

50% PRELIMINARY DESIGN DRAWINGS

FOR

SPURWINK ROAD IMPROVEMENTS SCARBOROUGH, MAINE

FEBRUARY 2022

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 COV01.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

COVER
SHEET

SHEET NO:

C-001

PROFESSIONAL CONTACTS:

APPLICANT :
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, ME 04074
(207) 730-4401
CONTACT: MIKE SHAW, DIRECTOR

ENGINEERING & DESIGN:
ST.GERMAIN
846 MAIN STREET
WESTBROOK, ME 04092
(207) 591-7000
CONTACT: PATRICK GERE, PE#14406

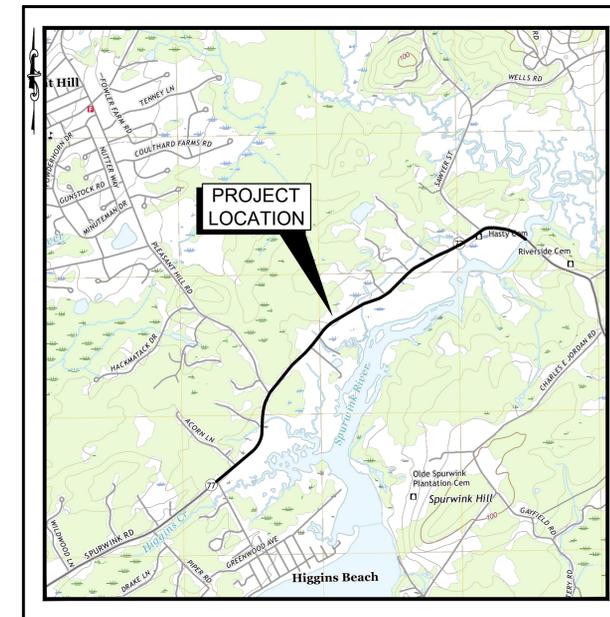
SURVEYOR:
NORTHERN SURVEY ENGINEERING, LLC
41 CHURCH ROAD
BRUNSWICK, ME 04011
(207) 440-3487
CONTACT: SEAN PIERCE, PLS#2517

GEOTECHNICAL ENGINEER:
SUMMIT GEOENGINEERING SERVICES
173 PLEASANT STREET
ROCKLAND, ME 04841
(207) 446-0808
CONTACT: ERIKA STEWART, PE#15008

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

DRAWING LIST:

- C-001 COVER SHEET
- C-002 GENERAL NOTES & LEGEND
- BOUNDARY & EXISTING CONDITIONS SURVEY
- C-201 SPURWINK ROAD PLAN & PROFILE STA 0+00 TO STA 7+00
- C-202 SPURWINK ROAD PLAN & PROFILE STA 7+00 TO STA 14+00
- C-203 SPURWINK ROAD PLAN & PROFILE STA 14+00 TO STA 21+00
- C-204 SPURWINK ROAD PLAN & PROFILE STA 21+00 TO STA 28+00
- C-205 SPURWINK ROAD PLAN & PROFILE STA 28+00 TO STA 35+00
- C-206 SPURWINK ROAD PLAN & PROFILE STA 35+00 TO STA 42+00
- C-207 SPURWINK ROAD PLAN & PROFILE STA 42+00 TO STA 49+00
- C-208 SPURWINK ROAD PLAN & PROFILE STA 49+00 TO STA 56+00
- C-209 SPURWINK ROAD PLAN & PROFILE STA 56+00 TO STA 63+00
- C-210 SPURWINK ROAD PLAN & PROFILE STA 63+00 TO STA 70+00
- C-211 SPURWINK ROAD PLAN & PROFILE STA 70+00 TO STA 77+00
- C-212 SPURWINK ROAD PLAN & PROFILE STA 77+00 TO STA 84+00
- C-213 SPURWINK ROAD PLAN & PROFILE STA 84+00 TO STA 91+00
- C-214 SPURWINK ROAD PLAN & PROFILE STA 91+00 TO STA 98+00
- C-215 SPURWINK ROAD PLAN & PROFILE STA 98+00 TO STA 102+00
- C-301-312 SPURWINK ROAD CROSS SECTIONS
- C-401 OCEAN AVENUE INTERSECTION PLAN
- C-402 PLEASANT HILL ROAD INTERSECTION PLAN
- C-403 SAWYER STREET INTERSECTION PLAN
- 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



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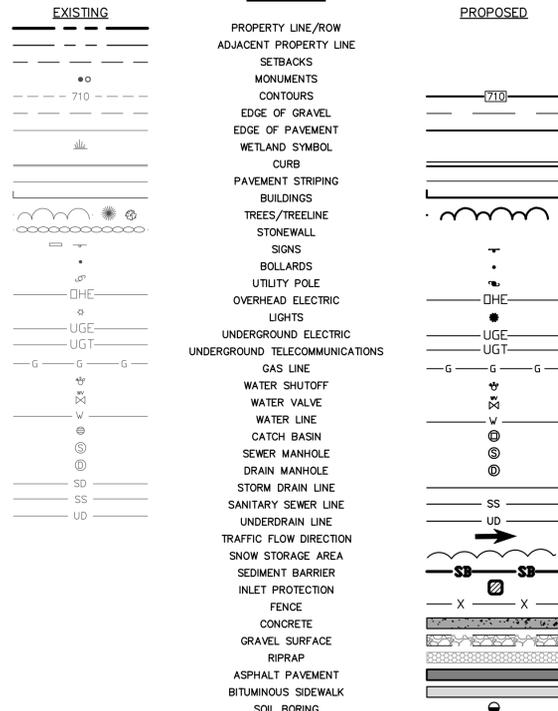
GENERAL NOTES:

- SITE AND TOPOGRAPHIC DATA PROVIDED BY NORTHERN SURVEY ENGINEERING, LLC OF BRUNSWICK, MAINE AS A RESULT OF A FIELD SURVEY CONDUCTED IN AUGUST AND SEPTEMBER 2021. TOPOGRAPHIC DATA ADJACENT TO THE OCEAN AVENUE INTERSECTION IS SUPPLEMENTED WITH NOAA DIGITAL COAST DATA ACCESS VIEWER CUSTOM PROCESSING OF "2018 USACE NCMPTOPBATHY LIDAR: EAST COAST (CT,MA,ME,NC,NH,RI,SC)."
- 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.
- 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.
- 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.
- CLEAN AND/OR FLUSH ALL MANHOLES, CATCH BASINS, AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED.
- 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.
- 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.
- 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.
- 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.
- EXISTING FACILITIES (I.E., TREES, POLES, LIGHT POSTS, CATCH BASINS, ETC) SHALL BE AND 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.
- ALL TREES NOT NOTED TO BE REMOVED OR RELOCATED SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION.
- 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.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN A TOWN STREET OPENING PERMIT BEFORE BEGINNING CONSTRUCTION.
- 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.
- 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.
- FIELD VERIFY UTILITY ELEVATIONS PRIOR TO ORDERING CATCH BASIN AND MANHOLE STRUCTURES. NOTIFY ENGINEER OF ANY CONFLICTS.
- CONTACT TOWN OF SCARBOROUGH ENGINEER PRIOR TO CUTTING ROOTS, TRIMMING BRANCHES, OR DISTURBING TREES THAT HAVE NOT BEEN NOTED FOR REMOVAL ON THE PLANS.
- PROVIDE 4-INCHES OF LOAM AND SEED IN ALL LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS, UNLESS OTHERWISE NOTED AS SOD.
- MUNICIPAL FIRE ALARM AND DATA CABLES ARE LOCATED ABOVEGROUND ATTACHED TO THE UTILITY POLES AND SHALL BE PROTECTED.
- 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.

ABBREVIATIONS:

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

LEGEND



ALIGNMENT LINE DATA			
LINE #	LENGTH	BEARING	ALIGNMENT NAME
L1	441.92'	N51°19'06"E	Spurwink Road
L2	727.71'	N49°09'26"E	Spurwink Road
L3	395.16'	N2°50'47"E	Spurwink Road
L4	80.46'	N40°36'30"E	Spurwink Road
L5	206.74'	N36°26'06"E	Spurwink Road
L6	259.07'	N48°06'58"E	Spurwink Road
L7	492.75'	N38°02'28"E	Spurwink Road
L8	774.45'	N59°22'58"E	Spurwink Road
L9	252.05'	N70°56'27"E	Spurwink Road
L10	478.39'	N45°07'34"E	Spurwink Road
L11	439.71'	N61°48'34"E	Spurwink Road
L12	250.77'	N65°55'39"E	Spurwink Road
L13	577.62'	N60°11'32"E	Spurwink Road
L14	83.33'	N50°57'15"E	Spurwink Road
L15	200.00'	S28°25'47"E	Ocean Avenue
L16	80.82'	S44°54'19"E	Pleasant Hill Road
L17	112.13'	S51°59'14"E	Sawyer Street

ALIGNMENT CURVE DATA				
CURVE #	RADIUS	LENGTH	DELTA	ALIGNMENT NAME
C1	1500.00'	56.57'	2°09'40"	Spurwink Road
C2	600.00'	484.97'	46°18'39"	Spurwink Road
C3	1100.00'	724.98'	37°45'43"	Spurwink Road
C4	2000.00'	145.68'	4°10'24"	Spurwink Road
C5	2000.00'	407.74'	11°40'51"	Spurwink Road
C6	1350.00'	237.39'	10°04'30"	Spurwink Road
C7	700.00'	260.74'	21°20'30"	Spurwink Road
C8	400.00'	80.69'	11°33'29"	Spurwink Road
C9	1200.00'	540.66'	25°48'52"	Spurwink Road
C10	1000.00'	291.18'	16°41'00"	Spurwink Road
C11	2000.00'	143.74'	4°07'04"	Spurwink Road
C12	600.00'	60.06'	5°44'07"	Spurwink Road
C13	800.00'	128.99'	9°14'17"	Spurwink Road
C14	400.00'	296.36'	42°27'01"	Spurwink Road
C15	2619.64'	279.59'	6°06'54"	Spurwink Road
C16	1000.00'	344.54'	19°44'26"	Spurwink Road
C17	1432.39'	223.64'	8°56'44"	Spurwink Road
C18	500.00'	8.52'	0°58'35"	Pleasant Hill Road

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SPURWINK ROAD
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SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

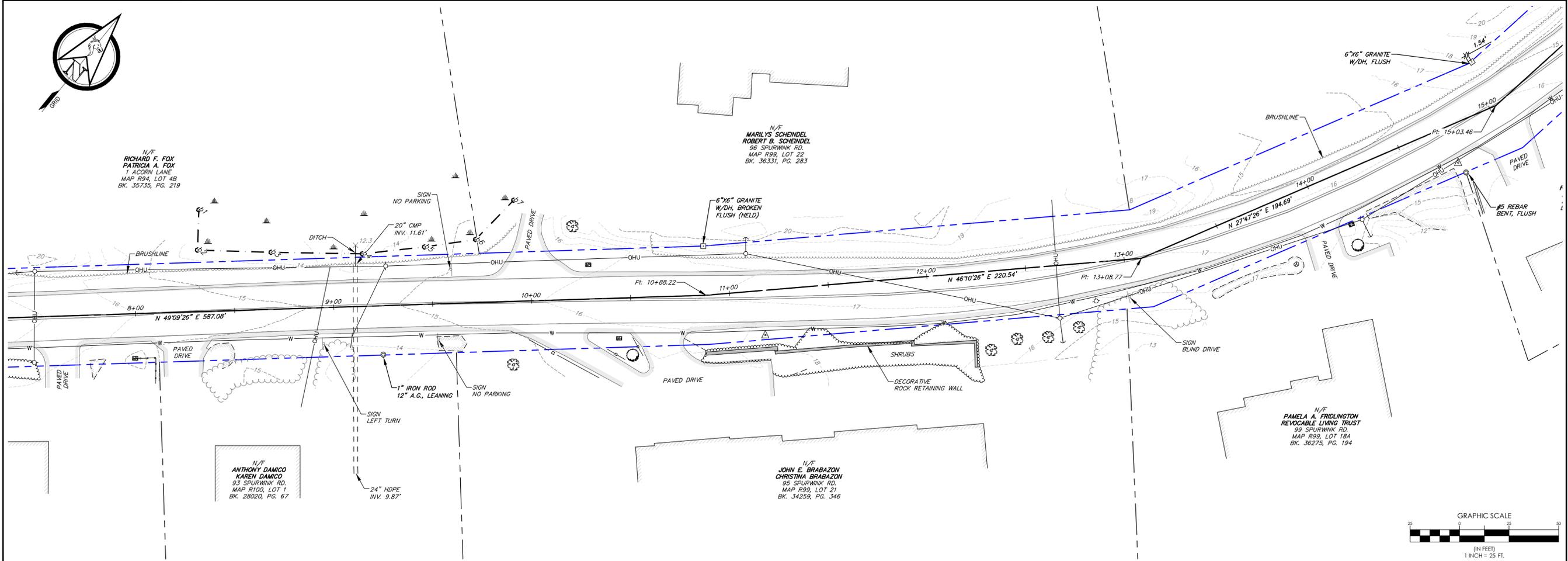
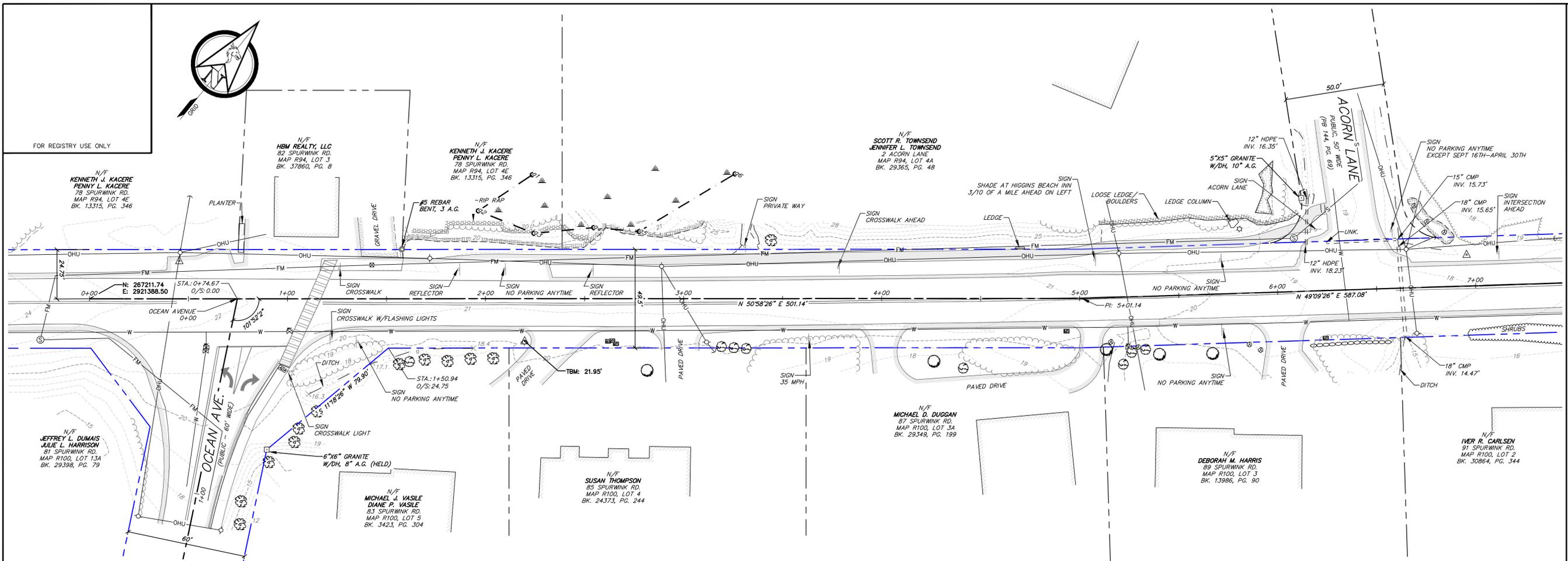
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GENERAL
NOTES &
LEGEND

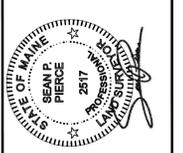
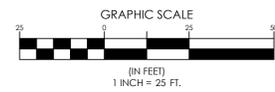
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C-002





FOR REGISTRY USE ONLY



DATE:	STATUS:
REVISION:	DESCRIPTION:

NORSE
 NORTHERN SURVEY ENGINEERING
 207.440.3487
 41 Church Road, Westbrook, Maine 04091
 www.northernsurveyengineering.com

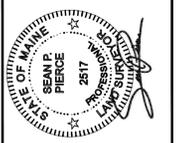
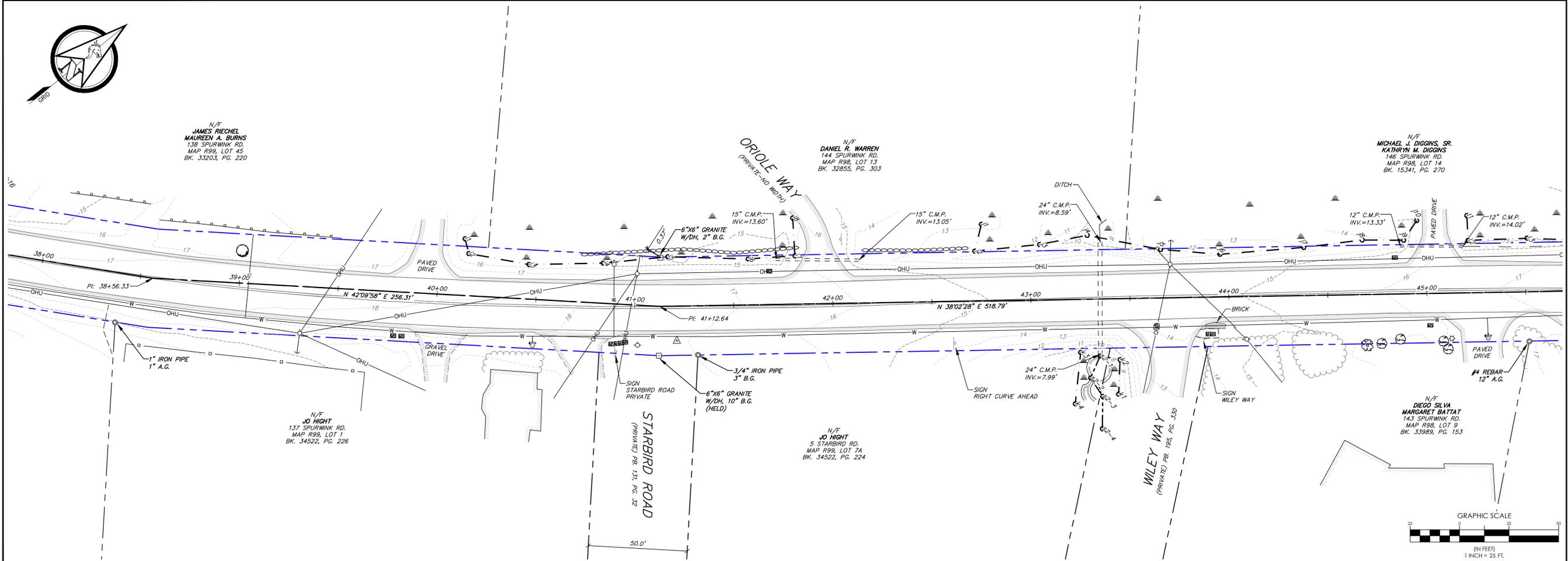
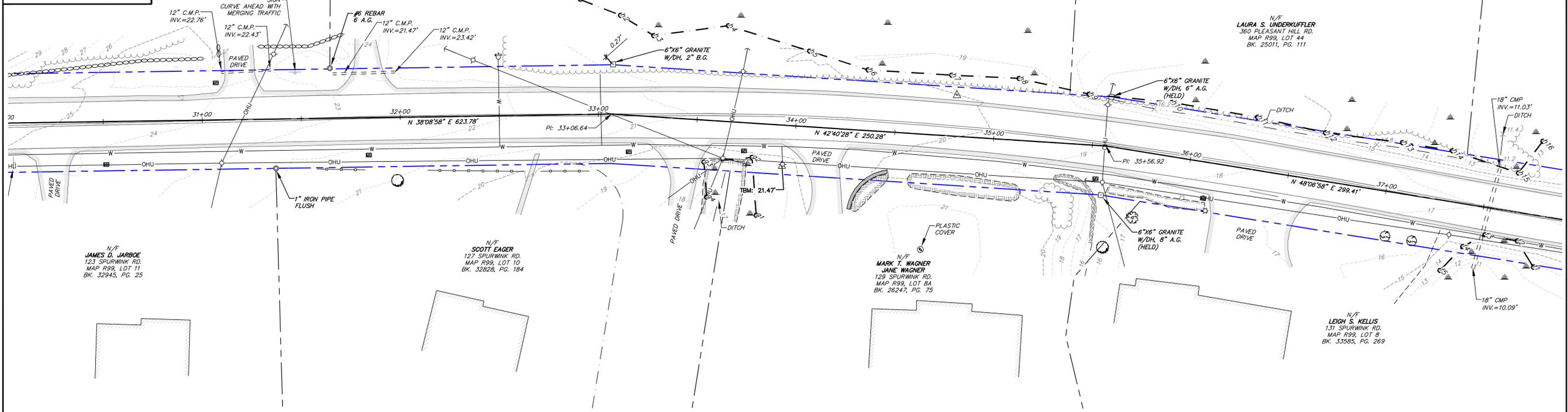
RIGHT OF WAY RECORD:
 CUMBERLAND COUNTY COMMISSIONER
 VOL. 24D, PG. 1349
 VOL. 25D, PG. 1498

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

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



FOR REGISTRY USE ONLY



SEAN P. PIERCE, PLS 2517

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

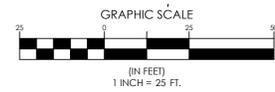


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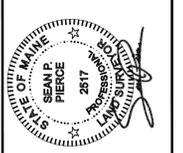
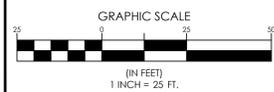
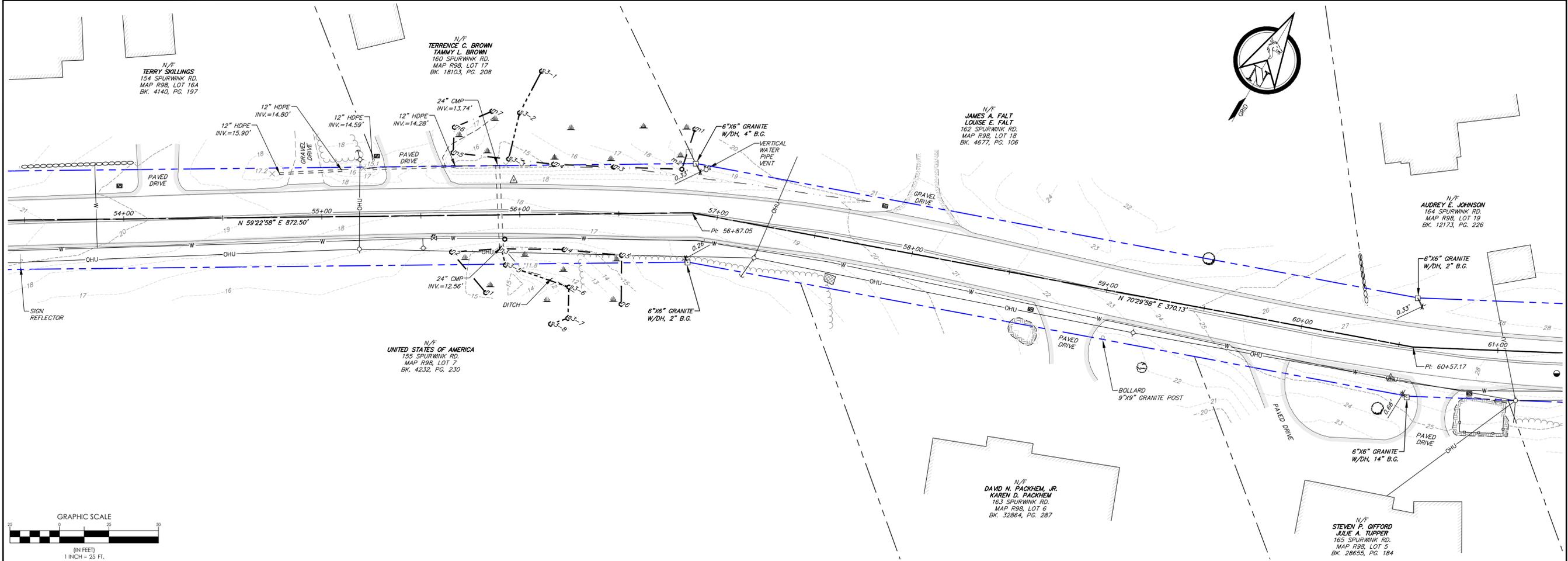
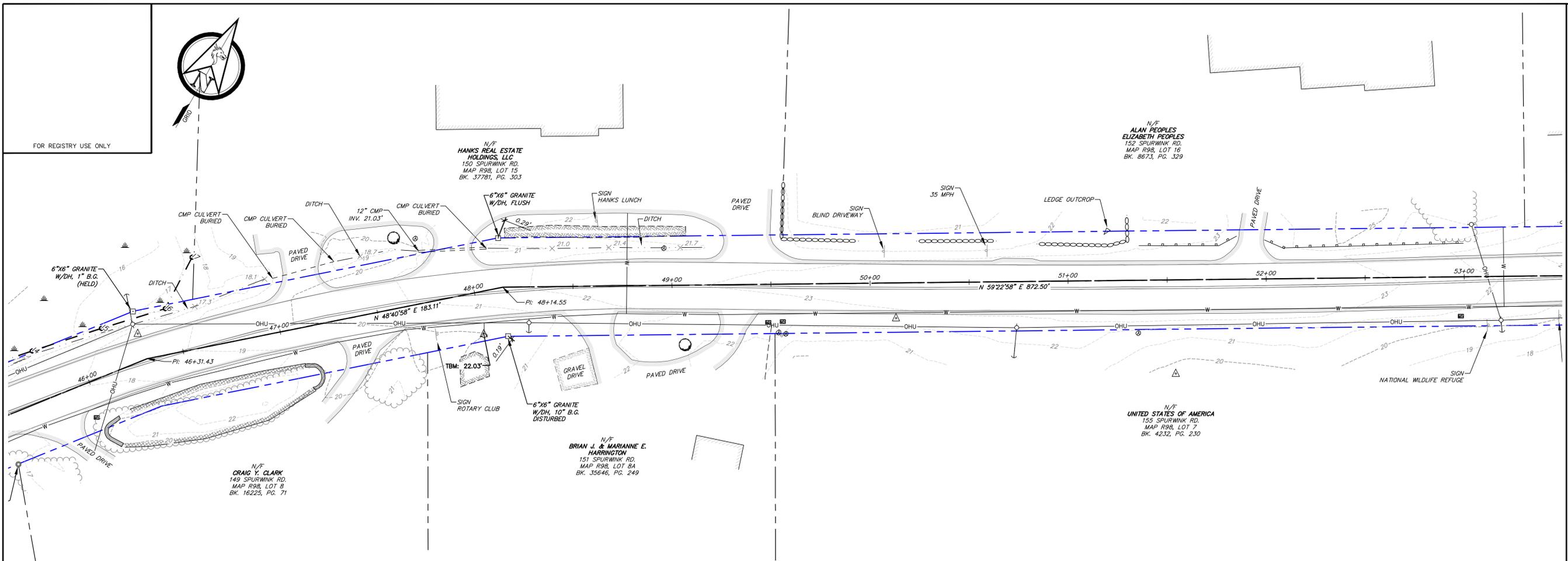
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SHEET 4 OF 8



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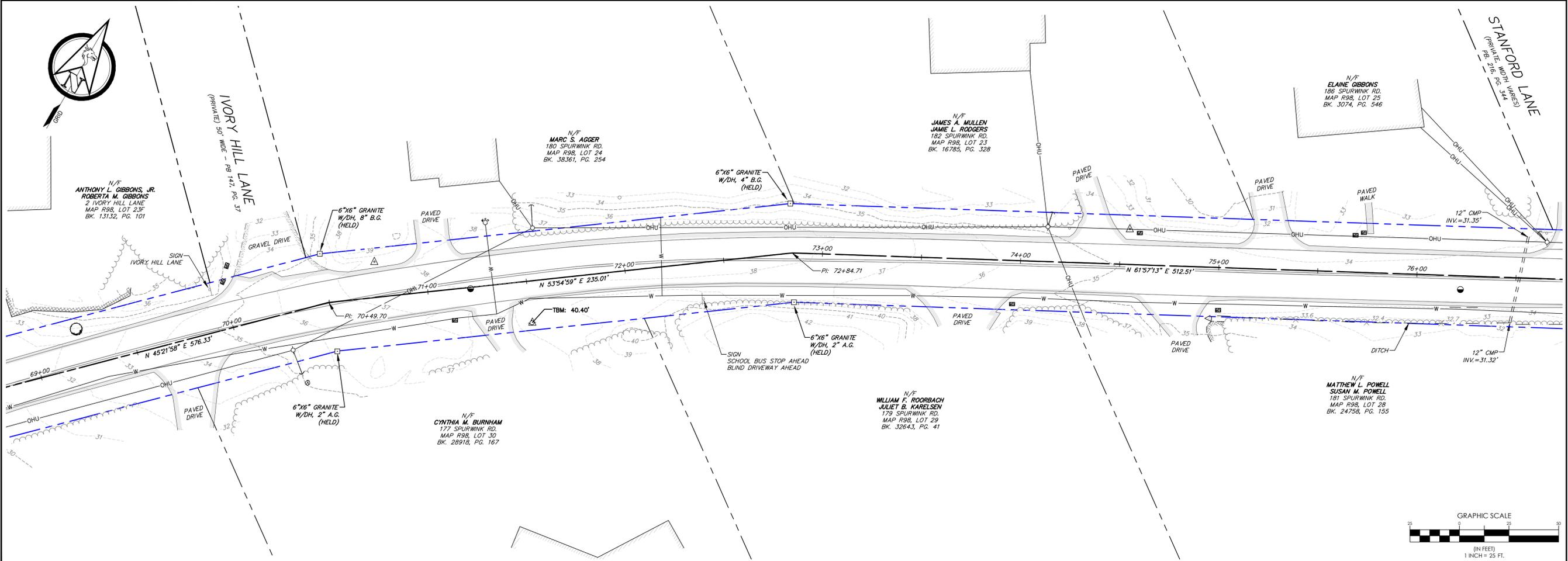
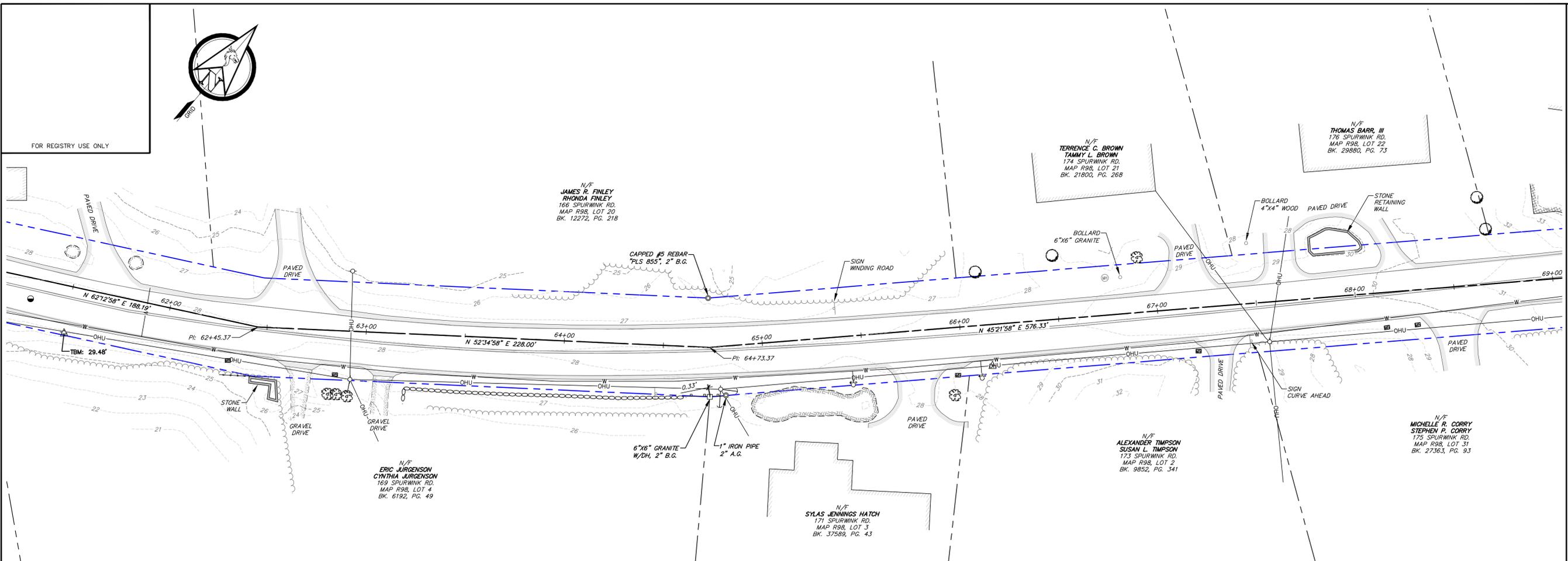
NORSE
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207.440.5487
41 Church Road, Westbrook, Maine 04091
www.northsurveyengineering.com

BOUNDARY & EXISTING CONDITIONS SURVEY
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SHEET 5 OF 8

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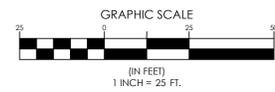
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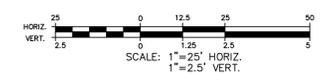
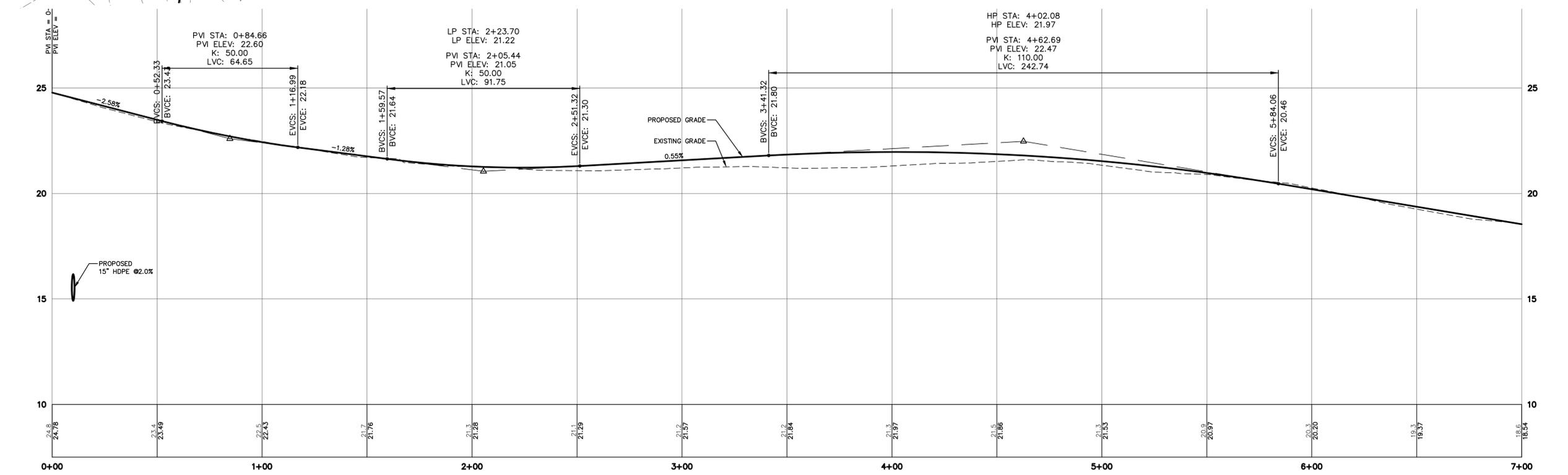
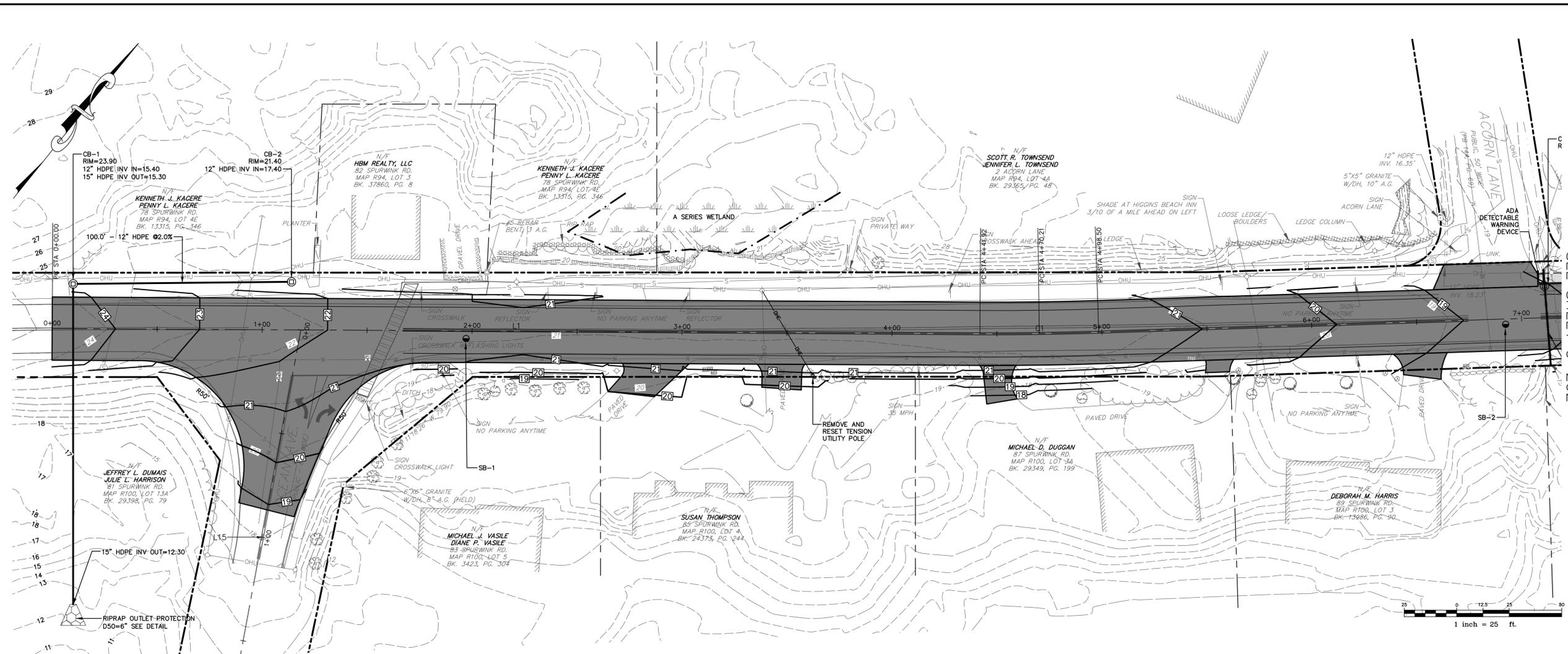
**SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE**

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 0+00 TO
STA 7+00**

SHEET NO:

C-201



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:41:50 PM

50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

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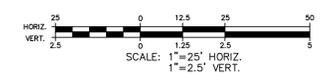
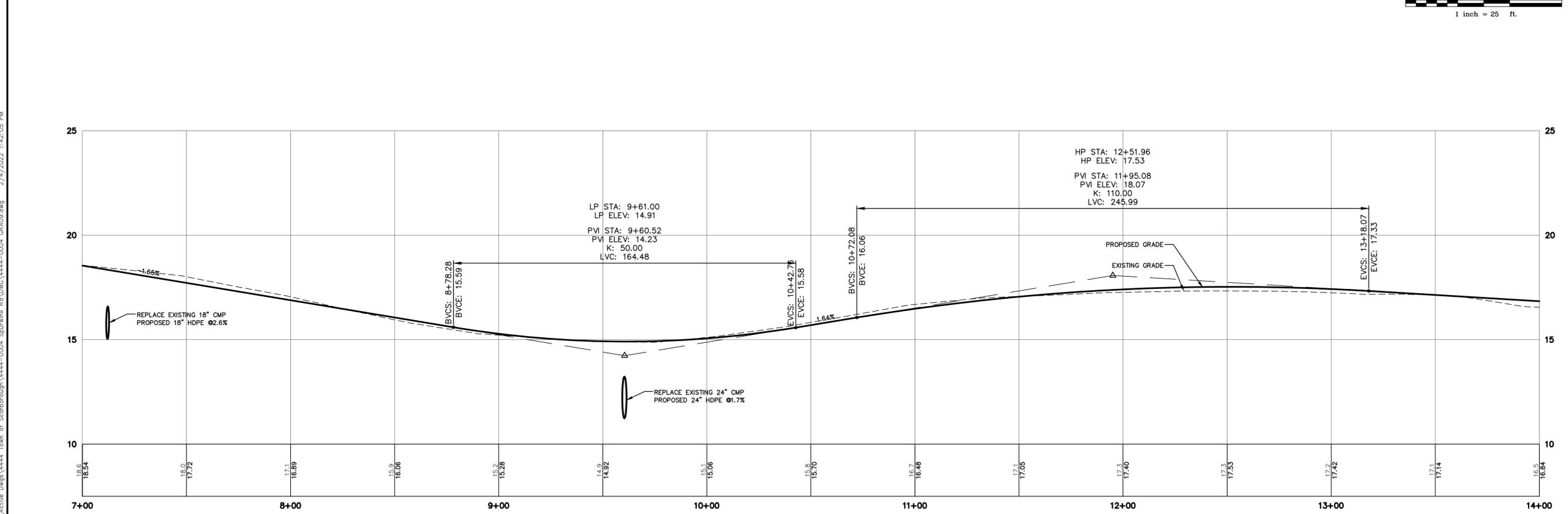
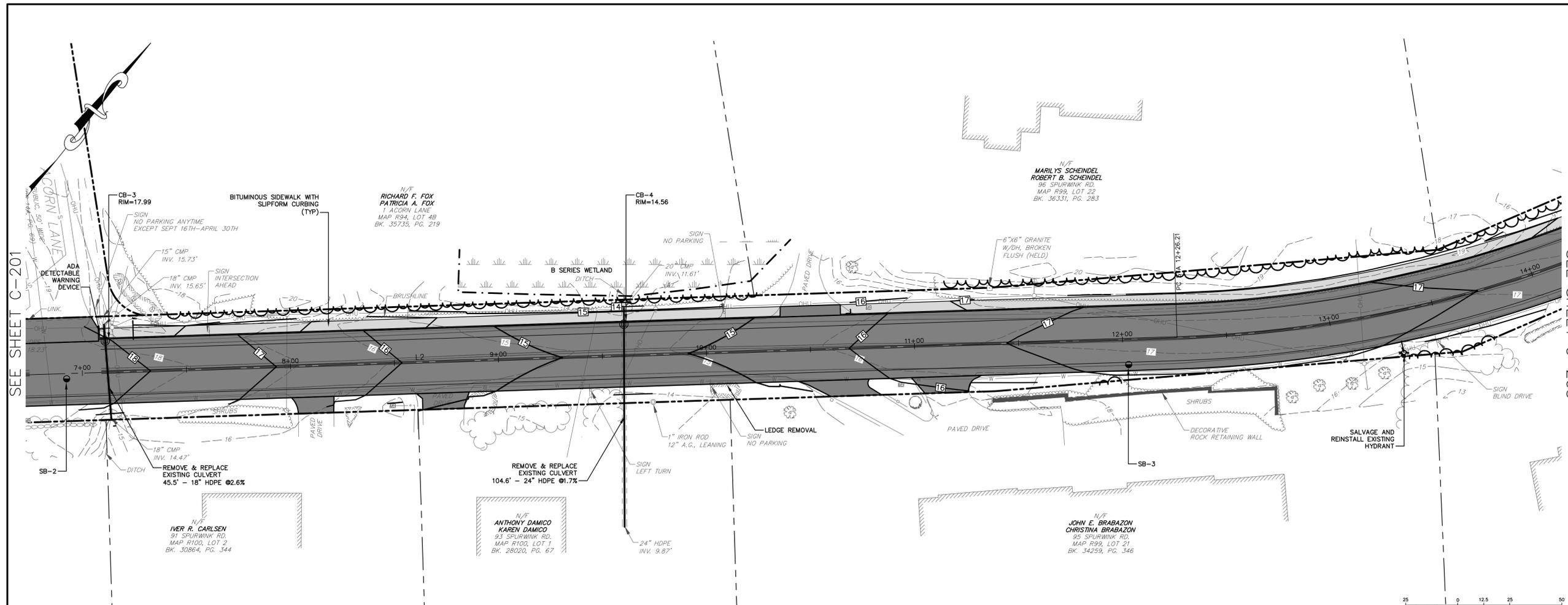
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**SPURWINK ROAD
PLAN & PROFILE
STA 7+00 TO
STA 14+00**

SHEET NO:
C-202



M:_Code Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:42:05 PM

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FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

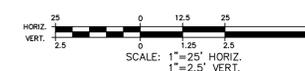
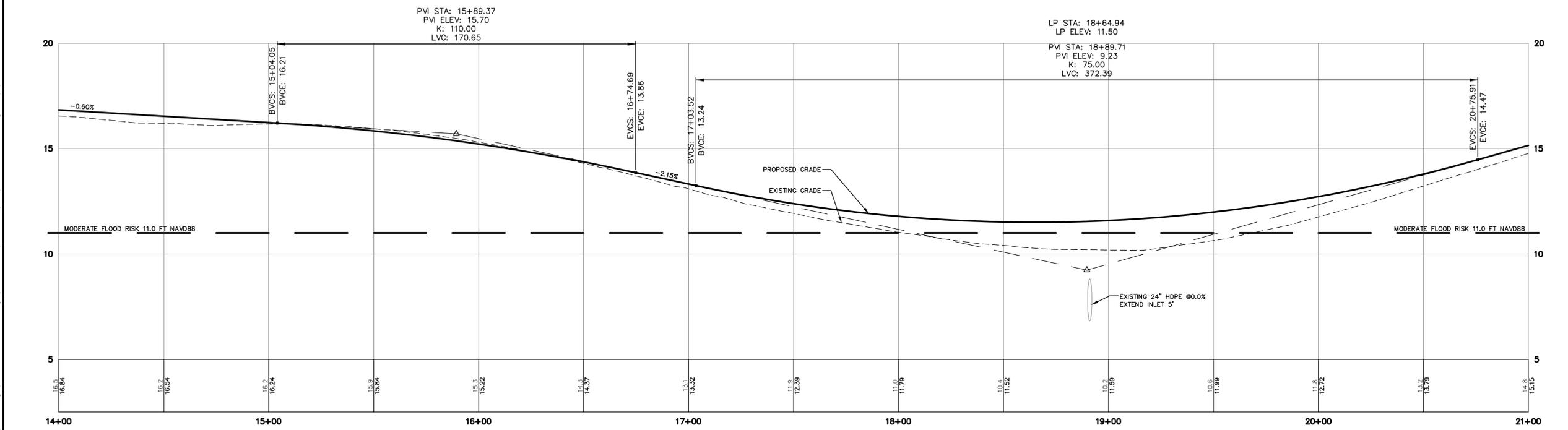
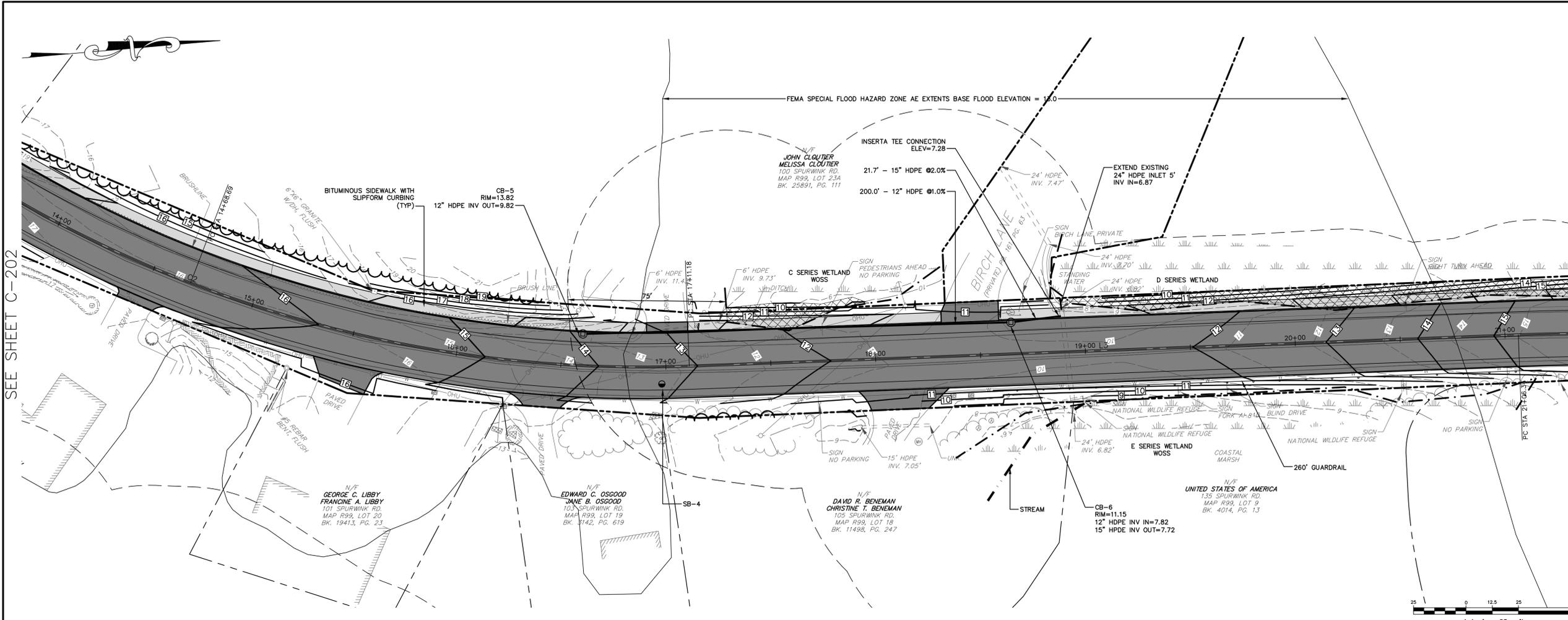
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 14+00 TO
STA 21+00**

SHEET NO:

C-203



SEE SHEET C-202

SEE SHEET C-204

DRAFT

SEE SHEET C-205

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

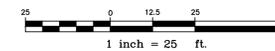
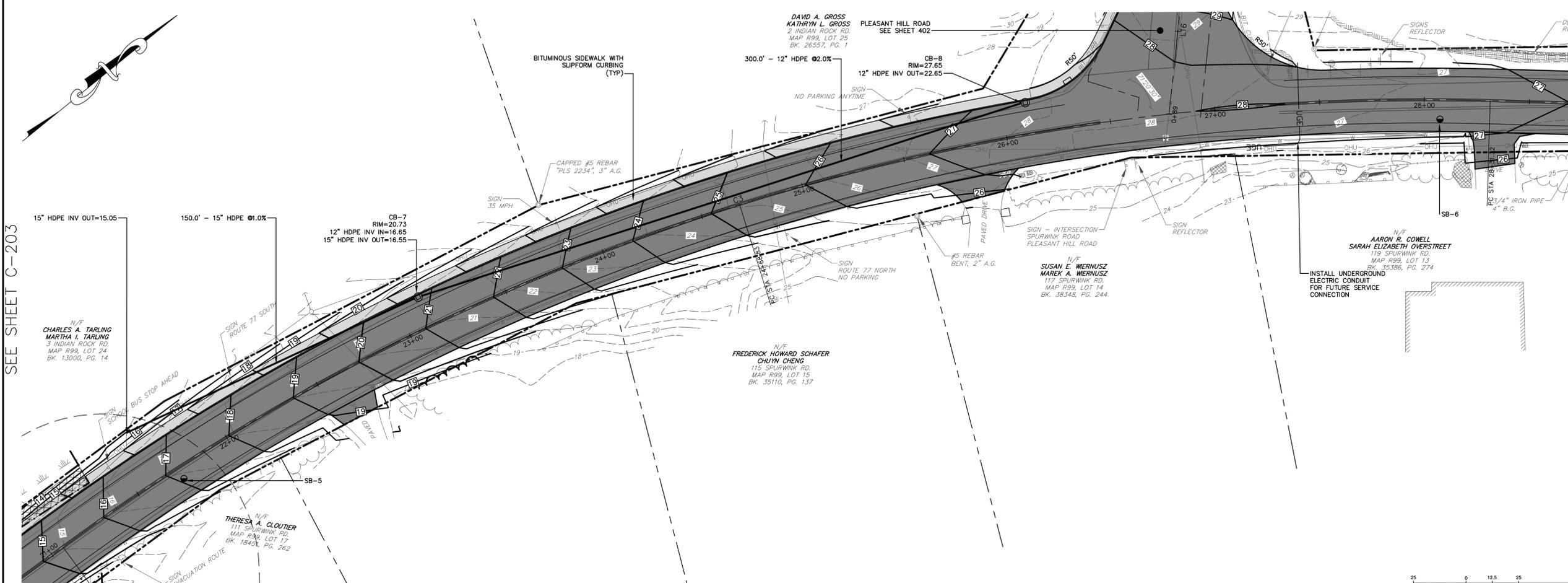
SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 21+00 TO
STA 28+00**

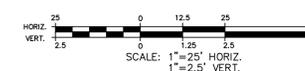
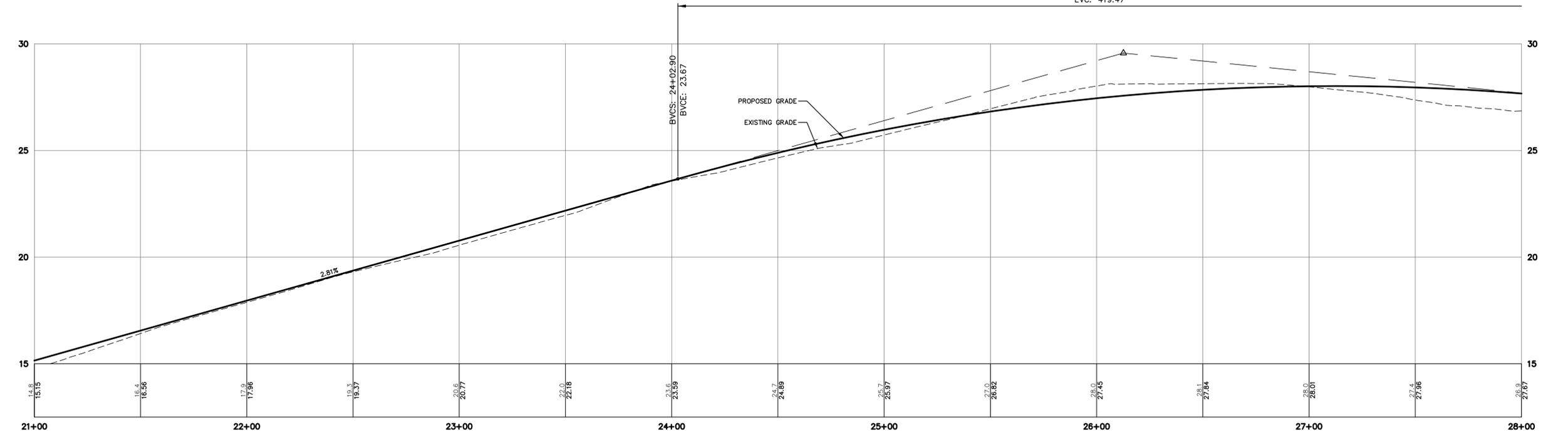
SHEET NO:

C-204

SEE SHEET C-203



HP STA: 27+12.31
HP ELEV: 28.02
PVI STA: 26+12.63
PVI ELEV: 29.57
K: 110.00
LVC: 419.47



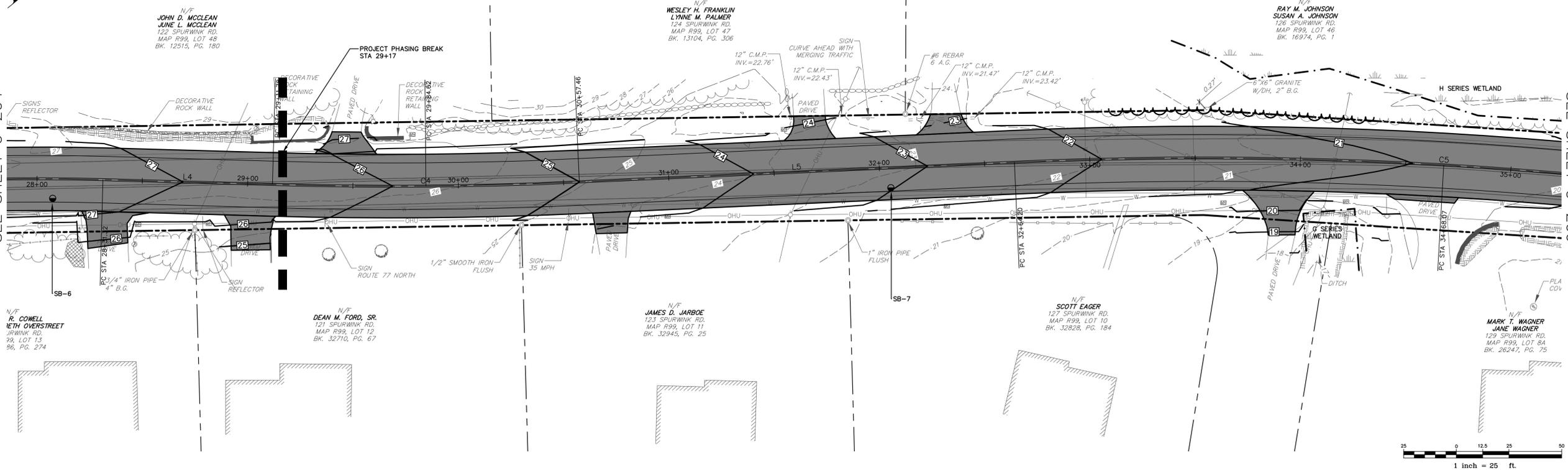
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50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

DRAFT

SEE SHEET C-204

SEE SHEET C-206



REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

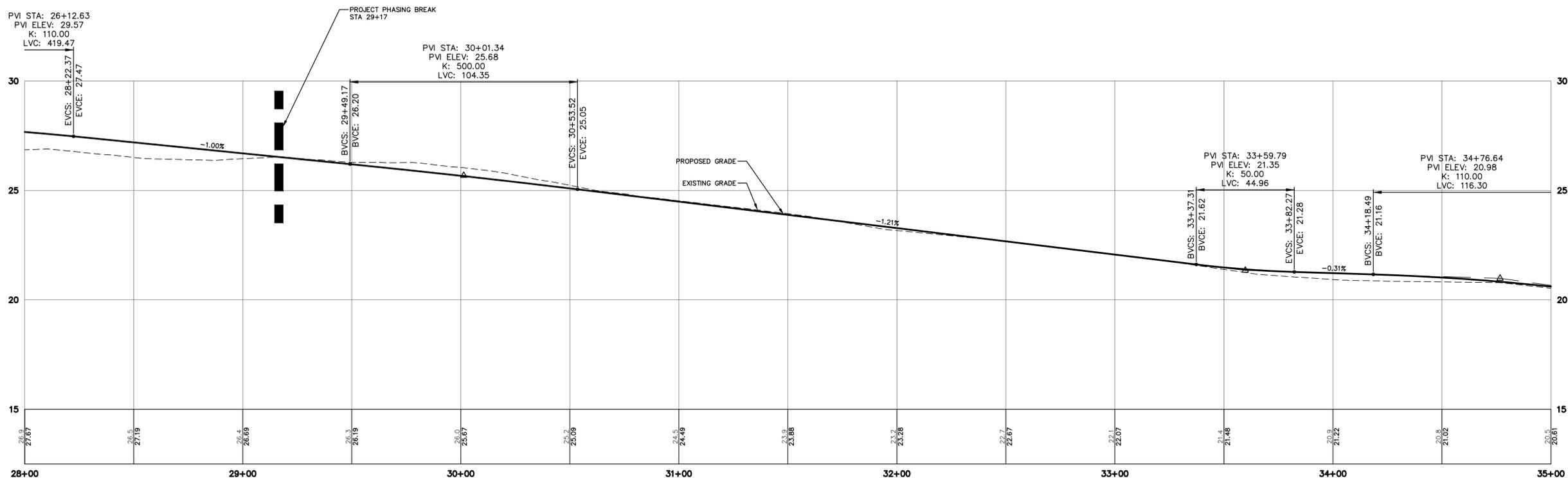
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 28+00 TO
STA 35+00**

SHEET NO:

C-205



M:\Cadd Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004_GRA09.dwg 2/4/2022 1:42:46 PM

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

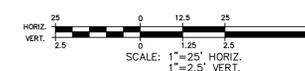
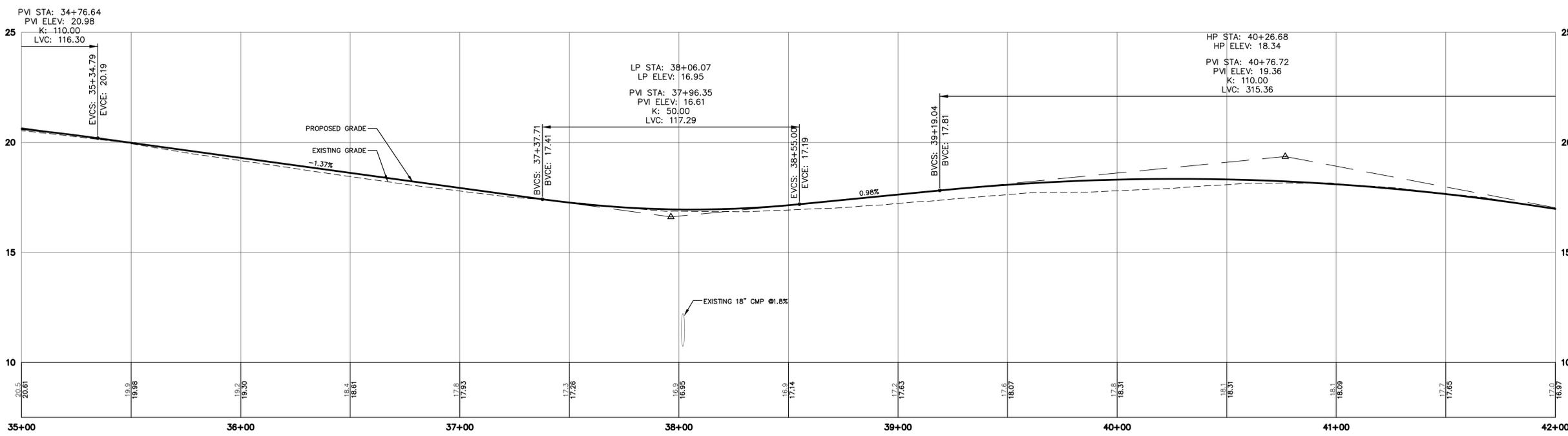
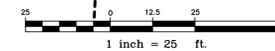
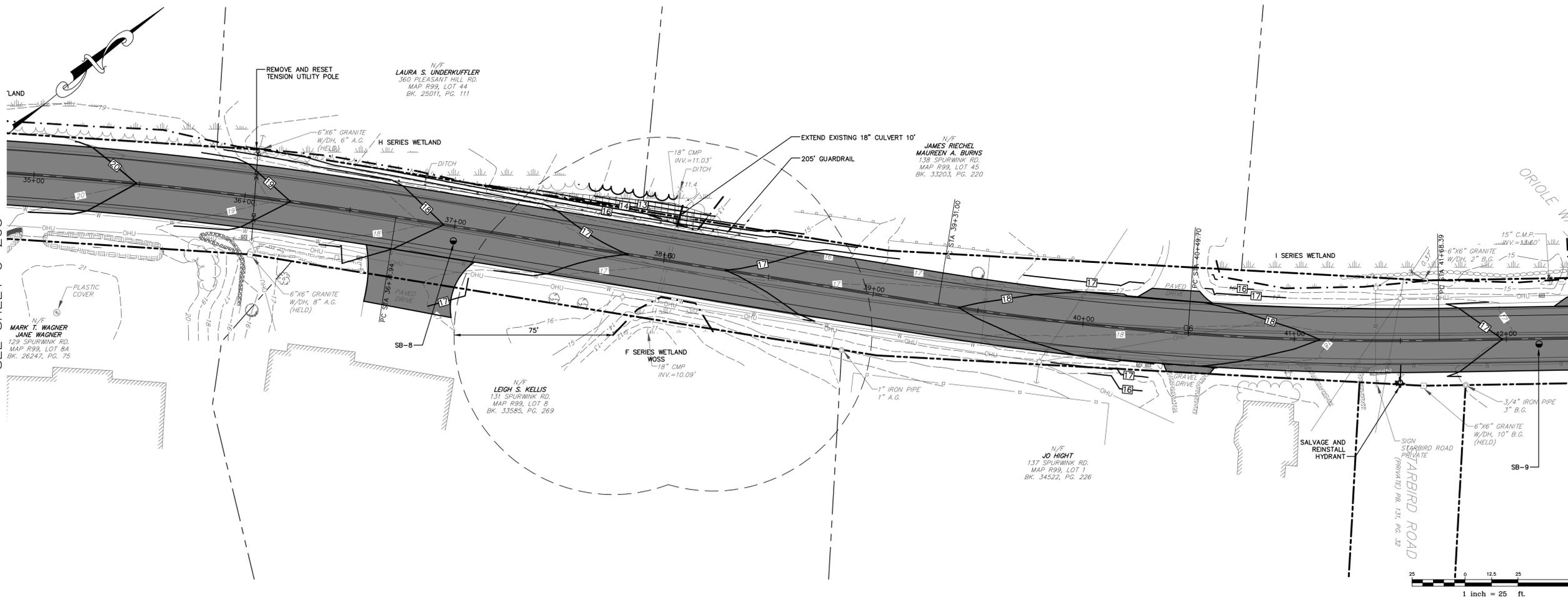
**SPURWINK ROAD
PLAN & PROFILE
STA 35+00 TO
STA 42+00**

SHEET NO:

C-206

SEE SHEET C-205

SEE SHEET C-207



M:_Cadd Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:45:04 PM

DRAFT

SEE SHEET C-208

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

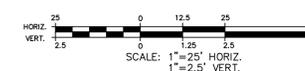
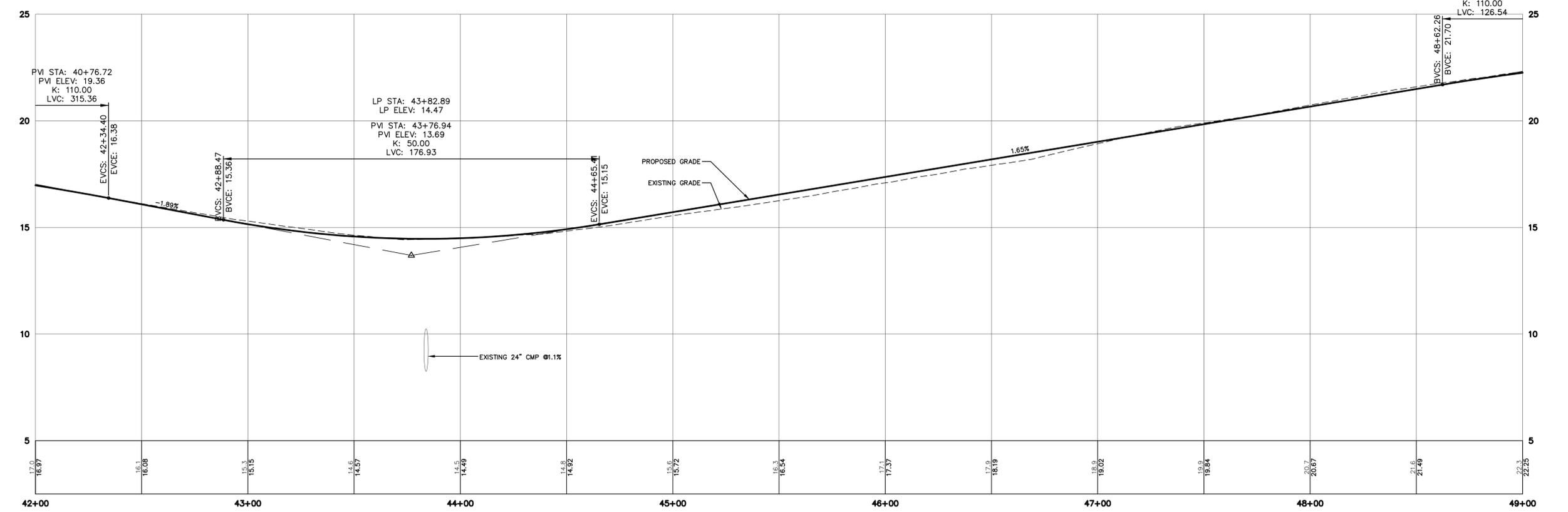
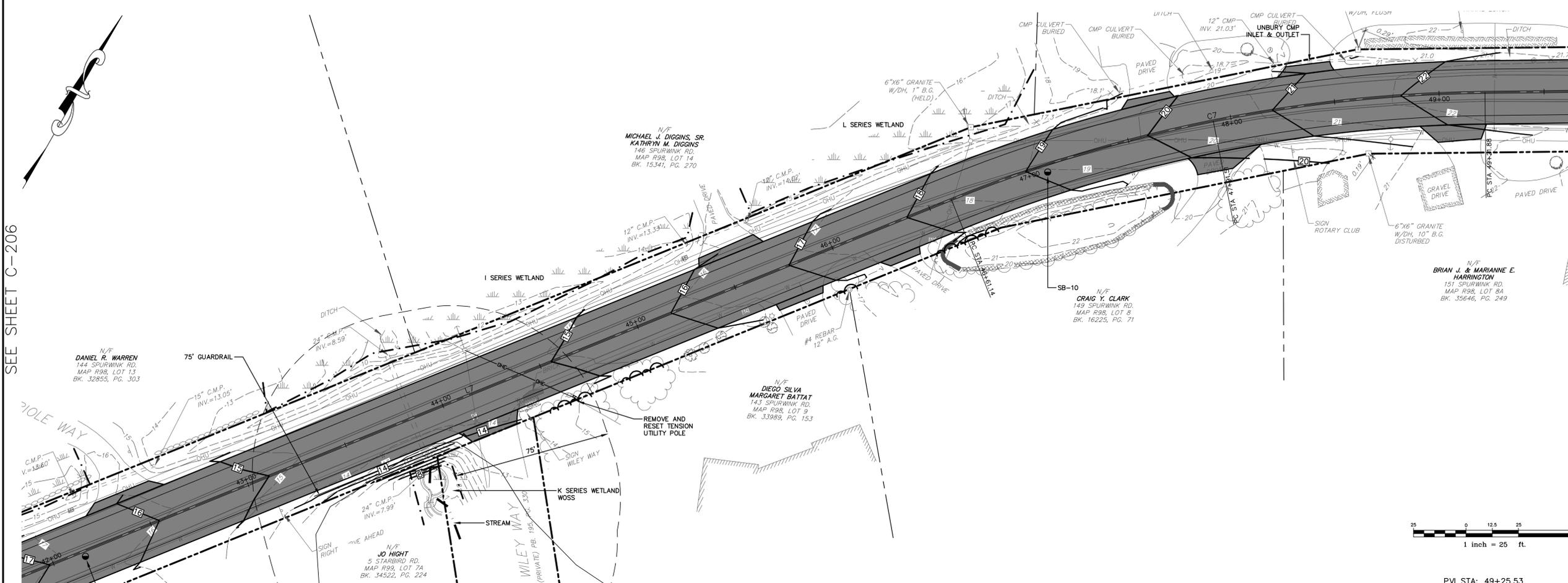
SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 42+00 TO
STA 49+00**

SHEET NO:

C-207

SEE SHEET C-206



M:_Code Drawings - Dwg\Active Dwg\ Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:42:19 PM

50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

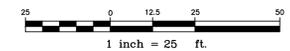
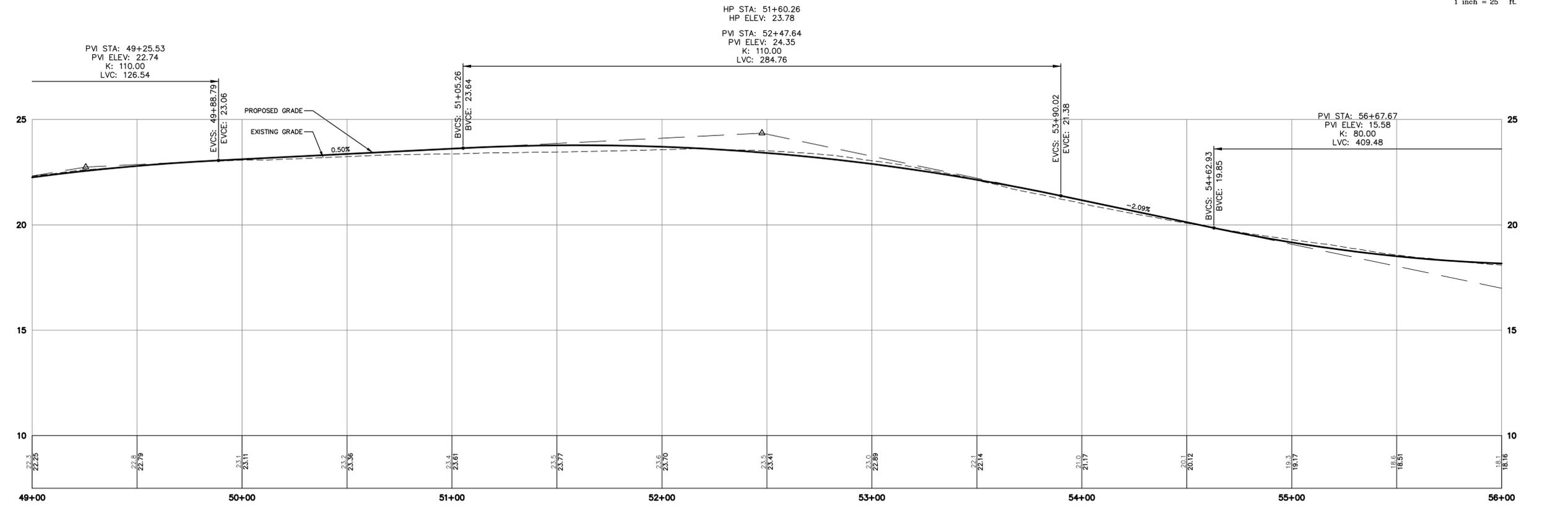
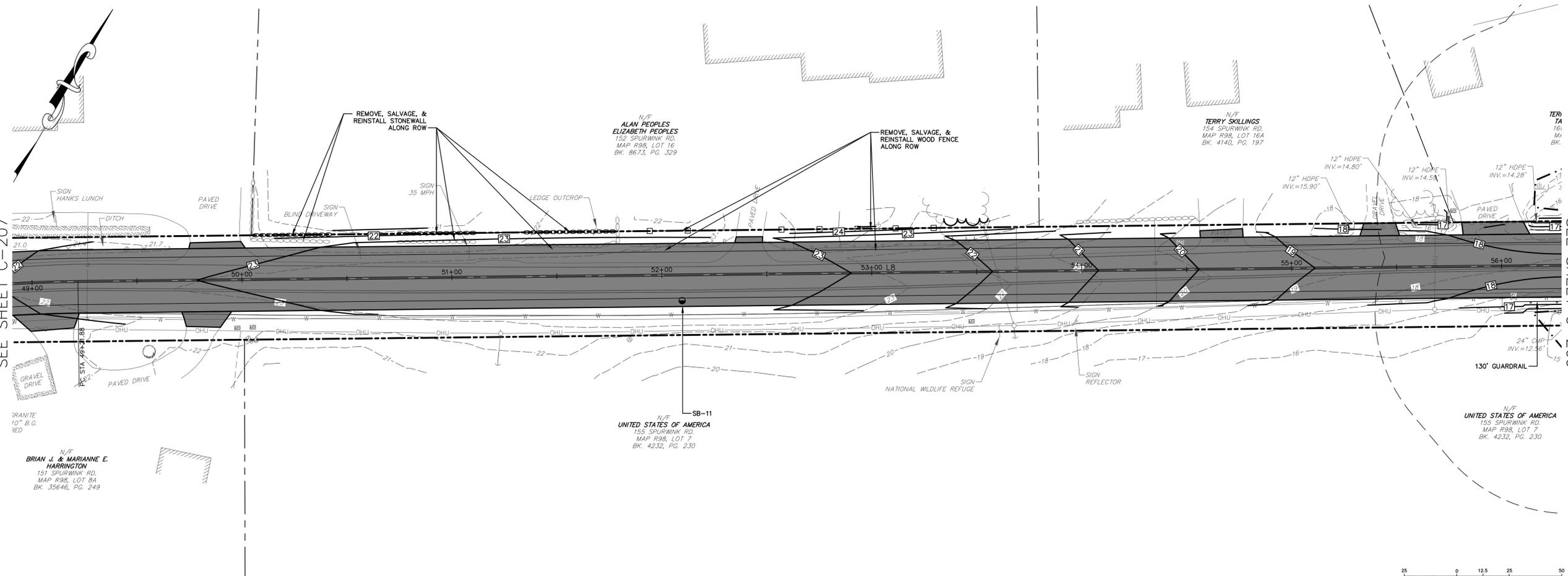
**SPURWINK ROAD
PLAN & PROFILE
STA 49+00 TO
STA 56+00**

SHEET NO:

C-208

SEE SHEET C-207

SEE SHEET C-209



DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

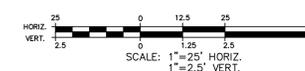
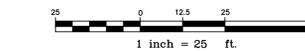
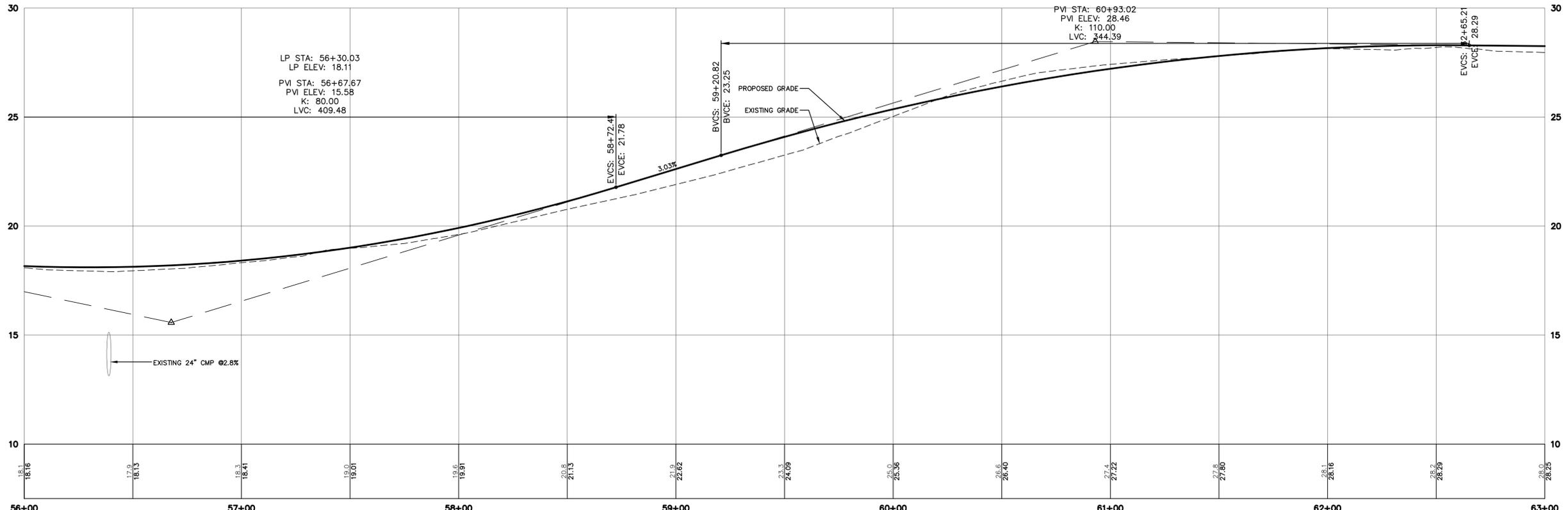
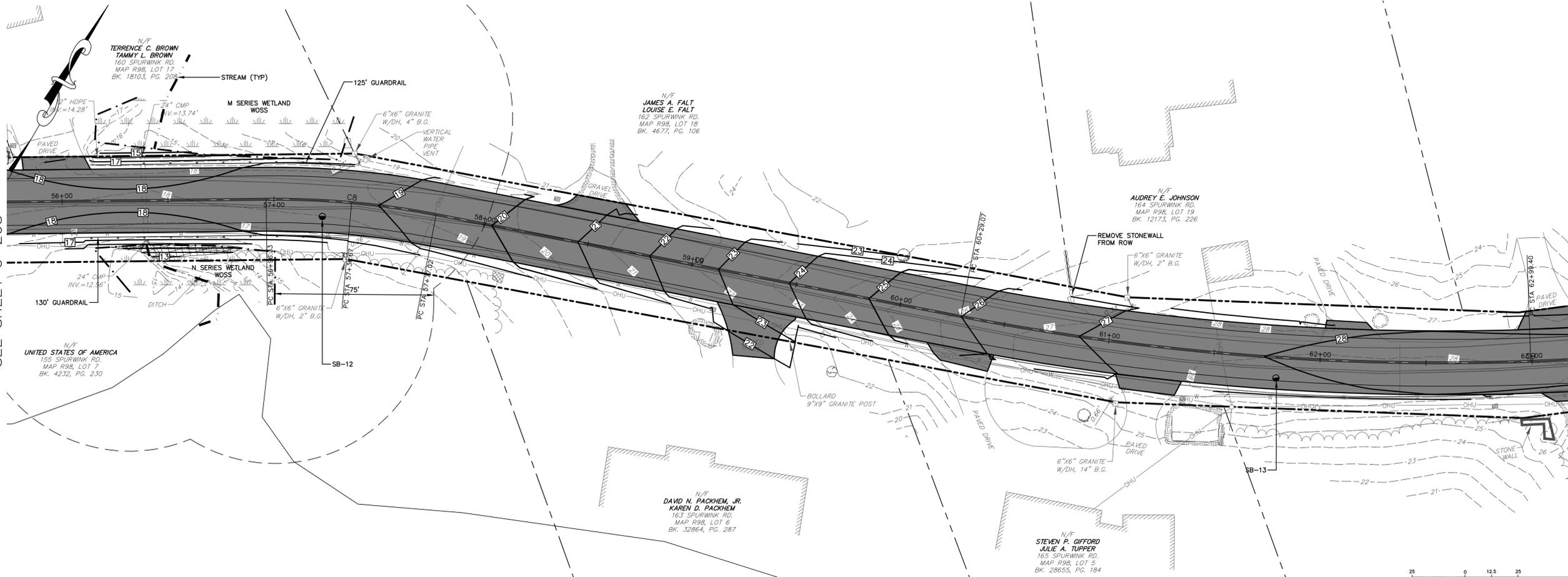
**SPURWINK ROAD
PLAN & PROFILE
STA 56+00 TO
STA 63+00**

SHEET NO:

C-209

SEE SHEET C-208

SEE SHEET C-210



DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:
**SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE**

CLIENT:
**SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE**

SHEET TITLE:

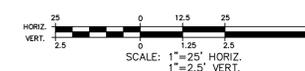
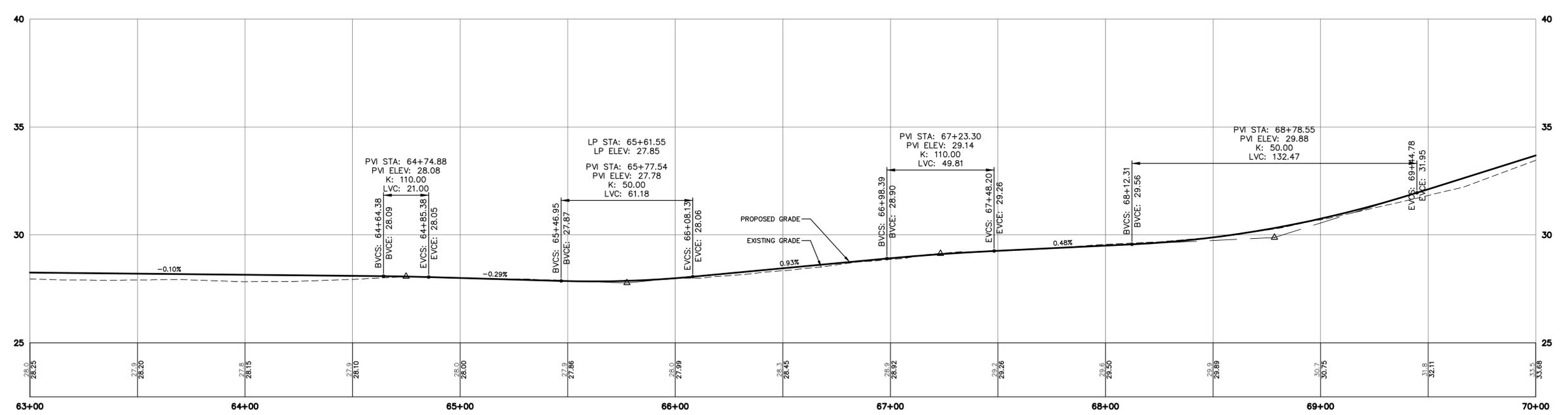
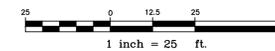
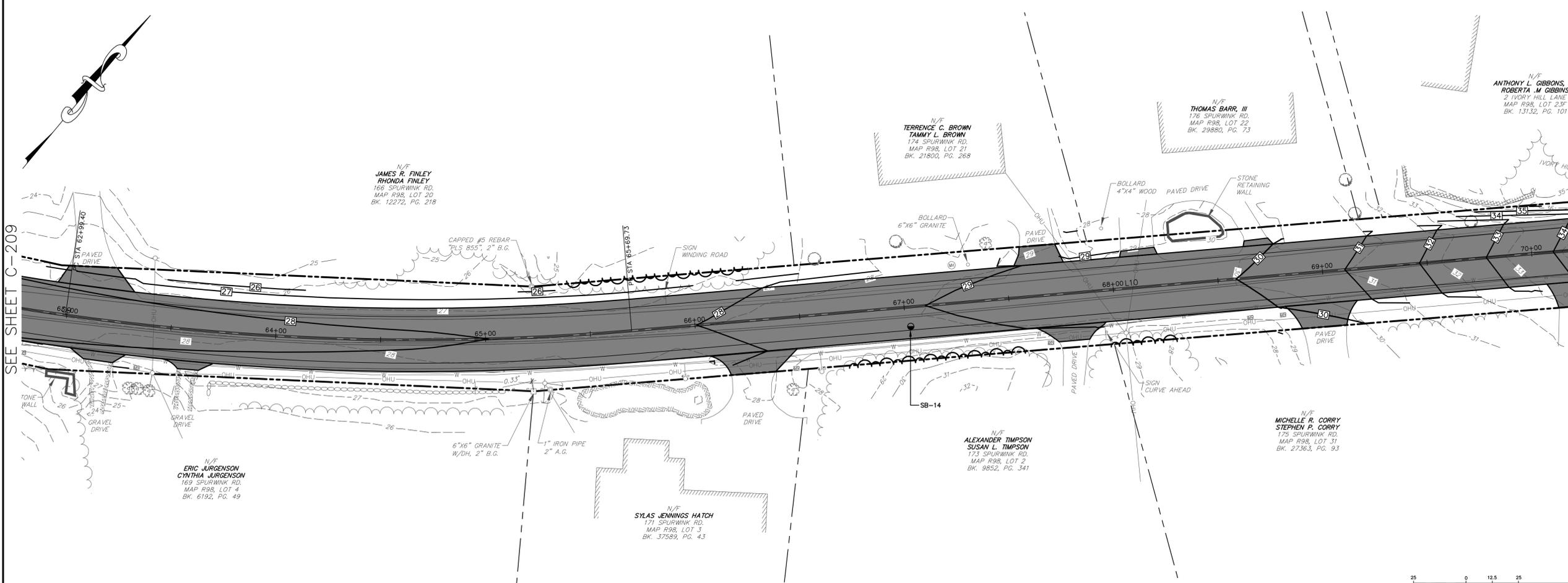
**SPURWINK ROAD
PLAN & PROFILE
STA 63+00 TO
STA 70+00**

SHEET NO:

C-210

SEE SHEET C-209

SEE SHEET C-211



M:\Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:44:02 PM

50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

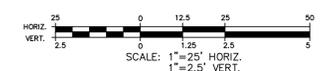
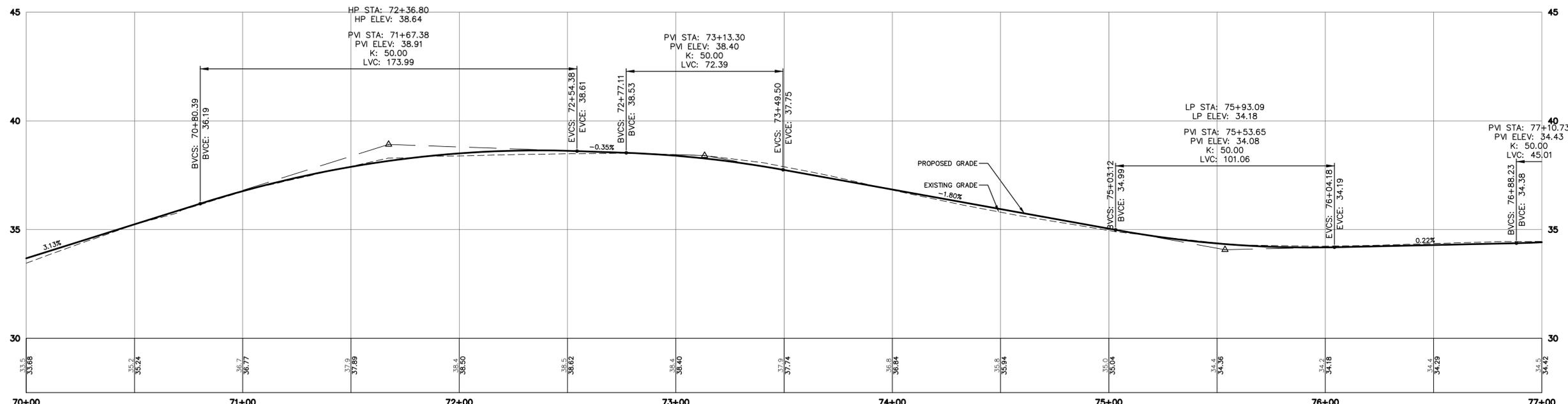
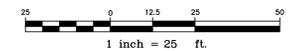
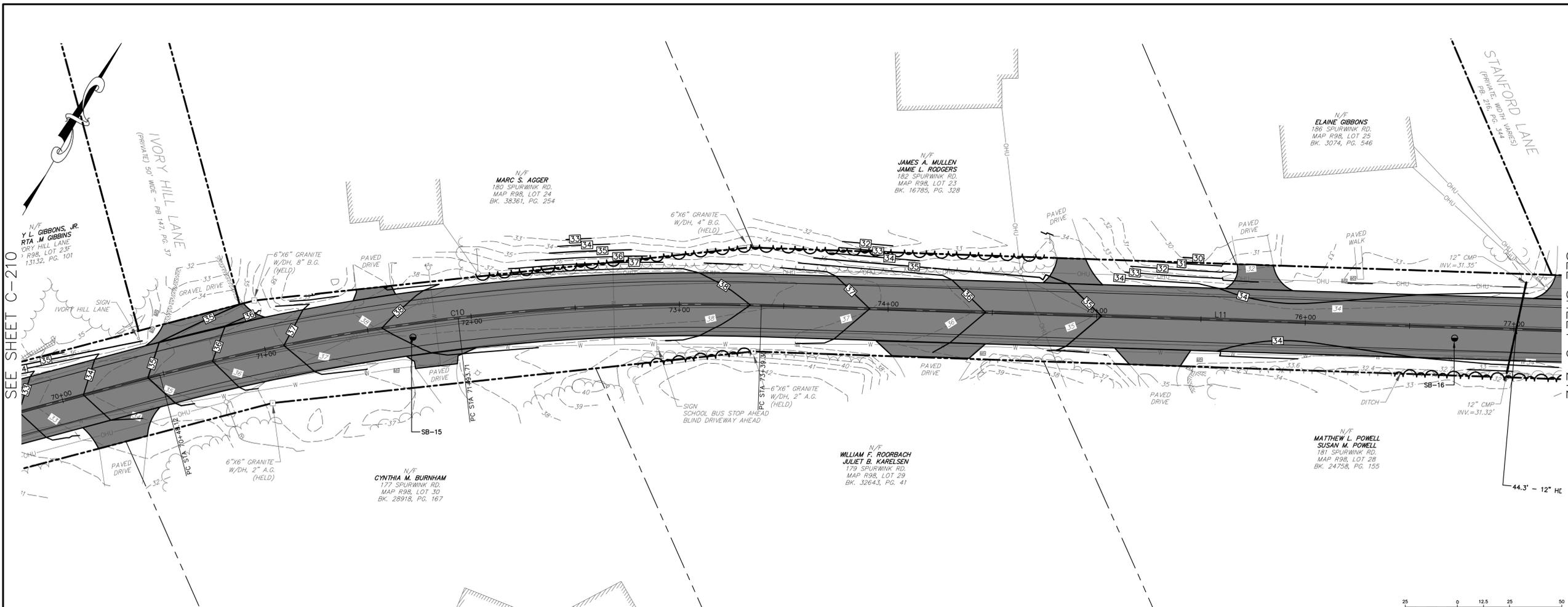
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 70+00 TO
STA 77+00**

SHEET NO:

C-211



M:\Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:44:17 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

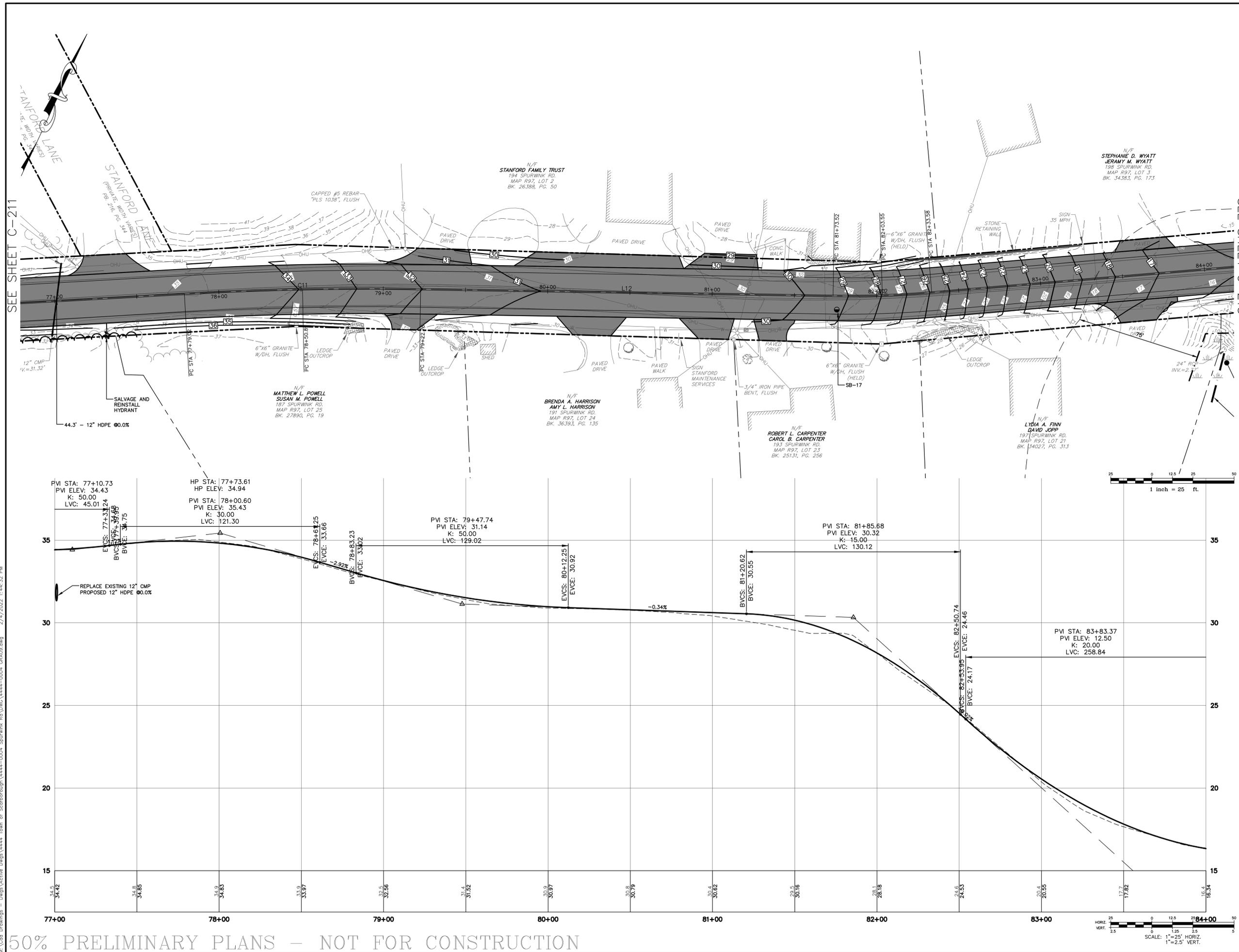
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 77+00 TO
STA 84+00**

SHEET NO:

C-212



50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

M:_Code Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRAD09.dwg 2/4/2022 1:44:32 PM

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

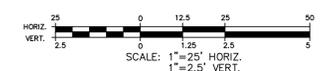
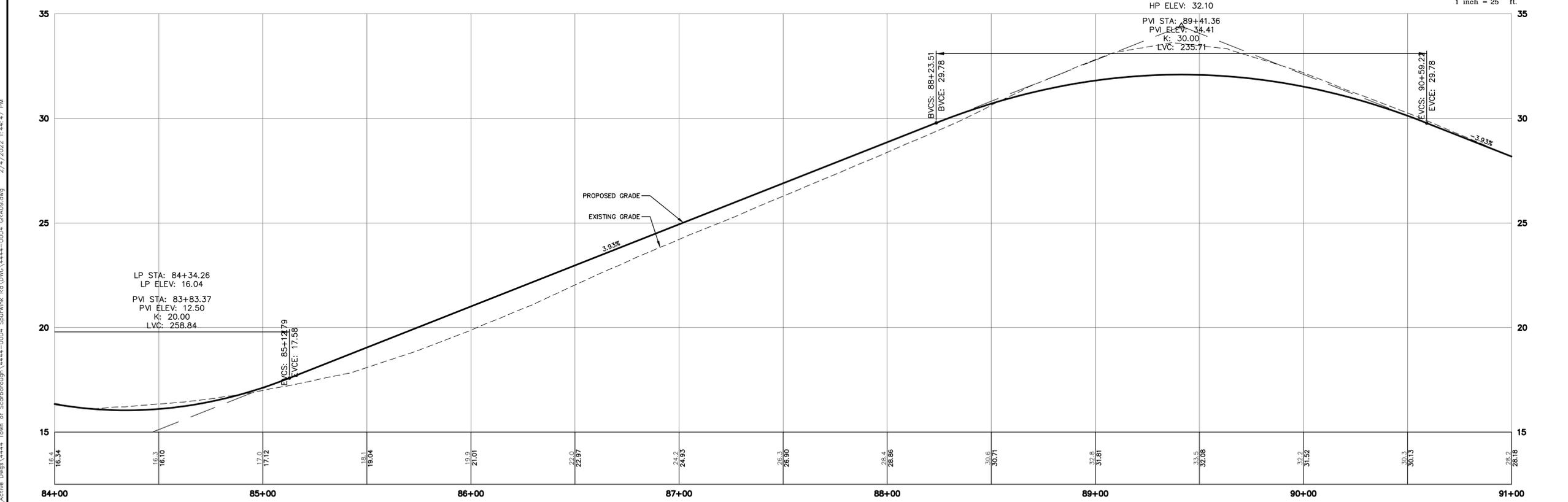
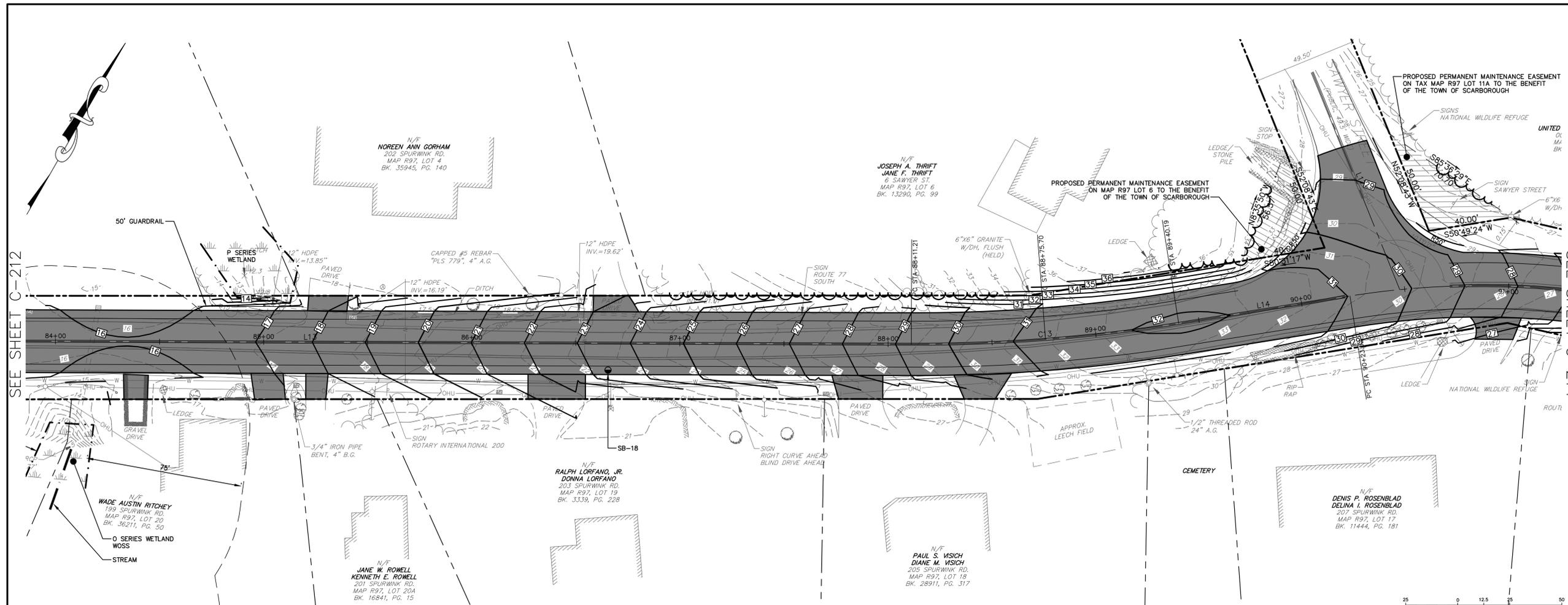
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 84+00 TO
STA 91+00**

SHEET NO:

C-213



DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

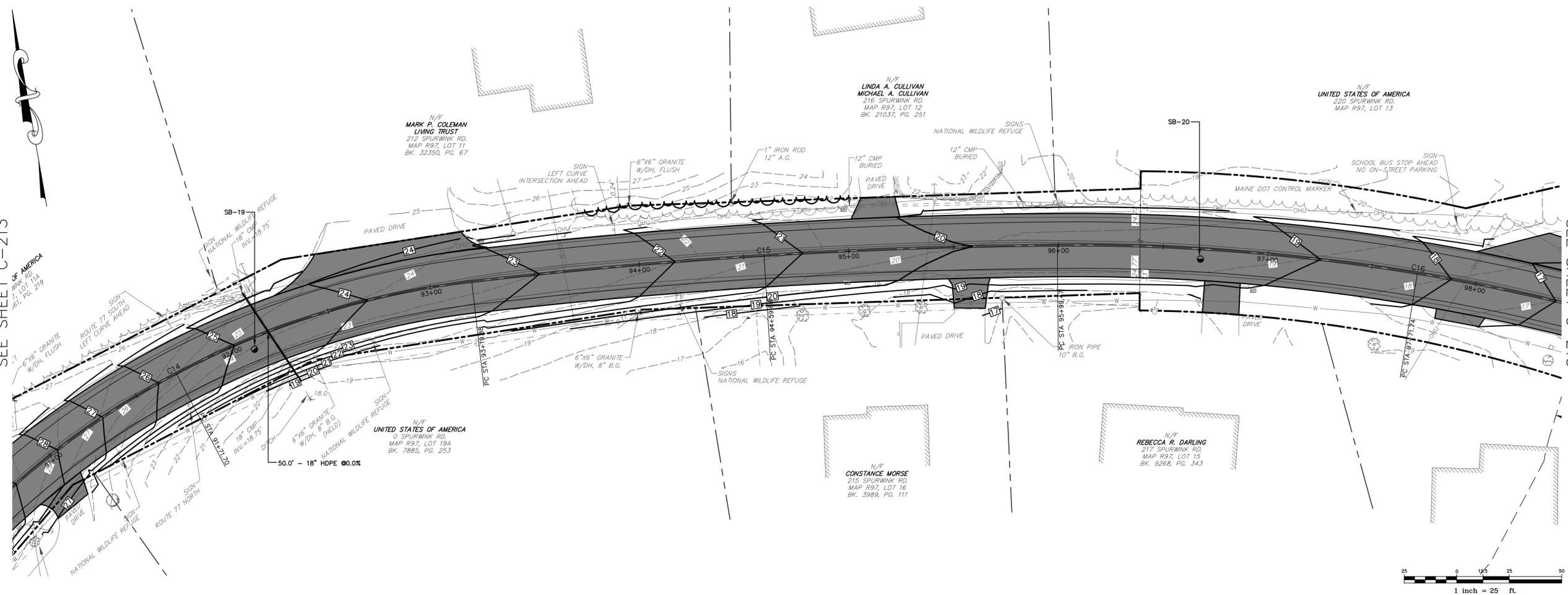
**SPURWINK ROAD
PLAN & PROFILE
STA 91+00 TO
STA 98+00**

SHEET NO:

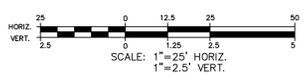
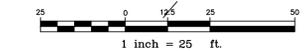
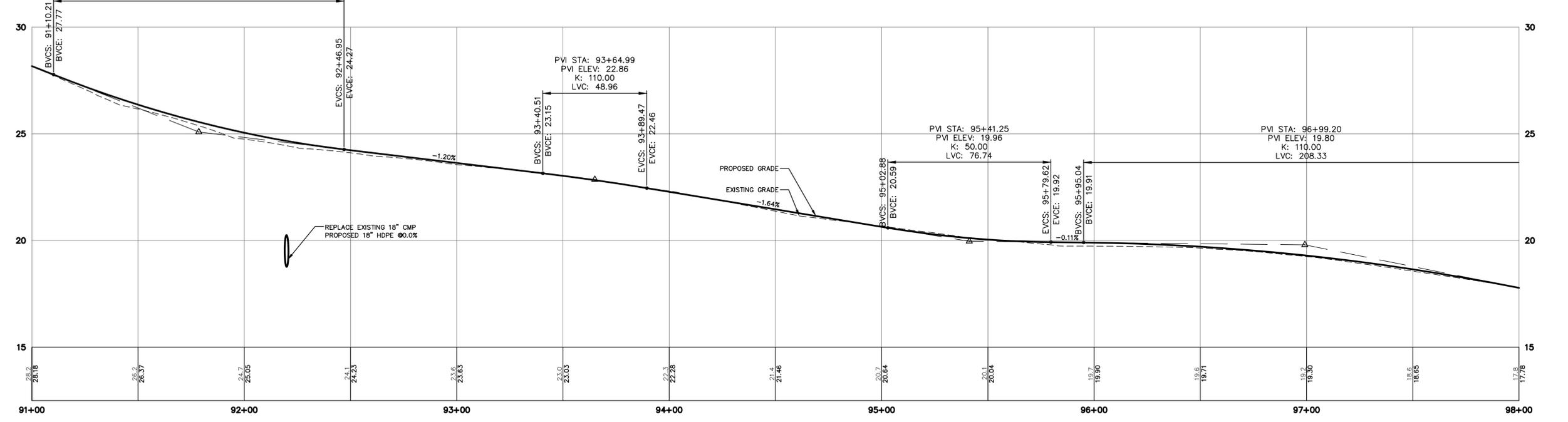
C-214

SEE SHEET C-213

SEE SHEET C-215



PVI STA: 91+78.58
PVI ELEV: 25.09
K: 50.00
LVC: 136.74



M:_Code Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:45:02 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

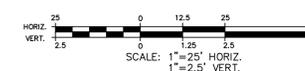
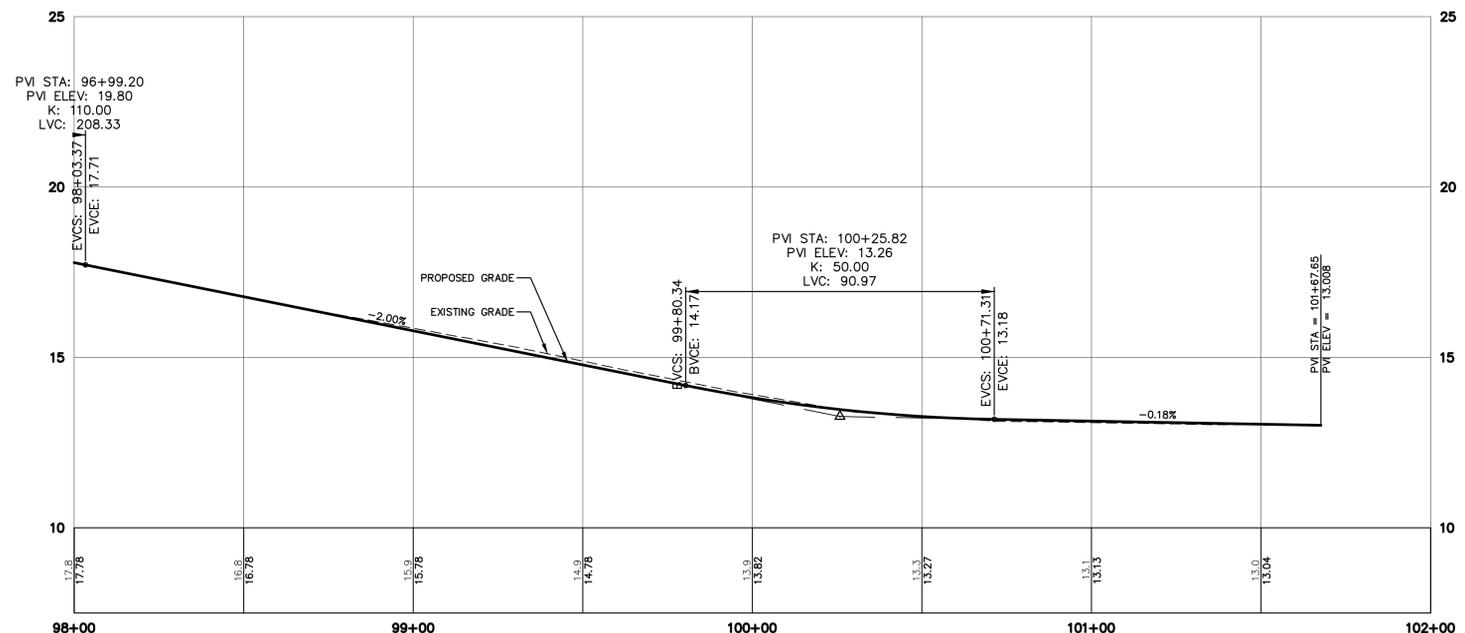
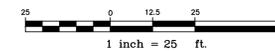
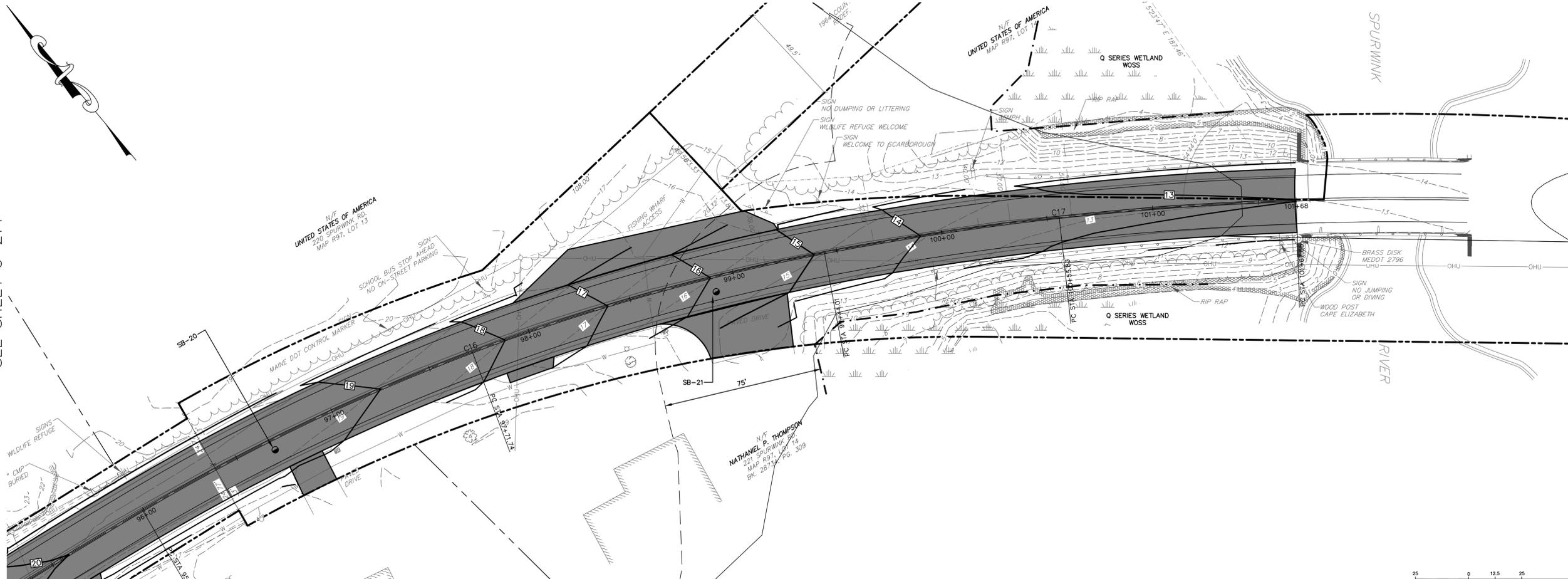
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
PLAN & PROFILE
STA 98+00 TO
STA 102+00**

SHEET NO:

C-215



SEE SHEET C-214

M:_Cod Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:45:17 PM

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

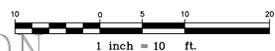
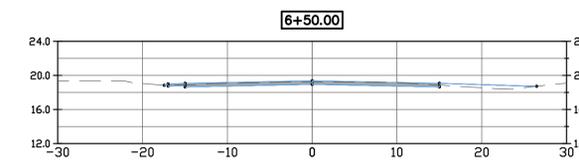
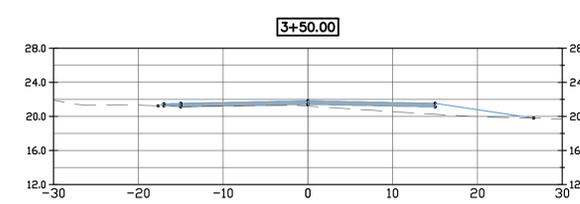
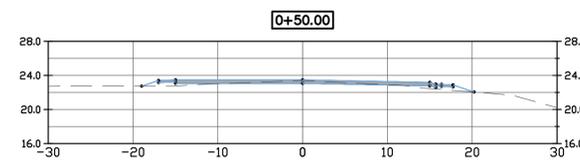
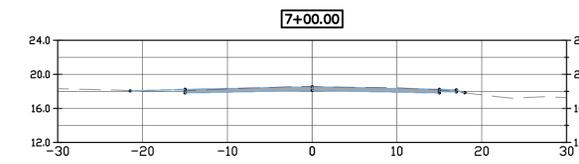
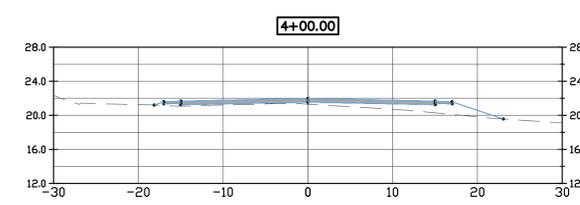
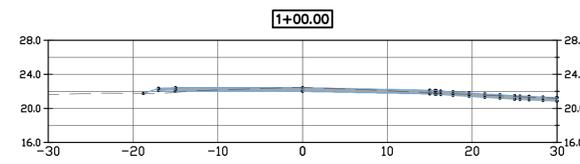
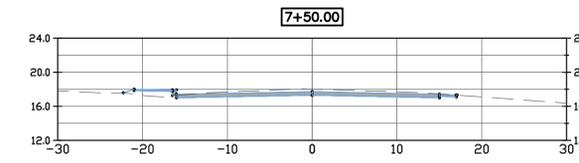
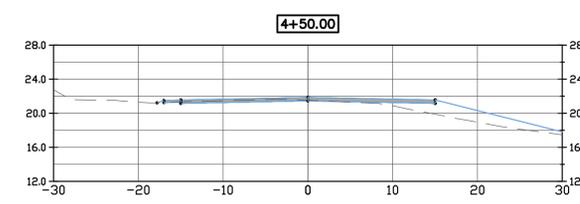
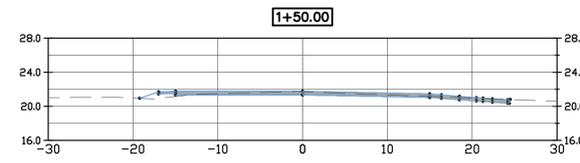
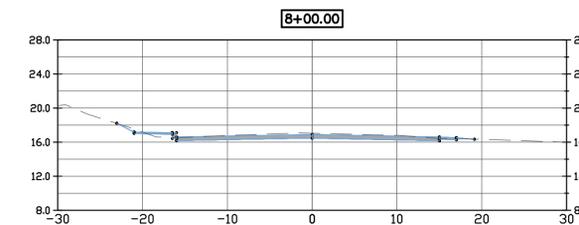
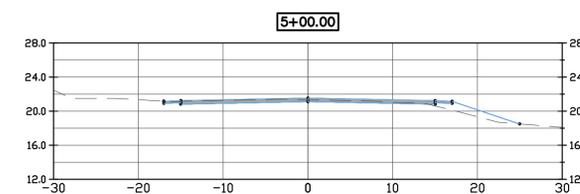
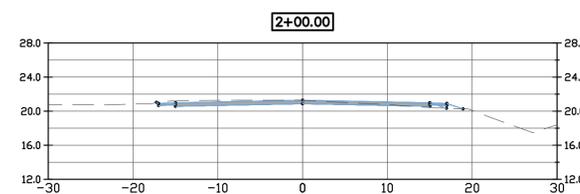
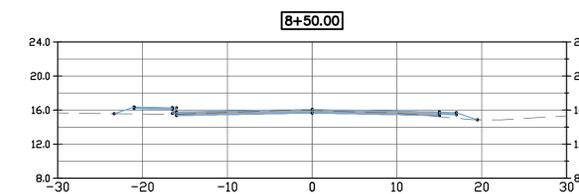
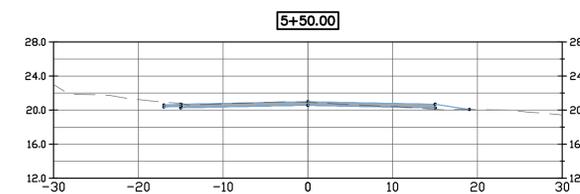
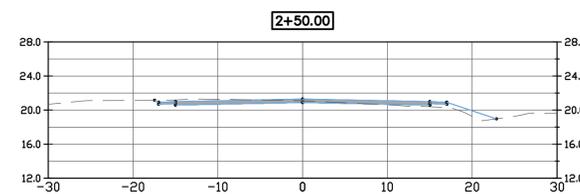
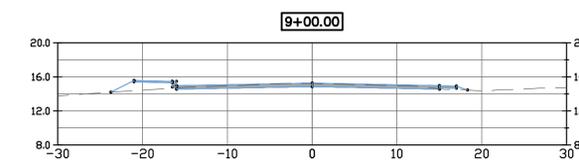
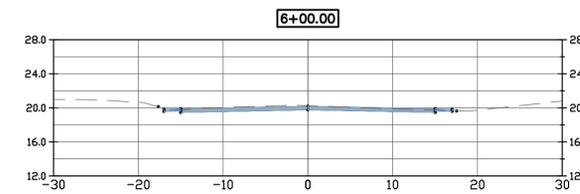
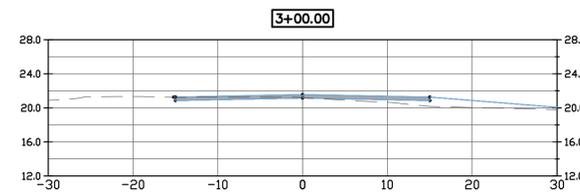
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 1**

SHEET NO:

C-301



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRAD09.dwg 2/4/2022 1:45:53 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

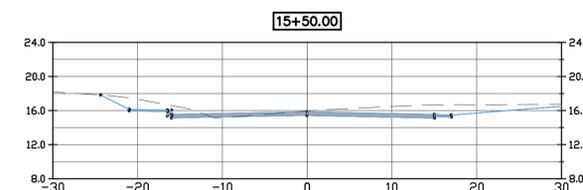
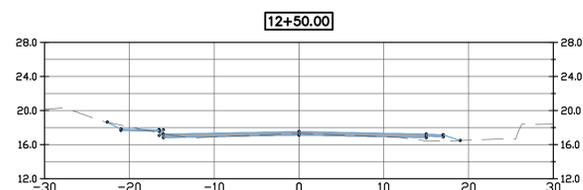
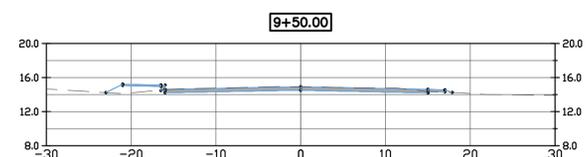
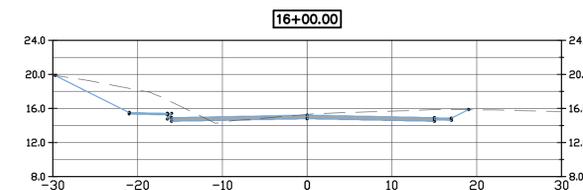
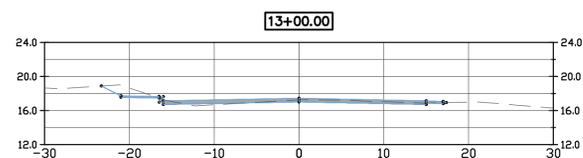
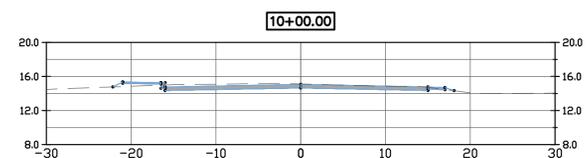
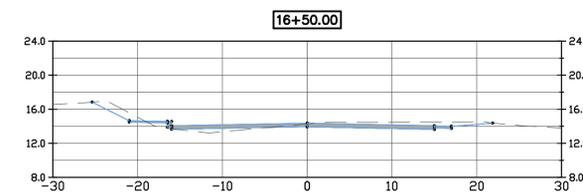
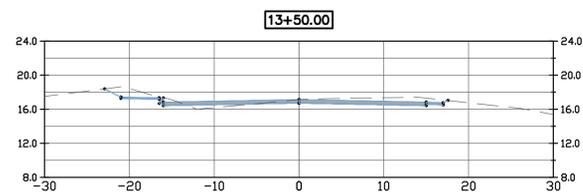
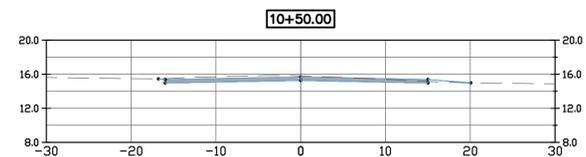
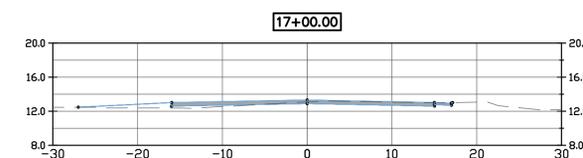
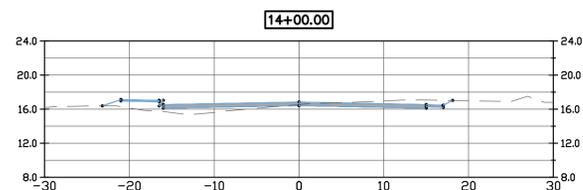
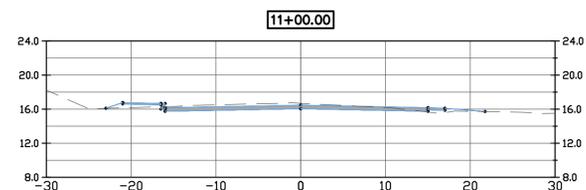
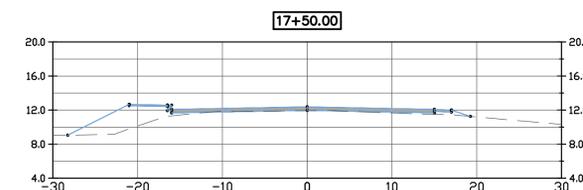
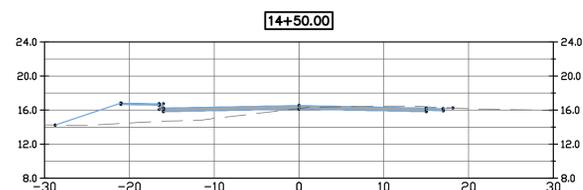
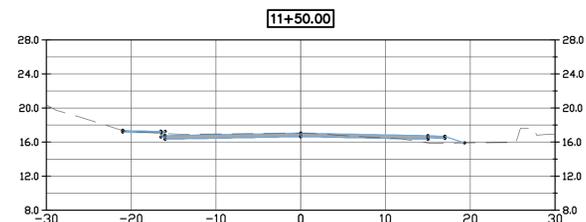
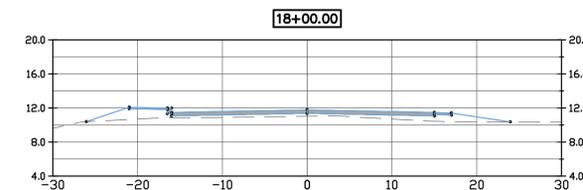
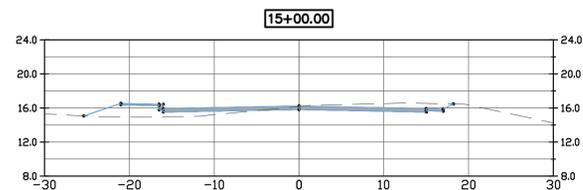
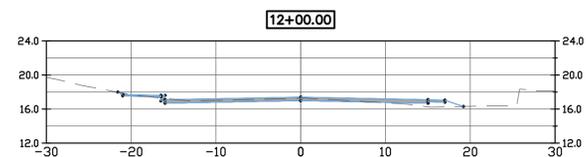
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 2**

SHEET NO:

C-302



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:46:02 PM

50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

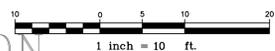
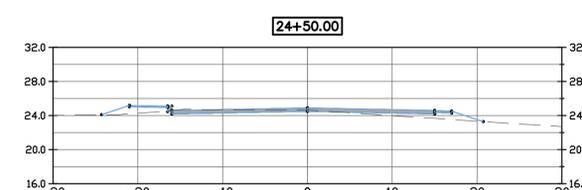
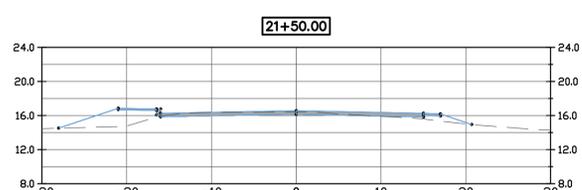
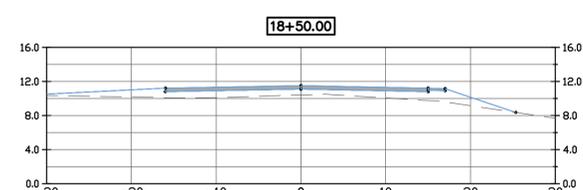
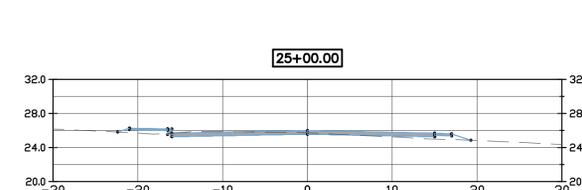
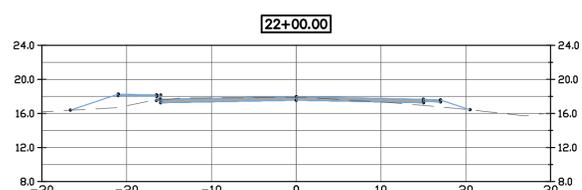
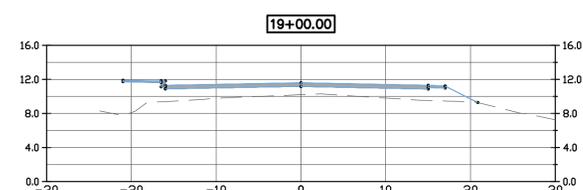
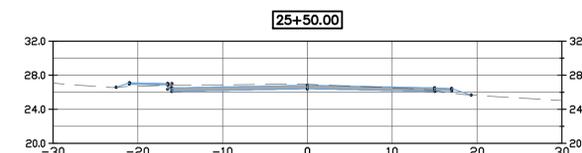
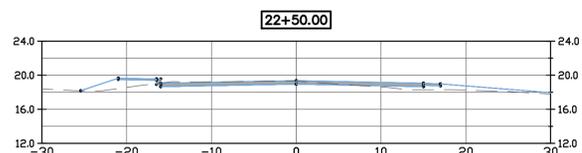
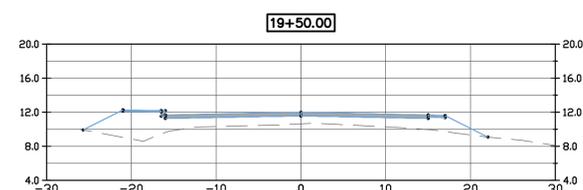
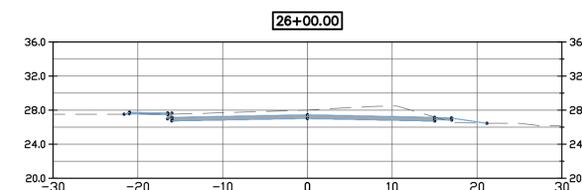
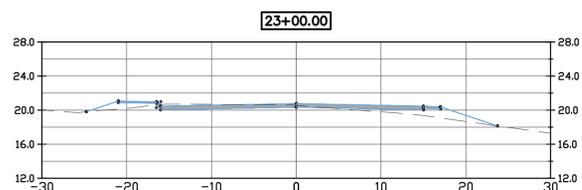
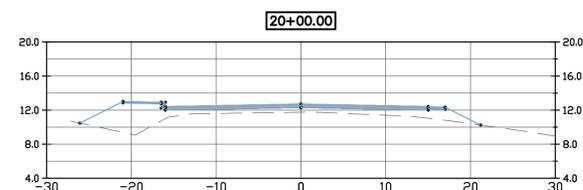
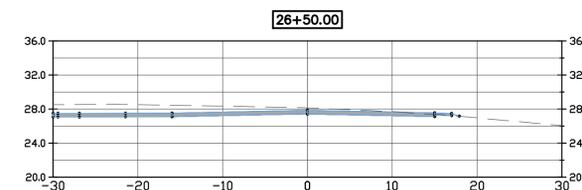
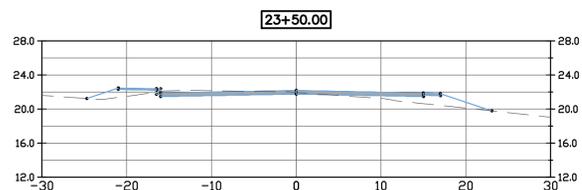
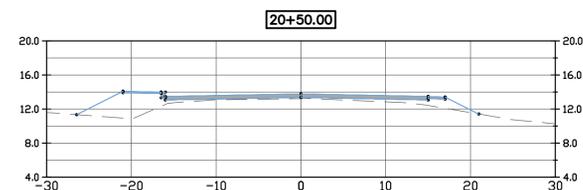
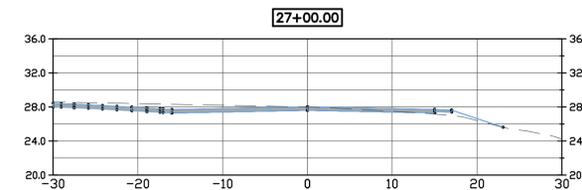
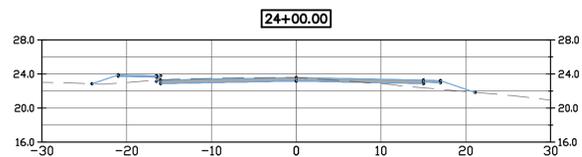
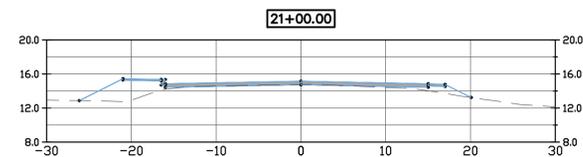
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 3**

SHEET NO:

C-303



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRAD09.dwg 2/4/2022 1:46:11 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

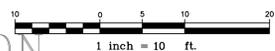
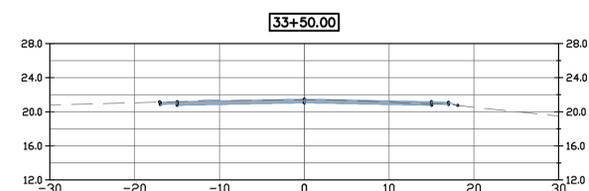
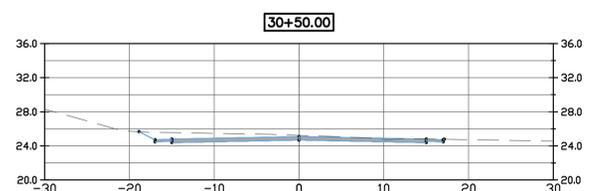
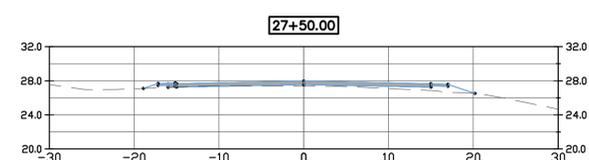
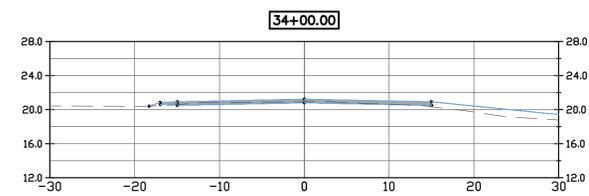
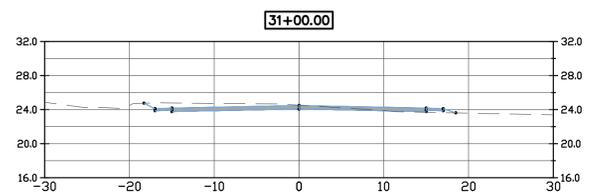
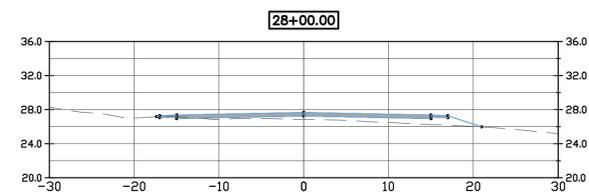
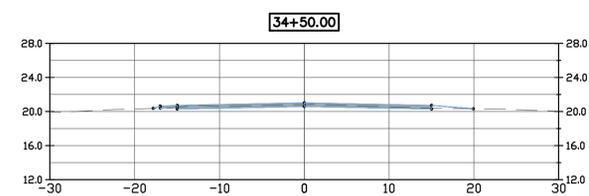
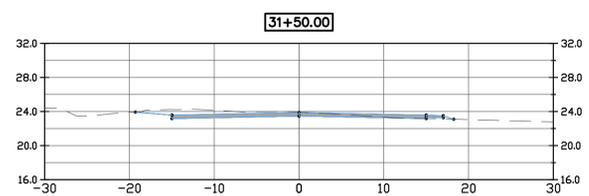
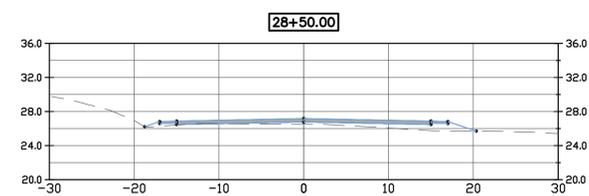
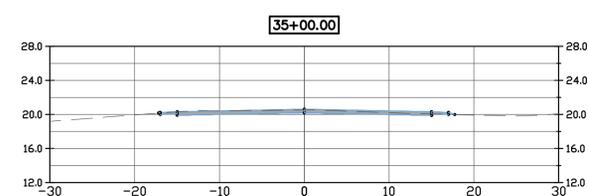
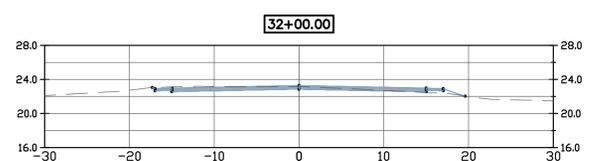
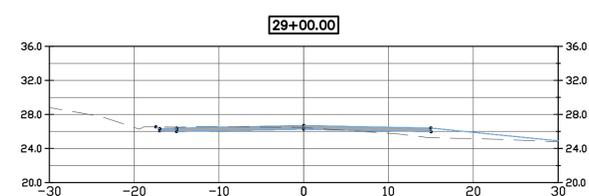
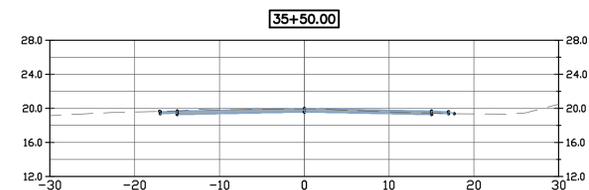
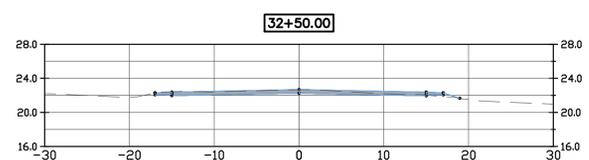
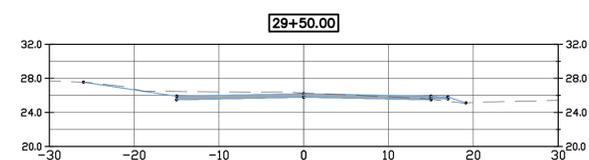
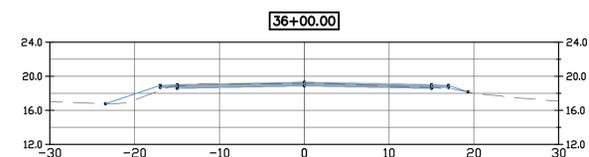
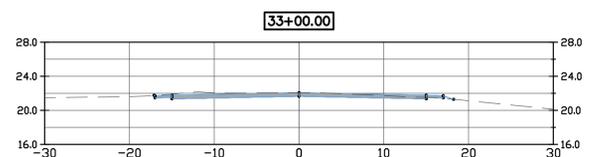
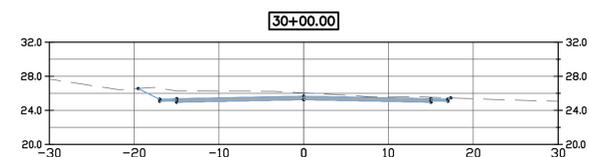
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 4**

SHEET NO:

C-304



M:_Cod Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:46:20 PM

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

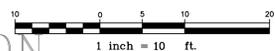
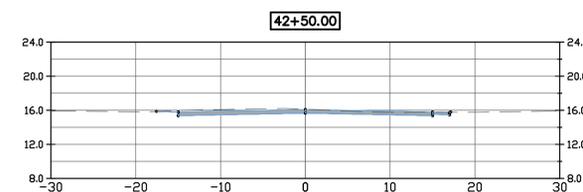
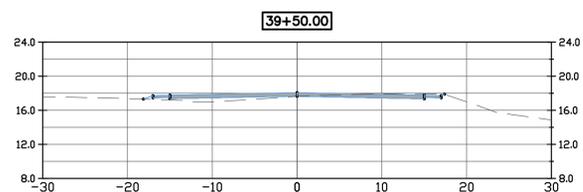
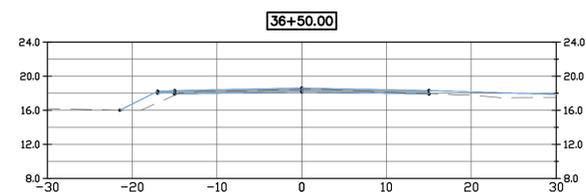
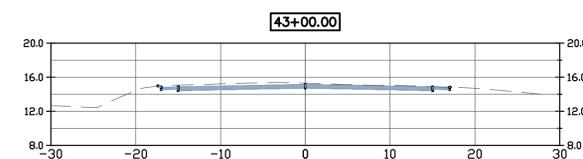
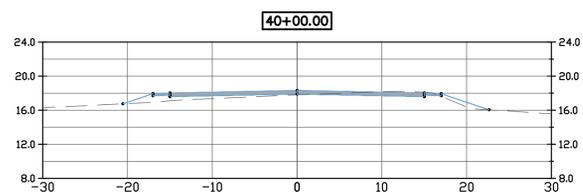
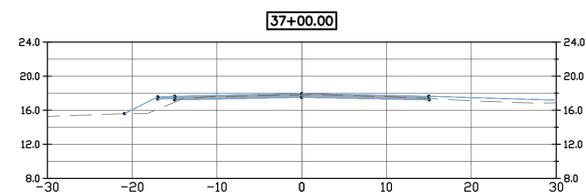
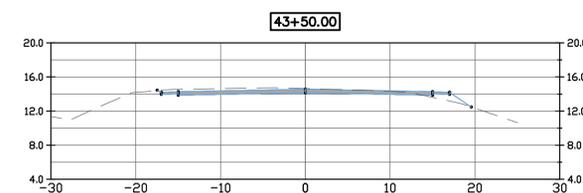
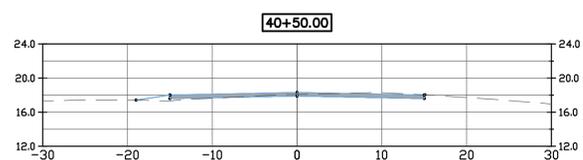
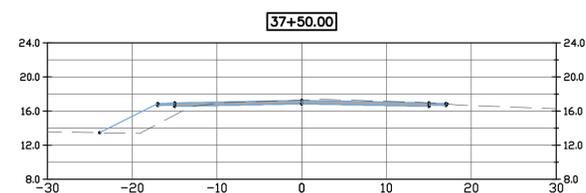
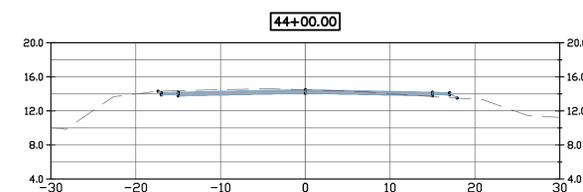
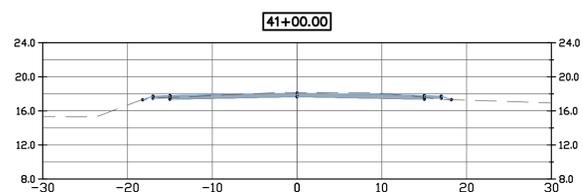
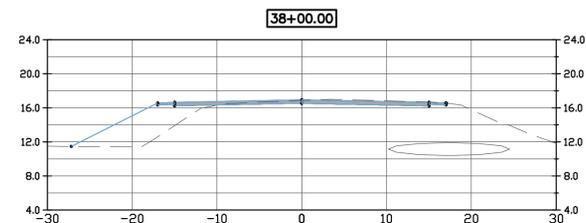
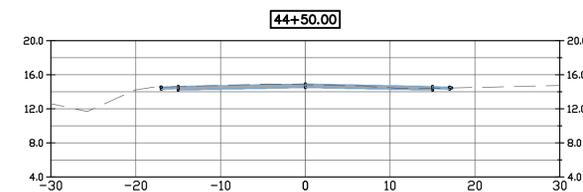
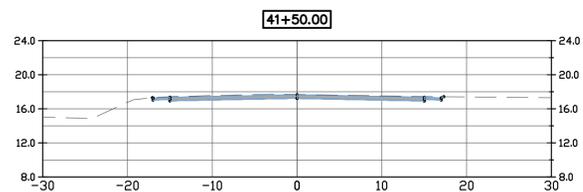
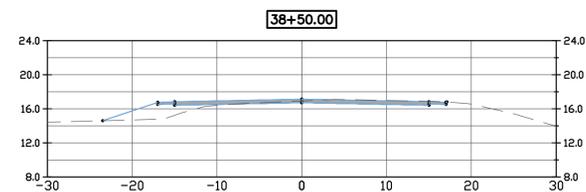
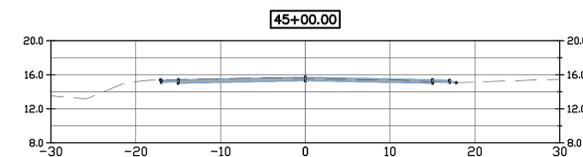
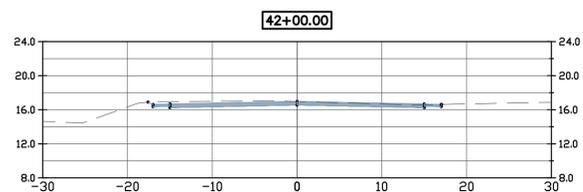
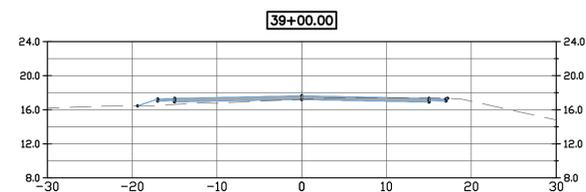
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 5**

SHEET NO:

C-305



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:46:29 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
 DRAWN BY: PMG
 CHECKED BY: PJC
 DATE: 2/4/2022
 FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
 IMPROVEMENTS
 SCARBOROUGH, MAINE

CLIENT:

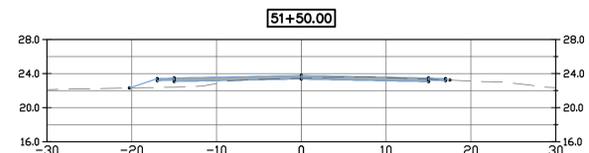
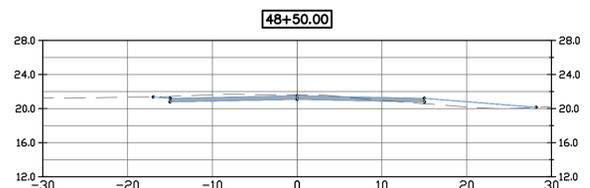
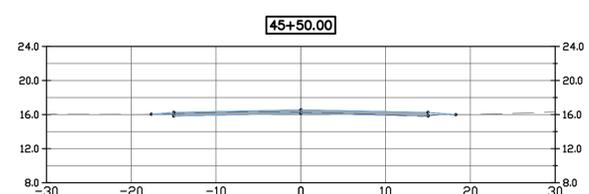
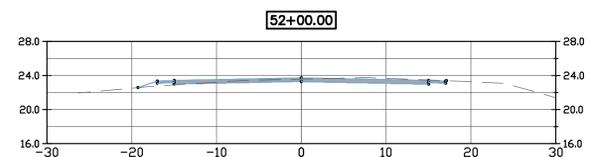
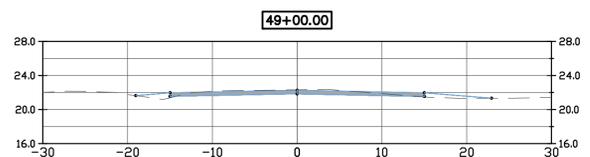
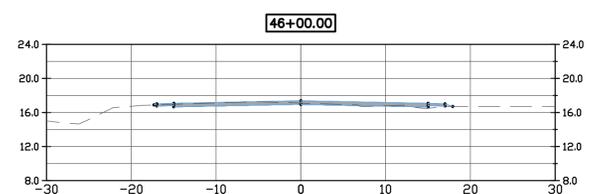
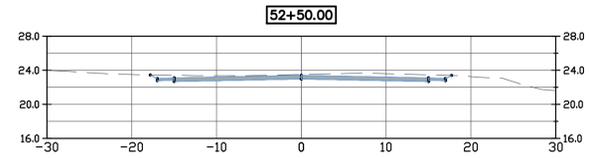
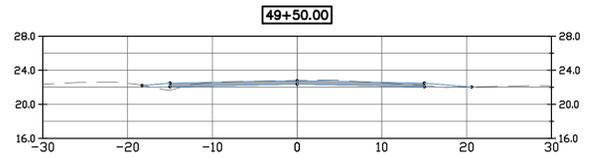
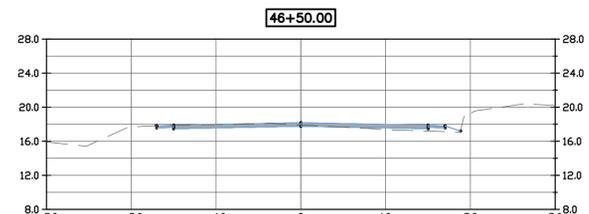
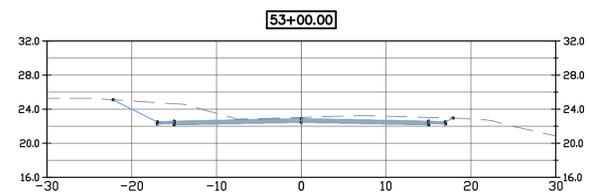
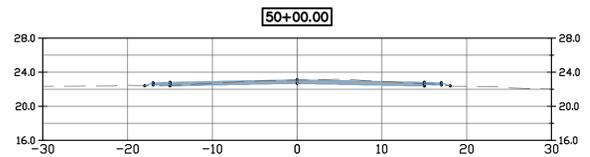
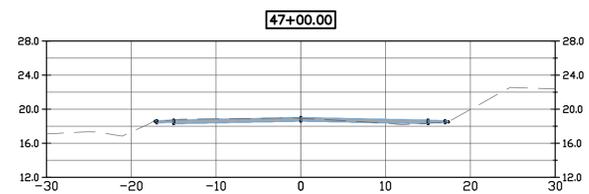
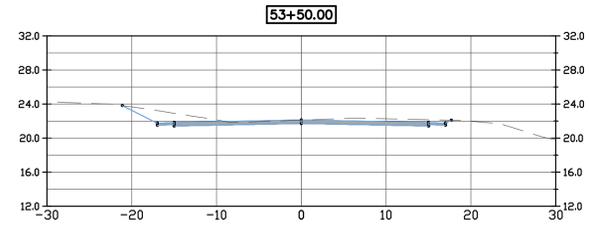
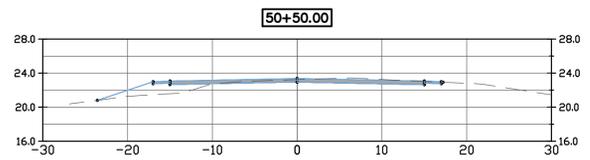
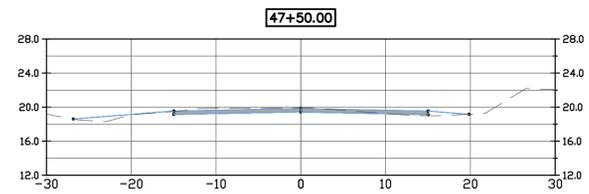
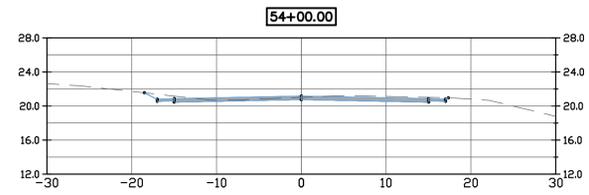
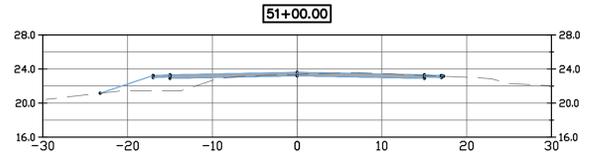
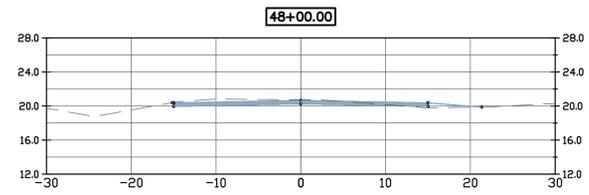
SCARBOROUGH PUBLIC WORKS
 20 WASHINGTON AVENUE
 SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
 CROSS
 SECTIONS - 6**

SHEET NO:

C-306



M:_Code Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004_GRA09.dwg 2/4/2022 1:46:36 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

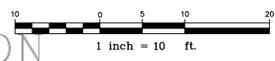
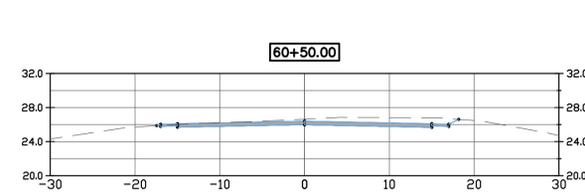
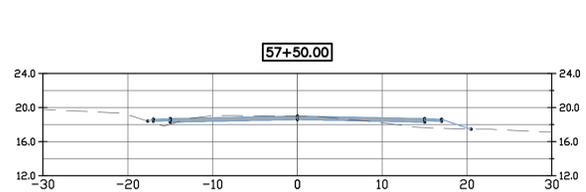
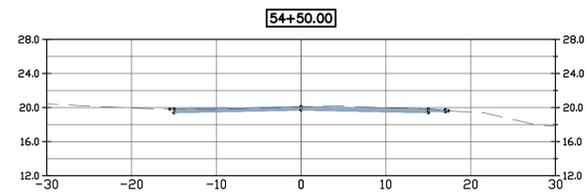
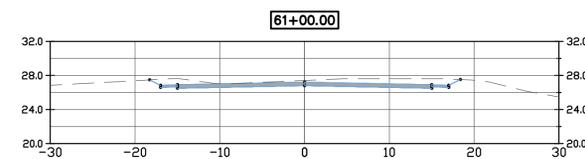
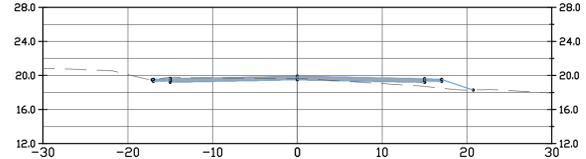
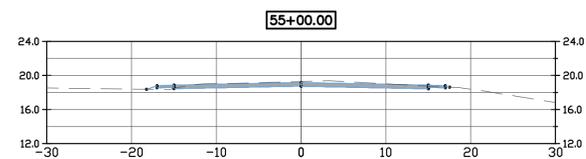
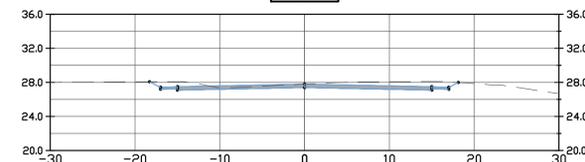
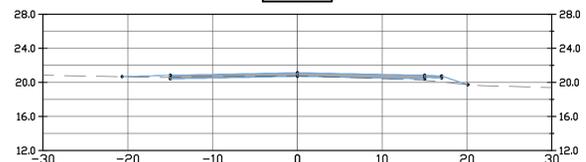
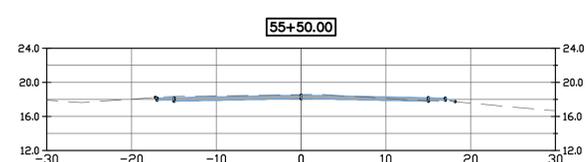
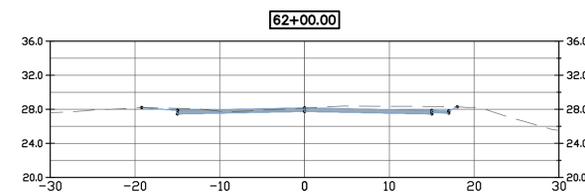
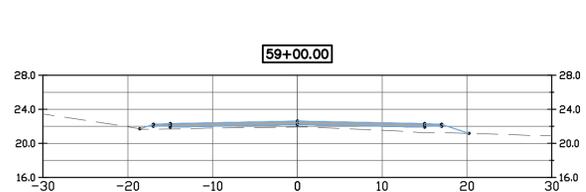
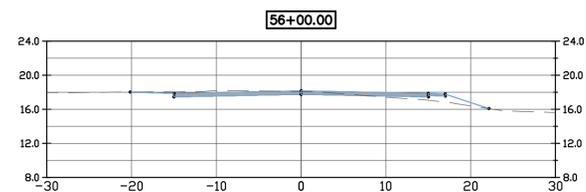
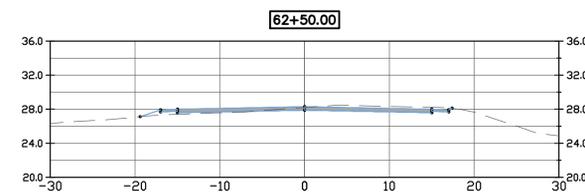
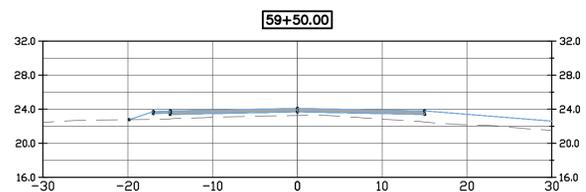
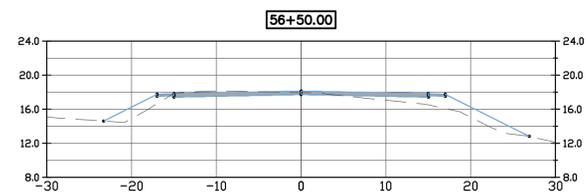
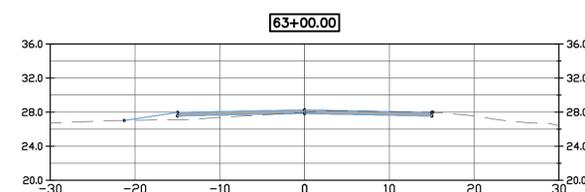
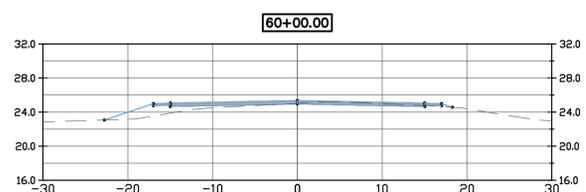
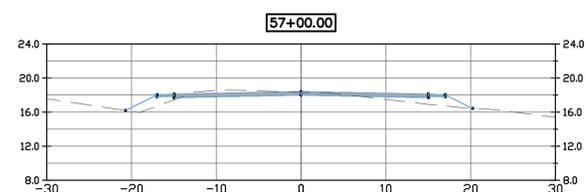
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 7**

SHEET NO:

C-307



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:46:47 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

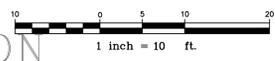
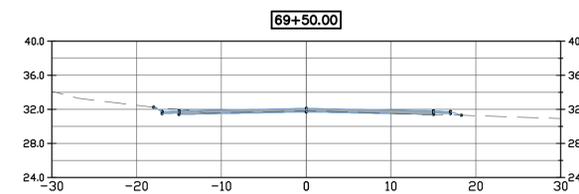
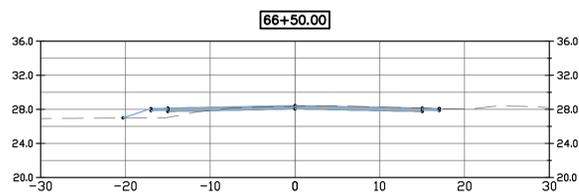
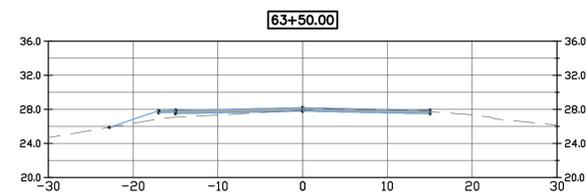
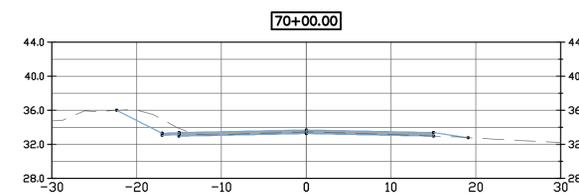
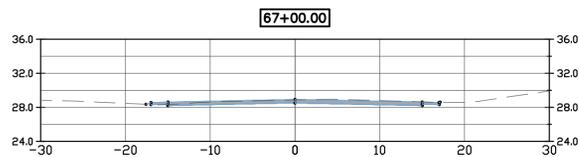
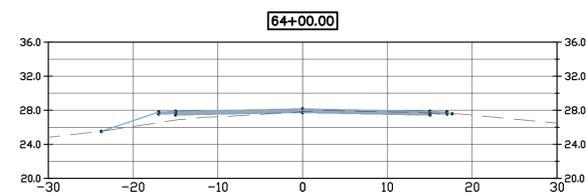
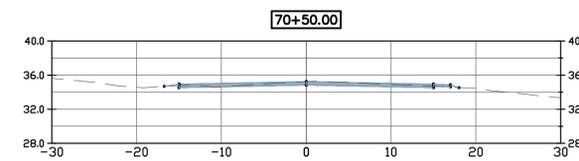
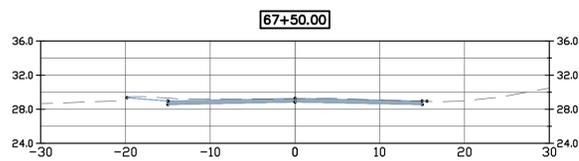
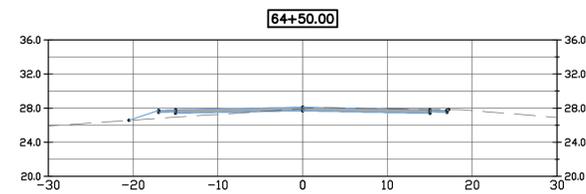
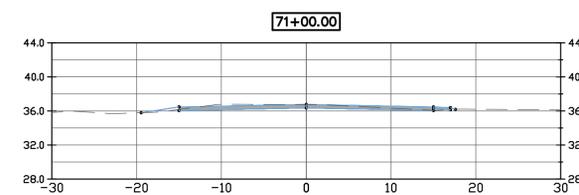
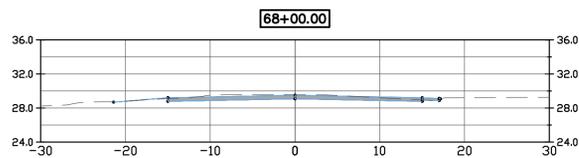
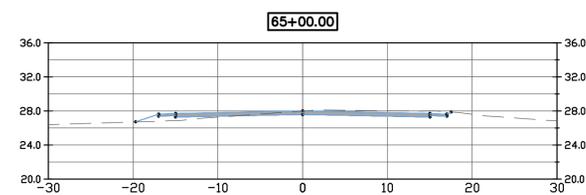
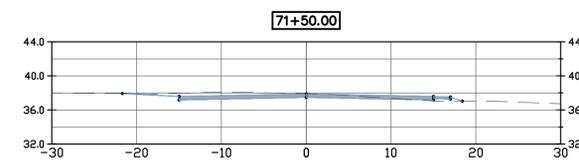
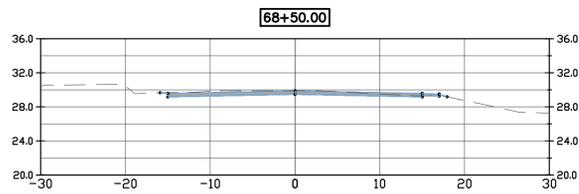
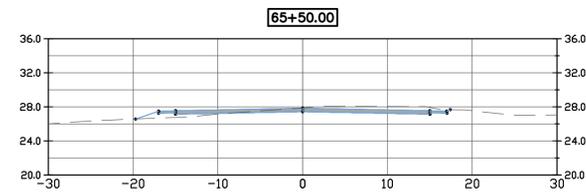
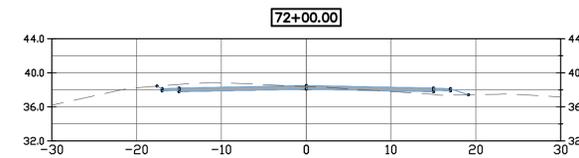
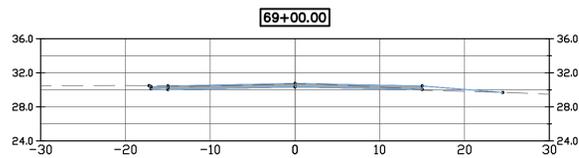
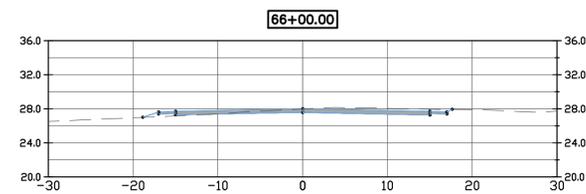
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 8**

SHEET NO:

C-308



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004_GRA09.dwg 2/4/2022 1:46:56 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

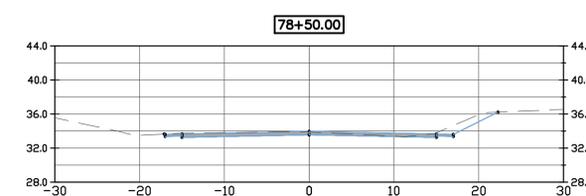
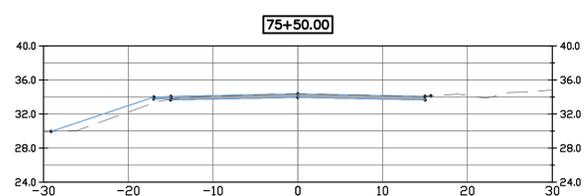
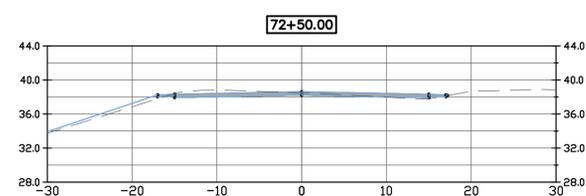
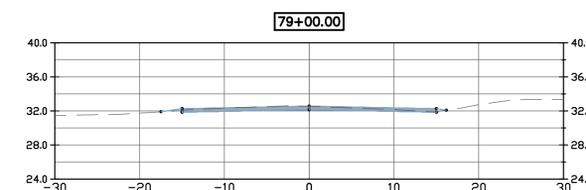
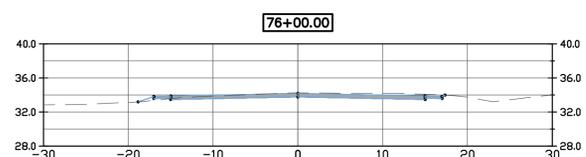
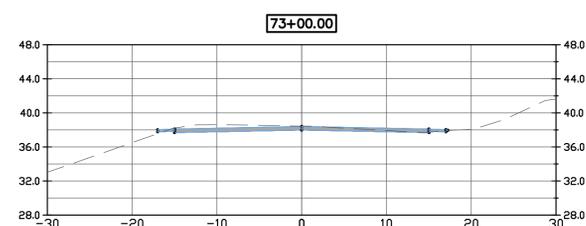
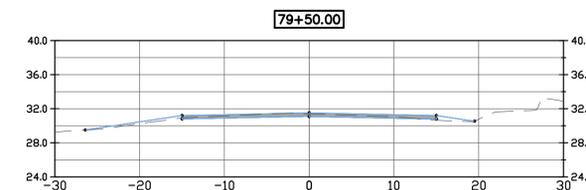
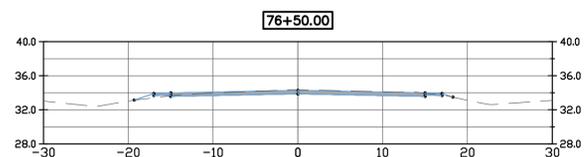
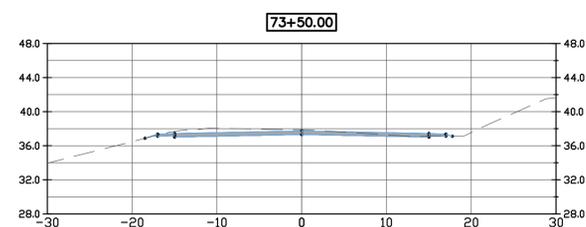
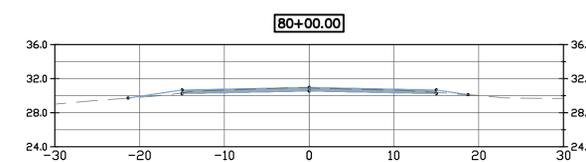
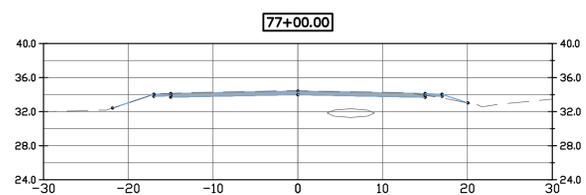
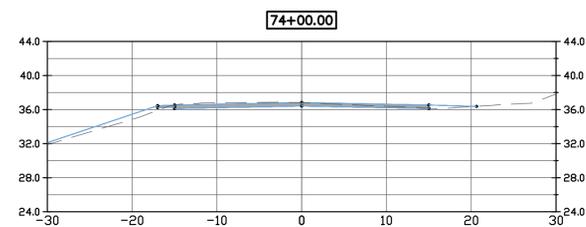
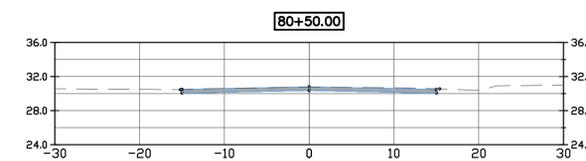
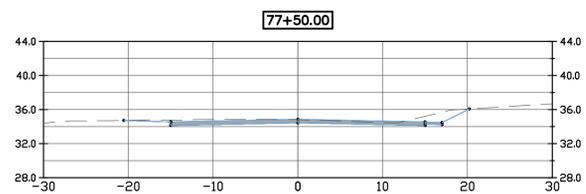
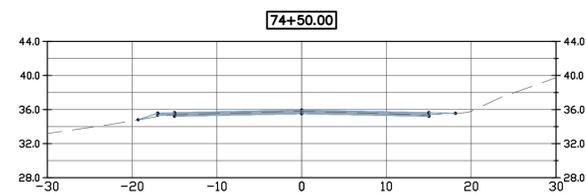
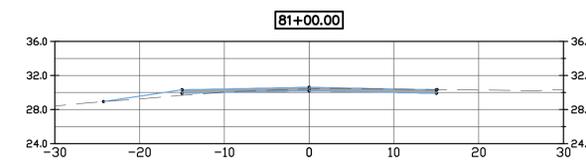
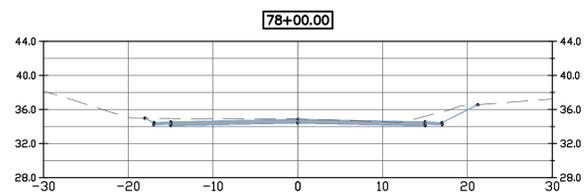
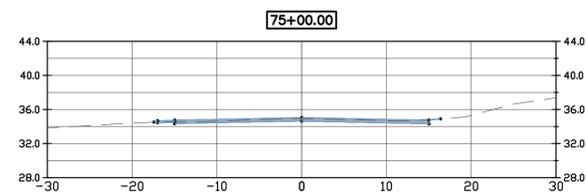
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 9**

SHEET NO:

C-309



M:_Cad Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink rd\DWG\4444-0004 GRAD09.dwg 2/4/2022 1:47:05 PM

DRAFT

REV.	DATE	REVISION DESCRIPTION

DESIGNED BY: PMG
DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

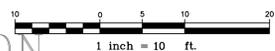
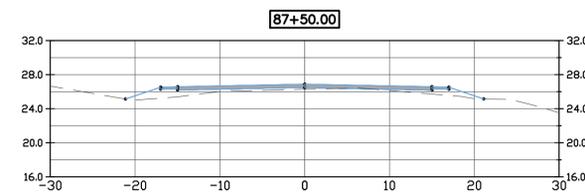
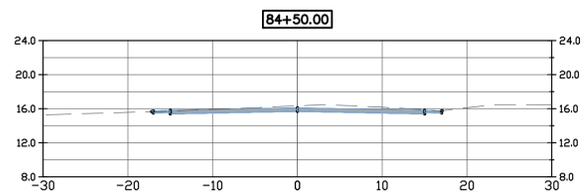
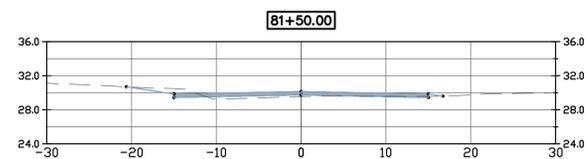
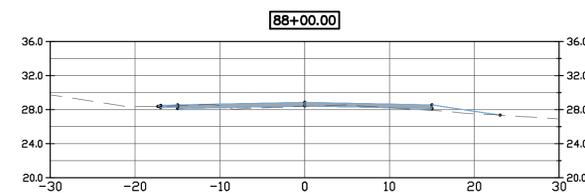
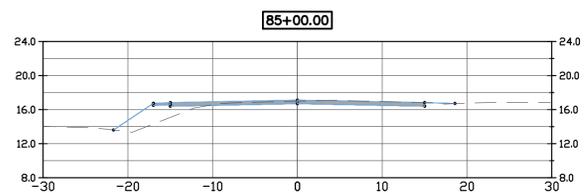
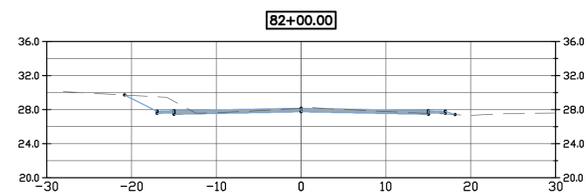
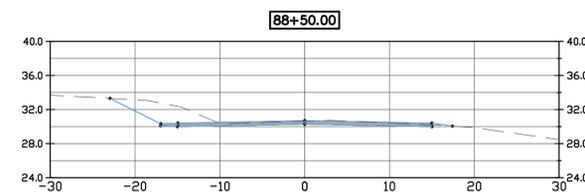
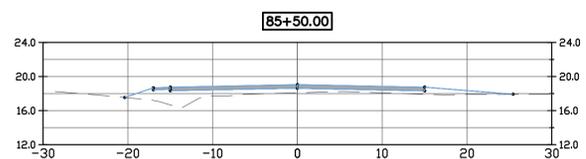
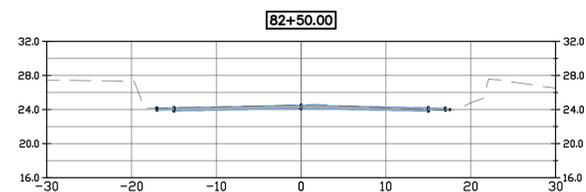
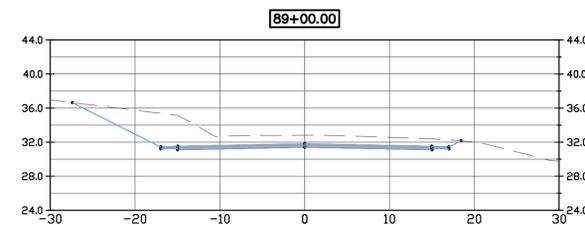
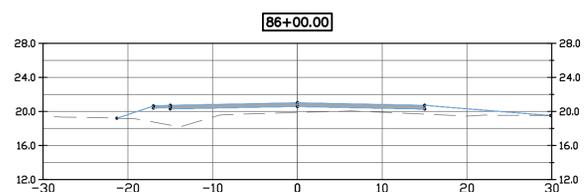
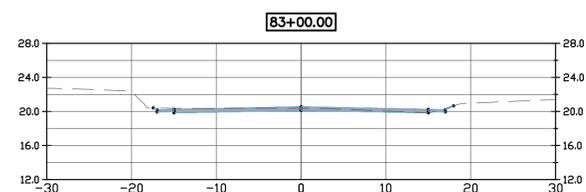
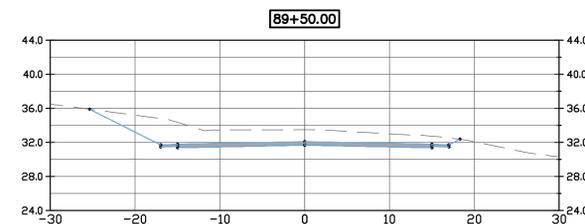
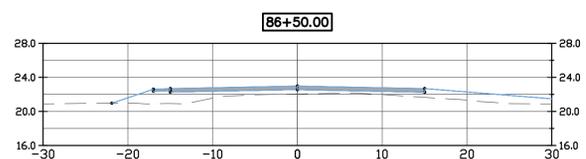
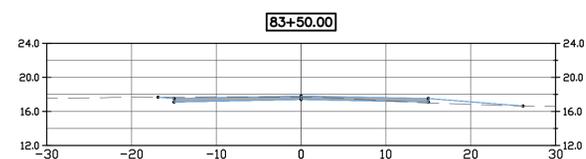
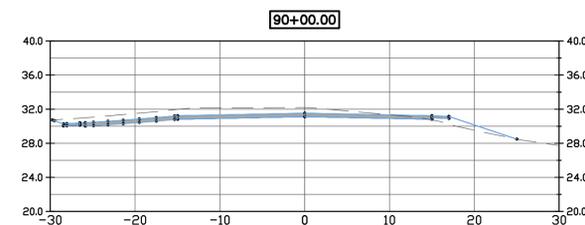
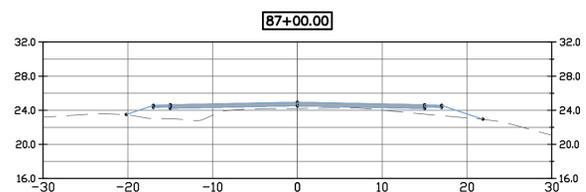
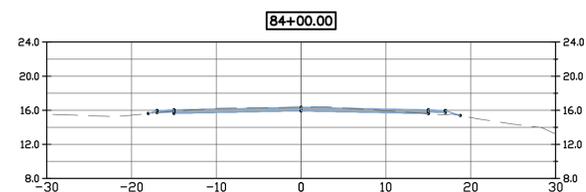
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 10**

SHEET NO:

C-310



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PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

CLIENT:

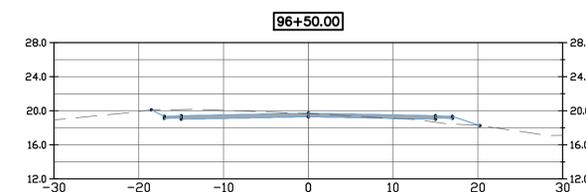
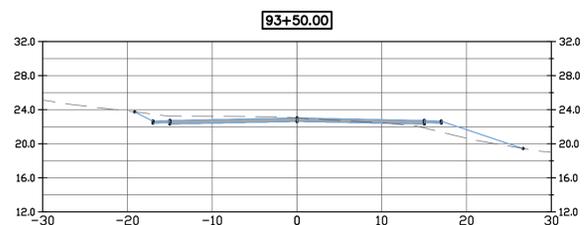
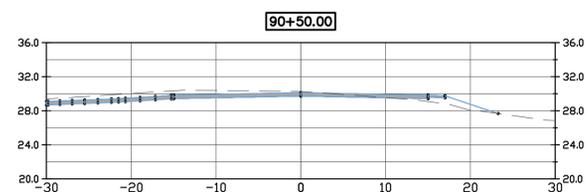
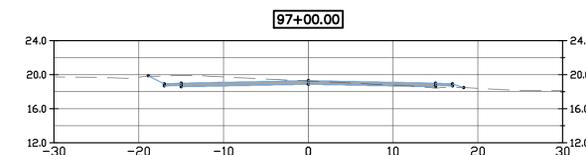
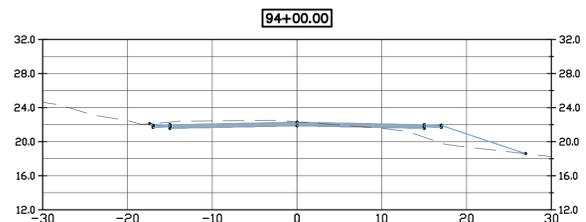
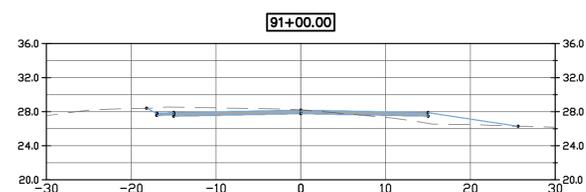
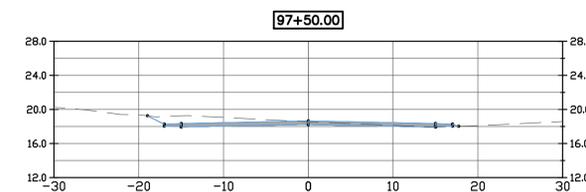
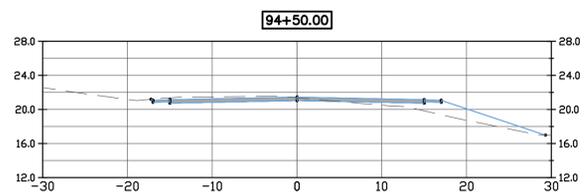
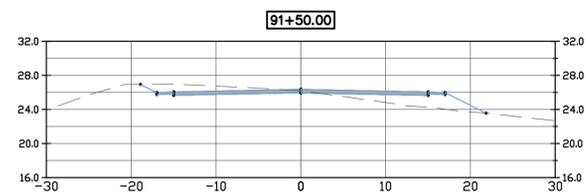
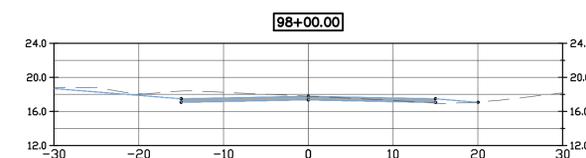
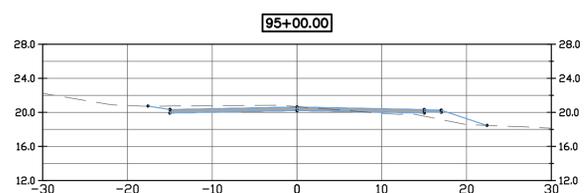
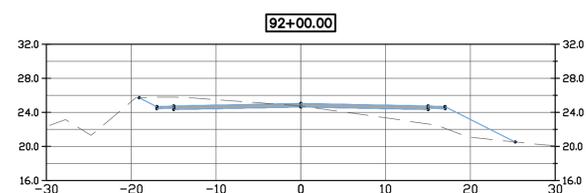
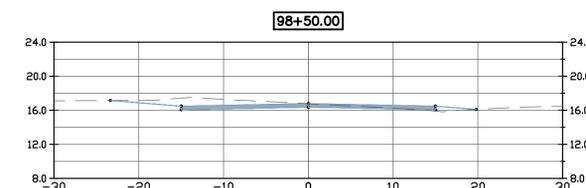
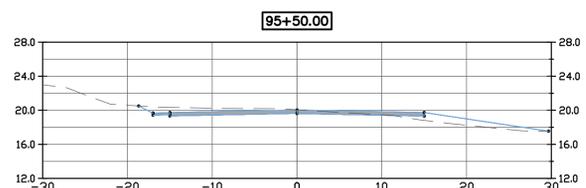
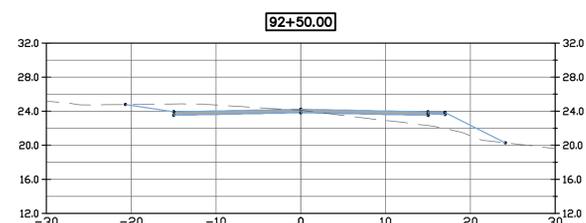
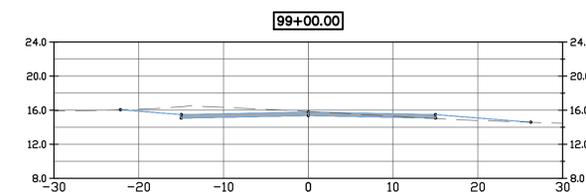
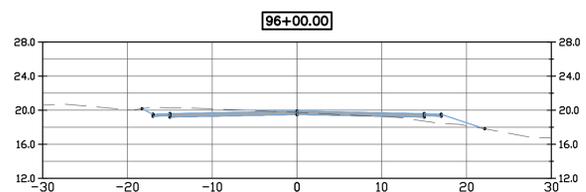
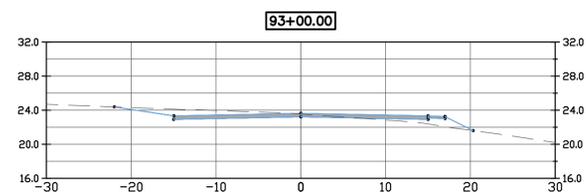
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**SPURWINK ROAD
CROSS
SECTIONS - 11**

SHEET NO:

C-311



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IMPROVEMENTS
SCARBOROUGH, MAINE

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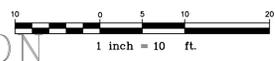
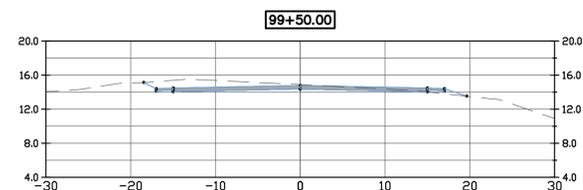
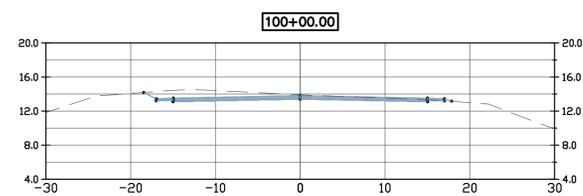
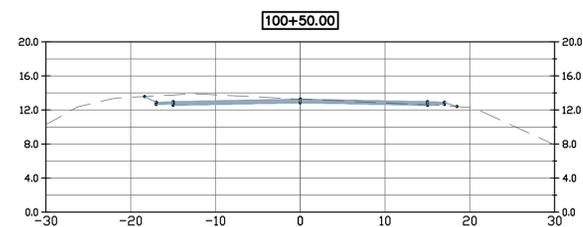
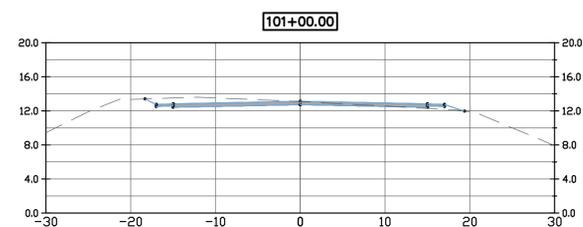
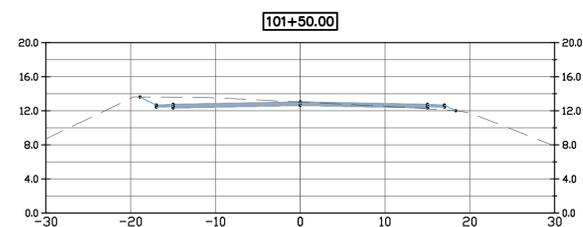
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

SPURWINK ROAD
CROSS
SECTIONS - 12

SHEET NO:

C-312



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50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

DRAFT

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IMPROVEMENTS
SCARBOROUGH, MAINE

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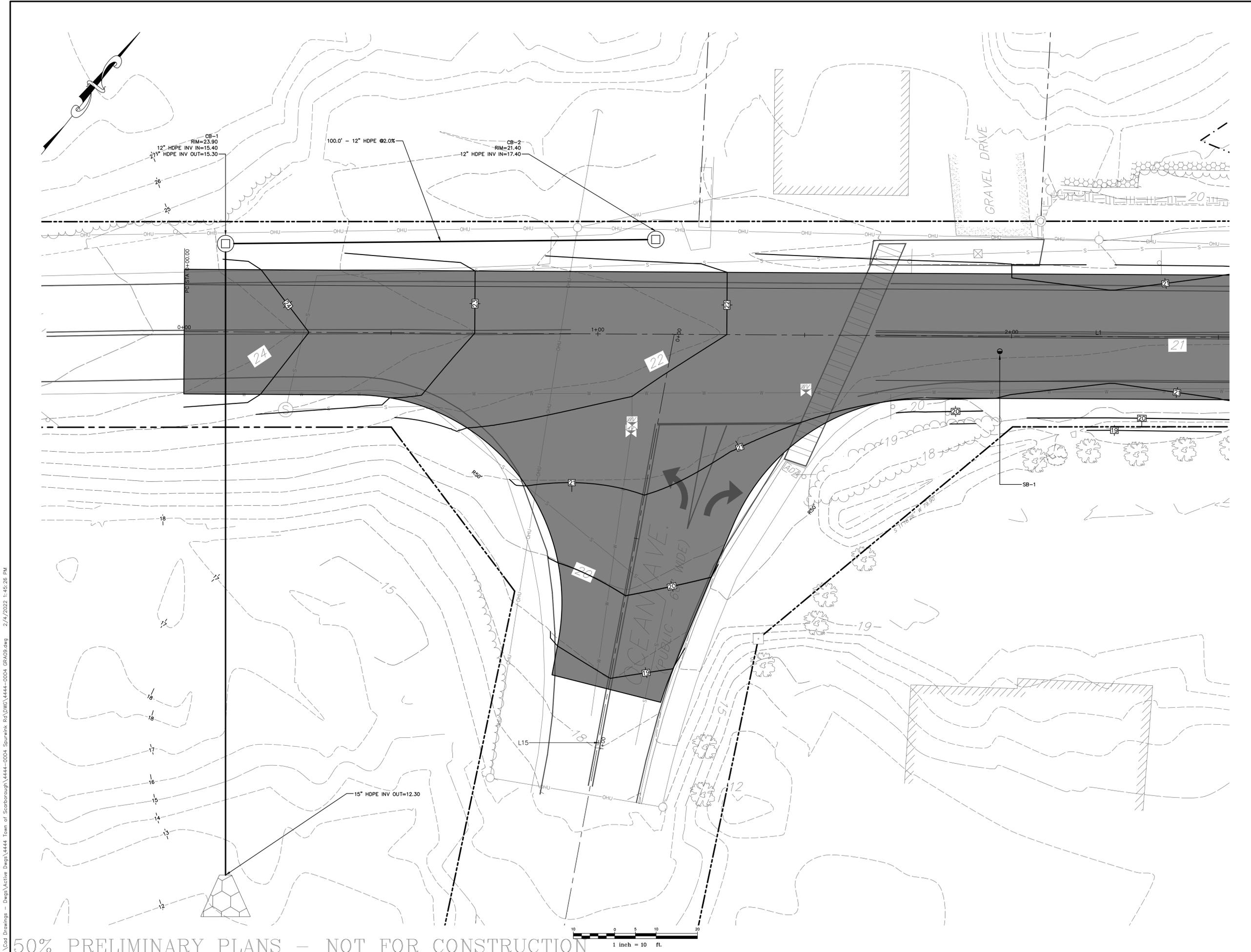
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

**OCEAN AVENUE
INTERSECTION
PLAN**

SHEET NO:

C-401



M:_Code Drawings - Dwg\Active Dwg\4444 Town of Scarborough\4444-0004 Spurwink Rd\DWG\4444-0004 GRA09.dwg 2/4/2022 1:45:26 PM

50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION



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PROJECT NAME:

SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE

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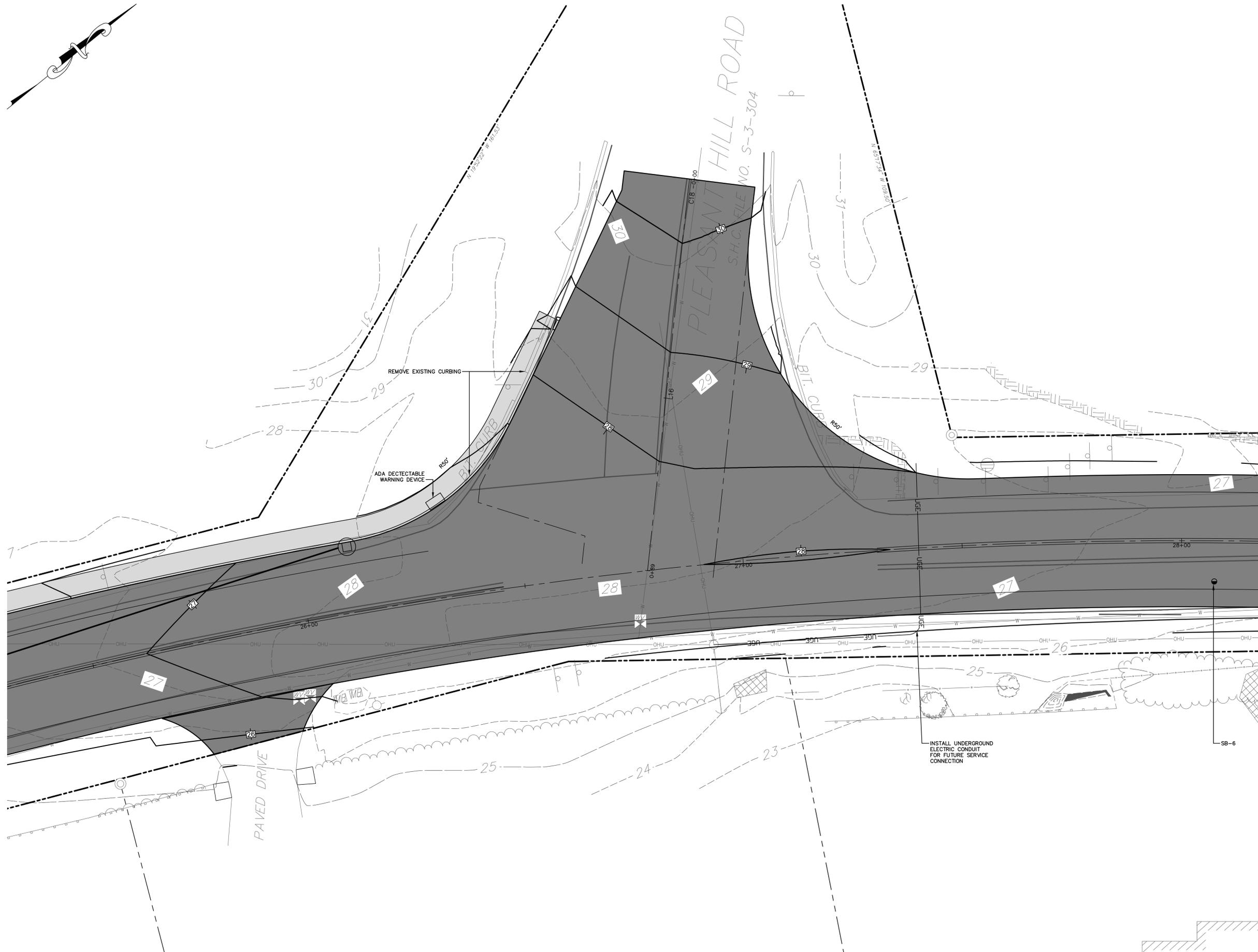
SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE

SHEET TITLE:

PLEASANT HILL
ROAD
INTERSECTION
PLAN

SHEET NO:

C-402



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50% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

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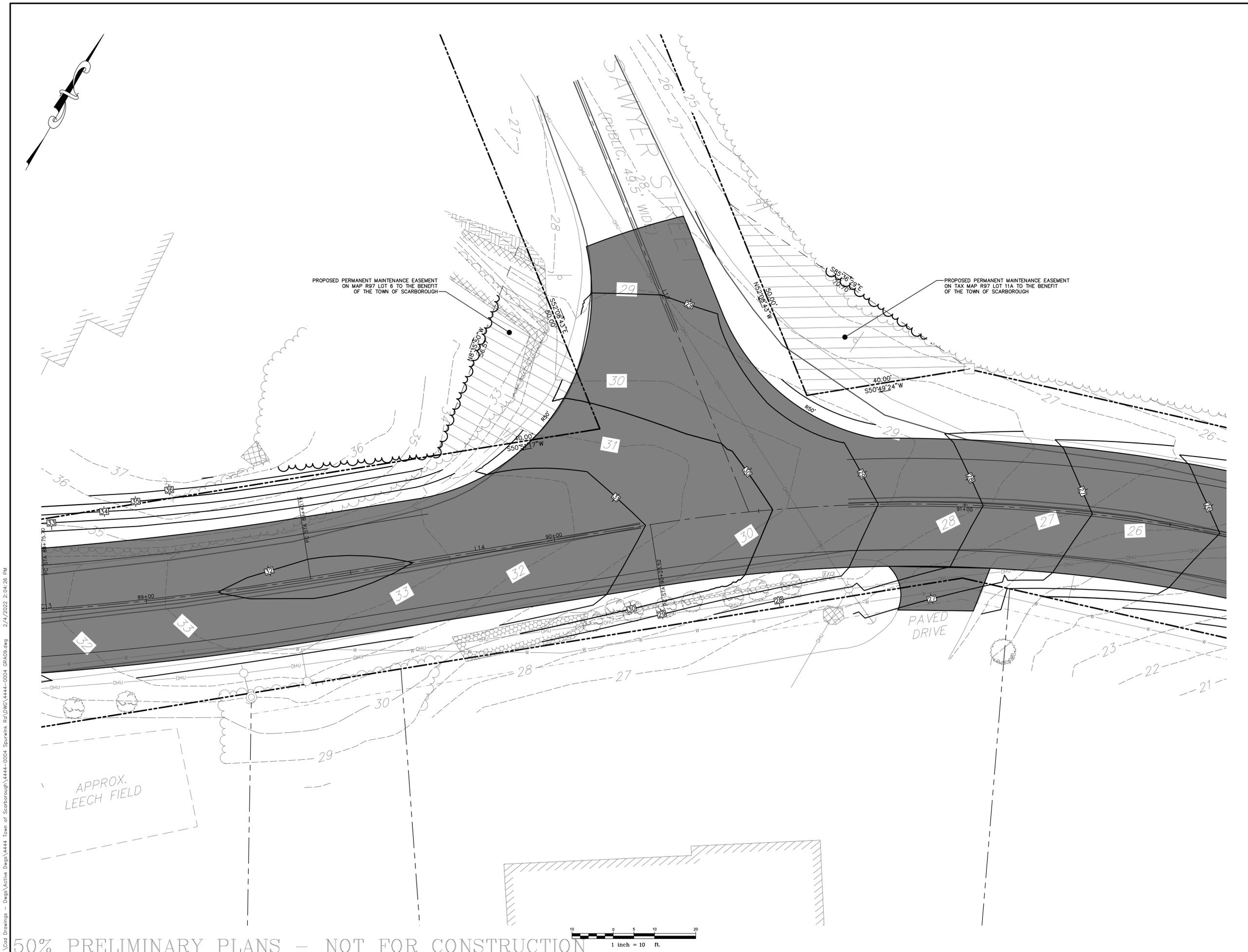
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CHECKED BY: PJC
DATE: 2/4/2022
FILE NAME: 4444-0004 GRA09.dwg

PROJECT NAME:
**SPURWINK ROAD
IMPROVEMENTS
SCARBOROUGH, MAINE**

CLIENT:
**SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE**

SHEET TITLE:
**SAWYER STREET
INTERSECTION
PLAN**

SHEET NO:
C-403



50% PRELIMINARY PLANS – NOT FOR CONSTRUCTION



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EROSION AND SEDIMENTATION CONTROL NOTES

TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES INCLUDE THE USE OF SEDIMENT BARRIERS, 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**
- IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN IN THE SPRING OF 2023 FOLLOWING RECEIPT OF NECESSARY PERMITS.
 - 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.
 - 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.
 - 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.
 - 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.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL AREAS ARE STABILIZED TO THE SATISFACTION OF THE ABOVE PERSONNEL. DESCRIPTIONS OF ACCEPTABLE PERMANENT STABILIZATION FOR VARIOUS COVER TYPES FOLLOWS:
 - FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS 90% COVERAGE OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR KILLING OF THE TOPSOIL.
 - 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.
 - 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.
 - 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.
 - FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.
 - 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

- REMOVAL OF SOD, TREES, BUSHES AND OTHER VEGETATION AND SOIL DISTURBANCE WILL BE KEPT TO A MINIMUM WHILE ALLOWING PROPER SITE DEVELOPMENT.
 - GRUBBINGS AND ANY UNUSABLE TOPSOIL SHALL BE STRIPPED AND REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN AN APPROVED MANNER.
 - 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 (DEPENDENT ON DATE SEEDING) WITHIN 7 DAYS OF FORMATION, OR TEMPORARILY MULCHED IF SEEDING CANNOT BE DONE WITHIN THE RECOMMENDED SEEDING DATES.
 - TEMPORARY DIVERSION BERMS AND DRAINAGE SWALES SHALL BE CONSTRUCTED AS NECESSARY.
 - 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-ERODIBLE COVER. AREAS WITHIN 75 FEET OF WETLANDS SHALL BE TEMPORARILY STABILIZED WITHIN 48 HOURS OR PRIOR TO RAIN EVENT.
 - APPLY HAY OR STRAW MULCH AT A RATE OF 2 TONS PER ACRE, AND ANCHOR AS NECESSARY.
 - 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 SEEDING DATES AND APPLICATION RATES ARE AS FOLLOWS:
- AROSTOOK 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
- 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. AVOID AREAS OF DISTURBED SUBSOIL WITH TOPOIL OR OTHER ORGANIC AMENDMENTS. PROTECT SEEDED AREAS WITH MULCH OR, IF NECESSARY, EROSION CONTROL BLANKETS, AND SCHEDULE SOILING, PLANTING, AND SEEDING SO TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE ESTABLISHMENT IS WELL ESTABLISHED THROUGH THE BARRIERS. IF RE-EROSION OR STABILIZATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL IS EVIDENT.
 - 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 SEED OR WHICH DO NOT OBTAIN A SATISFACTORY GROWTH BY OCTOBER 1 SHALL BE SEED WITH AROOSTOOK RYE OR MULCHED AT RATES PREVIOUSLY SPECIFIED. SEE WINTER CONDITIONS NOTES FOR SEEDING STABILIZATION AFTER NOVEMBER 1.
 - APPLY TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES. MIX TOPSOIL WITH THE SUBSOIL TO A MINIMUM DEPTH OF 6 INCHES.
 - 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.
 - 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
 - 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
 - MULCH ALL AREAS SEED SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH.
 - 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.
 - 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.
 - 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.
 - TEMPORARY CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

C. HOUSEKEEPING

- 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.
- 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 CONTAMINATION THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
- 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.
- DEBRIS AND OTHER MATERIAL, LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER, MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- TRENCH OR FOUNDATION DE-WATERING. TRENCH DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONES 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

- 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 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 DAYS OF THE INSPECTION TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
- 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

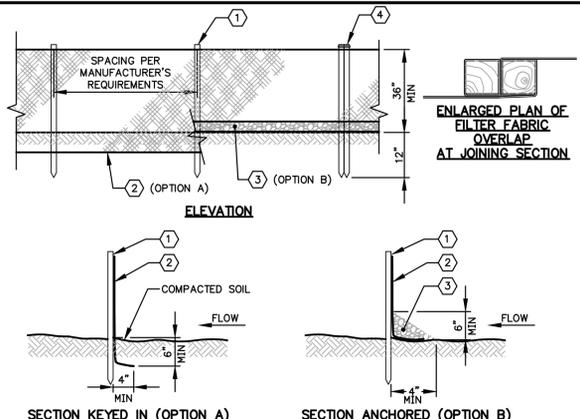
THE WINTER CONSTRUCTION PERIOD TYPICALLY BEGINS IN EARLY NOVEMBER AND ENDS IN MID APRIL. IF A CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER, OR RIPRAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. WINTER EXCAVATION 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.

- NATURAL RESOURCE PROTECTION:** 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 MAINTAIN 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.
- SEDIMENT BARRIERS:** 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.
- MULCHING:** ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL SEED 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 FOUR-INCH DEPTH BEFORE 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.

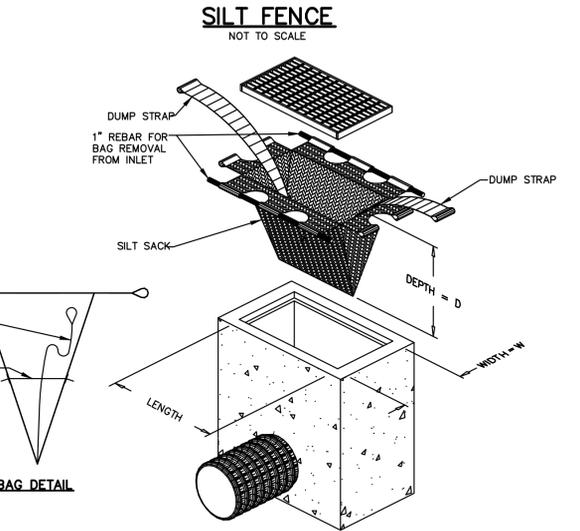
- SOIL STOCKPIILING:** STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STACKING AND RE-ESTABLISHMENT PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED WITHIN 100 FEET FROM ANY REGULATED NATURAL RESOURCE.
- SEEDING:** 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 LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEED 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.

- OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS:** 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.
- OVER-WINTER STABILIZATION OF DISTURBED SLOPES:** ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL SLOPES TO BE VEGETATED MUST BE SEED 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, OR MULCH BY NOVEMBER 15. SEE APPLICABLE SECTIONS UNDER EROSION AND SEDIMENTATION CONTROL NOTES FOR PROPER INSTALLATION METHODS.
- OVER-WINTER STABILIZATION OF DISTURBED SOILS:** BY SEPTEMBER 15, ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15% MUST BE SEED 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.

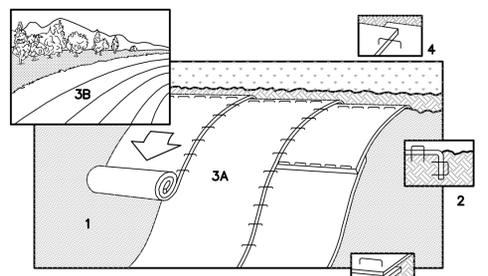
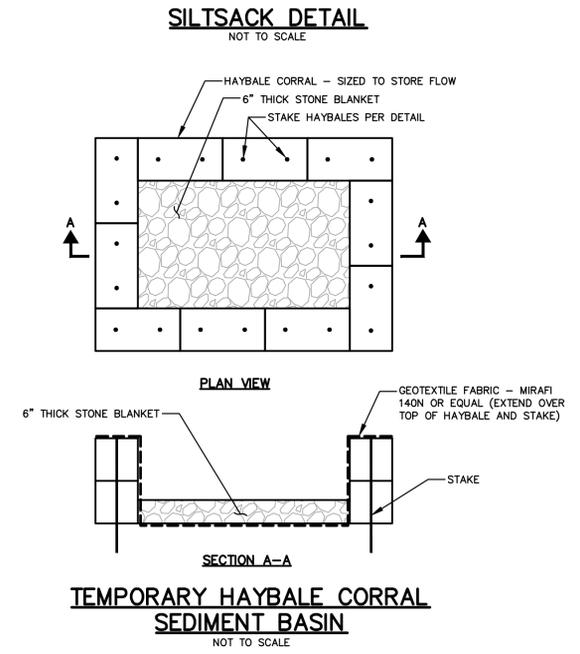
- MAINTENANCE:** MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES AND/OR WEAR SPOTS. AN ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 85% OF AREAS VEGETATED WITH VIGOROUS GROWTH.



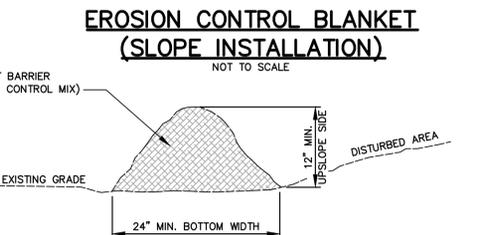
- SECTION KEYED IN (OPTION A)** **SECTION ANCHORED (OPTION B)**
- NOTES:**
- 1.25"x1.25" OAK STAKES EMBEDDED A MINIMUM OF 12" INTO THE GROUND.
 - FILTER FABRIC TO BE SEDIMENTATION CONTROL FABRIC MIRAFI 100X OR EQUIVALENT.
 - 1" CRUSHED STONE ANCHORING MATERIAL.
 - OVERLAP AT JOINING SECTION AS SHOWN. A COUPLER CAN BE AN ACCEPTABLE DEVICE USED TO TIE THE OAK STAKES TOGETHER.
 - 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.



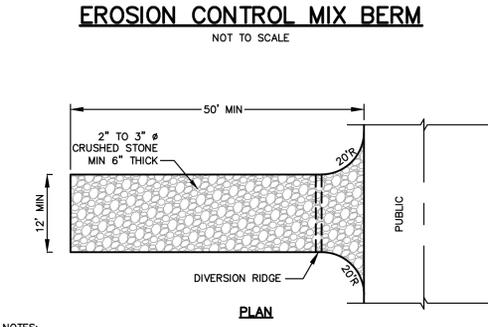
- MAINTENANCE SCHEDULE:**
- EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT.
 - IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2-3 WEEKS.
 - THE YELLOW REINFORCEMENT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE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



- NOTES:**
- REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS. BLANKET TO BE A BIODEGRADABLE DOUBLE NET STRAW MAT.
- INSTALLATION STEPS:**
- 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.
 - 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.
 - ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 - 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.



- IN ORDER FOR EROSION CONTROL MIX TO BE USED IN LIEU OF SILT FENCE IT MUST MEET THE FOLLOWING STANDARDS:**
- THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 50 AND 100%, DRY WEIGHT BASIS.
 - PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MINIMUM OF 70% MAXIMUM OF 85%, PASSING A 0.75" SCREEN.
 - THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
 - SOLUBLE SALTS CONTENT SHALL BE <4.0 mmhos/cm.
 - THE pH SHOULD FALL BETWEEN 5.0 AND 8.0.
 - 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.
 - 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.
 - 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.
 - BARRIER SHALL NOT BE USED ADJACENT TO WETLANDS.
 - REMOVE SEDIMENT DEPOSITS WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
 - WHEN BARRIER IS DECOMPOSED, CLOGGED WITH SEDIMENT, ERODED, OR INEFFECTIVE, IT MUST BE REPLACED OR REPAIRED. THE BARRIER SHOULD BE RESHAPED AS NECESSARY.



- NOTES:**
- USE 2" TO 3" # CRUSHED STONE OR ACCEPTABLE ON-SITE MATERIAL.
 - GEOTEXTILE FILTER (MIRAFI 600X OR APPROVED EQUIVALENT) SHALL BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE.
 - LENGTH - 50' MINIMUM.
 - THICKNESS - NOT LESS THAN 6".
 - PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY INGRESS OR EGRESS.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR LEAKING OF SEDIMENT ON PUBLIC RIGHT-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.
 - WHEN COMPLETE, CONTRACTOR TO REMOVE STONE AND GRADE SUBBASE TO MATCH EXISTING OR PROPOSED GRADES. FINAL TREATMENT AS SHOWN ON PLANS OR OTHERWISE DIRECTED.

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DRAWN BY: PMG
CHECKED BY: PJC
DATE: 2/12/2022
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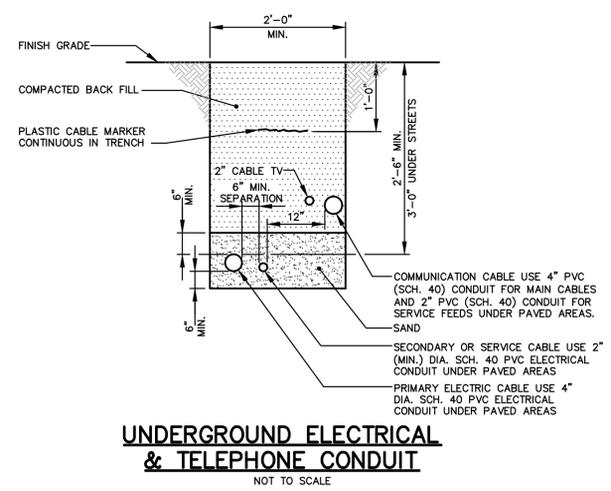
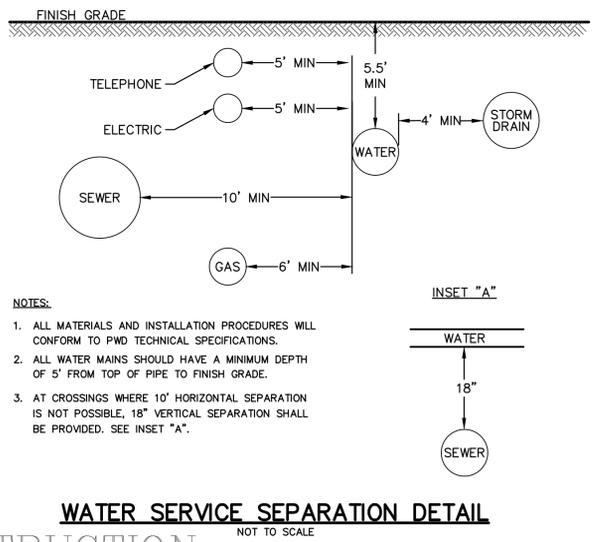
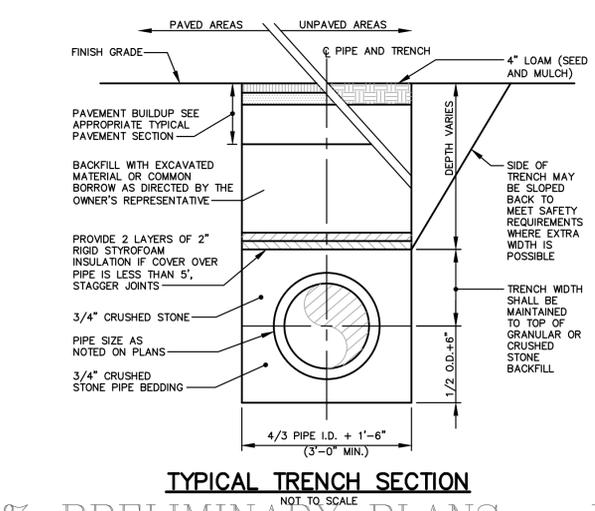
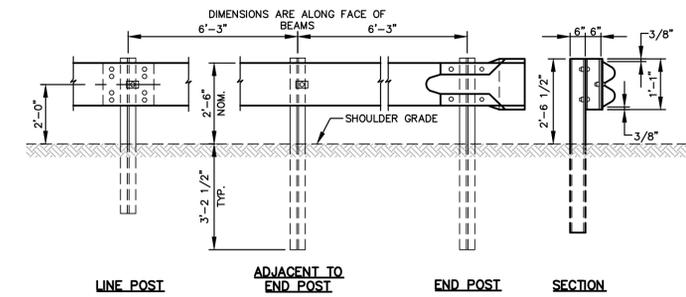
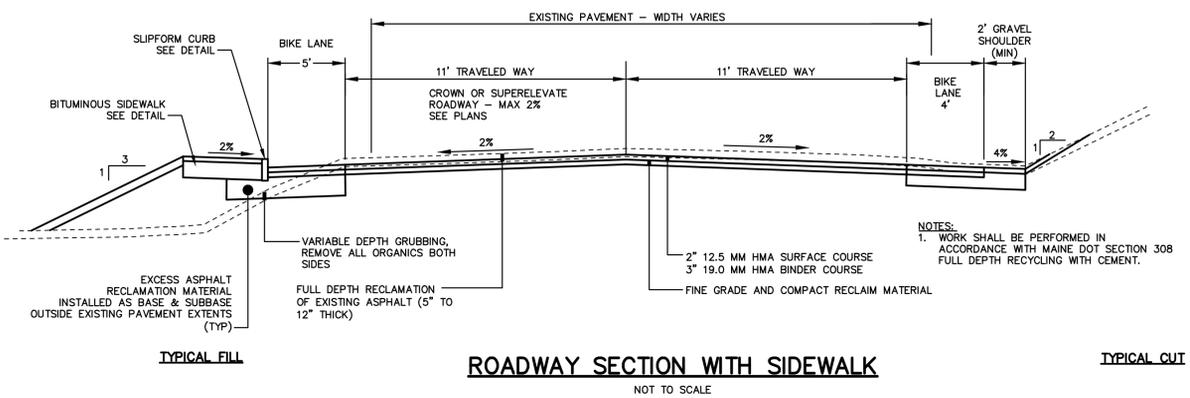
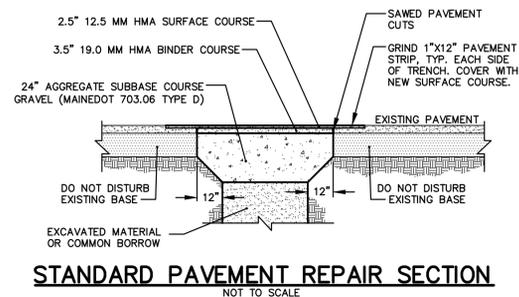
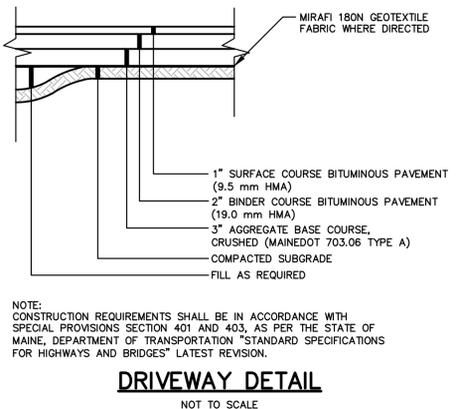
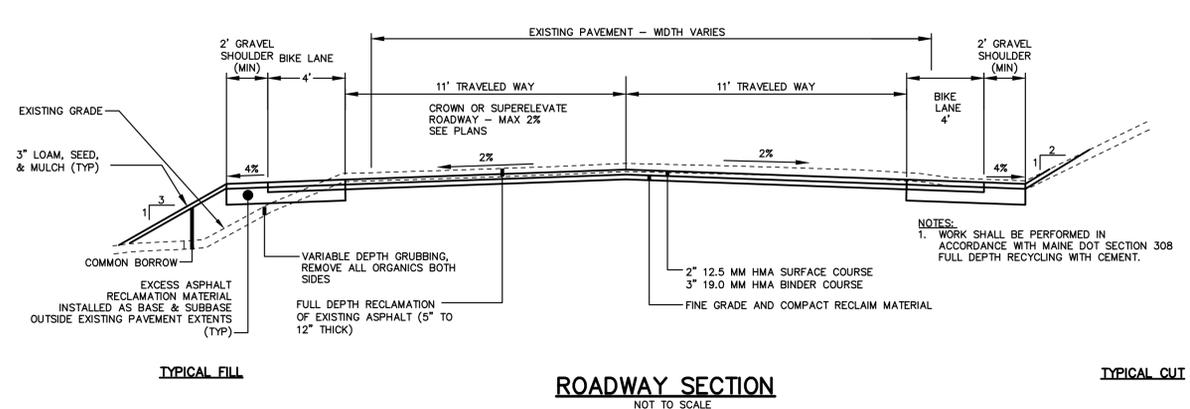
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SCARBOROUGH, MAINE**

CLIENT:
**SCARBOROUGH PUBLIC WORKS
20 WASHINGTON AVENUE
SCARBOROUGH, MAINE**

SHEET TITLE:

EROSION & SEDIMENTATION CONTROL NOTES & DETAILS

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SHEET TITLE:

DETAILS

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SCARBOROUGH, MAINE**

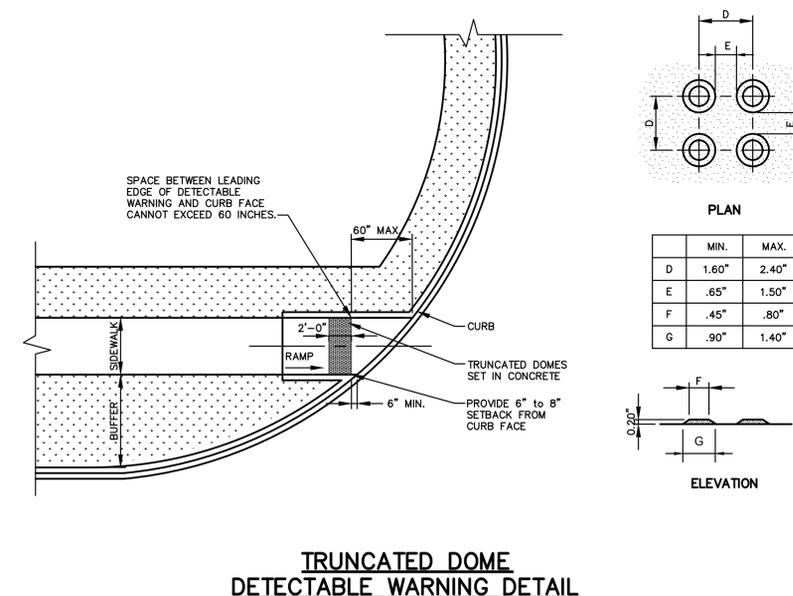
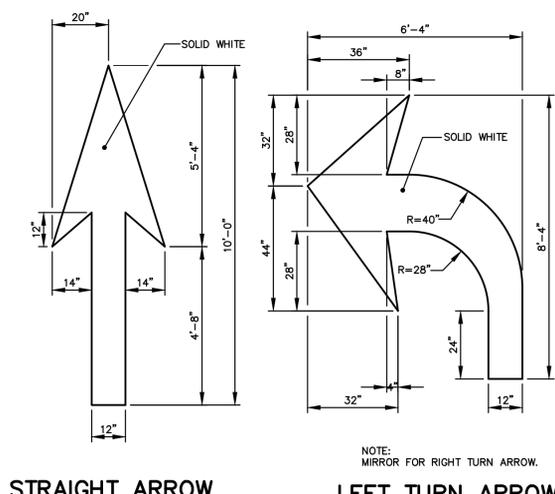
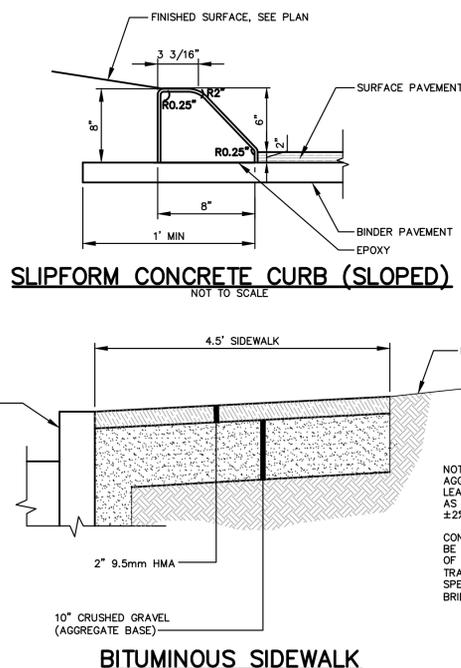
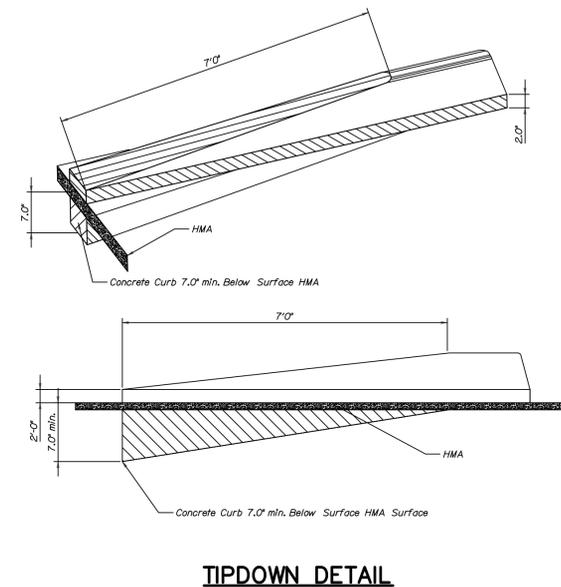
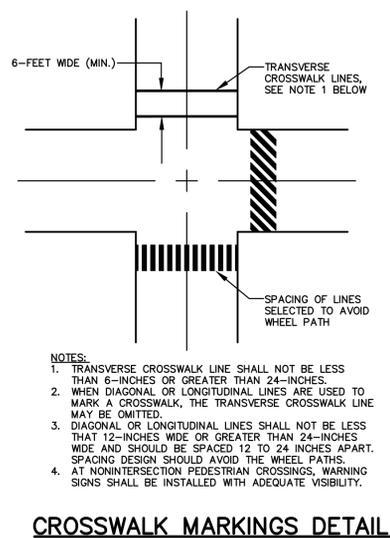
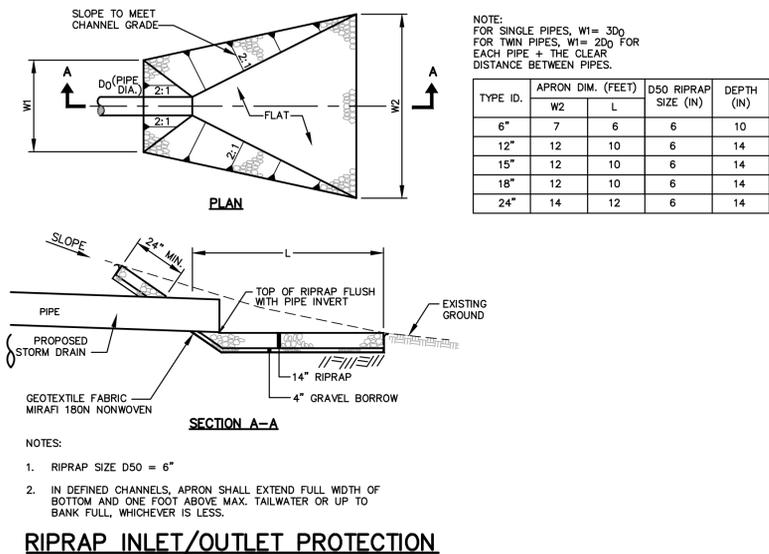
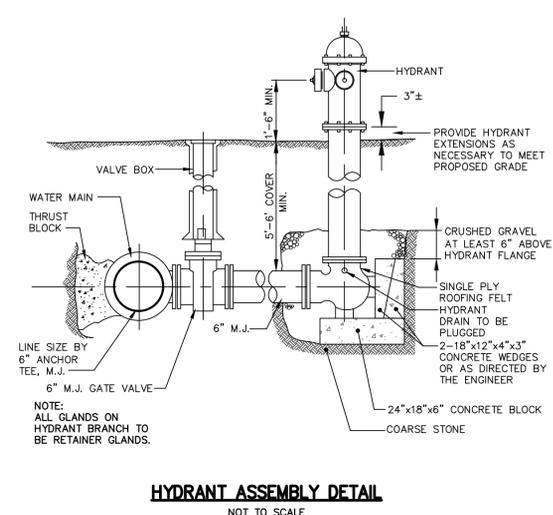
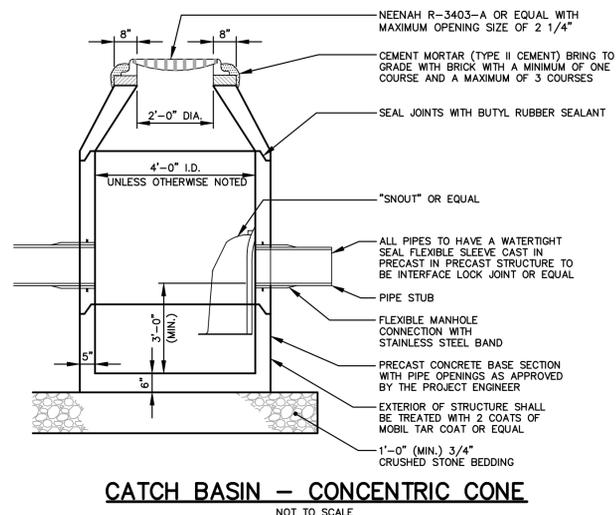
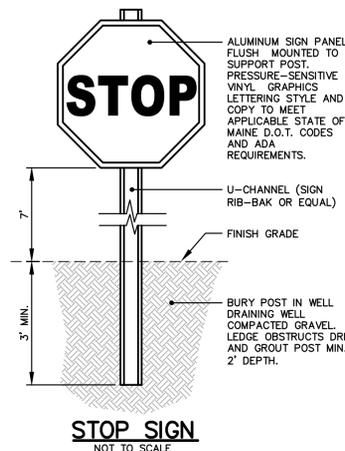
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20 WASHINGTON AVENUE
SCARBOROUGH, MAINE**

SHEET TITLE:

DETAILS

SHEET NO:

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