STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

Town, County, State	Centerline-Existing
Property Lines	Centerline-Proposed
R/W Lines-Existing	Travelway-Existing
R/W Lines-Proposed	Travelway-Proposed
Culvert-Existing	Railroad
Culvert Proposed	Catch Basins — Existing / Proposed
Curbing — Existing / Proposed	Manholes — Existing / Proposed
Type 1	Proposed Underdrain
Type 3	Proposed Ditch
Type 5	Existing Ditch
Outline of Bodies of Water	Utility Poles — Existing / Proposed
Exposed Bedrock	Fire Hydrants — Existing / Proposed
Buildings	Existing Water Line
Trees — Conifer / Deciduous	Existing San. Sewer
Tree Line	Existing San. Sewer Manhole
Clearing Limit Line — CLL	Guardrail-Existing
Boring	Guardrail-Proposed
Existing Overhead Line — OHU	Guardrail-Cable, Other

	Existing	Proposed
Electrical Conduit	E	E
Communication Conduit	ITS	PITS
ITS Controller Cabinet		
Highway Traffic Camera		
CCTV - High Mast Light Pole		
Pullbox (Electric)	pbe	PBE
Pullbox (Communications)	pbc	PBC
Meter Pedestal		
Support Posts		
Light Pole		

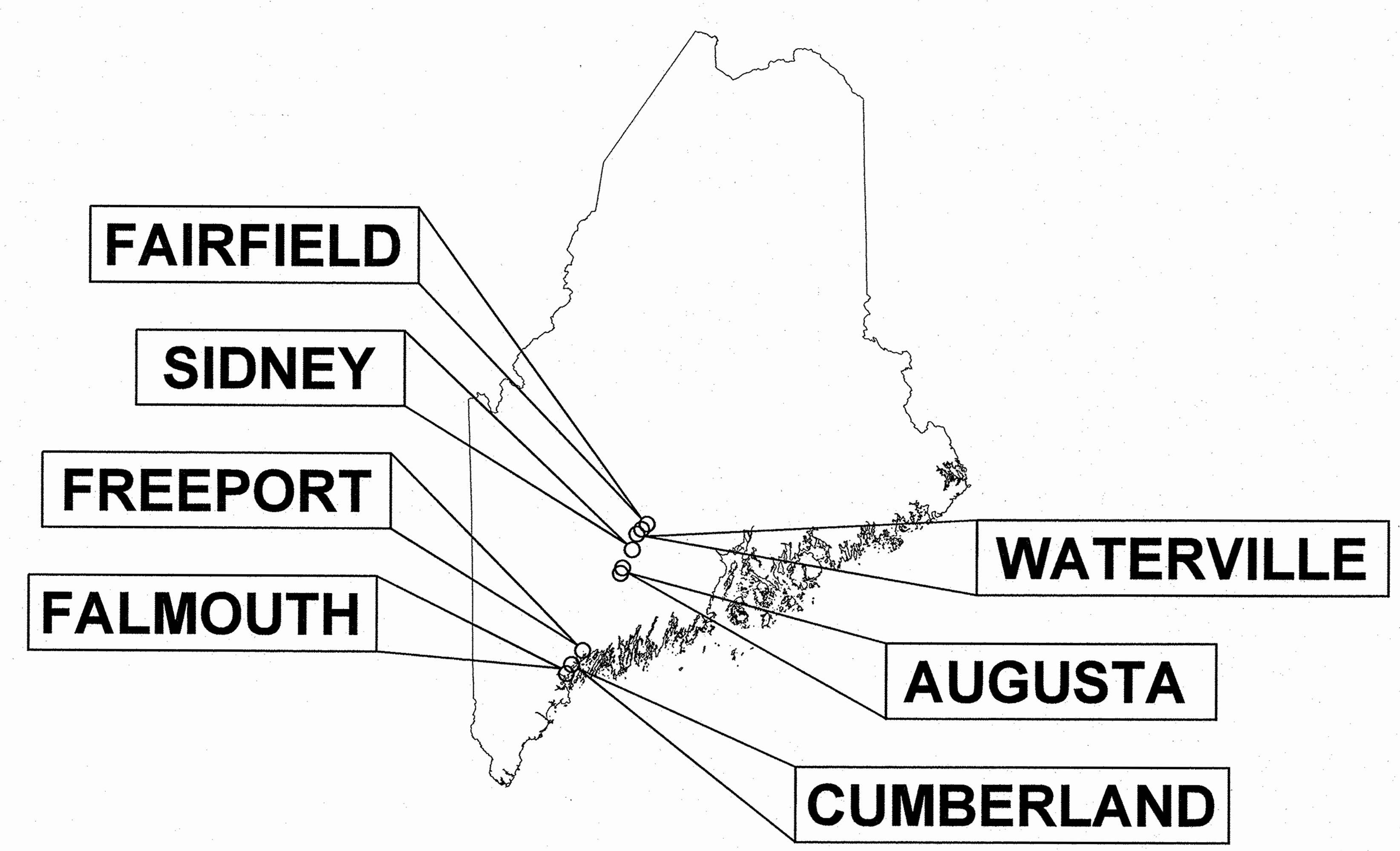
STATEWIDE

CCTV INSTALLATIONS

FEDERAL PROJECT NO. 2613000
STATE WIN 026130.00

INDEX OF SHEETS

* CCTV Site Plan 1 - Falmouth, 2- Cumberland, and 8-Waterville have additional power connection sheets.



PROJECT LOCATION:	Statewide. Including the Cities of Augusta and Waterville. The Towns of Cumberland, Fairfield, Falmouth, Freeport, and Sidney.
PROGRAM AREA:	Traffic/ITS (Intelligent Transportation Systems)
OUTLINE OF WORK:	This project is for the installation of nine (9) new Closed Circuit Television Cameras (CCTV) along I-295 and I-95 from Falmouth to Fairfield

WIN 026130.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

APPROVED — COMMISSIONER: [signature] DATE 11-8-24; CHIEF ENGINEER: [signature] DATE 11-8-2024

STATE OF MAINE — MARK D. SUENNEN — No. 11481 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE: [signature] — P.E. NUMBER 11481 — DATE 11/4/2024

PROJECT INFORMATION

PROGRAM	TRAFFIC
PROJECT MANAGER	D. LORING
DESIGNER	C. MONASTERIO
CONSULTANT	VHB
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

STATEWIDE CCTV INSTALLATIONS

TITLE SHEET

SHEET NUMBER 1 OF 25

Filename: ...\cad\ts\planset\001_Title.dgn Division: HIGHWAY Username: dschandel Date:11/7/2024

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD SPECIFICATIONS.

2. CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MAINEDOT STANDARD DETAILS AND THE MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL (LATEST EDITION AND REVISIONS) UNLESS OTHERWISE INDICATED IN THESE PLANS.

3. NO FORMAL SURVEY WAS CONDUCTED FOR THE DESIGN OF THIS PROJECT. CONDUITS AND PULL BOXES WERE NOT ASSIGNED GPS COORDINATES. DESIGN WAS BASED ON AERIAL PHOTOGRAPHY, AND FIELD INVESTIGATION CONDUCTED BY VHB.

4. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED, UNLESS OTHERWISE DIRECTED BY THE RESIDENT. ALL PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR. COSTS FOR REPAIR OF DISTURBED AREAS SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.

5. THE CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION WORK.

6. THE CONTRACTOR SHALL INSTALL A GROUNDING SYSTEM FOR EACH INSTALLATION THAT FOLLOWS LOCAL, STATE, AND NEC GUIDELINES. THE CONTRACTOR SHALL VERIFY A READING THAT MEETS MANUFACTURERS RECOMMENDATIONS UPON INSTALLATION. IN THE EVENT OF ONE OR TWO STANDARD COPPER GROUND RODS ARE INSUFFICIENT TO MEET THE MANUFACTURER'S GROUNDING REQUIREMENTS, THE CONTRACTOR SHALL INSTALL A CHEMICAL GROUND ELECTRODE SYSTEM. THE CHEMICAL GROUND ELECTRODE SYSTEM SHALL EITHER BE EPA APPROVED OR PLACED IN EPA APPROVED AND IEC 62561 BENCHMARK-EXCEEDING GROUND ENHANCEMENT MATERIAL.

7. CONTRACTOR SHALL DO MANUAL CLEARING OF VEGETATION AND OBSTRUCTIONS WITH HAND TOOLS AT SOME LOCATIONS. MANUAL CLEARING WILL BE PAID UNDER ITEM 629.05 AND ITEM 631.18 AS APPROPRIATE.

TEMPORARY TRAFFIC CONTROL:

1. ALL TRAFFIC CONTROL EQUIPMENT, DEVICES, AND TEMPORARY TRAFFIC CONTROLS SHALL CONFORM TO THE 2009 EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CHAPTER 6 AND THE LATEST EDITION OF THE MAINEDOT STANDARD DETAILS.

2. ALL TEMPORARY TRAFFIC CONTROL SIGNS, SIGN SUPPORT STRUCTURES, CHANNELIZING DEVICES, FLASHING ARROW PANELS (FAP), PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AND OTHER TRAFFIC CONTROL EQUIPMENT ALONG THE ROADSIDE SHALL MEET OR EXCEED MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) 2016, TEST LEVEL 3 (TL-3) IF MANUFACTURED AFTER DECEMBER 31, 2019. ALL OTHER TRAFFIC CONTROL EQUIPMENT SHALL MEET OR EXCEED NCHRP 350 TL-3.

3. ALL TEMPORARY TRAFFIC CONTROL SIGNS SHALL HAVE ASTM D4956 TYPE VII, TYPE VIII OR TYPE IX SUPER HIGH INTENSITY OR PRISMATIC FLUORESCENT RETROREFLECTIVE SHEETING AND SHALL BE MAINTAINED IN LIKE-NEW CONDITION. ALL ORANGE CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE WITH TYPE IX SHEETING. PLACEMENT OF CONSTRUCTION SIGNS SHALL BE ADJUSTED TO AVOID OBSTRUCTING EXISTING SIGNS AND TO ENSURE PROPER SIGHT LINES TO THE CONSTRUCTION SIGNS AS DETERMINED BY THE RESIDENT.

4. ANY SIGNS, EQUIPMENT, OR DEVICES FOUND TO BE DAMAGED OR UNSERVICEABLE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. ALL SHOULDER AND LANE CLOSURES SHALL REQUIRE APPROVAL OF THE RESIDENT A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF THE CLOSURE.

6. IF WORK IS TO BE CONDUCTED AT NIGHT, THE CONTRACTOR SHALL SUBMIT A LIGHTING PLAN FOR NIGHT WORK TO THE RESIDENT FOR APPROVAL.

GUARDRAIL PROTECTION:

1. IF THE CONTRACTOR ELECTS TO REMOVE A SEGMENT OF GUARDRAIL FOR ACCESS TO THE WORK AREA, THE CONTRACTOR SHALL RESET THE GUARDRAIL AT THE END OF THE WORKDAY. ALTERNATIVELY, THE CONTRACTOR SHALL PROTECT THE TEMPORARY BLUNT END WITH A SUITABLE CRASH CUSHION. CRASH CUSHIONS INSTALLED FOR THE CONTRACTOR'S CONVENIENCE WILL NOT BE PAID FOR BUT WILL BE CONSIDERED INCIDENTAL TO THE MAINTENANCE OF TRAFFIC CONTROL DEVICES ITEM.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING		
DESIGN-DETAILED	C. MONASTERO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

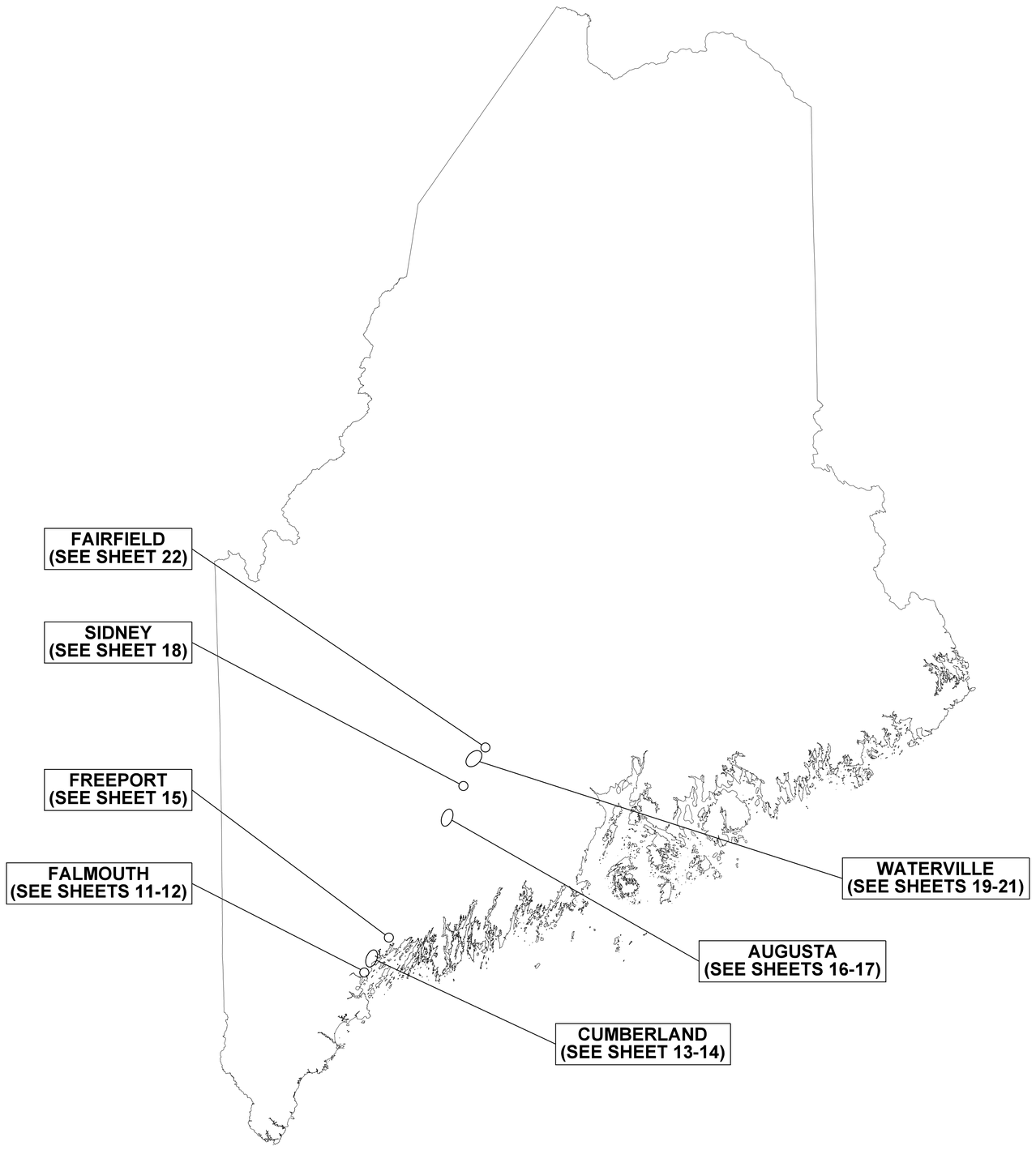
STATEWIDE
CCTV INSTALLATIONS

GENERAL NOTES

SHEET NUMBER

2

OF 25



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING		
DESIGN-DETAILED	C. MONASTERO	BY	DATE
CHECKED-REVIEWED	D. SCHANDEL	B. WALL	11/7/2024
DESIGN2-DETAILED2		M. SUENNEN	11/7/2024
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATEWIDE
CCTV INSTALLATIONS

LOCATION MAPS
(1 OF 3)

SHEET NUMBER

3

OF 25

Filename: ...\cad\ls\plonset\003_Map_01.dgn Division: HIGHWAY Username: dschandel Date:11/7/2024

FALMOUTH

CUMBERLAND/YARMOUTH

FREEPORT

AUGUSTA

PLAN

2000 0 2000 4000

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING	
DESIGN-DETAILED	C. MONASTERO	BY
CHECKED-REVIEWED	D. SCHANDEL	B. WALL
DESIGN2-DETAILED2		M. SUENNEN
DESIGN3-DETAILED3		DATE
REVISIONS 1		11/7/2024
REVISIONS 2		11/7/2024
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

STATEWIDE CCTV INSTALLATIONS

LOCATION MAPS (2 OF 3)

SHEET NUMBER

4

OF 25

SIDNEY

WATERVILLE

PLAN

2000 0 2000 4000

Scale of Feet

FAIRFIELD

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

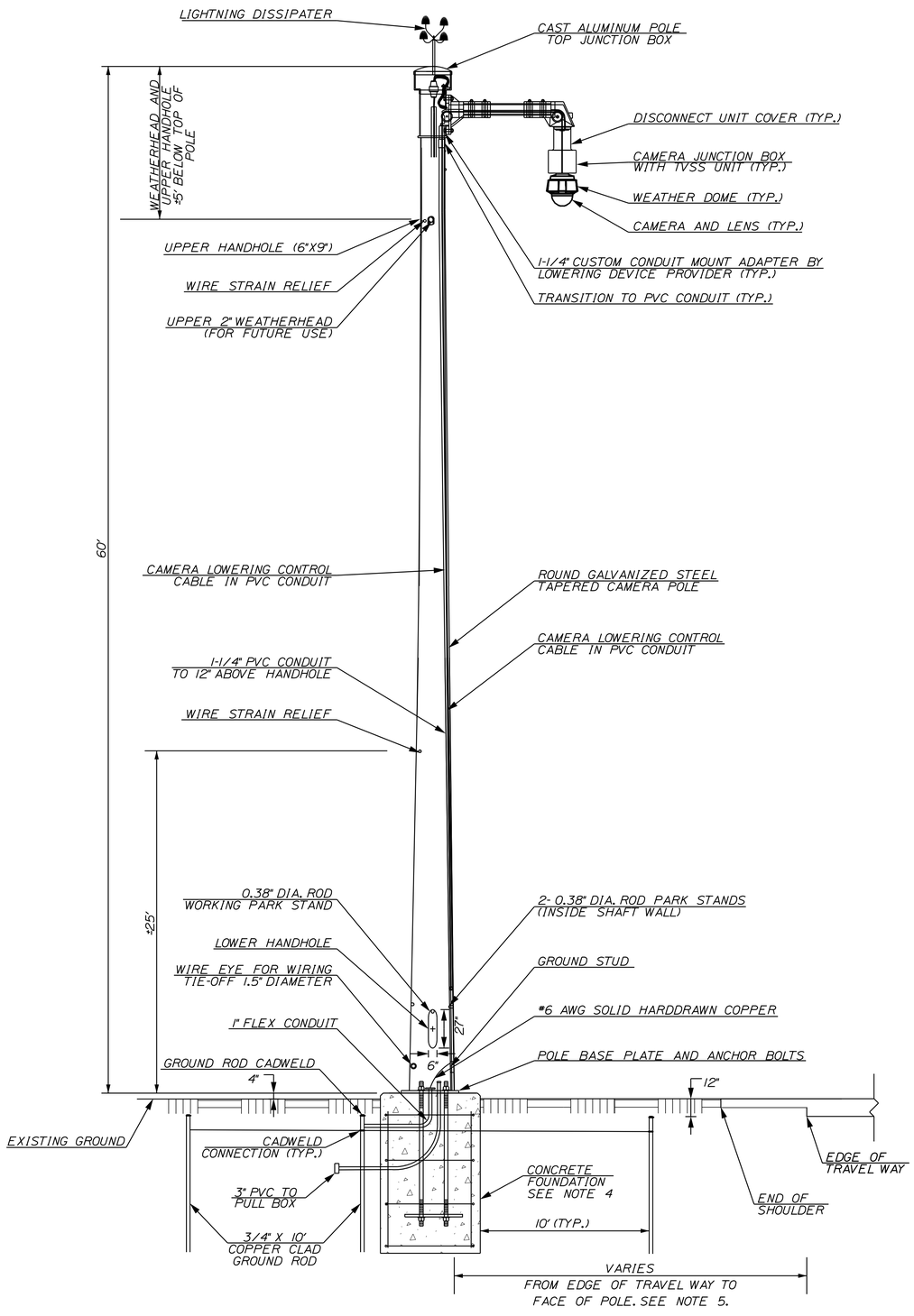
PROJ. MANAGER	D. LORING	BY	DATE
DESIGN-DETAILED	C. MONASTERO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATEWIDE
CCTV INSTALLATIONS
LOCATION MAPS (3 OF 3)

SHEET NUMBER

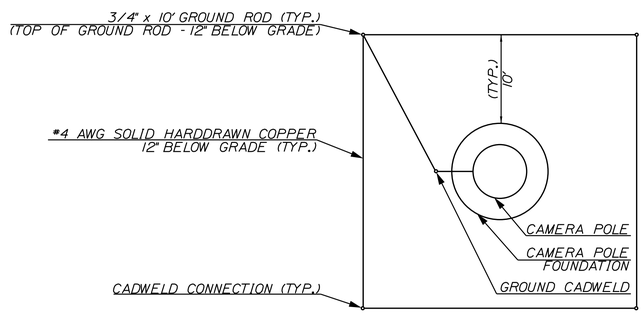
5

OF 25



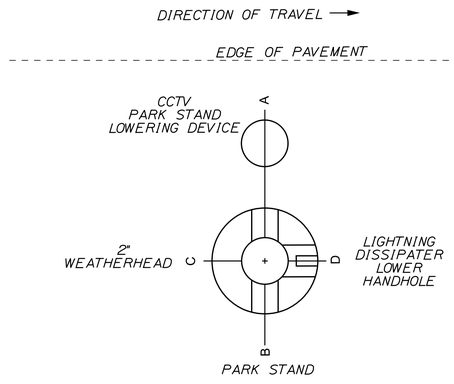
CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM
CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM FOUNDATION

NOT TO SCALE



GROUND ROD
ARRAY DETAIL

NOT TO SCALE



EQUIPMENT AXIS
TOP VIEW

NOT TO SCALE

NOTES:

1. SEE GROUND ROD ARRAY DETAIL (THIS SHEET).
2. CAMERA WIRING INSIDE POLE NOT SHOWN.
3. ALL WEATHERHEADS, HANDHOLES, CONDUIT ACCESS POINTS SHALL BE FACTORY INSTALLED. NO FIELD DRILLING OF POLE IS ALLOWED.
4. SEE CAMERA MONOPOLE FOUNDATION FOR ADDITIONAL INFORMATION FOR THE FOUNDATION.
5. SEE INDIVIDUAL CCTV PLAN SHEETS FOR MORE DETAILS ON OFFSET FROM EDGE OF TRAVEL WAY FOR PROPOSED CCTV POLE.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING		
DESIGN-DETAILED	C. MONASTERO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

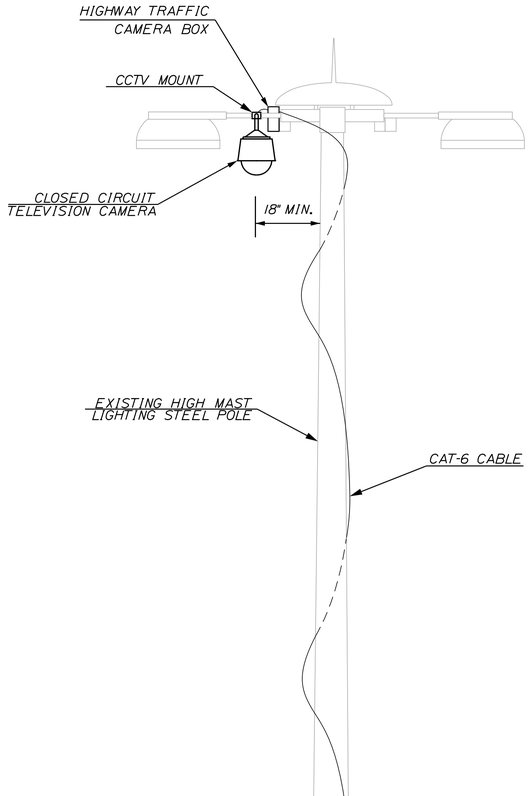
STATEWIDE
CCTV INSTALLATIONS

ITS DETAILS (1 OF 5)

SHEET NUMBER

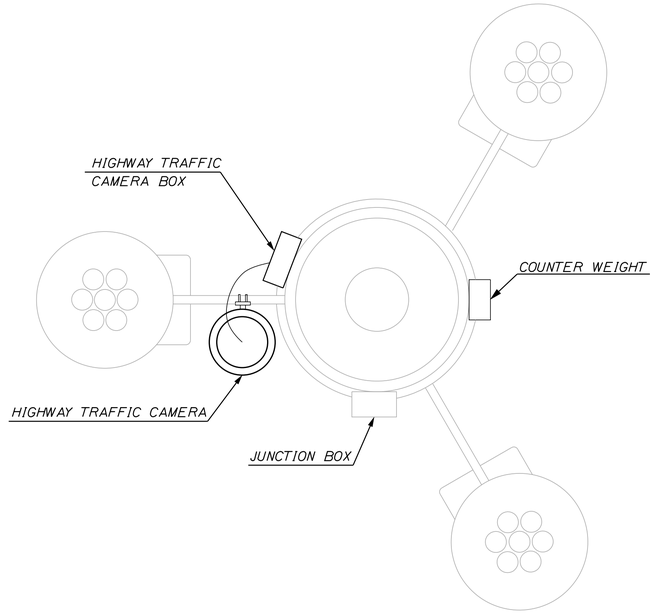
6

OF 25



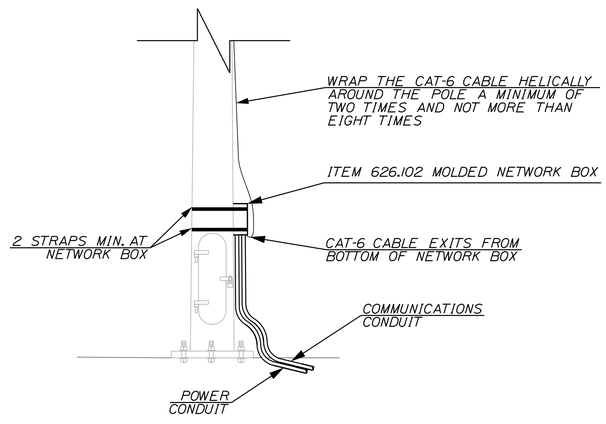
CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM FOR EXISTING HIGH MAST LIGHTING POLE

NOT TO SCALE



CAMERA CONNECTION - HIGH MAST LIGHT

NOT TO SCALE



CLOSED CIRCUIT TELEVISION (CCTV) NETWORK BOX DETAIL FOR EXISTING HIGH MAST LIGHTING POLE AT WATERVILLE SITE

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING	
DESIGN-DETAILED	C. MONASTERO	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN 11/7/2024
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

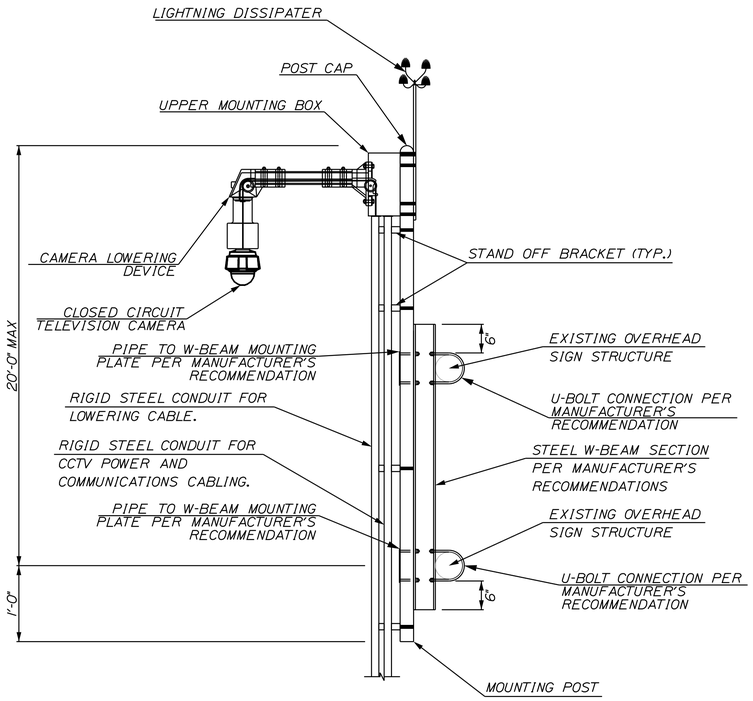
STATEWIDE
CCTV INSTALLATIONS

ITS DETAILS (2 OF 5)

SHEET NUMBER

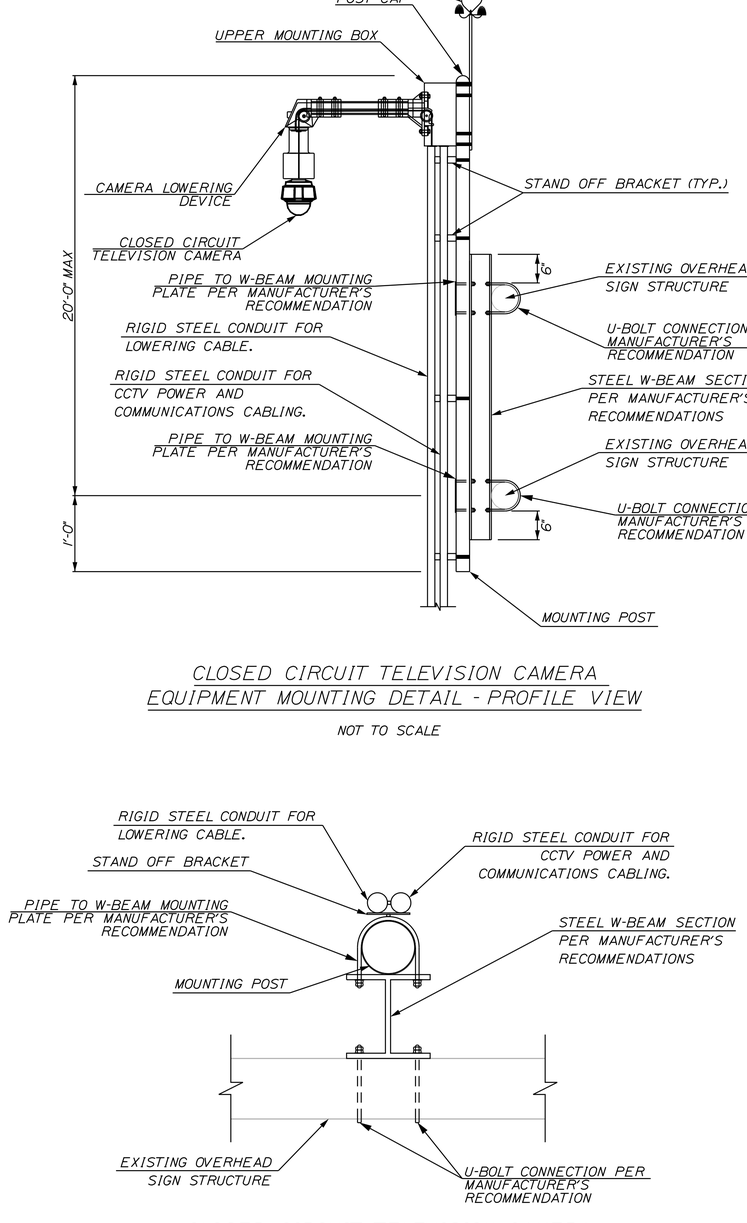
7

OF 25



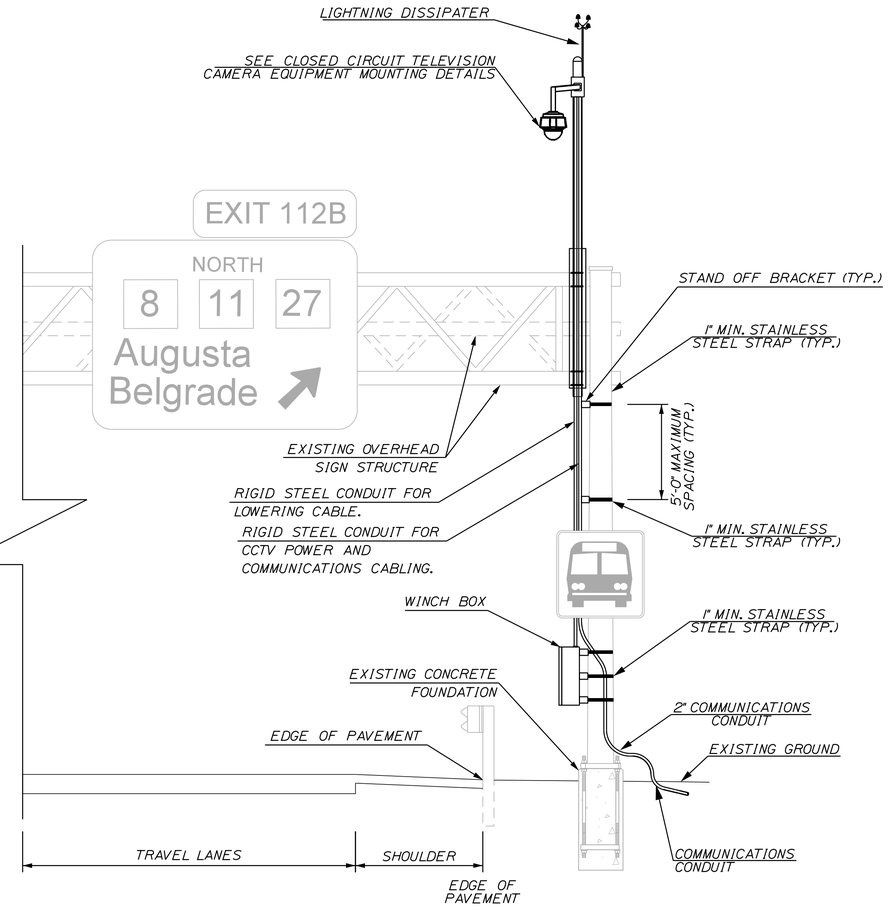
CLOSED CIRCUIT TELEVISION CAMERA
EQUIPMENT MOUNTING DETAIL - PROFILE VIEW

NOT TO SCALE



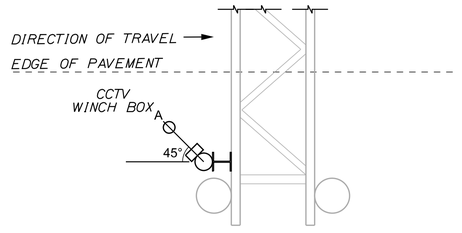
CLOSED CIRCUIT TELEVISION CAMERA
EQUIPMENT MOUNTING DETAIL - PLAN VIEW

NOT TO SCALE



CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM
FOR EXISTING OVERHEAD SIGN STRUCTURE

NOT TO SCALE



EQUIPMENT AXIS
TOP VIEW

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

	BY	DATE
PROJ. MANAGER	D. LORING	
DESIGN-DETAILED	C. MONASTERO	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	11/7/2024
DESIGN2-DETAILED2	B. WALL	11/7/2024
DESIGN3-DETAILED3	M. SUENNEN	11/7/2024
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

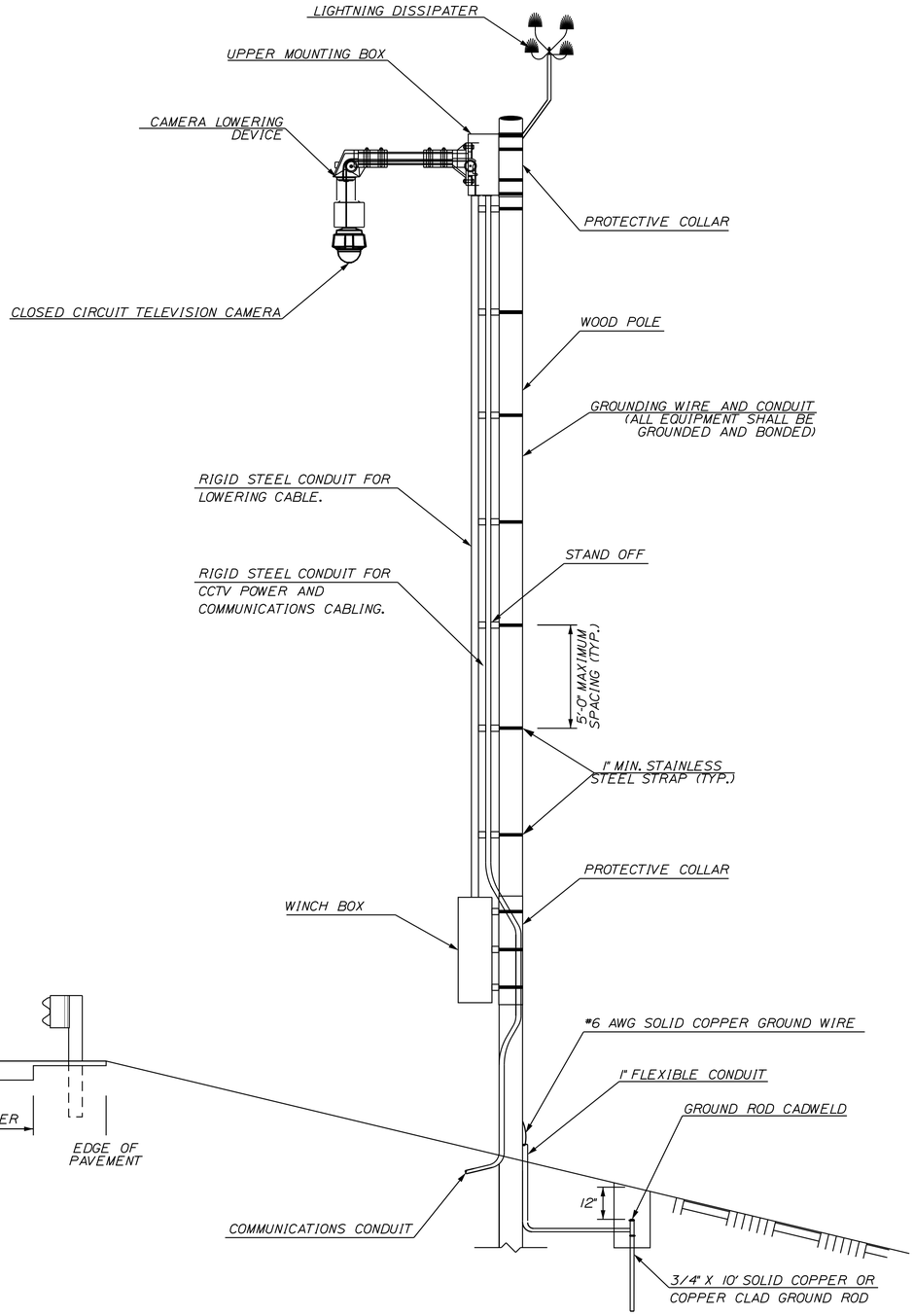
STATEWIDE
CCTV INSTALLATIONS

ITS DETAILS (3 OF 5)

SHEET NUMBER

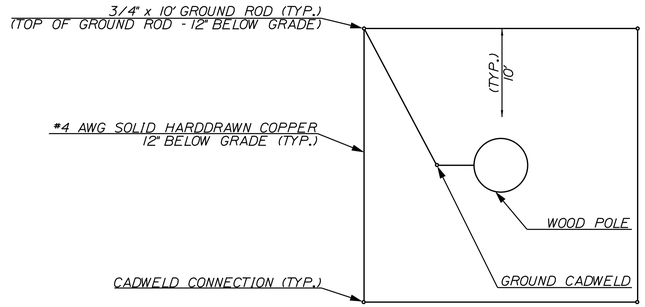
8

OF 25



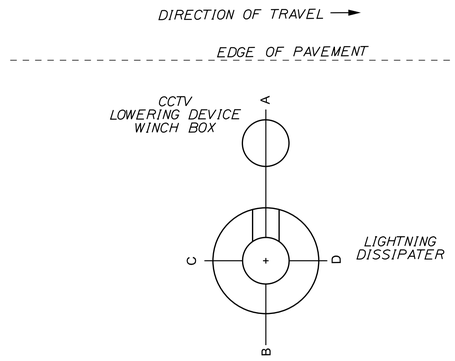
CLOSED CIRCUIT TELEVISION CAMERA WOOD POLE DETAIL

NOT TO SCALE



GROUND ROD ARRAY DETAIL

NOT TO SCALE



EQUIPMENT AXIS TOP VIEW

NOT TO SCALE

NOTES:

1. SEE GROUND ROD ARRAY DETAIL (THIS SHEET).
2. SEE INDIVIDUAL CCTV PLAN SHEETS FOR MORE DETAILS ON OFFSET FROM EDGE OF TRAVEL WAY FOR PROPOSED WOOD POLE.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING
DESIGN-DETAILED	C. MONASTERIO
CHECKED-REVIEWED	D. SCHANDEL
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	DATE	BY
REVISIONS 1	11/7/2024	B. WALL
REVISIONS 2	11/7/2024	M. SUENNEN
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

REMOVE FLASHING BEACONS 07/2024

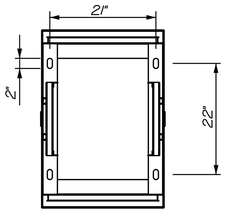
STATEWIDE
CCTV INSTALLATIONS

ITS DETAILS (4 OF 5)

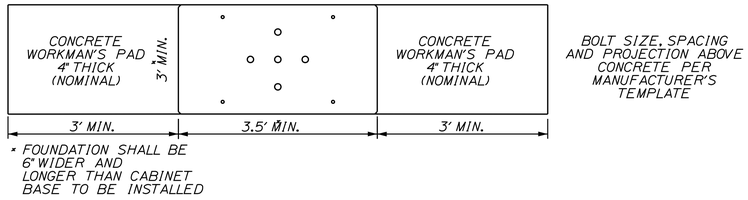
SHEET NUMBER

9

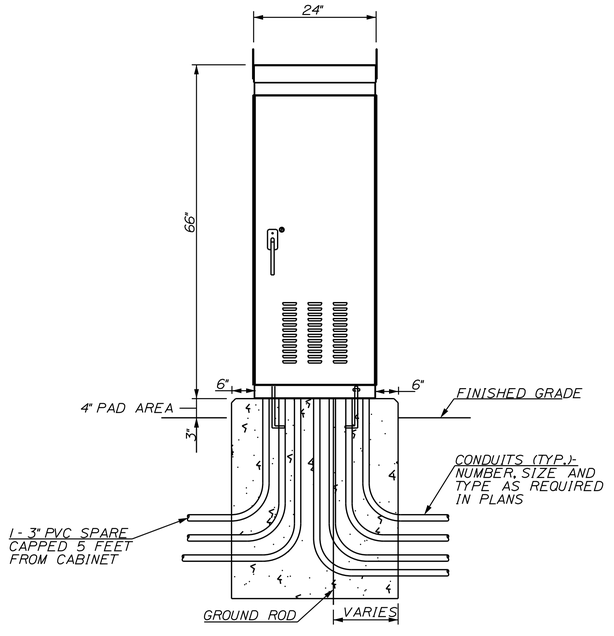
OF 25



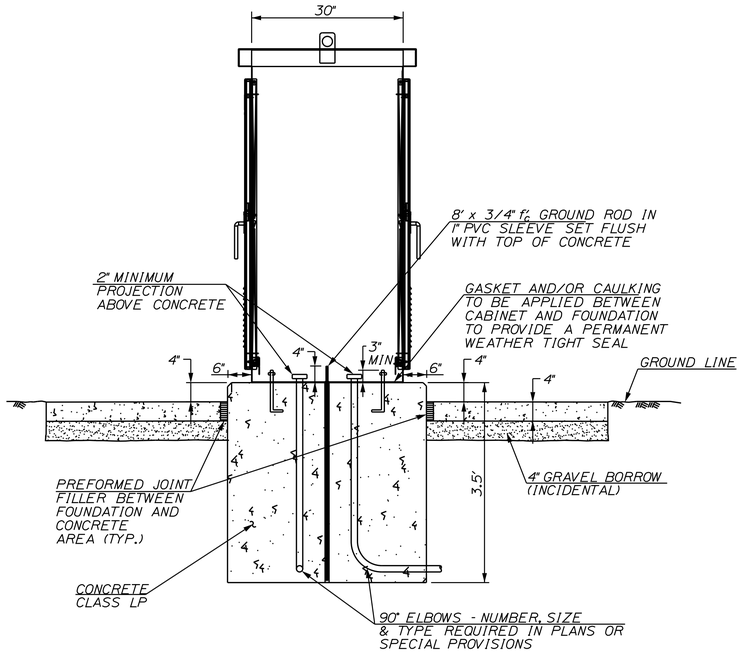
BOTTOM VIEW
(NO COMPONENTS)



GROUND MOUNTED ITS EQUIPMENT CABINET
FOUNDATION PLAN



FRONT & REAR VIEWS



SECTION

GROUND MOUNTED ITS EQUIPMENT CABINET DETAIL

NOT TO SCALE

NOTES:

1. ALL EXPOSED EDGES OF THE FOUNDATION SHALL BE CHAMFERED 3/4".
2. WORKMAN'S PADS (AND CABINET DOORS) SHOULD BE ORIENTED AS SHOWN ON THE PLANS.
3. CONTRACTOR SHALL INSTALL A SPARE 3" PVC CONDUIT CAPPED 5 FEET FROM CABINET AT ALL GROUND MOUNTED LOCATIONS.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

		DATE
PROJ. MANAGER	D. LORING	
DESIGN-DETAILED	C. MONASTERO	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	B. WALL
DESIGN2-DETAILED2		M. SUENNEN
DESIGN3-DETAILED3		11/7/2024
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

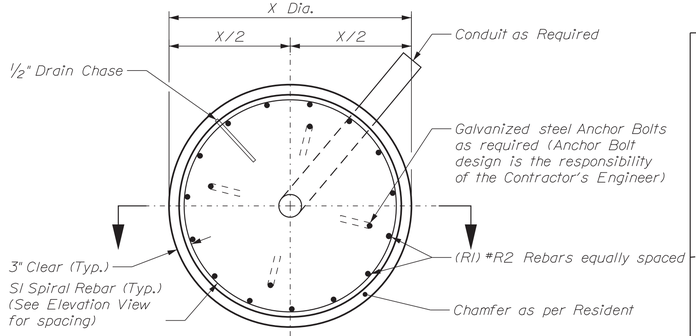
STATEWIDE
CCTV INSTALLATIONS

ITS DETAILS (5 OF 5)

SHEET NUMBER

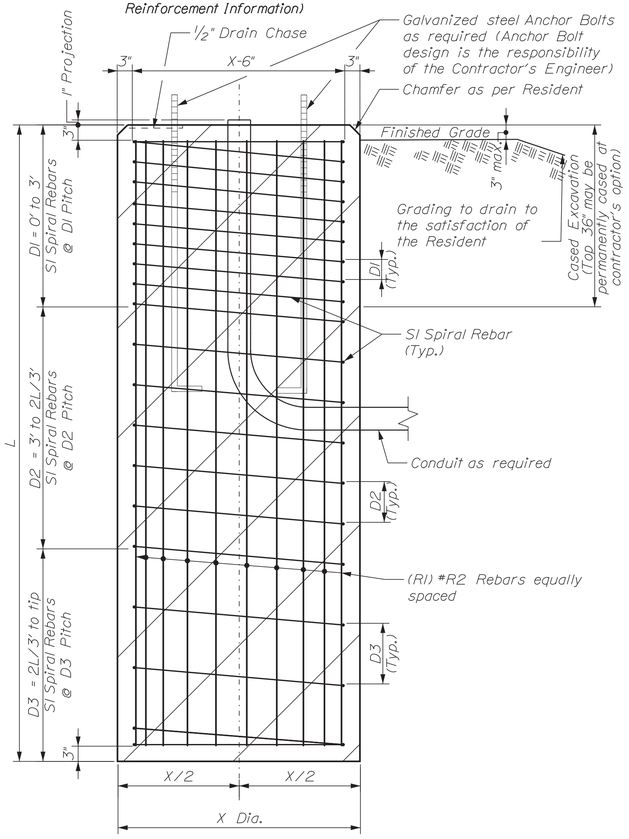
10

OF 25



Drilled Shaft Plan View

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

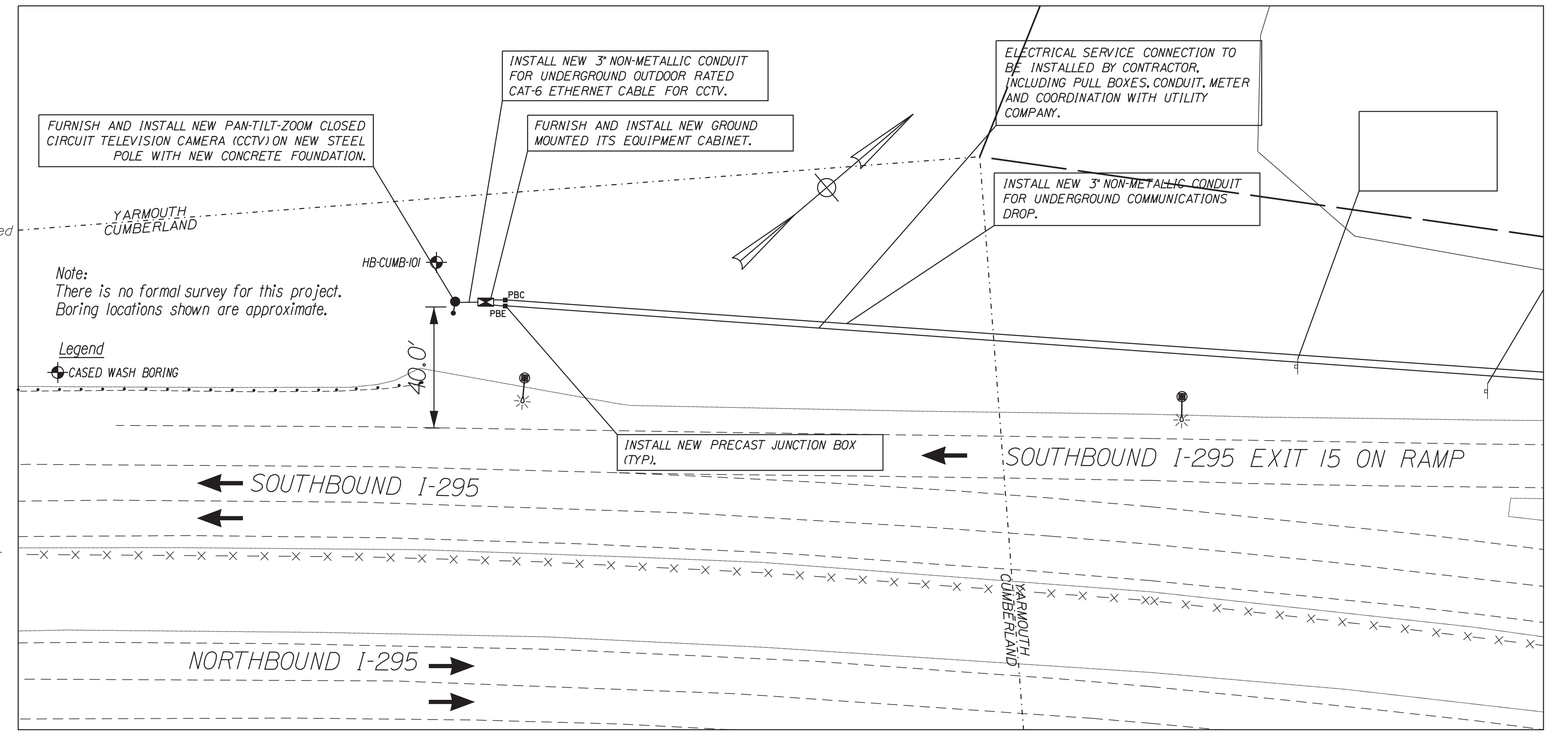


Drilled Shaft Elevation View

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

CCTV POLE: CUMBERLAND

See Boring Location Plan for Boring and CCTV Pole Locations.



CUMBERLAND BORING LOCATION PLAN

NOT TO SCALE

NOTES:

1. All reinforcing steel is to be grade 60 and conform to MaineDOT Standard Specification requirements along with any project specific Supplementals or Special Provisions.
2. All rebar shall have 3" cover unless otherwise noted.
3. Should there be a discrepancy between these Details and actual observed field conditions report it to the Resident immediately.
4. Do not proceed with dependent work until any such discrepancy is resolved to the satisfaction of the Resident.
5. Concrete to be Class LP with f'c = 5,000 PSI.
6. 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 — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: SB I-295, Exit 15 On-Ramp
Location: Cumberland, Maine
Boring No.: HB-CUMB-101
WIN: 26130.00

Driller:	Seaboard Drilling LLC	Elevation (ft.): --	Auger ID/OD: 5" Solid Stem
Operator:	Ryan/Dillon	Datum: NAVD88	Sampler: Standard Split Spoon
Logged By:	B. Wilder/Doggett	Rig Type: Diedrich D-50 Track	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	9/24/2024 09:00-13:30	Drilling Method: Cased Wash Boring	Core Barrel: NQ-2"
Boring Location:	43°46'59.14"N, 70°11'37.29"W	Casing ID/OD: NW-3"	Water Level(ft): 4.0 ft bgs.
Hammer Efficiency Factors: 1.087		Hammer Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
S = Split Spoon Sample
WO = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. FP = Pocket Penetrometer
WV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Rotary Cone
WOH = Weight of 140lb. Hammer
WOR = Weight of Rods or Casing
WOP = Weight of One Person

S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf); T_{vf} = Pocket Torvane Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf); WC = Water Content, percent
q_u = Unconfined Compressive Strength (ksf); LL = Liquid Limit
N-uncorrected = Raw Field SPT N-value; PI = Plasticity Index
Hammer Efficiency Factor = Rig Specific Annual Calibration Value; D_{50} = Grain Size Analysis
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency; C = Consolidation Test
N_{60} = Hammer Efficiency Factor/60%•N-uncorrected

Depth (ft.)	Sample No.	Rec./Pen. (in.)	Sample Depth (ft.)	Blows per 6in. Interval or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0	1D	24/20	0.00 – 2.00	3/4/5/5	9	16	SSA			Olive brown, moist, medium dense, Silty fine to coarse SAND, trace gravel. (Fill).	
											4.0
5	2D	24/24	5.00 – 7.00	5/8/8/7	16	29				Olive brown, moist, medium dense, Silty fine to medium SAND, trace clay.	
											8.5
10	3D WO	24/17	10.00 – 12.00 10.00 – 10.83	1/2/1/4 Would not push	3	5				Olive brown, wet, loose, Silty fine to medium SAND. Failed 55x110 mm vane attempt.	
										Very dense at 12.8 ft bgs.	
15	R1	36/30	13.40 – 16.40	RQD = 30%			NQ-2			Top of Bedrock R1: Bedrock: Calcareous SANDSTONE and Interbedded SANDSTONE and Impure LIMESTONE, [Vassalboro Formation]. Rock Quality = Poor R1: Core Times (min/sec): 13.4-14.4 ft (2:00) 14.4-15.4 ft (5:50) 15.4-16.4 ft (6:00) 83% Recovery	13.4
20										Bottom of Exploration at 16.4 feet below ground surface.	16.4
24											

Remarks:
Auto Hammer #362

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-CUMB-101

DRILLED SHAFT FOUNDATIONS

CCTV Pole	Latitude	Longtitude	X Diameter (feet)	L Length (feet)	R1 Longitudinal Rebars Quantity	R2 Longitudinal Rebars Size	S1 Spiral Rebars Size	Spiral Bar Spacing D1 (in) 0 to 3 ft	Spiral Bar Spacing D2 (in) 3 ft to 2L/3 ft	Spiral Bar Spacing D3 (in) 2L/3 ft to tip
Cumberland	43°46'59.14"N	70°11'37.29"W	3.0	11.0	15	#8	#5	4	8	12

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 261300

WIN 026130.00

HIGHWAY PLANS

STATE OF MAINE — Cody A. Russell — 15866 — LICENSED PROFESSIONAL ENGINEER

Cody A Russell

	DATE	BY
PROJ. MANAGER		D. LORING
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
15866
P.E. NUMBER
11/6/2024
11/7/2024
DATE

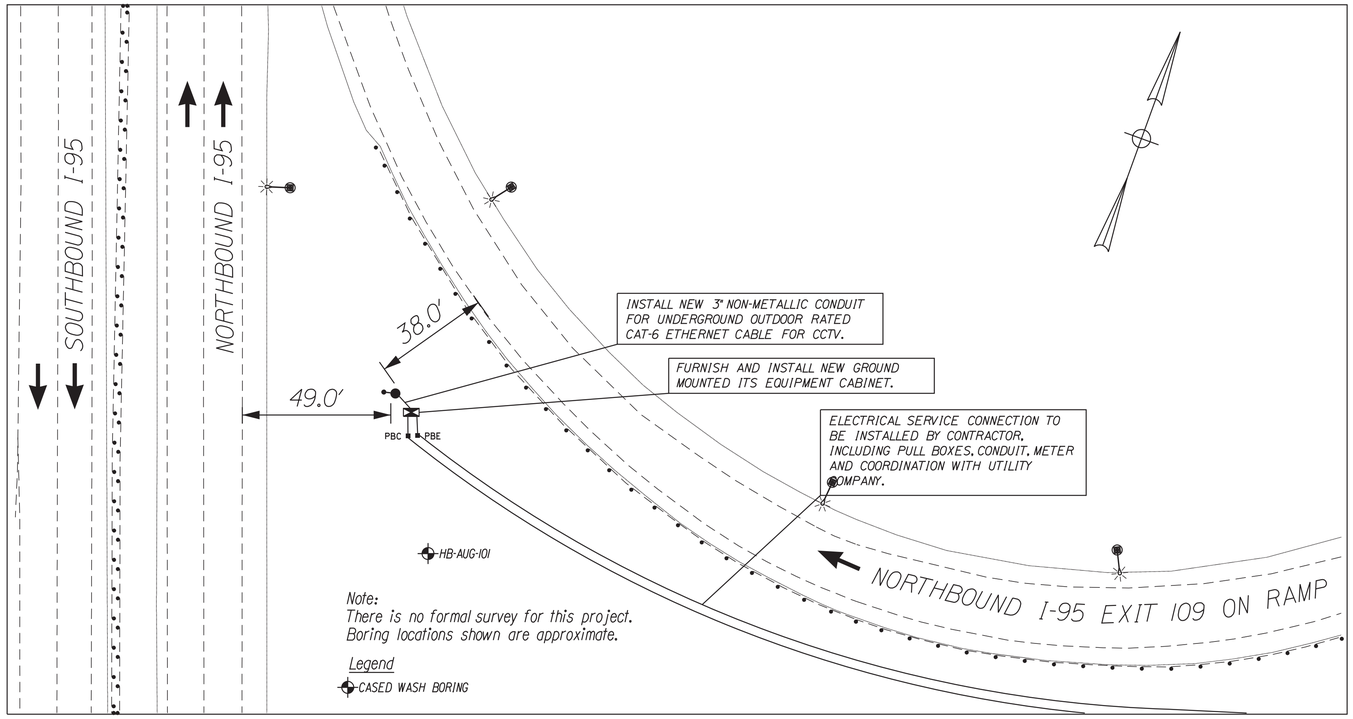
STATEWIDE
CCTV INSTALLATIONS
DRILLED SHAFT FOUNDATION & BORING LOCATION PLAN WITH BORING LOG

SHEET NUMBER

11

OF 25

Filename: ...\MSTA\010_DSF&BLP wBL.dgn Division: GEOTECH Username: Cody.A.Russell Date:11/7/2024



AUGUSTA BORING LOCATION PLAN

NOT TO SCALE

Maine Department of Transportation
Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: CCTV Pole, NB Off-Ramp I-95, Exit 109
Location: Augusta, Maine

Boring No.: HB-AUG-101
WIN: 26130.00

Driller:	Seaboard Drilling LLC	Elevation (ft.): ~~	Auger ID/OD: 5" Solid Stem
Operator:	Ryan/Dillion	Datum: NAVD88	Sampler: Standard Split Spoon
Logged By:	B. Wilder/Daggett	Rig Type: Diedrich D-50 Track	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	9/23/20241 09:30-11:00	Drilling Method: Cased Wash Boring	Core Barrel: NQ-2"
Boring Location:	44°18'50.14"N, 69°48'36.00"W	Casing ID/OD: HW-4"	Water Level*: 8.0 ft bgs.

Hammer Efficiency Factor: 1.087 — Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer, WOR/C = Weight of Rods or Casing
MV = Unsuccessful Field Vane Shear Test Attempt, WOH = Weight of the Person
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
N_{60} = SPT Hammer Efficiency Corrected N-Value
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf), S_u (psf) = Lab Vane Undrained Shear Strength (psf), q_u = Unconfined Compressive Strength (psf)
Nuncorrected = Raw Field SPT N-value
Hammer Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT Nuncorrected Corrected for Hammer Efficiency
N_{60} = Hammer Efficiency Factor (60%) Nuncorrected
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blow Counts (# per 6 in.) Shear Strength (psf) or RQD (%)	Nuncorrected	N_{60}	Testing Class	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
										0.3 ft TOPSOIL.	
	1D	24/20	0.00 – 2.00	3/4/4/4	8	14	SSA			0.3 1D (0.3-2.0 ft) Olive, moist, medium stiff, fine to medium Sandy SILT, with roots.	
5										4.5	
	2D	24/24	5.00 – 7.00	2/3/2/3	5	9				Olive brown, wet, medium stiff, Clayey SILT, little fine sand.	
10	3D MV	24/20	10.00 – 12.00 Hand 11.00	2/2/2/2 Would not push.	4	7				10.0 Grey, wet, very loose, Silty fine SAND, trace clay. Failed 55x110 mm vane attempt.	
										13.3	
15	4D	15.6/13	15.00 – 16.30	9/11/50/3.6"	---					Brown, wet, very dense, fine to coarse SAND, some silt, some gravel.	
	R1	60/56	16.50 – 21.50	RQD = 17%			050 N25-2			16.3 50 blows for 0.3 ft. Top of Bedrock Roller coned ahead to 16.5 ft bgs. 16.5 R1: Bedrock: Intrusive Devonian muscovite-biotite quartz MONZONITE. Rock Quality = Very Poor R1 Core Times (min/sec): 16.5-17.5 ft (21:08) 17.5-18.5 ft (31:00) 18.5-19.5 ft (31:27) 19.5-20.5 ft (31:55) 20.5-21.5 ft (31:44) 93% Recovery	
20										21.5 Bottom of Exploration at 21.5 feet below ground surface.	
25											

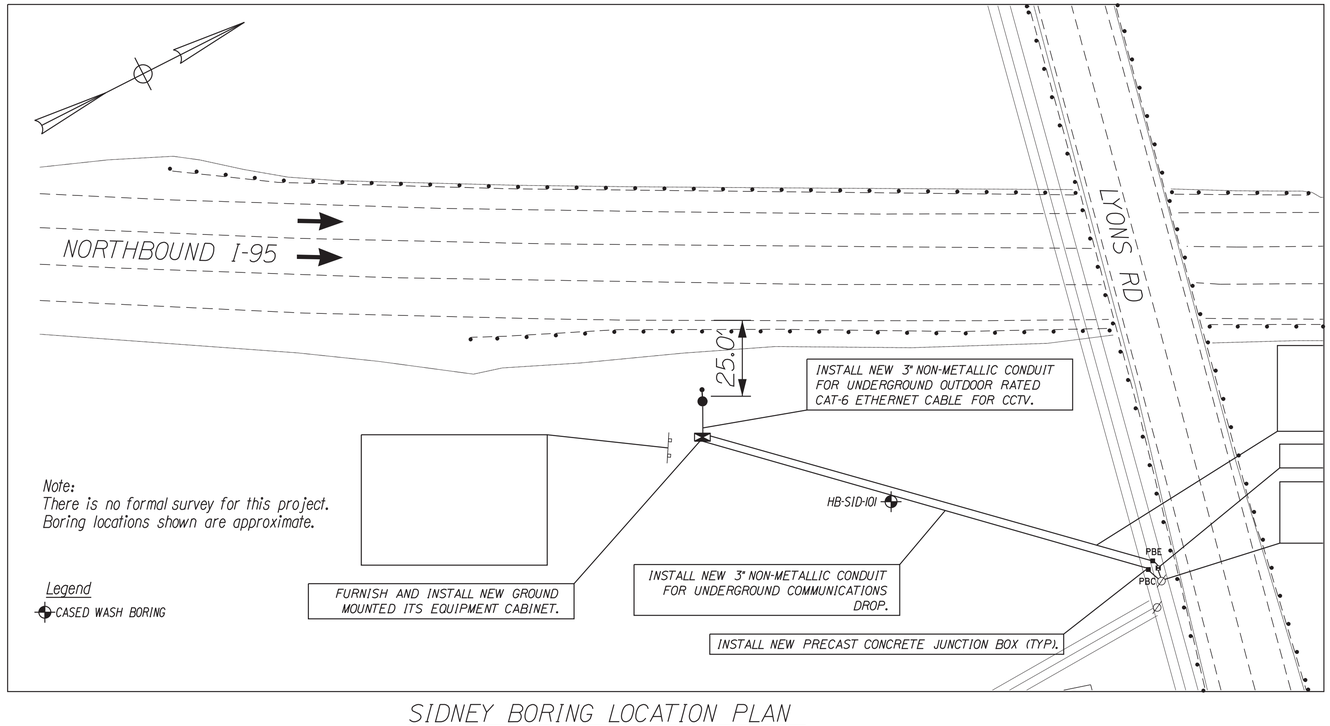
Remarks:
Auto Hammer #362

Stratification lines represent approximate boundaries between soil typesd transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: HB-AUG-101



SIDNEY BORING LOCATION PLAN

NOT TO SCALE

Maine Department of Transportation
Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: CCTV Pole, Mainline I-95, Exit 120
Location: Sidney, Maine

Boring No.: HB-SID-101
WIN: 26130.00

Driller:	Seaboard Drilling LLC	Elevation (ft.): ~~	Auger ID/OD: 2.25/6.75"
Operator:	Ryan/Dillion	Datum: NAVD88	Sampler: Standard Split Spoon
Logged By:	B. Wilder/Daggett	Rig Type: Diedrich D-50 Track	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	9/23/20241 13:00-14:30	Drilling Method: Hollow Stem Auger	Core Barrel: N/A
Boring Location:	44°27'09.92"N, 69°42'56.44"W	Casing ID/OD: N/A	Water Level*: 7.5 ft bgs.

Hammer Efficiency Factor: 1.087 — Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer, WOR/C = Weight of Rods or Casing
MV = Unsuccessful Field Vane Shear Test Attempt, WOH = Weight of the Person
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
N_{60} = SPT Hammer Efficiency Corrected N-Value
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf), S_u (psf) = Lab Vane Undrained Shear Strength (psf), q_u = Unconfined Compressive Strength (psf)
Nuncorrected = Raw Field SPT N-value
Hammer Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT Nuncorrected Corrected for Hammer Efficiency
N_{60} = Hammer Efficiency Factor (60%) Nuncorrected
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blow Counts (# per 6 in.) Shear Strength (psf) or RQD (%)	Nuncorrected	N_{60}	Testing Class	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
										0.3 ft TOPSOIL.	
	1D	24/19	0.00 – 2.00	2/3/5/7	8	14	HSA			0.3 1D (0.3-2.0 ft bgs) Light brown, damp, loose, Silty fine to coarse SAND, trace gravel. (Fill).	
5										4.0	
	2D	24/21	5.00 – 7.00	4/6/6/8	12	22				Olive brown, mist, stiff, Clayey SILT, trace fine sand with roots.	
10	3D MV	24/16	10.00 – 12.00 Hand 11.00	14/20/24/22 Would not push.	44	80				9.5 Grey, wet, dense, fine to coarse SAND, some silt, some gravel, (Till). Failed 55x110 mm vane attempt.	
15	4D	24/14	15.00 – 17.00	20/18/40/35	58	105				Similar to 3D, except very dense.	
20	5D	24/14	20.00 – 22.00	39/22/49/55	71	129				Similar to 4D. 22.0 Bottom of Exploration at 22.0 feet below ground surface. NO REFUSAL	
25											

Remarks:
Auto Hammer #362

Stratification lines represent approximate boundaries between soil typesd transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: HB-SID-101

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 261300

WIN 026130.00

HIGHWAY PLANS

STATE OF MAINE — Cody A. Russell — 15866 — LICENSED PROFESSIONAL ENGINEER

Cody A. Russell

P.E. NUMBER	15866	
DATE	11/7/2024	
SIGNATURE		

	BY	DATE
PROJ. MANAGER	D. LORING	
DESIGN-DETAILED	------	------
CHECKED-REVIEWED	------	------
DESIGN2-DETAILED2	C.RUSSELL	11/6/2024
DESIGN3-DETAILED3	T. WHITE	------
REVISIONS 1	------	------
REVISIONS 2	------	------
REVISIONS 3	------	------
REVISIONS 4	------	------
FIELD CHANGES	------	------

STATEWIDE
CCTV INSTALLATIONS

BORING LOCATION PLANS
WITH BORING LOGS

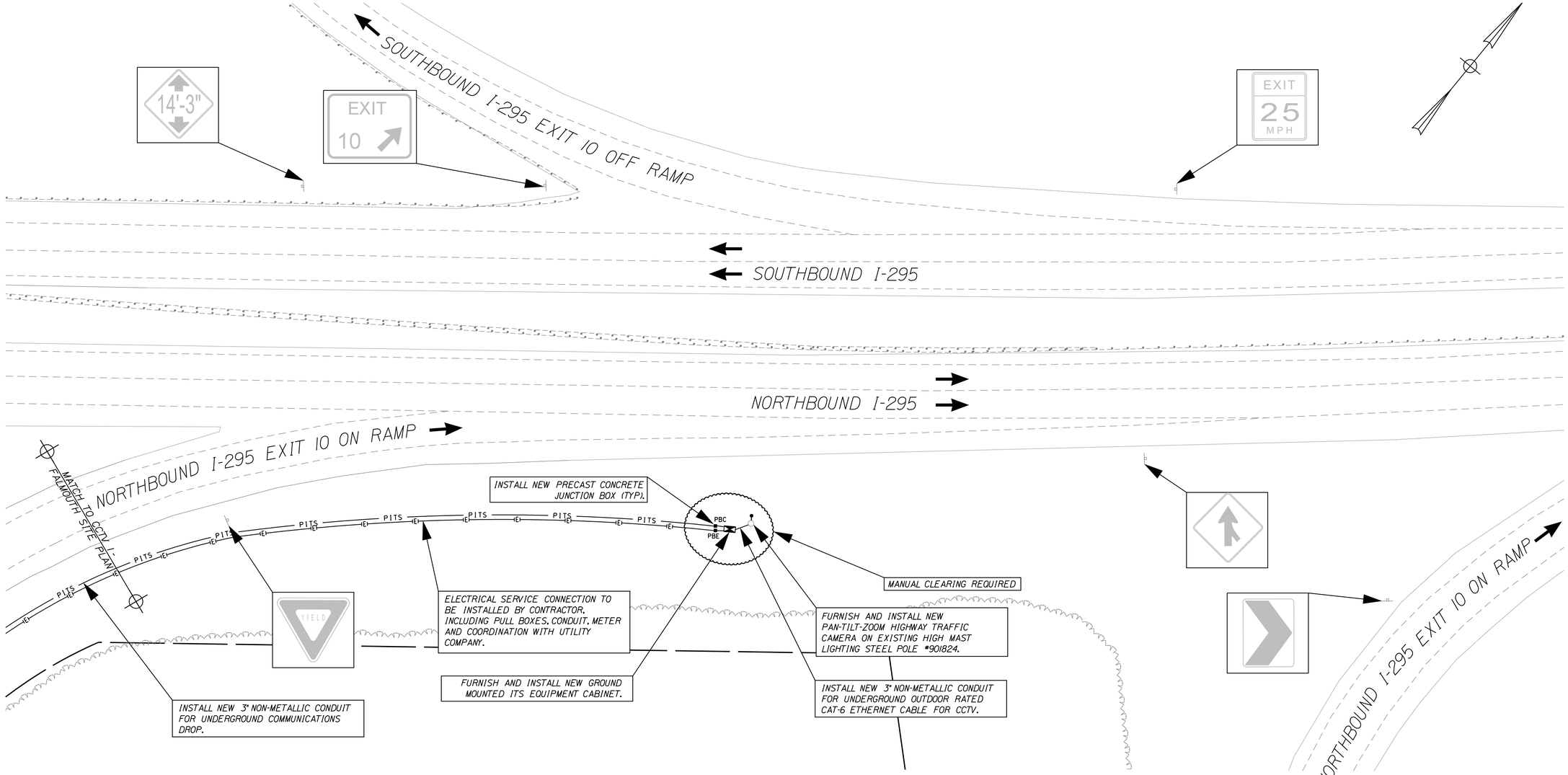
SHEET NUMBER

12

OF 25

Username: Cody.A.Russell Date:11/7/2024

Filename: ...\GEOTECH\MSTA\011_BLP wBL.dgn Division: GEOTECH



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	8 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	2160 LF
626.251	NON-METALLIC CONDUIT (3-INCH) UNDER PAVEMENT	160 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.102	CAMERA CONNECTION - HIGH MAST LIGHT	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: FALMOUTH	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: FALMOUTH	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2, PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (2 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED CCTV MOUNTING DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

	D. LORING	BY
PROJ. MANAGER		
DESIGN-DETAILED	C. MONASTERO	B. WALL
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

DATE
11/7/2024
11/7/2024

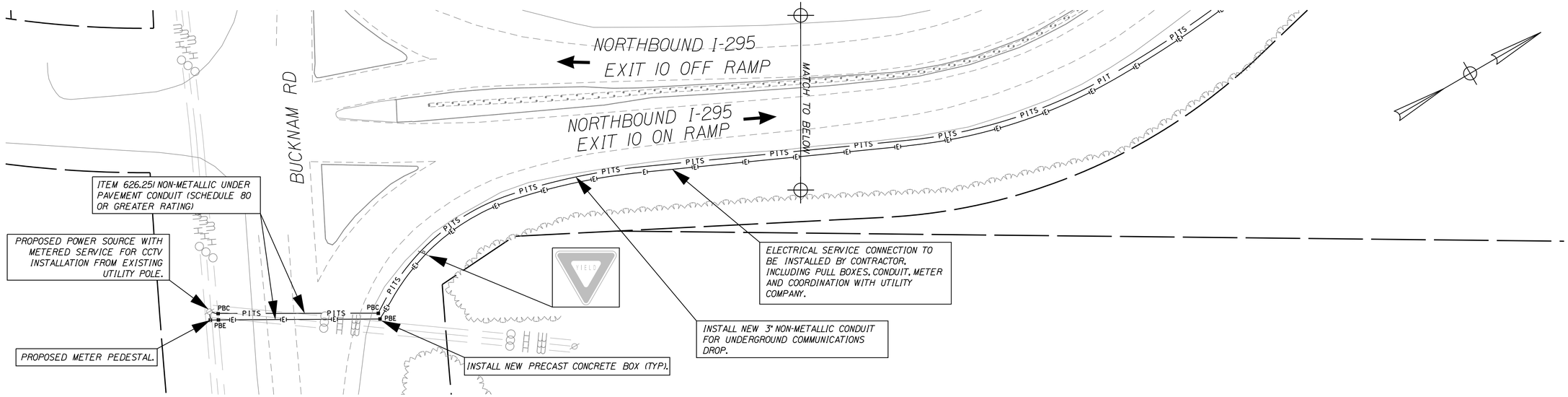
STATEWIDE
CCTV INSTALLATIONS

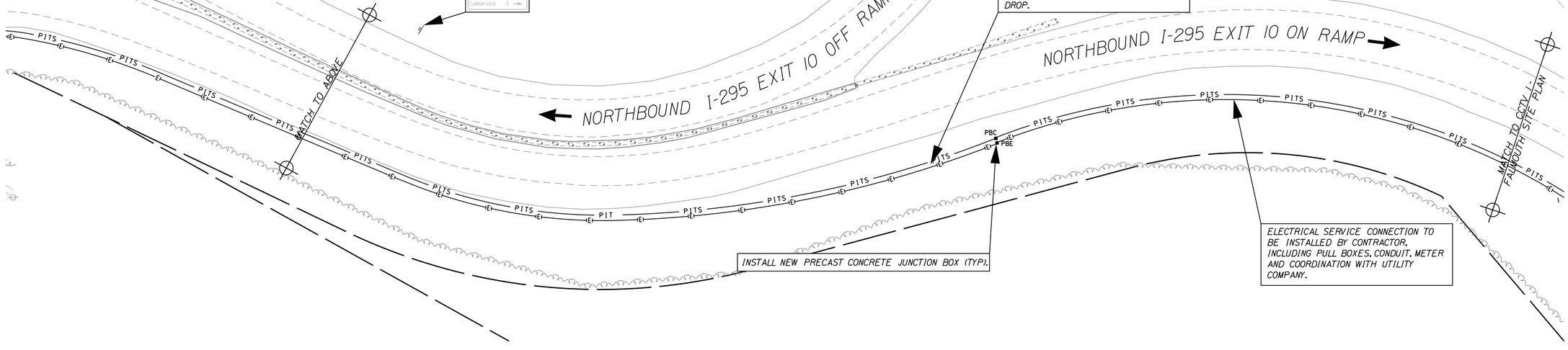
CCTV 1 - FALMOUTH
SITE PLAN(1 OF 2)

SHEET NUMBER

13

OF 25





NOTES

1. THE CONTRACTOR SHALL DIRECTIONAL BORE ONE 3-INCH CONDUIT FOR POWER, AND ONE 3-INCH CONDUIT FOR COMMUNICATIONS UNDER BUCKNAM RD.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER		
DESIGN-DETAILED	D. LORING	11/7/2024
CHECKED-REVIEWED	C. MOMSTERO	B. WALL
DESIGN2-DETAILED2	D. SCHANDEL	M. SUENNEN
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

STATEWIDE
CCTV INSTALLATIONS

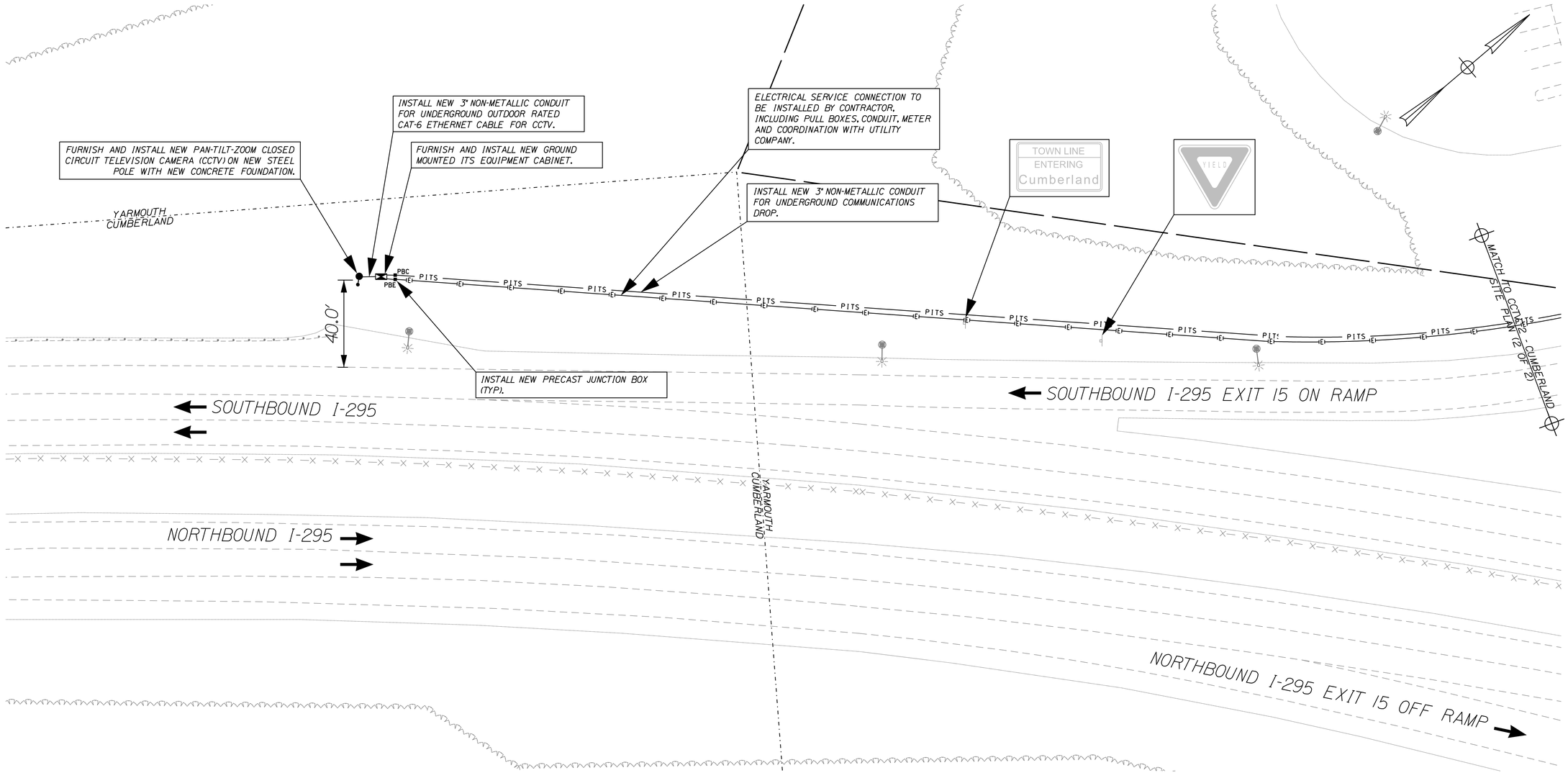
CCTV 1 - FALMOUTH
SITE PLAN (2 OF 2)

SHEET NUMBER

14

OF 25

Filename: ...\ts\planset\014_Plan_01A.dgn Division: HIGHWAY Username: dschandel Date:11/7/2024



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	10 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	3460 LF
626.251	NON-METALLIC CONDUIT (3-INCH) UNDER PAVEMENT	190 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
626.44	36-INCH DIAMETER FOUNDATION	11 LF
654.211	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM	1 LS
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: YARMOUTH	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: YARMOUTH	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2. PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (1 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED STEEL CCTV POLE.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING		
DESIGN-DETAILED	C. MONASTERO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

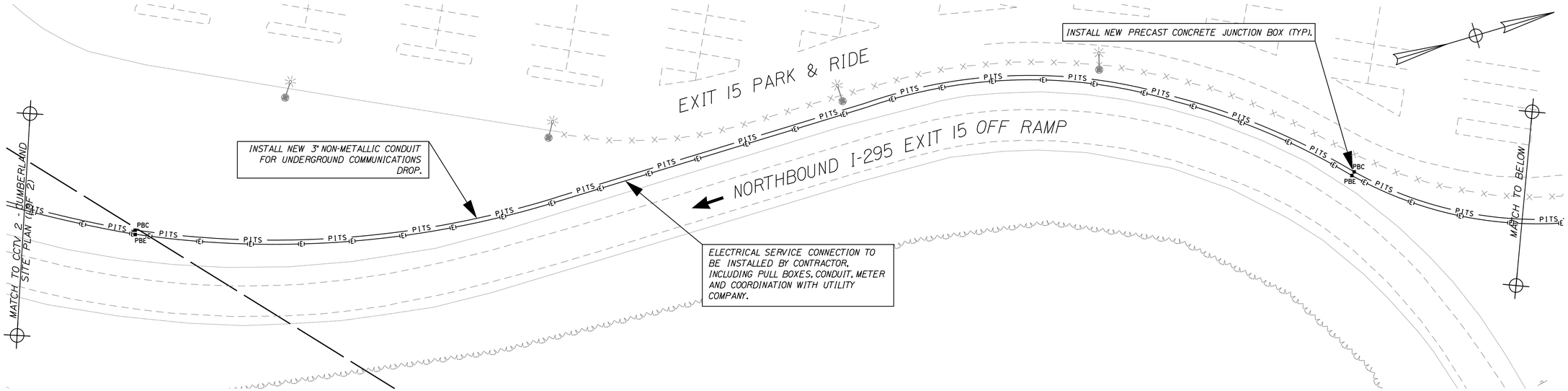
STATEWIDE
CCTV INSTALLATIONS

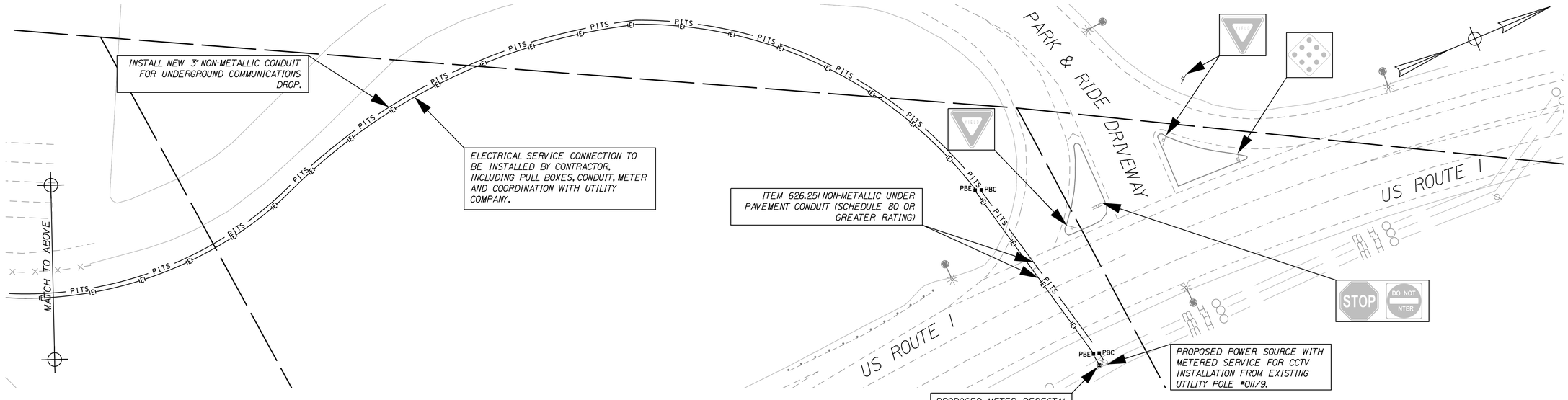
CCTV 2 - CUMBERLAND
SITE PLAN (1 OF 2)

SHEET NUMBER

15

OF 25





NOTES

1. THE CONTRACTOR SHALL DIRECTIONAL BORE ONE 3-INCH CONDUIT FOR POWER, AND ONE 3-INCH CONDUIT FOR COMMUNICATIONS UNDER US ROUTE 1.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING		
DESIGN-DETAILED	C. MONASTERO	BY	B. WALL
CHECKED-REVIEWED	D. SCHANDEL	BY	M. SUENNEN
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES		DATE	11/7/2024

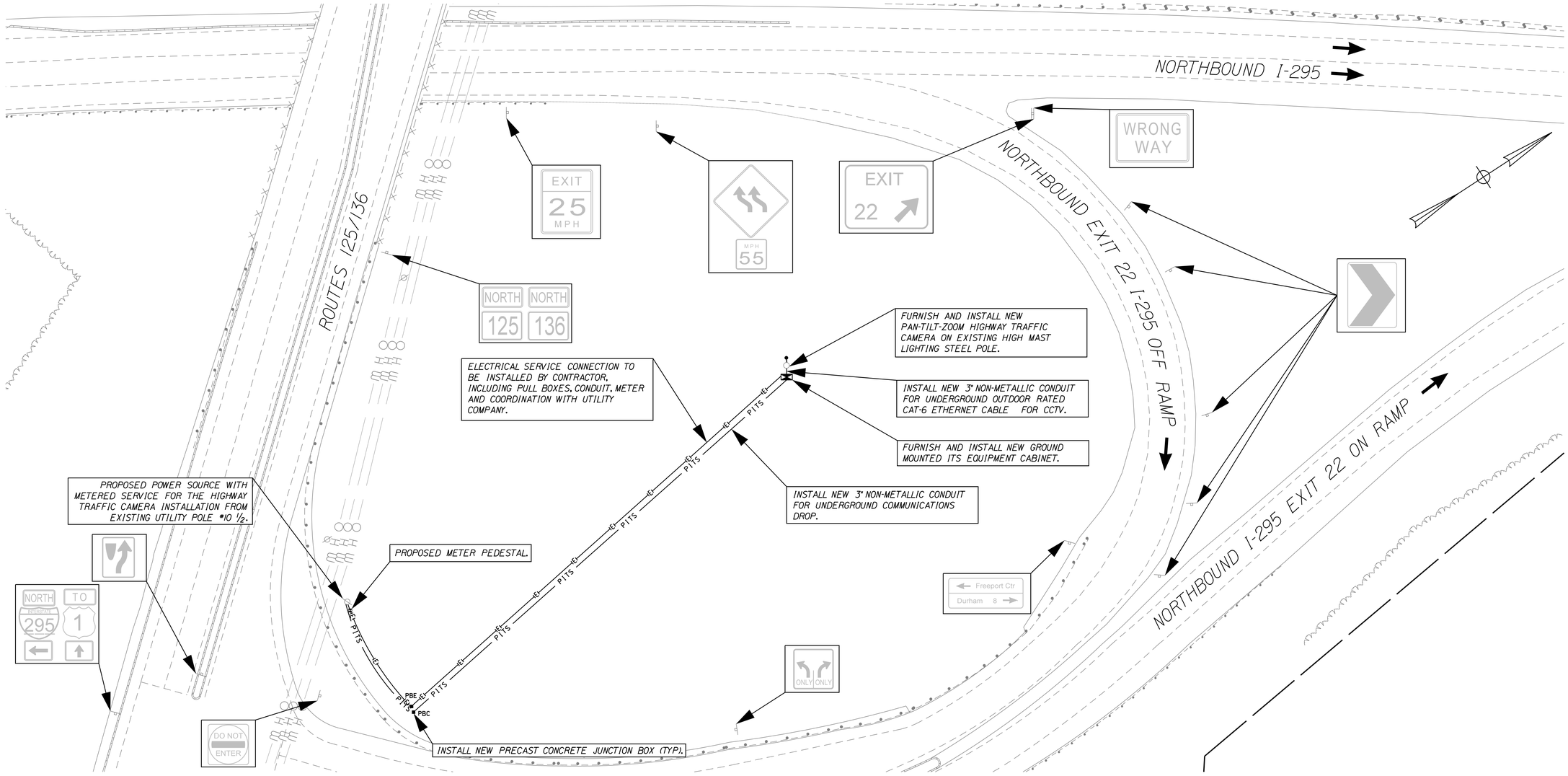
STATEWIDE
CCTV INSTALLATIONS

CCTV 2 - CUMBERLAND
SITE PLAN (2 OF 2)

SHEET NUMBER

16

OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	2 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	590 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.102	CAMERA CONNECTION - HIGH MAST LIGHT	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: FREEPORT	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: FREEPORT	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2, PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (2 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED CCTV MOUNTING DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

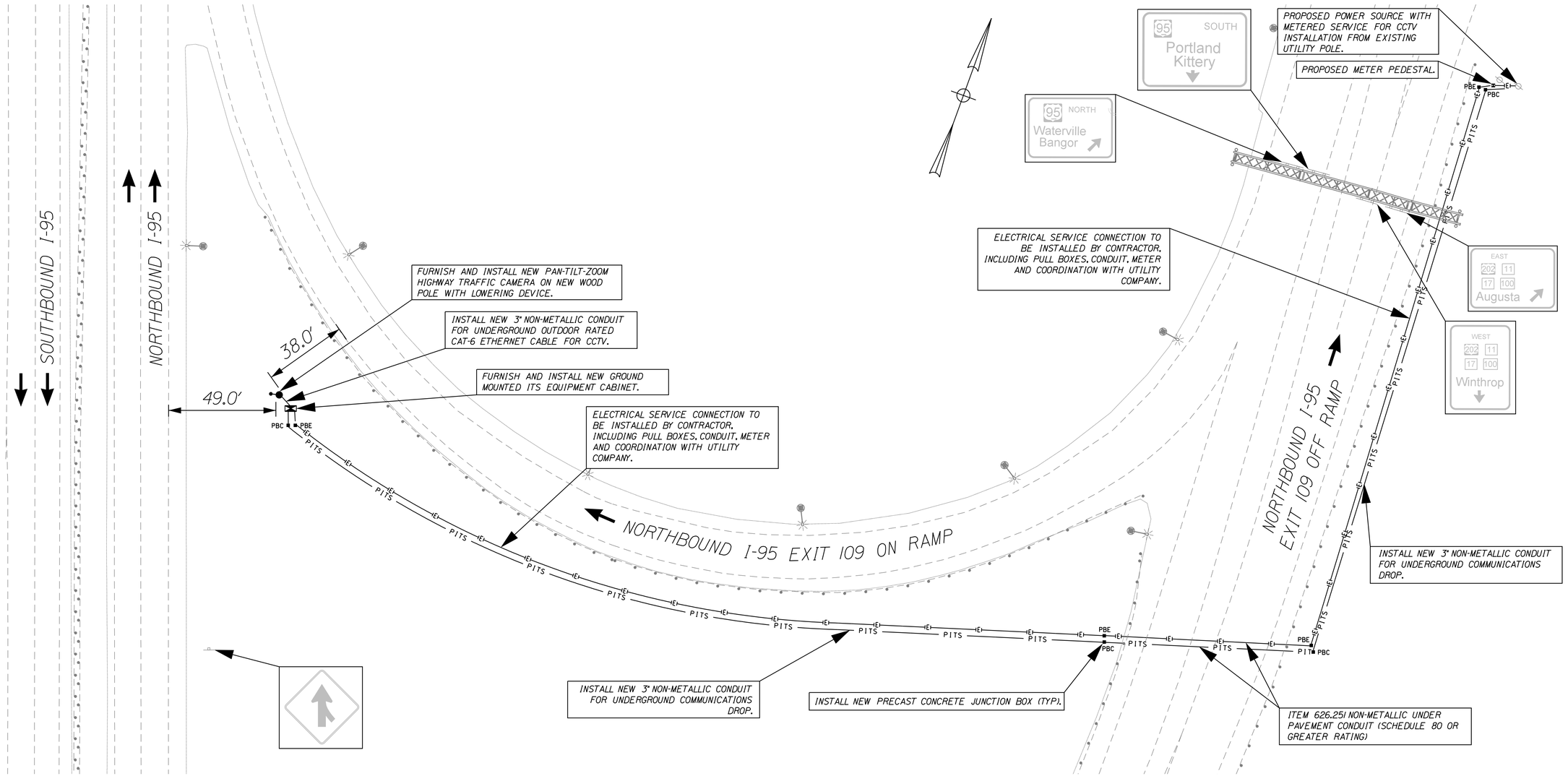
	BY	DATE
PROJ. MANAGER	D. LORNIG	
DESIGN-DETAILED	C. MONASTERIO	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	11/7/2024
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	B. WALL	11/7/2024
REVISIONS 2	M. SUENNEN	11/7/2024
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

STATEWIDE
CCTV INSTALLATIONS
CCTV 3 - FREEPORT
SITE PLAN

SHEET NUMBER

17

OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	8 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	1370 LF
626.251	NON-METALLIC CONDUIT (3-INCH) UNDER PAVEMENT	190 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
643.972	WOOD POLE	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.101	CAMERA CONNECTION - MAST ARM	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: AUGUSTA (EXIT 109)	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: AUGUSTA (EXIT 109)	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2, PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (4 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED WOOD CCTV POLE.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.
5. THE CONTRACTOR SHALL DIRECTIONAL BORE ONE 3-INCH CONDUIT FOR POWER, AND ONE 3-INCH CONDUIT FOR COMMUNICATIONS UNDER NORTHBOUND I-95 EXIT 109 OFF RAMP.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

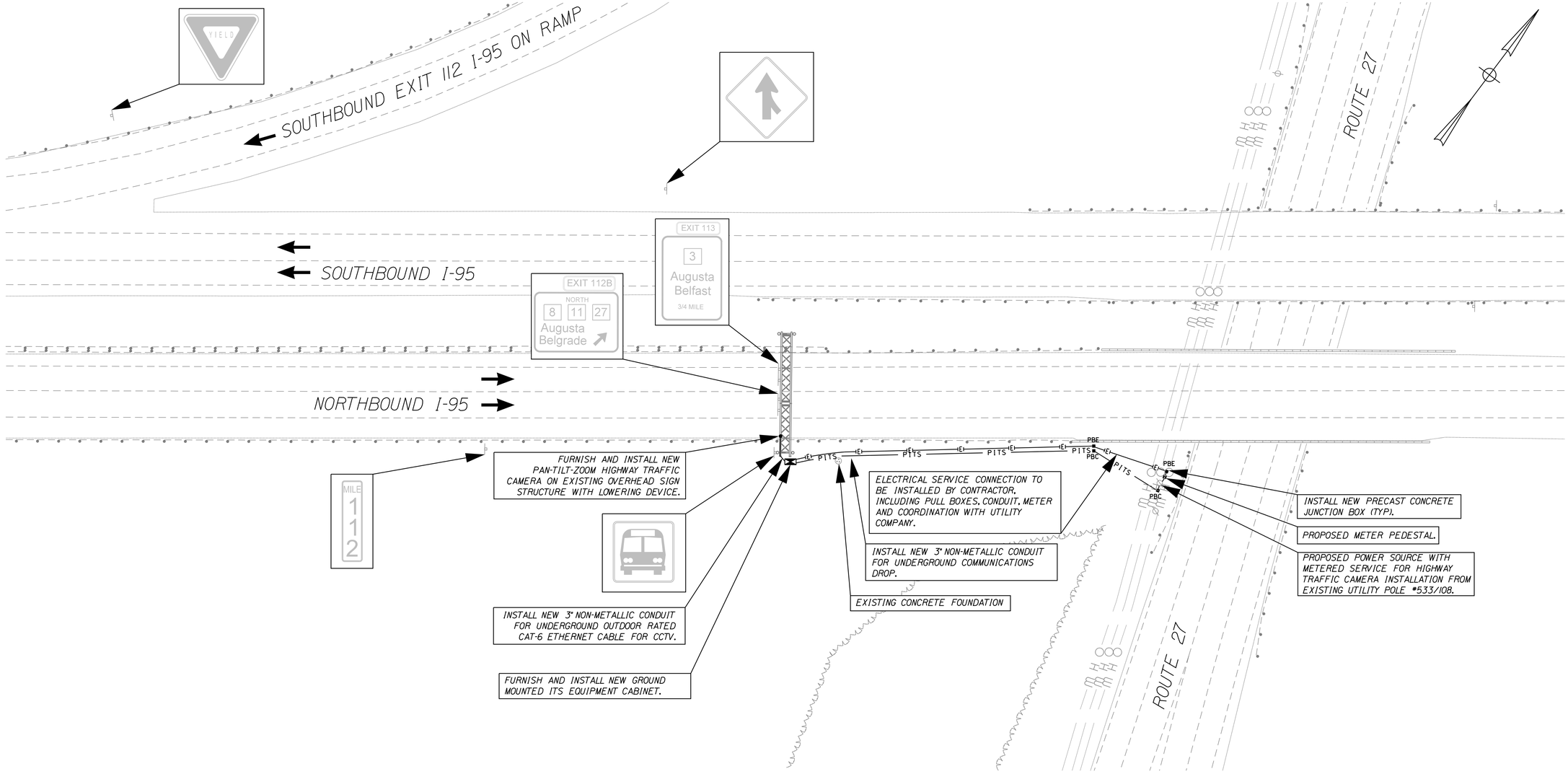
	D. LORING	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	C. MONASTERIO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATEWIDE
CCTV INSTALLATIONS
CCTV 4 - AUGUSTA
SITE PLAN

SHEET NUMBER

18

OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	4 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	390 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.103	CAMERA CONNECTION - OVERHEAD SIGN STRUCTURE	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: AUGUSTA (EXIT 112)	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: AUGUSTA (EXIT 112)	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2, PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (3 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED CCTV OVERHEAD SIGN STRUCTURE MOUNTING DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

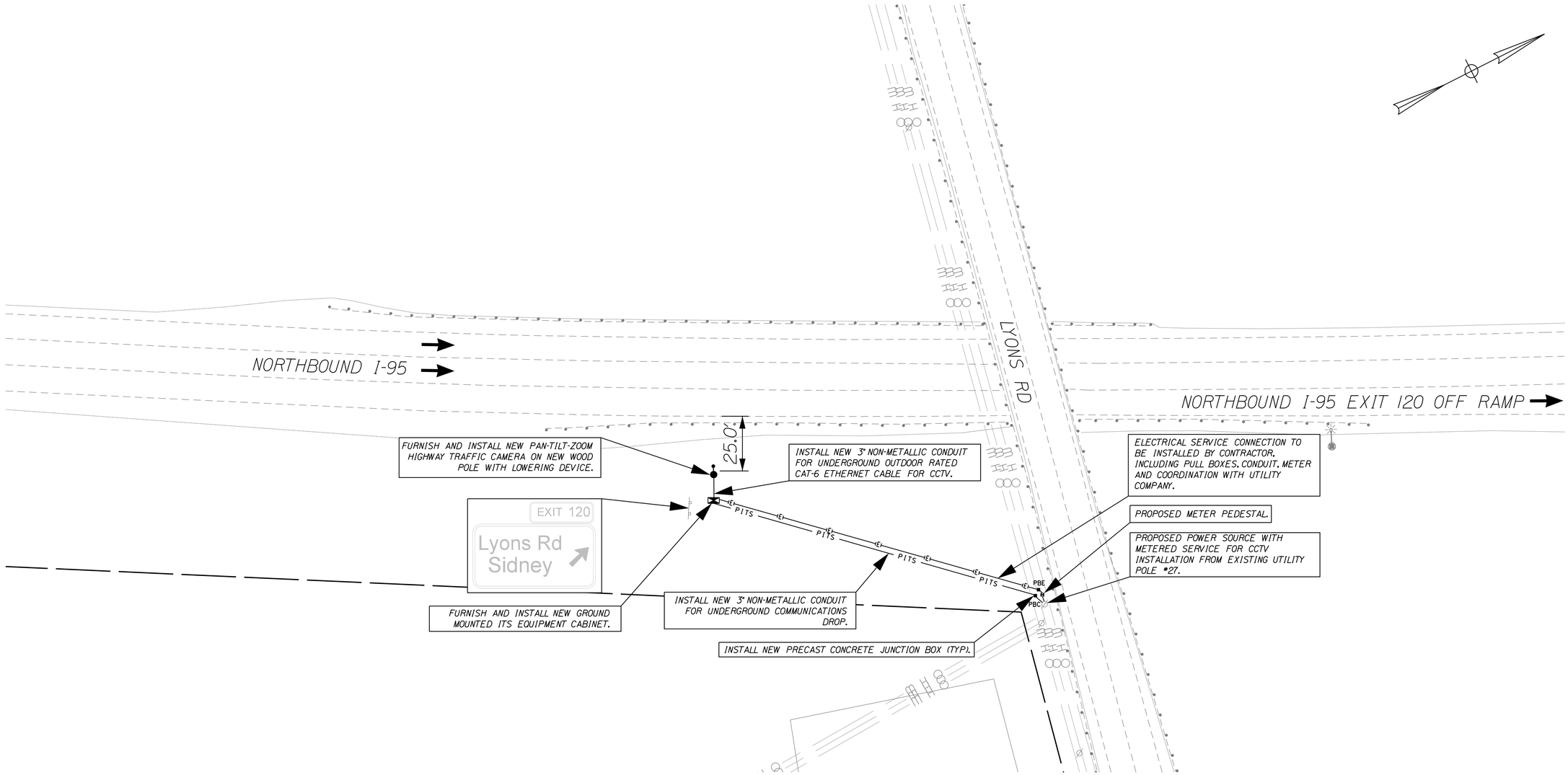
	D. LORING	11/7/2024
PROJ. MANAGER		
DESIGN-DETAILED	C. MONASTERO	B. WALL
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

STATEWIDE
CCTV INSTALLATIONS
CCTV 5 - AUGUSTA
SITE PLAN

SHEET NUMBER

19

OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	2 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	350 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
643.972	WOOD POLE	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.101	CAMERA CONNECTION - MAST ARM	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: SIDNEY	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: SIDNEY	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2, PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (4 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED WOOD CCTV POLE DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING	BY	DATE
DESIGN-DETAILED	C. MONASTERIO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

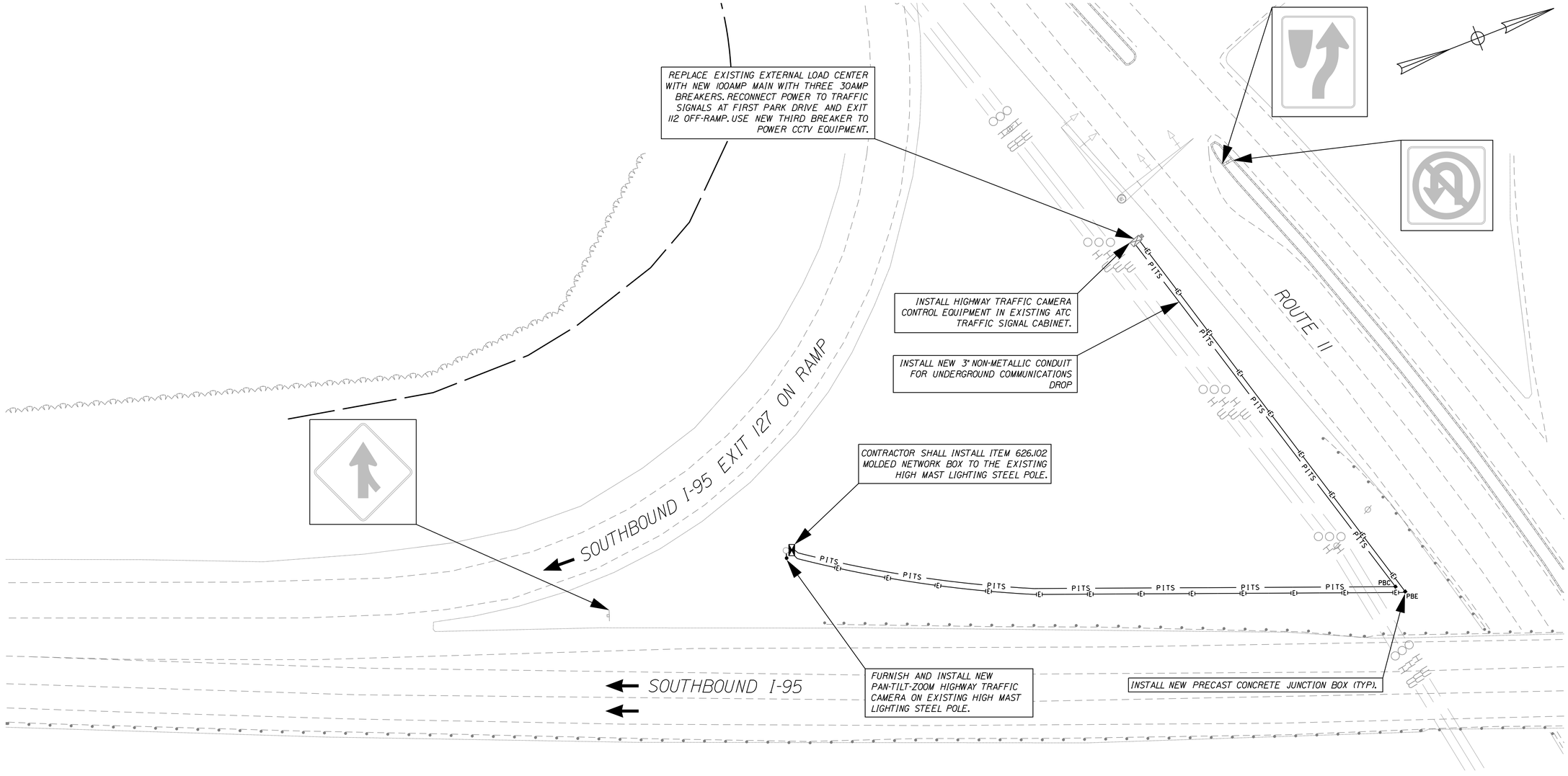
STATEWIDE
CCTV INSTALLATIONS

CCTV 6 - SIDNEY
SITE PLAN

SHEET NUMBER

20

OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.102	MOLDED NETWORK BOX	1 EA
626.11	PRECAST CONCRETE JUNCTION BOX	2 EA
626.22	NON-METALLIC CONDUIT (3-INCH)	980 LF
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.102	CAMERA CONNECTION - HIGH MAST LIGHT	1 EA
654.3333	SINGLE MODE FIBER OPTIC CABLE	520 LF
654.51	ELECTRICAL SERVICE CONNECTION: WATERVILLE (EXIT 127)	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2. PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (2 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED CCTV MOUNTING DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50
Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

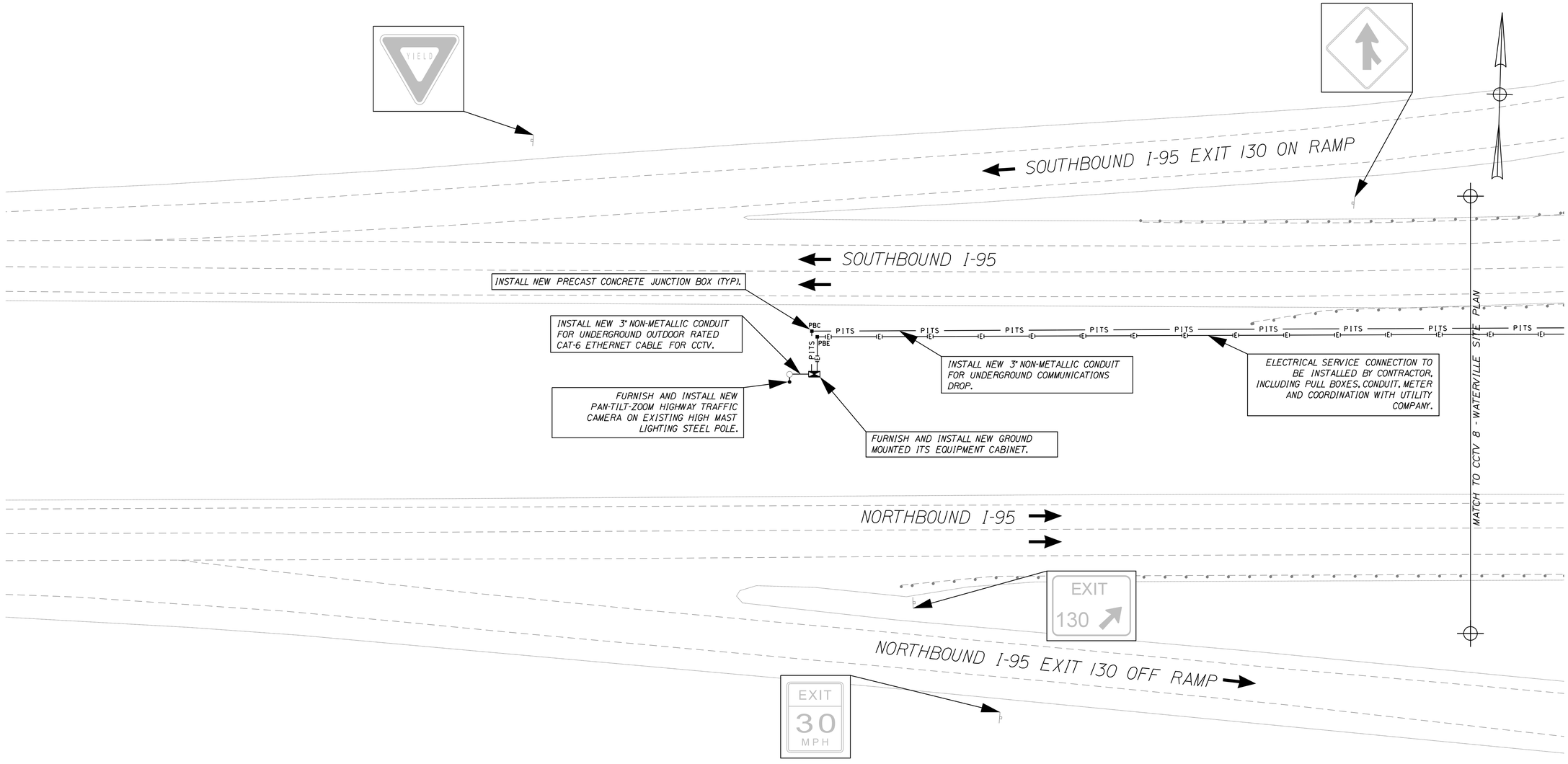
vhb

PROJ. MANAGER	D. LORING	BY	DATE
DESIGN-DETAILED	C. MONASTERO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATEWIDE
CCTV INSTALLATIONS

CCTV 7 - WATERVILLE
SITE PLAN

SHEET NUMBER
21
OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	10 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	1500 LF
626.251	NON-METALLIC CONDUIT (3-INCH) UNDER PAVEMENT	310 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.102	CAMERA CONNECTION - HIGH MAST LIGHT	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: WATERVILLE (EXIT 130)	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: WATERVILLE (EXIT 130)	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2. PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (2 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED CCTV MOUNTING DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN
026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING	BY	DATE
DESIGN-DETAILED	C. MONASTERO	B. WALL	11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN	11/7/2024
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATEWIDE
CCTV INSTALLATIONS

CCTV 8 - WATERVILLE
SITE PLAN

SHEET NUMBER

22

OF 25

Filename: ...\cad\ls\plonset\022_Plan_08.dgn Division: HIGHWAY Username: dschandel Date:11/7/2024

SOUTHBOUND I-95 EXIT 130 ON RAMP

SOUTHBOUND I-95

MATCH TO CCTV 8 - WATERVILLE SITE PLAN

NORTHBOUND I-95

NORTHBOUND I-95 EXIT 130 OFF RAMP

MAIN ST

14'-1"

PROPOSED POWER SOURCE WITH METERED SERVICE FOR HIGHWAY TRAFFIC CAMERA INSTALLATION FROM EXISTING UTILITY POLE #58.

PROPOSED METER PEDESTAL.

ITEM 626.251 NON-METALLIC UNDER PAVEMENT CONDUIT (SCHEDULE 80 OR GREATER RATING)

ITEM 626.251 NON-METALLIC UNDER PAVEMENT CONDUIT (SCHEDULE 80 OR GREATER RATING)

INSTALL NEW 3" NON-METALLIC CONDUIT FOR UNDERGROUND COMMUNICATIONS DROP.

INSTALL NEW PRECAST CONCRETE BOX (TYP).

ELECTRICAL SERVICE CONNECTION TO BE INSTALLED BY CONTRACTOR, INCLUDING PULL BOXES, CONDUIT, METER AND COORDINATION WITH UTILITY COMPANY.

PBC PBE PITS (E)

SOUTH INTERSTATE 95

14'-1"

NOTES

1. THE CONTRACTOR SHALL DIRECTIONAL BORE ONE 3-INCH CONDUIT FOR POWER, AND ONE 3-INCH CONDUIT FOR COMMUNICATIONS UNDER MAIN ST.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING	
DESIGN-DETAILED	C. MOMSTERO	B. WALL 11/7/2024
CHECKED-REVIEWED	D. SCHANDEL	M. SUENNEN 11/7/2024
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

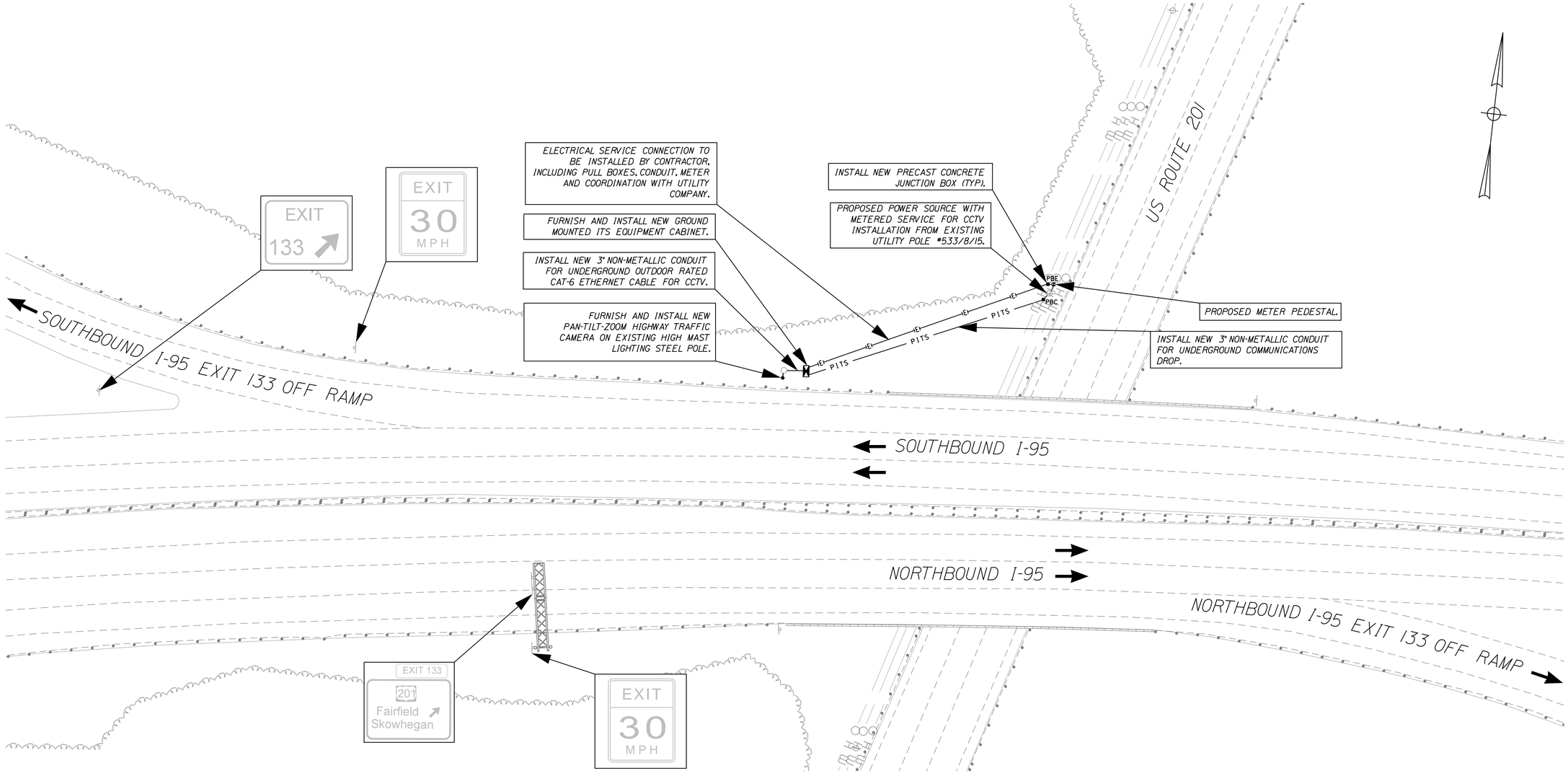
STATEWIDE
CCTV INSTALLATIONS

CCTV 8 - WATERVILLE
SITE PLAN

SHEET NUMBER

23

OF 25



LIST OF MAJOR ITEMS

ITEM NO.	EQUIPMENT AND WORK ITEMS	QUANTITY
626.11	PRECAST CONCRETE JUNCTION BOX	2 EA
626.21	METALLIC CONDUIT (3-INCH)	30 LF
626.22	NON-METALLIC CONDUIT (3-INCH)	270 LF
626.38	GROUND MOUNTED CABINET FOUNDATION	1 EA
654.10	HIGHWAY TRAFFIC CAMERA	1 EA
654.102	CAMERA CONNECTION - HIGH MAST LIGHT	1 EA
654.31	ITS EQUIPMENT CABINET	1 EA
654.313	POE ETHERNET SWITCH	1 EA
654.332	COMMUNICATIONS SERVICE CONNECTION: FAIRFIELD	1 LS
654.51	ELECTRICAL SERVICE CONNECTION: FAIRFIELD	1 LS

NOTES

1. INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UTILITY POLICY 2016-2, PROTECTION OF MAINEDOT OWNED UNDERGROUND ELECTRICAL SERVICE CONNECTIONS AND THE CURRENT VERSION OF THE MAINEDOT UTILITY ACCOMODATION RULES.
2. SEE ITS DETAILS (5 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE ITS CABINET.
3. SEE ITS DETAILS (2 OF 5) FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED CCTV MOUNTING DETAILS.
4. SEE COMMUNICATION DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING INTERNAL ITS CABINET EQUIPMENT CONNECTIONS.

PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING		
DESIGN-DETAILED	C. MONASTERO	BY	DATE
CHECKED-REVIEWED	D. SCHANDEL	B. WALL	11/7/2024
DESIGN2-DETAILED2		M. SUENNEN	11/7/2024
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

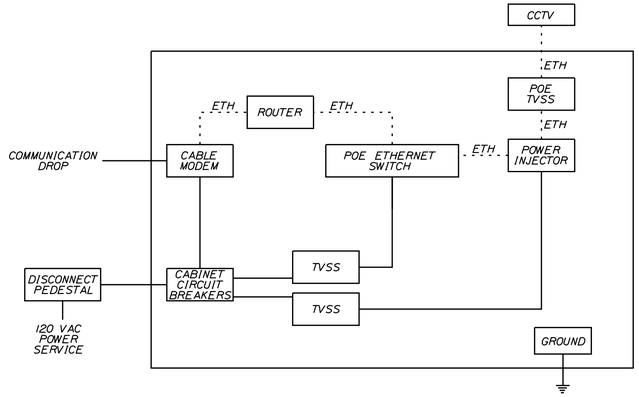
STATEWIDE
CCTV INSTALLATIONS

CCTV 9 - FAIRFIELD
SITE PLAN

SHEET NUMBER

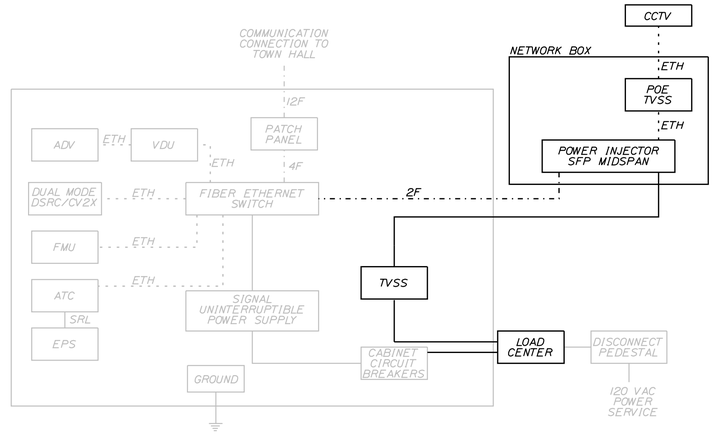
24

OF 25



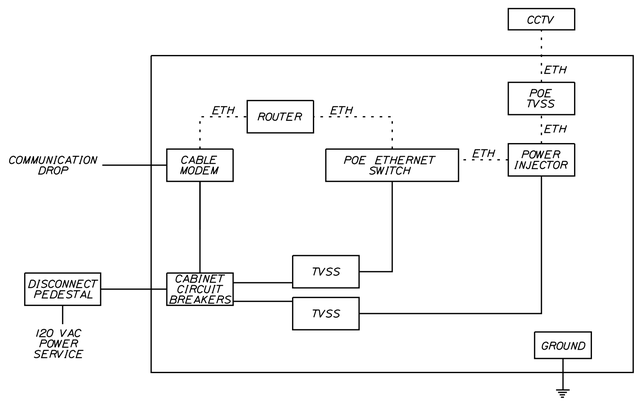
GROUND MOUNTED CABINET FOR TRAFFIC CAMERA ON OVERHEAD SIGN STRUCTURE

NOT TO SCALE



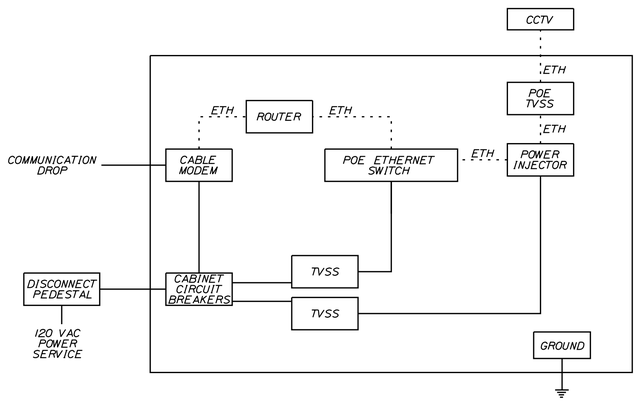
GROUND MOUNTED SIGNAL CABINET @ EXIT 127 IN WATERVILLE

NOT TO SCALE



GROUND MOUNTED CABINET FOR NEW TRAFFIC CAMERA POLE (TYPICAL)

NOT TO SCALE



GROUND MOUNTED CABINET FOR TRAFFIC CAMERA ON HIGH MAST LIGHT (TYPICAL)

NOT TO SCALE

LEGEND

———	POWER
- - - -	ETHERNET CABLE
–·–·–	FIBER OPTIC CABLE
CCTV -	TRAFFIC CAMERA
ETH -	ETHERNET CABLE
TVSS -	TRANSIENT VOLTAGE AND SURGE SUPPRESSOR
ADV -	ADVANCED VEHICLE DETECTION
ATC -	ADVANCED TRANSPORTATION CONTROLLER
DSRC -	DEDICATED SHORT RANGE COMMUNICATIONS
SRL -	SERIAL TWISTED PAIR CONNECTION
EPS -	EMERGENCY PREEMPTION SYSTEM
FMU -	FIELD MONITORING UNIT
VDU -	NON-INVASIVE VIDEO DETECTION UNIT
	EXISTING EQUIPMENT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 2613000

WIN 026130.00

TRAFFIC PLANS

vhb

PROJ. MANAGER	D. LORING
DESIGN-DETAILED	C. MONASTERO
CHECKED-REVIEWED	D. SCHANDEL
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	BY	DATE
REVISIONS 1	B. WALL	11/7/2024
REVISIONS 2	M. SUENNEN	11/7/2024
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

STATEWIDE
CCTV INSTALLATIONS

COMMUNICATION DIAGRAMS

SHEET NUMBER

25

OF 25

Filename: ...\cad\ts\planset\025_Comm_01.dgn Division: HIGHWAY Username: dschandel Date:11/7/2024