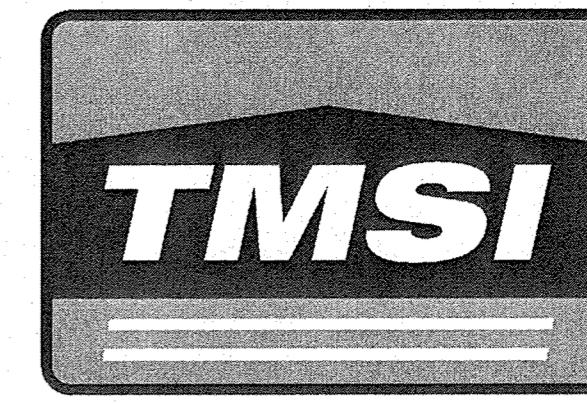


STATE OF MAINE DEPARTMENT OF TRANSPORTATION

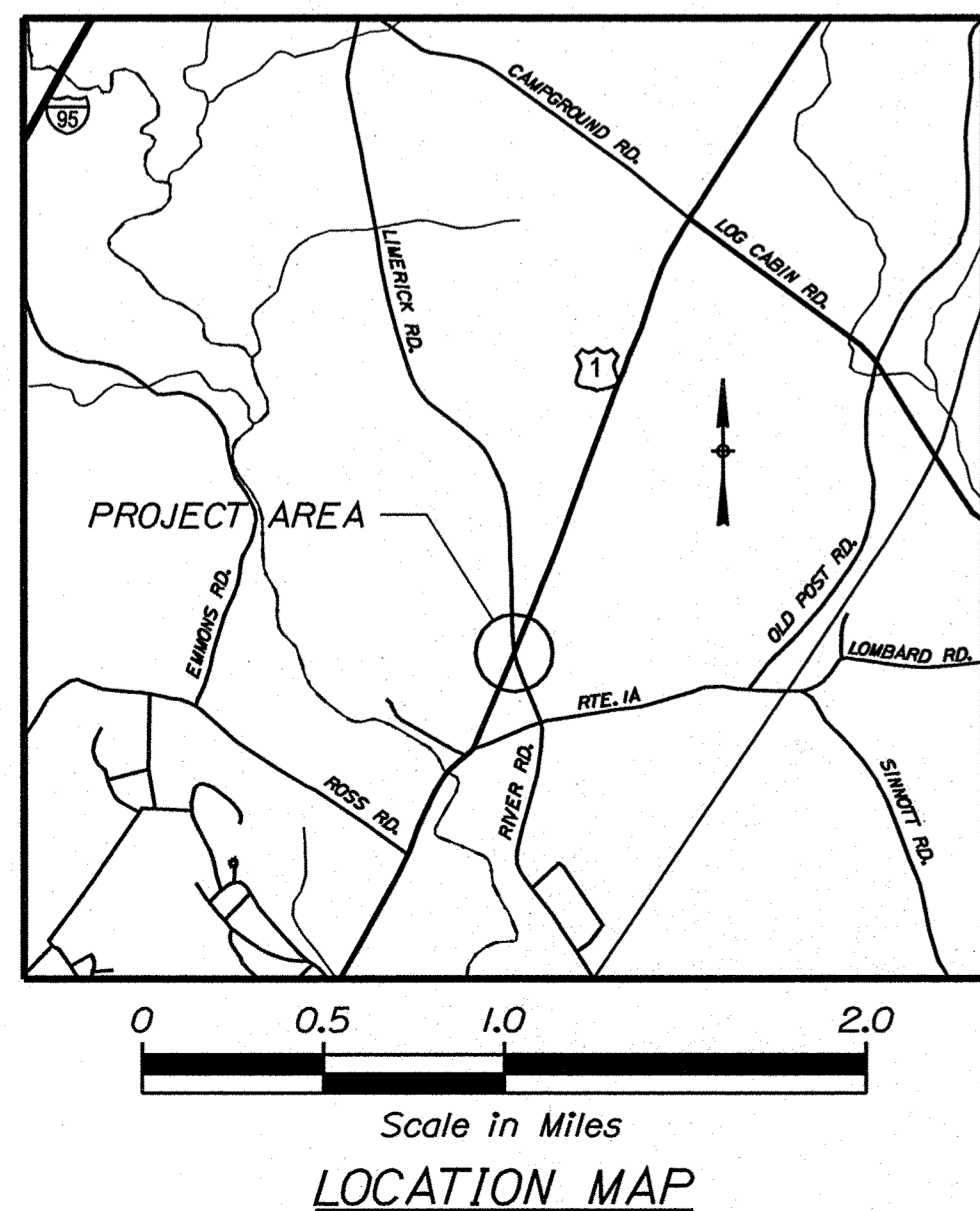
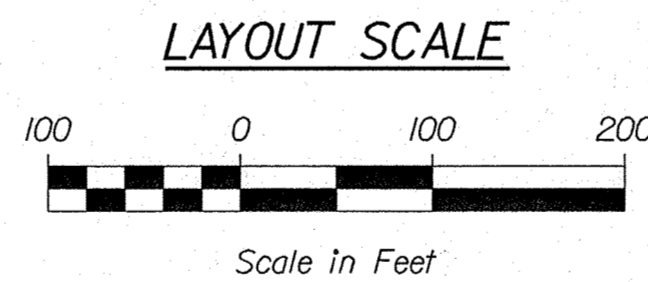
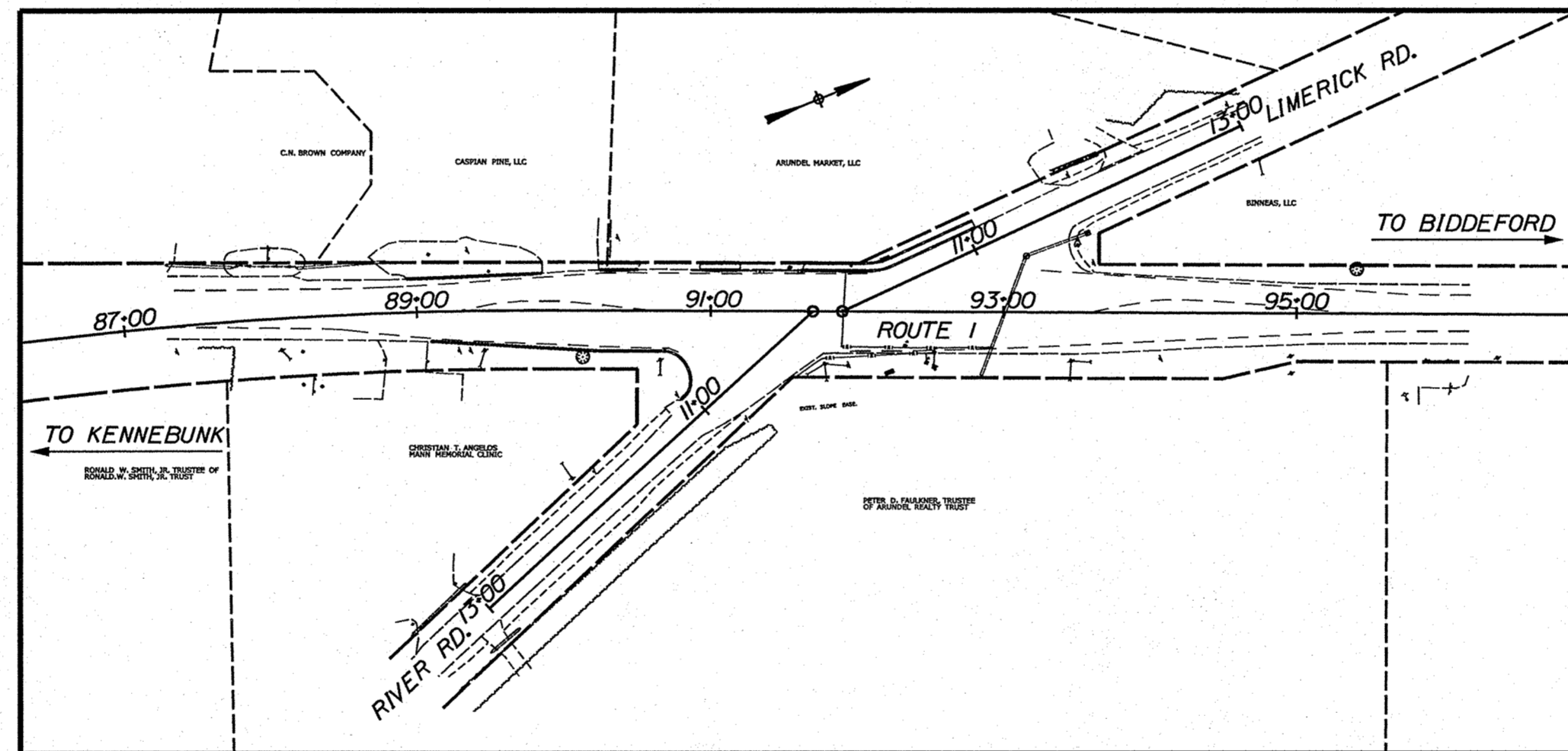


ARUNDEL YORK COUNTY

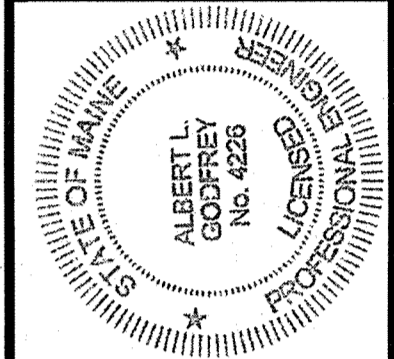
U.S. ROUTE 1/LIMERICK RD./RIVER RD.
STATE PROJECT 23509.00
PROJECT LENGTH : 0.00 MILE

| Description | Sheet No. |
|--|-----------|
| Title Sheet | 1 |
| Signal Plan | 2 |
| Signal Notes and Details | 3 |
| Strain Pole Foundation & Boring Location Plan with Boring Logs | 4 |
| Right of Way Plan | 5 |

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



| | | |
|--|--------------------|----------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | APPROVED | DATE |
| COMMISSIONER: <i>[Signature]</i> | <i>[Signature]</i> | 6-9-23 |
| CHIEF ENGINEER: <i>[Signature]</i> | <i>[Signature]</i> | 6-8-2023 |



| | | |
|--------------------|-------------|---------|
| SIGNATURE | P.E. NUMBER | DATE |
| <i>[Signature]</i> | 4226 | 1/31/23 |

| PROJECT INFORMATION | | |
|---------------------|------------|-------------------------|
| PROGRAM | MULTIMODAL | PROJECT COMPLETION DATE |
| PROJECT MANAGER | B. KEETZER | |
| DESIGNER | A. GODFREY | |
| CONSULTANT | TMSI | |
| PROJECT RESIDENT | | |
| CONTRACTOR | | |

ARUNDEL
U.S. ROUTE 1/LIMERICK RD./RIVER RD.
TITLE SHEET

| | |
|--------------|---|
| SHEET NUMBER | 1 |
| OF 5 | |

| | |
|--------------------------|---|
| PROJECT LOCATION: | INTERSECTION OF U.S. ROUTE 1, LIMERICK RD. AND RIVER RD. IN ARUNDEL |
| PROGRAM AREA: | MULTIMODAL |
| SCOPE OF WORK: | TRAFFIC SIGNAL |

023509.00 2350900

Date: 1/29/2023

Username: moirin

Division: HIGHWAY

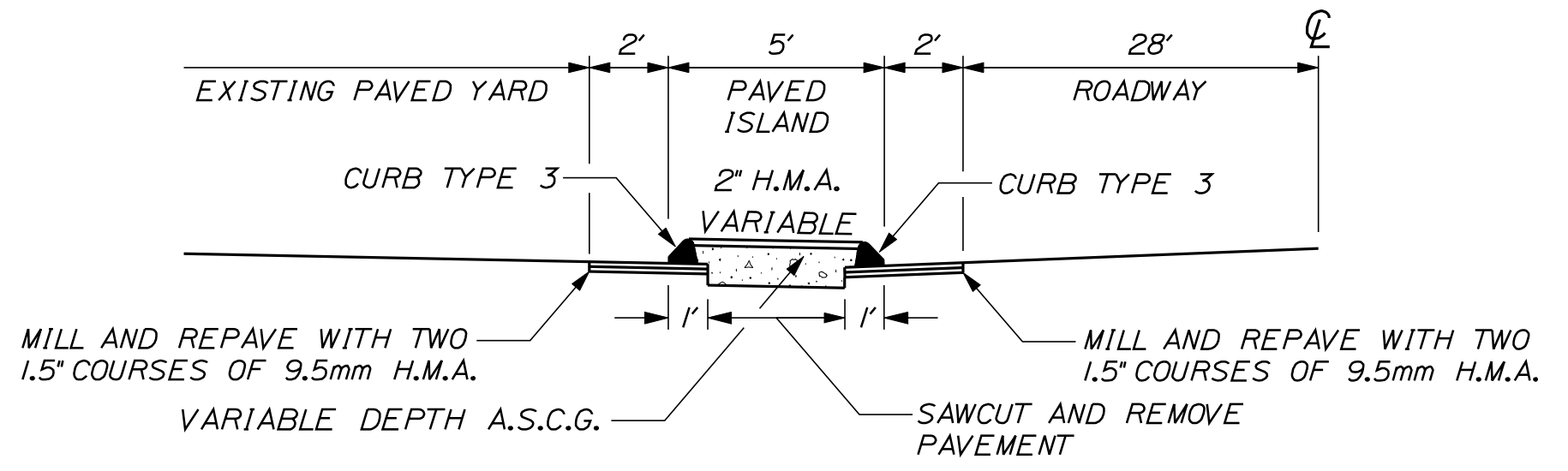
Filename: ... \00\HIGHWAY\MSTA\001_Title.dgn

Date: 2/2/2023

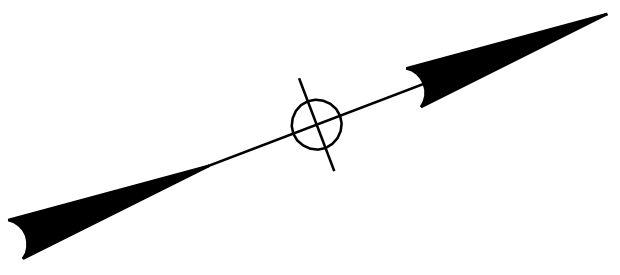
Username: morin

Division: HIGHWAY

Filename: ... \DCNV002_Signal Plan.dgn

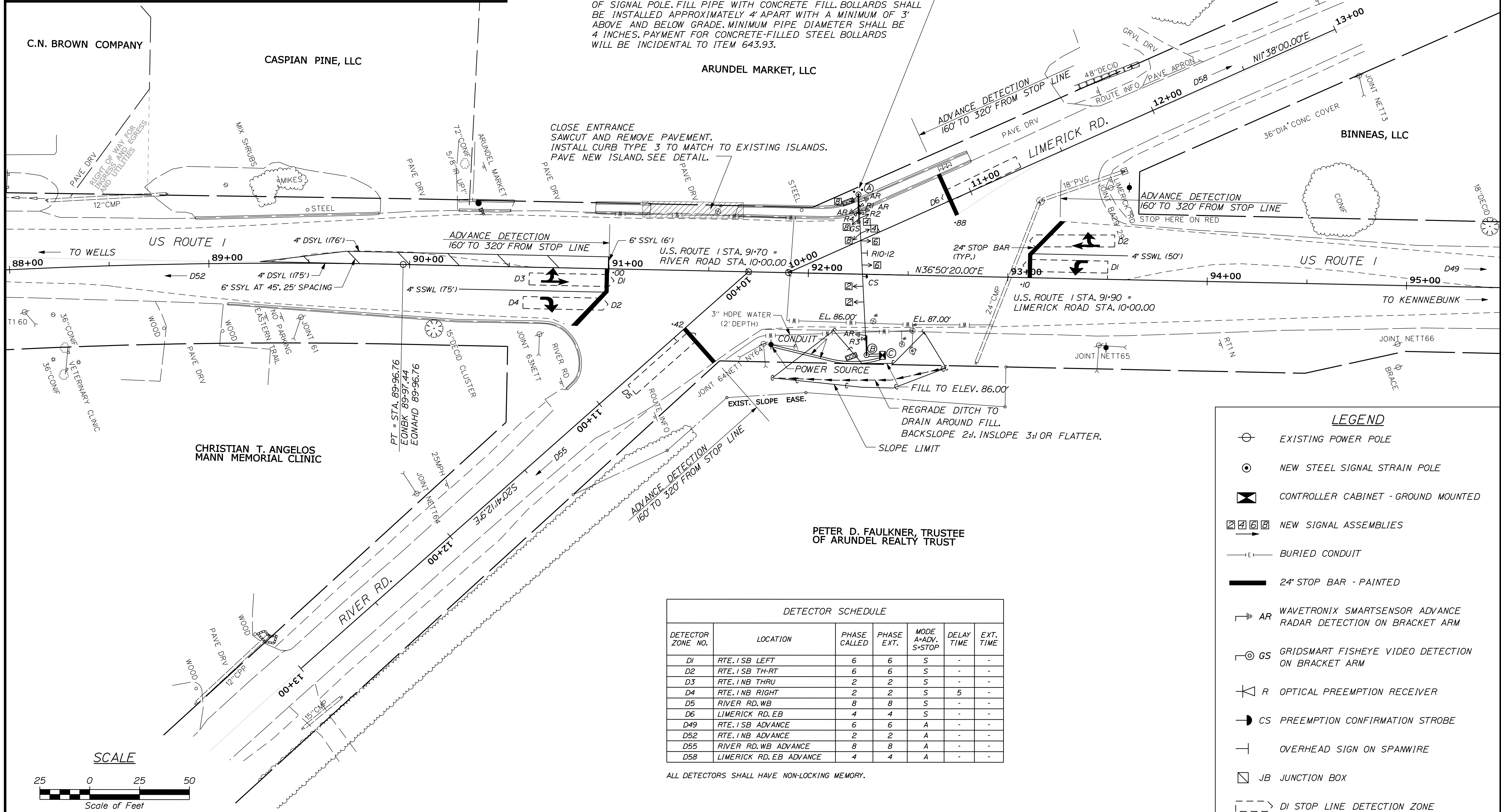


ENTRANCE CLOSURE ISLAND (NOT TO SCALE)



INSTALL 2 GALVANIZED STEEL PIPE BOLLARDS FOR PROTECTION OF SIGNAL POLE. FILL PIPE WITH CONCRETE FILL. BOLLARDS SHALL BE INSTALLED APPROXIMATELY 4' APART WITH A MINIMUM OF 3' ABOVE AND BELOW GRADE. MINIMUM PIPE DIAMETER SHALL BE 4 INCHES. PAYMENT FOR CONCRETE-FILLED STEEL BOLLARDS WILL BE INCIDENTAL TO ITEM 643.93.

CLOSE ENTRANCE SAWCUT AND REMOVE PAVEMENT. INSTALL CURB TYPE 3 TO MATCH TO EXISTING ISLANDS. PAVE NEW ISLAND. SEE DETAIL.



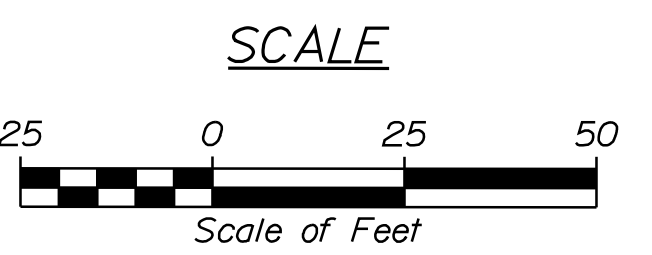
LEGEND

- EXISTING POWER POLE
- NEW STEEL SIGNAL STRAIN POLE
- CONTROLLER CABINET - GROUND MOUNTED
- NEW SIGNAL ASSEMBLIES
- BURIED CONDUIT
- 24" STOP BAR - PAINTED
- WAVETRONIX SMARTSENSOR ADVANCE RADAR DETECTION ON BRACKET ARM
- GRIDSMA RT FISHEYE VIDEO DETECTION ON BRACKET ARM
- OPTICAL PREEMPTION RECEIVER
- CS PREEMPTION CONFIRMATION STROBE
- OVERHEAD SIGN ON SPANWIRE
- JB JUNCTION BOX
- DI STOP LINE DETECTION ZONE

DETECTOR SCHEDULE

| DETECTOR ZONE NO. | LOCATION | PHASE CALLED | PHASE EXT. | MODE A=ADV. S=STOP | DELAY TIME | EXT. TIME |
|-------------------|-------------------------|--------------|------------|--------------------|------------|-----------|
| D1 | RTE. 1 SB LEFT | 6 | 6 | S | - | - |
| D2 | RTE. 1 SB TH-RT | 6 | 6 | S | - | - |
| D3 | RTE. 1 NB THRU | 2 | 2 | S | - | - |
| D4 | RTE. 1 NB RIGHT | 2 | 2 | S | 5 | - |
| D5 | RIVER RD. WB | 8 | 8 | S | - | - |
| D6 | LIMERICK RD. EB | 4 | 4 | S | - | - |
| D49 | RTE. 1 SB ADVANCE | 6 | 6 | A | - | - |
| D52 | RTE. 1 NB ADVANCE | 2 | 2 | A | - | - |
| D55 | RIVER RD. WB ADVANCE | 8 | 8 | A | - | - |
| D58 | LIMERICK RD. EB ADVANCE | 4 | 4 | A | - | - |

ALL DETECTORS SHALL HAVE NON-LOCKING MEMORY.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

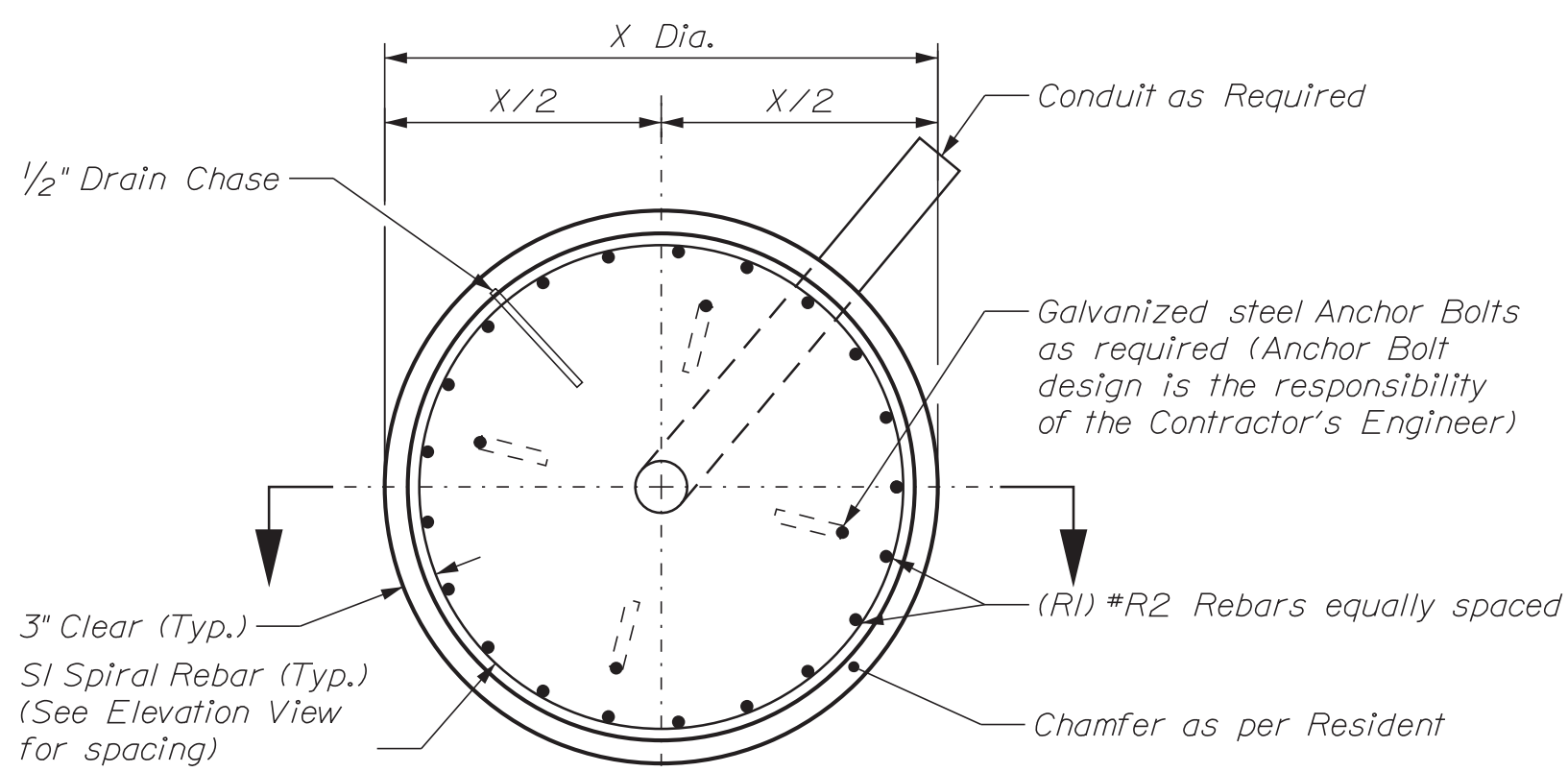
02350900
WIN 23509.00
HIGHWAY PLANS

ARUNDEL
RIVER RD./RIVER RD.

SIGNAL PLANS

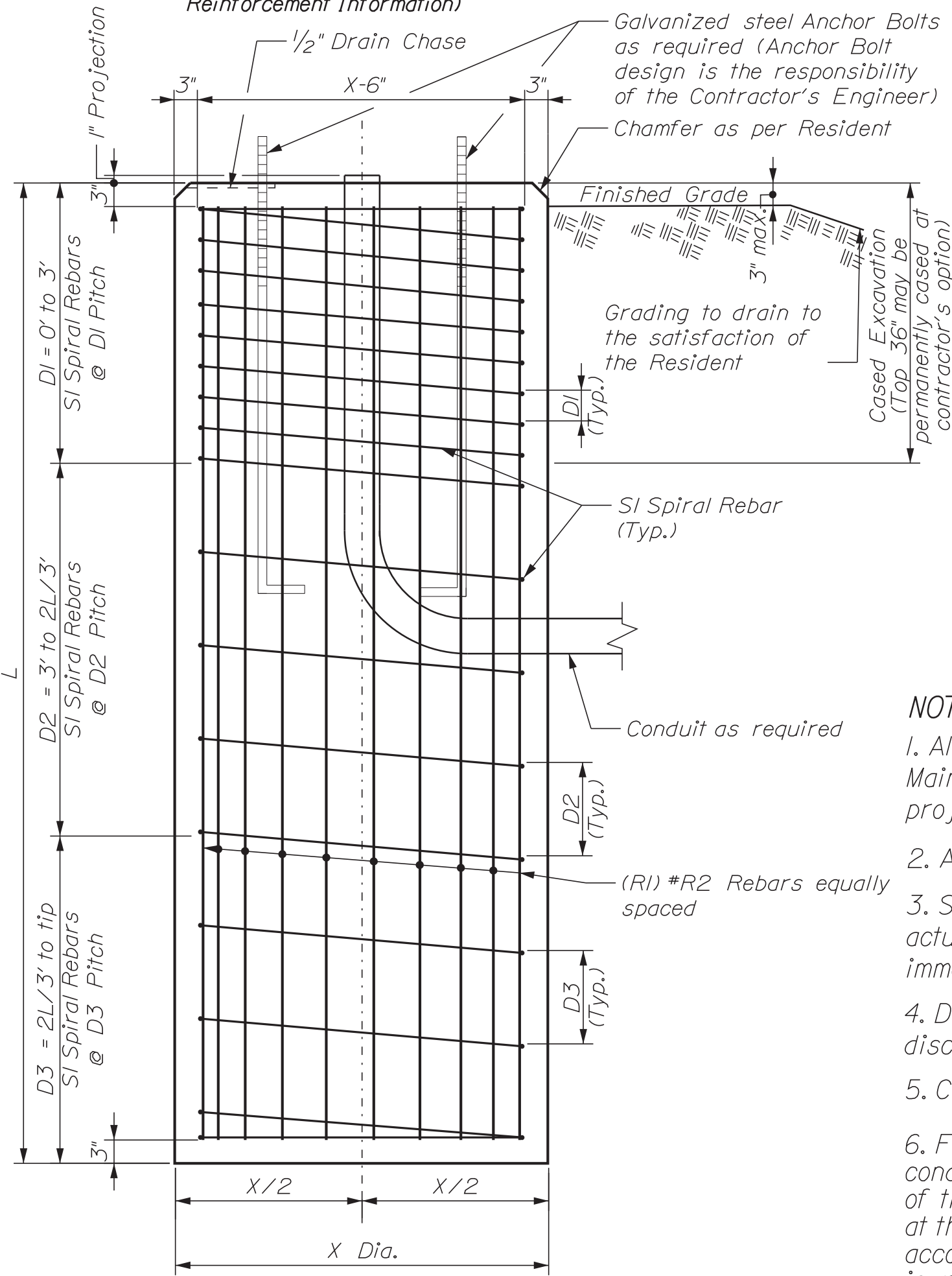
SHEET NUMBER
2
OF 5

| PROJ. MANAGER | DATE | BY | DATE | REVISIONS | FIELD CHANGES |
|---------------|------|-----|------|------------------|---------------|
| BRIAN KEIZER | 1-23 | MSM | 1-23 | DESIGN-DETAILED | ALC |
| | | | | CHECKED-REVIEWED | ALC |
| | | | | DESIGN-DETAILED | |
| | | | | DESIGN-DETAILED | |
| | | | | REVISIONS 1 | |
| | | | | REVISIONS 2 | |
| | | | | REVISIONS 3 | |
| | | | | REVISIONS 4 | |
| | | | | FIELD CHANGES | |



Drilled Shaft Plan View

Not to Scale (See Table for Drilled Shaft & Reinforcement Information)



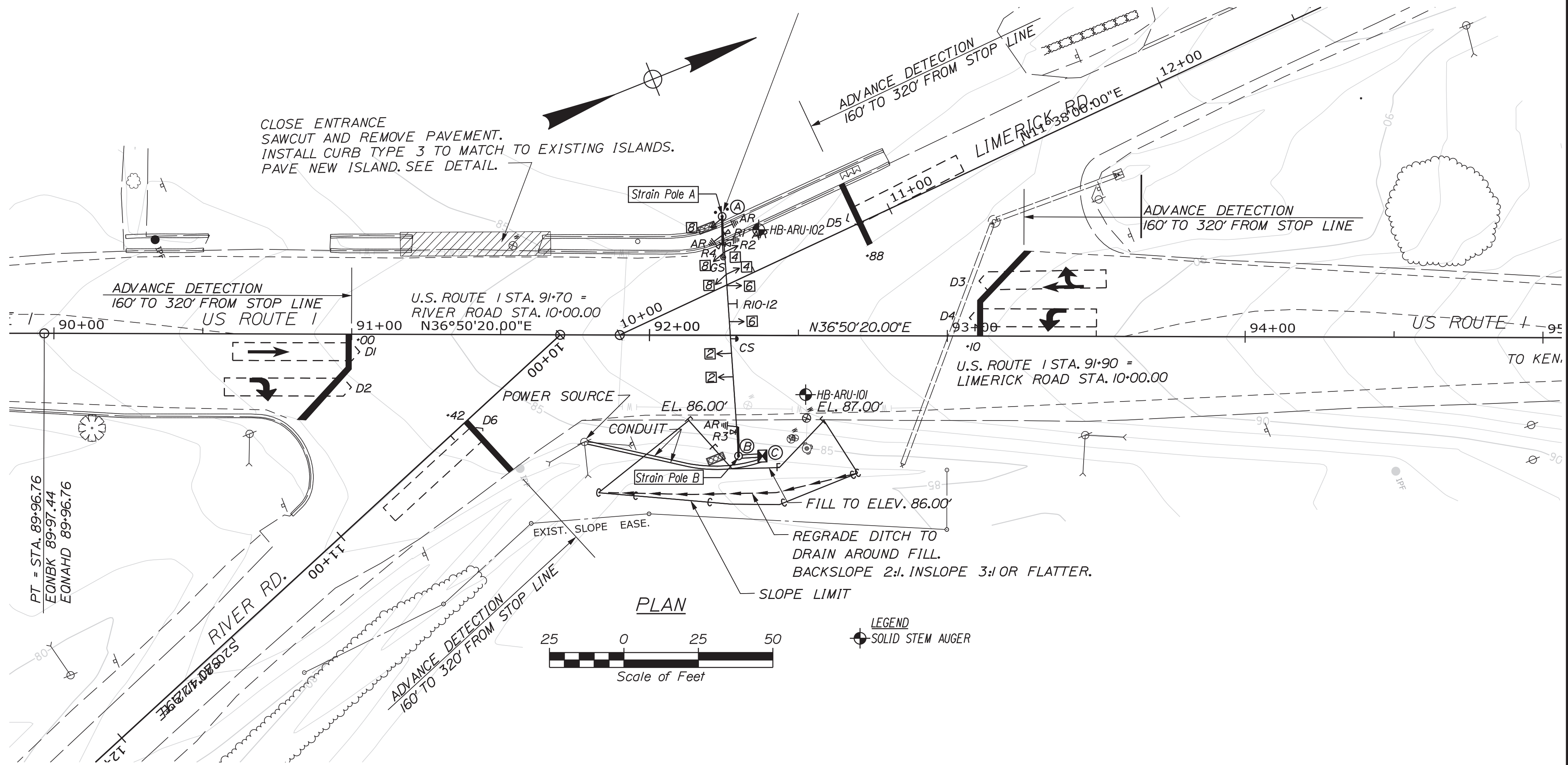
Drilled Shaft Elevation View

Not to Scale (See Table for Drilled Shaft & Reinforcement Information)

STRAIN POLE ARMS A & B

(A) Sta. 10+48, 21.5' Lt. (Limerick Road)
(B) Sta. 92+30, 40.5' Rt. (US Route 1)

| Strain Pole Designation | Strain Pole Station and Offset | Drilled Shaft Dimensions | | Reinforcing Steel | | | Spiral Bar Spacing | | |
|-------------------------|---------------------------------|--------------------------|-----------------|---------------------------------|-----------------------------|-----------------------|--------------------|-----------------------|-----------------------|
| | | X Diameter (feet) | L Length (feet) | R1 Longitudinal Rebars Quantity | R2 Longitudinal Rebars Size | S1 Spiral Rebars Size | D1 (in) 0 to 3ft | D2 (in) 3ft to 2L/3ft | D3 (in) 2L/3ft to tip |
| A | 10+48, 21.5' LT (Limerick Road) | 3.0 | 10.0 | 15 | #8 | #5 | 4 | 8 | 12 |
| B | 92+30, 40.5' RT (US Route 1) | 3.0 | 10.0 | 15 | #8 | #5 | 4 | 8 | 12 |



PLAN



LEGEND
SOLID STEM AUGER

NOTES:

- All reinforcing steel is to be grade 60 and conform to MaineDOT Standard Specification requirements along with any project specific Supplementals or Special Provisions.
- All rebar shall have 3" cover unless otherwise noted.
- Should there be a discrepancy between these Details and actual observed field conditions report it to the Resident immediately.
- Do not proceed with dependent work until any such discrepancy is resolved to the satisfaction of the Resident.
- Concrete to be Class LP with $f'c = 5,000$ PSI.
- Foundation sizes are designed based on estimated loading conditions and are subject to change based on the design of the above-ground components and the actual loading conditions at the top of each foundation submitted by the Contractor in accordance with Standard Specification Section 626.034. Any increase in foundation size based on the submitted loading conditions shall be paid for at the unit price bid by the Contractor. Any reduction in foundation size shall be to the benefit of the Department at the unit price bid by the Contractor.

| Maine Department of Transportation | | Project: U.S. Route 1 Signal Upgrades | | Boring No.: HB-ARU-101 | | |
|--|-------------------------------------|--|--------------------|---------------------------|--|--|
| Soil/Bank Exploration Log | | US CUSTOMARY UNITS | | Locations: Arundel, Maine | | |
| Driller: Methuen | Elevation (ft.): 87.2 | Auger ID/OD: 5" Dia. | WIN: 23509.00 | | | |
| Operator: Duggitt | Station: N4288 | Standard Split Spoon | | | | |
| Logged By: B. Willner | Rig Type: CME 45C | Header Wt./Fall: 140#/30" | | | | |
| Date Started/Finished: 6/11/2023/ 09:30-11:30 | Drilling Method: Solid Stem Auger | Core Barrel#: N/A | | | | |
| Boring Location: 92+30.5, 19.8 ft Rt. | Casing ID/OD: N/A | Water Level#: 7.5 ft bgs. | | | | |
| Header Efficiency Factor: 0.886 | Header Type: Automatic 80 Hydraulic | Rope & Catcher: <input type="checkbox"/> | | | | |
| Soil Information | | Laboratory Testing Result: S&B/D and Unified Class | | | | |
| Depth (ft.) | Sample No. | Pen./Frac. (in) | Sample Depth (ft.) | Blows / 6 in. (SPT) | Visual Description and Remarks | |
| 0 | 10 | 1.00 - 3.00 | 12/11/6/5 | 17 25 | 3-5" H.M.L. Brown, damp, medium dense, fine to coarse SAND, some gravel, little silt, with brick pieces. (F111) | |
| 5 | 20 | 24/15 | 5.00 - 7.00 | 5/8/12/9 | 20 30 | Light brown, moist, medium dense, fine to coarse SAND, little gravel, little silt. |
| 10 | 30 | 24/18 | 10.00 - 12.00 | 4/6/17/10 | 13 19 | Light brown, wet, medium dense, fine SAND, trace silt. |
| 15 | 40 | 24/20 | 15.00 - 17.00 | 4/7/9/12 | 16 24 | Grey, wet, very stiff, Clayey SILT, some fine sand. |
| 20 | 50 | 24/14 | 20.00 - 22.00 | 5/8/8/15 | 16 24 | Grey, wet, medium dense, fine to coarse SAND, little gravel, little silt. |
| Bottom of Exploration at 22.0 feet below ground surface. NO REFUSAL. | | | | | | |

| Maine Department of Transportation | | Project: U.S. Route 1 Signal Upgrades | | Boring No.: HB-ARU-102 | | |
|---|-------------------------------------|--|--------------------|---------------------------|--------------------------------|--|
| Soil/Bank Exploration Log | | US CUSTOMARY UNITS | | Locations: Arundel, Maine | | |
| Driller: Methuen | Elevation (ft.): 86.7 | Auger ID/OD: 5" Dia. | WIN: 23509.00 | | | |
| Operator: Duggitt | Station: N4288 | Standard Split Spoon | | | | |
| Logged By: B. Willner | Rig Type: CME 45C | Header Wt./Fall: 140#/30" | | | | |
| Date Started/Finished: 6/11/2023/ 07:30-09:30 | Drilling Method: Solid Stem Auger | Core Barrel#: N/A | | | | |
| Boring Location: 10451.2, 12.3 ft Lt. | Casing ID/OD: N/A | Water Level#: 15.0 ft bgs. | | | | |
| Header Efficiency Factor: 0.886 | Header Type: Automatic 80 Hydraulic | Rope & Catcher: <input type="checkbox"/> | | | | |
| Soil Information | | Laboratory Testing Result: S&B/D and Unified Class | | | | |
| Depth (ft.) | Sample No. | Pen./Frac. (in) | Sample Depth (ft.) | Blows / 6 in. (SPT) | Visual Description and Remarks | |
| 0 | 10 | 24/12 | 1.00 - 3.00 | 16/19/12/12 | 31 46 | 3" H.M.L. Brown, damp, dense, Gravelly, fine to coarse SAND, trace silt, (F111). |
| 5 | 20 | 24/19 | 5.00 - 7.00 | 4/6/8/8 | 14 21 | Light brown, moist, medium dense, fine to medium SAND, trace silt. |
| 10 | 30/A | 24/8 | 10.00 - 12.00 | 5/9/10/7 | 19 28 | 3D (10.0-11.0 ft bgs) Brown, wet, medium dense, fine to coarse SAND, little gravel, occasional cobblets. 3D/A (11.0-12.0 ft bgs) Olive, wet, very stiff, Clayey SILT, little fine sand. |
| 15 | 40 | 24/20 | 15.00 - 17.00 | 5/6/8/10 | 14 21 | Grey, wet, stiff, Clayey SILT, some fine sand. |
| 20 | 50 | 0/0 | 20.00 - 20.00 | 15/0/1 | ---- | Few cobbles from 19.0-20.0 ft bgs. Bottom of Exploration at 20.0 feet below ground surface. REFUSAL. |



DATE: MAY 2023
SIGNATURE: [Signature]
P.E. NUMBER: 7120
DATE: 1/27/2023

| PROJ. MANAGER | DATE | BY | REVISIONS | FIELD CHANGES |
|---------------|----------|----------|------------------|---------------|
| K. MAGUIRE | MAY 2023 | T. WHITE | DESIGN REVIEWED | |
| | | | DESIGNS DETAILED | |
| | | | DESIGNS DETILED | |
| | | | REVISIONS 1 | |
| | | | REVISIONS 2 | |
| | | | REVISIONS 3 | |
| | | | REVISIONS 4 | |

**ARUNDEL
U.S. ROUTE 1 / LIMERICK RD. / RIVER RD.
STRAIN POLE FOUNDATION
& BORING LOCATION PLAN
WITH BORING LOGS**

SHEET NUMBER

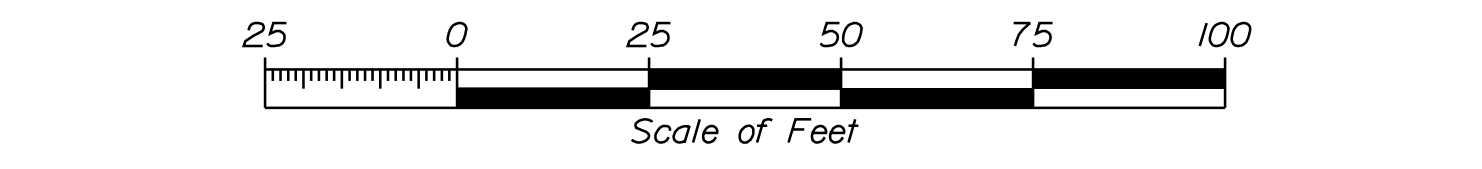
Town, County, State _____
 Approx. Property Lines _____
 Existing Right of Way _____
 Limits of Wrought Portion _____
 Control Of Access _____
 New Right of Way _____
 New Easement _____
 New Temporary Rights _____
 New R/W Within Existing R/W _____

New R/W Along Existing R/W
 Building _____
 Trees Conifer _____
 Tree Line _____
 Water Edge _____
 Ledge _____
 Fence CHAIN LINK _____
 Sign _____

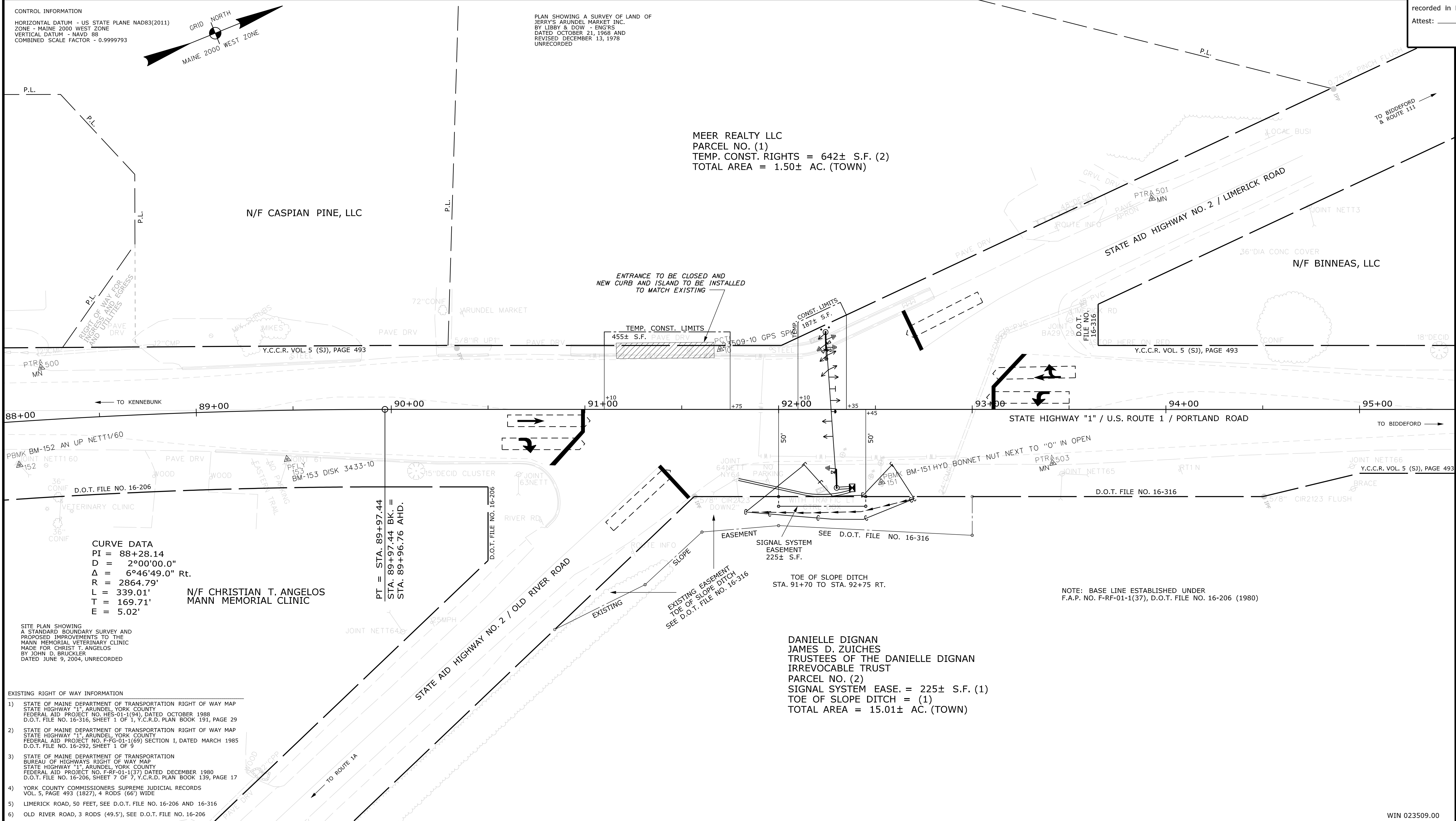
PLAN LEGEND
 Existing Proposed
 Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____
 Traveled Way _____
 Ditch _____
 Catch Basin _____
 Manhole _____
 Sewer Manhole _____
 Utility Pole _____
 Fire Hydrant _____
 Curbing _____

Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____
 Fill Line _____
 Retaining Wall _____
 Traverse Point _____
 Pipe Found _____

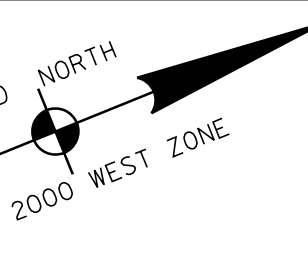
THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.



STATE OF MAINE
 REGISTRY OF DEEDS
 COUNTY _____
 RECEIVED _____
 at _____ h _____ m _____ M and
 recorded in Plan Bk _____, Pg. _____
 Attest: _____ REGISTER



CONTROL INFORMATION
 HORIZONTAL DATUM - US STATE PLANE NAD83(2011)
 ZONE - MAINE 2000 WEST ZONE
 VERTICAL DATUM - NAVD 88
 COMBINED SCALE FACTOR - 0.9999793



PLAN SHOWING A SURVEY OF LAND OF JERRY'S ARUNDEL MARKET INC. BY LIBBY & DOW - ENGRS DATED OCTOBER 21, 1968 AND REVISED DECEMBER 13, 1978 UNRECORDED

CURVE DATA
 PI = 88+28.14
 D = 2°00'00.0"
 Δ = 6°46'49.0" Rt.
 R = 2864.79'
 L = 339.01'
 T = 169.71'
 E = 5.02'

SITE PLAN SHOWING A STANDARD BOUNDARY SURVEY AND PROPOSED IMPROVEMENTS TO THE MANN MEMORIAL VETERINARY CLINIC MADE FOR CHRIST T. ANGELOS BY JOHN D. BRUCKLER DATED JUNE 9, 2004, UNRECORDED

- EXISTING RIGHT OF WAY INFORMATION
- STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE HIGHWAY "1", ARUNDEL, YORK COUNTY FEDERAL AID PROJECT NO. HES-01-1(94), DATED OCTOBER 1988 D.O.T. FILE NO. 16-316, SHEET 1 OF 1, Y.C.R.D. PLAN BOOK 191, PAGE 29
 - STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE HIGHWAY "1", ARUNDEL, YORK COUNTY FEDERAL AID PROJECT NO. F-FG-01-1(69) SECTION I, DATED MARCH 1985 D.O.T. FILE NO. 16-292, SHEET 1 OF 9
 - STATE OF MAINE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS RIGHT OF WAY MAP STATE HIGHWAY "1", ARUNDEL, YORK COUNTY FEDERAL AID PROJECT NO. F-FG-01-1(57) DATED DECEMBER 1980 D.O.T. FILE NO. 16-206, SHEET 7 OF 7, Y.C.R.D. PLAN BOOK 139, PAGE 17
 - YORK COUNTY COMMISSIONERS SUPREME JUDICIAL RECORDS VOL. 5, PAGE 493 (1827), 4 RODS (66') WIDE
 - LIMERICK ROAD, 50 FEET, SEE D.O.T. FILE NO. 16-206 AND 16-316
 - OLD RIVER ROAD, 3 RODS (49.5'), SEE D.O.T. FILE NO. 16-206

| REVISIONS | | | PLAN FILED IN PLAN BOOK | | | | PAGE COUNTY RECORD | | | | |
|-----------|------|-------------|-------------------------|-----|---------|------------|--------------------|------|------|-----|------|
| NO. | DATE | DESCRIPTION | BY | NO. | GRANTOR | INSTRUMENT | DATE | BOOK | PAGE | NO. | PAGE |
| | | | | | | | | | | | |

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

STATE HIGHWAY "1"
 U.S. ROUTE 1 / PORTLAND ROAD
 ARUNDEL YORK COUNTY
 FEDERAL AID PROJECT NO. 2350900

JANUARY 2023
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 1

D.O.T. FILE NO. 16-544

SHEET NUMBER
5
 OF 5

| TECH | CHECKED |
|--------|---------|
| R.M.C. | C.W.K. |
| J.H. | B.D.M. |
| J.H. | G.M.A. |

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

ARUNDEL
 RIGHT OF WAY MAP

Date: 1/30/2023
 Username: Jude.Hogan
 Division: ROW
 Filename: ...\\00\ROW\WSTA001_RWP\LAN1.dgn