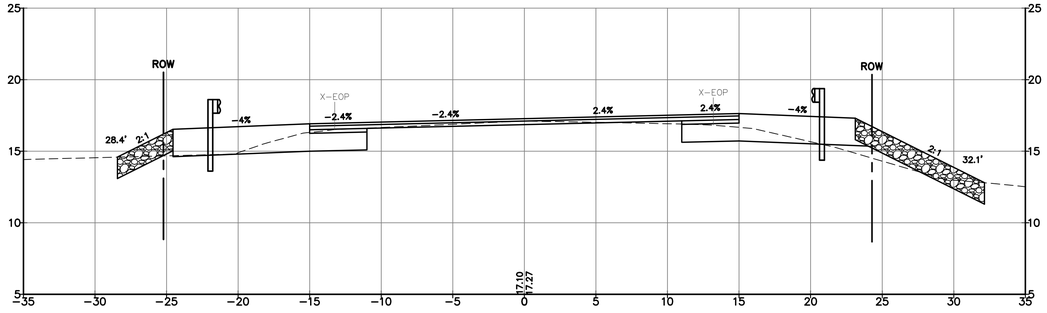
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CROSS SECTIONS STA. 33+91 TO STA. 36+84

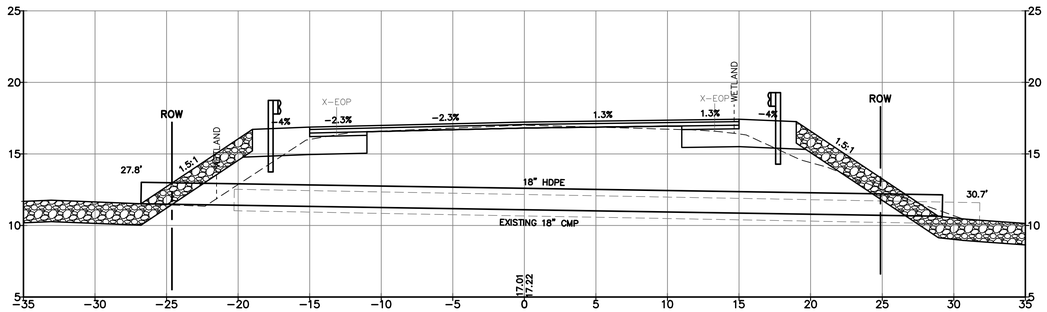
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C-403

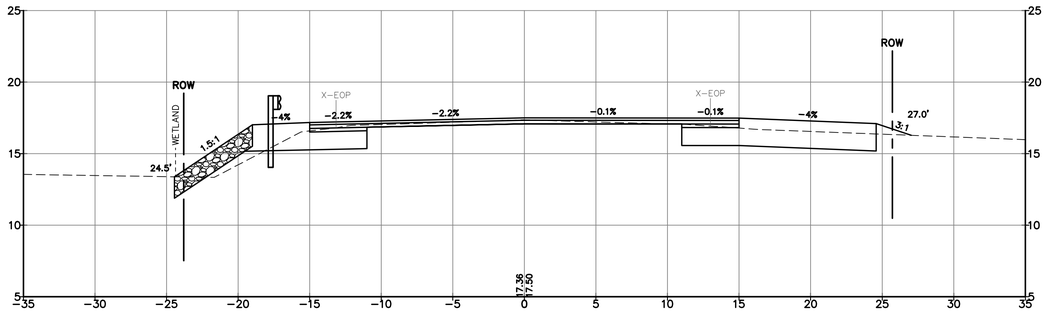
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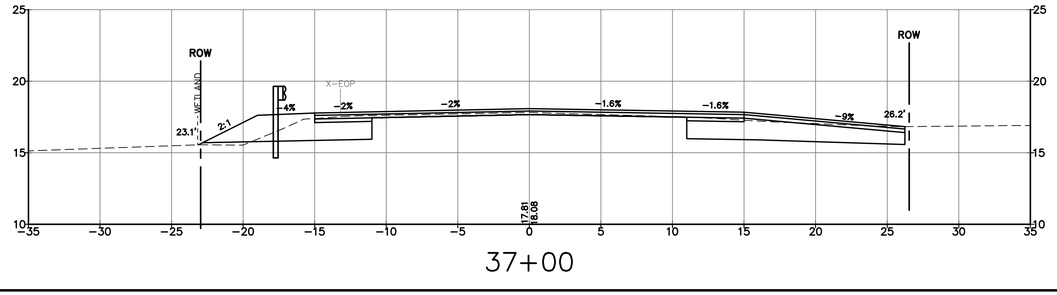
38+50



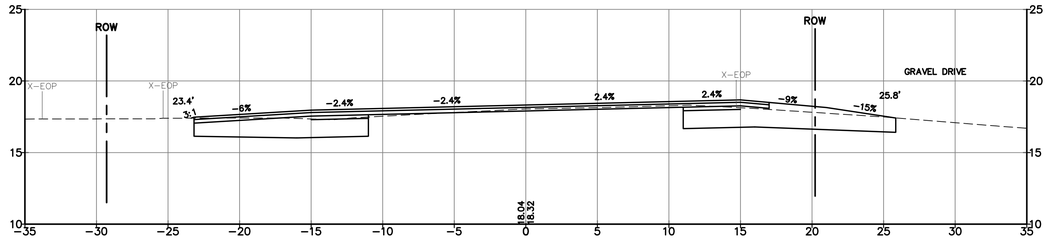
38+00
(SKEWED ALONG PIPE)



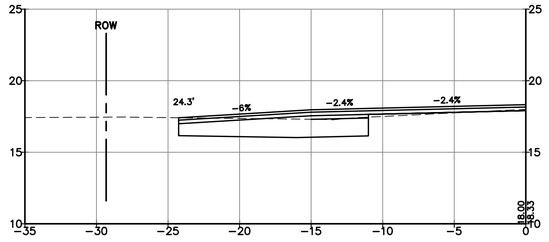
37+50



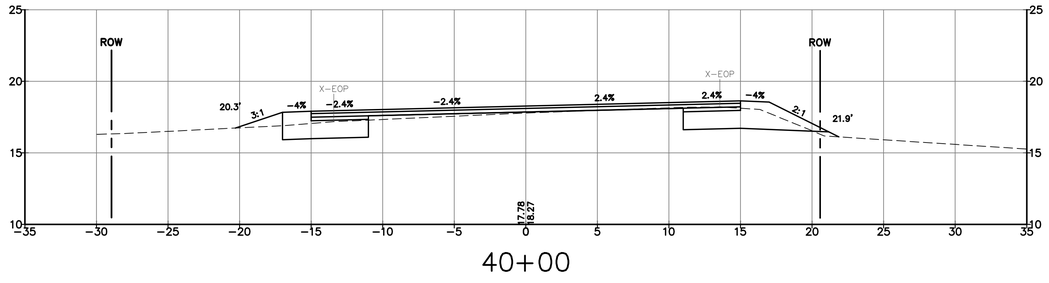
37+00



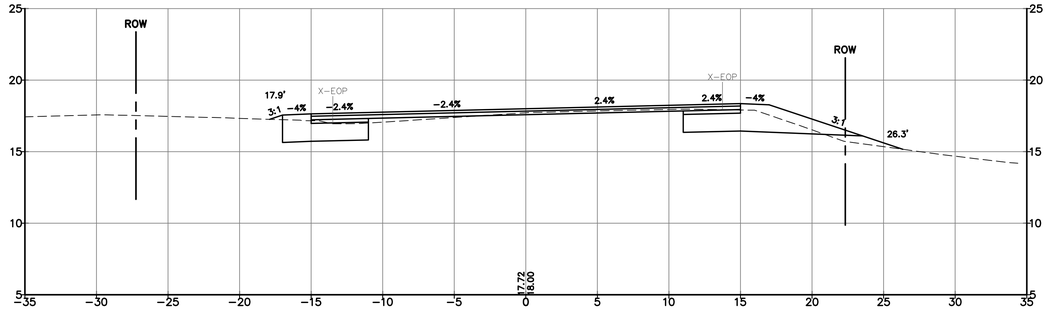
40+50



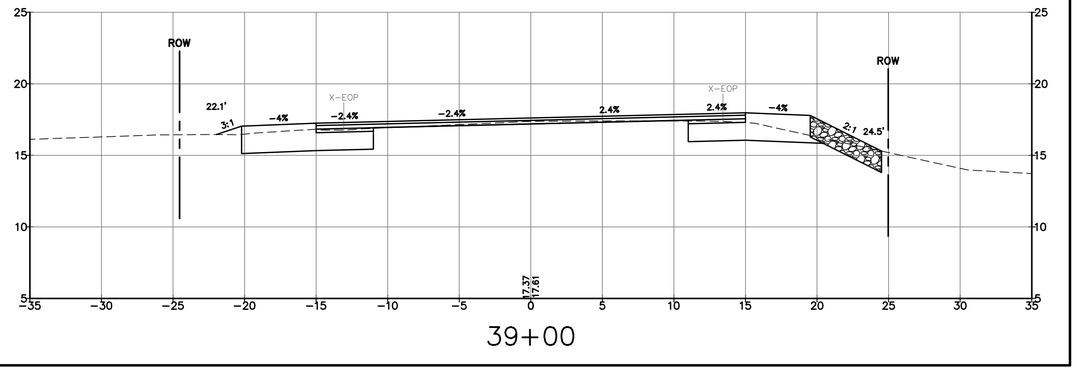
40+43



40+00



39+50



39+00

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PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY:	KSJ/PJD
DRAWN BY:	DB/JWG
CHECKED BY:	PJC
DATE:	3/10/2026
FILE NAME:	4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

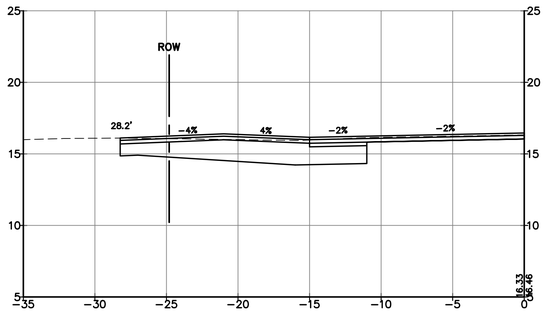
SHEET TITLE:

CROSS SECTIONS STA. 37+00 TO STA. 40.50

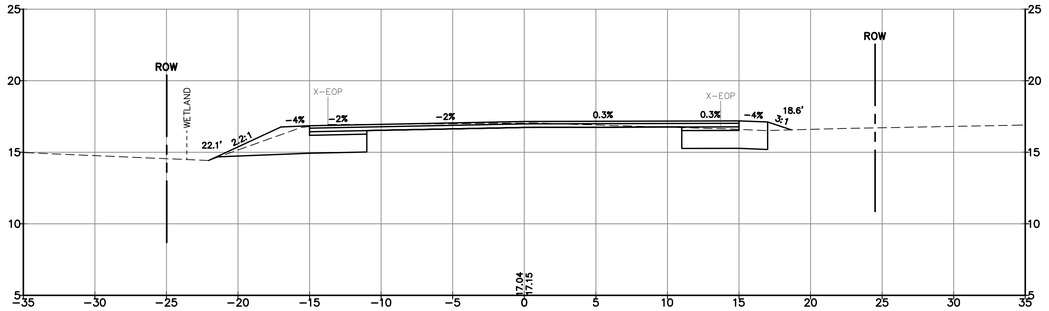
SHEET NO:

C-404

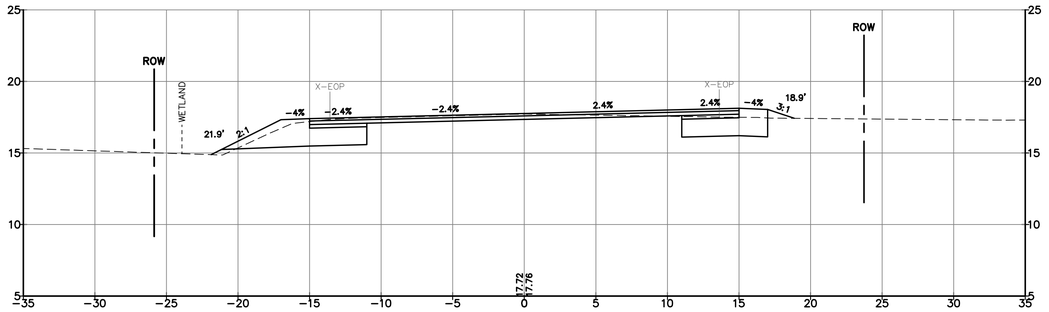
M:\Cad Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 XSEC.dwg 3/10/2026 1:15:49 PM



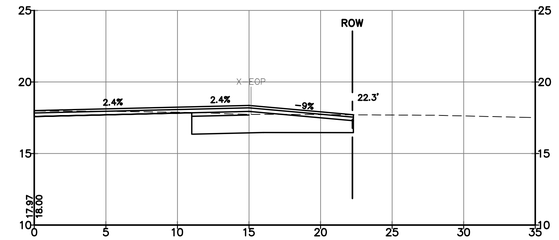
42+42



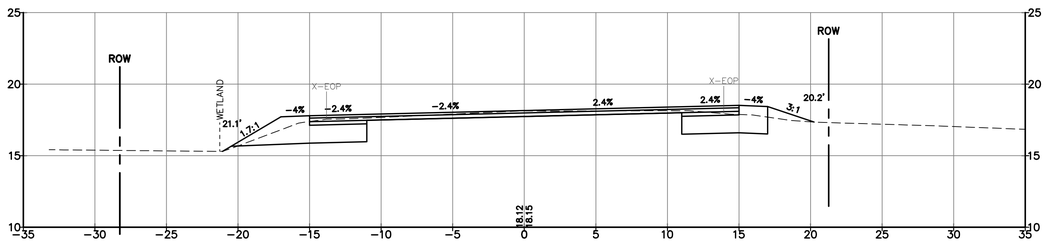
42+00



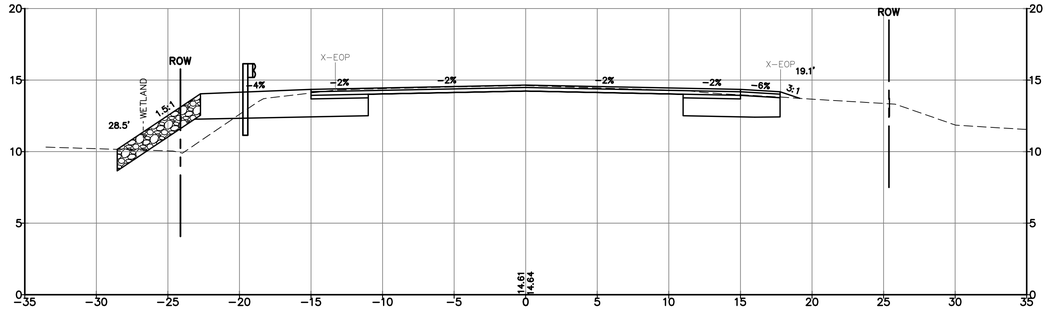
41+50



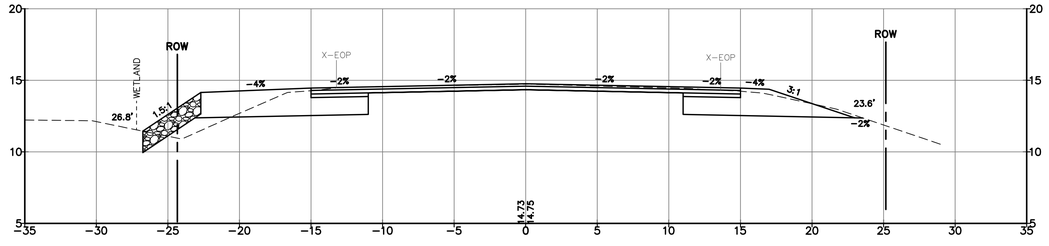
41+23



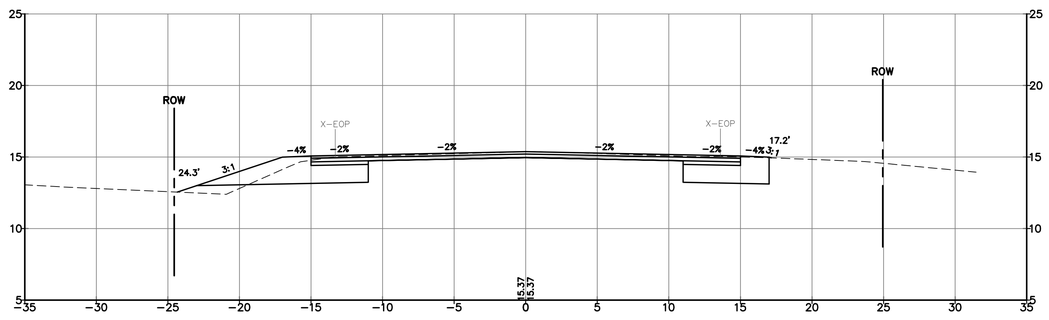
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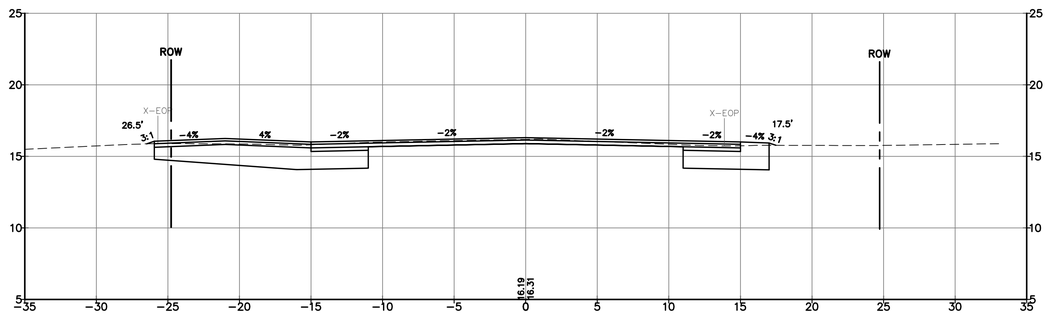
44+00



43+50



43+00



42+50

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

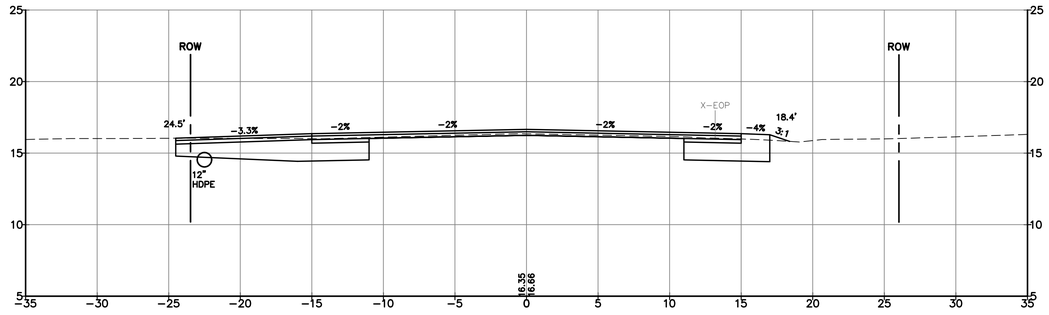
SHEET TITLE:

CROSS SECTIONS STA. 41+00 TO STA. 44+00

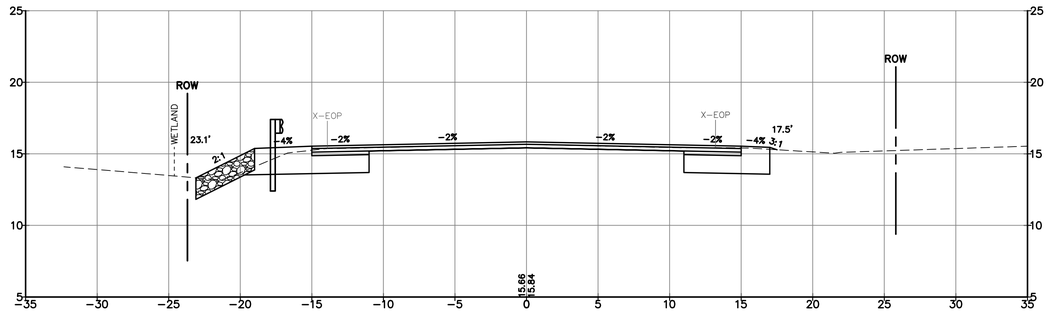
SHEET NO:

C-405

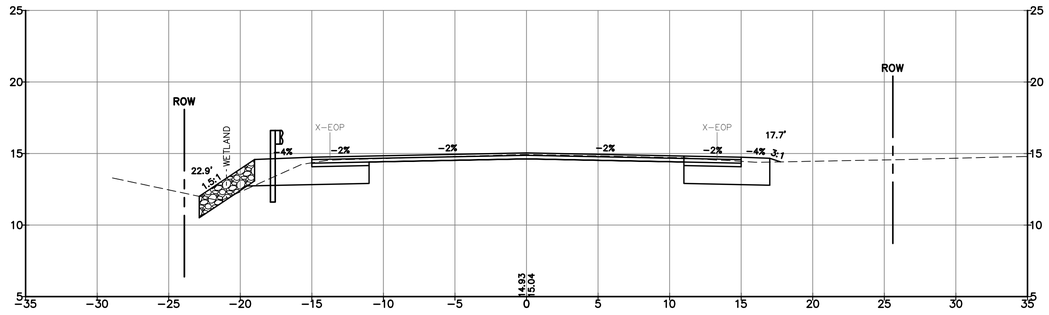
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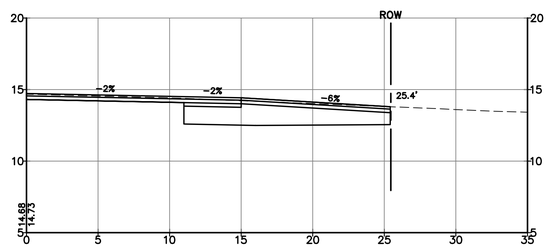
45+50



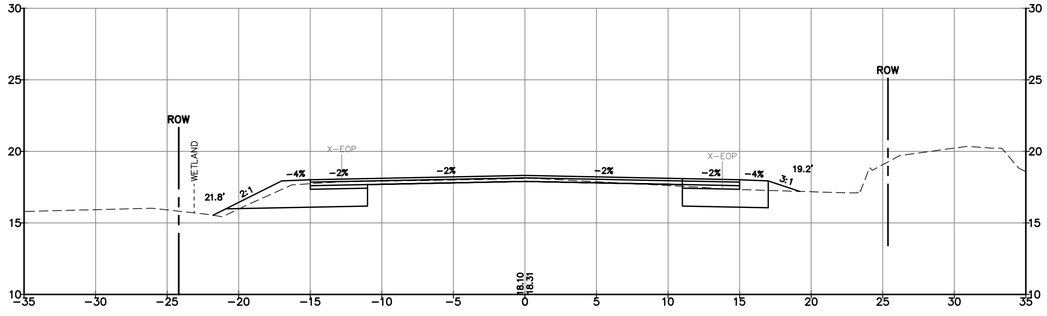
45+00



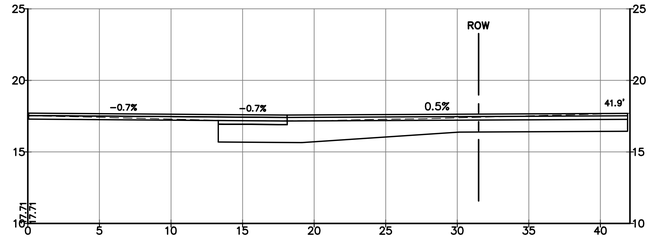
44+50



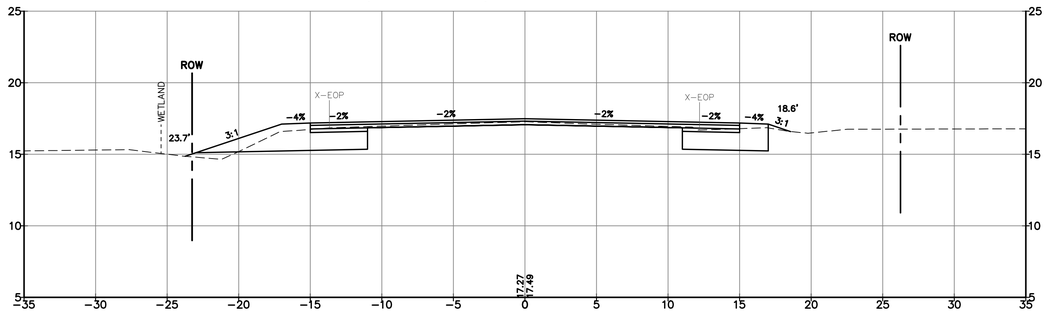
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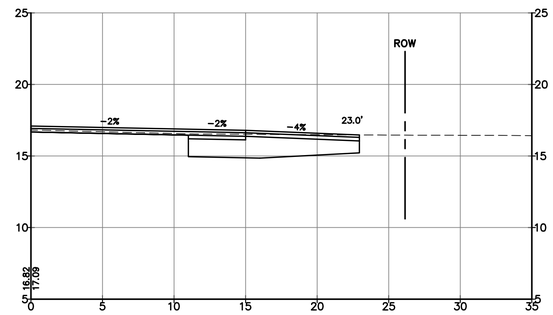
46+50



46+13
(SKEWED ALONG DRIVEWAY)



46+00



45+76

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

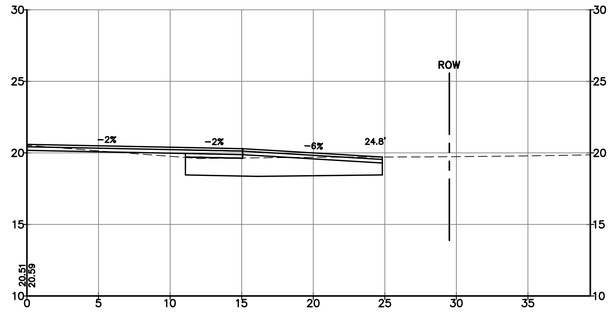
SHEET TITLE:

CROSS SECTIONS STA. 44+18 TO STA. 46+50

SHEET NO:

C-406

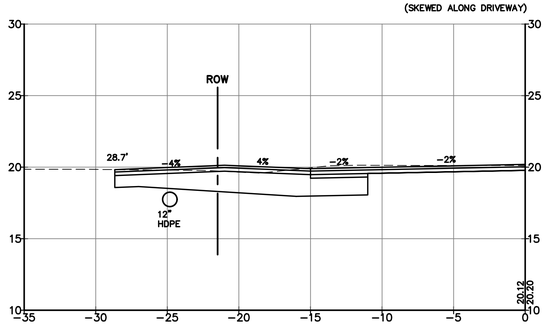
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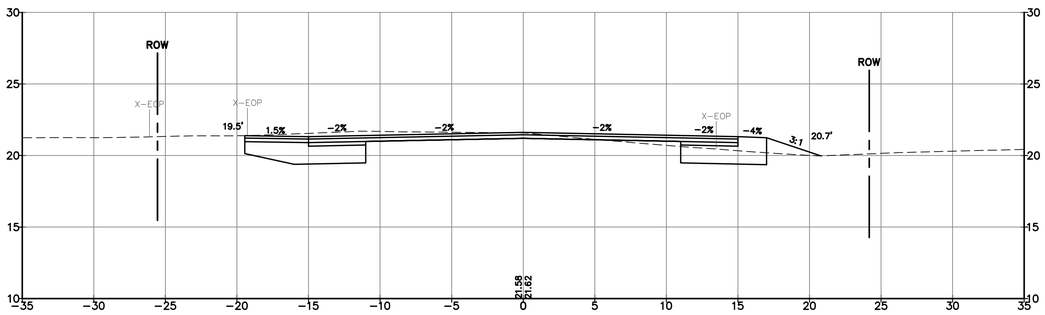
47+88
(SKEWED ALONG DRIVEWAY)



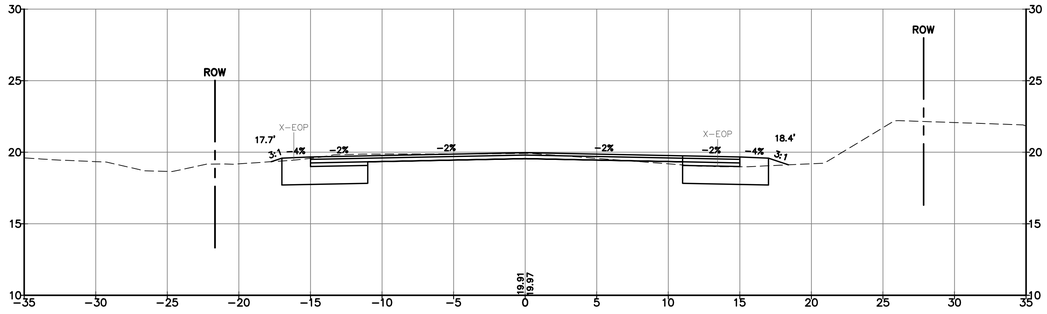
49+00



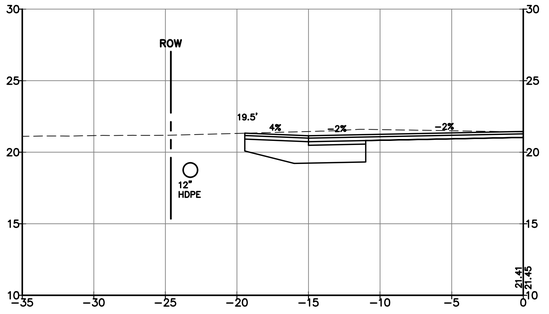
47+64



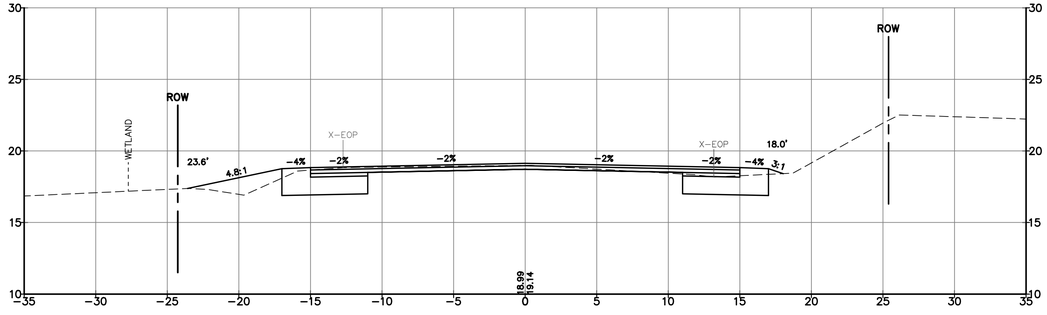
48+50



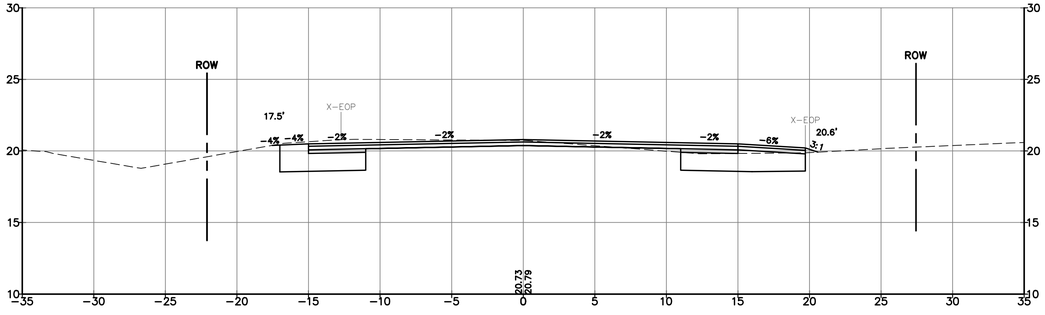
47+50



48+40



47+00



48+00

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

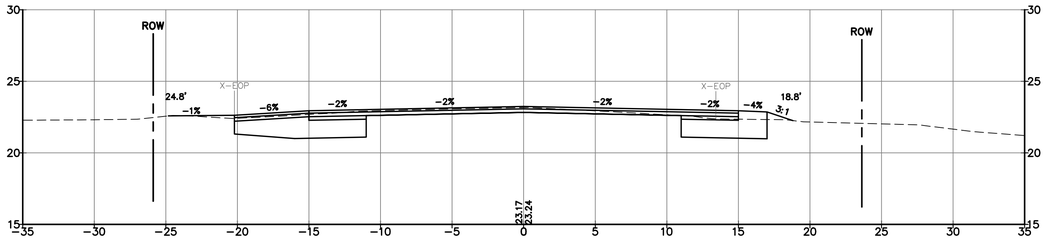
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CROSS SECTIONS STA. 47+00 TO STA. 49+00

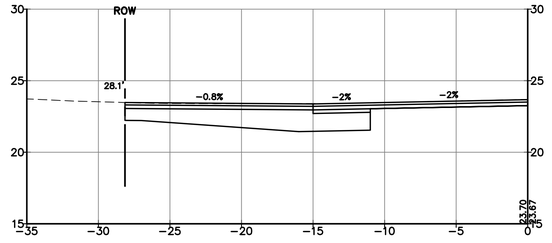
SHEET NO:

C-407

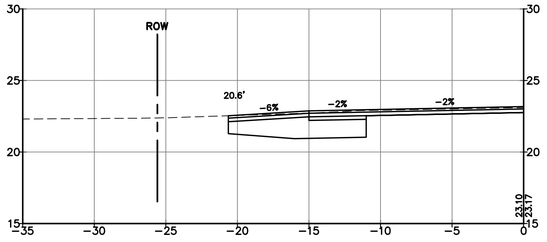
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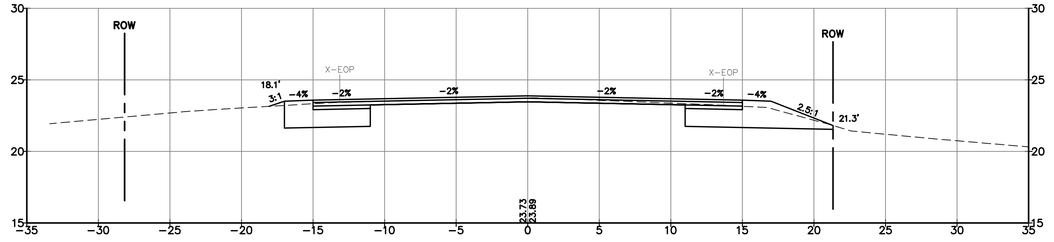
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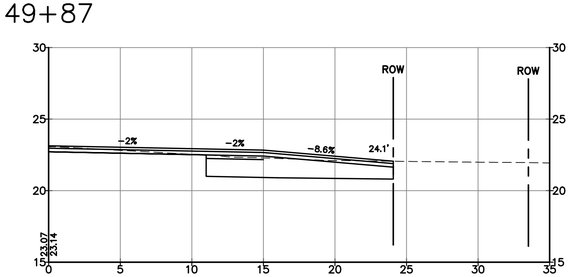
52+41



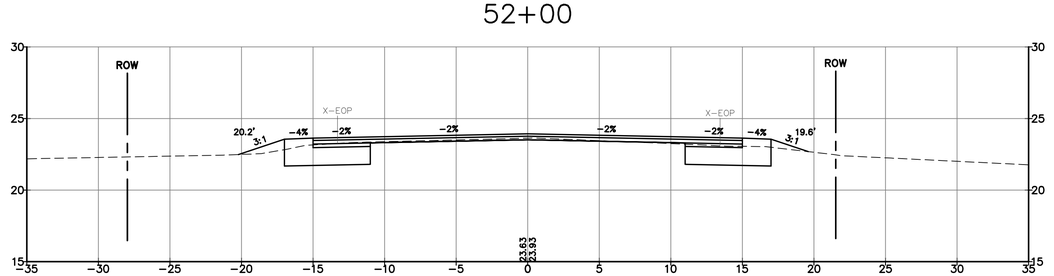
49+87



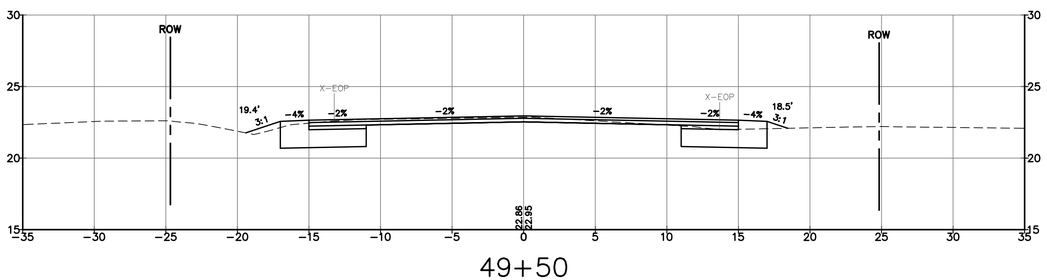
52+00



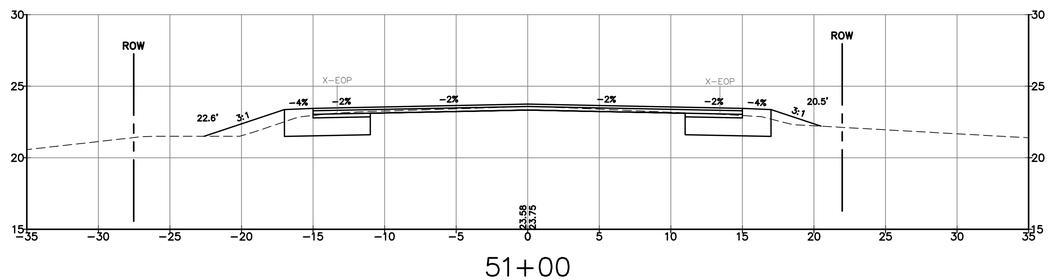
49+80



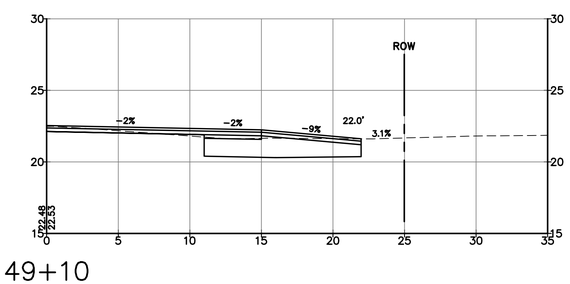
51+50



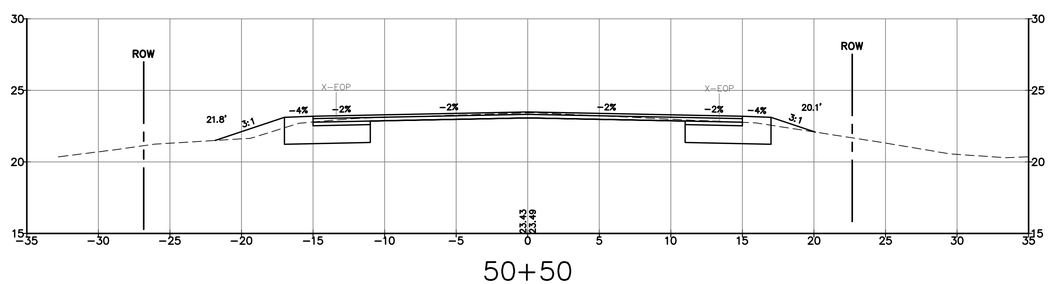
49+50



51+00



49+10



50+50

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
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DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

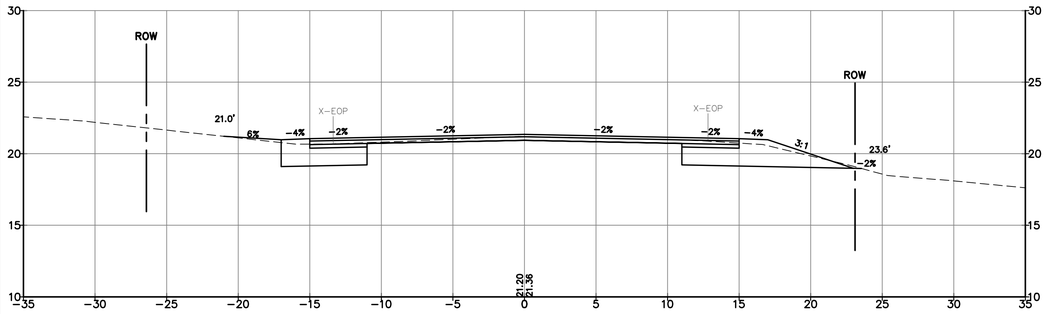
SHEET TITLE:

CROSS SECTIONS STA. 49+10 TO STA. 52+41

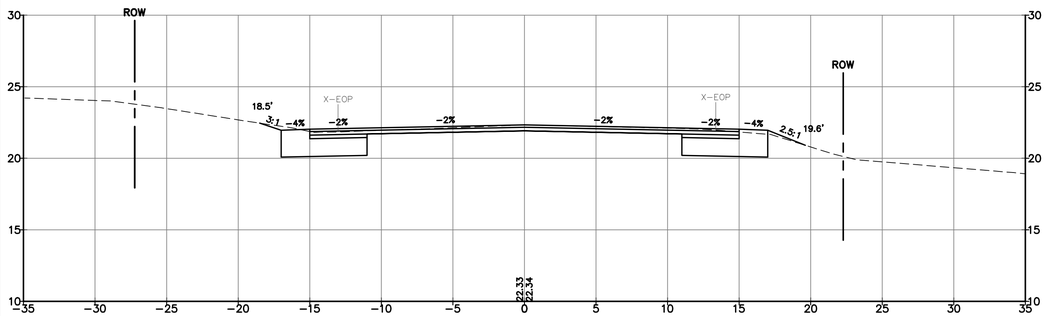
SHEET NO:

C-408

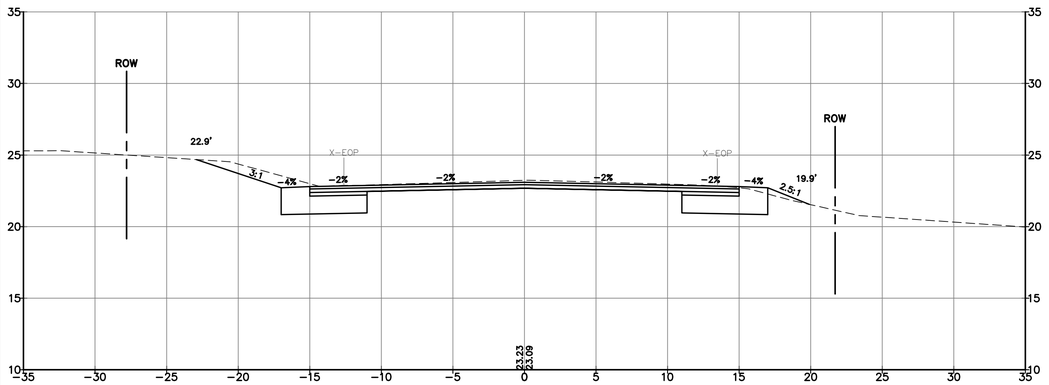
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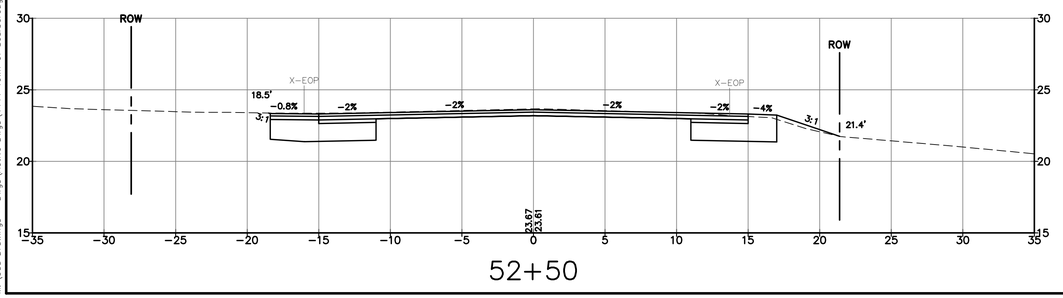
54+00



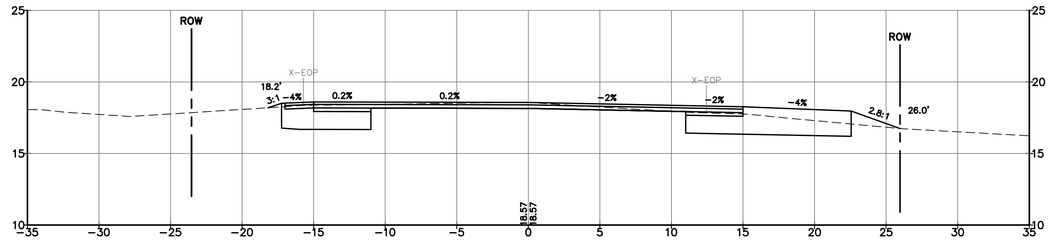
53+50



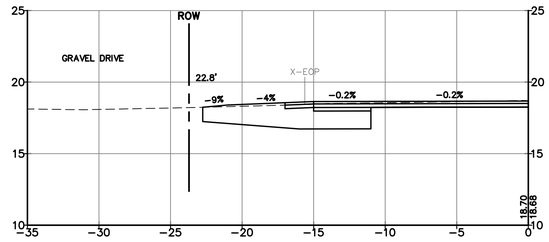
53+00



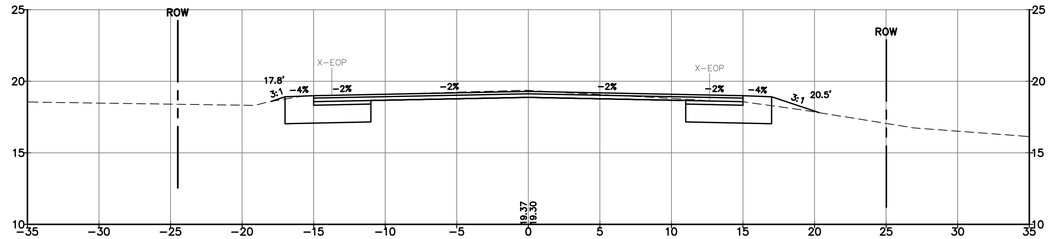
52+50



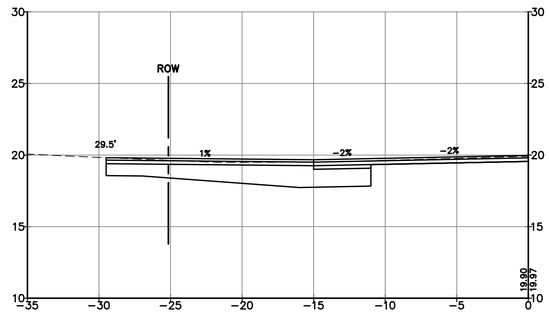
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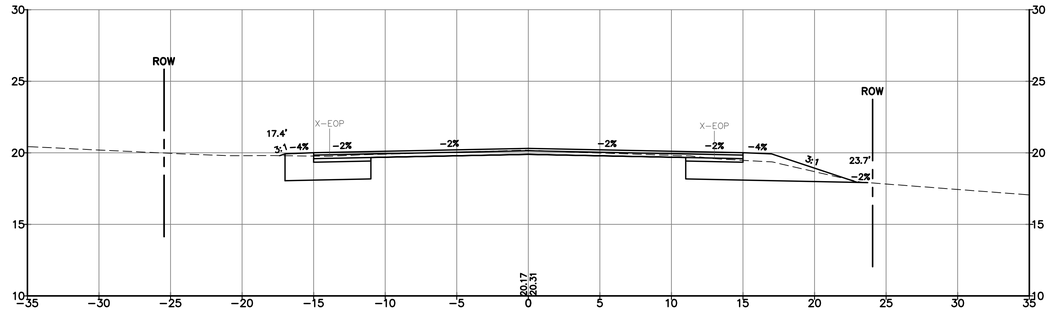
55+41



55+00



54+66



54+50

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

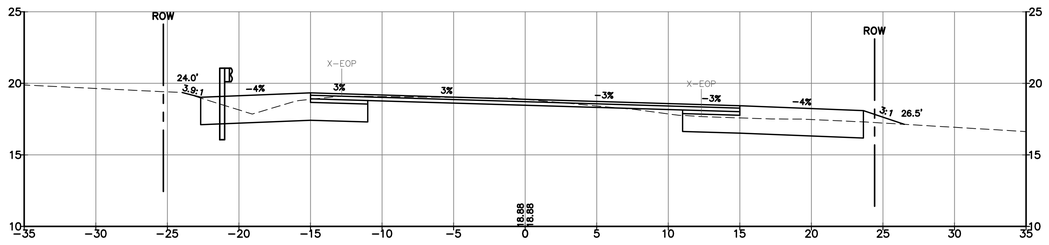
SHEET TITLE:

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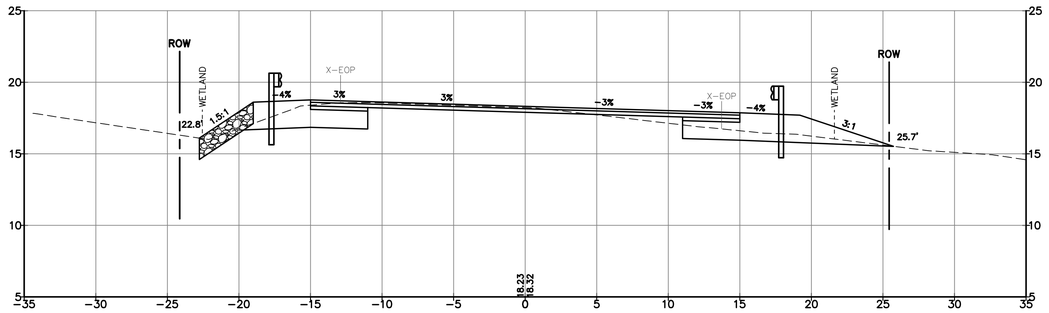
SHEET NO:

C-409

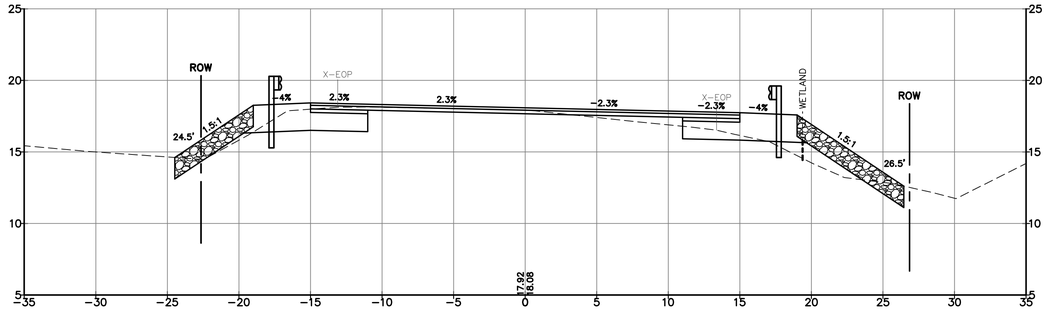
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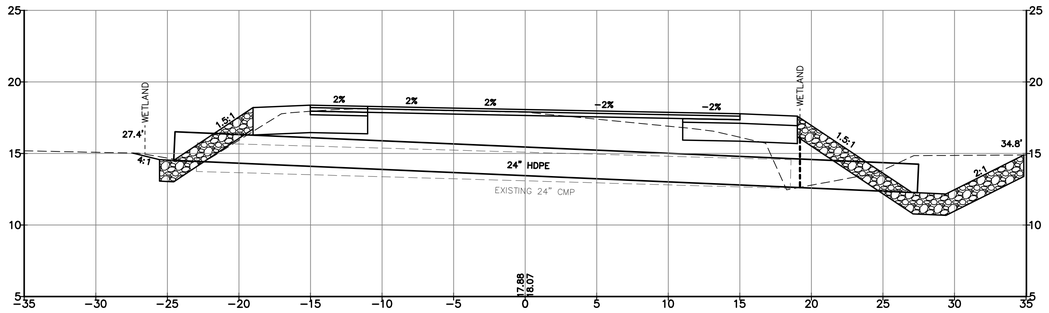
57+50



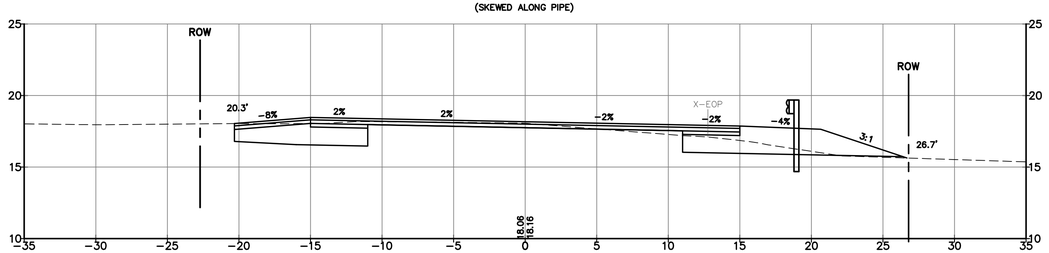
57+00



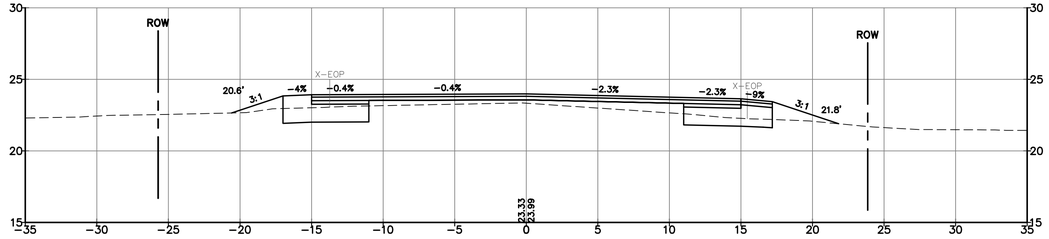
56+50



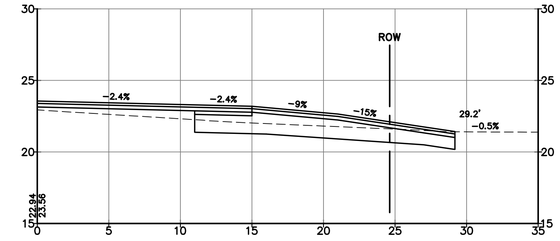
56+38
(SKEWED ALONG PIPE)



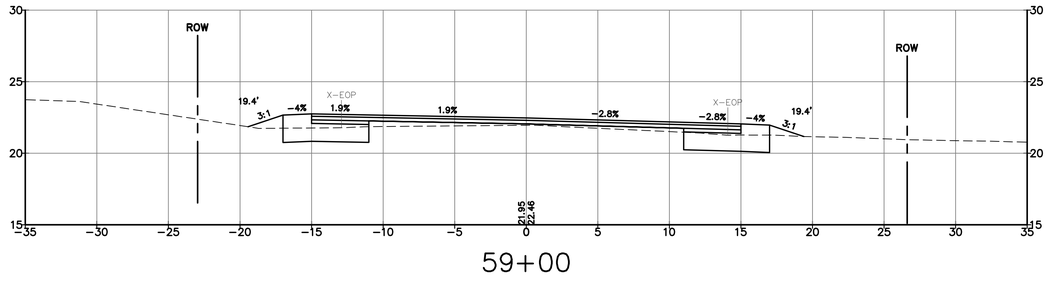
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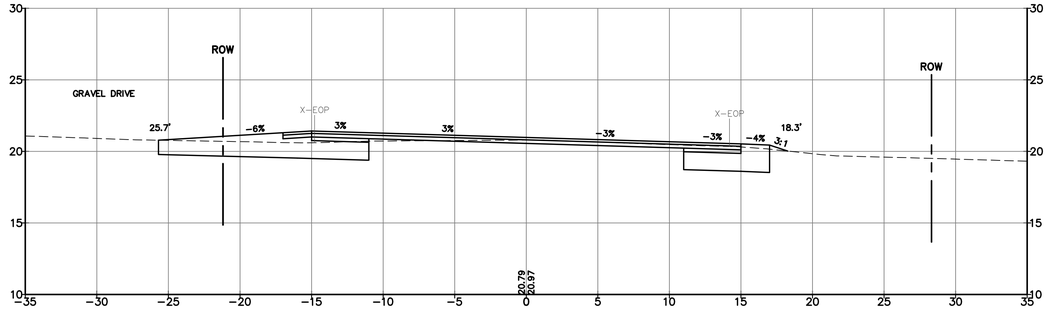
59+50



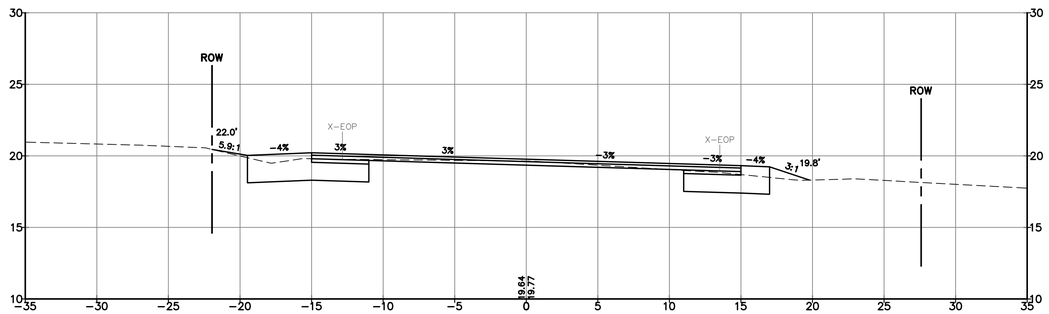
59+36



59+00



58+50



58+00

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STATE OF MAINE
PETER J. DALFONSO
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3/10/2026

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FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

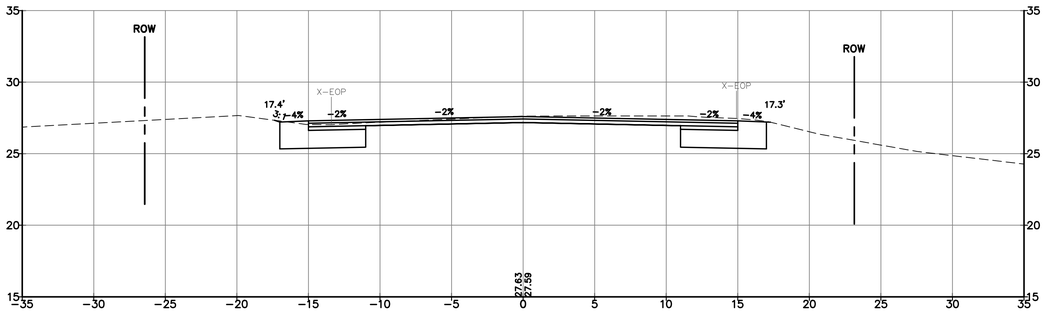
SHEET TITLE:

CROSS SECTIONS STA. 56+00 TO STA. 59+50

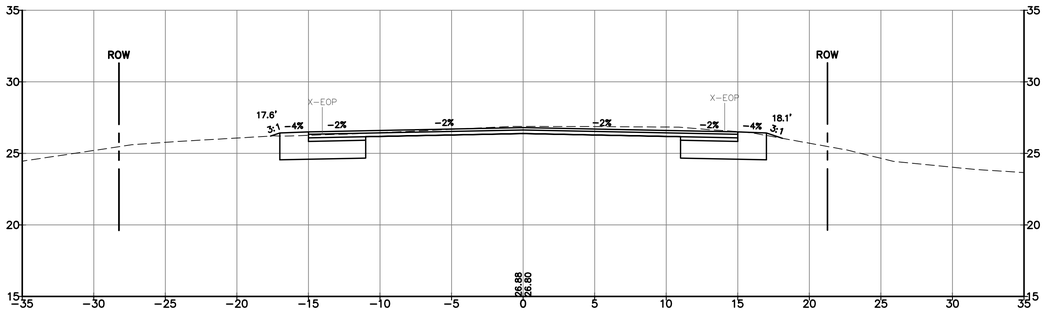
SHEET NO:

C-410

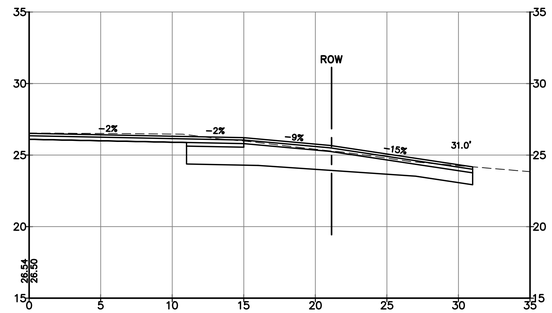
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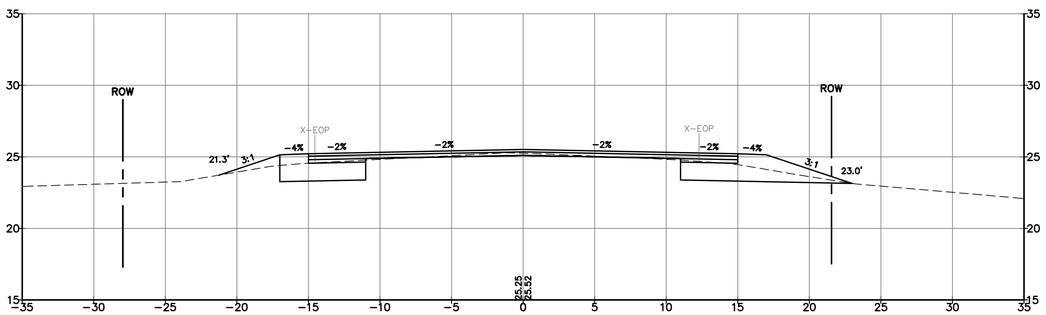
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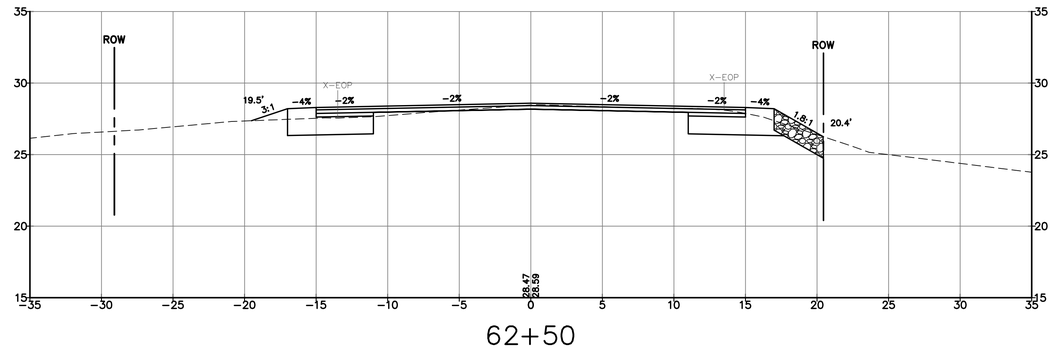
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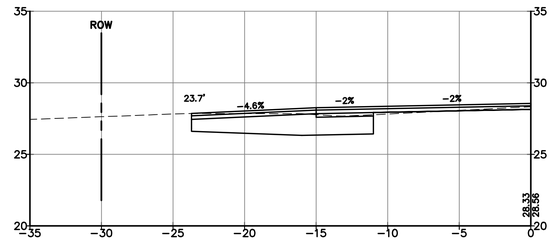
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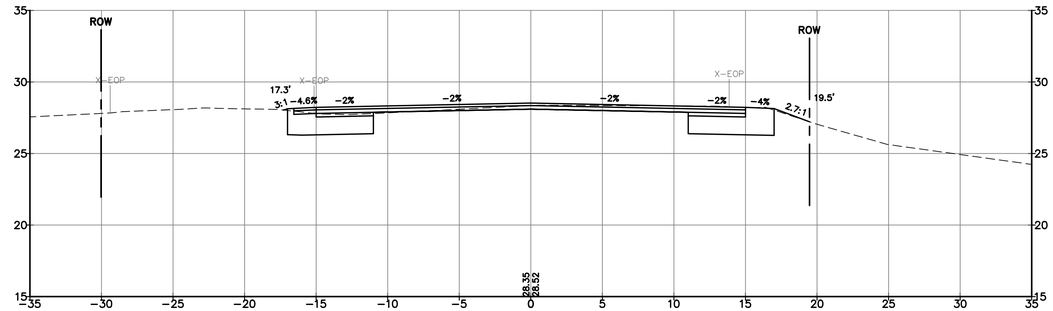
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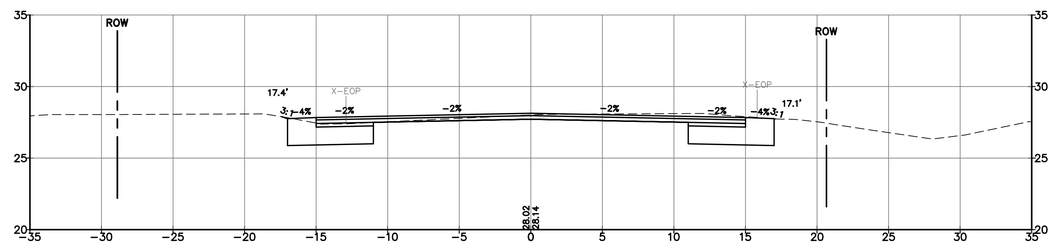
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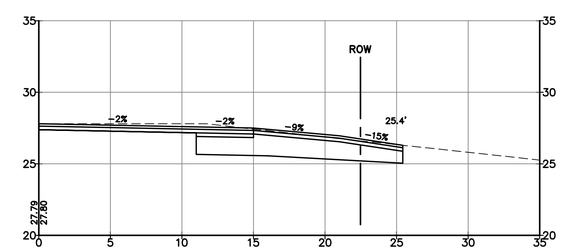
62+10



62+00



61+50



61+19

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
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3/10/2026

REV.	DATE	REVISION DESCRIPTION
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DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

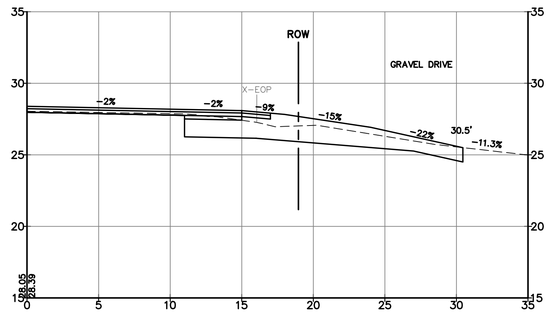
SHEET TITLE:

CROSS SECTIONS STA. 60+00 TO STA. 62+50

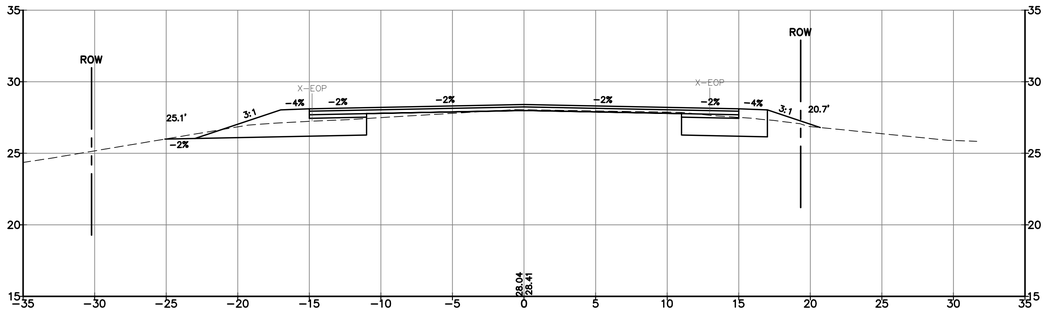
SHEET NO:

C-411

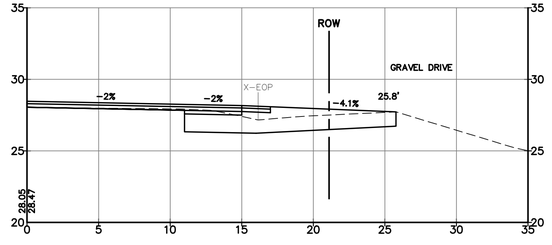
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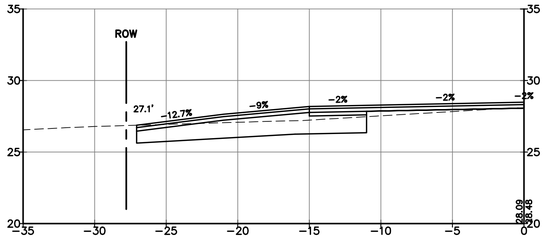
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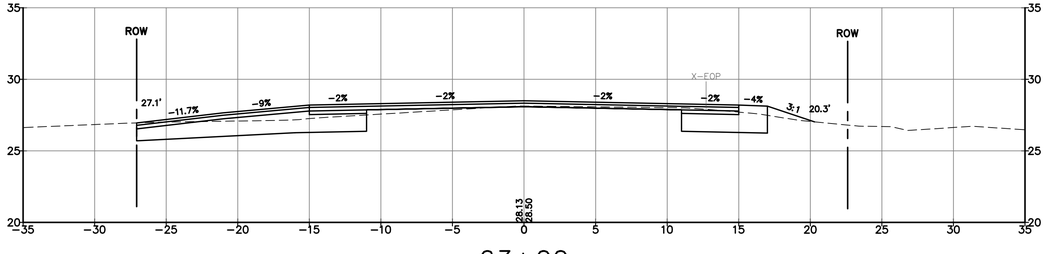
63+50



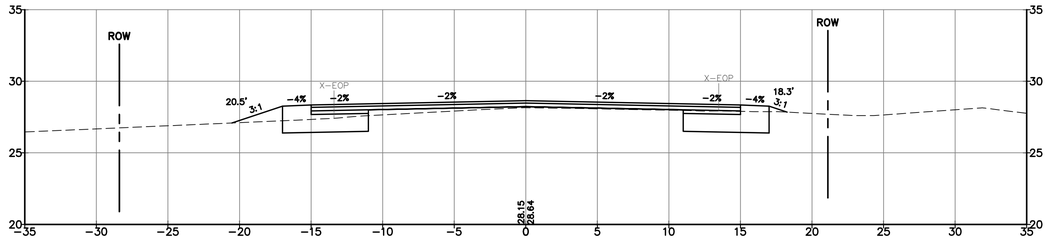
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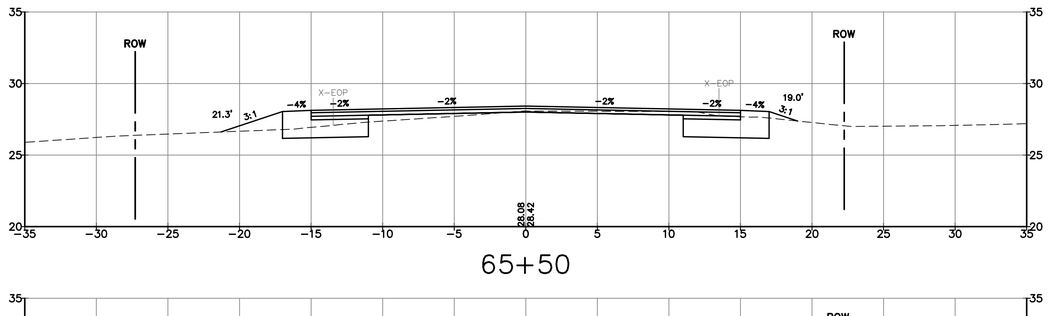
63+09



63+00



66+00



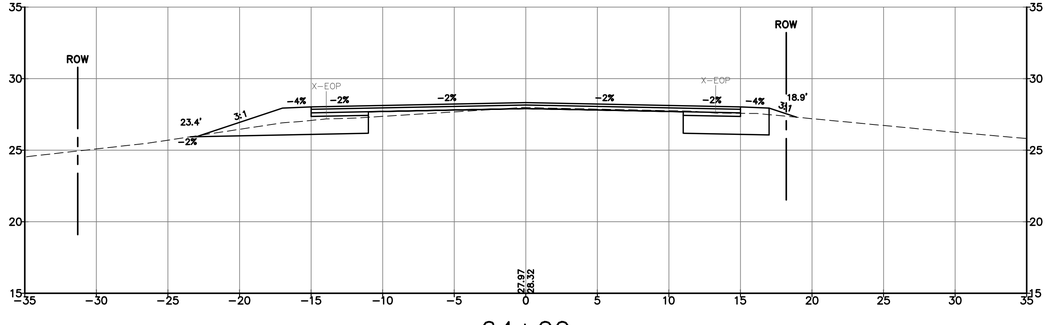
65+50



65+00



64+50



64+00

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3/10/2026

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SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

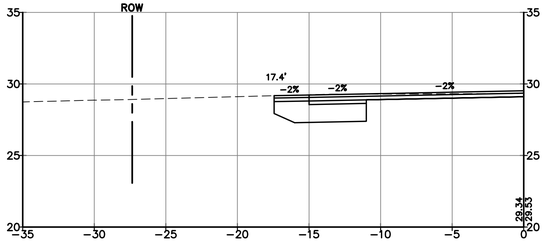
SHEET TITLE:

CROSS SECTIONS STA. 63+00 TO STA. 66+00

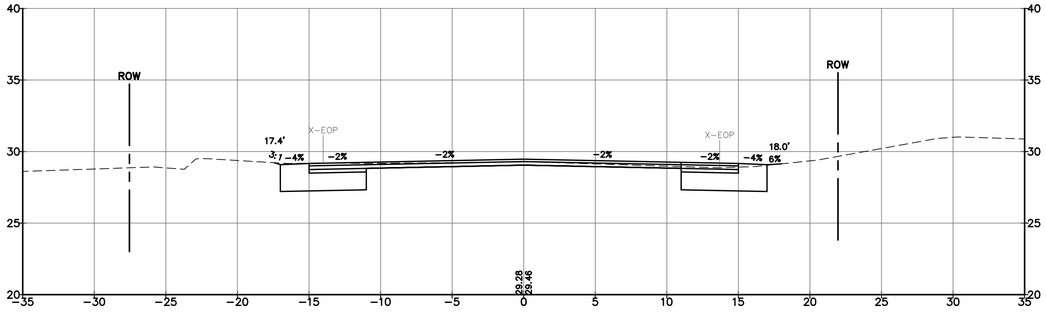
SHEET NO:

C-412

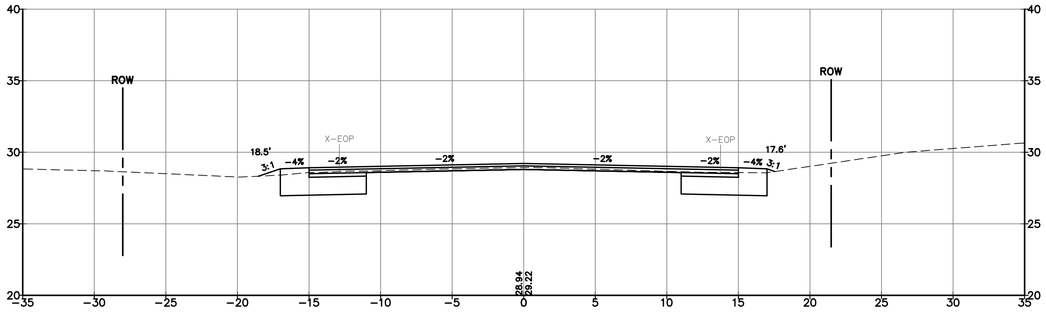
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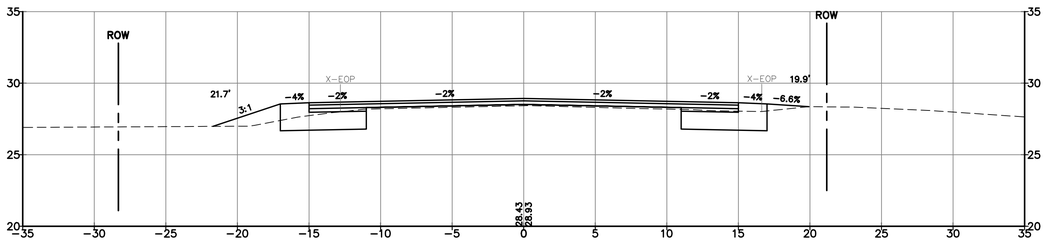
67+65



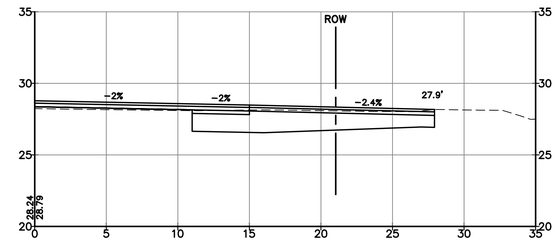
67+50



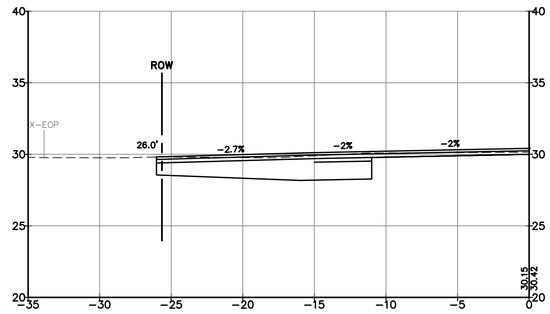
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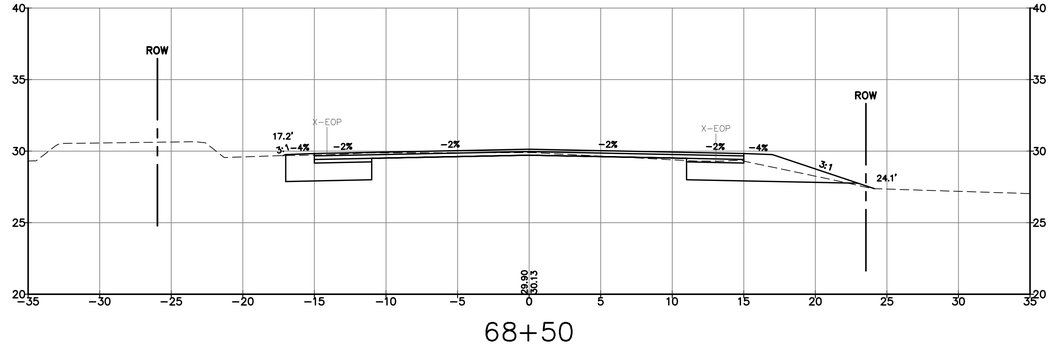
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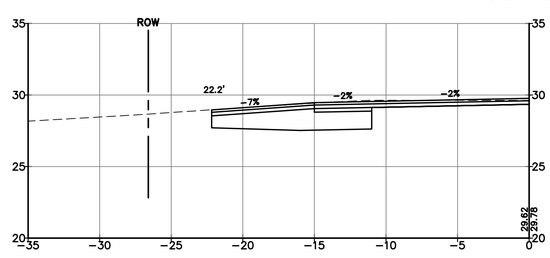
66+25



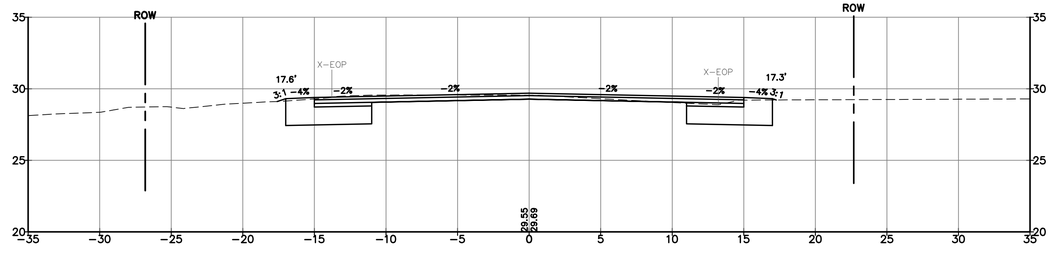
68+69



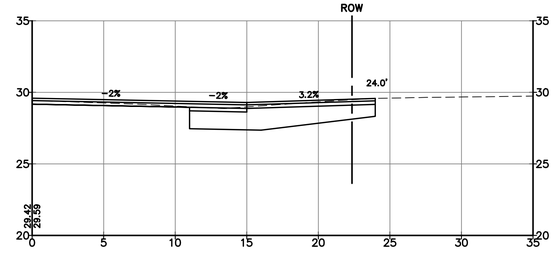
68+50



68+13



68+00



67+79

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CLIENT:

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20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

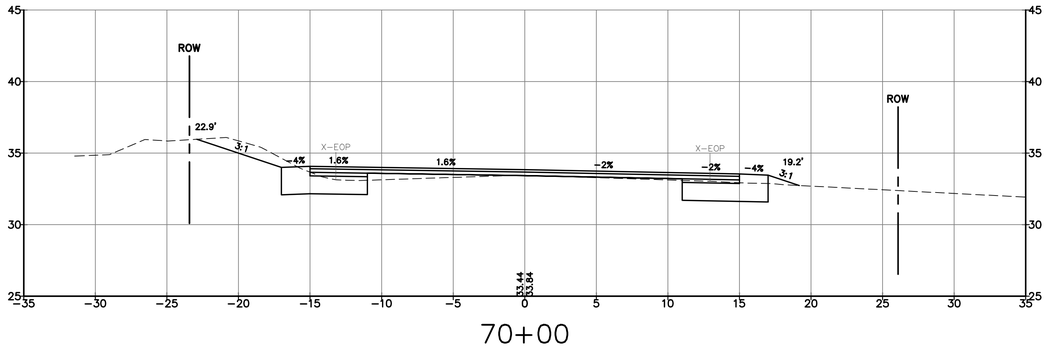
SHEET TITLE:

CROSS SECTIONS STA. 66+25 TO STA. 68+69

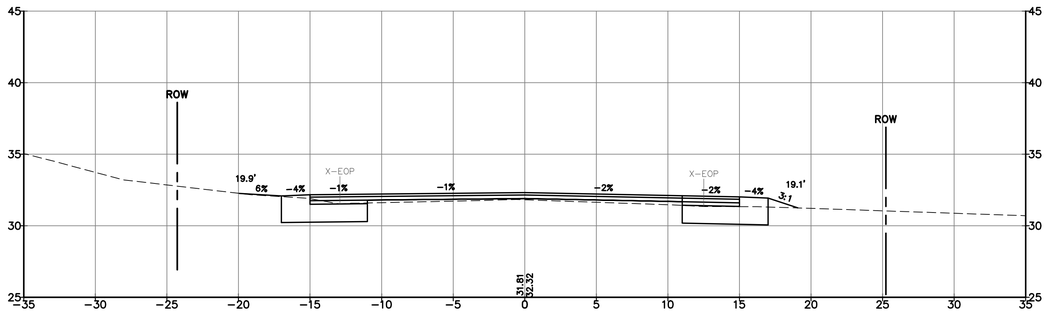
SHEET NO:

C-414

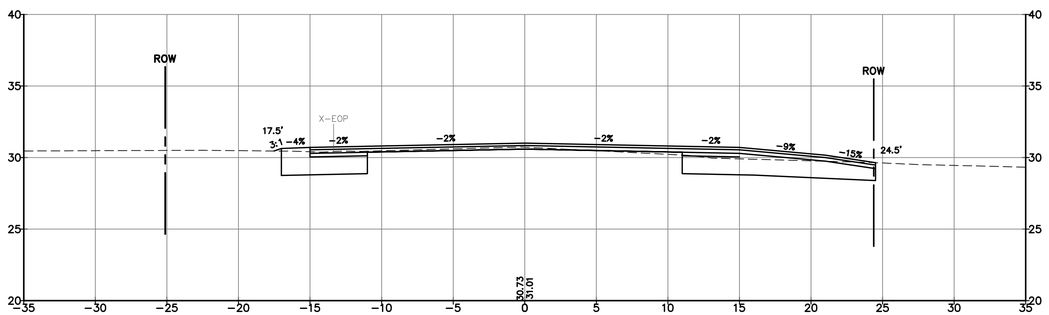
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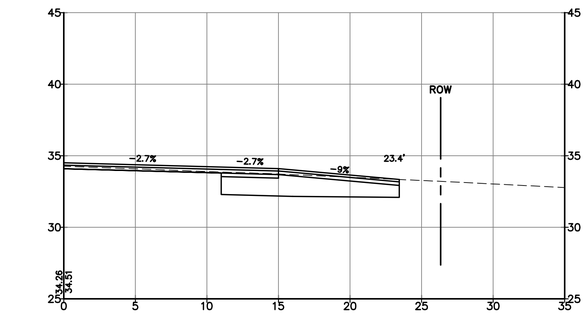
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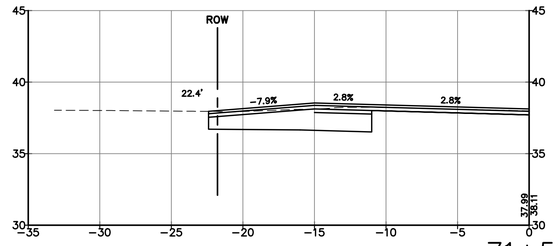
69+50



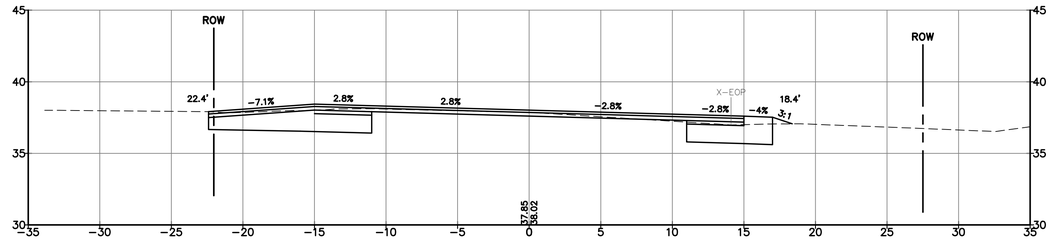
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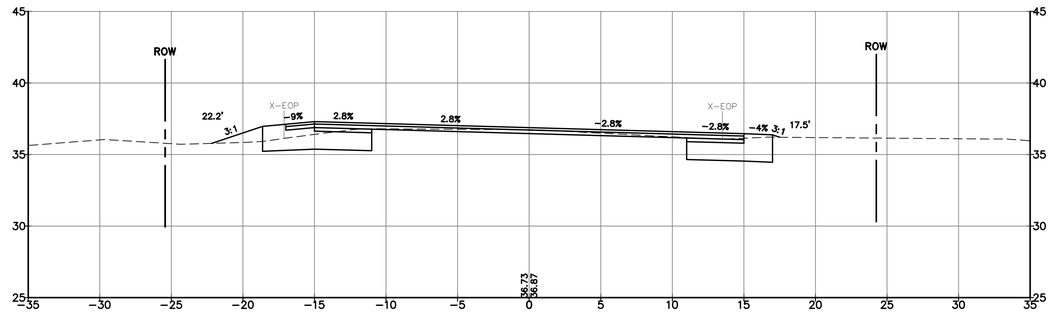
70+22



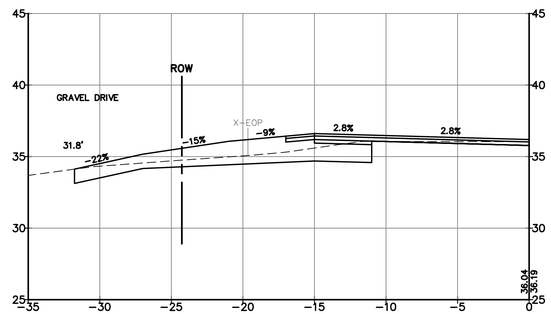
71+56



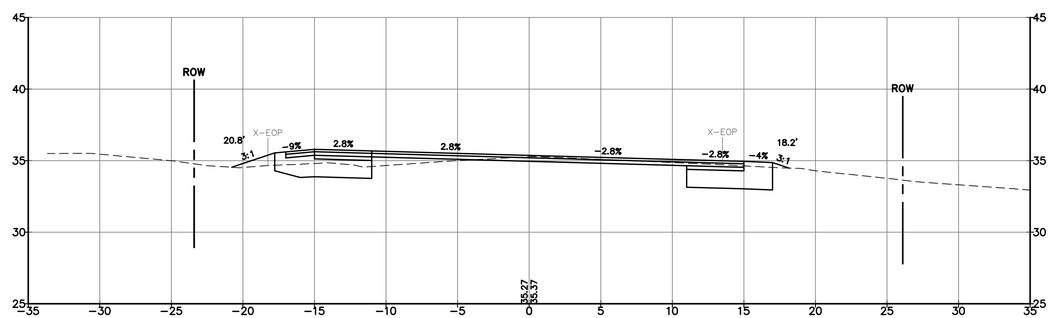
71+50



71+00



70+77



70+50

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REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY:	KSJ/PJD
DRAWN BY:	DB/JWG
CHECKED BY:	PJC
DATE:	3/10/2026
FILE NAME:	4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

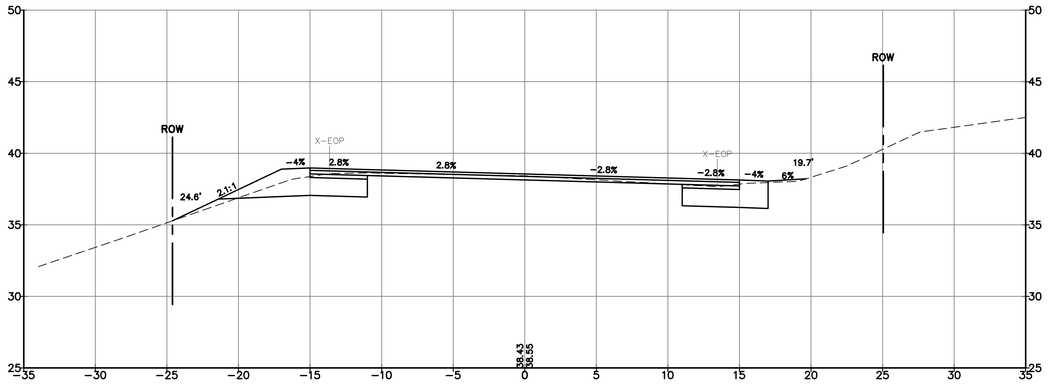
SHEET TITLE:

CROSS SECTIONS STA. 69+00 TO STA. 71+56

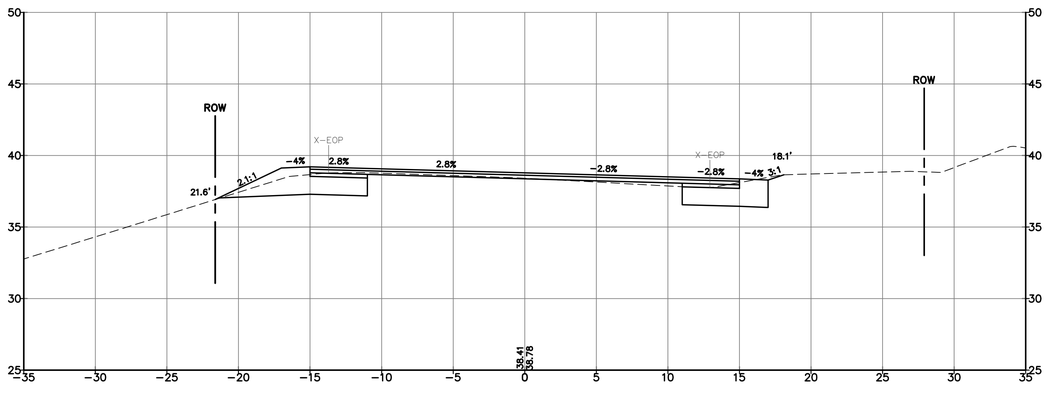
SHEET NO:

C-415

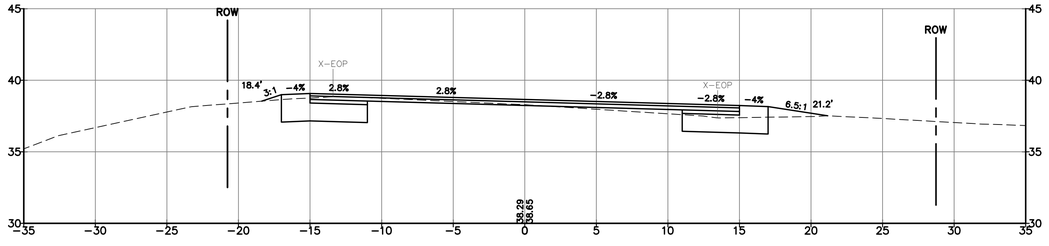
M:\Cad Drawings - Dwgs\Active Dwgs\4444 Town of Scarborough\4444-0004 Spurwink Rd - Phase 2\DWG\4444-0004 XSEC.dwg 3/10/2026 1:16:08 PM



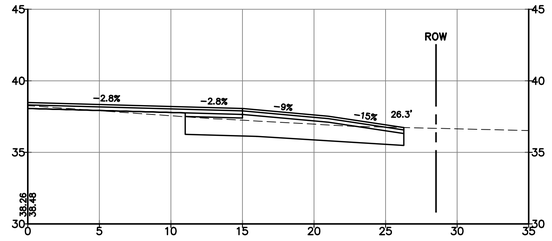
73+00



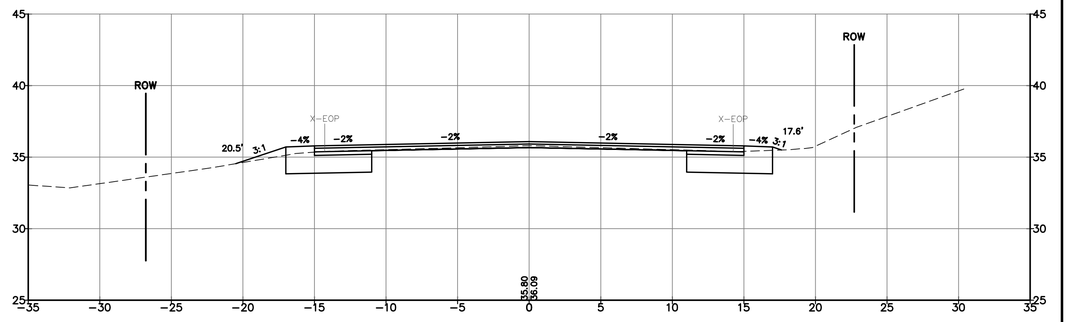
72+50



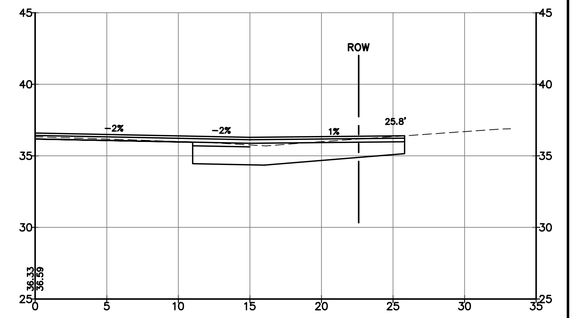
72+00



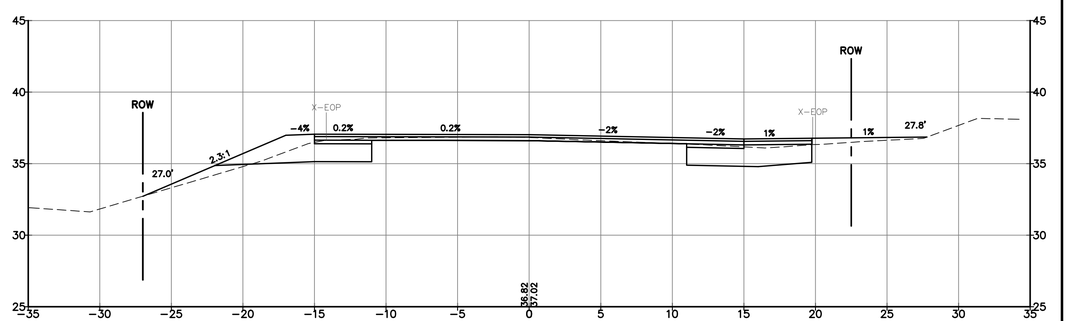
71+82



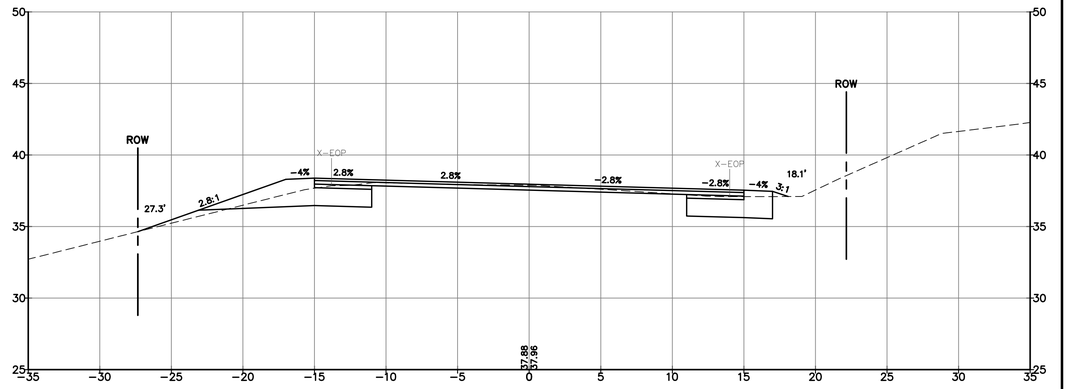
74+50



74+23



74+00



73+50

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

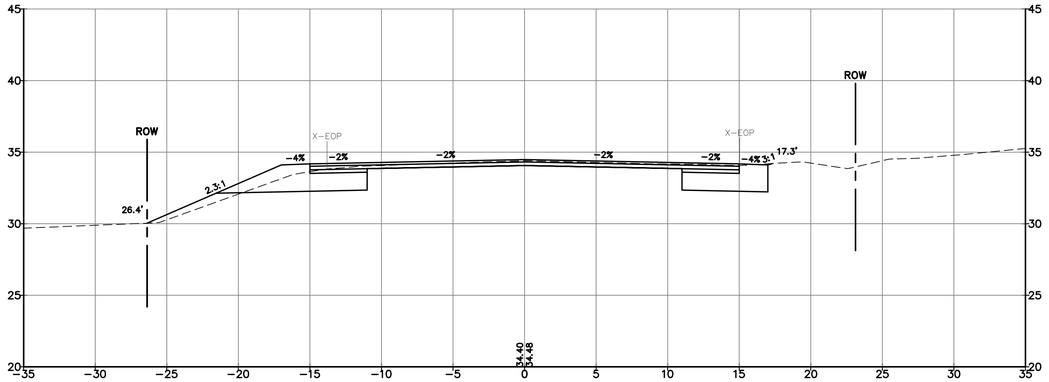
SHEET TITLE:

CROSS SECTIONS STA. 71+82 TO STA. 74+50

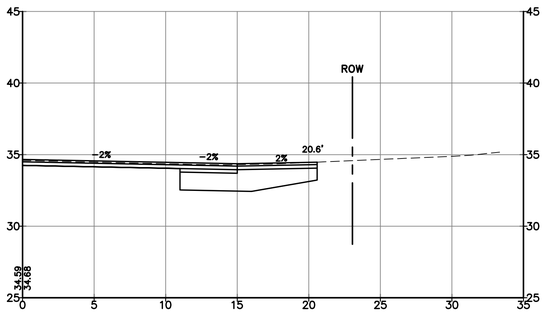
SHEET NO:

C-416

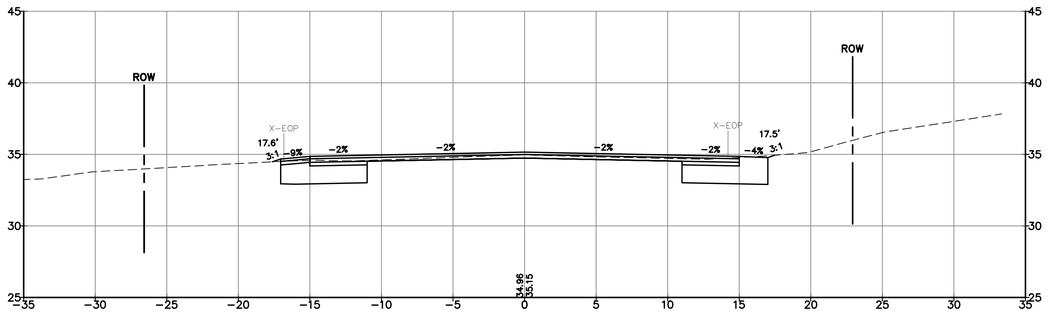
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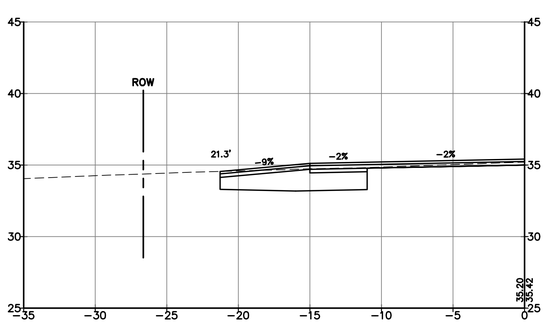
75+50



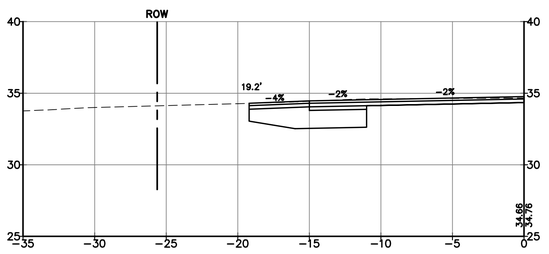
75+32



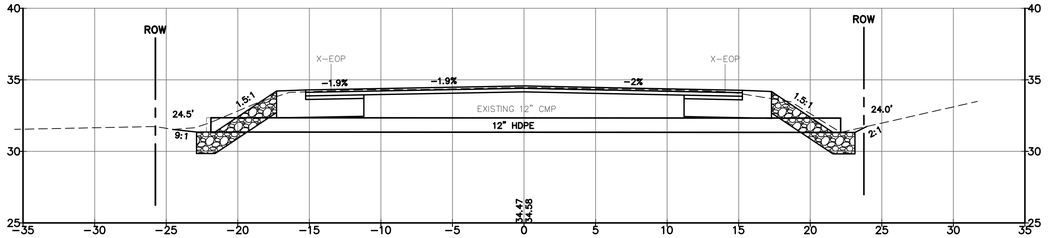
75+00



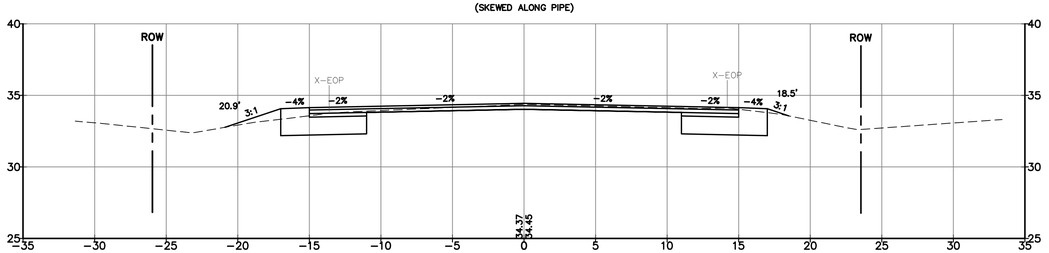
74+86



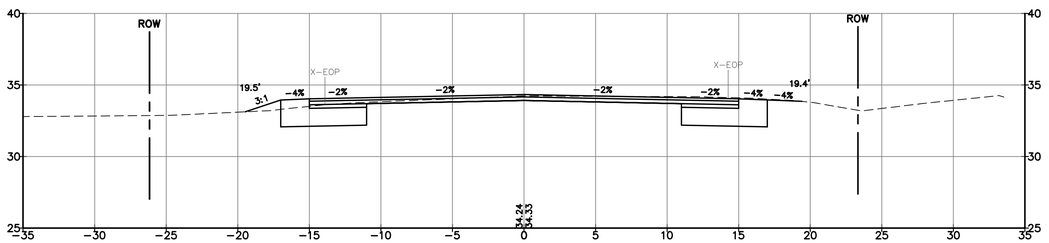
77+30



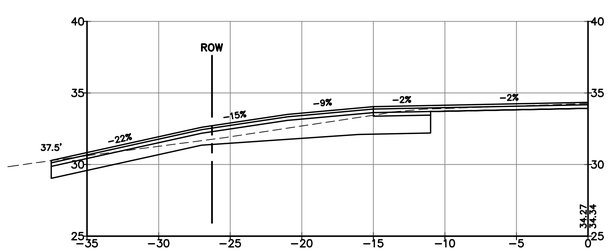
77+00
(SKEWED ALONG PIPE)



76+50



76+00



75+75

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

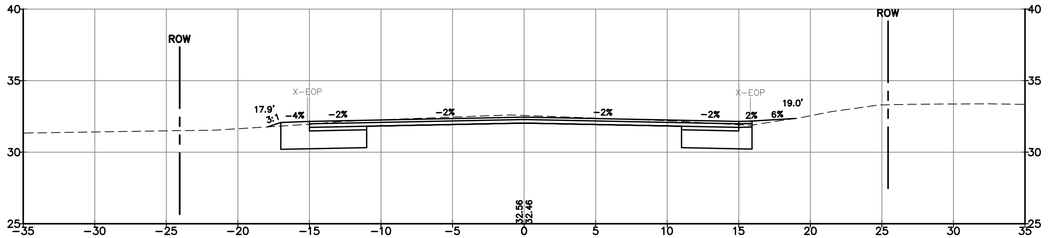
SHEET TITLE:

CROSS SECTIONS STA. 74+86 TO STA. 77+30

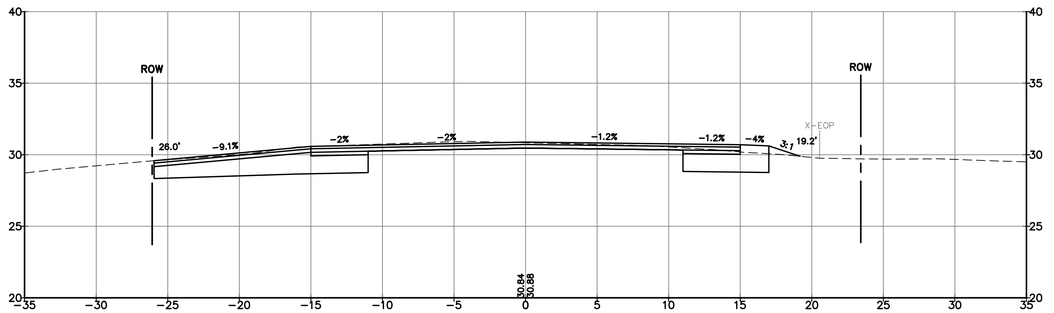
SHEET NO:

C-417

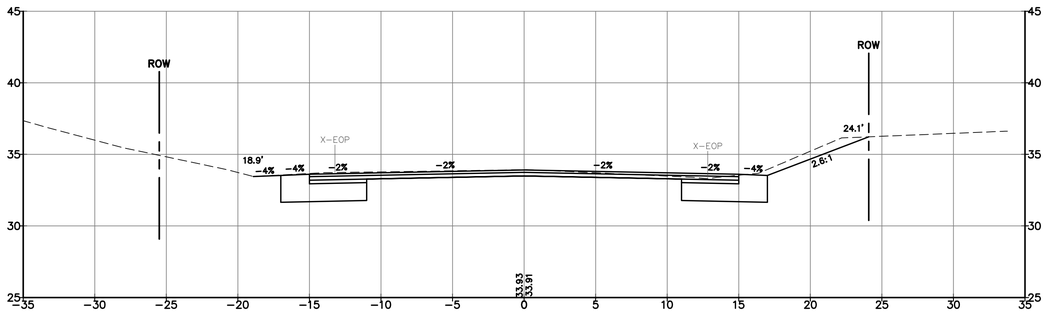
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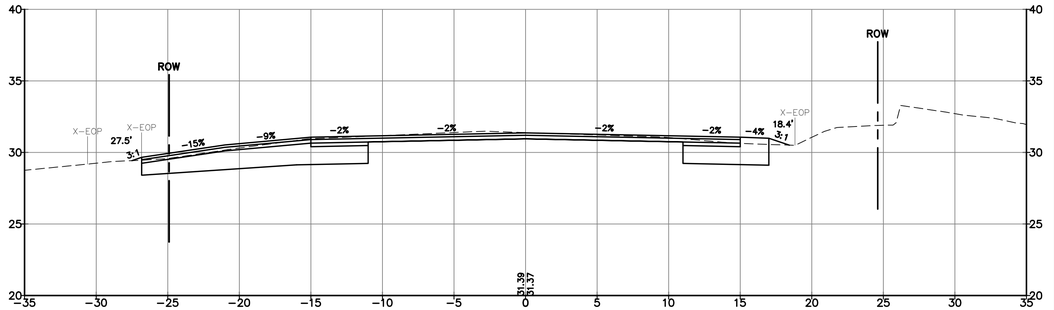
79+00



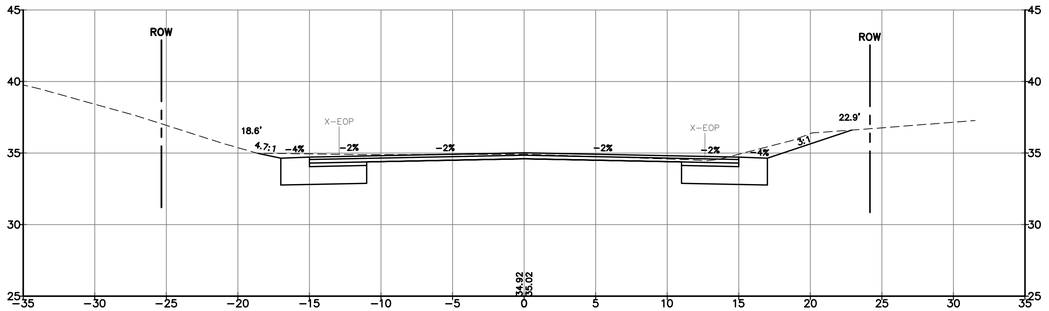
80+00



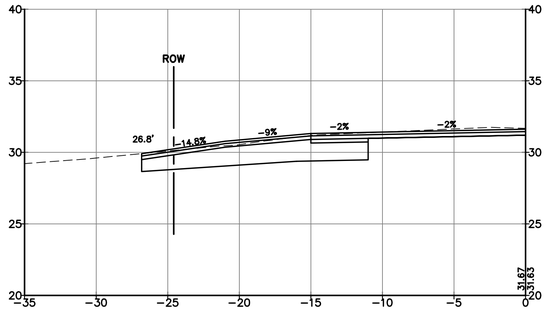
78+50



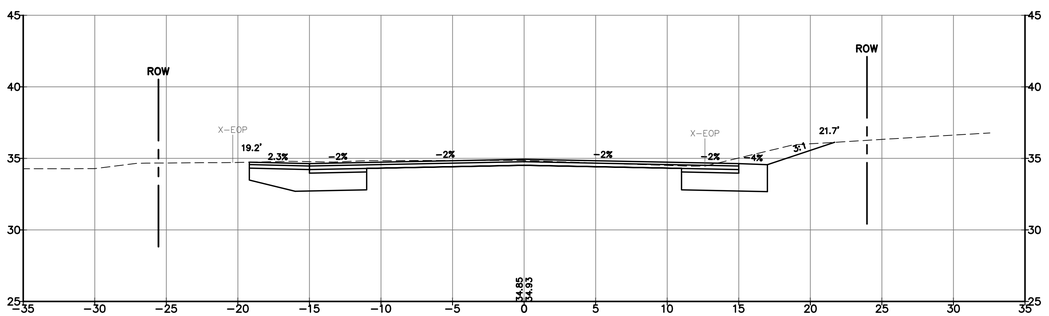
79+50



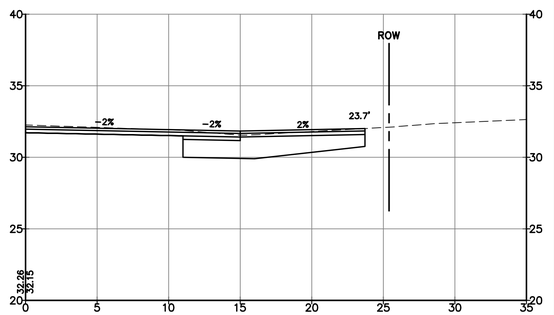
78+00



79+36



77+50



79+12

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

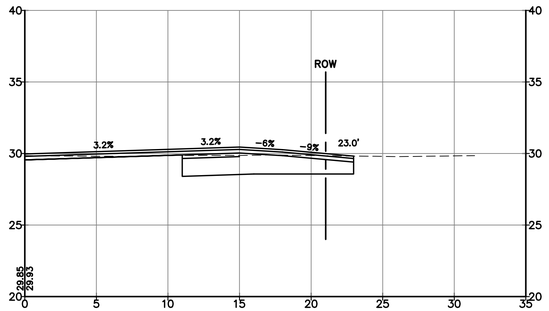
SHEET TITLE:

CROSS SECTIONS STA. 77+50 TO STA. 80+00

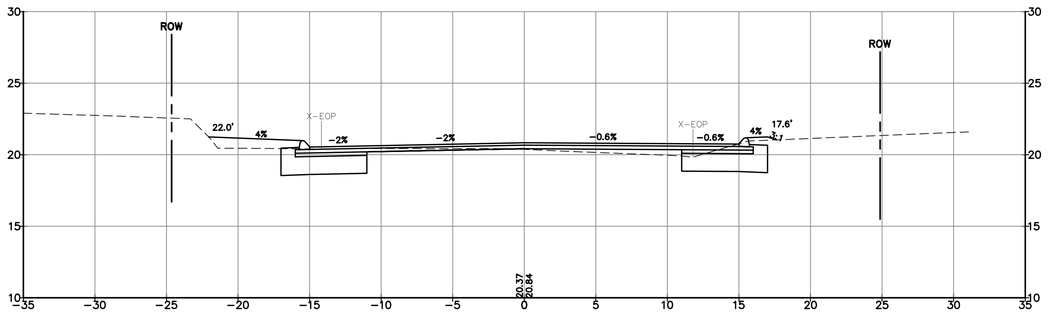
SHEET NO:

C-418

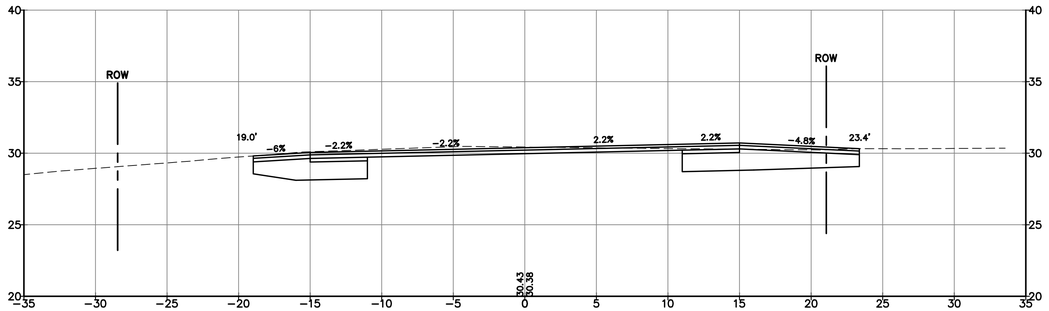
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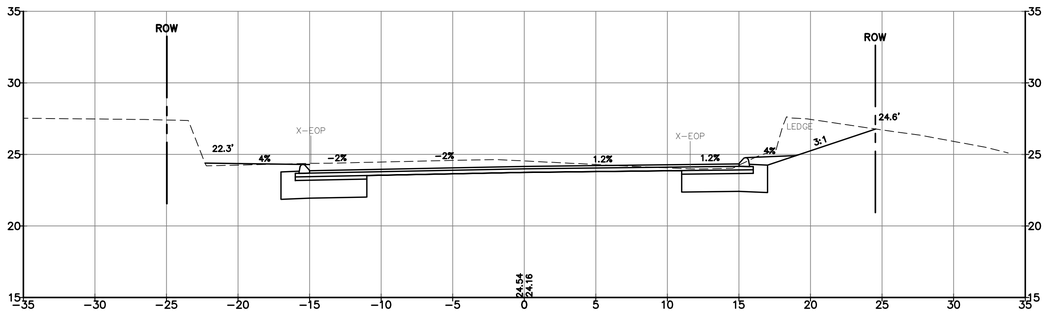
81+37



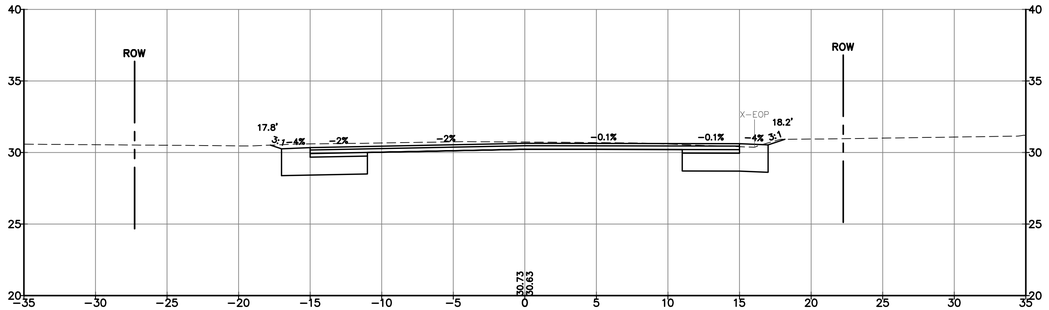
83+00



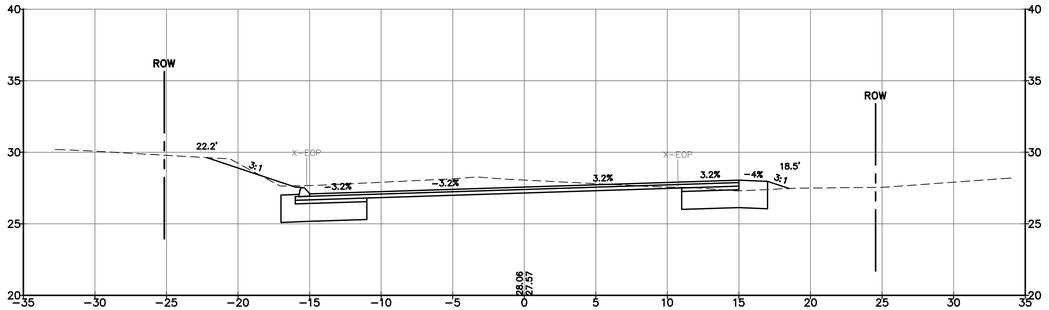
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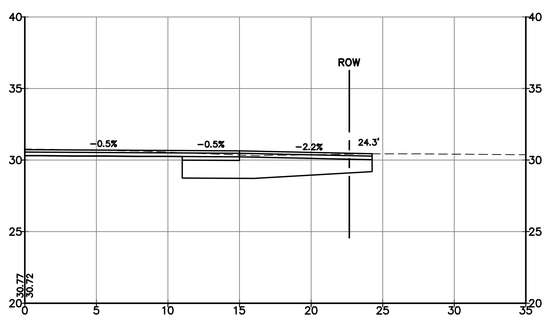
82+50



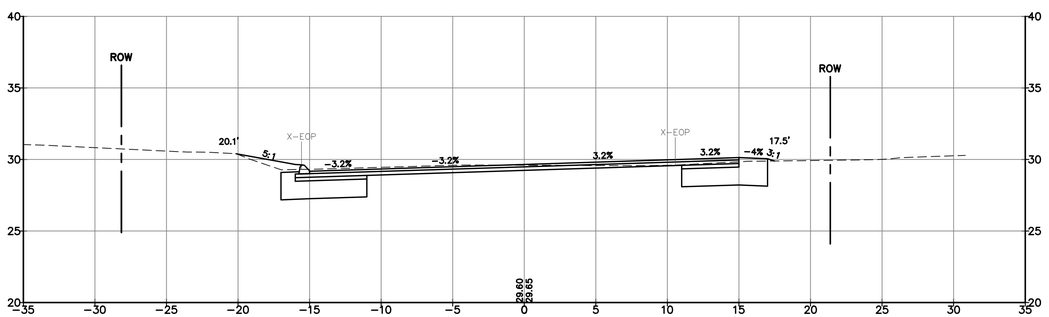
80+50



82+00



80+32



81+50

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER

3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

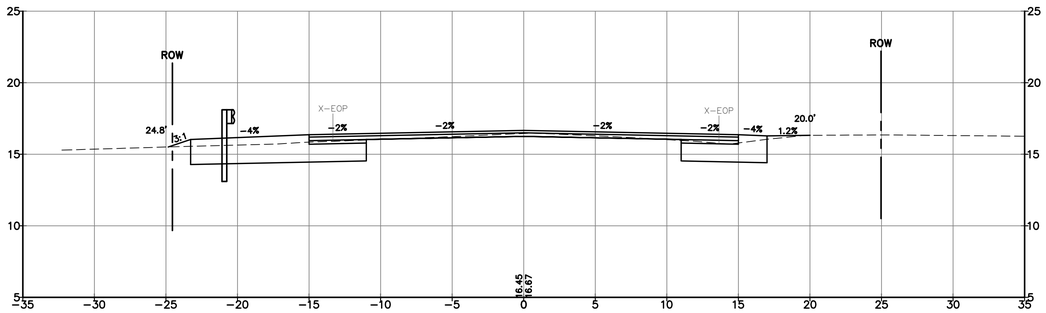
SHEET TITLE:

CROSS SECTIONS STA. 80+32 TO STA. 83+00

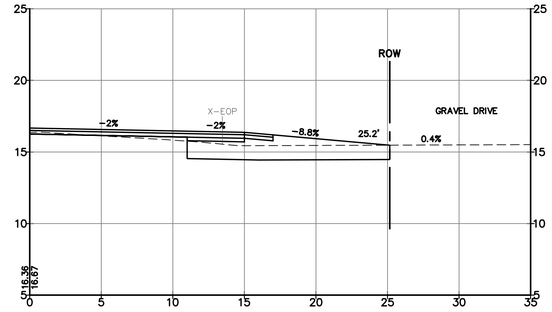
SHEET NO:

C-419

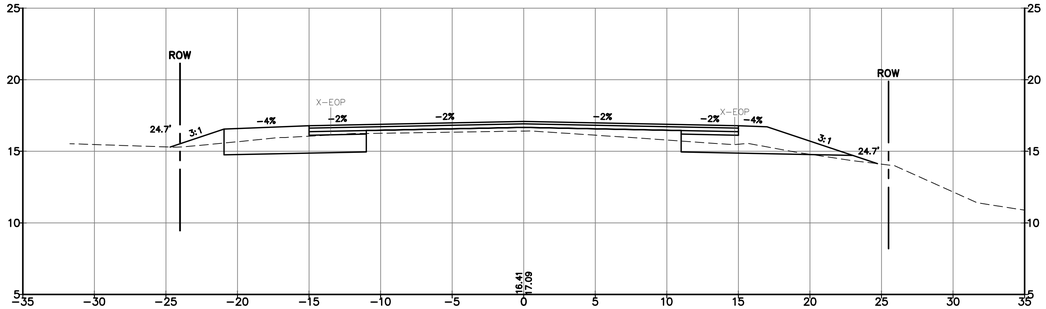
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84+50



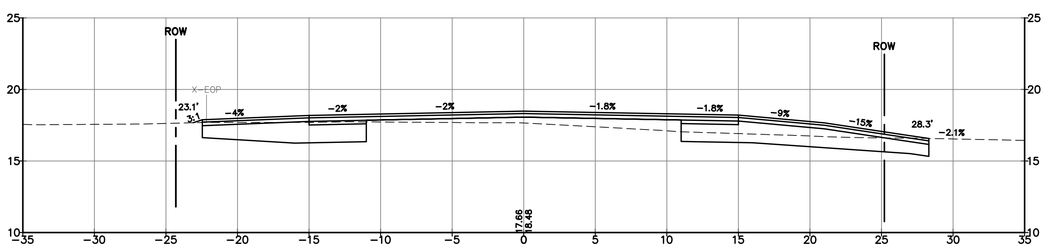
84+40



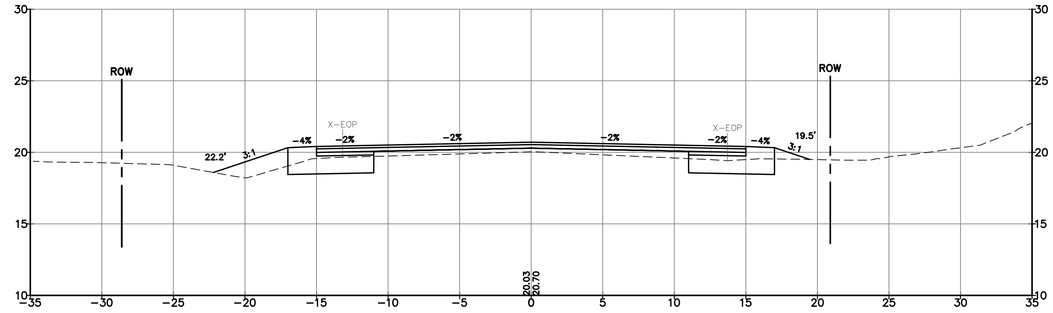
84+00



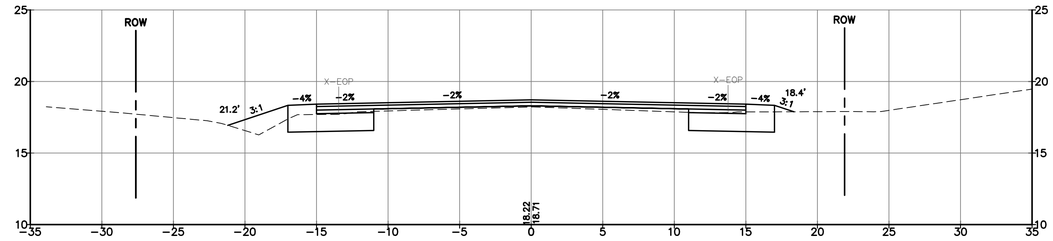
83+63



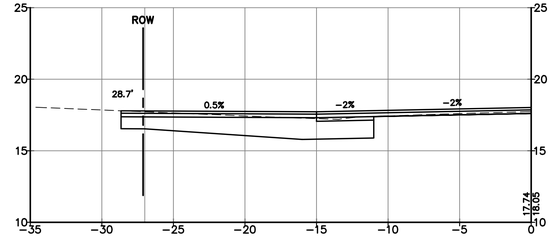
83+50



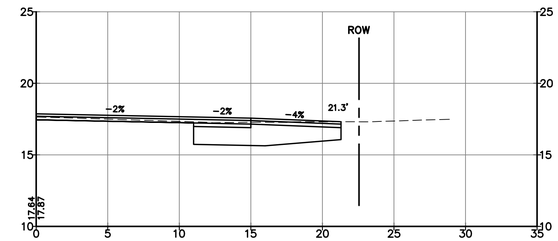
86+00



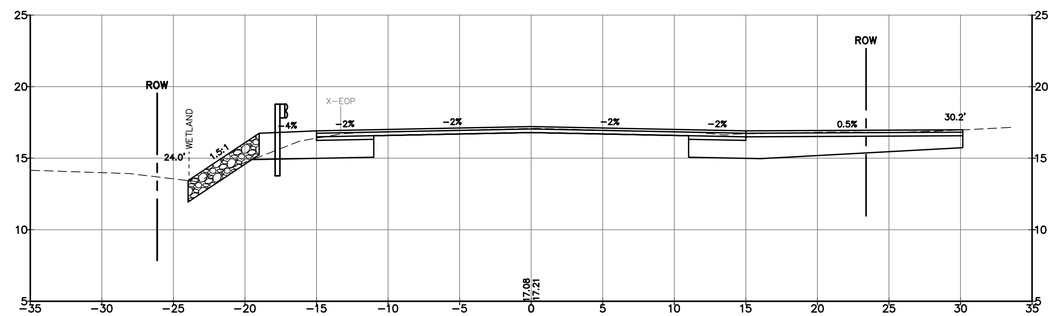
85+50



85+31



85+26



85+00

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
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PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

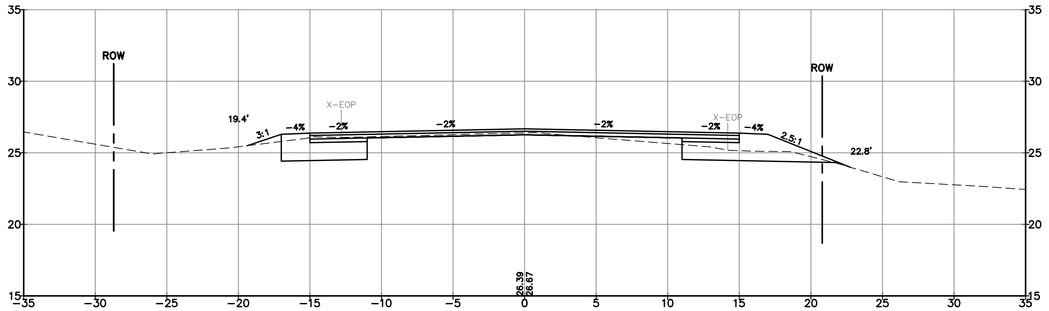
SHEET TITLE:

CROSS SECTIONS STA. 83+50 TO STA. 86+00

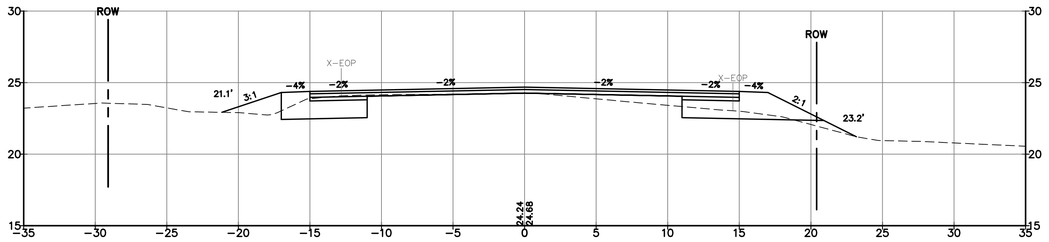
SHEET NO:

C-420

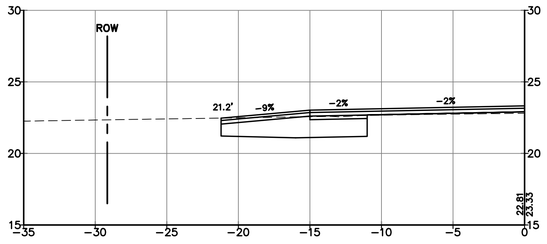
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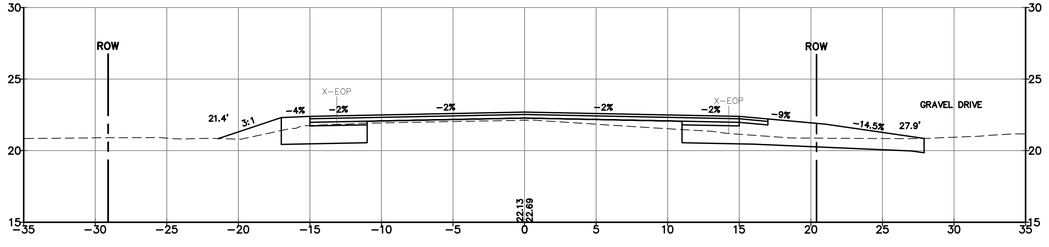
87+50



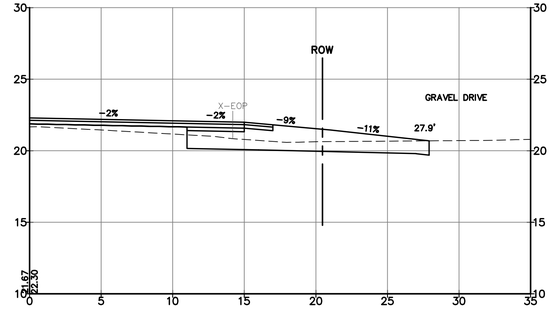
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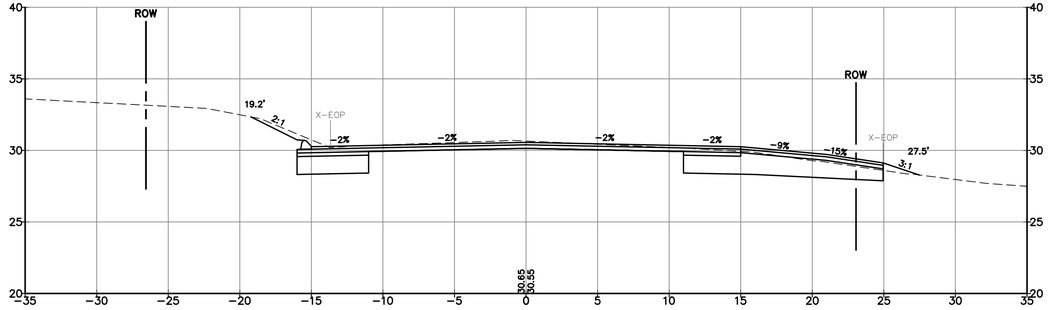
86+66



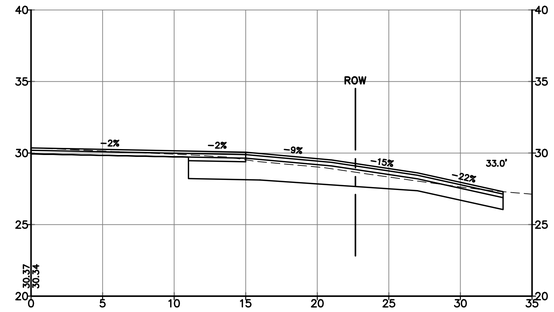
86+50



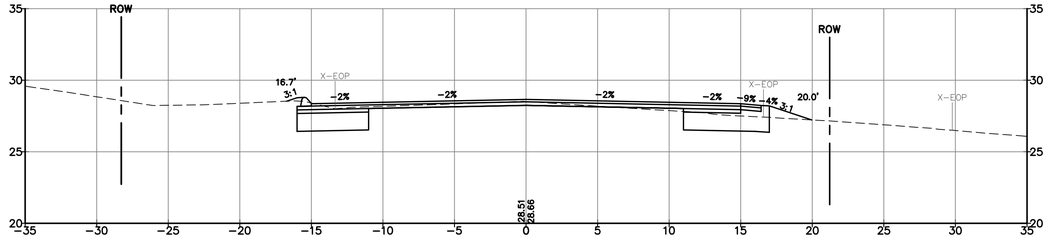
86+40



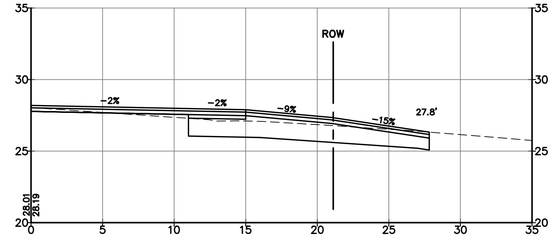
88+50



88+44



88+00



87+88

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

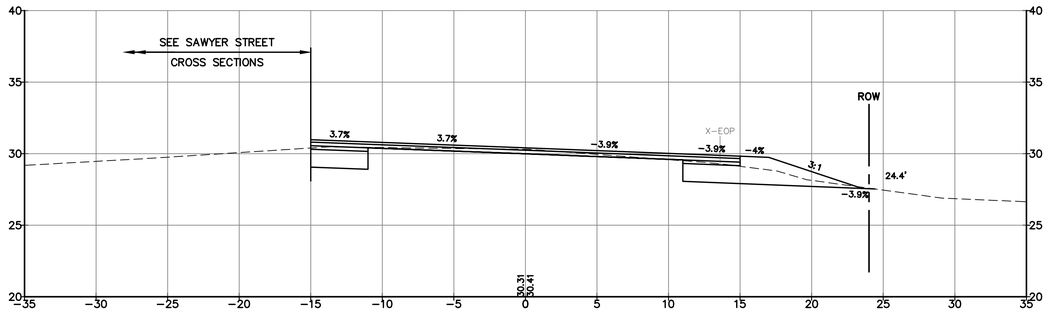
SHEET TITLE:

CROSS SECTIONS STA. 86+40 TO STA. 88+50

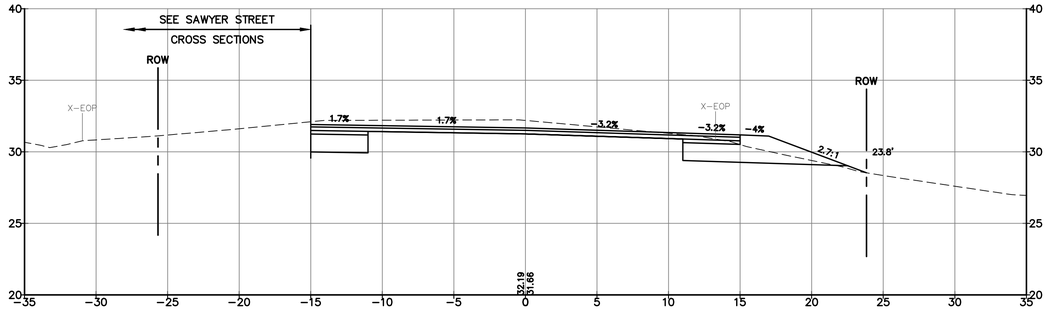
SHEET NO:

C-421

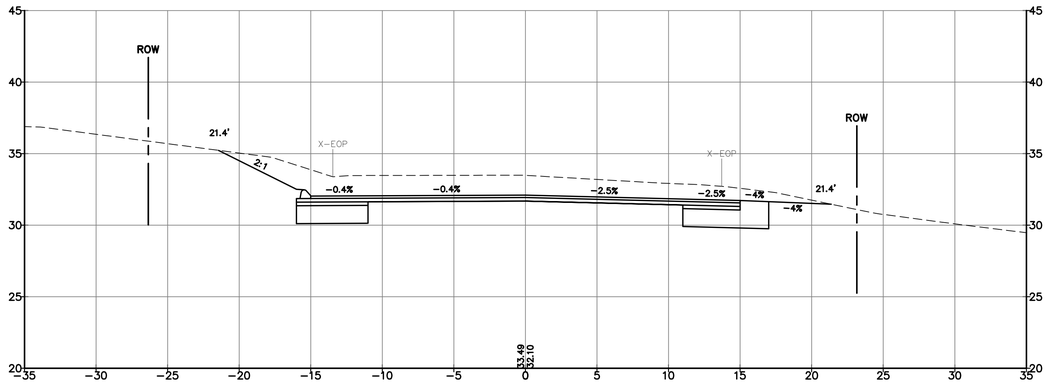
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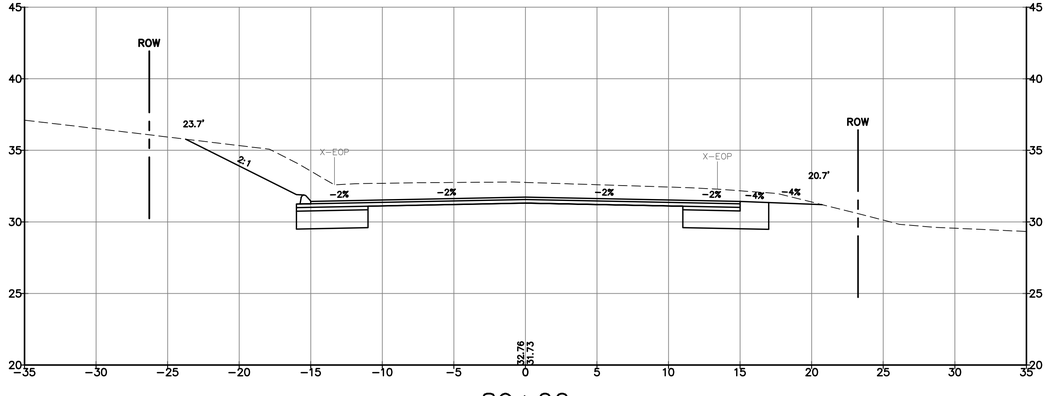
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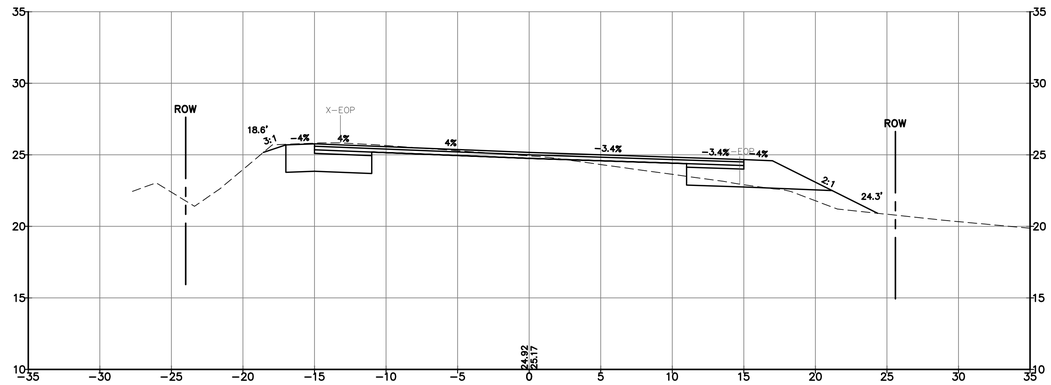
90+00



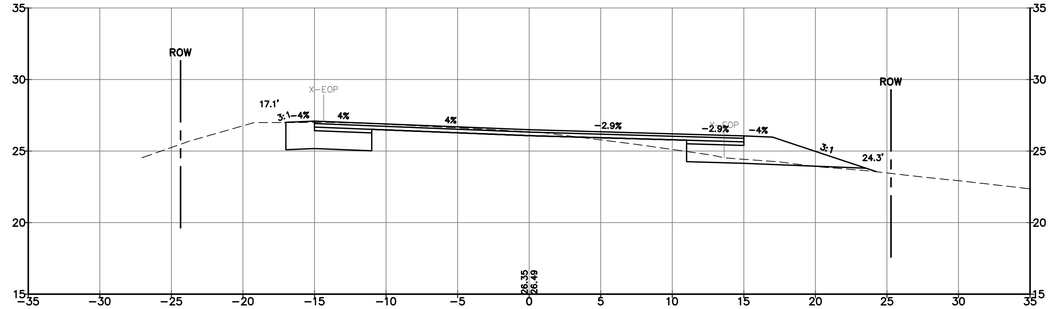
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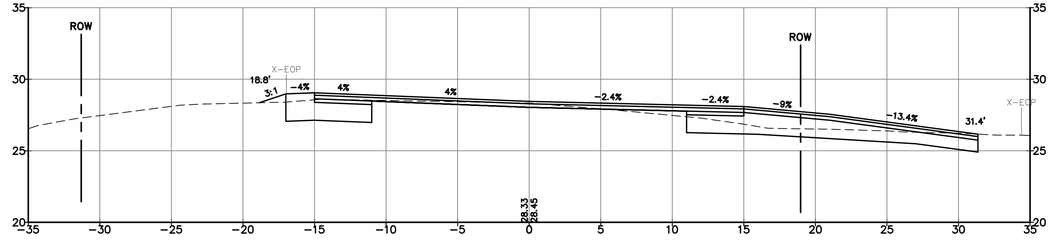
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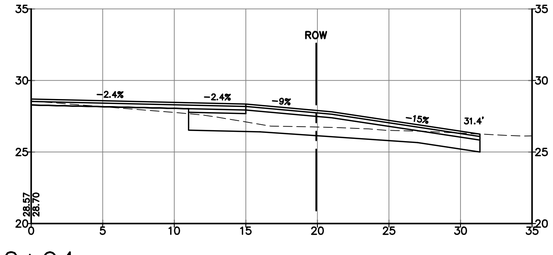
92+00



91+50



91+00



90+94

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
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DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

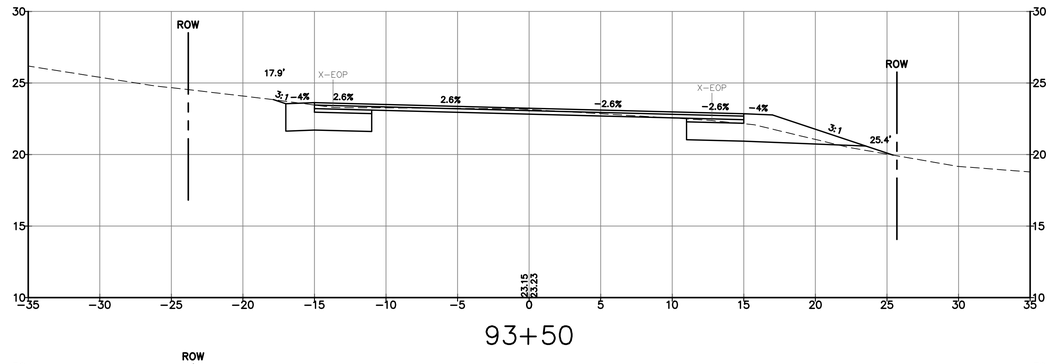
SHEET TITLE:

CROSS SECTIONS STA. 89+00 TO STA. 92+00

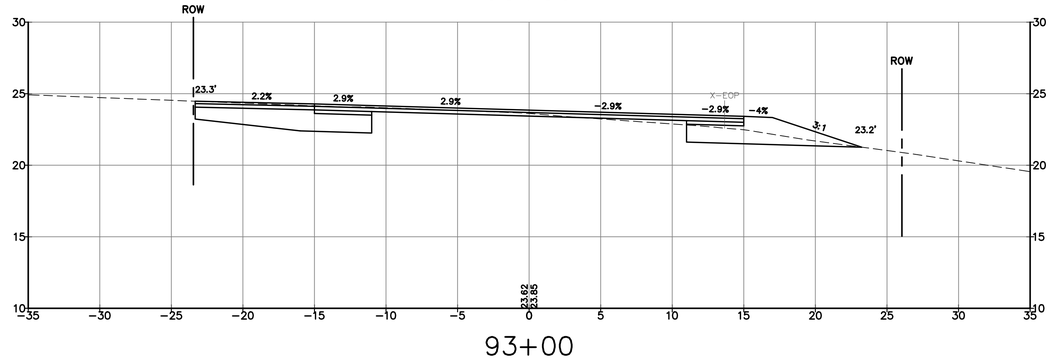
SHEET NO:

C-422

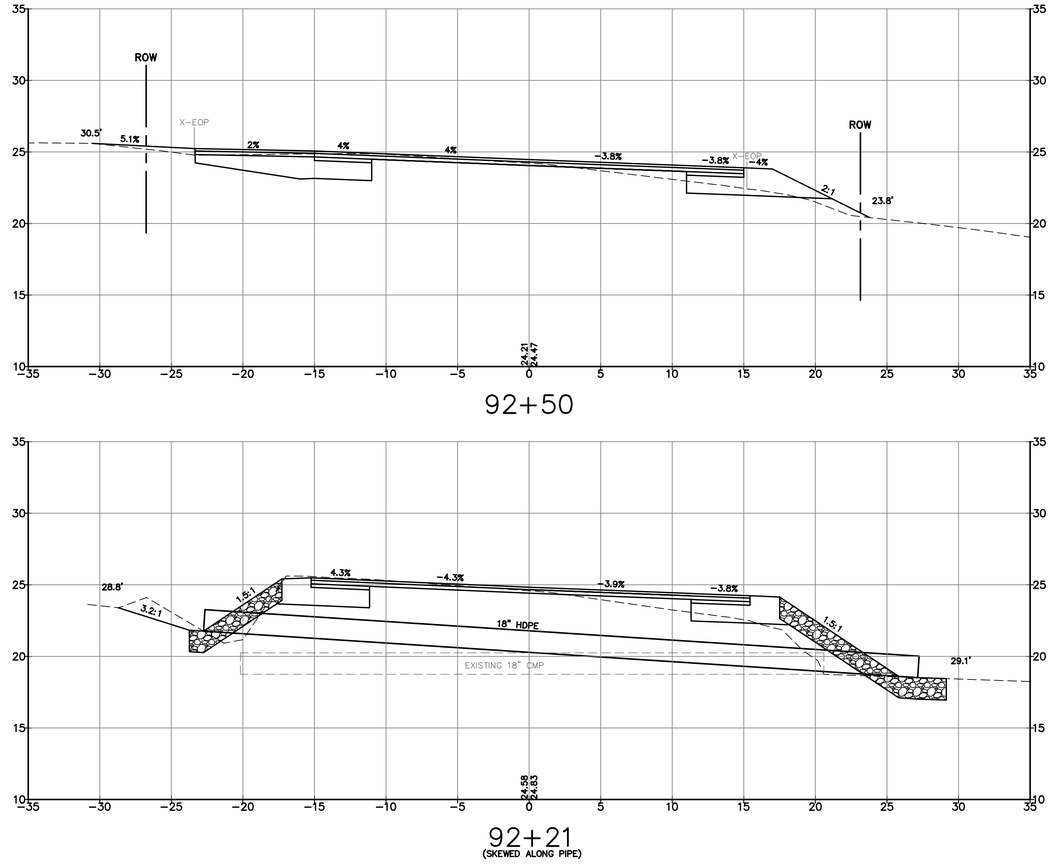
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93+50

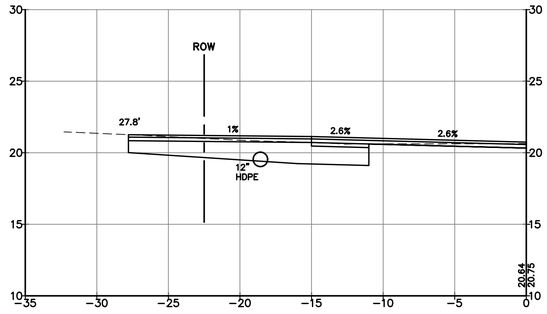


93+00

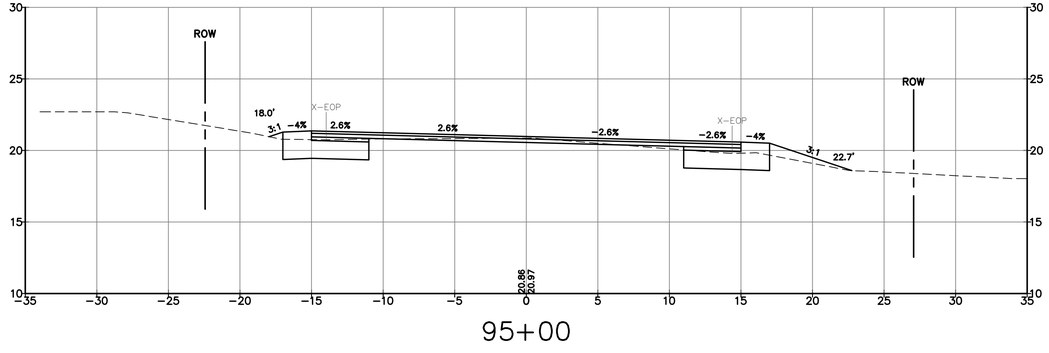


92+50

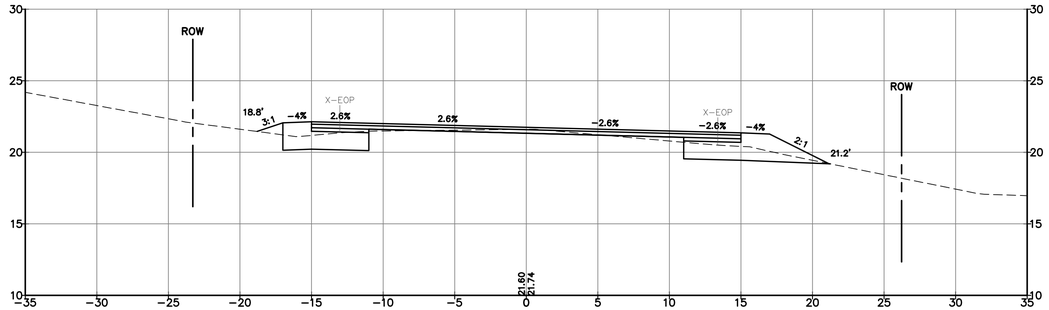
92+21
(SKEWED ALONG PIPE)



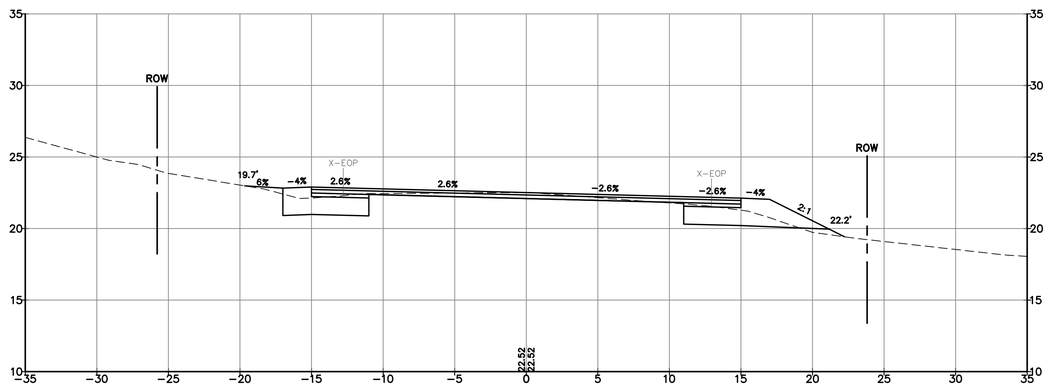
95+16



95+00



94+50



94+00

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
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DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

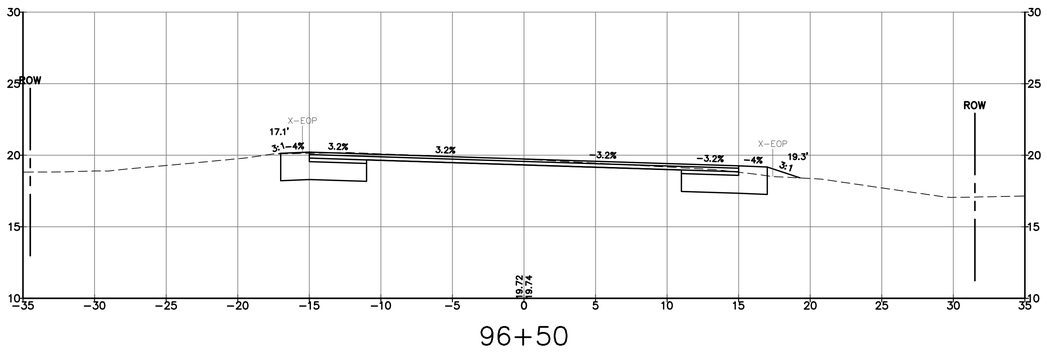
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CROSS SECTIONS STA. 92+21 TO STA. 95+16

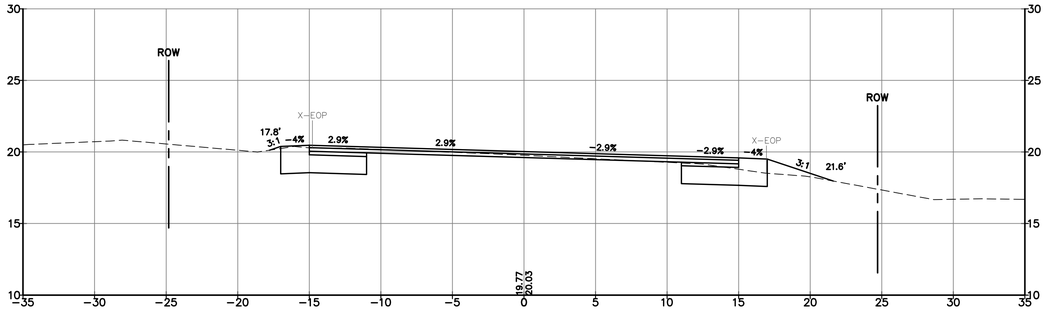
SHEET NO:

C-423

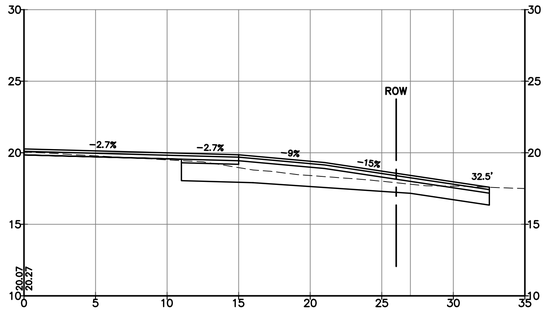
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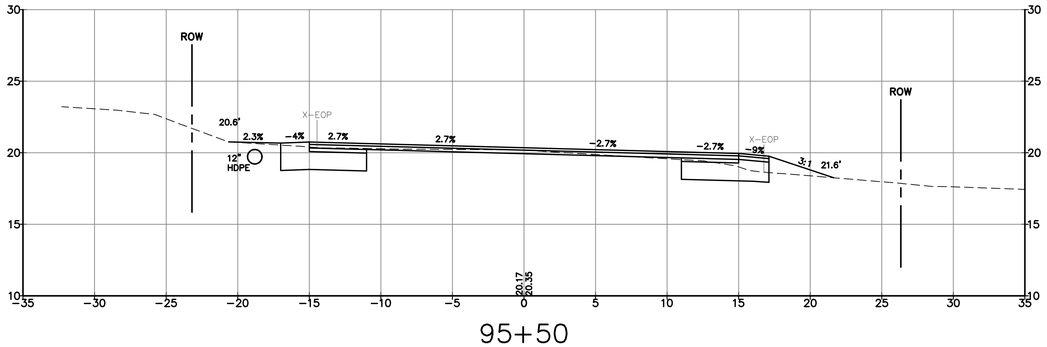
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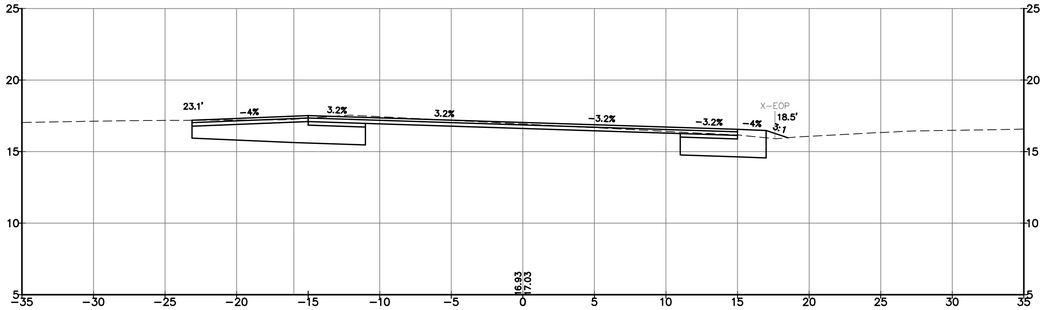
96+00



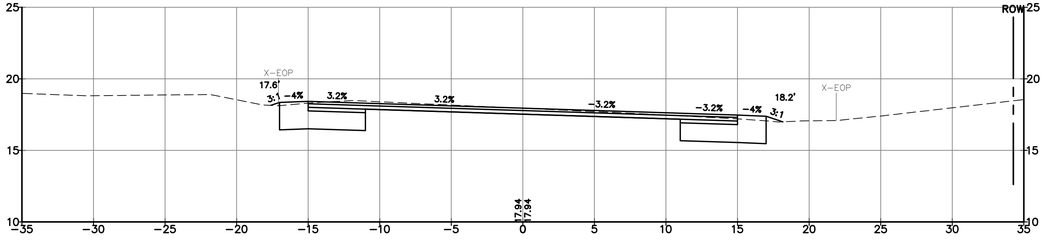
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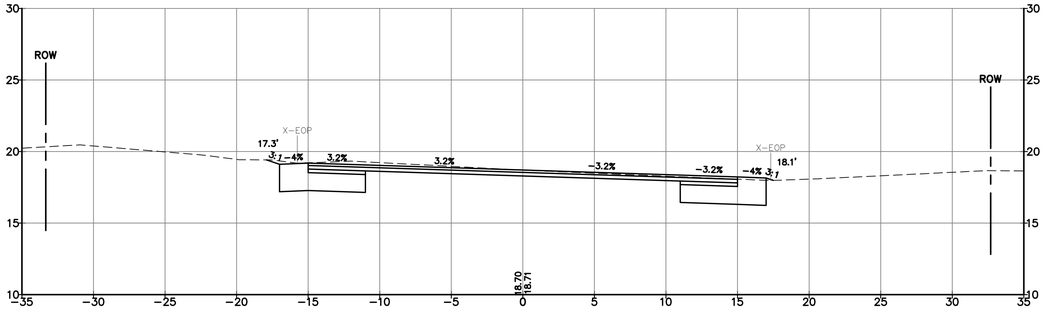
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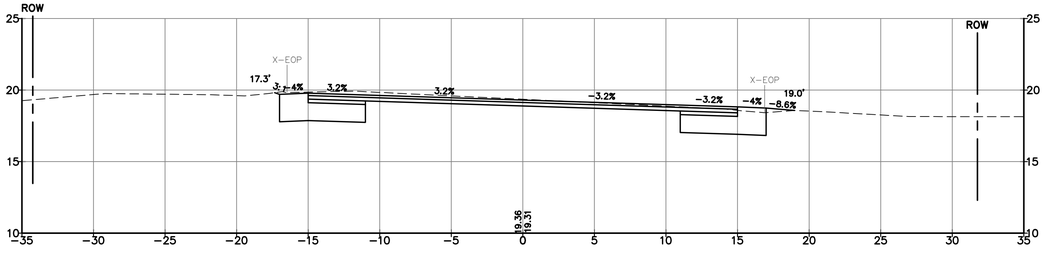
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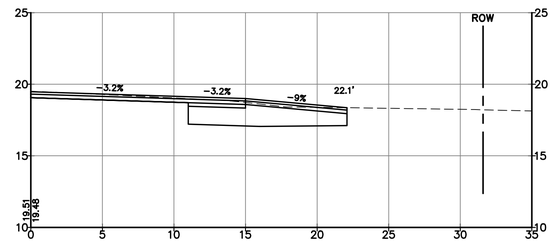
98+00



97+50



97+00



96+82

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

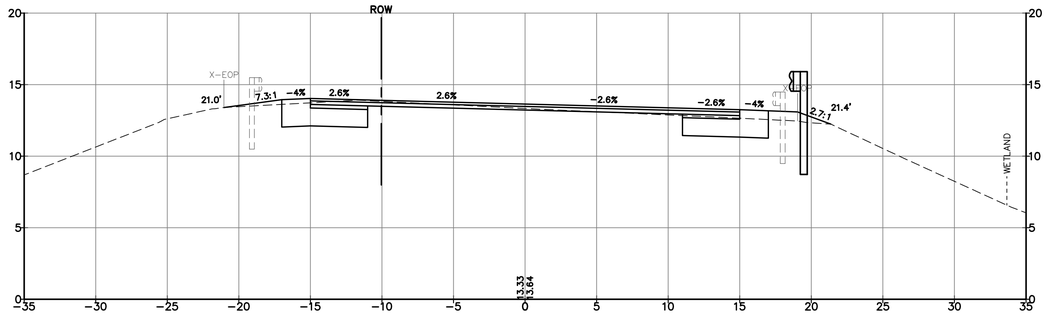
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CROSS SECTIONS STA. 95+50 TO STA. 98+50

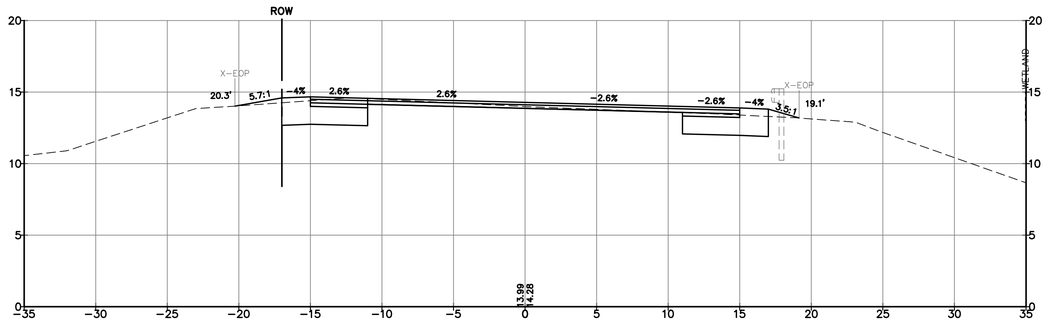
SHEET NO:

C-424

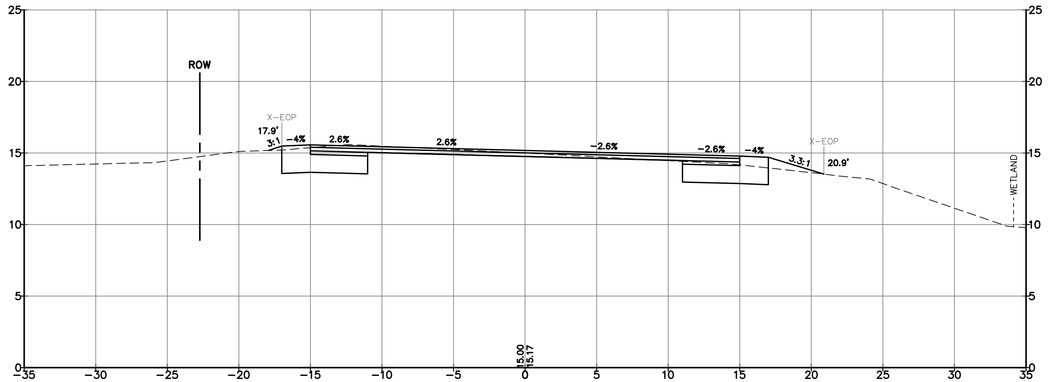
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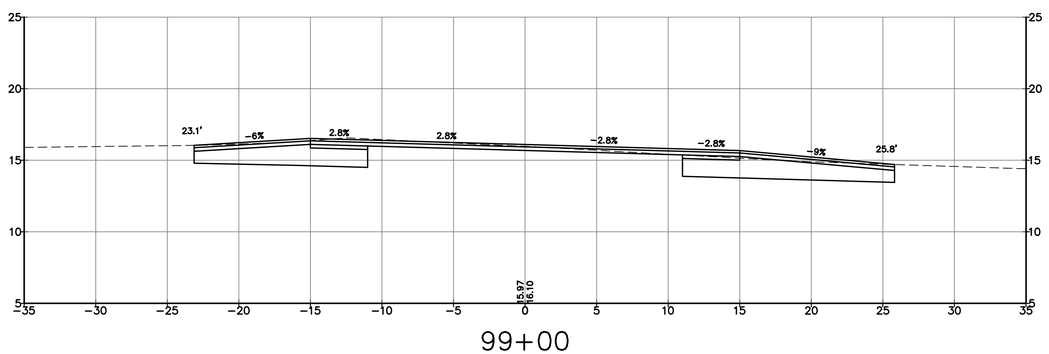
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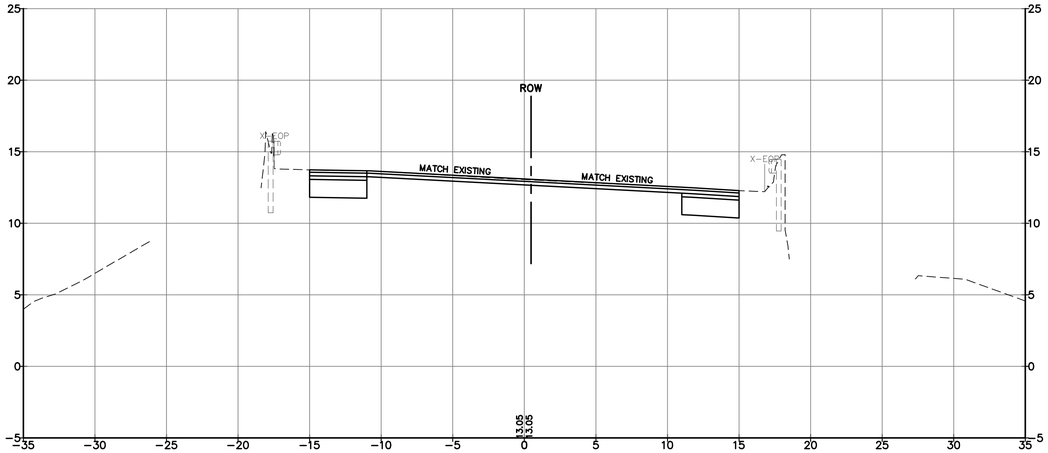
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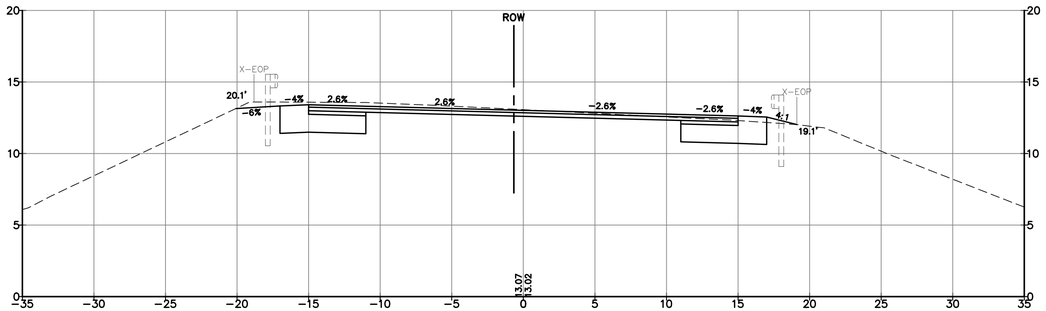
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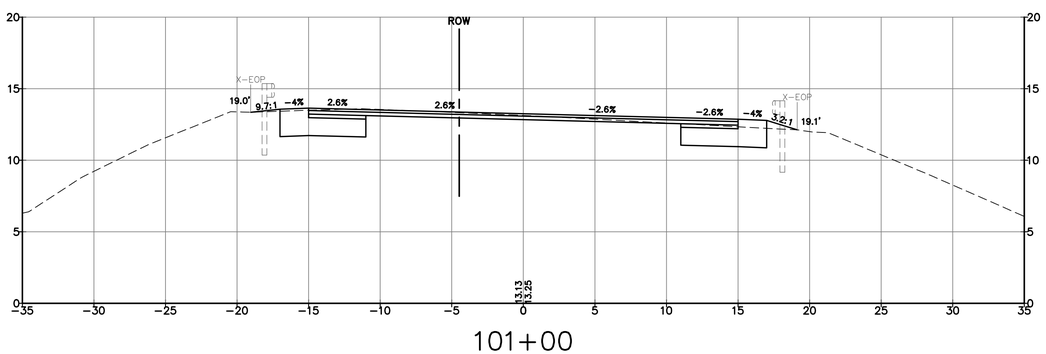
99+00



101+72



101+50



101+00

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
0	8/29/25	ISSUED FOR BID
1	3/10/26	ISSUED FOR CONSTRUCTION

DESIGNED BY: KSJ/PJD
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PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

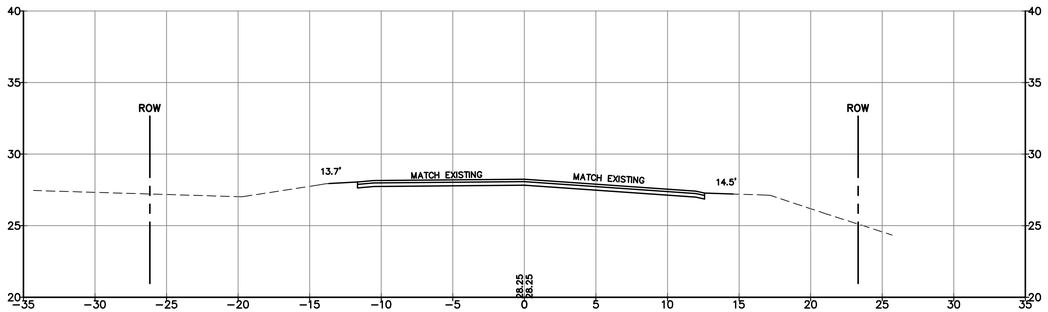
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CROSS SECTIONS STA. 99+00 TO STA. 101+72

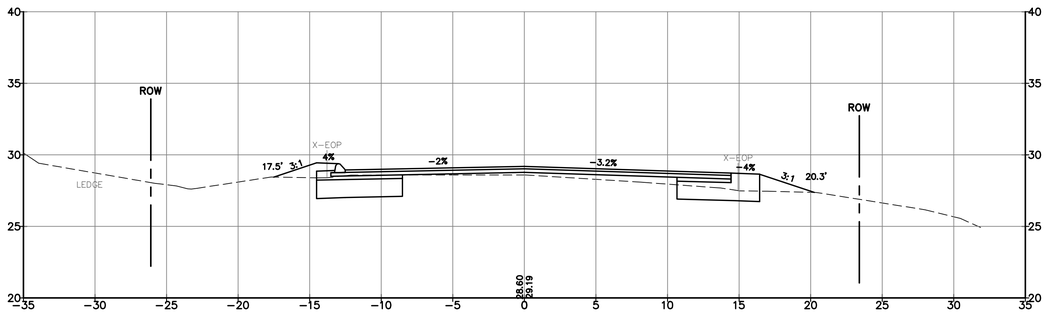
SHEET NO:

C-425

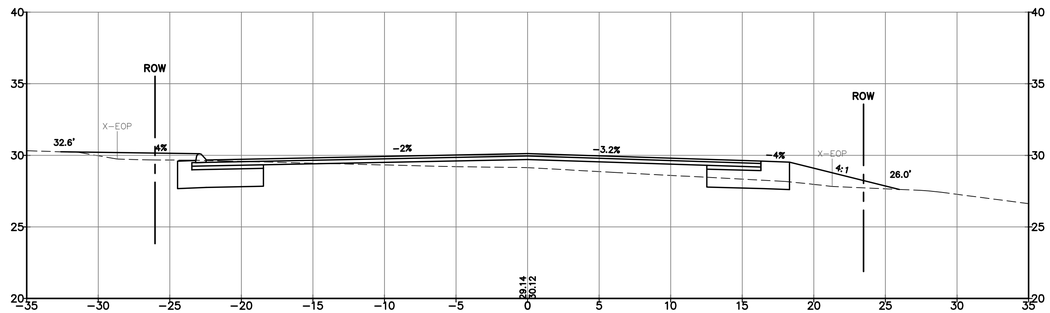
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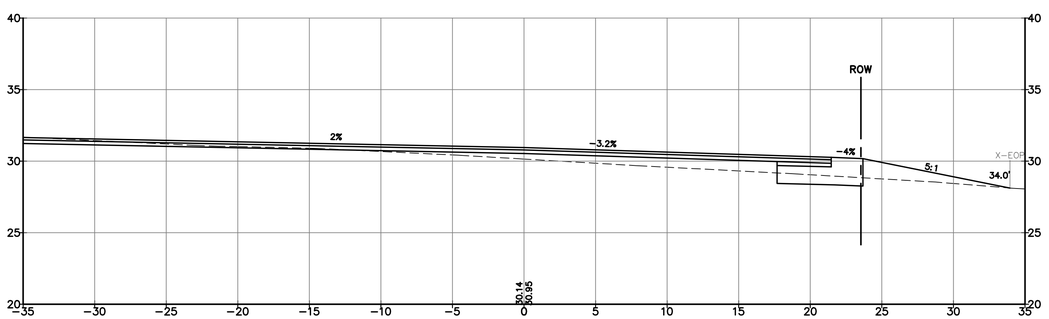
SAWYER STREET 1+00



SAWYER STREET 0+75



SAWYER STREET 0+50



SAWYER STREET 0+25

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
3/10/2026

REV.	DATE	REVISION DESCRIPTION
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DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
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FILE NAME: 4444-0004 XSEC.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

CROSS SECTIONS SAWYER STREET STA. 0+25 TO STA. 1+00

SHEET NO:

C-426

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EROSION AND SEDIMENTATION CONTROL NOTES

TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES INCLUDE THE USE OF SEDIMENT BARRIER, EROSION CONTROL MIX, STONE CHECK DAMS, HAY BALE BARRIERS, CATCH BASIN INLET BARRIERS, CATCH BASIN SEDIMENT COLLECTION BAGS, EROSION CONTROL BLANKET, AND TEMPORARY SEEDING AND MULCHING AS REQUIRED. PERMANENT DEVICES INCLUDE THE USE OF RIP RAP AT EXPOSED STORM DRAIN AND CULVERT INLETS AND OUTLETS, RIP RAPPED SLOPES, AND PERMANENT VEGETATION.

A. GENERAL

1. IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN IN THE SPRING OF 2026 FOLLOWING RECEIPT OF NECESSARY PERMITS.
2. THE PROJECT SHALL CONFORM TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARDS PERFORMANCE FOR EXCAVATIONS FOR CLAY, TOPSOIL OR SILT IN ACCORDANCE WITH STATE EROSION CONTROL LAW 38 MRSA 420–C.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES (BMP) PUBLISHED BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MAY 2003, OR AS CURRENTLY REVISED.
4. ANY CONTRACTOR EROSION AND SEDIMENTATION CONTROL DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE, DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERSONNEL AND/OR MUNICIPAL OFFICIALS SHALL BE INSTALLED.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING DURING CONSTRUCTION FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATER BODIES, OR WETLANDS AS A RESULT OF THIS PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE ABOVE PERSONNEL. DESCRIPTIONS OF ACCEPTABLE PERMANENT STABILIZATION FOR VARIOUS COVER TYPES FOLLOWS:

A. FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS 90% COVERAGE OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

B. FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE–OFF.

C. FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH MULCH. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE BMP APPLICATION RATES AND LIMITATIONS.

D. FOR AREAS STABILIZED WITH RIP RAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIP RAP HAVE AN APPROPRIATE BACKING OF A WELL–GRADED GRAVEL OR GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIP RAP. STONE MUST BE SIZED APPROPRIATELY.

E. FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.

F. FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL–GRADED RIP RAP, OR WITH ANOTHER NON–EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN CUTTING OF THE CHANNEL.

B. EROSION AND SEDIMENTATION CONTROL MEASURES

1. REMOVAL OF SOD, TREES, BUSHES AND OTHER VEGETATION AND SOIL DISTURBANCE WILL BE KEPT TO A MINIMUM WHILE ALLOWING PROPER SITE DEVELOPMENT.
2. GRUBBINGS AND ANY UNUSABLE TOPSOIL SHALL BE STRIPPED AND REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN AN APPROVED MANNER.
3. ANY SUITABLE TOPSOIL WILL BE STRIPPED AND STOCKPILED FOR REUSE IN FINAL GRADING. TOPSOIL WILL BE STOCKPILED IN A MANNER SUCH THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF–SITE SEDIMENT DAMAGE WILL RESULT. IF A STOCKPILE IS NECESSARY, THE SIDE SLOPES OF THE TOPSOIL STOCKPILE WILL NOT EXCEED 2:1. TOPSOIL STOCKPILES WILL BE TEMPORARILY SEEDED WITH AROOSTOOK RYE, ANNUAL OR PERENNIAL RYE GRASS (DEPENDING ON DATE SEEDED) WITHIN 7 DAYS OF FORMATION, OR TEMPORARILY MULCHED IF SEEDING CANNOT BE DONE WITHIN THE RECOMMENDED SEEDING DATES.
4. TEMPORARY DIVERSION BERMS AND DRAINAGE SWALES SHALL BE CONSTRUCTED AS NECESSARY.
5. TEMPORARY STABILIZATION SHALL BE CONDUCTED WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOILS, PRIOR TO ANY RAIN EVENT, AND PRIOR TO ANY WORK SHUT DOWN LASTING MORE THAN ONE DAY. TEMPORARY STABILIZATION INCLUDES SEED, MULCH, OR OTHER NON–ERODABLE COVER. AREAS WITHIN 75 FEET OF WETLANDS SHALL BE TEMPORARILY STABILIZED WITHIN 48 HOURS OR PRIOR TO RAIN EVENT.
6. APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.
7. TEMPORARY SEEDING SPECIFICATIONS. WHERE THE SEED BED HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 4 INCHES BEFORE APPLYING SEED. UNIFORMLY APPLY SEED AT THE RECOMMENDED SEEDING RATES AND DATES, APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.

   RECOMMENDED TEMPORARY SEEDING DATES AND APPLICATION RATES ARE AS FOLLOWS:

   AROOSTOOK RYE: RECOMMENDED SEEDING DATES: 8/15 – 10/1
   APPLICATION RATE: 112 LBS./ACRE

   ANNUAL RYE GRASS: RECOMMENDED SEEDING DATES: 4/1 – 7/1
   APPLICATION RATE: 40 LBS./ACRE

   PERENNIAL RYE GRASS: RECOMMENDED SEEDING DATES: 8/15 – 9/15
   APPLICATION RATE: 40 LBS./ACRE

8. IF THE AREA WILL REMAIN UNWORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO STABILIZATION USING VEGETATION THROUGH PLANTING, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH OR RIP RAP. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS. AMEND AREAS OF DISTURBED SUBSOIL WITH TOP SOIL OR OTHER ORGANIC AMENDMENTS, PROTECT SEEDED AREAS WITH MULCH OR, IF NECESSARY EROSION CONTROL BLANKETS, AND SCHEDULE SODDING, PLANTING, AND SEEDING SO TO AVOID DIE–OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT.
9. PERMANENT SEEDING SPECIFICATION. IF A LANDSCAPE PLAN HAS BEEN PREPARED FOR THE PROJECT, SOIL PREPARATION AND SEEDING SPECIFICATIONS OF THAT PLAN SHALL SUPERSEDE THESE GENERAL PERMANENT SEEDING SPECIFICATIONS. IT IS RECOMMENDED THAT PERMANENT SEEDING BE COMPLETED BETWEEN APRIL 1 AND AUGUST 15 OF EACH YEAR. LATE SEASON SEEDING MAY BE DONE BETWEEN AUGUST 15 AND SEPTEMBER 15. AREAS NOT SEEDED OR WHICH DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1 SHALL BE SEEDED WITH AROOSTOOK RYE OR MULCHED AT RATES PREVIOUSLY SPECIFIED. SEE WINTER CONDITIONS NOTES FOR SEEDING STABILIZATION AFTER NOVEMBER 1.

A. APPLY TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES. MIX TOPSOIL WITH THE SUBSOIL TO A MINIMUM DEPTH OF 6 INCHES.

B. UNIFORMLY APPLY SEED MIXTURE AT THE RECOMMENDED SEEDING RATES AND DATES, APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.

C. THE SEED MIXTURE FOR LAWN AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:
   10 % CREEPING RED FESCUE
   30 % KENTUCKY BLUEGRASS
   60 % PERENNIAL RYE GRASS

D. THE SEED MIXTURE FOR WET AREAS SHALL CONSIST OF SEEDS PROPORTIONED BY WEIGHT AS FOLLOWS:
   50 % REED CANARY GRASS
   25 % RED TOP
   15 % CREEPING RED FESCUE
   10 % PERENNIAL RYE GRASS

10. MULCH ALL AREAS SEEDED SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH.
11. DITCH LININGS, STONE CHECK DAMS, AND RIP RAP INLET AND OUTLET PROTECTION SHALL BE INSTALLED WITHIN 48 HOURS OF COMPLETING THE GRADING OF THAT SECTION OF DITCH OR INSTALLATION OF CULVERT.
12. RIP RAP REQUIRED AT CULVERTS AND STORM DRAIN INLETS AND OUTLETS SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE. STONES SHALL WEIGH FROM 10 LBS. TO 200 LBS. AND 50% OF THE STONES BY VOLUME SHALL EXCEED A UNIT WEIGHT OF APPROXIMATELY 50 LBS.
13. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL PERMANENT SLOPES STEEPER THAN 3:1, IN THE BASE OF DITCHES NOT OTHERWISE PROTECTED, AND ANY DISTURBED AREAS WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE (E.G. WETLANDS AND WATER BODIES). EROSION CONTROL BLANKET SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
14. TEMPORARY CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

C. HOUSEKEEPING

1. SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS ON SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORM WATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
2. GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
3. FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL.
4. DEBRIS AND OTHER MATERIAL. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER, MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
5. TRENCH OR FOUNDATION DE–WATERING. TRENCH DE–WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, MUST BE FILTERED THROUGH A DIRT BAG, HAYBALE CORRAL OR OTHER SILTATION BASIN PRIOR TO DISCHARGE.

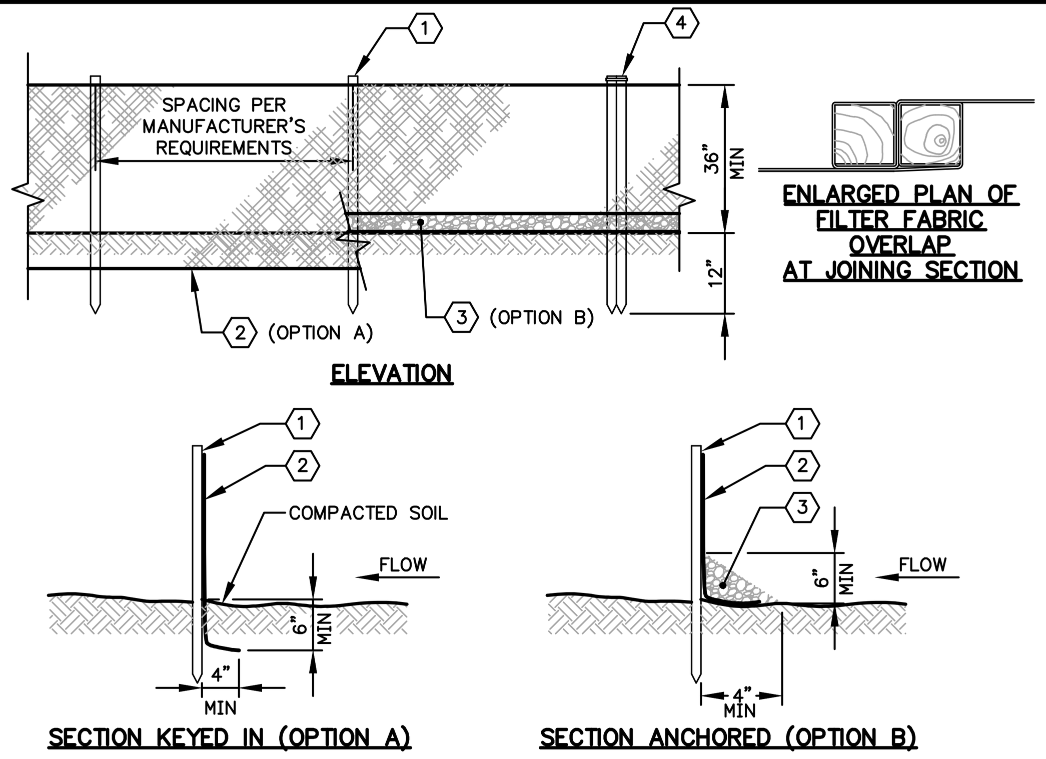
D. INSPECTION AND MAINTENANCE

1. INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION AND STORMWATER CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE A WEEK AS WELL AS BEFORE AND AFTER STORM EVENTS, PRIOR TO COMPLETION OF PERMANENT STABILIZATION. A PERSON WITH KNOWLEDGE OF EROSION AND STORM WATER CONTROLS, INCLUDING THE STANDARDS IN THE MAINE CONSTRUCTION GENERAL PERMIT AND ANY DEP OR MUNICIPAL COMPANION DOCUMENTS, MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
2. AN INSPECTION AND MAINTENANCE LOG MUST BE KEPT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME AND QUALIFICATIONS OF THE PERSON PERFORMING THE INSPECTION, DATE, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES. MAJOR OBSERVATIONS MUST INCLUDE: BMPS THAT NEED TO BE MAINTAINED, LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF THE INSPECTION. FOLLOW–UP TO CORRECT DEFICIENCIES OR ENHANCE CONTROLS MUST ALSO BE INDICATED IN THE LOG AND DATED; INCLUDING WHAT ACTION WAS TAKEN AND WHEN.

E. WINTER CONSTRUCTION EROSION AND SEDIMENTATION CONTROL NOTES

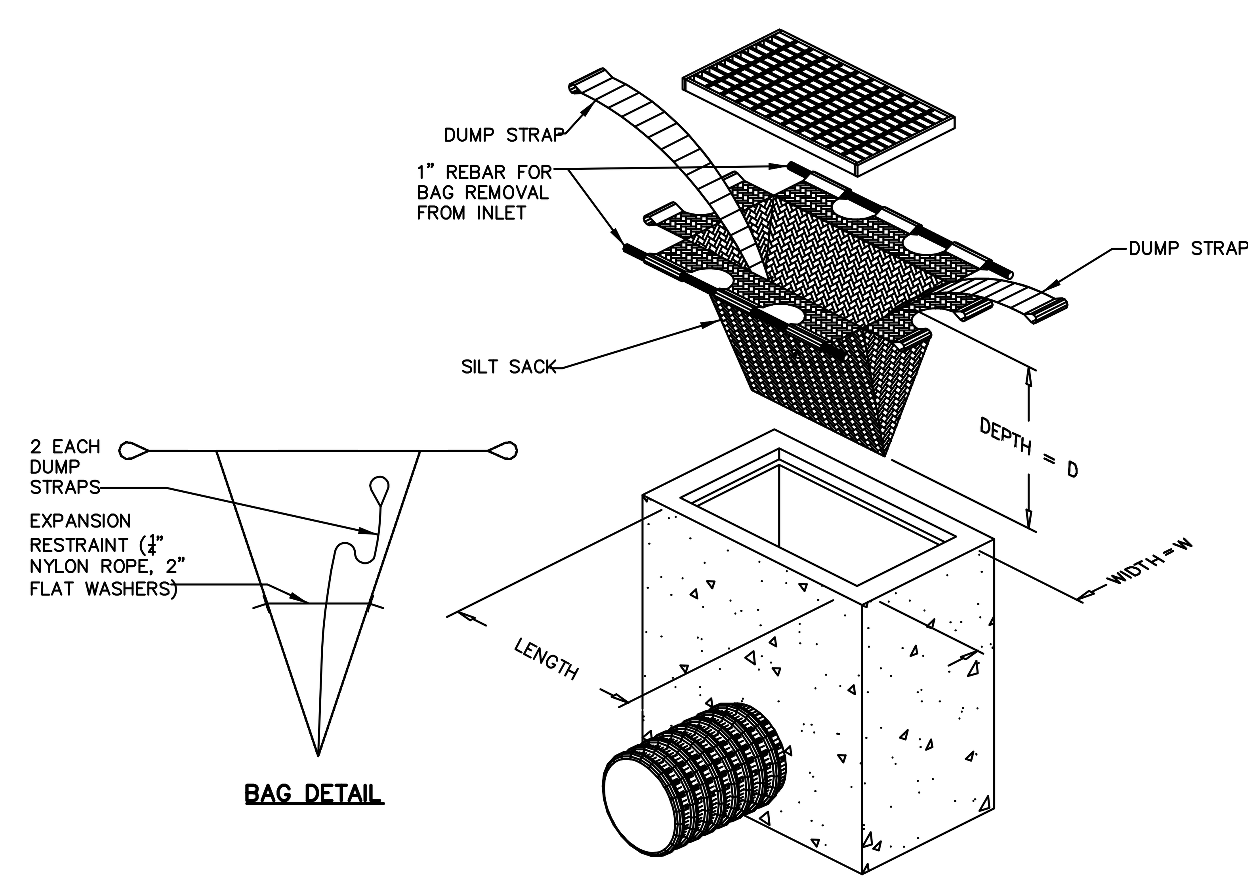
THE WINTER CONSTRUCTION PERIOD TYPICALLY BEGINS IN EARLY NOVEMBER AND ENDS IN MID APRIL. IF A CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER, OR RIPRAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER–WINTER STABILIZATION. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS TO OCCUR DURING THE FOLLOWING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AN AREA SHALL BE CONSIDERED DENUDED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN THE ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED, AND MULCHED. A COVER OF EROSION CONTROL MIX IS THE PREFERRED TEMPORARY MULCH DURING WINTER CONDITIONS.

1. <u>NATURAL RESOURCE PROTECTION</u>: ANY AREAS WITHIN 75 FEET FROM ANY REGULATED NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH AN EROSION CONTROL COVER. DURING WINTER CONSTRUCTION, A DOUBLE ROW OF SEDIMENT BARRIERS (FOR EXAMPLE, SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY REGULATED NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE REGULATED NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.
2. <u>SEDIMENT BARRIERS</u>: DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES OR SILT FENCES.
3. <u>MULCHING</u>: ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE (TWICE THE NORMAL ACCEPTED RATE) AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX MUST BE APPLIED WITH A MINIMUM 4 INCHES THICKNESS. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. SNOW MUST BE REMOVED DOWN TO A ONE–INCH DEPTH PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERTY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED OR ADEQUATELY ANCHORED SO THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACKING OR WOOD CELLULOSE FIBER. THE COVER WILL BE CONSIDERED SUFFICIENT WHEN THE GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL EXPOSED SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORKDAY.
4. <u>SOIL STOCKPILING</u>: STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR–INCH LAYER OF EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STACKING AND RE–ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED WITHIN 100 FEET FROM ANY REGULATED NATURAL RESOURCE.
5. <u>SEEDING</u>: BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOOMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF DORMANT SEEDING IS USED, ALL DISTURBED AREAS SHALL RECEIVE 4 INCHES OF LOAM AND SEED AT AN APPLICATION RATE OF 5 LBS PER 1,000 S.F. ALL AREAS INSUFFICIENTLY VEGETATED (LESS THAN 75%) IN THE SPRING SHALL BE REVEGETATED.
6. <u>OVER–WINTER STABILIZATION OF DITCHES AND CHANNELS</u>: ALL STONE–LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED BY NOVEMBER 1. ALL GRASS–LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. IF A GRASS–LINED DITCH OR CHANNEL IS STABILIZED BY SEPTEMBER 1, THEN EITHER A SOD LINING SHALL BE INSTALLED PRIOR TO OCTOBER 1 OR THE DITCH MUST BE LINED WITH STONE RIPRAP BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE PRIOR TO NOVEMBER 1.
7. <u>OVER–WINTER STABILIZATION OF DISTURBED SLOPES</u>: ALL STONE–COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL SLOPES TO BE VEGETATED MUST BE SEEDED AND MULCHED BY SEPTEMBER 1. ALL AREAS HAVING A GRADE STEEPER THAN 8% SHALL BE CONSIDERED A SLOPE. IF A SLOPE TO BE VEGETATED IS NOT STABILIZED BY SEPTEMBER 1, THEN THE SLOPE SHALL EITHER BE STABILIZED WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS BY OCTOBER 1, SOD BY OCTOBER 1, EROSION CONTROL MIX BY NOVEMBER 1, OR STONE RIPRAP BY NOVEMBER 15. SEE APPLICABLE SECTIONS UNDER EROSION AND SEDIMENTATION CONTROL NOTES FOR PROPER INSTALLATION METHODS.
8. <u>OVER–WINTER STABILIZATION OF DISTURBED SOILS</u>: BY SEPTEMBER 15, ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15% MUST BE SEEDED AND MULCHED. IF THE DISTURBED AREAS ARE NOT STABILIZED BY THIS DATE, THEN THE AREA SHALL EITHER BE STABILIZED WITH TEMPORARY VEGETATION BY OCTOBER 1, SOD BY OCTOBER 1, OR MULCH BY NOVEMBER 15. SEE APPLICABLE SECTIONS UNDER EROSION AND SEDIMENTATION CONTROL NOTES FOR PROPER INSTALLATION METHODS.
9. <u>MAINTENANCE</u>: MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES AND/OR BARE SPOTS. AN ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 85% OF AREAS VEGETATED WITH VIGOROUS GROWTH.



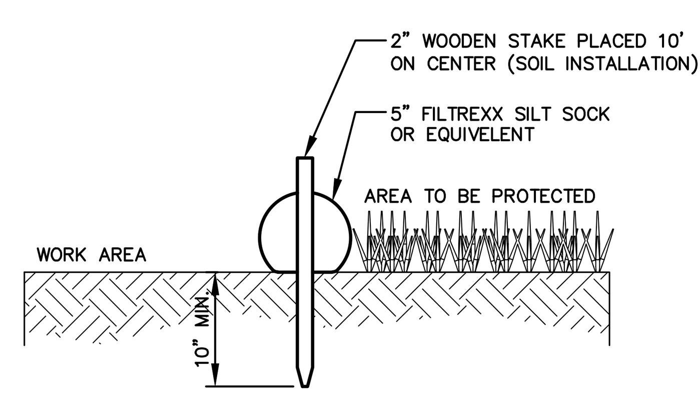
NOTES:
1. 1.25"X1.25" OAK STAKES EMBEDDED A MINIMUM OF 12" INTO THE GROUND.
2. FILTER FABRIC TO BE SEDIMENTATION CONTROL FABRIC MIRAFI 100X OR EQUIVALENT.
3. 1" CRUSHED STONE ANCHORING MATERIAL.
4. OVERLAP AT JOINING SECTION AS SHOWN. A COUPLER CAN BE AN ACCEPTABLE DEVICE USED TO TIE THE OAK STAKES TOGETHER.
5. INSTALLATION/PLACEMENT OF THE PERIMETER SILT FENCE SHALL BE IN ACCORDANCE WITH MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES AND SOIL EROSION & SEDIMENT CONTROL PLAN.

SILT FENCE
NOT TO SCALE



MAINTENANCE SCHEDULE:
1. EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT.
2. IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2–3 WEEKS.
3. THE YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

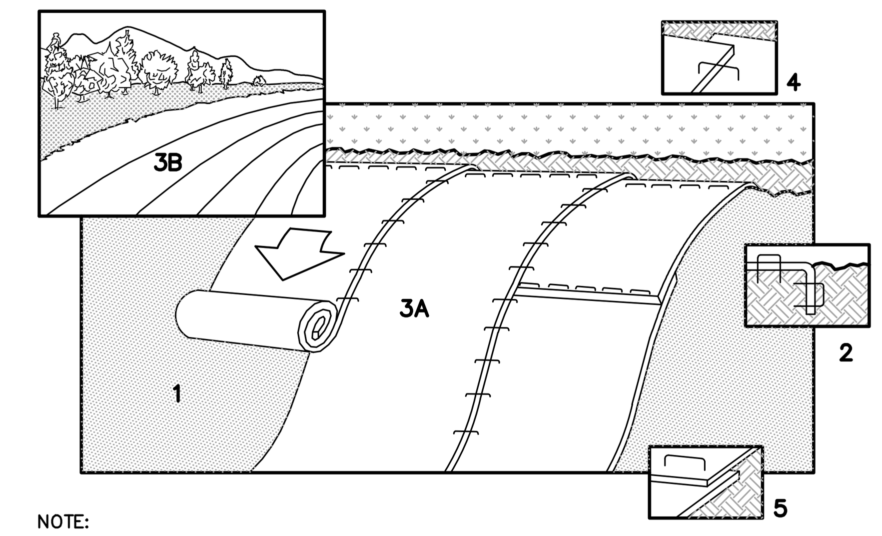
SILTSACK DETAIL
NOT TO SCALE



NOTE:
OVERLAP AT CONNECTIONS MINIMUM OF 12" AND STAKE TOGETHER.

SECTION VIEW

SEDIMENT BARRIER (SILT SOCK)
NOT TO SCALE



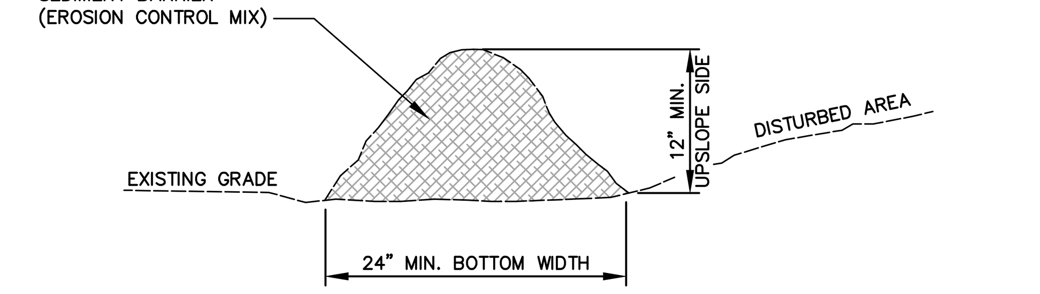
NOTE:

REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS. BLANKET TO BE A BIODEGRADABLE DOUBLE NET STRAW MAT.

INSTALATION STEPS:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

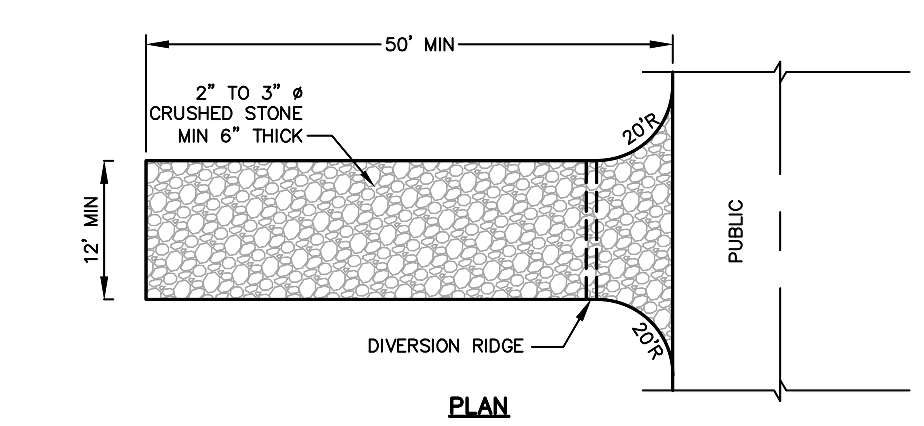
EROSION CONTROL BLANKET (SLOPE INSTALLATION)
NOT TO SCALE



<u>IN ORDER FOR EROSION CONTROL MIX TO BE USED IN LIEU OF SILT FENCE IT MUST MEET THE FOLLOWING STANDARDS:</u>

1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 50 AND 100%, DRY WEIGHT BASIS.
2. PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MINIMUM OF 70%, MAXIMUM OF 85%, PASSING A 0.75" SCREEN.
3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
5. SOLUBLE SALTS CONTENT SHALL BE <4.0 mmhos/cm.
6. THE pH SHOULD FALL BETWEEN 5.0 AND 8.0.
7. THE EROSION CONTROL MIX SHALL CONTAIN A WELL GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH.
8. PLACE BARRIER ALONG A RELATIVELY FLAT CONTOUR. CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES WHERE FINES CAN WASH UNDER THE BARRIER THROUGH GRASS BLADES AND BRANCHES.
9. PLACEMENT OF BARRIER SHOULD BE:
   – AT TOE OF THE SLOPE.
   – ON FROZEN GROUND, BEDROCK, OR ROOTED FORESTED AREAS.
   – AT THE EDGE OF GRAVEL AND AREAS UNDER CONSTRUCTION.
10. BARRIER SHALL NOT BE USED ADJACENT TO WETLANDS.
11. REMOVE SEDIMENT DEPOSITS WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
12. WHEN BARRIER IS DECOMPOSED, CLOGGED WITH SEDIMENT, ERODED, OR INEFFECTIVE, IT MUST BE REPLACED OR REPAIRED. THE BARRIER SHOULD BE RESHAPED AS NECESSARY.

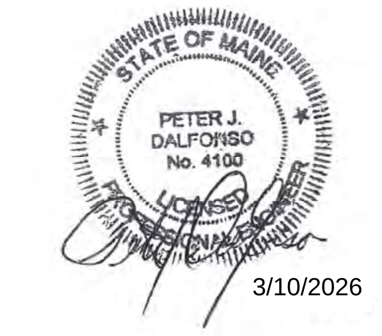
EROSION CONTROL MIX BERM
NOT TO SCALE



NOTES:
1. USE 2" TO 3" ø CRUSHED STONE OR ACCEPTABLE ON–SITE MATERIAL.
2. GEOTEXTILE FILTER (MIRAFI 600X OR APPROVED EQUIVALENT) SHALL BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE.
3. LENGTH – 50' MINIMUM.
4. THICKNESS – NOT LESS THAN 6".
5. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT–OF–WAY INGRESS OR EGRESS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC REPAIR AND TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
7. WHEN COMPLETE, CONTRACTOR TO REMOVE STONE AND GRADE SUBBASE TO MATCH EXISTING OR PROPOSED GRADES. FINAL TREATMENT AS SHOWN ON PLANS OR OTHERWISE DIRECTED.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

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DESIGNED BY: KSJ/PJD
DRAWN BY: DB/JWG
CHECKED BY: PJC
DATE: 3/10/2026
FILE NAME: 4444-0004 DET.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS - PHASE 2
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

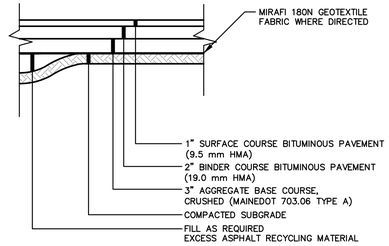
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EROSION & SEDIMENTATION CONTROL NOTES & DETAILS

SHEET NO:

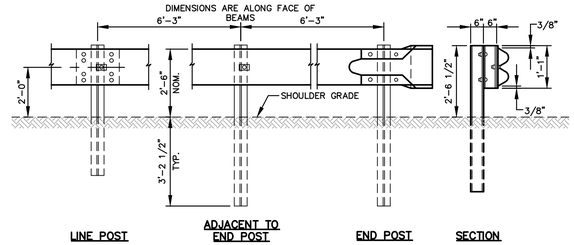
C-501

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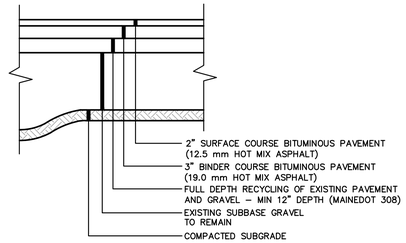
NOTE:
CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 401 AND 403, AS PER THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" LATEST REVISION.

PAVEMENT BUILDUP – DRIVEWAY
NOT TO SCALE



NOTES:
1. INTERMEDIATE POST SPACING SHALL BE 6'-3" UNLESS OTHERWISE SHOWN.
2. POST AND OFFSET BRACKETS SHALL BE 4"x 6" I-BEAM 8.5 OR 9.0 LBS. PER FOOT. LENGTH OF 5'-9" ATTACHED WITH 5/8" DIA. BOLTS WITH HEX NUTS.
3. ALL HOLES IN BEAM TO BE SHOP-PUNCHED PRIOR TO GALVANIZING.
4. RAIL PANELS AND END SECTIONS TO BE 12 GAUGE STEEL.
5. BACK-UP PLATE TO BE PLACED BEHIND RAIL ELEMENTS AT INTERMEDIATE STEEL POSTS (NON-SPLICE POSTS).
6. ALL PARTS SHALL CONFORM TO CURRENT MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
7. WHEN GUARDRAIL IS CONSTRUCTED AT UP TO FOUR FEET FROM THE EDGE OF PAVEMENT, THE GUARDRAIL WILL BE SET FROM THE GRADE AT THE FACE OF RAIL.
8. END SECTIONS TO BE IN ACCORDANCE WITH CURRENT MAINE DEPARTMENT OF TRANSPORTATION STANDARDS.
9. GUARDRAIL SET ON A RADIUS OF 150 FEET OR LESS TO BE CIRCULAR.

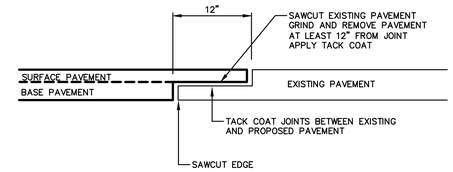
BEAM GUARDRAIL
NOT TO SCALE



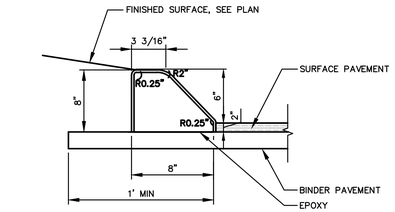
NOTE:
CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 308, 401, AND 403, AS PER THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" LATEST REVISION.

PAVEMENT BUILDUP – FULL DEPTH RECYCLING
NOT TO SCALE

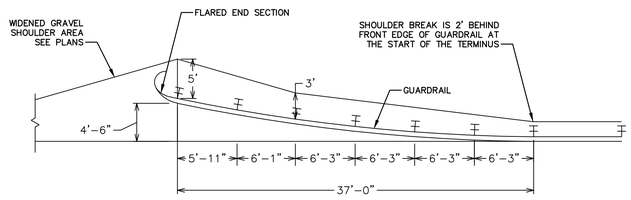
NOTE:
CONSTRUCTION REQUIREMENTS FOR THE BITUMINOUS TACK COAT SHALL BE IN ACCORDANCE WITH MAINE DOT SECTIONS 409.01 THROUGH 409.07.



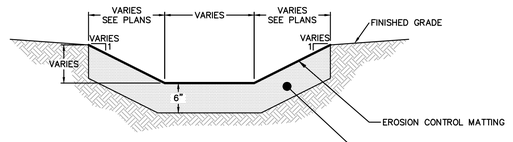
BUTT JOINT DETAIL
NOT TO SCALE



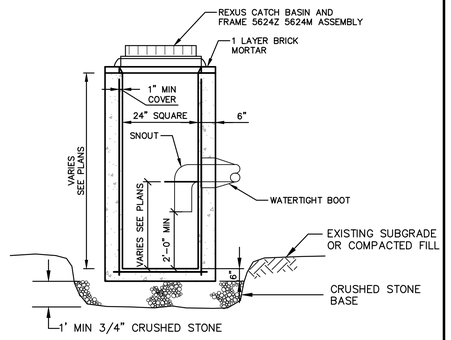
SLIPFORM CONCRETE CURB (SLOPED)
NOT TO SCALE



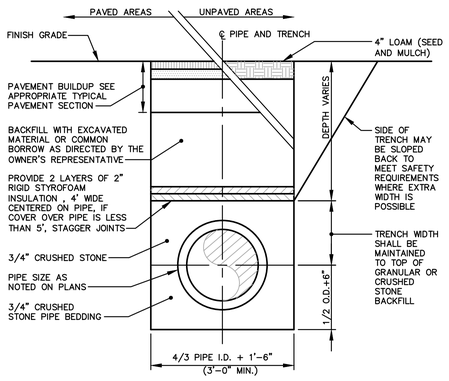
GUARDRAIL TERMINAL ALIGNMENT DETAIL
NOT TO SCALE



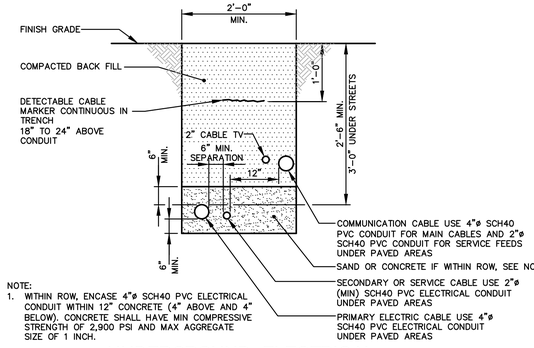
GRASS SWALE
NOT TO SCALE



CATCH BASIN – TYPE F
NOT TO SCALE

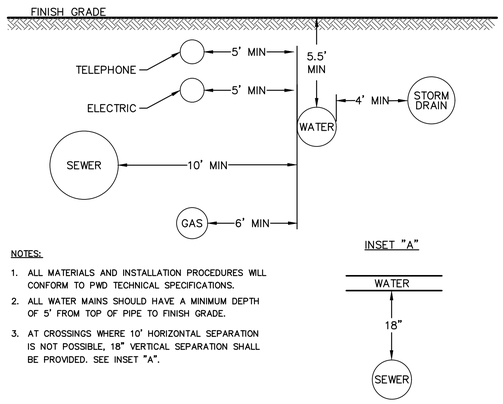


TYPICAL TRENCH SECTION
NOT TO SCALE



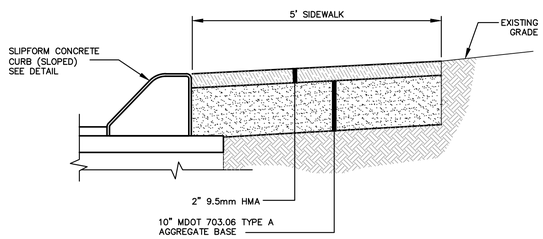
NOTE:
1. WITHIN ROW, ENCASE 4"ø SCH40 PVC ELECTRICAL CONDUIT WITHIN 12" CONCRETE (4" ABOVE AND 4" BELOW). CONCRETE SHALL HAVE MIN COMPRESSIVE STRENGTH OF 2,900 PSI AND MAX AGGREGATE SIZE OF 1 INCH.

UNDERGROUND ELECTRICAL & TELEPHONE CONDUIT
NOT TO SCALE



NOTES:
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO PWD TECHNICAL SPECIFICATIONS.
2. ALL WATER MAINS SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. AT CROSSINGS WHERE 10' HORIZONTAL SEPARATION IS NOT POSSIBLE, 18" VERTICAL SEPARATION SHALL BE PROVIDED. SEE INSET "A".

WATER SERVICE SEPARATION DETAIL
NOT TO SCALE



NOTES:
AGGREGATE TO BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 AT ±2% OF OPTIMUM MOISTURE.

CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", LATEST REVISION.

BITUMINOUS SIDEWALK
NOT TO SCALE

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STATE OF MAINE
PETER J. DALFONSO
No. 4100
REGISTERED PROFESSIONAL ENGINEER
3/10/2026

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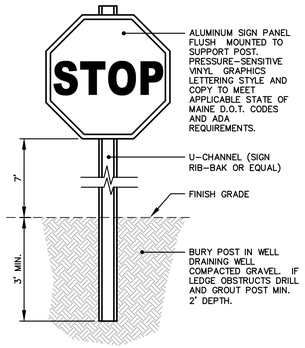
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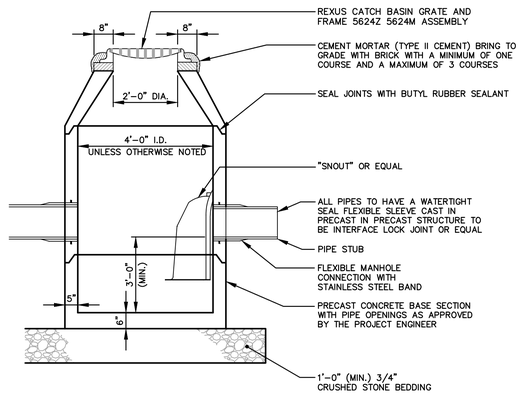
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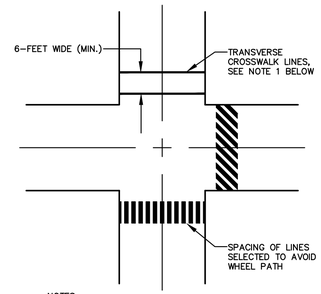
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STOP SIGN
NOT TO SCALE

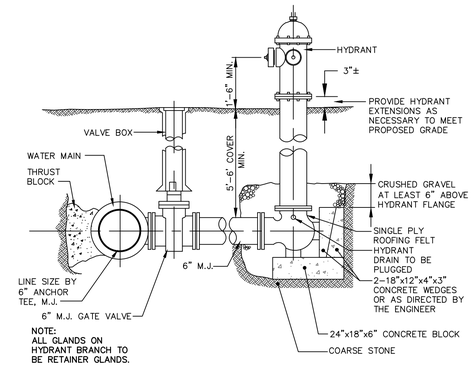


CATCH BASIN – CONCENTRIC CONE
NOT TO SCALE



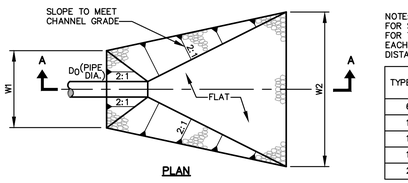
NOTES:
1. TRANSVERSE CROSSWALK LINE SHALL NOT BE LESS THAN 6-INCHES OR GREATER THAN 24-INCHES.
2. WHEN DIAGONAL OR LONGITUDINAL LINES ARE USED TO MARK A CROSSWALK, THE TRANSVERSE CROSSWALK LINE MAY BE OMITTED.
3. DIAGONAL OR LONGITUDINAL LINES SHALL NOT BE LESS THAT 12-INCHES WIDE OR GREATER THAN 24-INCHES WIDE AND SHOULD BE SPACED 12 TO 24 INCHES APART. SPACING DESIGN SHOULD AVOID THE WHEEL PATHS.
4. AT NONINTERSECTION PEDESTRIAN CROSSINGS, WARNING SIGNS SHALL BE INSTALLED WITH ADEQUATE VISIBILITY.

CROSSWALK MARKINGS DETAIL
NOT TO SCALE



NOTE:
ALL GLANDS ON HYDRANT BRANCH TO BE RETAINER GLANDS.

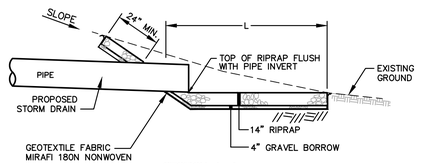
HYDRANT ASSEMBLY DETAIL
NOT TO SCALE



PLAN

NOTE:
FOR SINGLE PIPES, W1= 3D0
FOR TWIN PIPES, W1= 2D0 FOR EACH PIPE + THE CLEAR DISTANCE BETWEEN PIPES.

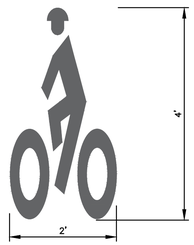
TYPE ID.	APRON DIM. (FEET)		D50 RIPRAP SIZE (IN)	DEPTH (IN)
	W2	L		
6"	7	6	6	10
12"	12	10	6	14
15"	12	10	6	14
18"	12	10	6	14
24"	14	12	6	14



SECTION A-A

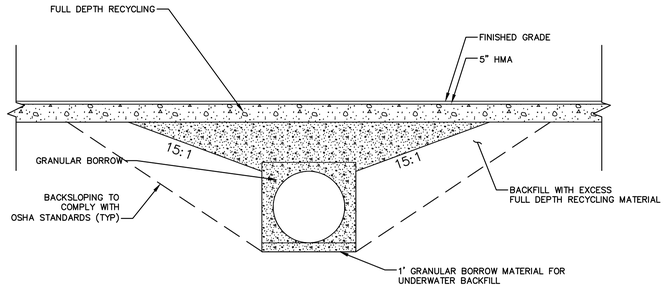
NOTES:
1. RIPRAP SIZE D50 = 6"
2. IN DEFINED CHANNELS, APRON SHALL EXTEND FULL WIDTH OF BOTTOM AND ONE FOOT ABOVE MAX. TAILWATER OR UP TO BANK FULL, WHICHEVER IS LESS.

RIPRAP INLET/OUTLET PROTECTION
NOT TO SCALE

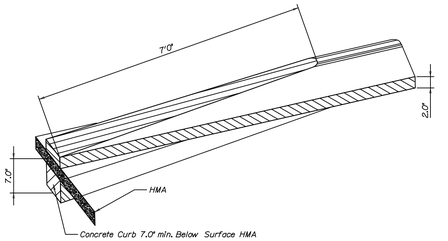


BIKE LANE SYMBOL
NOT TO SCALE

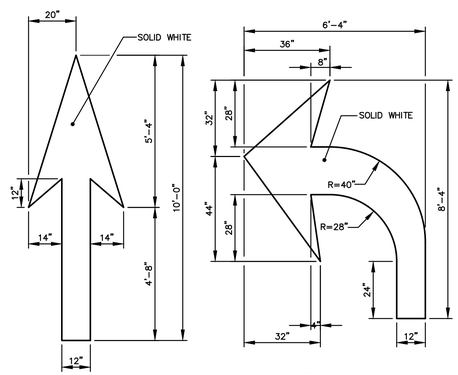
CULVERT NOTES:
1. THE CULVERT SHALL BE BEDDED ON A ONE FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL.
2. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET.



CROSS CULVERT TAPERED EXCAVATION DETAIL
NOT TO SCALE



TIPDOWN DETAIL
NOT TO SCALE



NOTE:
MIRROR FOR RIGHT TURN ARROW.

STRAIGHT ARROW
NOT TO SCALE

LEFT TURN ARROW
NOT TO SCALE

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SHEET NO:

C-503

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