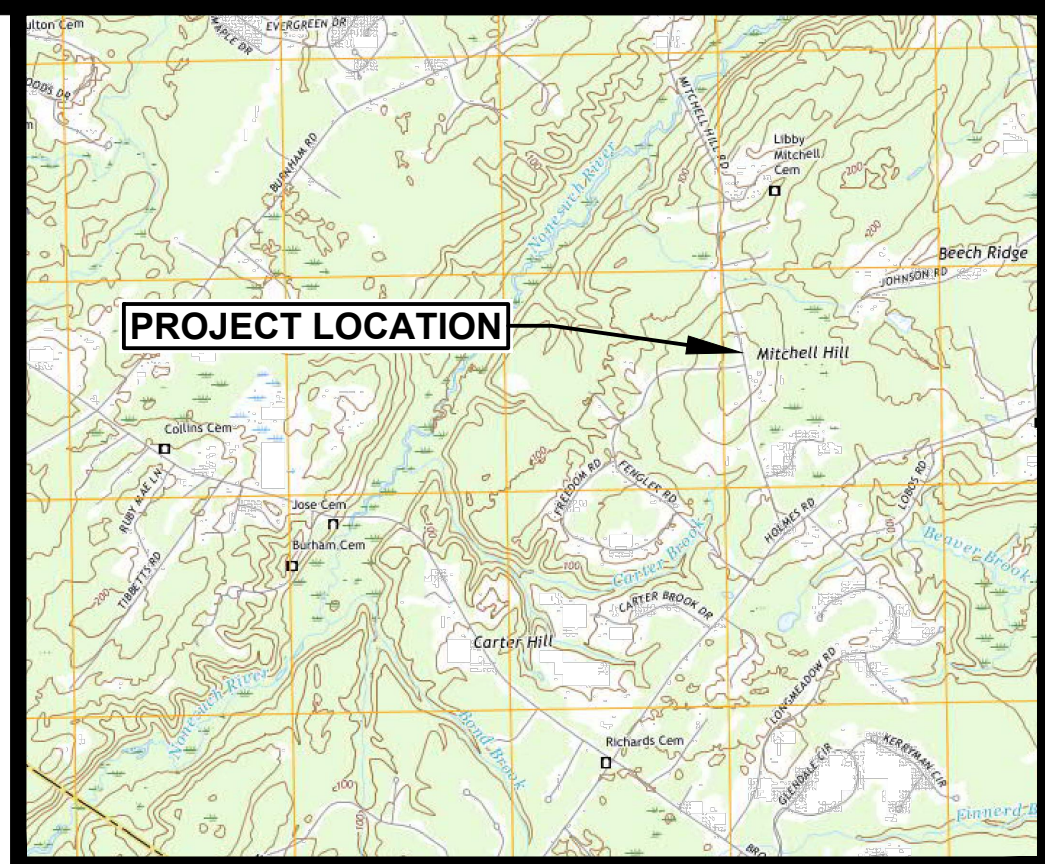
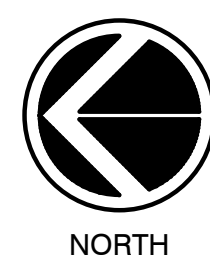


TOWN OF SCARBOROUGH

MITCHELL HILL ROAD RE-CONSTRUCTION

DECEMBER 2022



LOCATION MAP
NOT TO SCALE

PLAN INDEX

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OWNER:

TOWN OF SCARBOROUGH
259 US ROUTE ONE
SCARBOROUGH, MAINE 04074

GEOTECHNICAL ENGINEERING:

SUMMIT GEOENGINEERING SERVICES
173 PLEASANT STREET
ROCKLAND, MAINE 04841

CIVIL ENGINEERING & PERMITTING:

 **Atlantic Resource Consultants**
Engineering Strategies and Solutions
541 US ROUTE ONE, SUITE 21
FREEPORT, MAINE 04032

LAND SURVEYING:

HORIZONS ENGINEERING, INC.
1040 PORTLAND ROAD
SACO, MAINE 04072

ISSUED FOR BID

PLAN REFERENCE:

1. THIS PLAN SET REFERENCES A SURVEY DRAWINGS ENTITLED: RIGHT OF WAY, TOPOGRAPHIC EXISTING CONDITIONS SURVEY OF MITCHELL HILL ROAD, SCARBOROUGH, MAINE, PRODUCED BY HORIZONS ENGINEERING AND DATED DECEMBER 11, 2021 AND INCLUDED HEREIN.

GENERAL NOTES

1. ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND RECORD PLANS. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES ARE IN THE EXACT LOCATIONS SHOWN, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND TAKE SUCH MEASURES CONSIDERED PRUDENT TO PROTECT SUCH UTILITIES DURING AND AFTER CONSTRUCTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, OR RESTORING AND EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. CALL 1-888-DIGSAFE.
2. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL ALL REQUIRED LOCAL, STATE AND FEDERAL APPROVALS HAVE BEEN OBTAINED.
3. THE CONTRACTOR SHALL KEEP A COPY OF ALL PERMIT DOCUMENTS ON SITE FOR THE DURATION OF THE WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ANY AND ALL PERMIT CONDITIONS ASSOCIATED WITH THE PROJECT APPROVALS AND TO ENSURE THAT THE SITE REMAINS IN COMPLIANCE WITH ALL PERMITS ISSUED BY LOCAL, STATE AND FEDERAL AUTHORITIES.
4. USE OF SITE - THE CONTRACTOR SHALL LIMIT USE OF THE SITE TO THOSE AREAS WITHIN THE LIMIT OF WORK. NO WORK SHALL BE UNDERTAKEN OUTSIDE THE LIMITS OF DISTURBANCE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER. THE CONTRACTOR SHALL ENSURE THAT ACCESS IS MAINTAINED TO DRIVEWAYS, AND ENTRANCES SERVING PREMISES ADJACENT TO THE PROJECT SITE.
5. THE CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR UNDERTAKING THE WORK IN A SAFE AND EFFICIENT MANNER, IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. ALL WORK AREAS SHALL BE CLEARLY DELINEATED AND FENCED APPROPRIATELY TO PREVENT UNAUTHORIZED ACCESS. OPERATION OF CONSTRUCTION EQUIPMENT OUTSIDE FENCED AREAS SHALL BE MINIMIZED TO THE EXTENT PRACTICAL. ALL EQUIPMENT OPERATION OUTSIDE OF CONSTRUCTION AREAS SHALL BE ACCOMPANIED BY APPROPRIATE PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL. THE SITE SHALL BE LEFT SECURE AND IN A SAFE AND ORDERLY MANNER AT THE END OF EACH WORK DAY.
6. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND PERFORM ALL WORK NECESSARY TO MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO AND FROM THE SITE DURING CONSTRUCTION.
7. TRAFFIC CONTROL MEASURES, WHERE NECESSARY SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), PUBLISHED BY THE FEDERAL HIGHWAYS ADMINISTRATION.
8. MATERIALS NOTED FOR REMOVAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT A LICENSED FACILITY, AT THE CONTRACTOR'S EXPENSE.
9. MATERIALS NOTED FOR SALVAGE SHALL BE REMOVED AND STOCKPILED FOR THE OWNERS USE AT AN ON-SITE LOCATION TO BE PROVIDED BY THE OWNER. SALVAGED MATERIALS SHALL REMAIN PROPERTY OF THE OWNER.

EARTHWORK NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND PROTECT DOWNSTREAM RECEIVING AREAS AND RESOURCES. THE AREA OF DISTURBANCE SHALL BE KEPT TO THE MINIMUM REQUIRED TO COMPLETE THE WORK AND ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF THE EARTHWORK. EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY AND ON A MINIMUM WEEKLY BASIS AND AFTER STORM EVENTS. NO MORE THAN ONE ACRE SHALL BE DISTURBED AT ONE TIME OR NO LARGER AREA THAN CAN BE MULCHED IN ONE DAY.
2. DEWATERING SHALL BE UNDERTAKEN AS NECESSARY TO MAINTAIN EXCVATIONS IN A DRY AND STABLE CONDITION AND TO PROTECT ADJACENT STRUCTURES. ALL SEDIMENTS FROM TURBID DEWATERING EFFLUENT SHALL BE RETAINED ON SITE USING BEST MANAGEMENT PRACTICES SUCH AS DEWATERING PONDS AND FILTER BAGS.
3. THE SITE SHALL BE GRADED UNIFORMLY TO SMOOTH, EVEN SURFACES, FREE FROM IRREGULAR SURFACE CHANGES, TRIPPING HAZARDS, LOW SPOTS, OR AREAS OF POTENTIAL PONDING. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES AND ELEVATIONS INDICATED ON THE SITE PLANS.
4. EXTERIOR AREAS SHALL BE FURNISHED WITH A MINIMUM OF 6" CLEAN SCREENED LOAM AND SEEDED WITH A NATIVE GRASS MIX (SEE SPECIFICATIONS) WHERE NOT OTHERWISE NOTED.

UTILITY NOTES

1. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION OF THE IMPROVEMENTS.
2. ALL UTILITY COVERS, VALVE BOXES AND CLEANOUTS TO REMAIN SHALL BE ADJUSTED TO CONFORM TO PROPOSED FINISHED GRADES. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT PRICE.
3. ALL UTILITY MAINS AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE GOVERNING UTILITY.
4. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE UNDERTAKEN IN A MANNER THAT MAINTAINS THE INTEGRITY OF THE EXISTING STRUCTURE AND PROVIDES A WATERTIGHT SEAL BETWEEN THE NEW PIPE AND THE STRUCTURE.
5. ALL WORK ON STORM DRAIN MAINS AND ROADSIDE DRAINAGEWAYS ADJACENT TO THE SITE SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE SCARBOROUGH DEPARTMENT OF PUBLIC WORKS

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	BOUNDARY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	DEED LINE/ROW	
	TIE LINE	
	SETBACK	
	EASEMENT	
	SOILS BOUNDARY	
	ZONE LINE	
	ZONE LINE ON PL	
	TP-1	TEST PIT
	MW-2	MONITORING WELL
	B-3	BORING
	REACH	
	TCPATH	
	WATERSHED	
	BUILDING	
	WETLANDS	
	UPLAND	
	EDGE WETLAND SIGN	
	STREAM	
	ROCK OUTCROP	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	GRAVEL ROAD	
	CURB slipform vertical	
	CURB slipform c.c. berm	
	TREELINE	
	CONTOURS	
	SPOT GRADE	
	CHAIN LINK FENCE	
	CHAINLINK FENCE	
	STOCKADE FENCE	
	GUARDRAIL	
	BOLLARD	
	GAS	
	GAS GATE VALVE	
	GAS METER	
	WATER	
	WATER GATE VALVE	
	HYDRANT	
	SEWER	
	FORCE MAIN	
	SEWER MH	
	STORM DRAIN	
	UNDERDRAIN	
	CATCH BASIN	
	DRAINAGE MH	
	CULVERT	
	OVERHEAD UTILITY	
	UNDERGROUND UTILITY	
	TRANSFORMER PAD	
	ELECTRICAL MANHOLE	
	TELEPHONE MANHOLE	
	LIGHT POLE/WALL	
	UTILITY POLE	
	GUY WIRE	
	EC. BLANKET	
	FILTER BARRIER	
	RIPRAP	
	CHECK DAM	
	SILT SACK	

ISSUED FOR BID

			MITCHELL HILL ROAD SCARBOROUGH		 <div>Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050</div>
			ROAD RE-CONSTRUCTION		
			GENERAL NOTES		
			TOWN OF SCARBOROUGH 259 U.S. ROUTE ONE SCARBOROUGH, MAINE 04074		
REV	DATE	DESCRIPTION			
REVISIONS					
			DRAWN: MPV/ADJ		DATE: SEPTEMBER 2021
			DESIGNED: ADJ		SCALE: N.T.S.
			CHECKED: ADJ		JOB NO. 20-028
			FILE NAME:		
			SHEET: C-001		



Project Name: Roadway Evaluation				Probe Number: 21350		
Location: Scarborough, Maine				Date: 10/5/21		
Boring Number	Station	Pavement Thickness (inches)*	Roadway Base Thickness (inches)	Roadway Base Description	Subgrade Description	Sampling Depth / Recovery (inches)
MITCHELL HILL ROAD						
MB-1	0+00	4	18	Brown SAND, some to little Gravel, little Silt, compact, damp, SW-SM	Rock in tip of sampler. Gravel punch refusal at 26" on probable cobble or boulder.	26 / 26
MB-2	5+00	4 / 4*	15 +/-	Brown SAND, some Gravel, little Silt, compact, damp, SW-SM	Mottled light brown medium-fine SAND, little Silt and Gravel, SM	36 / 30
MB-3	10+00	6 / 2*	12	Brown SAND, some Gravel, little Silt, loose, damp, SW-SM	Olive brown and mottled SAND, little Silt and Gravel, SM	36 / 24
MB-4	15+00	6	12	Brown SAND, some Gravel, little Silt, loose, damp, SW-SM	Additional fill: 9" light brown SAND, trace Silt and Gravel, SP. Overlying trace native at tip of sampler. Olive brown and mottled SAND, little Silt and Gravel, SM	36 / 28
MB-5	19+75	6 / 2*	15	Brown SAND, some Gravel, little Silt, compact, damp, SW-SM	Olive brown and mottled Gravelly SAND, some to little Silt, dense, damp, SM over possible soft weathered rock. Probe to 5', no refusal.	36 / 32
MB-6	21+75	6 / 2*	15	Brown Gravelly SAND, little Silt, compact, damp, SW-SM	Olive brown and mottled Gravelly SAND, some to little Silt, dense, moist to wet, SM at 2.5'. Auger refusal at 4.3' on bedrock.	36 / 32
MB-7	28+00	5 / 1*	12	Brown SAND, little Gravel and Silt, compact, damp, SW-SM	Olive brown and mottled Gravelly SAND, some to little Silt, dense, damp, SM	36 / 32
MB-8	33+00	6 / 1*	12	Brown SAND, little Gravel and Silt, compact, damp, SW-SM	Additional fill: 9"+ Light brown SAND, trace to little Silt and Gravel, SP to SP-SM. No native subgrade encountered.	36 / 28
MB-9	38+25	6	18	Brown SAND, some Gravel, little Silt, compact, damp to moist, SW-SM	Heavily mottled interface with native. Olive gray to brown fine SAND-SILT, trace Gravel, loose, moist to wet, SM-ML	36 / 30
MB-10	43+00	7	15	Brown SAND, some Gravel, little Silt, compact, damp, SW-SM	Additional fill: 10"+ Light brown med-fine SAND, trace Silt and Gravel, SP. No native subgrade encountered.	36 / 32
MB-11	48+00	7 / 2*	15	Brown SAND, some Gravel, little Silt, compact, damp, SW-SM	No native subgrade encountered. Probe to 5', no refusal.	36 / 26
MB-12	49+00	7	12	Brown SAND, some Gravel, little Silt, compact, damp, SW-SM	Olive brown and mottled SAND, some Silt and Gravel, SM. Probe refusal at 3.4' on bedrock.	36 / 30
MB-13	54+00	7	18	Brown SAND, some Gravel, little Silt, compact, damp, SW-SM	Additional fill: 4"+ Light brown med-fine SAND, trace Silt and Gravel, SP. No native subgrade encountered. Probe to 5', no refusal.	36 / 29

1 of 2
173 Pleasant Street, Rockland, Maine, 04841 (207) 318-7761
145 Lisbon Street (PO Box 7216), Lewiston, Maine, 04241, (207) 576-3313



Project Name: Roadway Evaluation			Project Number: 21350		
Location: Mitchell Hill Road, Scarborough, ME			Date: 10/5/21		
LEDGE PROBE SUMMARY TABLE					
	EXPLORATION NUMBER	STATION	APPROX. SURFACE ELEVATION (ft)	BEDROCK REFUSAL DEPTH (ft)	APPROX. BEDROCK ELEVATION (ft)
Segment 1	MB-5	19+75	172	5, NR	N/A
	MP-1	20+25	174	3.0	171.0
	MP-2	20+75	176	5, NR	N/A
	MP-3	21+25	178	5.0	173.0
	MB-6	21+75	181	4.3	176.7
	MP-4	22+25	183	5, NR	N/A
	MP-5	22+75	185	3.8	181.2
Segment 2	MB-11	48+00	129	5, NR	N/A
	MP-6	48+50	131	3.4	127.6
	MB-12	49+00	134	5, NR	N/A
	MP-7	49+50	136	5, NR	N/A
Segment 3	MB-13	54+00	147	5, NR	N/A
	MP-8	54+50	151	5, NR	N/A
	MP-8A	54+75	154	3.0	151.0
	MP-9	55+00	155	2.8	152.2
	MP-9A	55+25	157	3.3	153.7
	MP-10	55+50	157	6.1	150.9
	MP-10A	55+75	157	8.4	148.6
	MB-14	56+00	157	5.0	152.0
	MP-11A	56+25	157	5.8	151.2
	MP-11	56+50	156	2.1	153.9
	MP-12	57+00	151	10, NR	N/A
	MP-13	57+50	146	6.3	139.7
	MB-15	58+00	139	3.5	135.5
	MP-14	58+50	131	4.3	126.7

- NOTES:
- 1.) Ledge probes were performed by Summit Geoengineering Services (SGS) using a truck mounted Power Probe 9630 Pro on September 15, 2021. Locations of the ledge probes are indicated above by station number and shown on the corresponding Exploration Location Plan. Probe locations were concentrated on areas of potential new culverts and road cuts as indicated by Atlantic Resource Consultants. These areas are grouped into 3 segments shown above; Segment 1 = blue, Segment 2 = orange, Segment 3 = green.
- 2.) Ledge probes were advanced to a depth of 5 to 10 feet or refusal using a combination of 2.5" solid stem augers and direct push probe rods. All refusal depths noted above are assumed to be on bedrock. NR = No Refusal encountered to the depth indicated. N/A = Not Applicable.
- 3.) Surface elevations were estimated to the nearest foot based on 1-foot contours provided on the Road Re-Construction Plan & Profile provided by Atlantic Resource Consultants. Refusal depths were measured to the nearest tenth of a foot from the ground surface. Corresponding bedrock elevations are approximate based on accuracy of surface elevations.
- 4.) Some ledge probes were performed at test boring locations (with sampling), as indicated by MB, shown above in bold. The remainder of ledge probes are labeled as MP, where only a probe was conducted, no samoline.

145 Lisbon Street (PO Box 7216) Lewiston, Maine 04243, (207) 576-3313
173 Pleasant Street Rockland, Maine 04841, (207) 318-7761



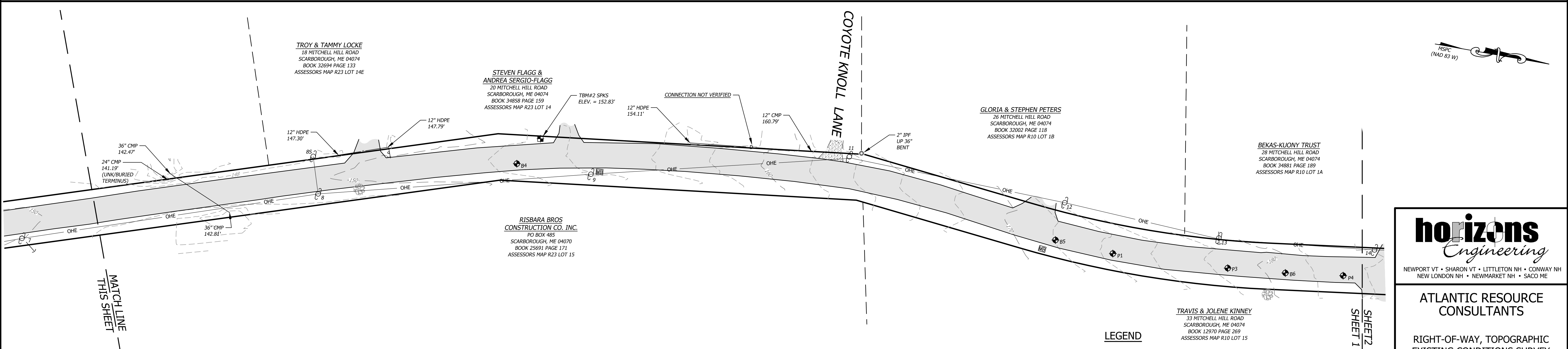
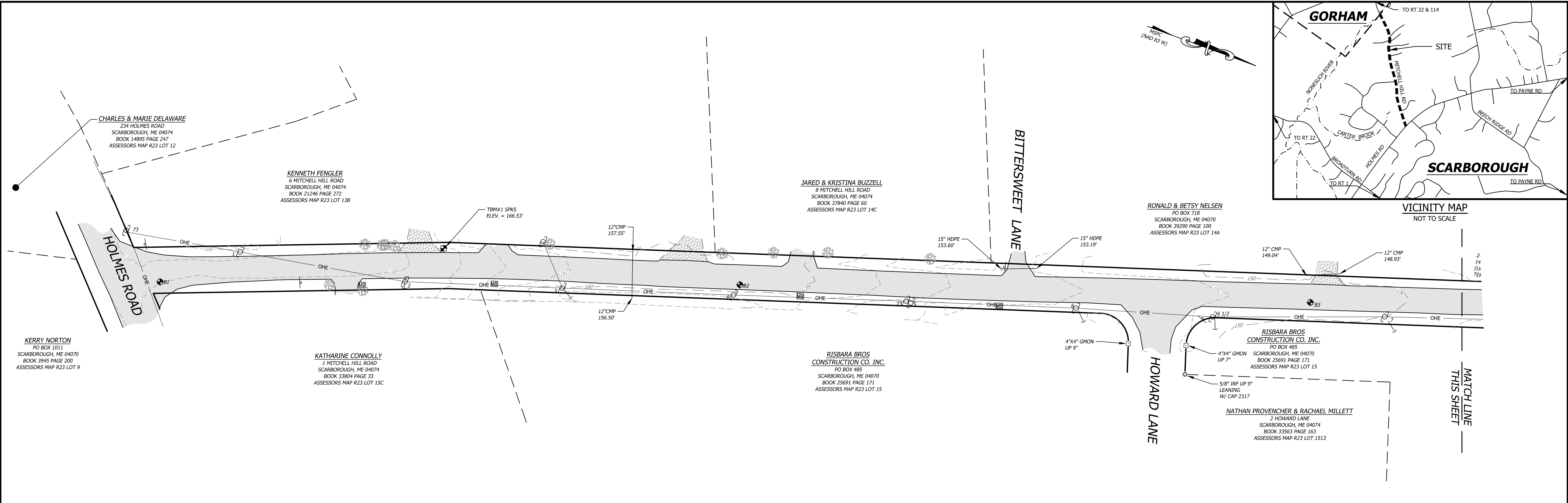
Project Name: Roadway Evaluation				Probe Number: 21309		
Location: Scarborough, Maine				Date: 10/5/21		
TEST BORING SUMMARY TABLE						
Boring Number	Station	Pavement Thickness (inches)*	Roadway Base Thickness (inches)	Roadway Base Description	Subgrade Description	Sampling Depth / Recovery (inches)
MITCHELL HILL ROAD						
MB-14	56+00	13	6	Brown Gravelly SAND, little Silt, compact, damp, SW-SM	Miscellaneous fill: Brown SAND and SILT mixed with brick. Overlying native: Light olive brown SILT, some fine Sand, trace Clay and Gravel, firm, moist, ML. Probe refusal at 5' on bedrock.	36 / 35
MB-15	58+00	7	9	Brown SAND, some Gravel and Silt, compact, damp, SM	Additional fill: Light brown SAND, little Silt and Gravel, compact, damp to moist, SP-SM. Mottled interface over native till: Olive brown SAND, some Silt and Gravel, SM. Probe refusal at 3.5' on bedrock.	36 / 33
MB-16	62+00	10	10	Brown SAND, some Gravel, some to little SILT, loose to compact, damp, SM	Pushed cobble, rock pieces in tip of sampler. No native subgrade encountered.	36 / 21
MB-17	66+00	7	9	Brown SAND, some Gravel, some to little SILT, loose to compact, damp, SM	Gray Silty SAND, little Gravel, moist to wet, SM	36 / 24

- NOTES:
1. Borings were performed using a truck mounted Power Probe 9630 Pro on September 15, 2021. Borings were advanced using 3.5-inch direct push sampling (gravel punch sampler) to 3 feet. Sampling depth/recovery column above indicates how many inches of soil were recovered from pushing the sampler to 3 feet; i.e. 36/32 indicates 32 inches of soil were pulled up in the sampler after advancing the punch to a depth of 36 inches.
2. Bold text descriptions in the roadway base column indicate where gradations were performed on "gravel" samples and soil was classified in accordance with USCS based on gradation results.
3. Ledge probes were performed at borings MB-5, MB-6, and MB-11 through MB-15 to a depth of 5 feet or refusal. Refusal depths are noted in the subgrade description column. Eighteen additional ledge probes were performed along the roadway to evaluate bedrock depth. Results of all probes are summarized on the Ledge Probe Summary Table.
4. Groundwater was encountered at a depth of 2.5 feet in boring MB-6. Moist to wet subgrade conditions were observed in several other borings as noted in the subgrade description column.
5. *Pavement thickness represents thickness of newer bituminous surface pavement over thickness of old tar or reclaim pavement layer. The sum of the two numbers is considered the total pavement thickness. i.e. (4/4) represents 4 inches new pavement over 4 inches tar/reclaim with a total thickness of 8 inches.

2 of 2
173 Pleasant Street, Rockland, Maine, 04841 (207) 318-7761
145 Lisbon Street (PO Box 7216), Lewiston, Maine, 04243, (207) 576-3313

ISSUED FOR BID

			MITCHELL HILL ROAD SCARBOROUGH			Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050	
			ROAD RE-CONSTRUCTION			DRAWN: MPV/ADJ	DATE: SEPTEMBER 2021
			BORING INFORMATION			DESIGNED: ADJ	SCALE: N.T.S.
			TOWN OF SCARBOROUGH 259 U.S. ROUTE ONE SCARBOROUGH, MAINE 04074			CHECKED: ADJ	JOB NO. 20-028
REV	DATE	DESCRIPTION			FILE NAME:		
REVISIONS					SHEET: C-002		



GENERAL NOTES

- THE INTENT OF THIS PLAN IS TO SHOW AND DEFINE THE EXISTING RIGHT-OF-WAY BASED ON A FIELD SURVEY AND EXISTING CONDITIONS OF MITCHELL HILL ROAD FROM THE HOLMES ROAD TO THE SCARBOROUGH-GORHAM TOWN LINE FOR THE DESIGN AND CONSTRUCTION OF FUTURE WORK. THIS IS NOT A BOUNDARY SURVEY OF THE ABUTTING LOTS, LOT LINES SHOWN WERE TAKEN FROM RECORD INFORMATION AND THE TOWN OF SCARBOROUGH'S TAX ASSESSOR DATABASE.
- THE BEARINGS SHOWN HEREON REFER TO THE MAINE STATE PLANE COORDINATE SYSTEM (NAD83). THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THIS PLAN IS BASED ON A FIELD SURVEY COMPLETED IN SEPTEMBER OF 2021 WITH CARLSON BRX6 RTK SURVEY GRADE GPS RECEIVERS, A LEICA TS13 ROBOTIC TOTAL STATION AND CARLSON RT4 & SURVEYOR 2 DATA COLLECTORS.
- UNDERGROUND UTILITIES SHOWN ARE BASE ON VISUAL ABOVE GROUND FIELD EVIDENCE AND GIS DATA. ALWAYS CALL DIGSAFE BEFORE YOU DIG.
- MITCHELL HILL ROAD WAS REDEFINED BY GERALD PILLSBURY, LAND SURVEYOR AND ACCEPTED BY THE TOWN OF SCARBOROUGH AS 40-FEET WIDE IN 1946. THE RIGHT OF WAY LIMITS SHOWN HEREON WERE RETRACED IN PART ON FOUND MONUMENTS DEPICTED ON PLANS REFERENCING THE 1946 RE-ALIGNMENT, AND ON THE CENTERLINE OF THE EXISTING TRAVELED WAY.
- TOWN LINE SHOWN FOR THE TOWN OF SCARBOROUGH & GORHAM IS APPROXIMATE AND BASED ON REFERENCE PLAN 'K'.

PLAN REFERENCE

(A) "PROPOSED ERICKSON LOT." DATED APRIL 5, 1986 AND PREPARED BY PETER A. WEBBER, PLS. C.C.R.D. PB:154 PG:28.

(B) "STANDARD BOUNDARY SURVEY, PLAN OF PROPERTY FOR STEPHEN J. KENNEY & SUZANNE B. KENNY." DATED MAY 1988 AND PREPARED BY JOHN P. HORNE. C.C.R.D. PB:172 PG:48.

(C) "PLAN PREPARED FOR LOUISE F. ZACHOW & JULIE LANGELLA." DATED SEPTEMBER 1989 AND PREPARED BY REED SURVEYING, INC. C.C.R.D. PB:192 PG:94.

(D) "PLAN PREPARED FOR DAVID BERNARD." DATED JULY 14, 1993 AND PREPARED BY REED SURVEYING INC. C.C.R.D. PB:194 PG:318.

(E) "SUBDIVISION PLAN: OF: MITCHELL HILL HEIGHTS, PHASE I." LAST REVISED JANUARY 6, 2003 AND PREPARED BY SEBAGO TECHNICS. C.C.R.D. PB:203 PG:36.

(F) "PLAN OF BITTERSWEET LANE (PRIVATE)" DATED AUGUST 2004 AND PREPARED BY ROSS BOUNDARY SURVEYS. C.C.R.D. PB:204 PG:600.

(G) "SUBDIVISION PLAN, 71 MITCHELL HILL ROAD." LAST REVISED JUNE 14, 2005 AND PREPARED BY NORTHEAST CIVIL SOLUTIONS. C.C.R.D. PB:205 PG:519.

LEGEND

	MANHOLE		RIGHT OF WAY LINE
	SIGN		CONTOUR MAJOR
	IP/IR FOUND		CONTOUR MINOR
	GRANITE BOUND FOUND		ABUTTING PROPERTY LINE
	BENCHMARK		GUARD RAIL
	UTILITY POLE		EXISTING UNDERGROUND DRAIN LINE
	GUY WIRE		EXISTING OVERHEAD UTILITY LINES
	DECIDUOUS TREE		
	CONIFEROUS TREE		
	SHRUB		PAVEMENT
	BOLLARD POST		GRAVEL
	DRY HYDRANT		LANDSCAPING AREA
	BORING		

SCALE: 1" = 40'

0 20' 40' 80' 160'

SCALE IN FEET

DATE OF PRINT
MAY 25 2022
HORIZONS ENGINEERING

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horizons Engineering

NEWPORT VT • SHARON VT • LITTLETON NH • CONWAY NH
NEW LONDON NH • NEWMARKET NH • SACO ME

ATLANTIC RESOURCE CONSULTANTS

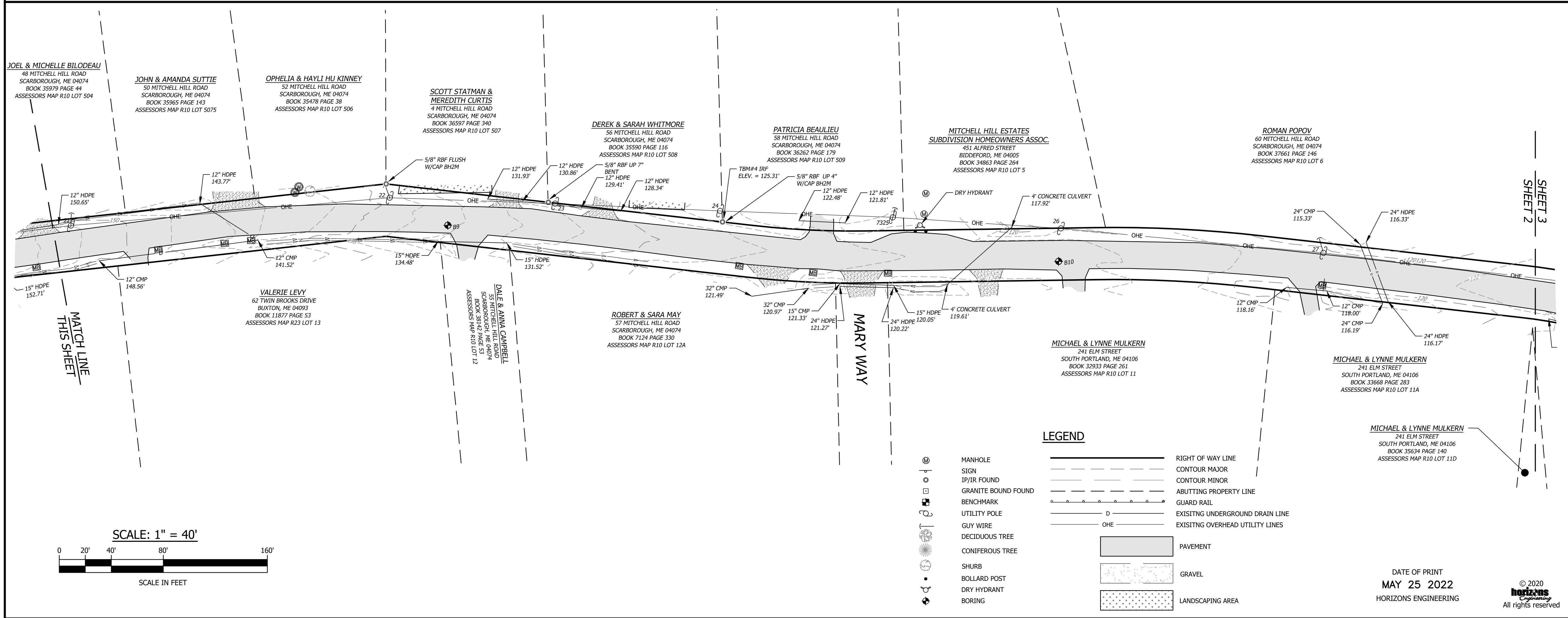
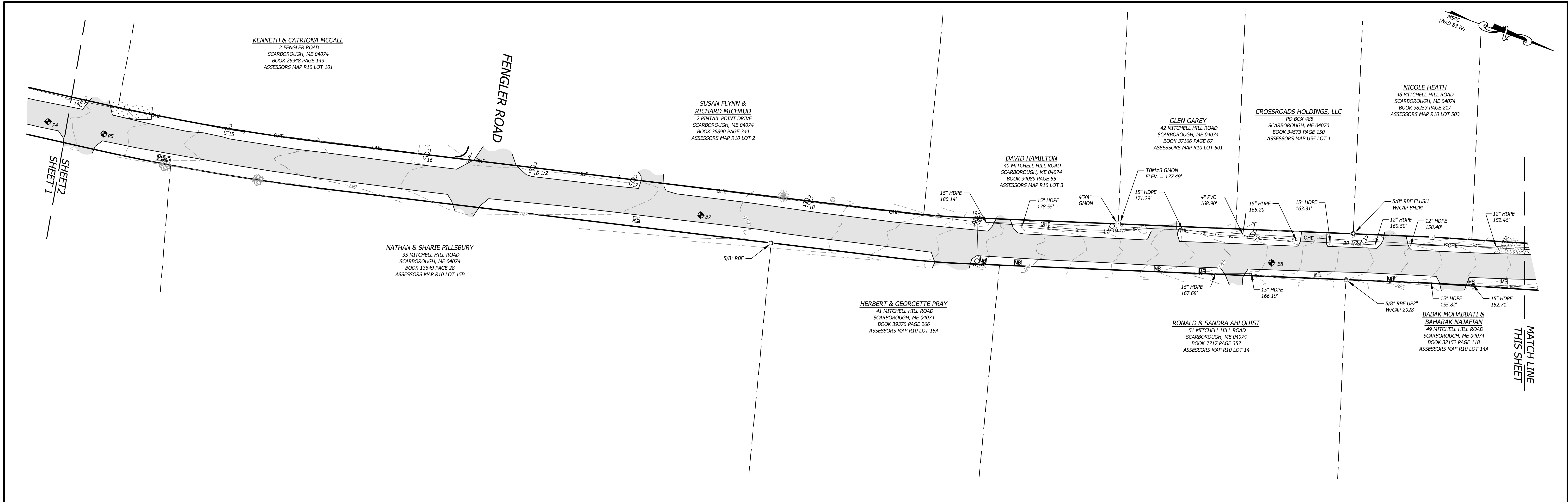
RIGHT-OF-WAY, TOPOGRAPHIC
EXISTING CONDITIONS SURVEY
MITCHELL HILL ROAD

SCARBOROUGH, MAINE

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE:	PROJECT #:
10/20/21	S-21205
SURV'D BY:	DRAWN BY:
JDN	JDN/RMF
CHECK'D BY:	ARCHIVE #:
AJN	H-___

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ATLANTIC RESOURCE
CONSULTANTS

RIGHT-OF-WAY, TOPOGRAPHIC
EXISTING CONDITIONS SURVEY
MITCHELL HILL ROAD

SCARBOROUGH, MAINE

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE:
10/20/21

PROJECT #:
S-21205

SURV'D BY:
JDN

DRAWN BY:
JDN/RMF

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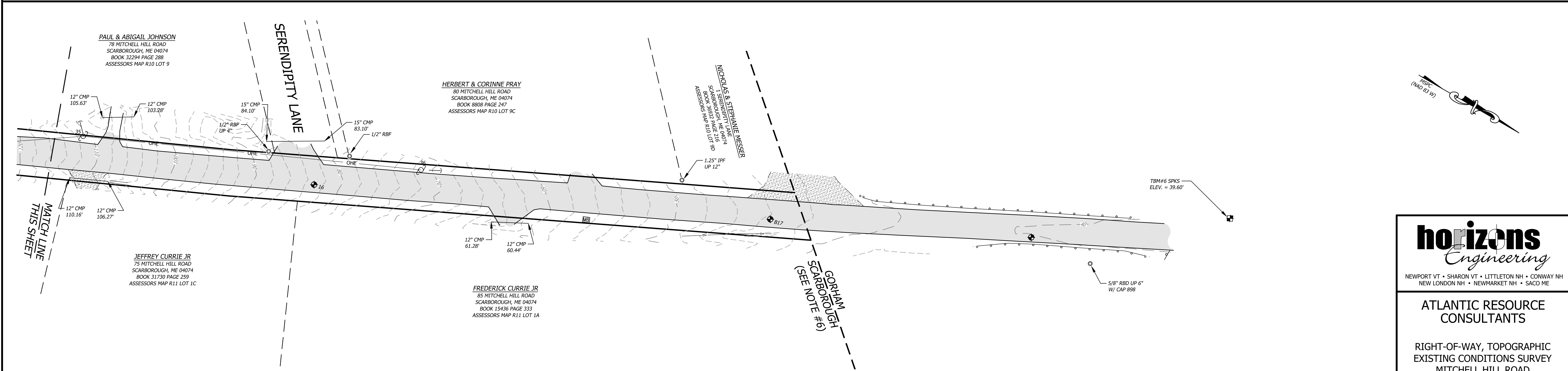
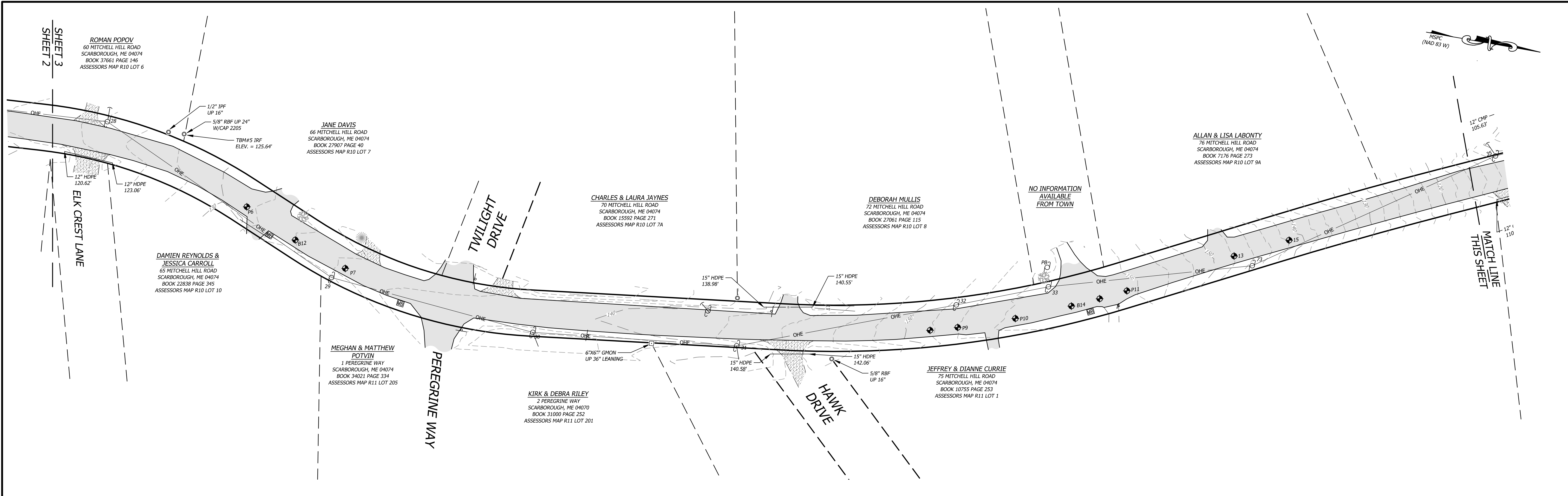
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\\192.168.50.34\Info\Survey\proj_S-2021\S-21205 ARC - Mitchell Hill Road Scarborough, ME\DWGS\Final\S-21205 Mitchell Hill Road 5.mwg, TOPO_2_5/25/2022 8:48:32 AM, Sbw.dwg



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SCALE: 1" = 40'

0 20' 40' 80' 160'

SCALE IN FEET

LEGEND

MANHOLE

SIGN

IP/IR FOUND

GRANITE BOUND FOUND

BENCHMARK

UTILITY POLE

GUY WIRE

DECIDUOUS TREE

CONIFEROUS TREE

SHURB

BOLLARD POST

DRY HYDRANT

BORING

RIGHT OF WAY LINE

CONTOUR MAJOR

CONTOUR MINOR

ABUTTING PROPERTY LINE

GUARD RAIL

EXISTING UNDERGROUND DRAIN LINE

EXISTING OVERHEAD UTILITY LINES

PAVEMENT

GRAVEL

LANDSCAPING AREA

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ATLANTIC RESOURCE
CONSULTANTS

RIGHT-OF-WAY, TOPOGRAPHIC
EXISTING CONDITIONS SURVEY
MITCHELL HILL ROAD

SCARBOROUGH, MAINE

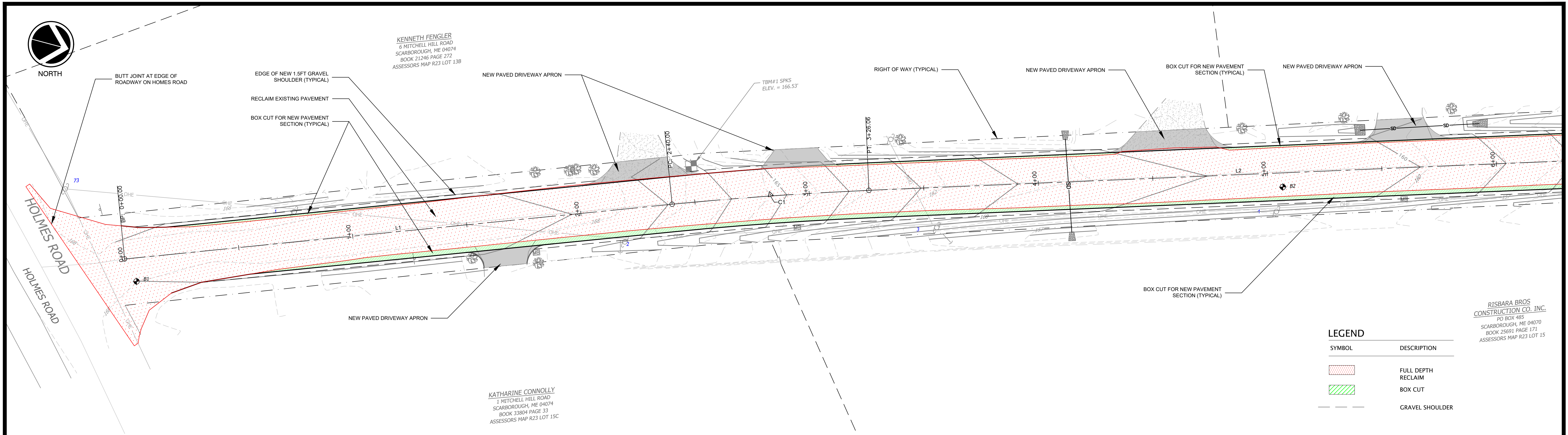
NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE:
10/20/21
PROJECT #:
S-21205

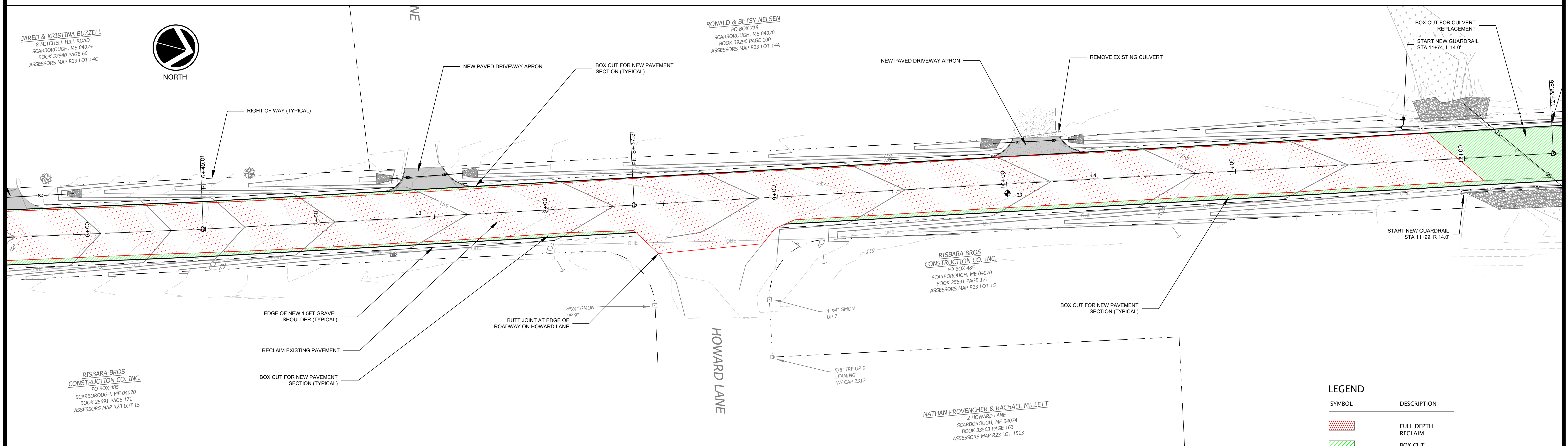
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SHEET 3 OF 3



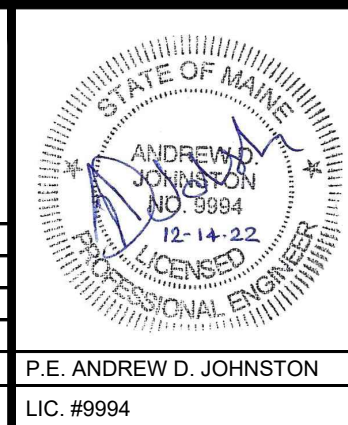
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MITCHELL HILL ROAD RE-CONSTRUCTION STA 6+00 - STA 12+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

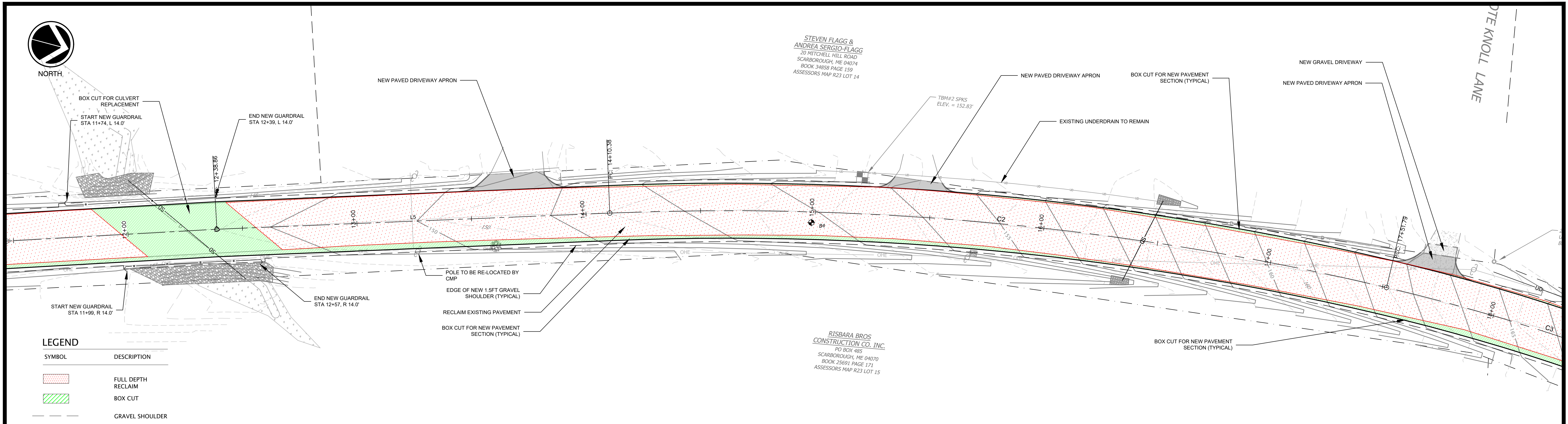
ISSUED FOR BID

REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW

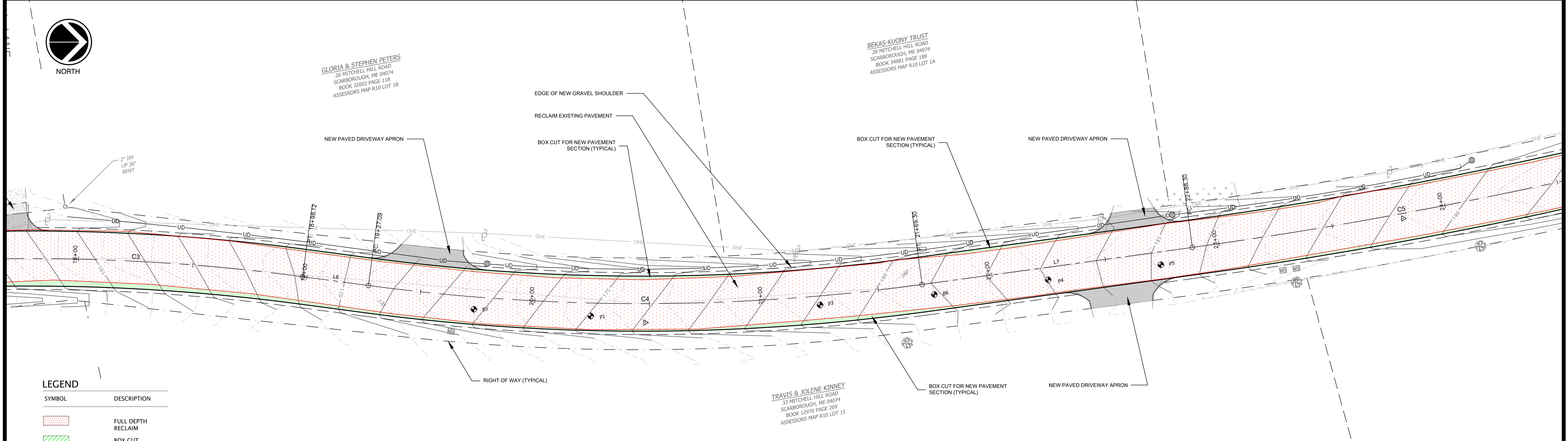


MITCHELL HILL ROAD SCARBOROUGH ROAD RE-CONSTRUCTION PAVING PLAN
TOWN OF SCARBOROUGH 259 US ROUTE ONE SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants 541 US Route One Freeport, ME 04032 Tel: 207.869.9050
DRAWN: AJ DESIGNED: AJ CHECKED: FILE NAME: SHEET: C-101
DATE: DECEMBER 2021 SCALE: AS SHOWN JOB NO. 21-045



MITCHELL HILL ROAD RE-CONSTRUCTION STA 12+00 - STA 18+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'



MITCHELL HILL ROAD RE-CONSTRUCTION STA 18+00 - STA 24+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

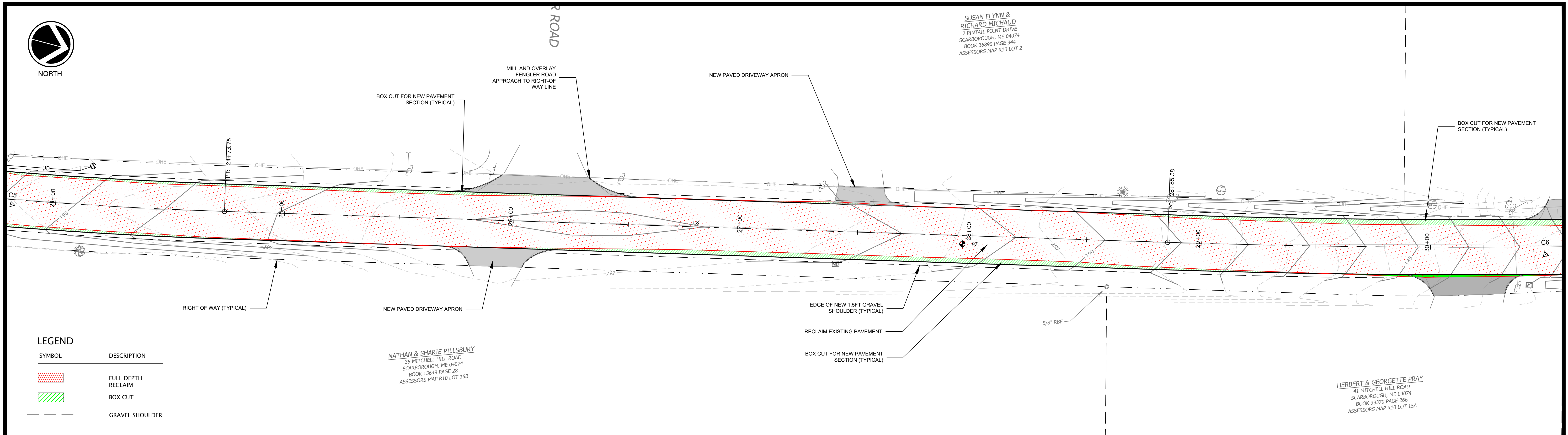
ISSUED FOR BID

REV	DATE	DESCRIPTION
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3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW

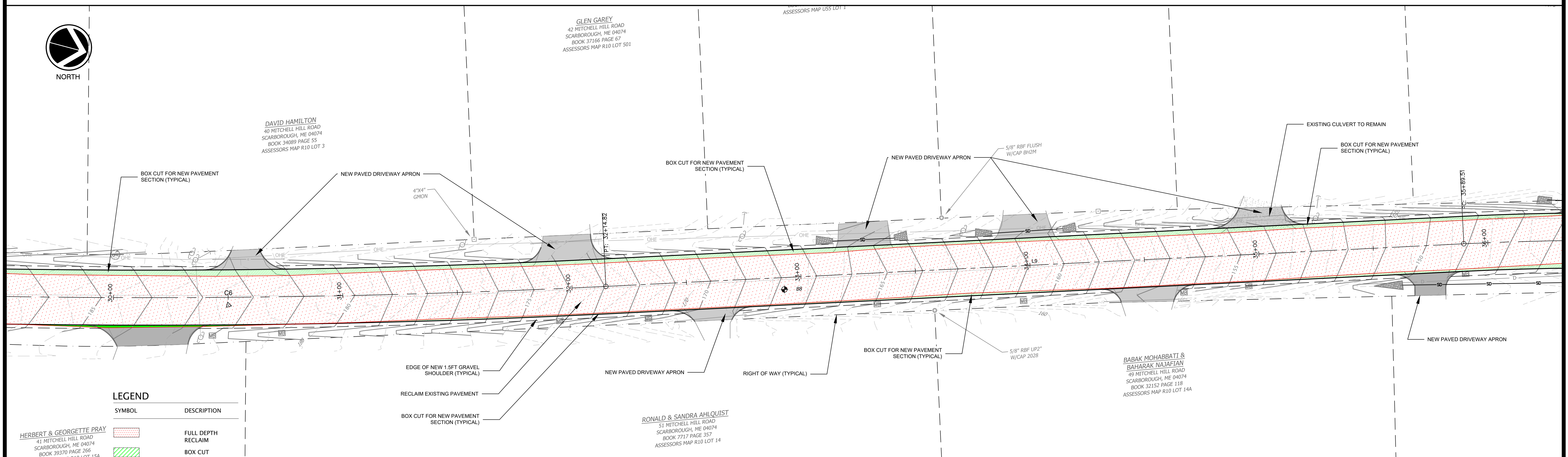
STATE OF MAINE
ANDREW D. JOHNSTON
12-14-22
LICENSED PROFESSIONAL ENGINEER
P.E. ANDREW D. JOHNSTON
LIC. #9994

MITCHELL HILL ROAD
SCARBOROUGH
ROAD RE-CONSTRUCTION
PAVING PLAN
TOWN OF SCARBOROUGH
259 US ROUTE ONE
SCARBOROUGH, MAINE 04074

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DESIGNED: AJ
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FILE NAME:
SHEET: C-102
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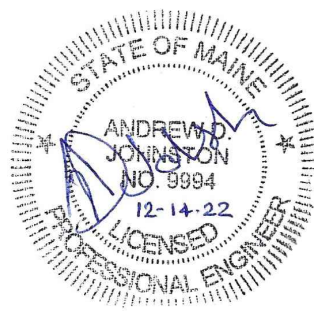
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MITCHELL HILL ROAD RE-CONSTRUCTION STA 30+00 - STA 36+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

ISSUED FOR BID


REV	DATE	DESCRIPTION
4	12-14-22	ISSUED FOR BID
3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW



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LIC. #9994

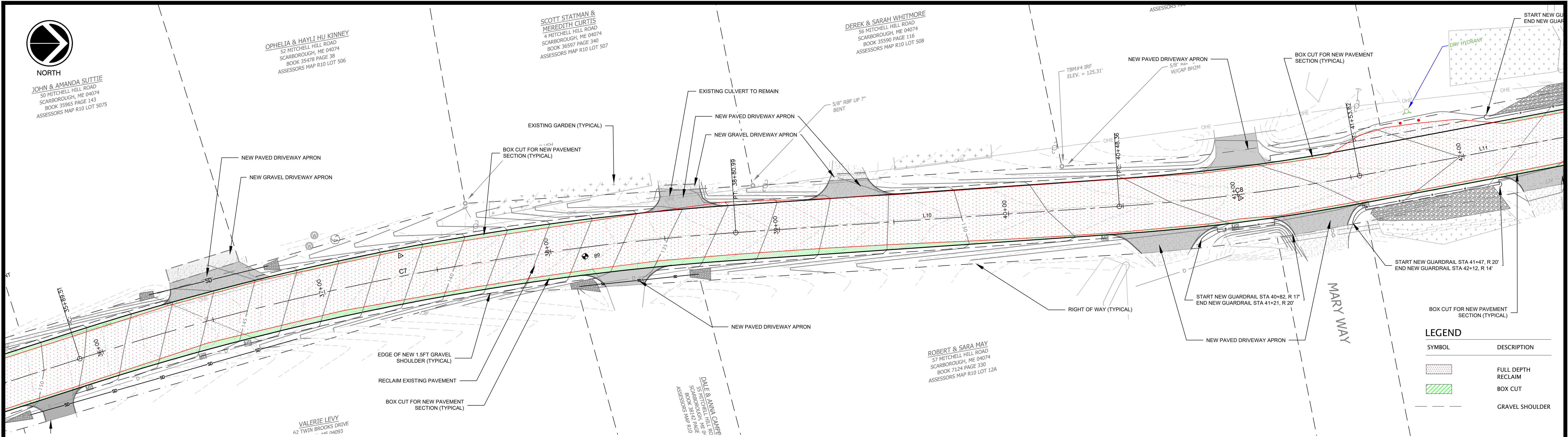
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ROAD RE-CONSTRUCTION
PAVING PLAN

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259 US ROUTE ONE
SCARBOROUGH, MAINE 04074

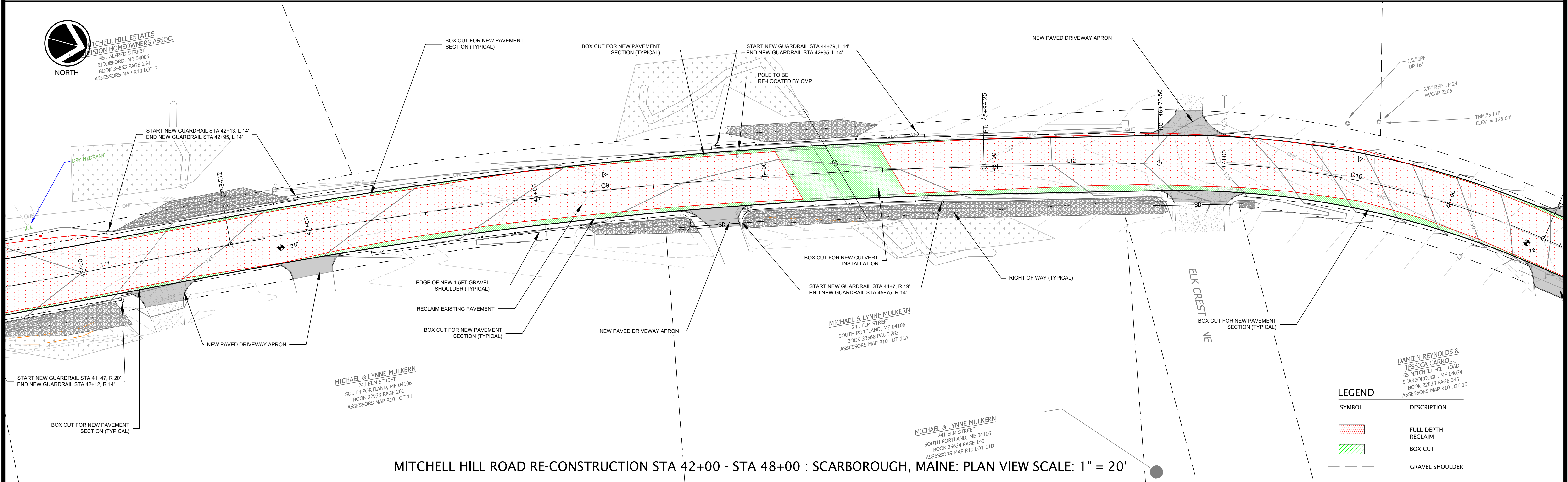


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FILE NAME:	
SHEET: C-103	



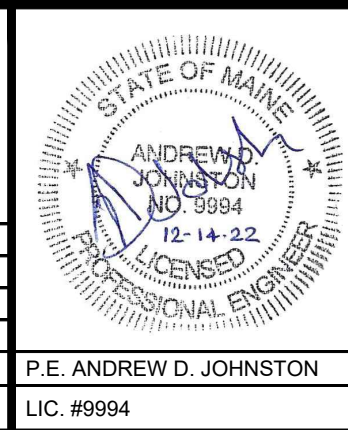
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MITCHELL HILL ROAD RE-CONSTRUCTION STA 42+00 - STA 48+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

ISSUED FOR BID

REV	DATE	DESCRIPTION
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3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REVISIONS		

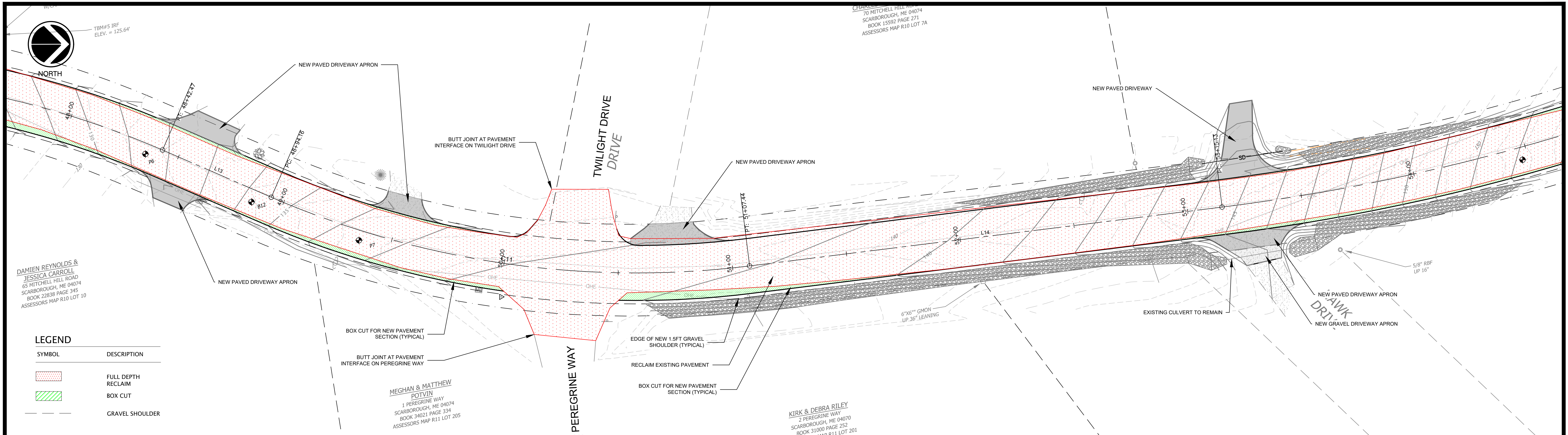


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SCARBOROUGH
ROAD RE-CONSTRUCTION
PAVING PLAN

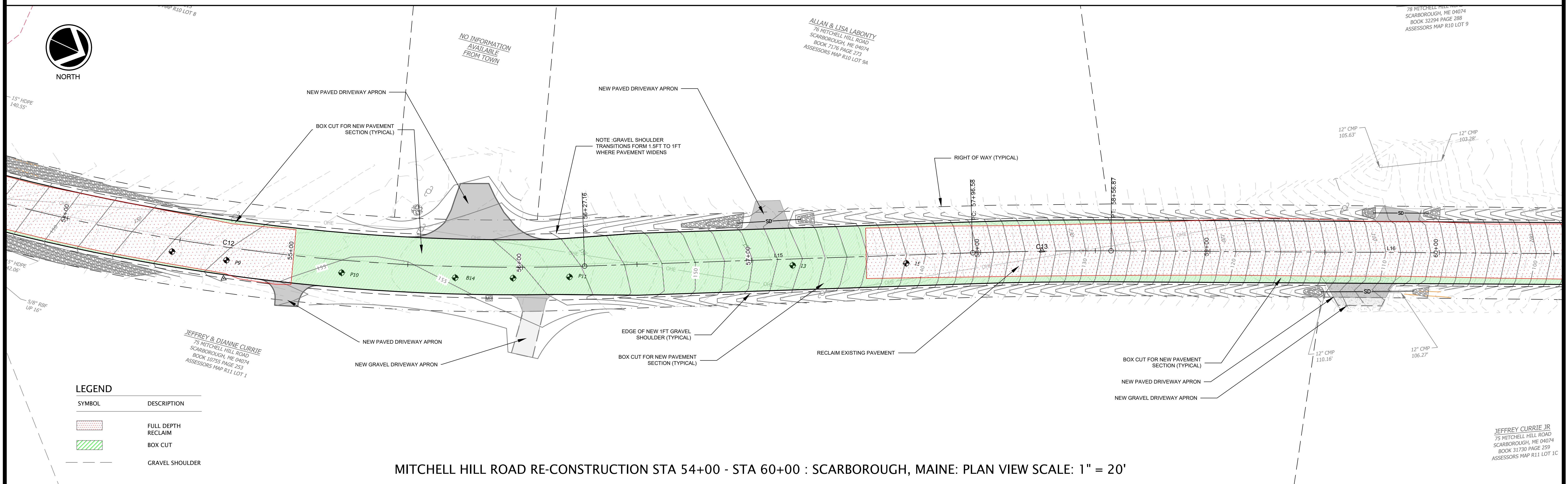
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Tel: 207.869.9050

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DESIGNED: AJ	SCALE: AS SHOWN
CHECKED:	JOB NO. 21-045
FILE NAME:	
SHEET: C-104	



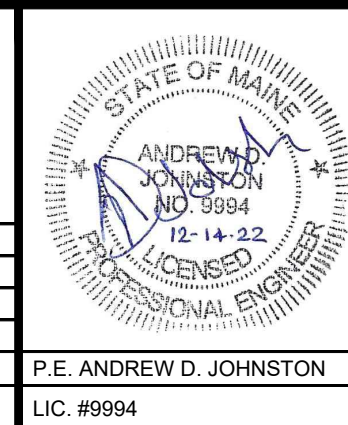
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MITCHELL HILL ROAD RE-CONSTRUCTION STA 54+00 - STA 60+00 : SCARBOROUGH, MAINE: PLAN VIEW SCALE: 1" = 20'

ISSUED FOR BID

REV	DATE	DESCRIPTION
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3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW

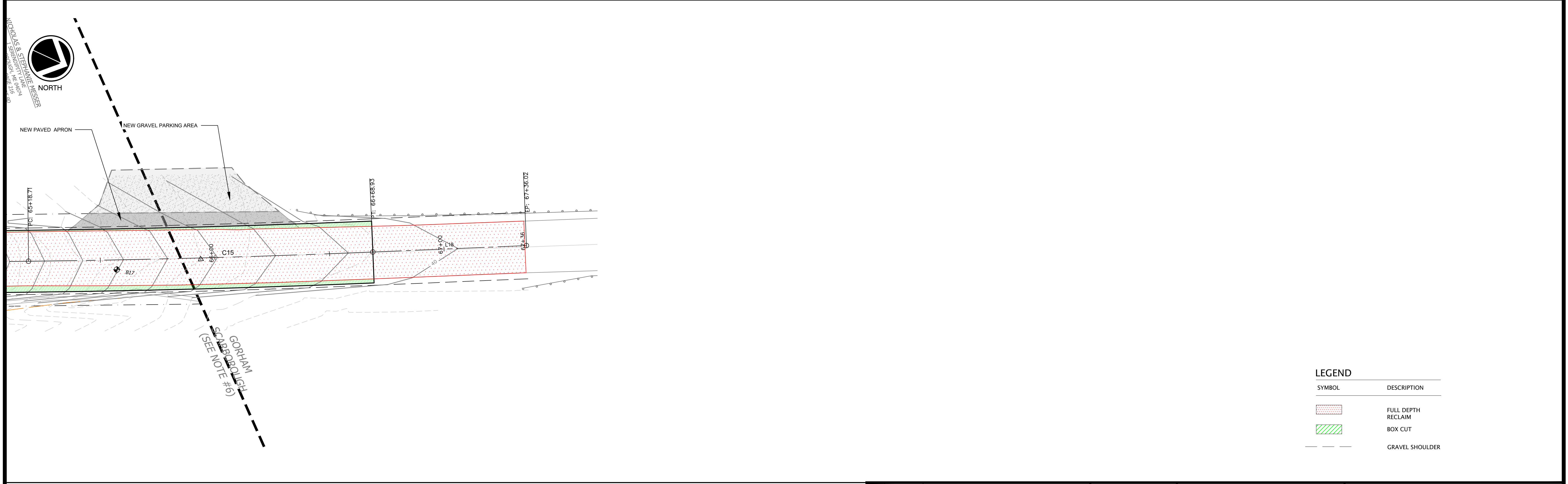
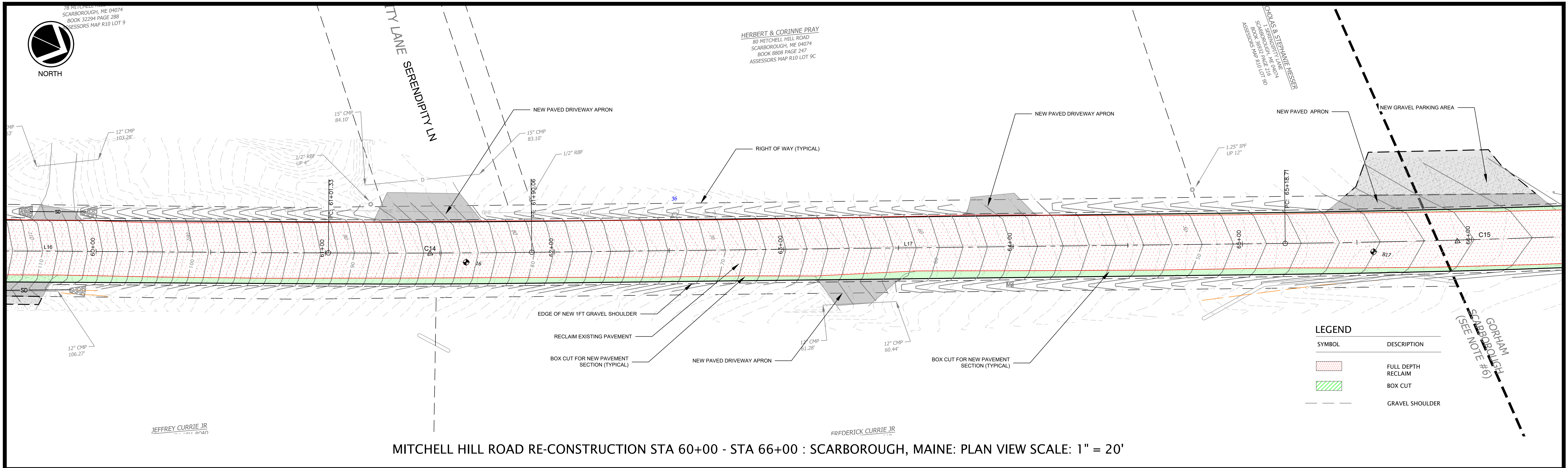


MITCHELL HILL ROAD
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259 US ROUTE ONE
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SHEET: C-105	



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3	11-04-22	UPDATE CULVERT CROSSINGS - 95% REVIEW
2	04-20-22	UPDATED TOPO - PRELIMINARY DESIGN DRAWINGS
1	12-10-21	ISSUED FOR 70% REVIEW
REV	DATE	DESCRIPTION
REVISIONS		

STATE OF MAINE

ANDREW D. JOHNSTON

NO. 9994

12-14-22

PROFESSIONAL ENGINEER

P.E. ANDREW D. JOHNSTON
LIC. #9994

MITCHELL HILL ROAD
SCARBOROUGH
ROAD RE-CONSTRUCTION
PAVING PLAN

TOWN OF SCARBOROUGH
259 US ROUTE ONE
SCARBOROUGH, MAINE 04074

Atlantic Resource Consultants

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Freeport, ME 04032
Tel: 207.869.9050

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DESIGNED: AJ

CHECKED:

FILE NAME:

SHEET: C-106

DATE: DECEMBER 2021

SCALE: AS SHOWN

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