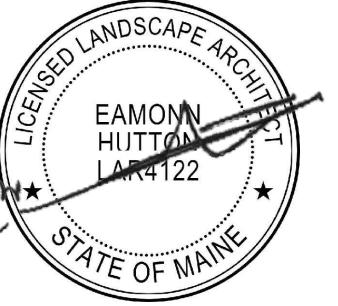


Stamp

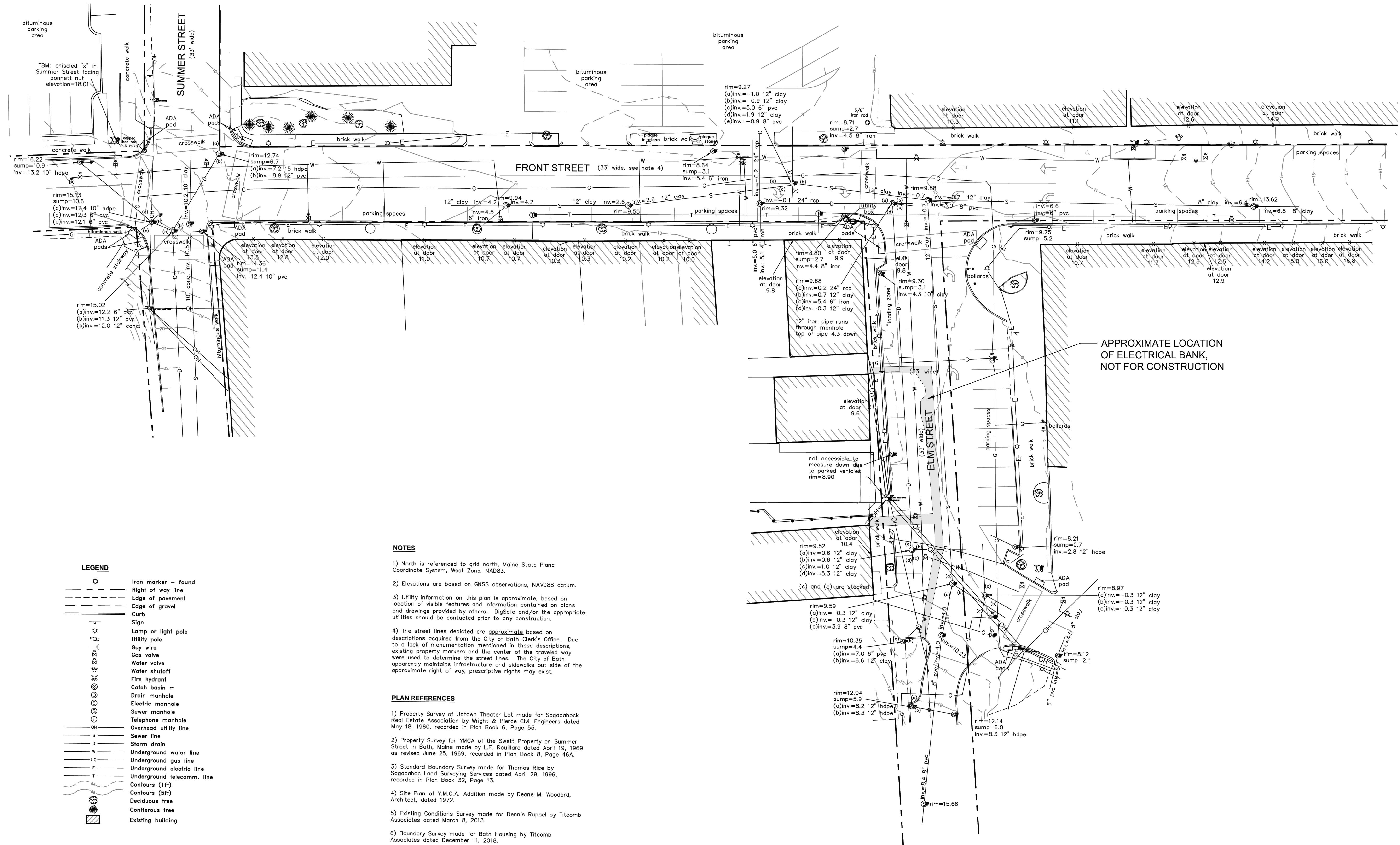


Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

SURVEY NOTES:

1. Survey file produced by Titcomb Associates, dated 22 SEPT 2020. File received: 9 NOV 2020.
2. Location of electrical bank on Elm Street is approximate, measured by VIEWSHED staff on 20 SEPT 2023. Contractor responsible for verification of exact location prior to excavation.



APPROXIMATE LOCATION OF ELECTRICAL BANK, NOT FOR CONSTRUCTION

LEGEND

- Iron marker - found
- Right of way line
- Edge of pavement
- Edge of gravel
- Curb
- Sign
- Lamp or light pole
- Utility pole
- Guy wire
- Gas valve
- Water valve
- Water shutoff
- Fire hydrant
- Catch basin m
- Drain manhole
- Electric manhole
- Sewer manhole
- Telephone manhole
- Overhead utility line
- Sewer line
- Storm drain
- Underground water line
- Underground gas line
- Underground electric line
- Underground telecomm. line
- Contours (1ft)
- Contours (5ft)
- Deciduous tree
- Coniferous tree
- Existing building

NOTES

- 1) North is referenced to grid north, Maine State Plane Coordinate System, West Zone, NAD83.
- 2) Elevations are based on GNSS observations, NAVD83 datum.
- 3) Utility information on this plan is approximate, based on location of visible features and information contained on plans and drawings provided by others. DigSafe and/or the appropriate utilities should be contacted prior to any construction.
- 4) The street lines depicted are approximate based on descriptions acquired from the City of Bath Clerk's Office. Due to a lack of monumentation mentioned in these descriptions, existing property markers and the center of the traveled way were used to determine the street lines. The City of Bath apparently maintains infrastructure and sidewalks outside of the approximate right of way, prescriptive rights may exist.

PLAN REFERENCES

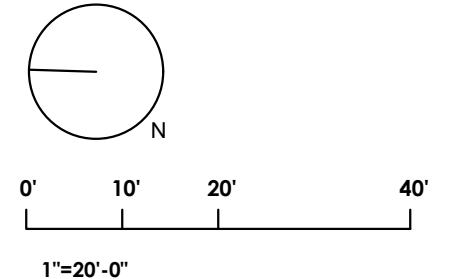
- 1) Property Survey of Uptown Theater Lot made for Sagadahoc Real Estate Association by Wight & Pierce Civil Engineers dated May 18, 1960, recorded in Plan Book 6, Page 55.
- 2) Property Survey for YMCA of the Swett Property on Summer Street in Bath, Maine made by L.F. Rouillard dated April 19, 1969 as revised June 25, 1969, recorded in Plan Book 8, Page 46A.
- 3) Standard Boundary Survey made for Thomas Rice by Sagadahoc Land Surveying Services dated April 29, 1996, recorded in Plan Book 32, Page 13.
- 4) Site Plan of Y.M.C.A. Addition made by Deane M. Woodard, Architect, dated 1972.
- 5) Existing Conditions Survey made for Dennis Ruppel by Titcomb Associates dated March 8, 2013.
- 6) Boundary Survey made for Bath Housing by Titcomb Associates dated December 11, 2018.

Revisions		
1	100% DD	2023.10.06
2	75% C.D.	2024.01.05
3	100% C.D.	2024.03.15

EXISTING CONDITIONS

DRAWN JFH
CHECKED ESH
DATE 2024.03.15
SHEET

X100



Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions

DEMOLITION PLAN



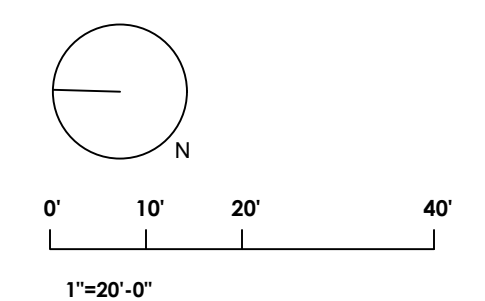
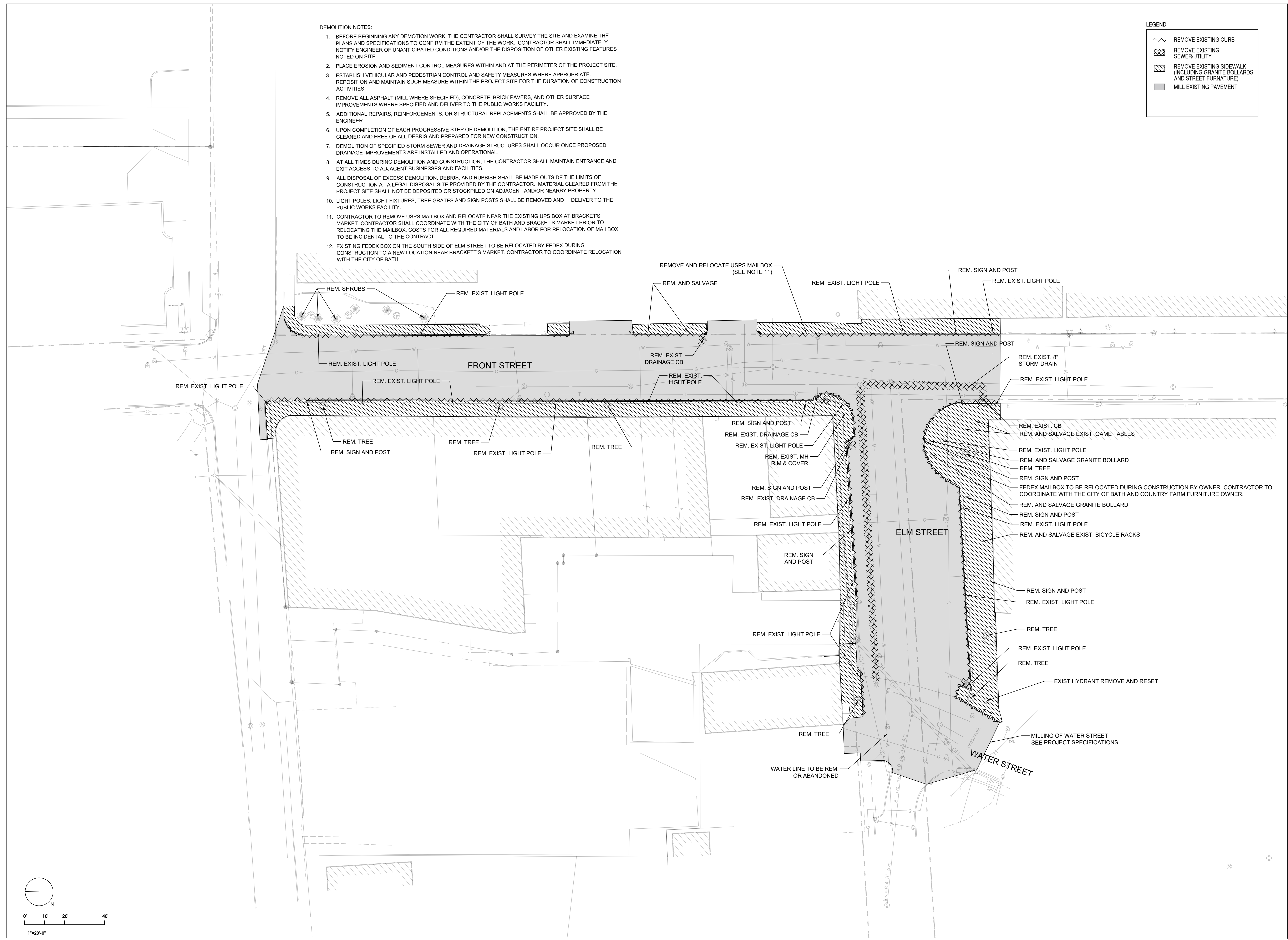
DRAWN PEM
CHECKED DWB
DATE 6/17/2024
SHEET

D100

LEGEND

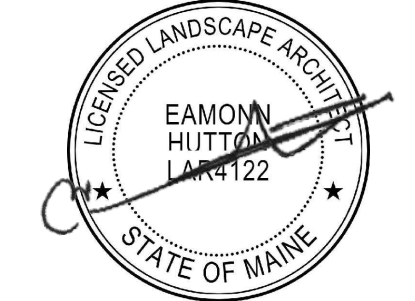
- REMOVE EXISTING CURB
- REMOVE EXISTING SEWER/UTILITY
- REMOVE EXISTING SIDEWALK (INCLUDING GRANITE BOLLARDS AND STREET FURNITURE)
- MILL EXISTING PAVEMENT

- DEMOLITION NOTES:
- BEFORE BEGINNING ANY DEMOTION WORK, THE CONTRACTOR SHALL SURVEY THE SITE AND EXAMINE THE PLANS AND SPECIFICATIONS TO CONFIRM THE EXTENT OF THE WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF UNANTICIPATED CONDITIONS AND/OR THE DISPOSITION OF OTHER EXISTING FEATURES NOTED ON SITE.
 - PLACE EROSION AND SEDIMENT CONTROL MEASURES WITHIN AND AT THE PERIMETER OF THE PROJECT SITE.
 - ESTABLISH VEHICULAR AND PEDESTRIAN CONTROL AND SAFETY MEASURES WHERE APPROPRIATE. REPOSITION AND MAINTAIN SUCH MEASURE WITHIN THE PROJECT SITE FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
 - REMOVE ALL ASPHALT (MILL WHERE SPECIFIED), CONCRETE, BRICK PAVERS, AND OTHER SURFACE IMPROVEMENTS WHERE SPECIFIED AND DELIVER TO THE PUBLIC WORKS FACILITY.
 - ADDITIONAL REPAIRS, REINFORCEMENTS, OR STRUCTURAL REPLACEMENTS SHALL BE APPROVED BY THE ENGINEER.
 - UPON COMPLETION OF EACH PROGRESSIVE STEP OF DEMOLITION, THE ENTIRE PROJECT SITE SHALL BE CLEANED AND FREE OF ALL DEBRIS AND PREPARED FOR NEW CONSTRUCTION.
 - DEMOLITION OF SPECIFIED STORM SEWER AND DRAINAGE STRUCTURES SHALL OCCUR ONCE PROPOSED DRAINAGE IMPROVEMENTS ARE INSTALLED AND OPERATIONAL.
 - AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ENTRANCE AND EXIT ACCESS TO ADJACENT BUSINESSES AND FACILITIES.
 - ALL DISPOSAL OF EXCESS DEMOLITION, DEBRIS, AND RUBBISH SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR. MATERIAL CLEARED FROM THE PROJECT SITE SHALL NOT BE DEPOSITED OR STOCKPILED ON ADJACENT AND/OR NEARBY PROPERTY.
 - LIGHT POLES, LIGHT FIXTURES, TREE GRATES AND SIGN POSTS SHALL BE REMOVED AND DELIVER TO THE PUBLIC WORKS FACILITY.
 - CONTRACTOR TO REMOVE USPS MAILBOX AND RELOCATE NEAR THE EXISTING UPS BOX AT BRACKET'S MARKET. CONTRACTOR SHALL COORDINATE WITH THE CITY OF BATH AND BRACKET'S MARKET PRIOR TO RELOCATING THE MAILBOX. COSTS FOR ALL REQUIRED MATERIALS AND LABOR FOR RELOCATION OF MAILBOX TO BE INCIDENTAL TO THE CONTRACT.
 - EXISTING FEDEX BOX ON THE SOUTH SIDE OF ELM STREET TO BE RELOCATED BY FEDEX DURING CONSTRUCTION TO A NEW LOCATION NEAR BRACKET'S MARKET. CONTRACTOR TO COORDINATE RELOCATION WITH THE CITY OF BATH.





Stamp



Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

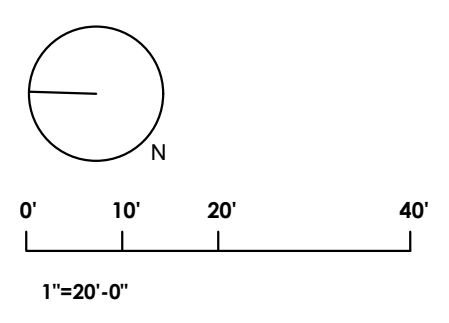
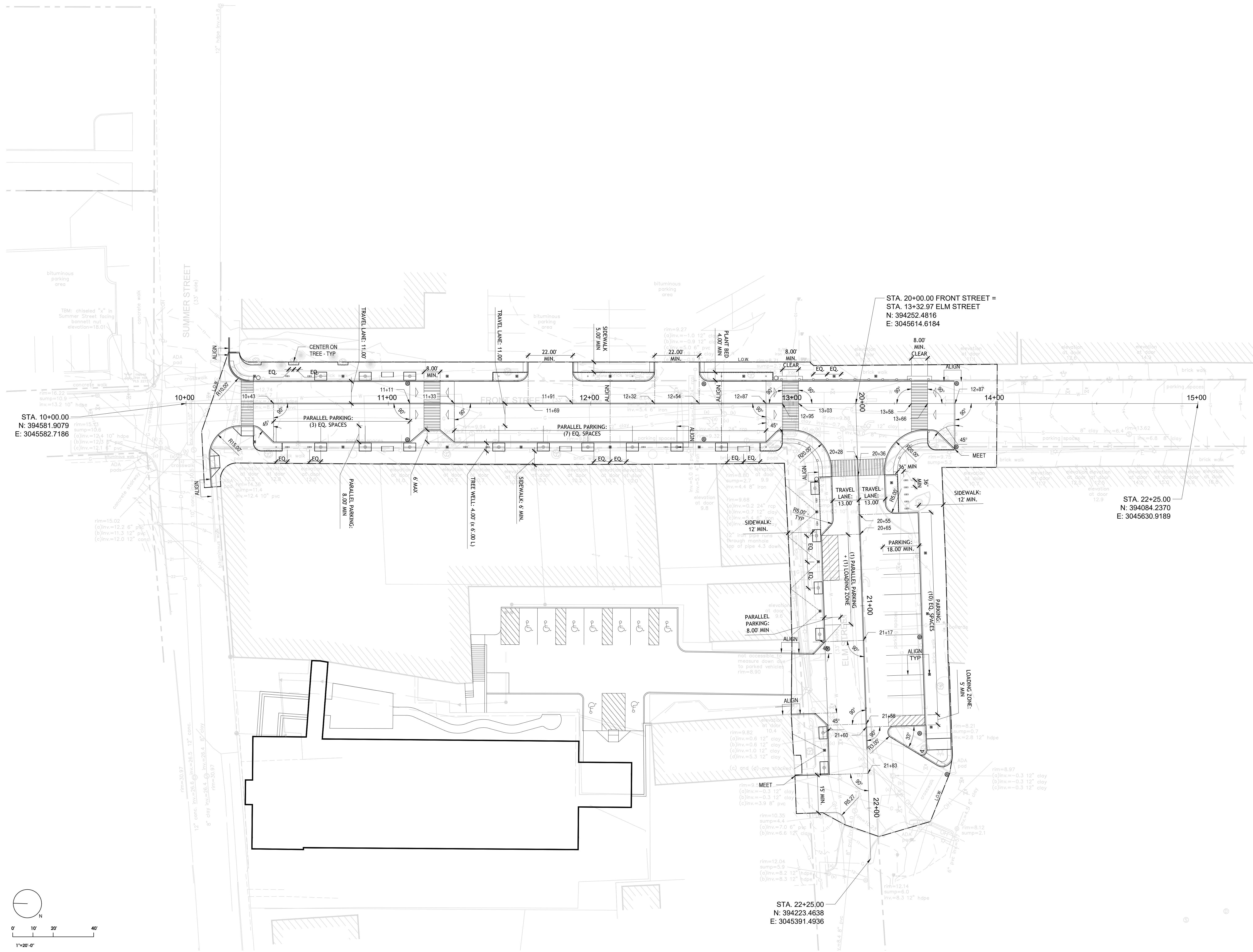
Revisions

1	JVH	100% D.D.	2023.10.06
2	JVH	75% C.D.	2024.01.05
3	JFH	100% C.D.	2024.03.15

LAYOUT PLAN

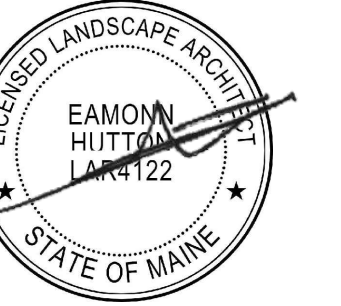
DRAWN: JH, SP
 CHECKED: ESH
 DATE: 2024.03.15
 SHEET:

L100





Stamp



Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions			
1	JVH	100% DD	2023.10.06
2	JVH	75% C.D.	2024.01.05
3	JFH	100% C.D.	2024.03.15
4	JFH	Bid Set	2024.06.04

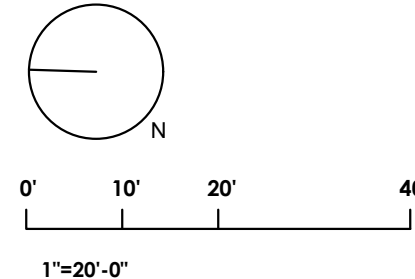
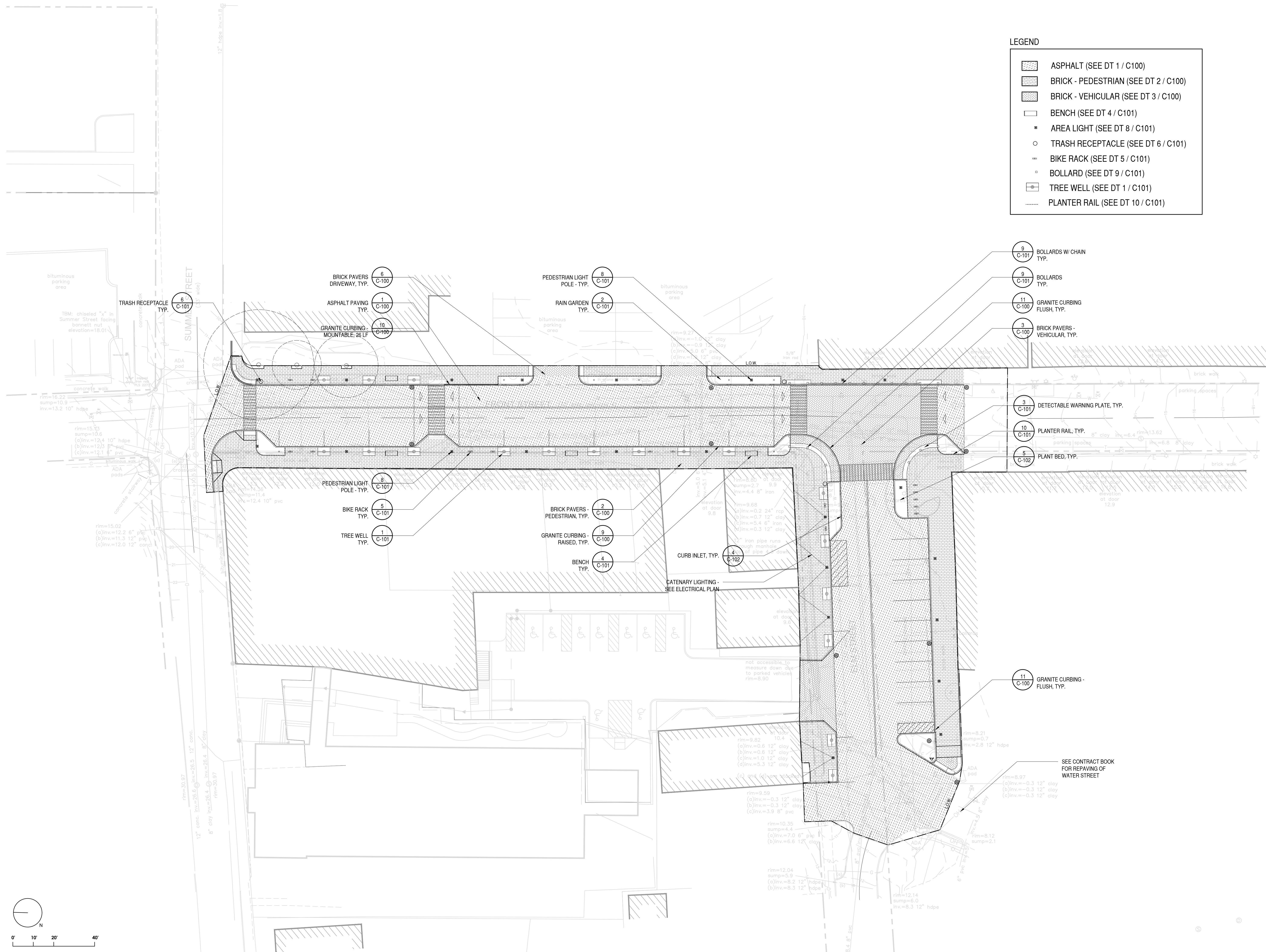
MATERIALS PLAN

DRAWN SLP / JVH
 CHECKED ESH
 DATE 2024.03.15
 SHEET

M100

LEGEND

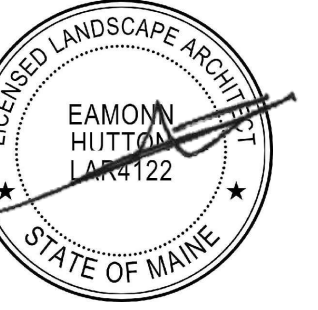
- ASPHALT (SEE DT 1 / C100)
- BRICK - PEDESTRIAN (SEE DT 2 / C100)
- BRICK - VEHICULAR (SEE DT 3 / C100)
- BENCH (SEE DT 4 / C101)
- AREA LIGHT (SEE DT 8 / C101)
- TRASH RECEPTACLE (SEE DT 6 / C101)
- BIKE RACK (SEE DT 5 / C101)
- BOLLARD (SEE DT 9 / C101)
- TREE WELL (SEE DT 1 / C101)
- PLANTER RAIL (SEE DT 10 / C101)



SEE CONTRACT BOOK FOR REPAVING OF WATER STREET



Stamp



Project

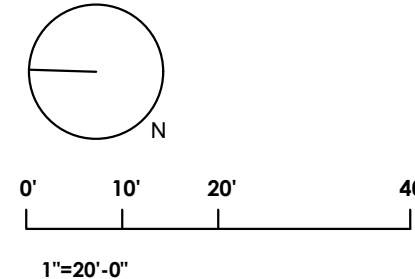
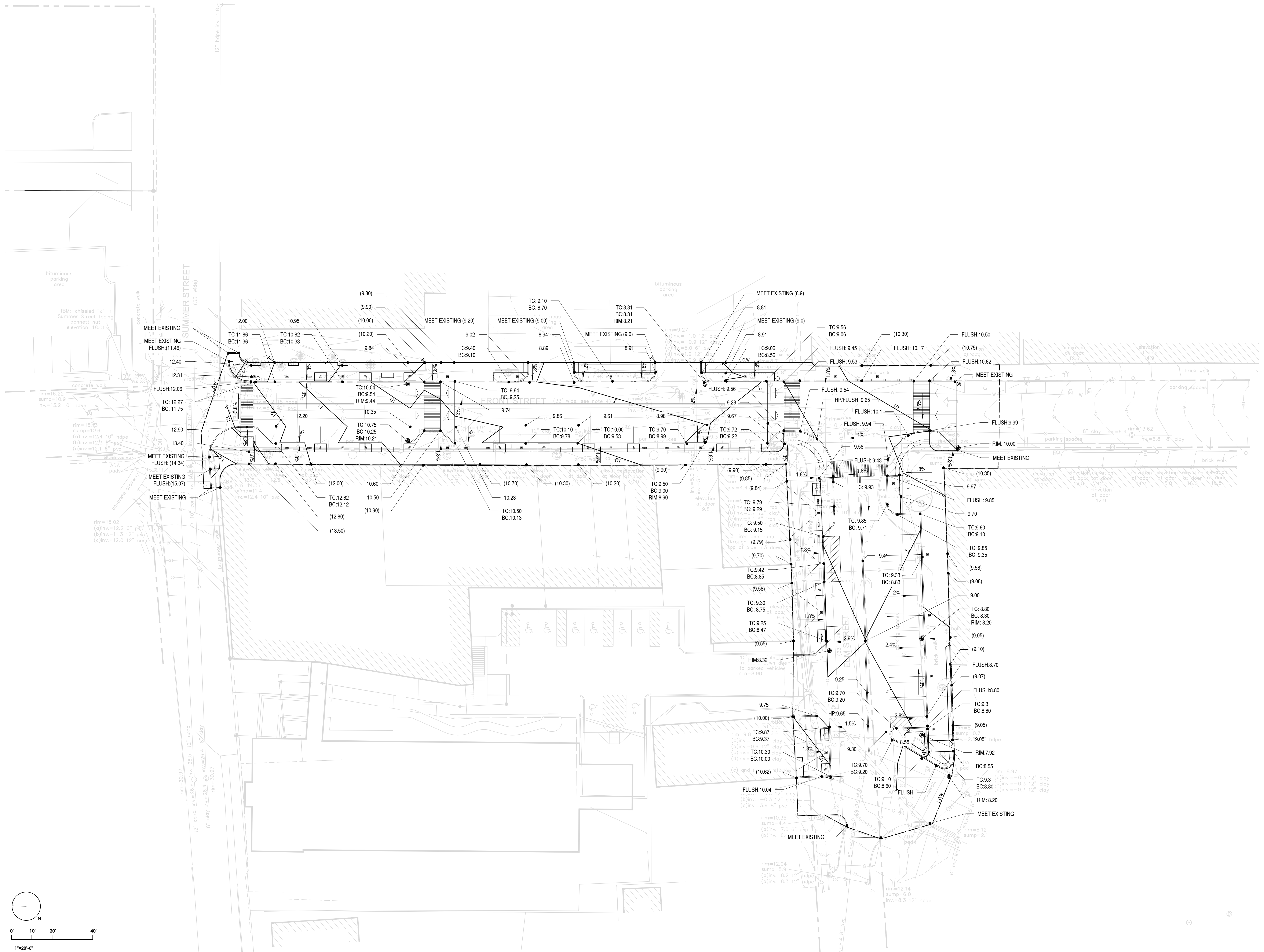
ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions		
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2	JVH 75% C.D.	2024.01.05
3	JFH 100% C.D.	2024.03.15
4	JFH Bid Set	2024.06.04

GRADING PLAN

DRAWN JFH
 CHECKED ESH
 DATE 2024.03.15
 SHEET

G100



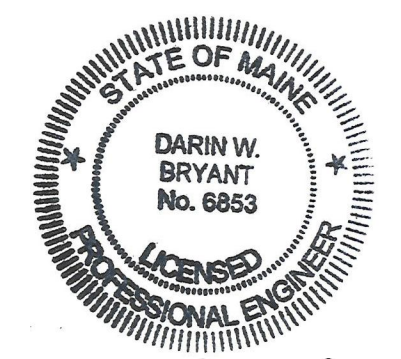


Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions
1 REVISED (REVISION) 2023.12.15
DRAINAGE LAYOUT

DRAINAGE PLAN



DRAWN PEM
CHECKED DWB
DATE 6/17/2024 24
SHEET

G101

DRAINAGE NOTES:

- ALL PROPOSED DRAINAGE STRUCTURES SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE CURRENT MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS.
- ALL PROPOSED DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE (H.D.P.E.) AND SHALL BE CORRUGATED SMOOTH BORE, OR APPROVED EQUAL, AND CONFORM WITH ASTM M294. PIPE SHALL HAVE BUILT-IN BELL JOINT WITH RUBBER GASKET CONFORMING WITH ASTM F477.
- CONNECTIONS OF PROPOSED STORM PIPE TO EXISTING STRUCTURES SHALL BE SEALED WITH CONCRETE COLLARS (4000 PSI CONCRETE). COST OF MATERIALS AND LABOR FOR SUCH CONNECTIONS SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
- CONTRACTOR SHALL UNCOVER ALL EXISTING LATERAL CONNECTIONS FROM ADJACENT BUILDING TO THE EXISTING STORM SYSTEMS AND SHALL RECONNECT OR REPLACE THEM IN KIND TO THE CLOSEST PROPOSED STORM SEWER. APPROXIMATE LOCATIONS OF SPECIFIC OBSERVED DRAINAGE LATERALS OF TO EXISTING STORM PIPE ARE INDICATED. EXISTING LATERALS ABANDONED AND CAPPED AT THE EXISTING STORM SEWER SHALL NOT BE RECONNECTED TO THE PROPOSED STORM SEWER. COST OF MATERIALS AND LABOR FOR SUCH CONNECTIONS SHALL BE INCIDENTAL TO THE COST OF THE PIPE. THE CONTRACTOR SHALL BE PROVIDED WITH AVAILABLE INSPECTION VIDEOS FOR INFORMATION PURPOSES ONLY.
- THE CONTRACTOR SHALL CLEAN AND DESILT ALL DRAINAGE SYSTEM PIPE AND STRUCTURES WITHIN THE PROJECT LIMITS BEFORE DRAINAGE SYSTEM IMPROVEMENTS WILL BE ACCEPTED BY THE CITY. COST OF EQUIPMENT AND LABOR FOR SUCH SYSTEM CLEANING SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
- THE CONTRACTOR SHALL OBTAIN A COMPLETE POST-CONSTRUCTION VIDEO INSPECTION OF THE STORM SYSTEM PIPES WITHIN THE PROJECT LIMITS AND PROVIDE SUCH INSPECTION VIDEOS AND WRITTEN SUMMARY REPORT TO THE CITY.
- SEE SHEET D100 FOR REMOVAL OF EXISTING DRAINAGE STRUCTURES AND OTHER ITEMS.
- CONTRACTOR SHALL INVESTIGATE BY TEST PIT OR OTHER MEANS THE EXISTING SUBSURFACE CONDITIONS WITH RESPECT TO THE PROPOSED DRAINAGE STRUCTURES SD-9, PROPOSED STORM SEWER, AND EXISTING COMMUNICATIONS DUCT BANK TO CONFIRM CONSTRUCTABILITY PRIOR TO SUBMITTING SD-9 SHOP DRAWING.

- SD-1 CATCH BASIN
STA. 21+85.14, 38.89' LT
TOP EL. 8.2 FT
INV. OUT 3.2 FT (E)
- SD-2 CATCH BASIN
STA. 21+12.88, 27.00 LT
TOP EL. 8.5 FT
INV. EL. 2.8 FT (N)
- SD-3 CATCH BASIN
STA. 21+16.9, 17.2' RT
TOP EL. 8.4 FT
INV. EL. 2.0 FT (S)
INV. EL. 1.8 FT (N)
INV. EL. 5.75 FT (6'E)
- SD-4 MAN HOLE
STA. 21+25.20, 25.80' RT
TOP EL. 9.4 FT
INV. EL. 1.5 FT (S)
INV. EL. 0.5 FT (W)
INV. EL. 0.5 FT (E)

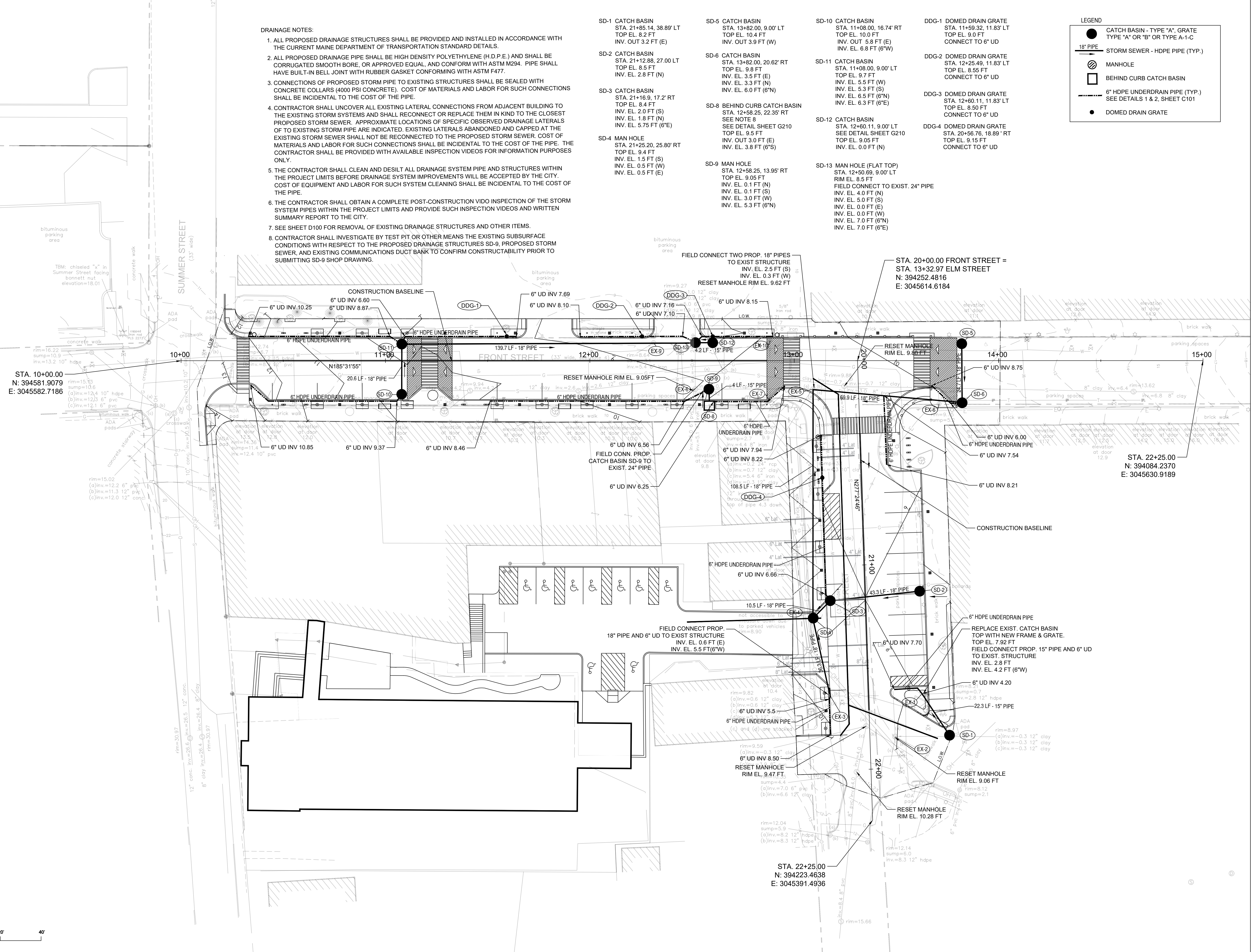
- SD-5 CATCH BASIN
STA. 13+82.00, 9.00' LT
TOP EL. 10.4 FT
INV. OUT 3.9 FT (W)
- SD-6 CATCH BASIN
STA. 13+82.00, 20.62' RT
TOP EL. 9.8 FT
INV. EL. 3.5 FT (E)
INV. EL. 3.3 FT (N)
INV. EL. 6.0 FT (6'N)
- SD-8 BEHIND CURB CATCH BASIN
STA. 12+58.25, 22.35' RT
SEE NOTE 8
SEE DETAIL SHEET G210
TOP EL. 9.5 FT
INV. OUT 3.0 FT (E)
INV. EL. 3.8 FT (6'S)
- SD-9 MAN HOLE
STA. 12+58.25, 13.95' RT
TOP EL. 9.05 FT
INV. EL. 0.1 FT (N)
INV. EL. 0.1 FT (S)
INV. EL. 3.0 FT (W)
INV. EL. 5.3 FT (6'N)

- SD-10 CATCH BASIN
STA. 11+08.00, 16.74' RT
TOP EL. 10.0 FT
INV. OUT 5.8 FT (E)
INV. EL. 6.8 FT (6'W)
- SD-11 CATCH BASIN
STA. 11+08.00, 9.00' LT
TOP EL. 9.7 FT
INV. EL. 5.5 FT (W)
INV. EL. 5.3 FT (S)
INV. EL. 6.5 FT (6'N)
INV. EL. 6.3 FT (6'E)
- SD-12 CATCH BASIN
STA. 12+60.11, 9.00' LT
TOP EL. 9.05 FT
INV. EL. 0.0 FT (N)
- SD-13 MAN HOLE (FLAT TOP)
STA. 12+50.69, 9.00' LT
RIM EL. 8.5 FT
FIELD CONNECT TO EXIST. 24" PIPE
INV. EL. 4.0 FT (N)
INV. EL. 5.0 FT (S)
INV. EL. 0.0 FT (E)
INV. EL. 0.0 FT (W)
INV. EL. 7.0 FT (6'N)
INV. EL. 7.0 FT (6'E)

- DDG-1 DOMED DRAIN GRATE
STA. 11+59.32, 11.83' LT
TOP EL. 9.0 FT
CONNECT TO 6" UD
- DDG-2 DOMED DRAIN GRATE
STA. 12+25.49, 11.83' LT
TOP EL. 8.55 FT
CONNECT TO 6" UD
- DDG-3 DOMED DRAIN GRATE
STA. 12+60.11, 11.83' LT
TOP EL. 8.50 FT
CONNECT TO 6" UD
- DDG-4 DOMED DRAIN GRATE
STA. 20+56.76, 18.89' RT
TOP EL. 9.15 FT
CONNECT TO 6" UD

LEGEND

- CATCH BASIN - TYPE "A", GRATE TYPE "A" OR "B" OR TYPE A-1-C
- 18" PIPE STORM SEWER - HDPE PIPE (TYP.)
- ⊗ MANHOLE
- BEHIND CURB CATCH BASIN
- 6" HDPE UNDERDRAIN PIPE (TYP.) SEE DETAILS 1 & 2, SHEET C101
- DOMED DRAIN GRATE



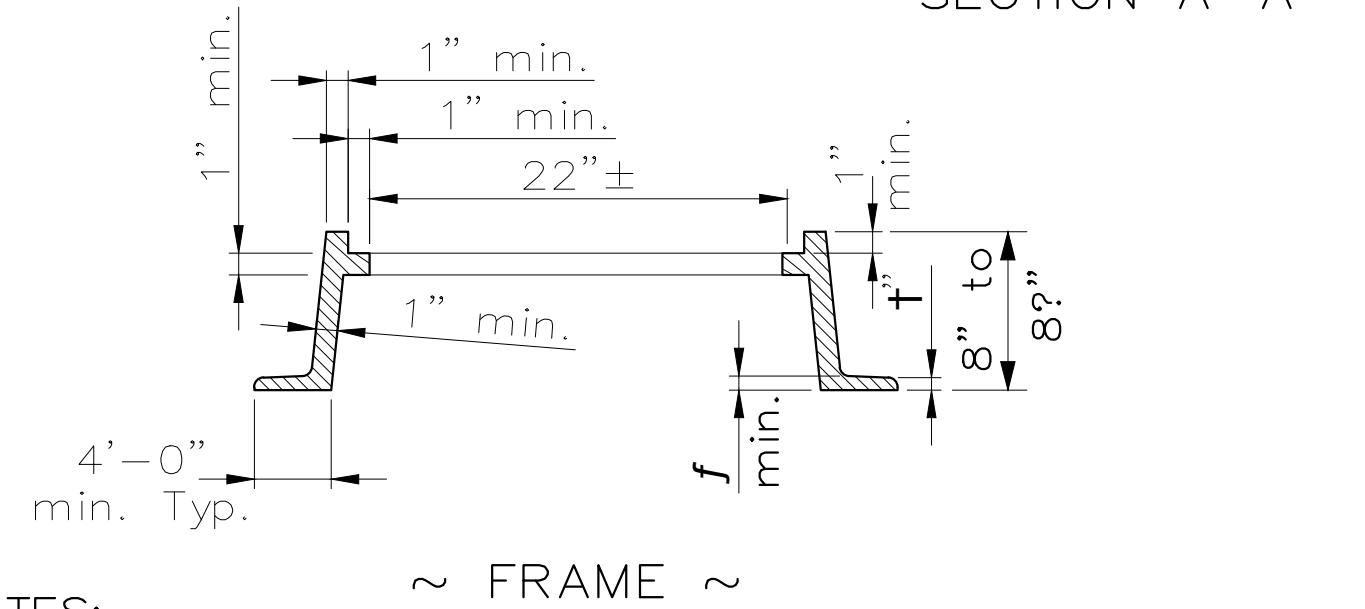
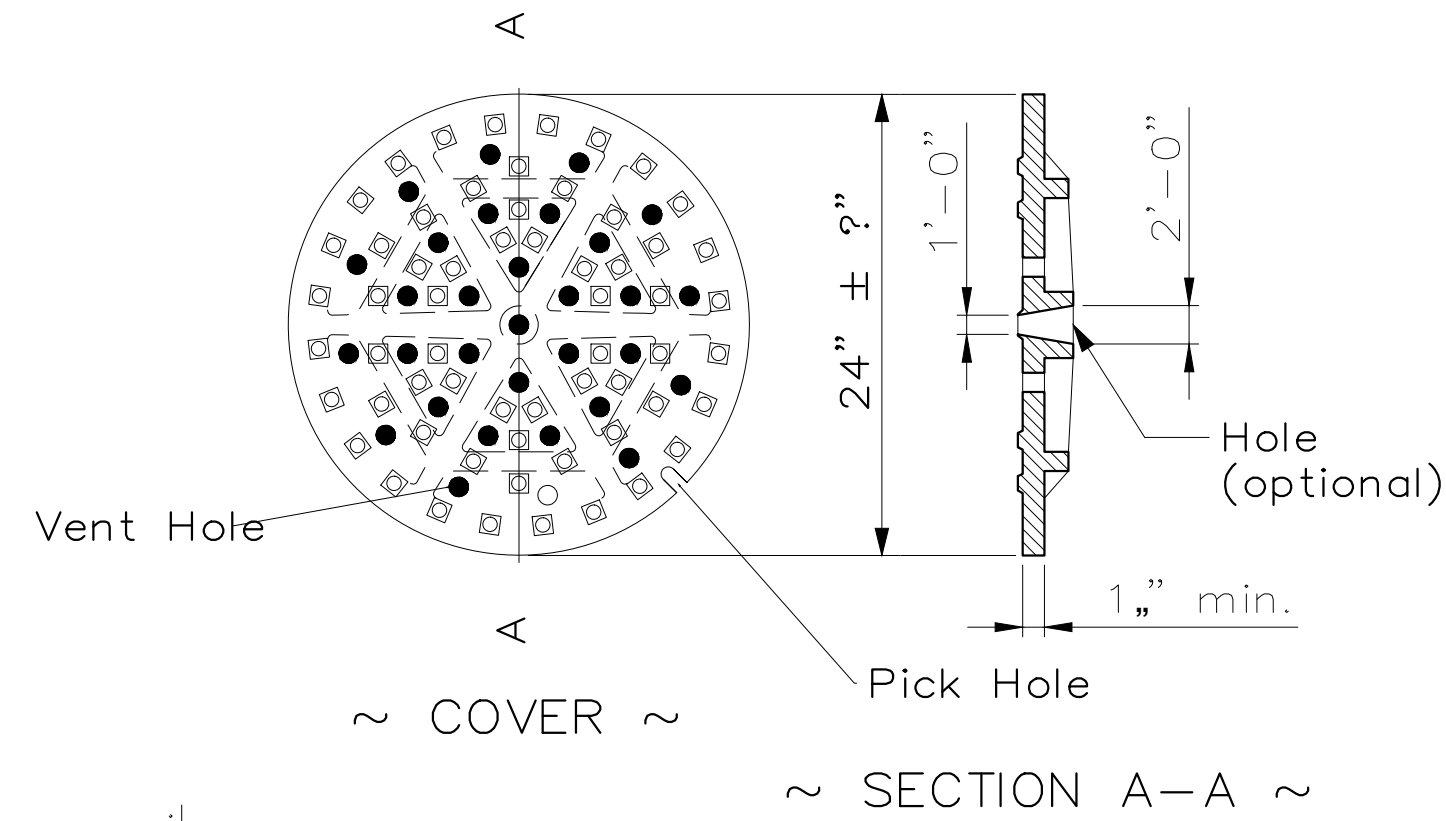
STA. 10+00.00
N: 394581.9079
E: 3045582.7186

STA. 22+25.00
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E: 3045630.9189

STA. 22+25.00
N: 394223.4638
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GENERAL NOTES

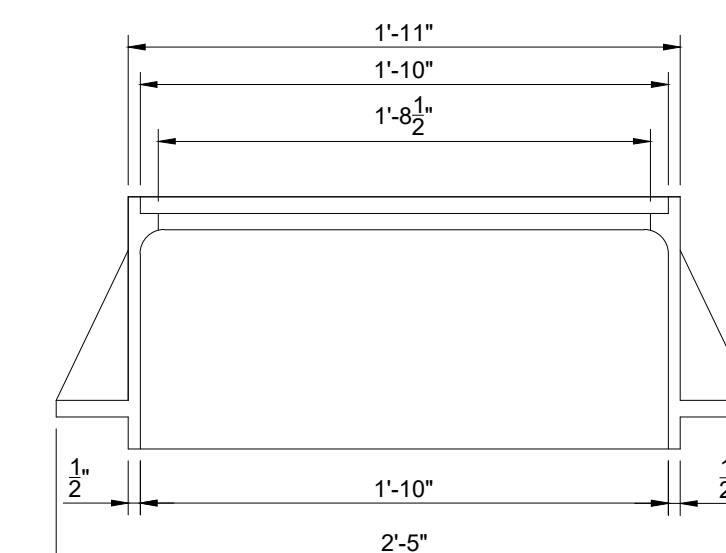
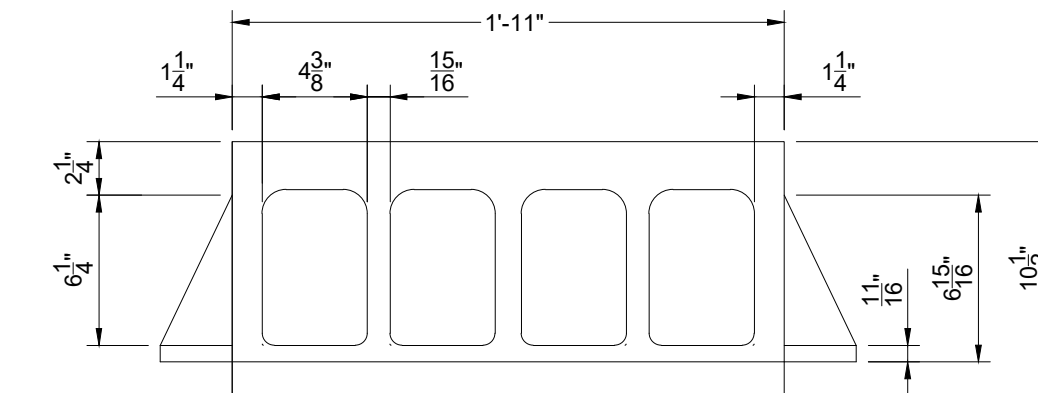
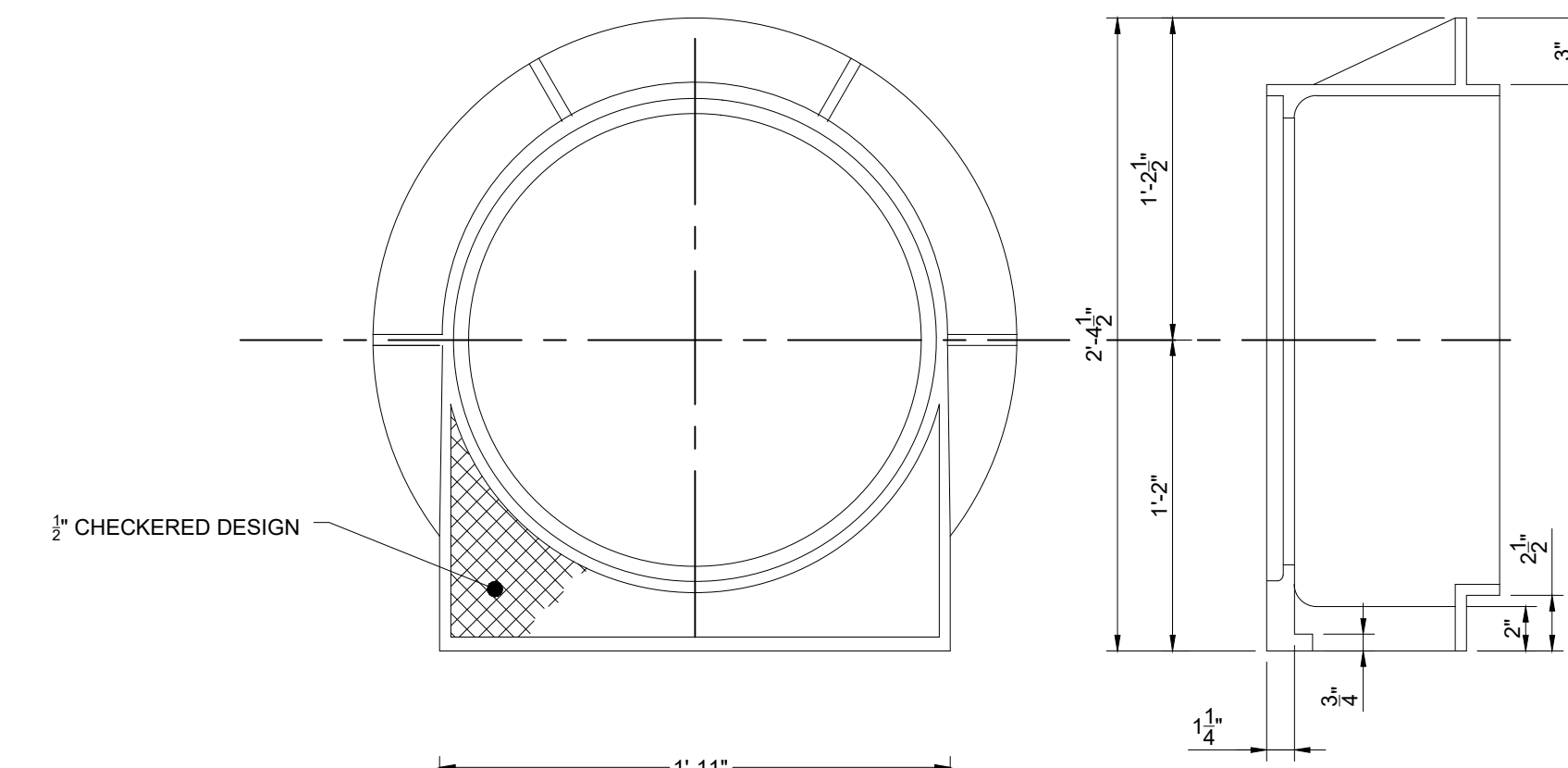
1. CATCH BASINS IN EXCESS OF 8' IN DEPTH SHALL, IF DIRECTED, BE PROVIDED WITH STEPS SIMILAR TO THOSE DETAILED FOR MANHOLES.
2. DRAIN HOLES IN PRECAST SUMPS SHALL BE NOT OVER 3" IN DIAMETER AND SHALL BE PLUGGED WITH MORTAR WHEN CONSTRUCTED.
3. ALL PRECAST SECTIONS OF LESS THAN 8" WALL THICKNESS SHALL HAVE TONGUE AND GROOVE JOINTS.
4. CONE AND RING SECTIONS SHALL HAVE A WALL THICKNESS OF 4" MINIMUM TO 8" MAXIMUM.
5. MINIMUM WALL THICKNESS AT THE SUMP SHALL BE 4" AS SPECIFIED IN AASHTO M199.
6. THE WALL AROUND INLET AND OUTLET PIPES SHALL BE A PRECAST RING WITH AN OPENING 2" LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE.
7. LIFT HOLES OR LIFT HANDLES SHALL BE PROVIDED FOR INSTALLATION OF CATCH BASINS AND MANHOLES.
8. LIFT HOLES SHALL NOT EXCEED 3" IN DIAMETER AND SHALL BE PLUGGED WITH MORTAR WHEN CONSTRUCTED. LIFT HANDLES SHALL NOT EXCEED 3" IN DIAMETER AND SHALL BE CUT OFF AS DIRECTED BY THE RESIDENT ENGINEER PRIOR TO BACK FILLING THE STRUCTURE.



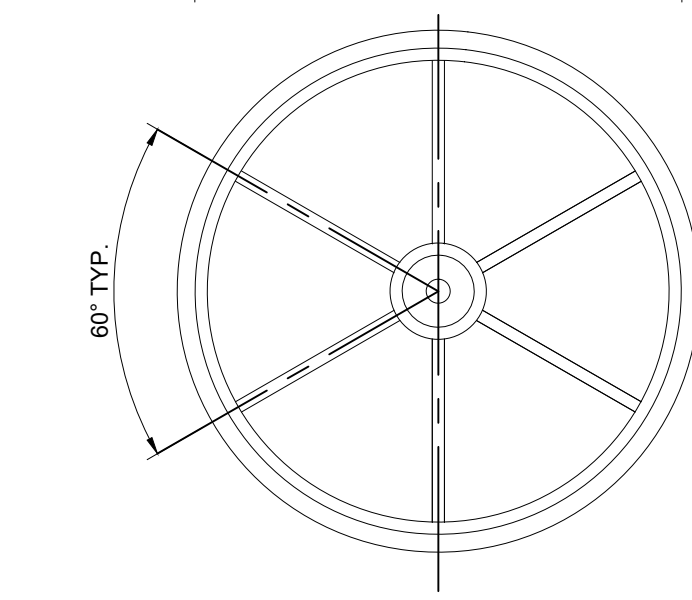
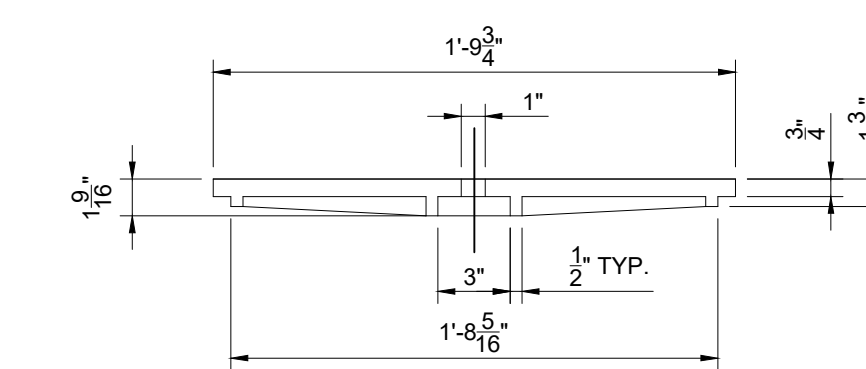
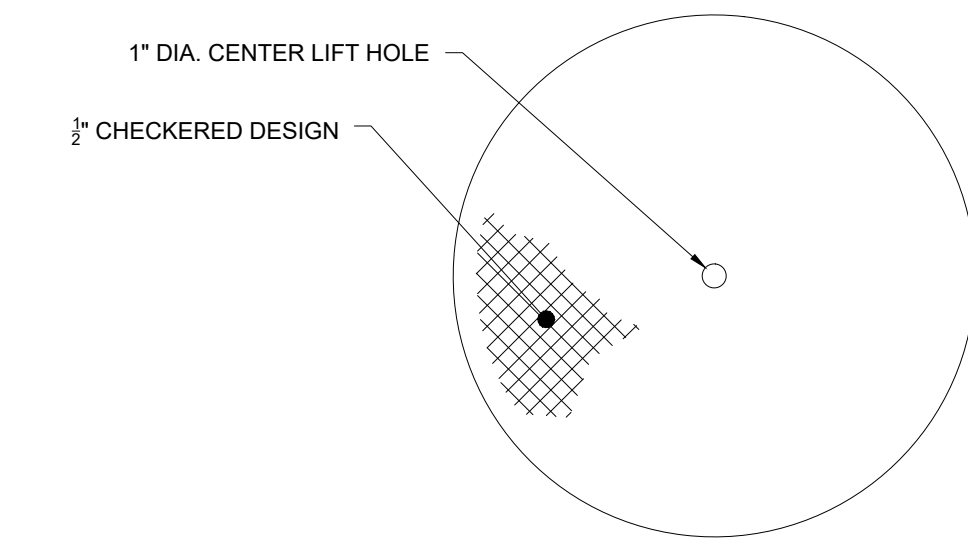
NOTES:

1. Manhole frames and covers are to be machined to a smooth fit and
2. Shall be of gray cast iron or ductile iron conforming to AASHTO M306. Diamond top surface is optional.
3. All manhole covers shall incorporate the word "DRAIN" in cast.

MANHOLE TOP "D"
604(07)

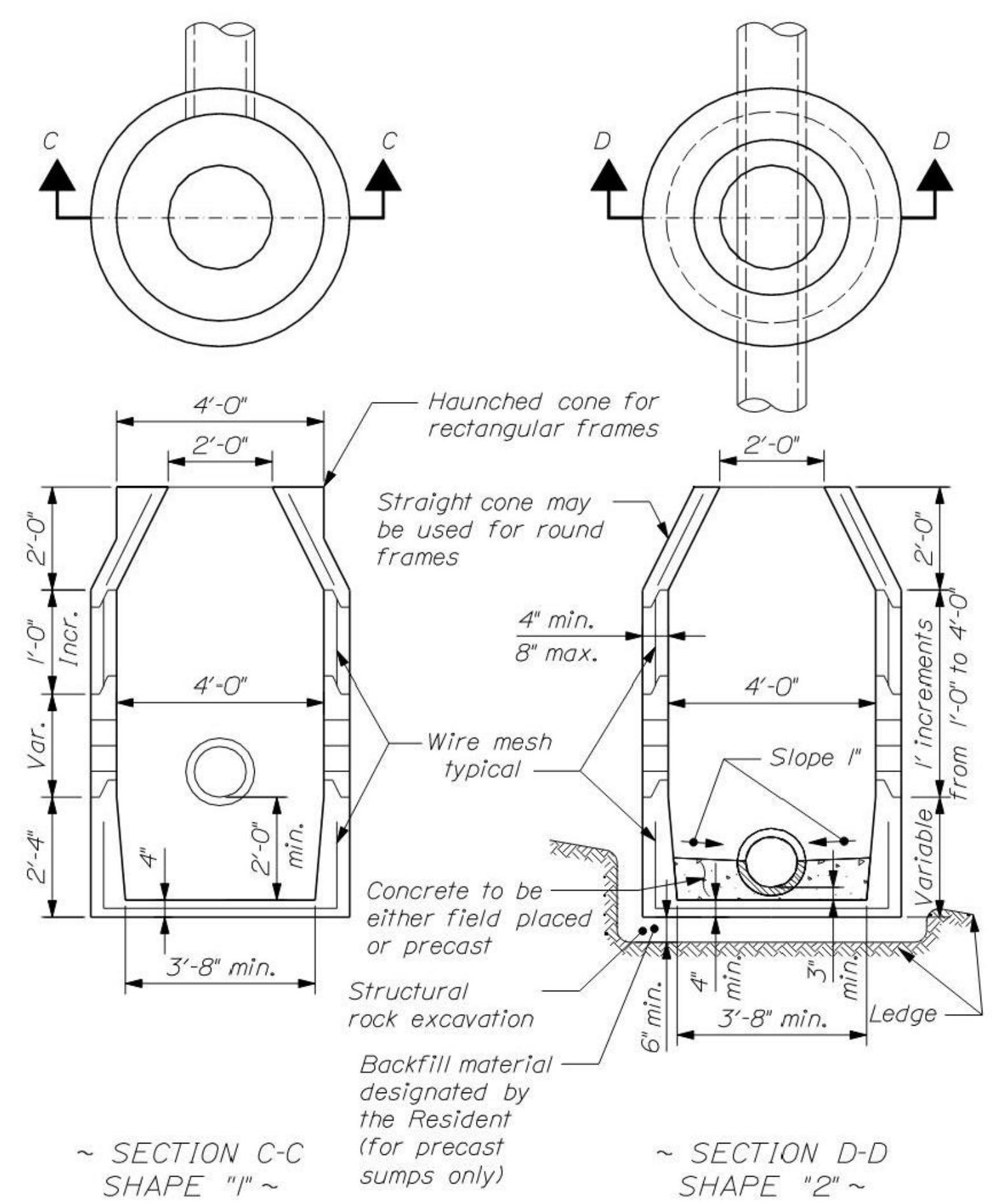


SECTION A-A



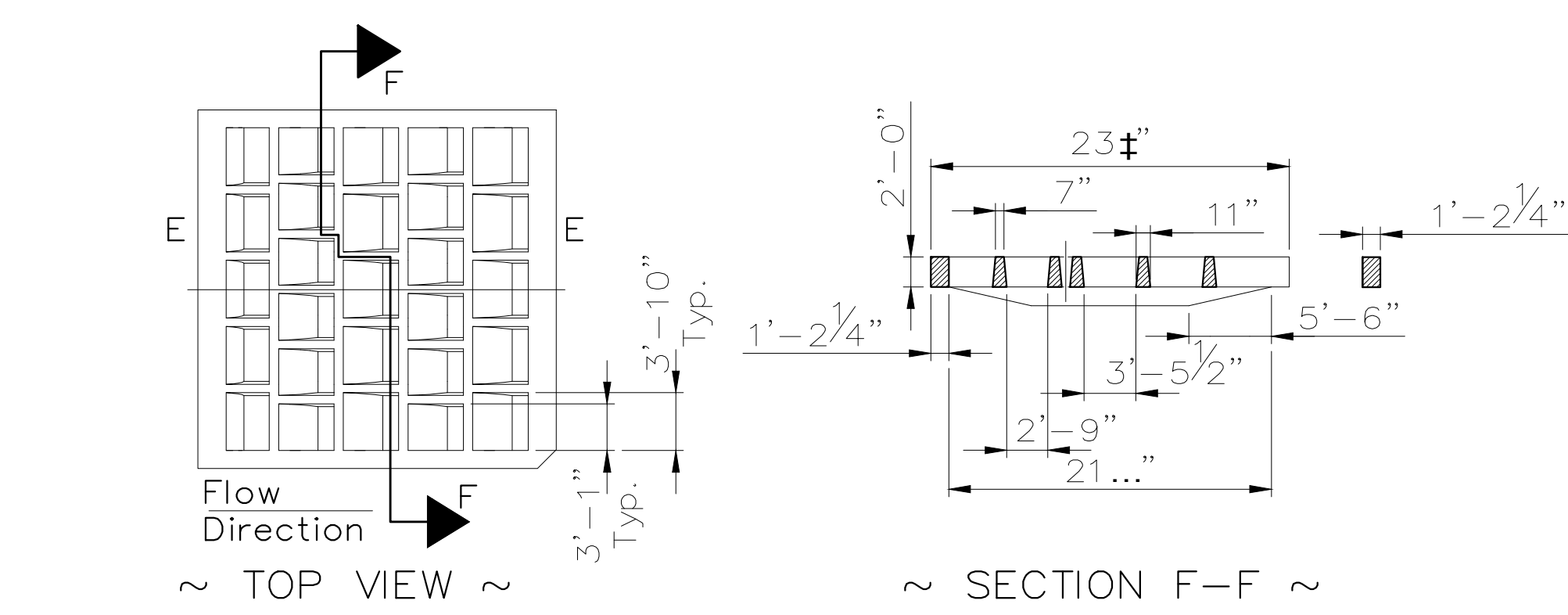
~ PERSPECTIVE VIEW ~

BEHIND CURB CATCH BASIN
(NEENAH FOUNDRY R3303 UNIT)



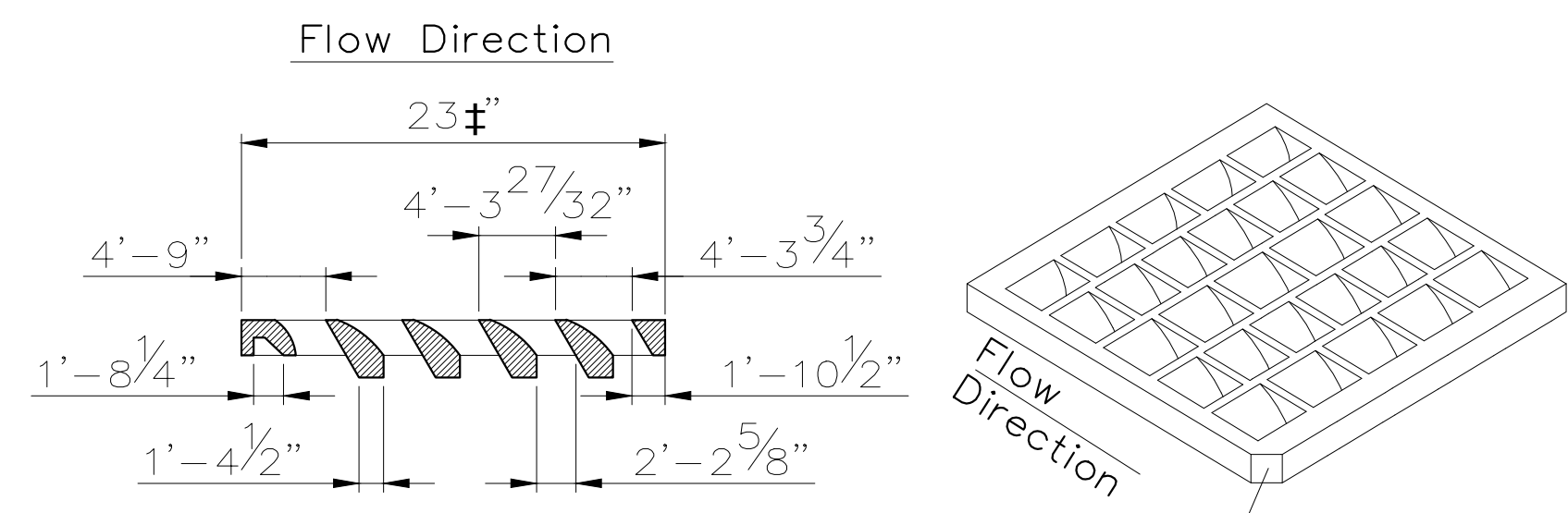
CATCH BASIN OR MANHOLE
604(02)

Dimensions are intended to be nominal

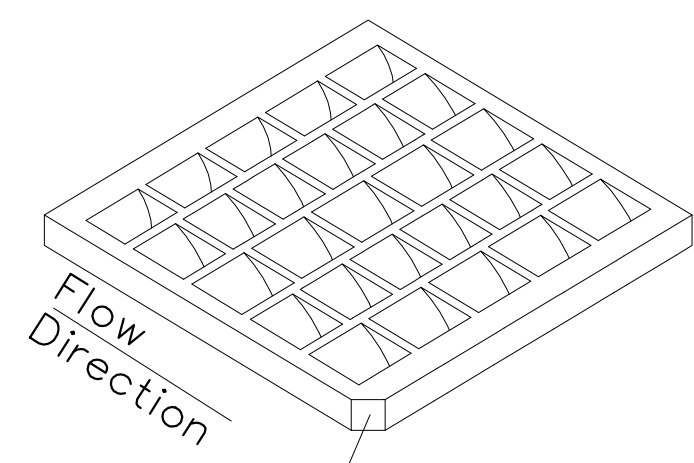


~ TOP VIEW ~

~ SECTION F-F ~



~ SECTION E-E ~



~ PERSPECTIVE VIEW ~

This corner left off for "right" grate. Diagonally opposite corner for "left" grate to fit in keyed frames.

NOTES:

1. To be used in all locations on this project.
2. For use on catch basin types: A1-C, A2-C, A5-C, B1-C, B2-C, B5-C, F3-C, F4-C, F5-C, F6-C.

"CASCADE - TYPE" GRATES
604(04)A

Revisions
ADDED (REVISION) 2023.12.15
DETAILS AND NOTES

DRAINAGE DETAILS



DRAWN PEM
CHECKED DWB
DATE 6/17/2024
SHEET

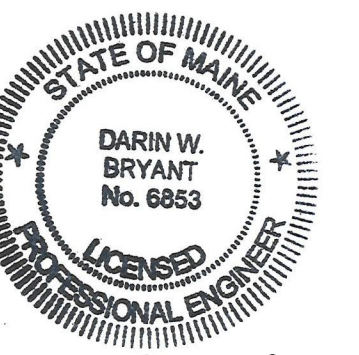


Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions

UTILITY PLAN

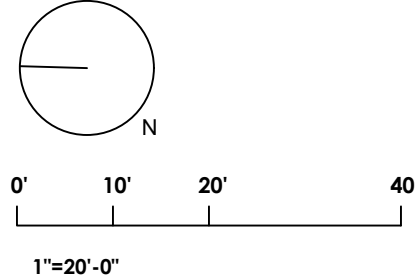
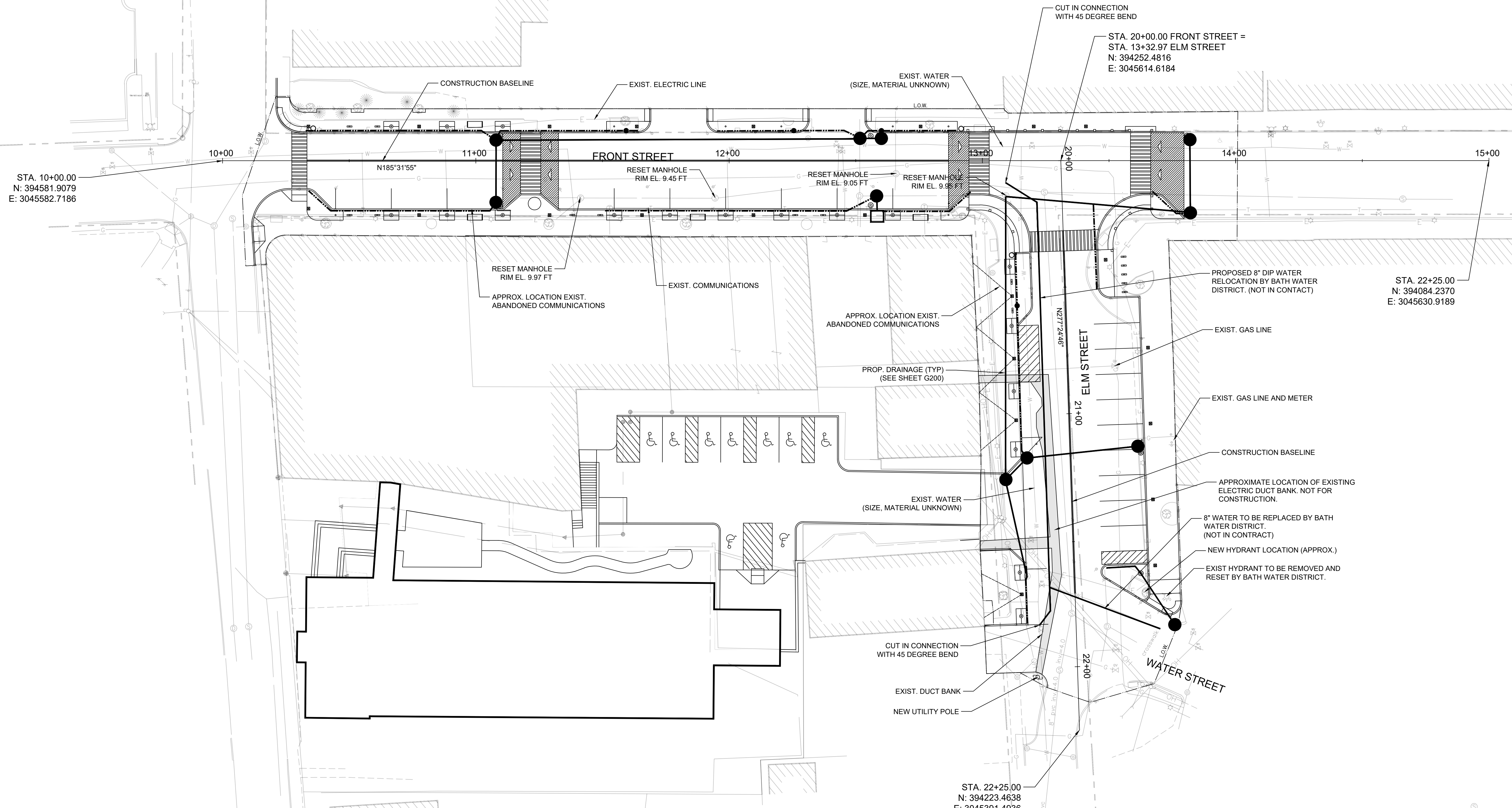


DRAWN PEM
CHECKED DWB
DATE 6/17/2024
SHEET

U100

UTILITY NOTES:

1. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK. IF UTILITIES OTHER THAN THOSE SHOWN HEREON ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE BATH WATER DISTRICT IMMEDIATELY AND TAKE APPROPRIATE MEASURES TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
2. PROPOSED WATER LINE RELOCATION INDICATED HEREON IS NOT IN CONTRACT. THIS RELOCATION WILL BE ACCOMPLISHED BY THE BATH WATER DISTRICT. EXCEPT FOR SPECIFIED MANHOLE TOPS TO BE RESET, THIS UTILITY SHEET AND UTILITY IMPROVEMENTS INDICATED ARE PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY.
3. TWO CROSSINGS OF THE PROPOSED WATER LINE RELOCATION AT THE PROPOSED STORM SYSTEM PIPE WILL HAVE PROFILES WITH VERTICAL BENDS.
4. EXISTING COMMUNICATIONS DUCT BANK IN FRONT STREET SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.



ELECTRICAL SPECIFICATIONS

NOTE: USE THE MOST STRINGENT REQUIREMENTS BETWEEN THE SPECIFICATIONS ON DRAWING E100 AND APPLICABLE MAINE DOT SPECIFICATIONS.

PART 1 - GENERAL (ALL MAY NOT APPLY)

1.01 RELATED DOCUMENTS:

THE GENERAL DOCUMENTS APPLY TO WORK SPECIFIED IN THIS SECTION; CONSULT THEM IN DETAIL FOR APPLICABLE INSTRUCTIONS.

1.02 WORK INCLUDED:

PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK OF THIS SECTION, WITHOUT RESTRICTING THE GENERALITY OF THE FOREGOING. THE FOLLOWING ITEMS OF WORK ARE INCLUDED:

- A. PERMITS AND FEES
- B. TEMPORARY POWER AND LIGHT
- C. PANELBOARDS
- D. RACEWAYS
- E. BOXES
- F. WIRING
- G. GROUNDING
- H. WIRING DEVICES AND PLATES
- I. CONNECTIONS TO EQUIPMENT
- J. DIRECTORIES AND NAMEPLATES
- K. TESTING
- L. CLEANING AND REMOVAL OF RUBBISH
- M. SUBMITTALS

1.03 RELATED WORK OF OTHER SECTIONS

A. N/A

1.04 QUALITY ASSURANCE

A. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR THE PROPER PERFORMANCE OF THE WORK OF THIS SECTION.

B. ALL WORK SHALL BE OF THE HIGHEST QUALITY IN CONFORMANCE WITH THE BEST PRACTICES OF THE TRADE AND IN COMPLIANCE WITH ALL GOVERNING CODES.

1.05 CODES, PERMITS, FEES, AND REGULATIONS

A. ALL WORK SHALL BE CARRIED OUT IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE AND OF THE VARIOUS LOCAL AGENCIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENTAL TAXES, FEES, DEPOSITS AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN NECESSARY APPROVALS OF ALL AGENCIES HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS FOR HIS WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

1.06 STORAGE OF MATERIALS

A. STORE MATERIALS AND EQUIPMENT ON THE PREMISES WHERE DIRECTED BY THE OWNER.

1.07 OTHER TRADES

B. THIS CONTRACTOR SHALL COOPERATE TO THE FULLEST WITH ALL OTHER TRADES. THEY SHALL PLAN THEIR WORK IN SUCH A WAY, AND FURNISH ALL NECESSARY EQUIPMENT AND INFORMATION TO THE OTHER TRADES SO AS NOT TO DELAY ANY OTHER TRADE OR HINDER THE PROGRESS OF THE WORK.

1.08 SUBMITTALS

A. SUBMIT MANUFACTURERS TECHNICAL PRODUCT DATA LITERATURE FOR ALL MATERIALS SPECIFIED HEREIN. INDICATE AND HIGHLIGHT ON THE SUBMITTALS DETAILS OF ALL ITEMS TO INDICATE CORRECT INTERPRETATION OF THE CONTRACT DOCUMENTS. INCLUDE SUBMITTALS FOR THE FOLLOWING:

1. WIRING DEVICES
2. CABLES, CONDUIT, BOXES, AND SUPPORT MEDIA
3. LIGHT POLES
4. DISTRIBUTION EQUIPMENT

B. SHOP DRAWINGS

PART 2 - PRODUCTS (ALL MAY NOT APPLY)

2.01 GENERAL

A. ALL MATERIAL, EQUIPMENT, AND INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES:

1. 2020 NATIONAL ELECTRICAL CODE
2. STATE BUILDING CODE (IF APPLICABLE)
3. OSHA
4. LOCAL JURISDICTIONAL CODES

2.02 PANELBOARDS

A. PANELBOARDS ARE EXISTING AS DETAILED ON THE DRAWINGS. PROVIDE REQUIRED CIRCUIT BREAKERS PER SECTION 2.02.

B. CIRCUIT BREAKERS SHALL BE QUICK MAKE, QUICK BREAK, THERMAL MAGNETIC, TRIP INDICATING. AIC RATING, AMPACITY, SIZE, AND DETAILS OF PANELBOARDS AND BRANCH CIRCUIT. CIRCUIT BREAKERS SHALL BE AS INDICATED ON THE DRAWING PANEL SCHEDULES.

C. PANELBOARD MANUFACTURER SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL NEW PANELS IN ACCORDANCE WITH NEC 110. MANUFACTURER SHALL COORDINATE WITH LOCAL UTILITY FOR THE CALCULATED FAULT CURRENT AND PROVIDE ON WARNING LABEL PER NEC 110.24(B).

D. MARK ALL SWITCHBOARDS AND PANELBOARDS WHERE FEEDER ORIGINATES PER NEC 408.4(B)

2.04 WIRING DEVICES

A. FURNISH AND INSTALL QUALITY DEVICES BEARING UL LABEL FOR THE SERVICE AND ELECTRICAL RATING WHERE USED.

1. SWITCHES SHALL BE 20 AMPERE, 120/277 VOLT A.C. RATED AS SCHEDULED IN LEGEND.
2. GFCI DEVICES SHALL BE 20 AMPERE DUPLEX W/U GROUND PIN.
3. LABEL CIRCUIT #S AND PANEL DESIGNATIONS ON ALL COVERPLATES.

2.07 WIRES AND CABLES

A. PROVIDE AND INSTALL ALL WIRING AND CABLE AS REQUIRED TO CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED ON THE PLANS.

B. ALL WIRES SHALL BE STRANDED COPPER, 75 DEGREE C, AND 600 VOLT INSULATION.

C. FIXTURE WIRES SHALL NOT BE LESS THAN #12 GAUGE, AND SHALL BE TYPE SFF-2.

D. UNLESS INDICATED OTHERWISE ALL LIGHT AND POWER CONDUCTORS SHALL BE #12 GAUGE MINIMUM.

E. ALL LOW VOLTAGE CABLE SHALL BE RATED.

PART 3 - EXECUTION (ALL MAY NOT APPLY)

3.01 WORKMANSHIP

A. ALL WORK SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER BY COMPETENT MECHANICS THOROUGHLY SKILLED IN THEIR RESPECTIVE TRADES AND IN STRICT ACCORDANCE WITH CODE REQUIREMENTS AND THE RESPECTIVE MANUFACTURERS INSTRUCTIONS.

B. UPON COMPLETION OF ELECTRICAL WORK ALL PANELBOARDS AFFECTED SHALL HAVE UPDATED (TYPED) PANEL SCHEDULES ADHERED TO INSIDE OF DOOR.

3.04 BRANCH CIRCUITS

A. PROVIDE ALL CONDUITS, OUTLETS, BOXES, WIRES, SWITCHES, RECEPTACLES, ETC., FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS.

3.05 GROUNDING

A. THE ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. ALL GROUND SYSTEMS AND CONNECTIONS SHALL BE MECHANICALLY SECURE AND ELECTRICALLY CONTINUOUS.

3.06 LOCATION OF OUTLETS AND ELECTRICAL EQUIPMENT

A. THE PLANS SHOW CONDITIONS AS ACCURATELY AS POSSIBLE, BUT DO NOT NECESSARILY SHOW ALL THE FITTINGS, ETC. NECESSARY TO SUIT CONDITIONS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND LOCATIONS OF CONDUITS ARE APPROXIMATE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SITE ELEMENTS AND UNDERGROUND UTILITIES. BEFORE STARTING THE WORK THE CONTRACTOR SHALL REVIEW ALL OTHER DISCIPLINES DRAWINGS AND VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.

B. THE CONTRACTOR SHALL CAREFULLY CHECK WITH OTHER CONTRACTORS TO COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT WITH WORK OF OTHER TRADES.

C. THE CONTRACTOR SHALL CAREFULLY CHECK WITH OTHER CONTRACTORS TO COORDINATE THE LOCATION OF ANY UNDERGROUND ELECTRICAL OR OTHER EQUIPMENT WITH WORK OF OTHER TRADES. CONTRACTOR SHALL ALSO COORDINATE WITH 811 PRIOR TO COMMENCING WITH ANY UNDERGROUND WORK.

3.07 CLEANING AND REMOVAL OF RUBBISH

A. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, RUBBISH OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK.

B. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT.

3.08 IDENTIFICATION

A. PROVIDE TYPED, UPDATED PANEL SCHEDULES FOR ALL AFFECTED PANEL BOARDS UPON COMPLETION OF WORK.

B. PROVIDE ARC FLASH WARNING LABELS TO ELECTRICAL EQUIPMENT AS REQUIRED BY NEC ARTICLE 110.10. LABELS MUST BE VISIBLE TO MAINTENANCE, EXAMINING OR SERVICING PERSONNEL.

ABBREVIATION LIST

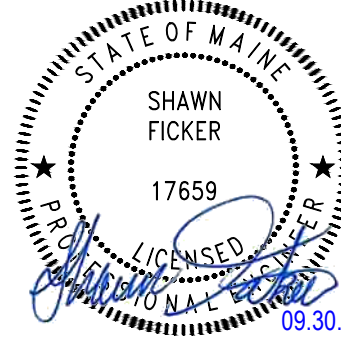
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	COMPUTER PANEL
DW	DISHWASHER
E	EXISTING
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EQUIP	EQUIPMENT
ELEC	ELECTRIC
EMT	ELECTRIC METALLIC TUBING
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
FLA	FULL LOAD AMPERES
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HPD	HORSEPOWER
HZ	HERTZ
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
K	KILO (THOUSAND)
LED	LIGHT-EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N	NEUTRAL
NF	NONFUSED
OS	OCCUPANCY SENSOR
PB	PULLBOX
Ø	PHASE
PH	PHASE
P	POLE
TV	OUTLET TV
SW	SWITCH
SWBD	SWITCHBOARD
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERE
W	WATT
WP	WEATHERPROOF
WM	WIREMOLD

ELECTRICAL LEGEND

	JUNCTION BOX
	PANELBOARD
	DISCONNECT SWITCH
	PULLBOX PER MAINE DOT SECTION 626 (DETAIL 626(06))
	EXISTING STREET LIGHT
	NEW STREET LIGHT XX DENOTES CIRCUIT #
	EXISTING UNDERGROUND ELECTRIC FEED
	NEW POWER TO POLE MOUNTED RECEPTACLES
	NEW UNDERGROUND ELECTRICAL FEED TO POLE
	NEW DMX ELECTRICAL FEED TO RGBW FESTOON LIGHTING
	NEW RGBW FESTOON LIGHTING
	ELECTRICAL KEYNOTE
	REVISION CALLOUT
	LUMINAIRE TYPE CALLOUT

VIEWSHED

TyLin



Project

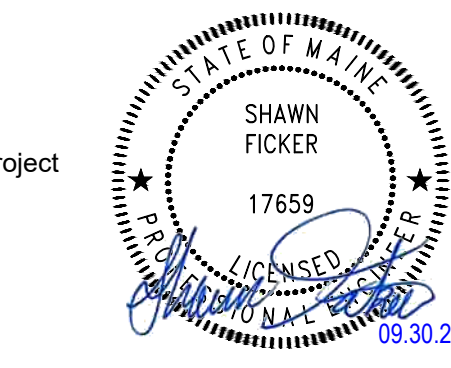
ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions

ELECTRICAL
GENERAL NOTES

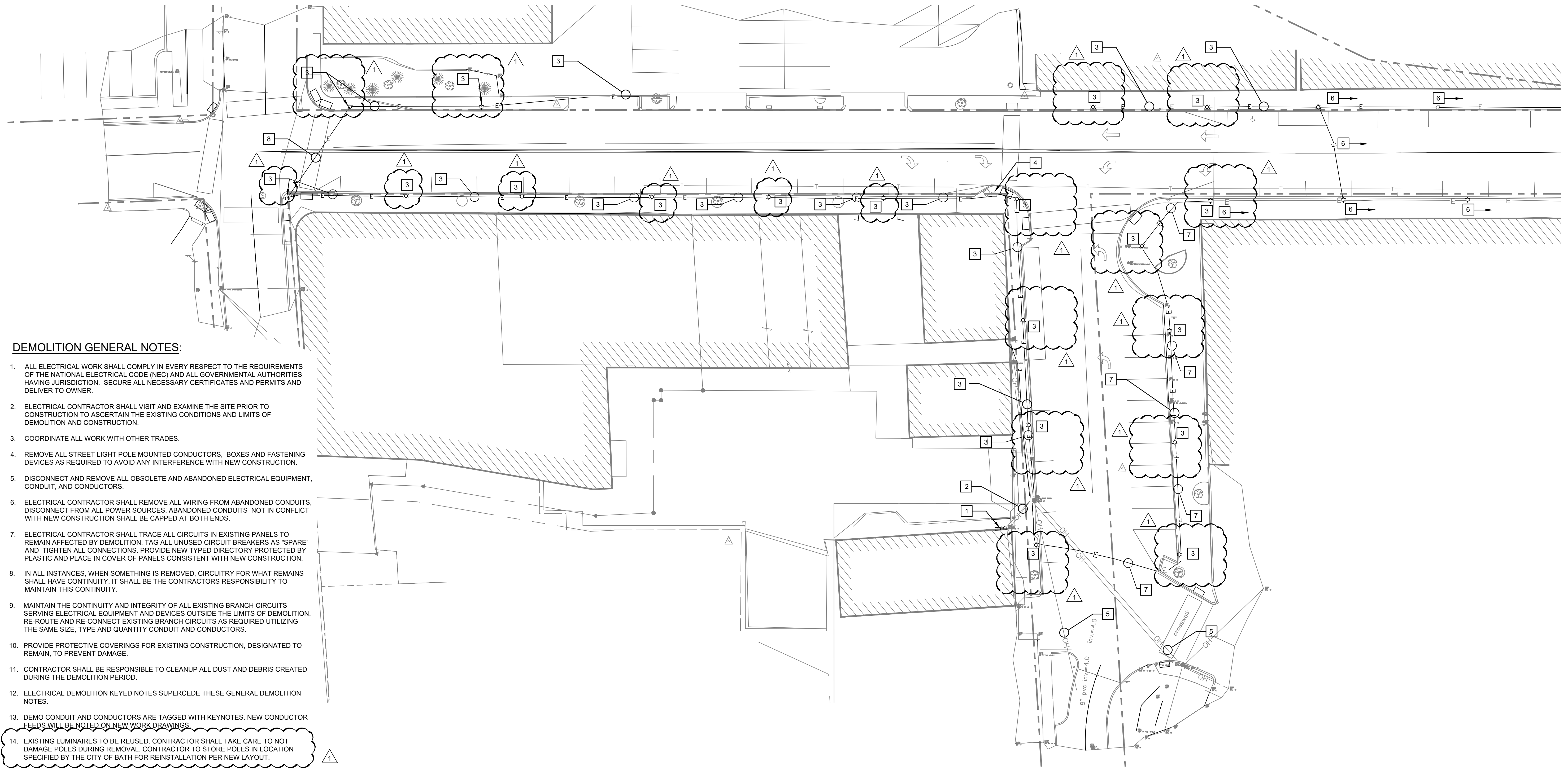
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Project

ELM & FRONT STREET RENOVATION
BATH, MAINE



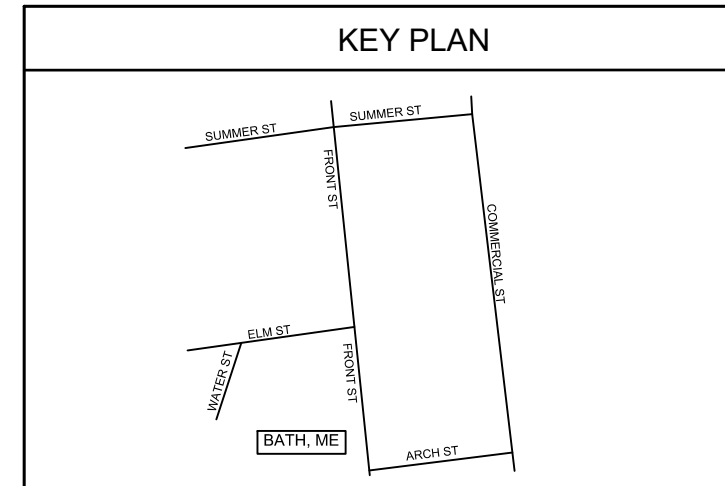
DEMOLITION GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY IN EVERY RESPECT TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION. SECURE ALL NECESSARY CERTIFICATES AND PERMITS AND DELIVER TO OWNER.
2. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
3. COORDINATE ALL WORK WITH OTHER TRADES.
4. REMOVE ALL STREET LIGHT POLE MOUNTED CONDUCTORS, BOXES AND FASTENING DEVICES AS REQUIRED TO AVOID ANY INTERFERENCE WITH NEW CONSTRUCTION.
5. DISCONNECT AND REMOVE ALL OBSOLETE AND ABANDONED ELECTRICAL EQUIPMENT, CONDUIT, AND CONDUCTORS.
6. ELECTRICAL CONTRACTOR SHALL REMOVE ALL WIRING FROM ABANDONED CONDUITS. DISCONNECT FROM ALL POWER SOURCES. ABANDONED CONDUITS NOT IN CONFLICT WITH NEW CONSTRUCTION SHALL BE CAPPED AT BOTH ENDS.
7. ELECTRICAL CONTRACTOR SHALL TRACE ALL CIRCUITS IN EXISTING PANELS TO REMAIN AFFECTED BY DEMOLITION. TAG ALL UNUSED CIRCUIT BREAKERS AS 'SPARE' AND TIGHTEN ALL CONNECTIONS. PROVIDE NEW TYPED DIRECTORY PROTECTED BY PLASTIC AND PLACE IN COVER OF PANELS CONSISTENT WITH NEW CONSTRUCTION.
8. IN ALL INSTANCES, WHEN SOMETHING IS REMOVED, CIRCUITRY FOR WHAT REMAINS SHALL HAVE CONTINUITY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THIS CONTINUITY.
9. MAINTAIN THE CONTINUITY AND INTEGRITY OF ALL EXISTING BRANCH CIRCUITS SERVING ELECTRICAL EQUIPMENT AND DEVICES OUTSIDE THE LIMITS OF DEMOLITION. RE-ROUTE AND RE-CONNECT EXISTING BRANCH CIRCUITS AS REQUIRED UTILIZING THE SAME SIZE, TYPE AND QUANTITY CONDUIT AND CONDUCTORS.
10. PROVIDE PROTECTIVE COVERINGS FOR EXISTING CONSTRUCTION, DESIGNATED TO REMAIN, TO PREVENT DAMAGE.
11. CONTRACTOR SHALL BE RESPONSIBLE TO CLEANUP ALL DUST AND DEBRIS CREATED DURING THE DEMOLITION PERIOD.
12. ELECTRICAL DEMOLITION KEYED NOTES SUPERCEDE THESE GENERAL DEMOLITION NOTES.
13. DEMO CONDUIT AND CONDUCTORS ARE TAGGED WITH KEYNOTES. NEW CONDUCTOR FEEDS WILL BE NOTED ON NEW WORK DRAWINGS.
14. EXISTING LUMINAIRES TO BE REUSED. CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE POLES DURING REMOVAL. CONTRACTOR TO STORE POLES IN LOCATION SPECIFIED BY THE CITY OF BATH FOR REINSTALLATION PER NEW LAYOUT.

KEY NOTES:

- 1 EXISTING LOAD CENTER FEEDING EXISTING STREETLIGHTS. LOAD CENTER TO REMAIN IN PLACE.
- 2 EXISTING FEED TO LOAD CENTER FROM POLE MOUNTED UTILITY FEED TO REMAIN.
- 3 REMOVE EXISTING STREET LIGHTS. RETAIN INTEGRITY OF LUMINAIRE AND POLE FOR REUSE. REFER TO GENERAL DEMO NOTE #14. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. REFER TO DEMOLITION GENERAL NOTES, THIS DRAWING.
- 4 COORDINATE WITH UTILITY FOR ANY EXISTING DISTRIBUTION BOXES BEING REPLACED. MAINTAIN CONTINUITY TO THESE BOXES. IF NEW DISTRIBUTION BOXES ARE TO BE PROVIDED IN NEW LOCATIONS, COORDINATE WITH UTILITY, AND NEW WORK ELECTRICAL DRAWINGS.
- 5 EXISTING OVERHEAD UTILITY LINES. NIC.
- 6 EXISTING LIGHT POLES, CIRCUIT, CONDUCTORS AND CONDUITS BEYOND THIS POINT OF PROJECT TO REMAIN INTACT.
- 7 REMOVE CONNECTIONS TO POLES AND FIXTURES BEING REPLACED. MAINTAIN CONTINUITY OF CIRCUIT AND CONDUIT FEEDING LIGHT POLES OUTSIDE OF PROJECT LIMITS.
- 8 REMOVE CONDUCTORS, AND ABANDON CONDUITS AND CAP AT THIS LOCATION.

1 DEMO ELECTRICAL PLAN
E200



Revisions
1 9.27.24 UPDATED LUMINAIRE INFORMATION

EXISTING AND DEMO ELECTRICAL PLAN

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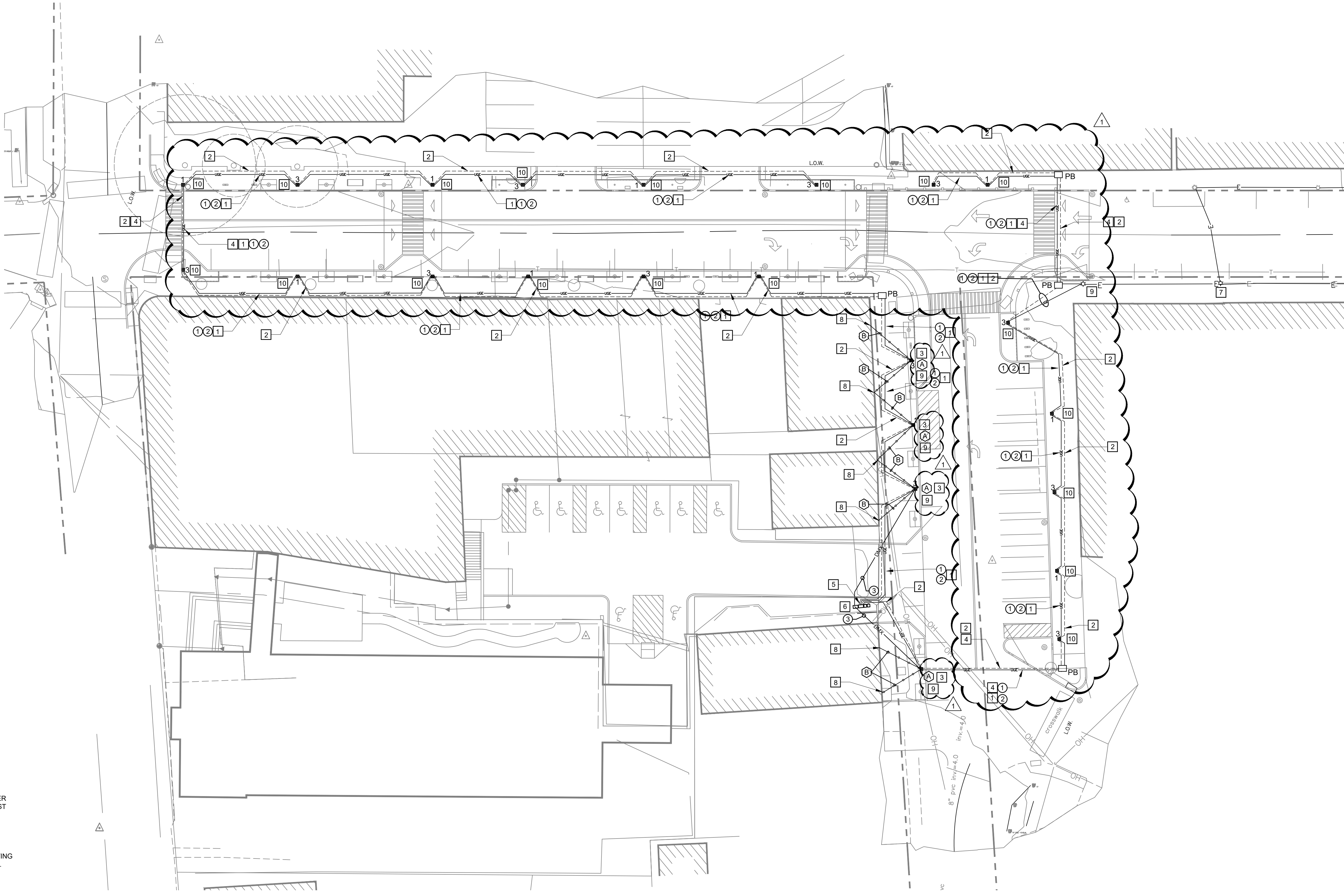
E200

GENERAL NOTES:

1. ALL MATERIALS SHALL BE U.L. LISTED WHEN SUCH LISTINGS EXIST. ALL WORK AND MATERIALS SHALL CONFORM TO ALL APPLICABLE BUILDING CODES, REGULATIONS AND LAWS IN FORCE AS WELL AS THE ELECTRICAL SPECIFICATIONS.
2. EC SHALL FURNISH AND PROVIDE PAYMENT FOR ALL ELECTRICAL PERMITS.
3. CONTRACTOR SHALL INSTALL NEW ELECTRICAL DEVICES, ALONG WITH ANY SPECIAL INSTALLATION ATTRIBUTES, IN LOCATIONS SHOWN ON PLAN.
4. ALL ELECTRICAL WORK SHALL COMPLY IN EVERY RESPECT TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL GOVERNMENT AMENDMENTS.
5. CONTRACTOR SHALL CALL DIGSAFE 811 TO VERIFY ALL EXISTING UTILITY LOCATIONS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHOULD ALSO COORDINATE ALL UTILITY CONFLICTS WITH THE ENGINEER BEFORE INSTALLING THE NEW LIGHT POLES AND CONDUITS. THE CONTRACTOR SHOULD COORDINATE WITH THE CITY OF BATH TO VERIFY THE LOCATION OF THE ANY TRAFFIC SIGNAL CONDUIT AND LOOPS. IF A UTILITY IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL REPAIR THE UTILITY IN ACCORDANCE WITH THE LOCAL UTILITY AGENCY.
6. ALL EXISTING BASEMAP INFORMATION SHOWN ON THIS DRAWING IS FROM VARIOUS RECORD PLANS PROVIDED BY THE CITY OF BATH AND CENTRAL MAINE POWER (CMP). CONTRACTOR SHOULD VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO STARTING WORK FOR THIS PROJECT. COORDINATE WITH SITE/CIVIL DRAWINGS.
7. CONTRACTOR TO MAINTAIN AND PROTECT ANY EXISTING UTILITY LINES WITHIN THE LIMITS OF WORK FOR THIS PROJECT. THE NEW STREET LIGHTING SYSTEM SHOULD BE PLACED AT LOCATIONS THAT WILL NOT IMPACT THE EXISTING UTILITY LINES. CONTRACTOR TO VERIFY THE LOCATION OF THE EXISTING UTILITY LINES PRIOR TO EXCAVATION TO INSTALL THE NEW STREET LIGHT SYSTEM. NO EXCAVATIONS SHALL BE LEFT OPEN OVER NIGHT.
8. CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING STREET SIGNS WITHIN THE PROJECT LIMITS. IF AN EXISTING SIGN IS IN CONFLICT WITH A PROPOSED LIGHTING CONDUIT/POLE INSTALLATION THE CONTRACTOR SHALL REMOVE/RELOCATE THE SIGN IN CONFORMANCE WITH THE CITY OF BATH. ALL SIGN WORK SHALL BE PAID FOR UNDER THE APPROPRIATE ITEM NUMBER FOR SIGN REMOVAL AND RELOCATION.
9. ALL CONDUIT FOR ROADWAY LIGHTING SHALL BE 2" SCHEDULE 80 PVC WHERE NOT SUBJECT TO VEHICULAR TRAFFIC AND RIGID GALVANIZED STEEL WHERE SUBJECT TO TRAFFIC. ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW INSULATION. CONDUCTOR SIZES SHALL MATCH EXISTING LIGHTING CIRCUIT CONDUCTORS.
10. ALL CONNECTION AND DISCONNECTION OF CIRCUIT CONDUCTORS TO THE CENTRAL MAINE (CMP) POWER SYSTEM SHALL BE COMPLETED BY THE UTILITY.
11. WHERE EXISTING LIGHTING CIRCUITS BRANCH OFF TO FEED LIGHTING ON OTHER STREETS, ENSURE THAT CIRCUIT CONTINUITY IS MAINTAINED. COORDINATE WITH THE CITY OF BATH STREET LIGHTING DIVISION FOR CIRCUIT DIAGRAMS.
12. POWER CIRCUITS SHALL BE AS SHOWN ON THE LIGHTING DRAWINGS AND DRAWING E400.
13. CONDUITS RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWING. FINAL ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE OWNER.
14. ALL LIGHTING POLES SHALL BE GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. SEE DETAIL ON DRAWING E400.
15. ALL EQUIPMENT AND WIRING SHALL BE WEATHERPROOF.
16. UNDERGROUND CABLE SHALL BE UL LISTED.
17. CONDUIT TRENCH SHALL BE 4" DEEP WITH 4" SAND BEDDING AND 12" SAND COVER INSTALLED OVER CONDUIT BEFORE BACKFILLING. COORDINATE WITH MUNICIPALITY REQUIREMENTS.
18. CONDUIT RUNS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE WITH METAL STRIP INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE.
19. BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CONDUIT.
20. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CONDUIT SHALL BE COORDINATED AND APPROVED BY THE OWNER.
21. SUFFICIENT LENGTH FOR WIRES CONNECTED TO CENTRAL MAIN POWER ELECTRICAL SERVICE MUST BE PROVIDED.
22. REFER TO CENTRAL MAINE POWER ELECTRIC DISTRIBUTION CONSTRUCTION STANDARDS MANUAL AS REQUIRED.

KEY NOTES:

- 1 POWER FEED FROM CITY OF BATH PROVIDED LOAD CENTER FOR LIGHTING AND POWER TO POLE MOUNTED RECEPTACLES. TYPICAL FOR ALL CONDUIT RUNS UNDER FRONT ST AND ELM ST. REFER TO DWG. E400 FOR DETAILS.
- 2 SPARE 2" SCHEDULE 80 PVC CONDUITS. RUN PARALLEL WITH POWER AND LIGHTING CONDUIT. PROVIDE PULL STRINGS ON ALL SPARE CONDUITS.
- 3 PROVIDE POWER TO FESTOON LIGHTING FROM DMX TRANSFORMER. REFER TO DRAWING E400 FOR DETAILS. PROVIDE CATENARY CABLE TO PROVIDE SUPPORT FOR DMX FEED.
- 4 SEE GENERAL NOTES #9, & 10 ON ELECTRICAL NOTES. (TYPICAL FOR ALL UNDERGROUND CONDUIT RUNS) RUN (2) SETS (1) EMPTY UNDER FRONT ST. AND ALL OTHER STREET CROSSINGS.
- 5 REFER TO DRAWING E400 FOR FURTHER INFORMATION ON THE STREET LIGHTING LOAD CENTER ON THE SW CORNER OF THE "BEST THAI II" RESTAURANT BUILDING.
- 6 CONNECT DMX CONTROL BOX TO EXISTING LIGHTING LOAD CENTER. REFER ALSO TO DRAWING E400.
- 7 EXISTING LIGHT POLES TO REMAIN. REPLACE EXISTING CONDUIT AND CONDUCTORS AND CONNECT TO LIGHTING FEED FROM EXISTING CIRCUIT BREAKERS 1,3.
- 8 COORDINATE WITH MANUFACTURERS REP AND CITY OF BATH FOR ATTACHING FESTOON LIGHTING TO BUILDING (TYP)
- 9 LUMINAIRE AND POLE SHAFT ARE NEW AT THIS LOCATION. REFER TO DRAWING E-400 FOR INFORMATION.
- 10 LUMINAIRE AND POLE SHAFT ARE EXISTING TO BE REUSED IN THIS LOCATION. PROVIDE NEW POLE FOUNDATION. REFER TO DRAWING E-200 GENERAL DEMO NOTE #14. COORDINATE WITH THE CITY OF BATH.

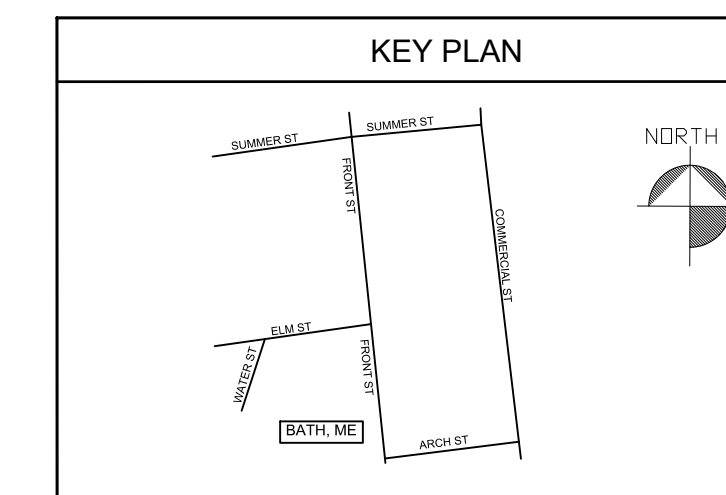
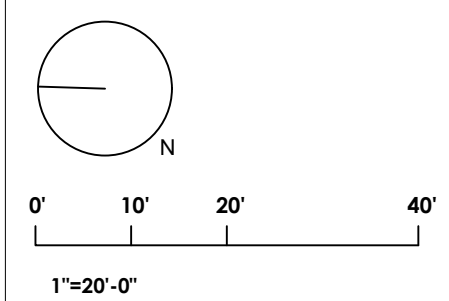


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E300

NEW LIGHTING POWER PLAN

WIRE AND CONDUIT SCHEDULE

CALLOUT	CONDUIT AND CONDUCTORS	GOING TO	WIRE TYPE
1	(3) #6 + (1) #10 GND IN 2" SCHED. 80 PVC	LIGHTING PANEL FEEDING NEW POLE MOUNTED LUMINAIRES	XHHW
2	(2) #8 + (1) #10 GND IN 2" SCHED. 80 PVC	LIGHTING PANEL FEEDING POLE MOUNTED DUPLEX RECEPTACLES	XHHW
3	POWER FEED PER MFR UP THROUGH 2" SCHED. 80 PVC TO WEATHERHEAD TO OVERHEAD FOR FESTOON LIGHTING	DMX PANEL CONTROL FEEDS TO N SIDE ELM ST FESTOON LTG	PER MFR



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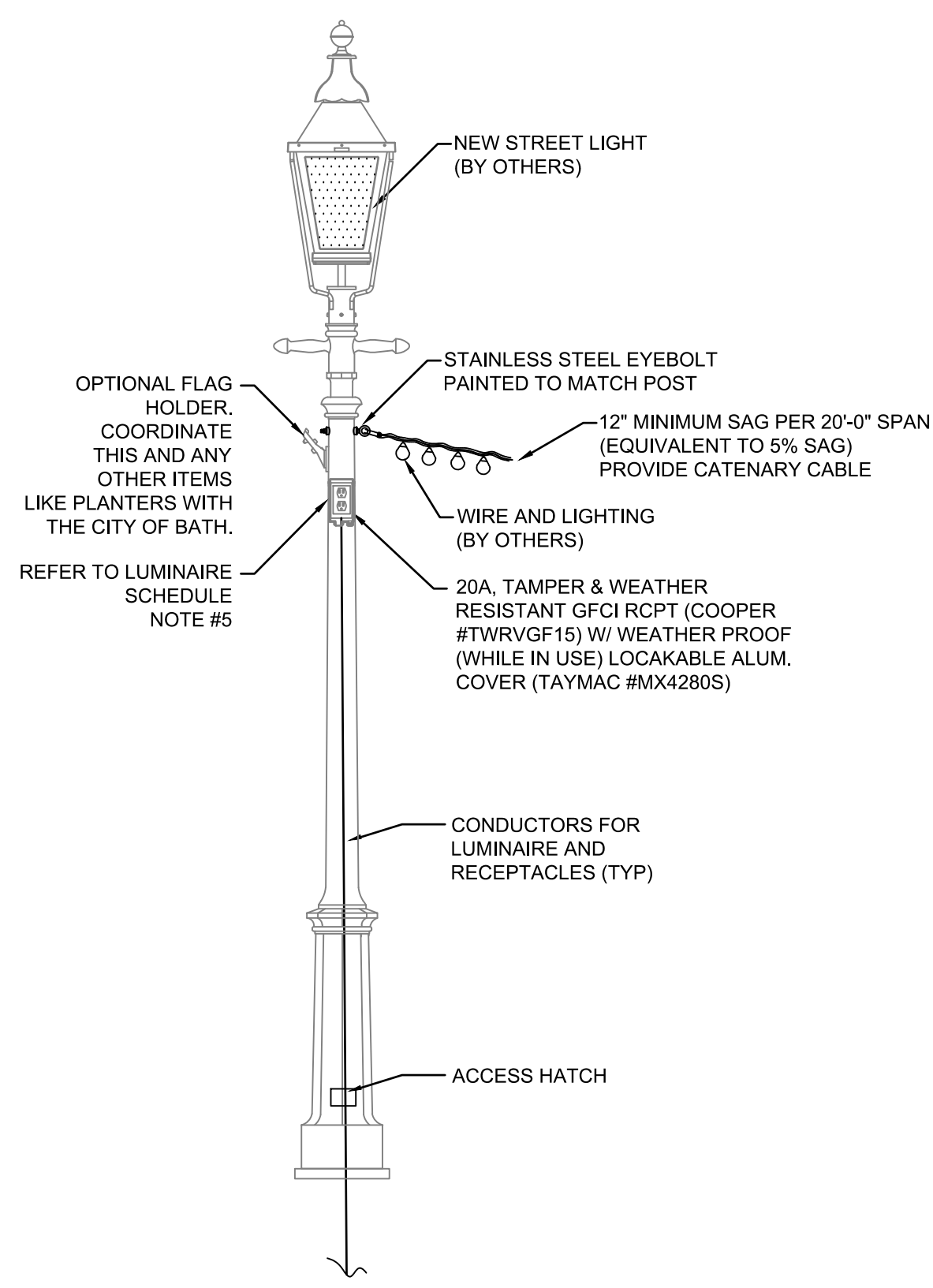
**ELM & FRONT STREET RENOVATION
BATH, MAINE**

Revisions
9.27.24 UPDATED LUMINAIRE INFORMATION

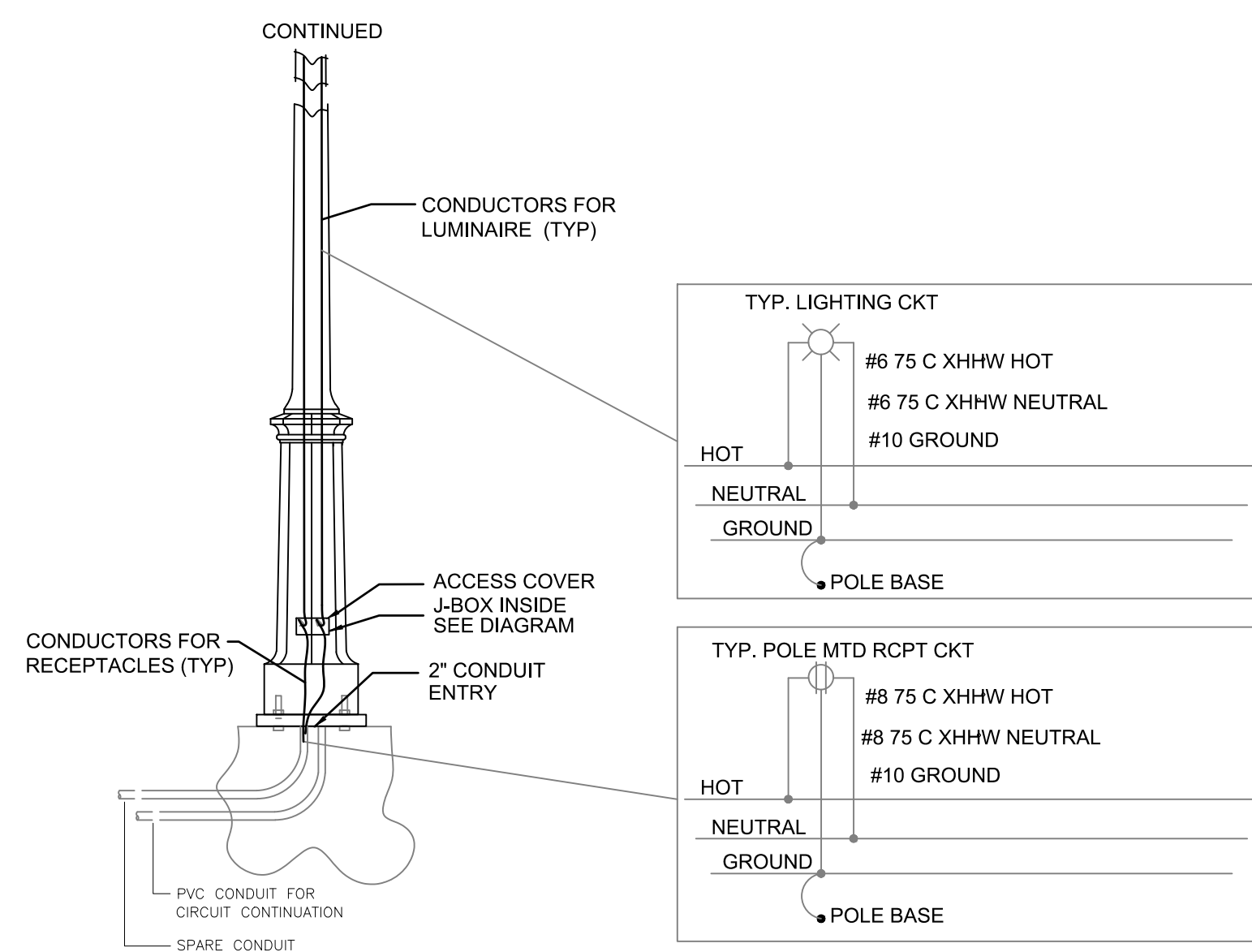
**ELECTRICAL
NEW WORK
PLAN**

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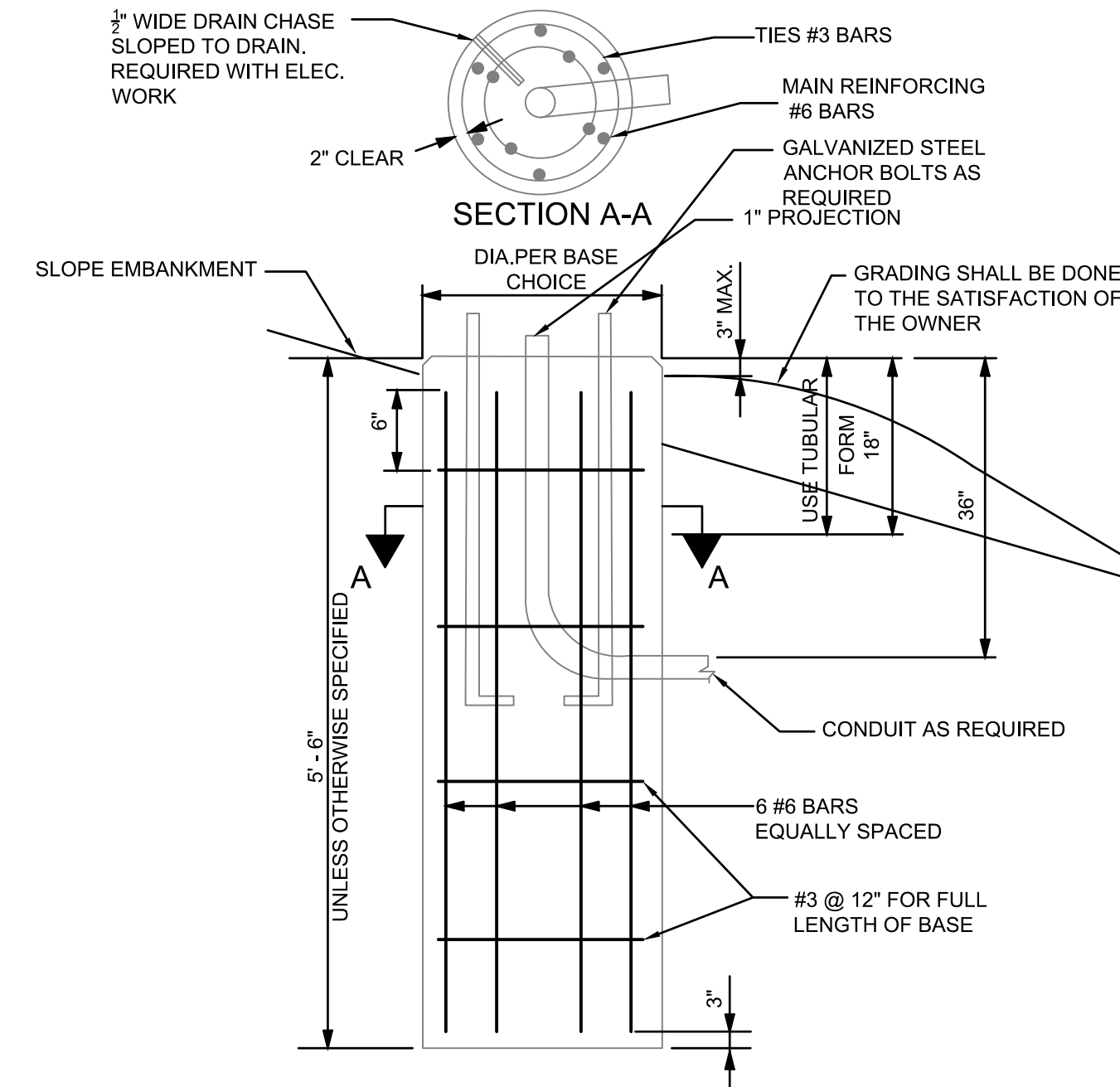
E300



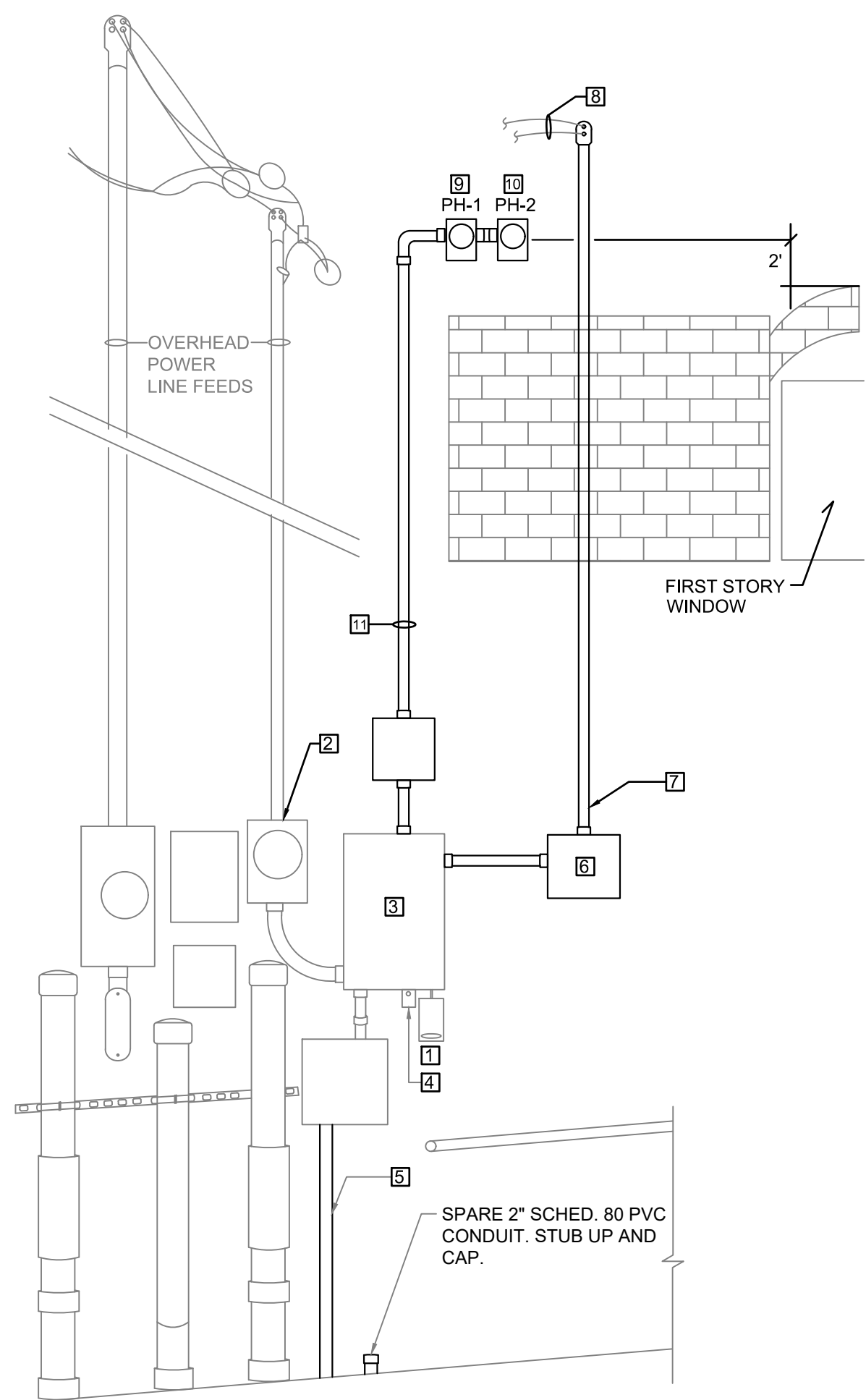
1 LIGHT POLE DETAIL
E400 NOT TO SCALE



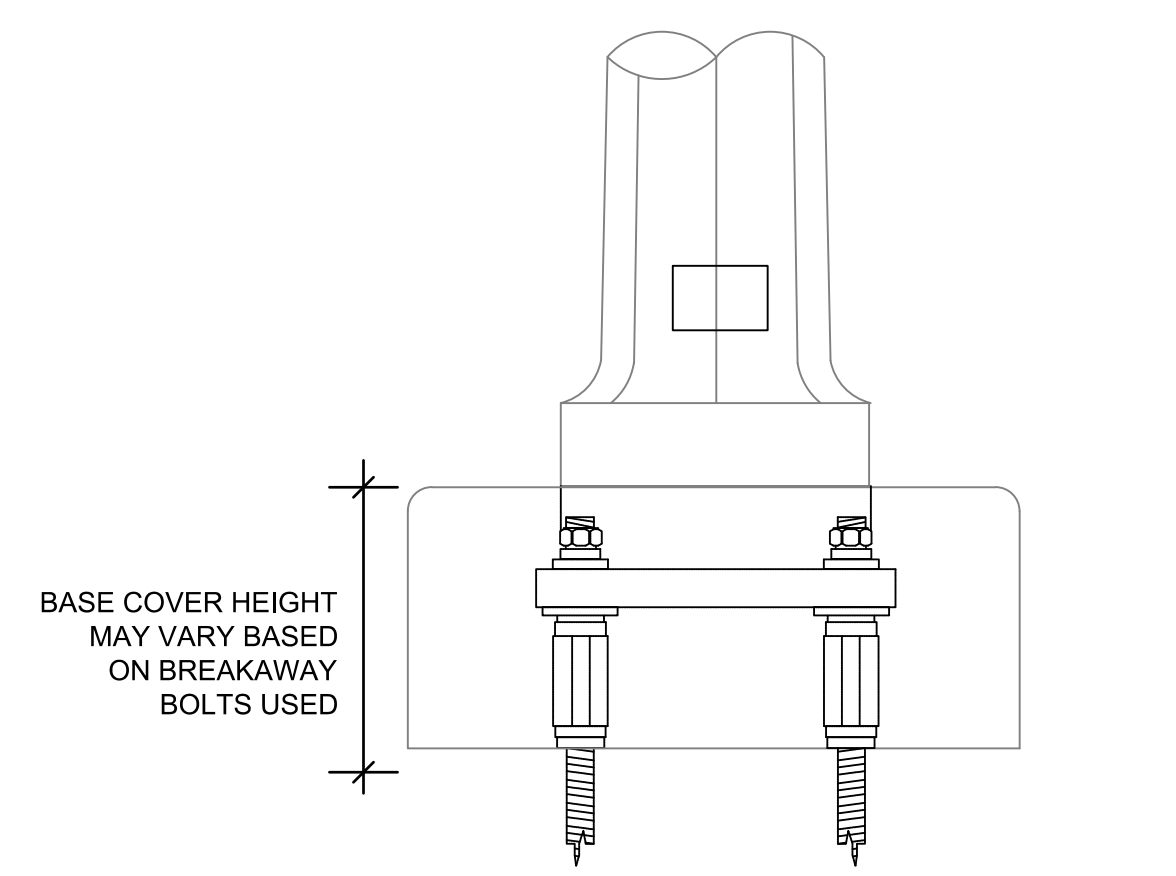
2 LIGHT POLE POWER FEED DETAIL
E400 NOT TO SCALE



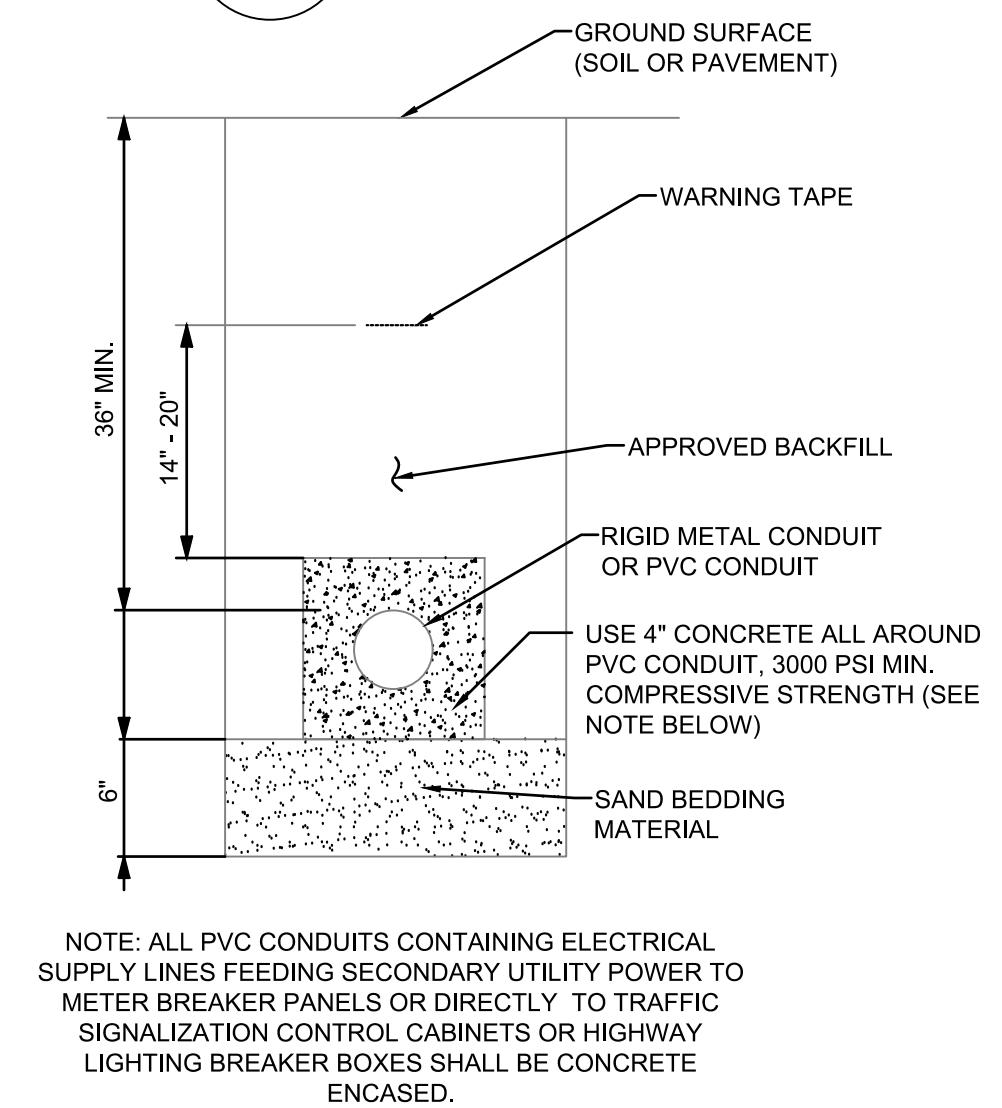
3 GENERIC POLE BASE DETAIL
E400 NOT TO SCALE



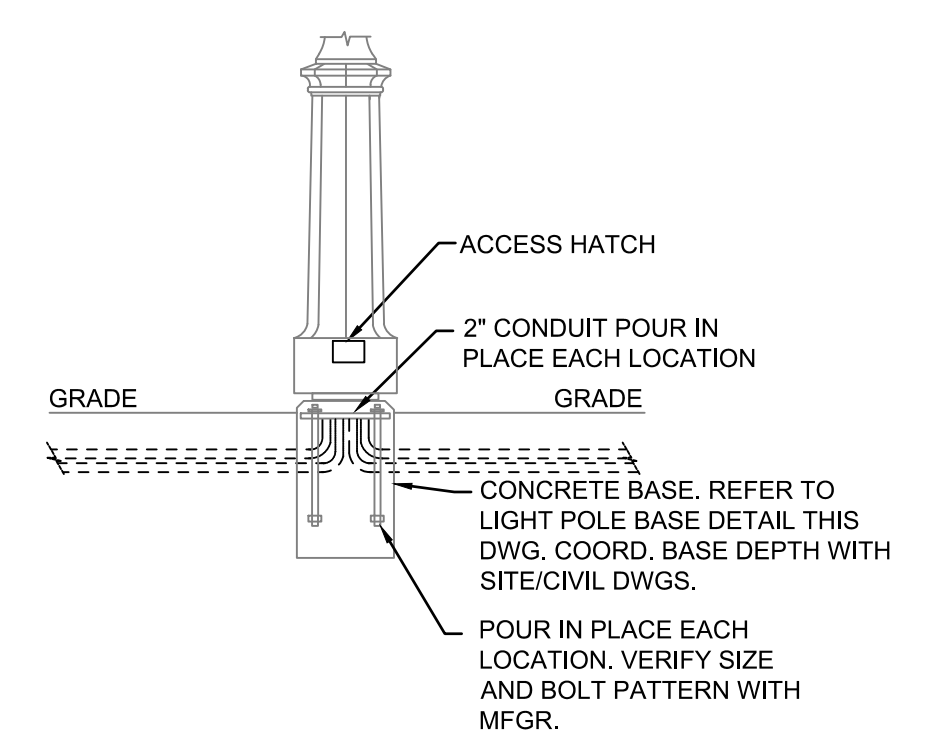
4 EXISTING LIGHTING POWER RISER DIAGRAM
E400 NOT TO SCALE



5 BREAKAWAY BASE DETAIL
E400 NOT TO SCALE



6 UNDERGROUND CONDUIT DETAIL (600 VOLTS OR LESS)
E400 NOT TO SCALE



7 SIDEWALK POLE MOUNTING DETAIL
E400 NOT TO SCALE

EXISTING LIGHTING PANEL													
MAIN CIRCUIT BREAKER: 100A				PROJECT NAME: ELM AND FRONT ST RENOVATION BATH, ME.									
MAIN BUS: 100A				FED FROM: UTILITY				LOCATION: S.E. CORNER 23 ELM ST.					
VOLTAGE: 120/240V-1P-3W													
DESCRIPTION	PHASE WATTAGE		BREAKER			BREAKER			PHASE WATTAGE		DESCRIPTION		
	ØA	ØB	POLE	AMP	CKT	BUS	CKT	AMP	POLE	ØA		ØB	
EXISTING * + NEW LIGHTING	1320		2	50	1		2	20	1	1920	EXISTING		
EXISTING		1320	-	-	3		4	20	2	112.5	NEW LIGHTING ELM ST		
EXISTING SPACE	3840		1	40	5		6	-	-	112.5	FESTOON LIGHTING		
					7		8	20	1		SPACE		
					9		10				POLE MTD RECEPTACLES FRONT ST SOUTH SIDE & ELM ST		
					11		12	30	1	2070			
					13		14						
					15		16						
					17		18						
					19		20						
PANEL PHASE TOTALS										ØA	ØB	CALCULATED LOAD VALUES	
										7192.50	4654.50	TOTAL CONNECTED kw	11.85kw
										0000	0000	TOTAL CONNECTED A	57A

* CIRCUITS 1 & 3 ARE ASSUMED TO BE THE EXISTING LIGHTING FEED. CONTRACTOR TO VERIFY IN FIELD, PERFORM PHASE LOAD BALANCING, AND SUBMIT PANELBOARD SCHEDULE FOR REVIEW.

- GENERAL POWER/DATA NOTES:**
- ALL MATERIALS SHALL BE U.L. LISTED WHEN SUCH LISTINGS EXIST. ALL WORK AND MATERIALS SHALL CONFORM TO ALL APPLICABLE BUILDING CODES, REGULATIONS AND LAWS IN FORCE AS WELL AS THE ELECTRICAL SPECIFICATIONS.
 - CONTRACTOR SHALL INSTALL NEW ELECTRICAL DEVICES, ALONG WITH ANY SPECIAL INSTALLATION ATTRIBUTES, IN LOCATIONS SHOWN ON PLAN.
 - CONTRACTOR SHALL SURVEY SPACE TO ENSURE THAT ALL DEVICE LOCATIONS ARE ACCESSIBLE.
 - CONTRACTOR SHALL DETERMINE IN ADVANCE THE ADEQUACY OF THE SITES ELECTRICAL EQUIPMENT. ANY COSTS FOR ADDITIONAL EQUIPMENT SHALL BE INCLUDED IN THE COST.
 - ALL CIRCUIT NUMBERS ARE FOR REFERENCE ONLY.

LUMINAIRE SCHEDULE								
TYPE	DESCRIPTION	BALLAST/DRIVER	COLOR/TEMP.	DISTRIBUTION	LAMPS/WATTS	VOLTAGE	BASIS OF DESIGN MAKE/MODEL	NOTES
(A)	POST TOP LUMINAIRE	ELECTRONIC	3000K	T3	LED 30	120-277	SPRING CITY ELECTRICAL NBP-LE030-2G3-30-CR3-YPL0	1, 2, 3, 5
(B)	FESTOON LIGHTING	ELECTRONIC	-	-	PER SPEC	24V	TIVOLI LITESPHERE TRUE RGB-W	1, 2, 3, 4

- NOTES:**
- COORDINATE ALL LUMINAIRE SPECIFICATIONS WITH OWNER PRIOR TO ORDERING. IE: FINISH COLOR, COLOR TEMPERATURE OF LIGHT.
 - THE SPECIFIED LUMINAIRE SERVES AS THE BASIS OF DESIGN. ANY SUBSTITUTIONS SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND BE SUBMITTED FOR APPROVAL.
 - ALL LIGHTING WORK TO MEET STREET LIGHTING STANDARDS INCLUDED IN THE CONTRACT MANUAL.
 - COORDINATE FESTOON LIGHTING SPECIFICATIONS WITH MANUFACTURERS REP.
 - COORDINATE HEIGHT OF POLE MOUNTED RECEPTACLE WITH MANUFACTURERS REP. AND CITY OF BATH.

PHOTOCELL SCHEDULE				
DESCRIPTION	LOAD CAPACITY	VOLTAGE	BASIS OF DESIGN MAKE/MODEL	NOTES
PH-1 PHOTOCELL	1800VA	120-277	PRECISION T-15-AL	1
PH-2 PHOTOCELL	3000VA	120-277	PRECISION T-30-AL	2

- NOTES:**
- THE SPECIFIED PHOTOCELL SERVES AS THE BASIS OF DESIGN FOR CONTROL OF STREET LIGHTING. ANY SUBSTITUTIONS SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND BE SUBMITTED FOR APPROVAL.
 - THE SPECIFIED PHOTOCELL SERVES AS THE BASIS OF DESIGN FOR CONTROL OF POLE MOUNTED RECEPTACLES. ANY SUBSTITUTIONS SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND BE SUBMITTED FOR APPROVAL.

From: ALLOY CASTINGS CO., INC.
Quality Aluminum Castings Since 1948
151 West Union Street • East Bidgewater, MA 02333
Telephone: (508) 378-2541 • FAX: (508) 378-1240
www.alloycastings.com

Plymouth Style Decorative Pole

LAMP POST SPECIFICATIONS
Style: Plymouth
Height: 9'6" ± and 11' ±
Base: 13-1/2" ± Square
Tension: 4 3/4" ± Diameter
Optional Tension Heights and diameters available.
Material: Heavy Duty Cast - Aluminum 356 Alloy
Finish: Primed and Finish Painted to your Specifications
Access Door: Located in Base
Anchor Bolts: (4) 3/4" x 24" plus 3" Hook including 1 lock washer
2 flat washers and two nuts. Fully lubricated.
Bolt Projection: 2" Above Foundation
Bolt Circle: 14-1/8" ± Diameter

Features: Post Heights Available as 9'6", 11'3" ± in Cast Aluminum. Variety of Heights Are Available Using Span Aluminum Shafts.

Luminaire Options: There is a wide variety of luminaires available. Consult factory for options.

Finish Options: A wide variety of colors are available using the finest quality paints. Thermostat powder coating is available upon request.

Accessory Options: Ladder rungs decorative brackets available.

ANCHOR BOLT DETAIL
14 1/8" DIA. BOLT CIRCLE FOR 3/4" ANCHOR BOLTS

LANTERN SPECIFICATIONS:
MANUFACTURER: AMERICAN MANTLE COMPANY
STYLE: NEWBURYPORT MODEL #910P
HEIGHT: 42"
WIDTH: 15.75"
MATERIALS: 24 OZ. COPPER WITH CRADLE IN MILD STEEL
LENS PANEL: POLYCARBONATE SHEET

LAMPING:
LOWER: MEDIUM BASE PORCELAIN SOCKET
UPPER: MOGUL BASE PORCELAIN SOCKET

FINISH: BLACK PAINT FINISH FOR FIXTURE / POWDER COATED
CRADLE
OPTION: HURRICANE FROSTED CHIMNEY

ACDP-P-9'4" SCALE: 3/4" = 1 FOOT

- NOTES:**
- COORDINATE ALL POLE SPECIFICATIONS WITH OWNER AND MANUFACTURER PRIOR TO ORDERING. IE: FINISH COLOR, MATERIAL, SHAPE AND/OR BREAKAWAY MODEL.
 - THE SPECIFIED LIGHT POLE SERVES AS THE BASIS OF DESIGN. ANY SUBSTITUTIONS SHALL MEET THE REQUIREMENTS OF THE OWNER AND BE SUBMITTED FOR APPROVAL.
 - POST TOP LANTERN SPECIFIED COMES WITH PORCELAIN BASE SOCKETS. COORDINATE WITH CITY OF BATH FOR LED LAMPS.

- POWER RISER DIAGRAM KEYNOTES:**
- EM GENERATOR PLUG IN. EXISTING TO REMAIN.
 - STREETLIGHT METER BOX. EXISTING TO REMAIN.
 - STREETLIGHT BREAKER BOX. EXISTING TO REMAIN.
 - EXISTING STREETLIGHT PHOTOCELL TO REMAIN.
 - REPLACE EXISTING CONDUIT WITH NEW SCHED. 80 - PVC CONDUIT FOR UNDERGROUND STREETLIGHT AND POLE RECEPTACLE FEEDS.
 - NEW TIVOLI ADNM-DAT DMX CONTROL BOX FOR RGB FESTOON LIGHTING, OR APPROVED EQUAL.
 - 2" SCHED. 80 PVC DMX CONTROL FEED.
 - CONTRACTOR TO RUN DMX POWER/CONTROL CABLE TO POLE TO FEED FESTOON LIGHTING. COORDINATE WITH THE CITY OF BATH FOR GUY WIRE CONNECTIONS.
 - PH-1 PHOTOCELL FOR CONTROL OF POLE LIGHTING.
 - PH-2 PHOTOCELL FOR CONTROL OF POLE MOUNTED RECEPTACLES.
 - 2" SCHED. 80 PVC EACH FOR PHOTOCELL FEEDS.

VIEWSHED

T/Lin

STATE OF MAINE
SHAWN FICKER
17659
LICENSED
09.30.2024

ELM & FRONT STREET RENOVATION BATH, MAINE

Revisions
9.27.24 UPDATED LUMINAIRE INFORMATION

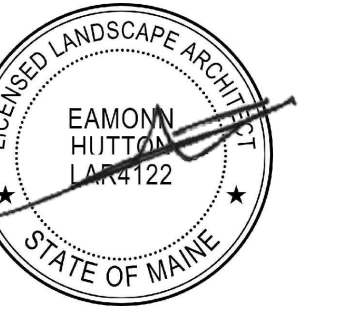
ELECTRICAL SCHEDULES & DETAILS

DRAWN: AMG
CHECKED: SF
DATE: 6/21/2024
SHEET

E400



Stamp



Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

Revisions

1	SLP	100% DD	2023.10.06
2	JVH	75% C.D.	2024.01.05
3	JFH	100% C.D.	2024.03.15
4	JFH	Bid Set	2024.05.08

PLANTING PLAN

DRAWN SLP / JVH
CHECKED ESH
DATE 2024.03.15
SHEET

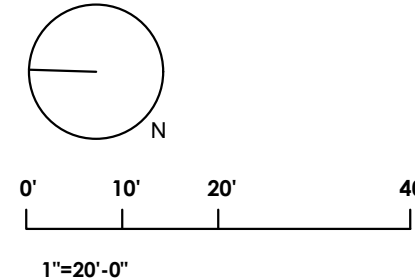
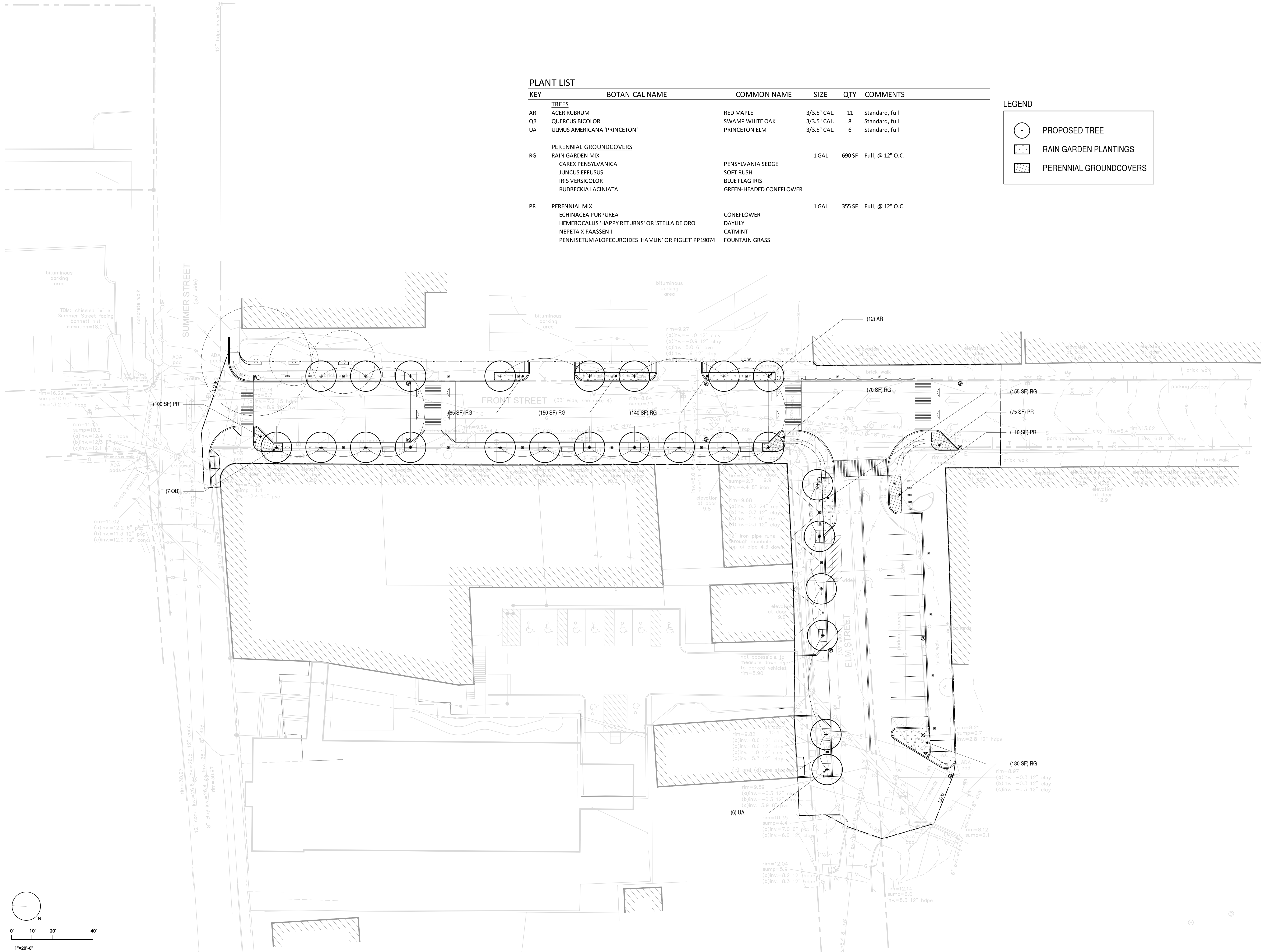
P100

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY	COMMENTS
TREES					
AR	ACER RUBRUM	RED MAPLE	3/3.5" CAL.	11	Standard, full
QB	QUERCUS BICOLOR	SWAMP WHITE OAK	3/3.5" CAL.	8	Standard, full
UA	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	3/3.5" CAL.	6	Standard, full
PERENNIAL GROUNDCOVERS					
RG	RAIN GARDEN MIX CAREX PENNSYLVANICA JUNCUS EFFUSUS IRIS VERSICOLOR RUDBECKIA LACINIATA	PENNSYLVANIA SEDGE SOFT RUSH BLUE FLAG IRIS GREEN-HEADED CONEFLOWER	1 GAL	690 SF	Full, @ 12" O.C.
PR	PERENNIAL MIX ECHINACEA PURPUREA HEMEROCALLIS 'HAPPY RETURNS' OR 'STELLA DE ORO' NEPETA X FAASSENII PENNISETUM ALPECUROIDES 'HAMLIN' OR 'PIGLET' PP19074	CONEFLOWER DAYLILY CATMINT FOUNTAIN GRASS	1 GAL	355 SF	Full, @ 12" O.C.

LEGEND

- PROPOSED TREE
- RAIN GARDEN PLANTINGS
- PERENNIAL GROUNDCOVERS



ELM & FRONT STREET RENOVATION
 BATH, MAINE

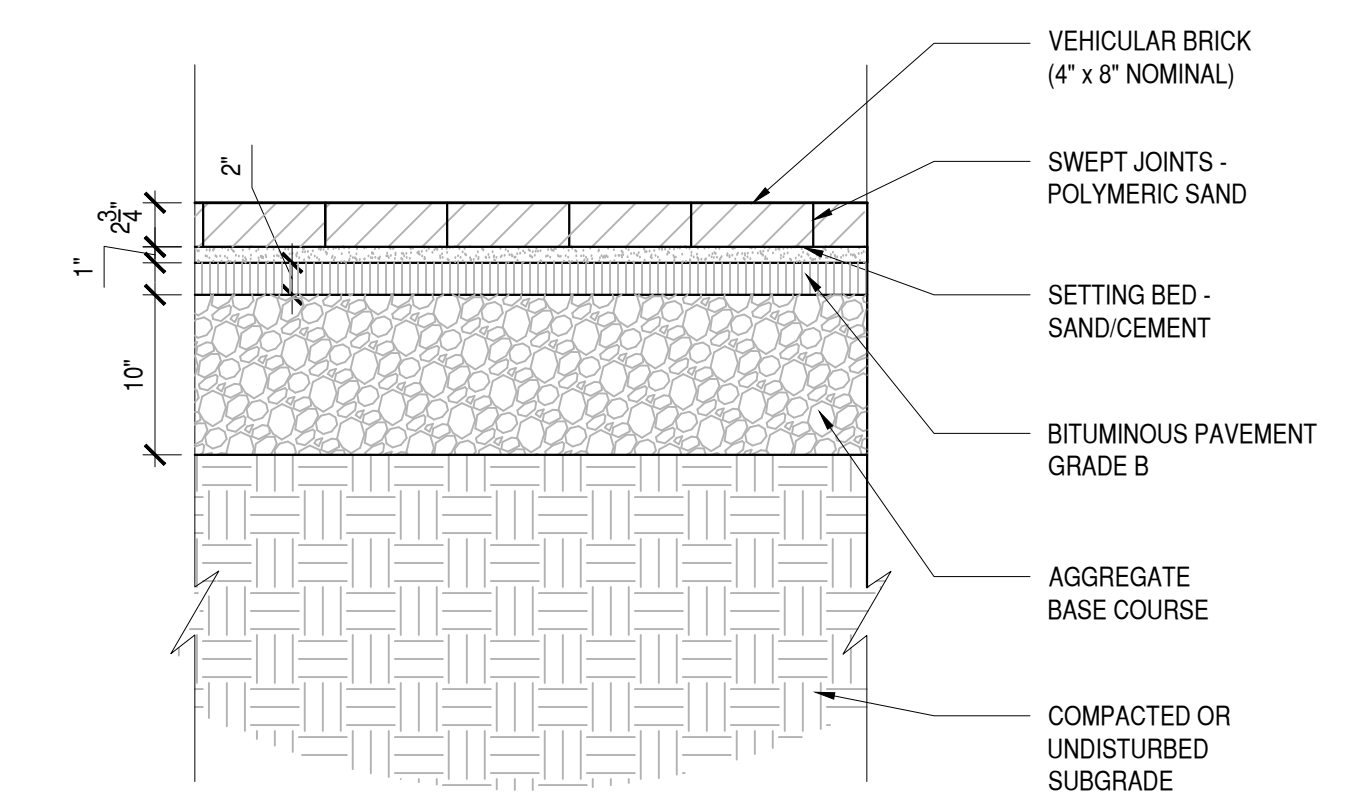
Revisions

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2	JVH	75% C.D.	2024.01.05
3	JFH	100% C.D.	2024.03.15

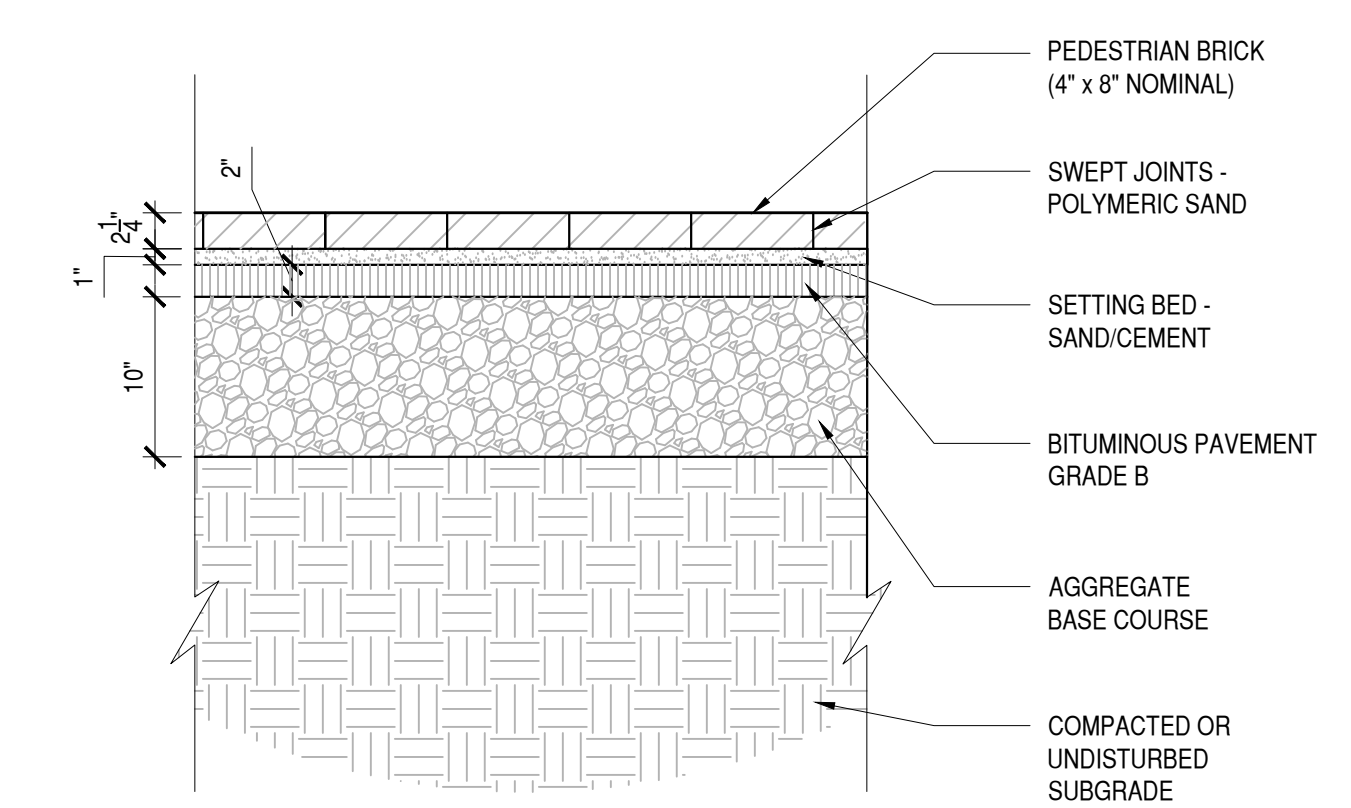
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10	8	5	2
	7	4	1

CONSTRUCTION
 DETAIL

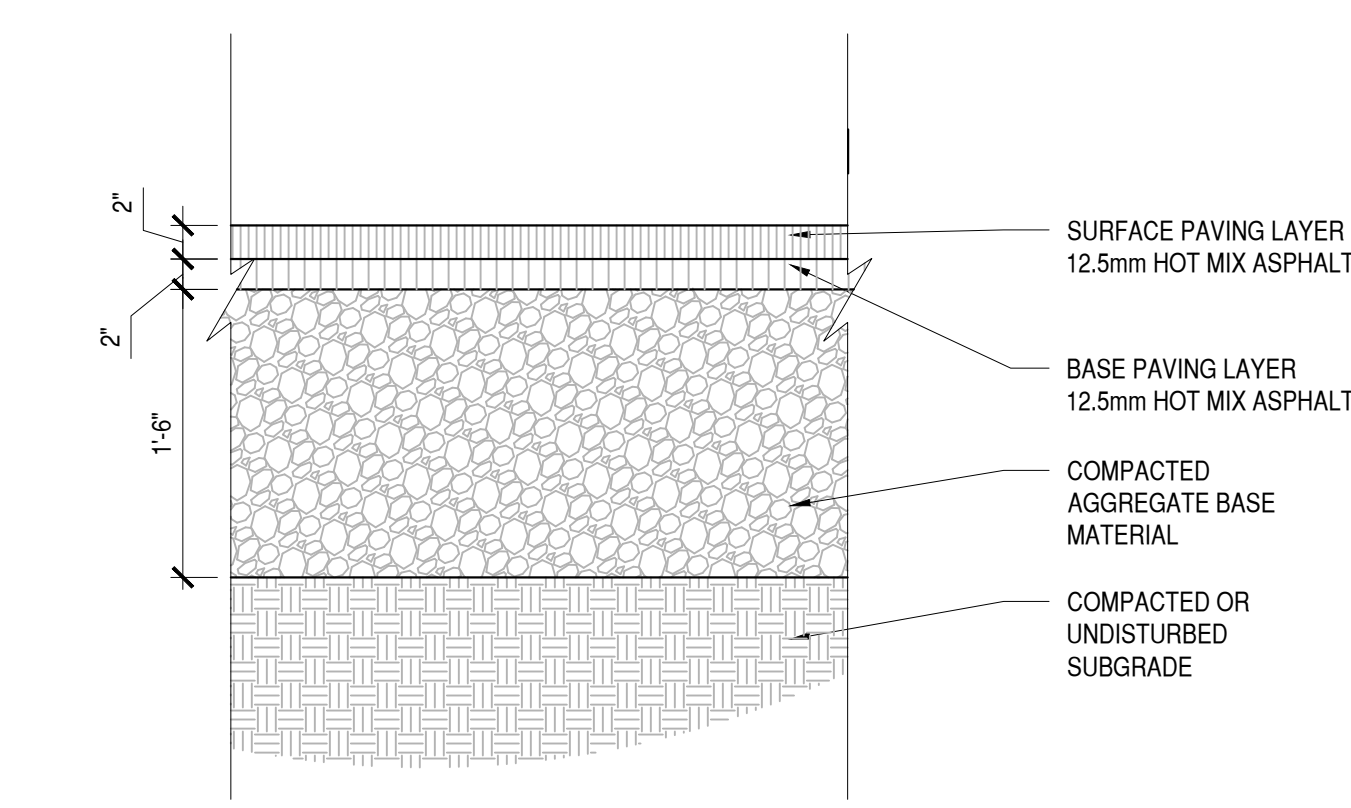
DRAWN: JVH
 CHECKED: EH
 DATE: 2024.03.15
 SHEET



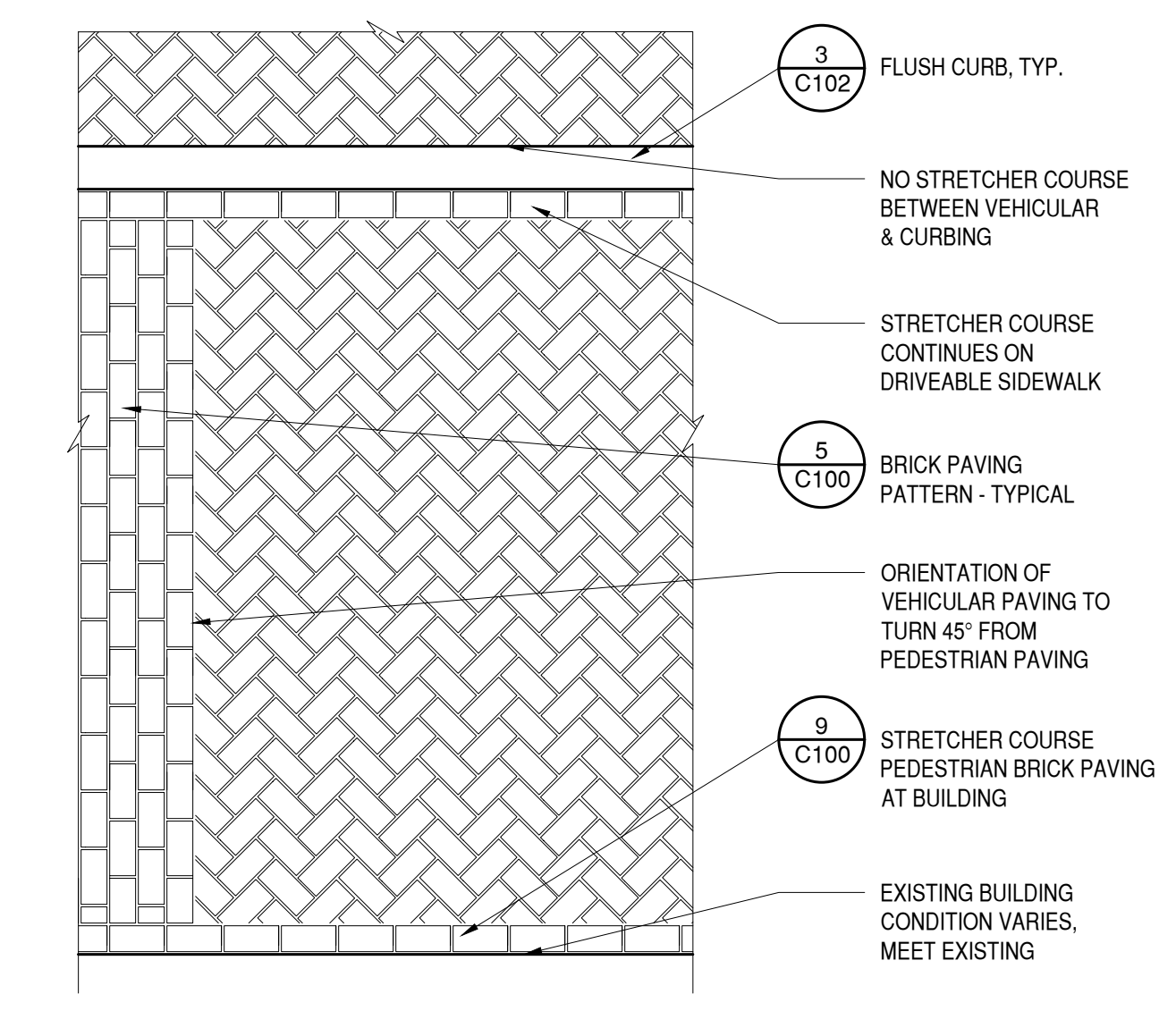
3 BRICK PAVERS - VEHICULAR
 1" = 1'-0"



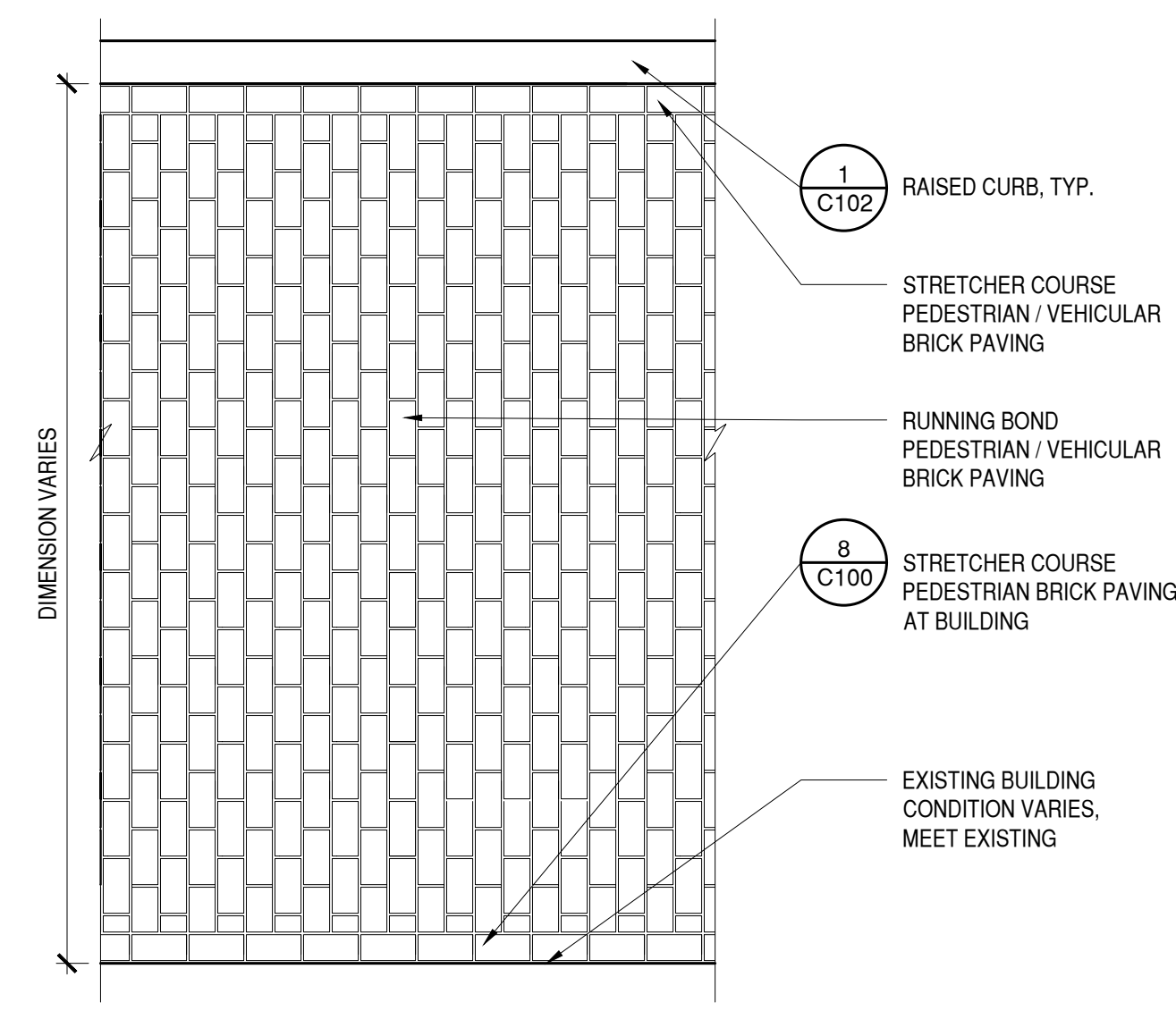
2 BRICK PAVERS - PEDESTRIAN
 1" = 1'-0"



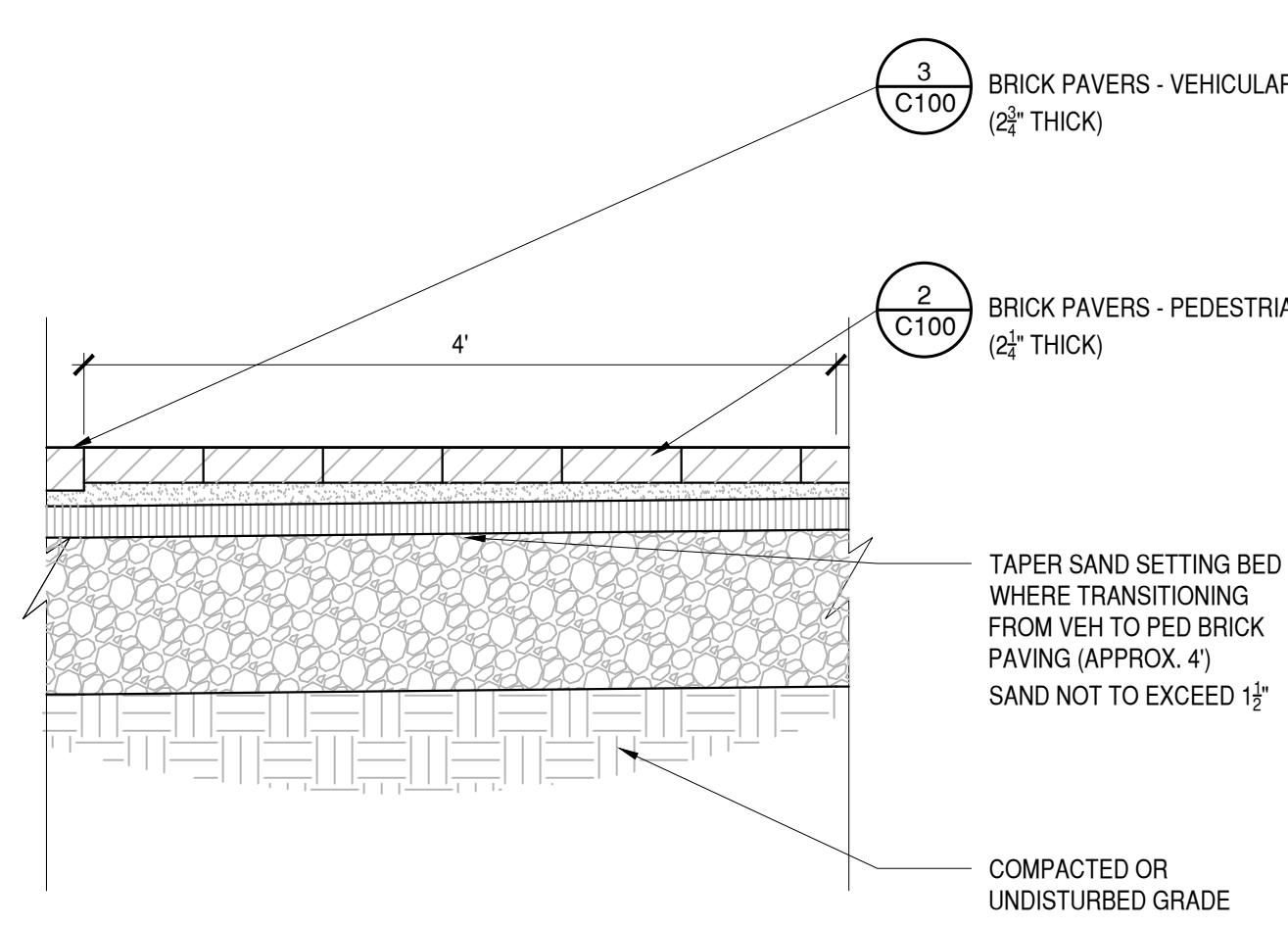
1 ASPHALT PAVING - TYP.
 1" = 1'-0"



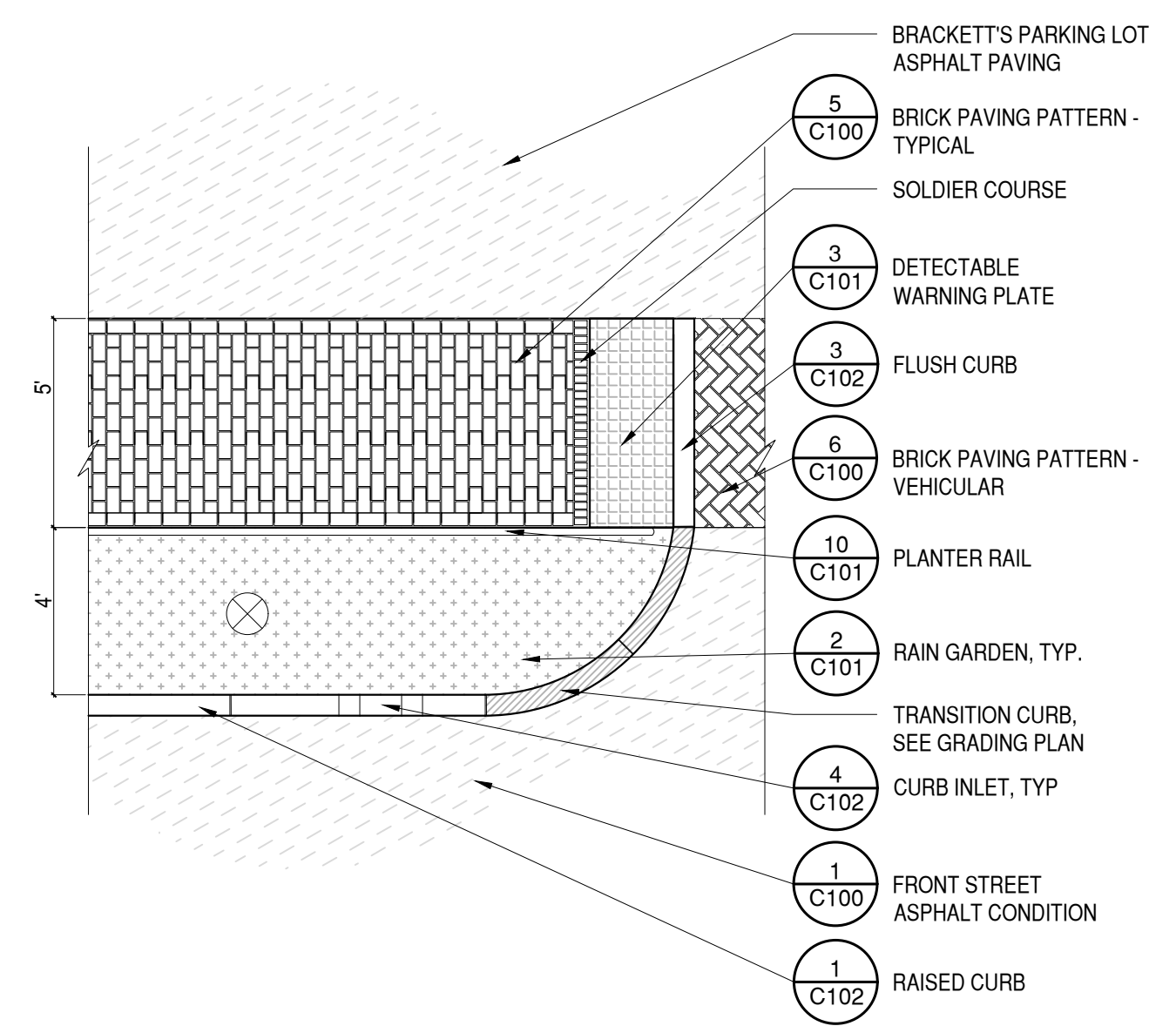
6 BRICK PAVING PATTERN - VEHICULAR
 1/2" = 1'



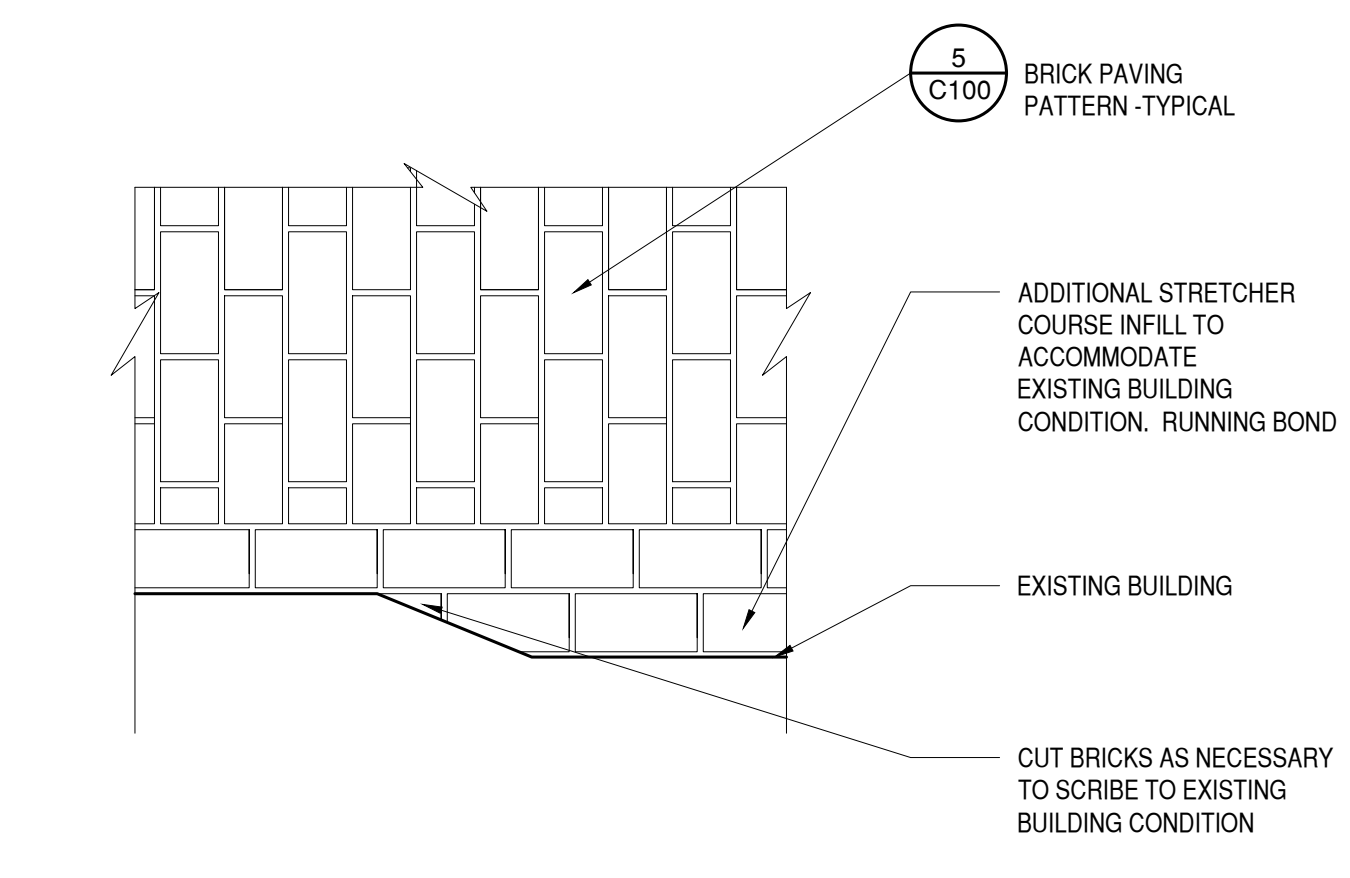
5 BRICK PAVING PATTERN - TYPICAL
 1/2" = 1'



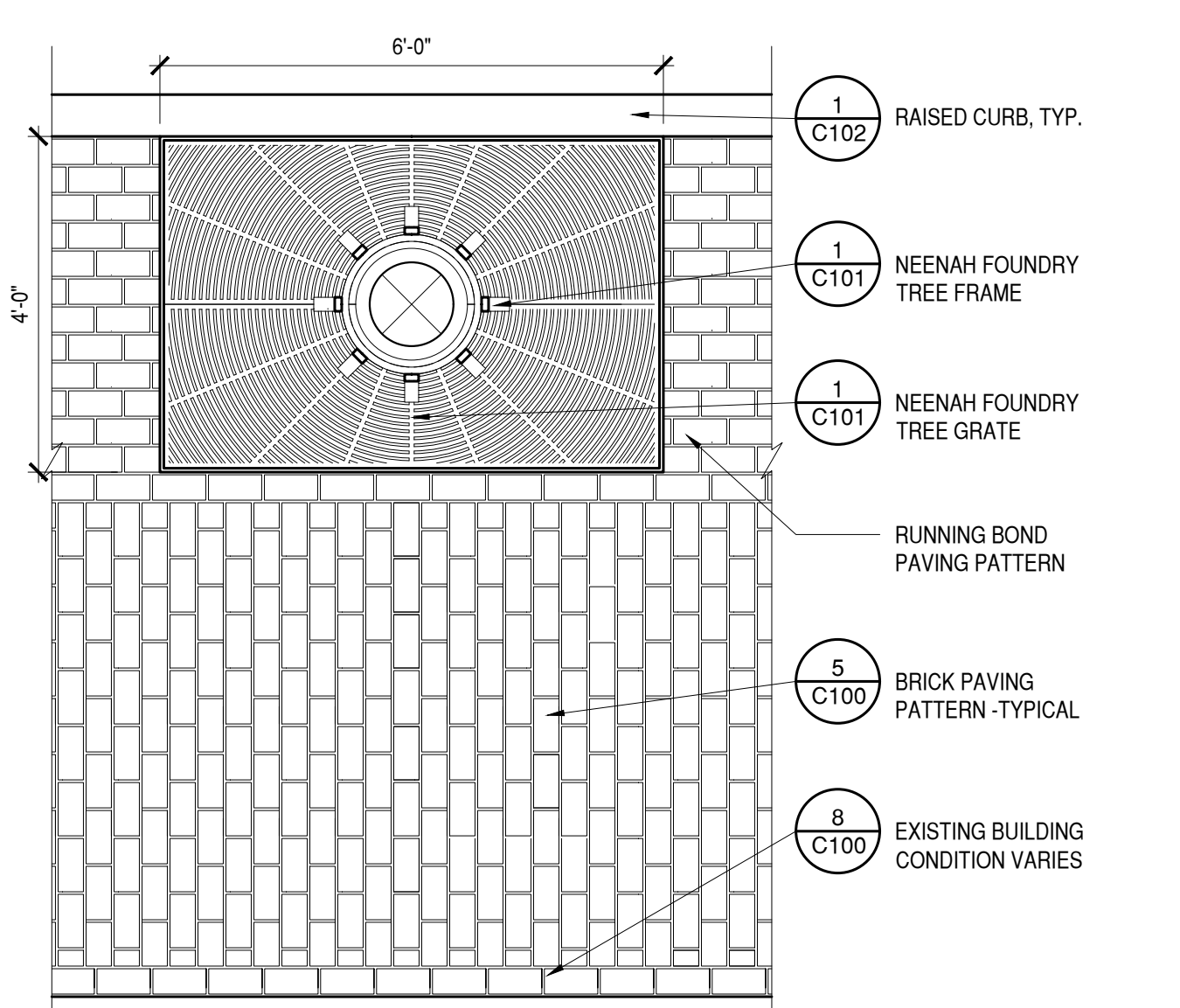
4 BRICK PAVERS - VEHIC. / PED. INTERFACE
 1" = 1'-0"



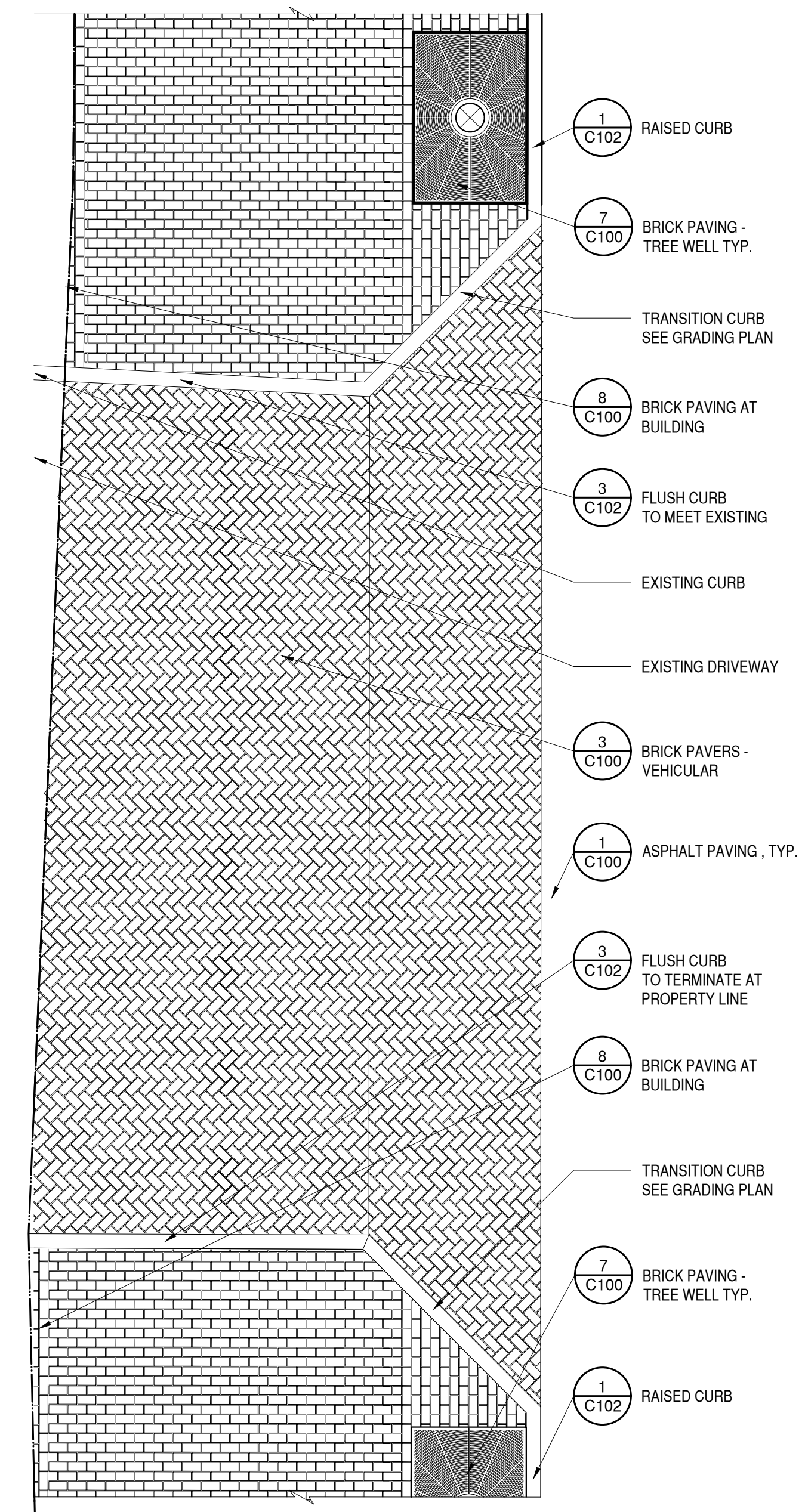
9 BRICK PAVING - BRACKETT PARKING & FRONT TYP.
 1/4" = 1'



8 BRICK PAVING AT BUILDING
 1" = 1'-0"



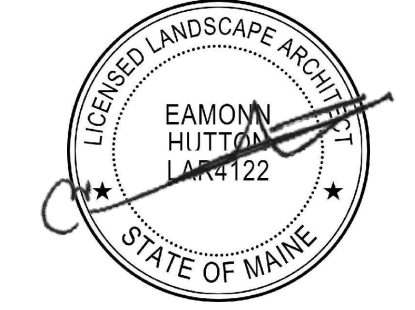
7 BRICK PAVING - TREE WELL TYP.
 1/2" = 1'



10 BRICK PAVING - ELM STREET DRIVEWAY
 1/4" = 1'

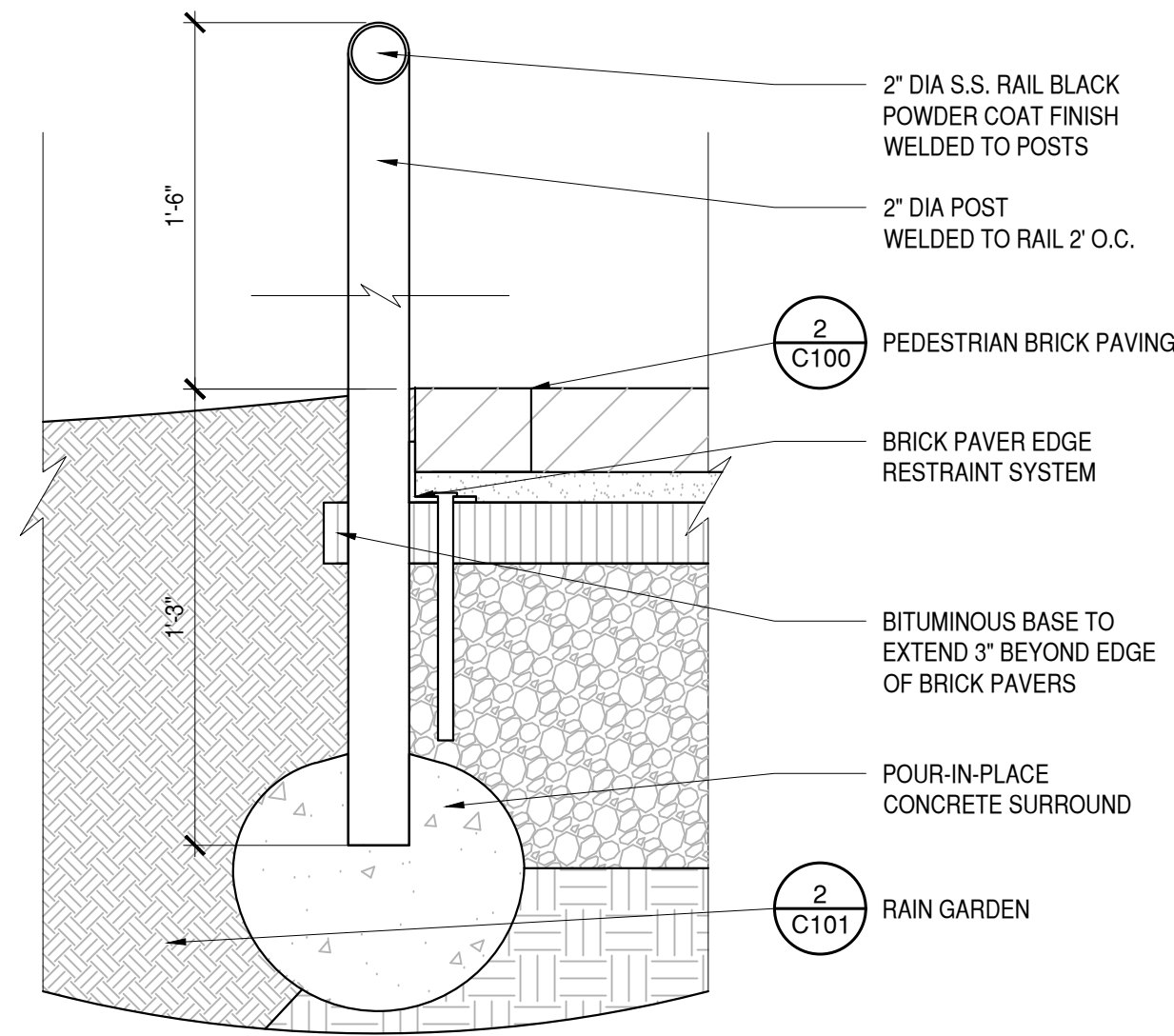


Stamp

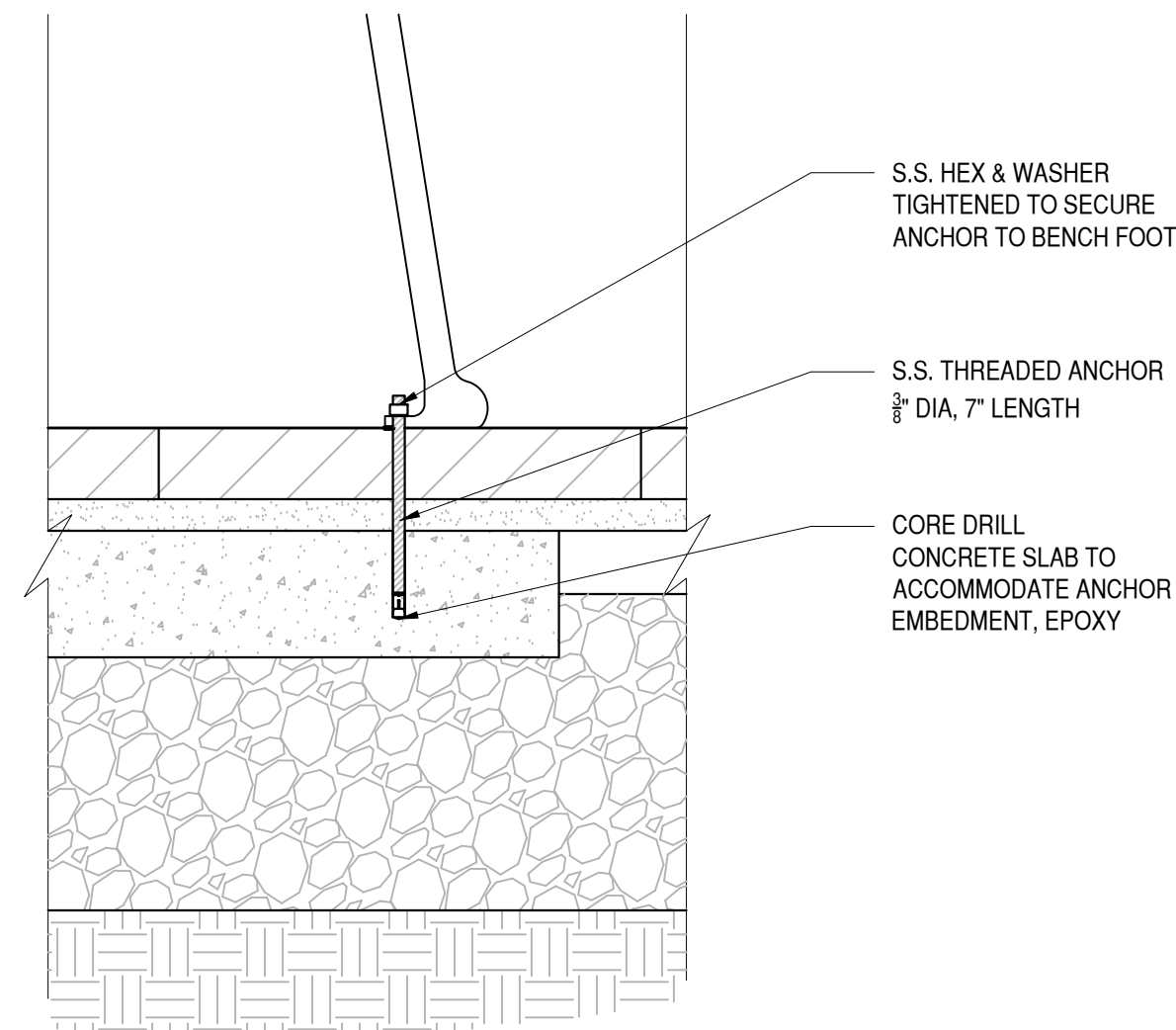


Project

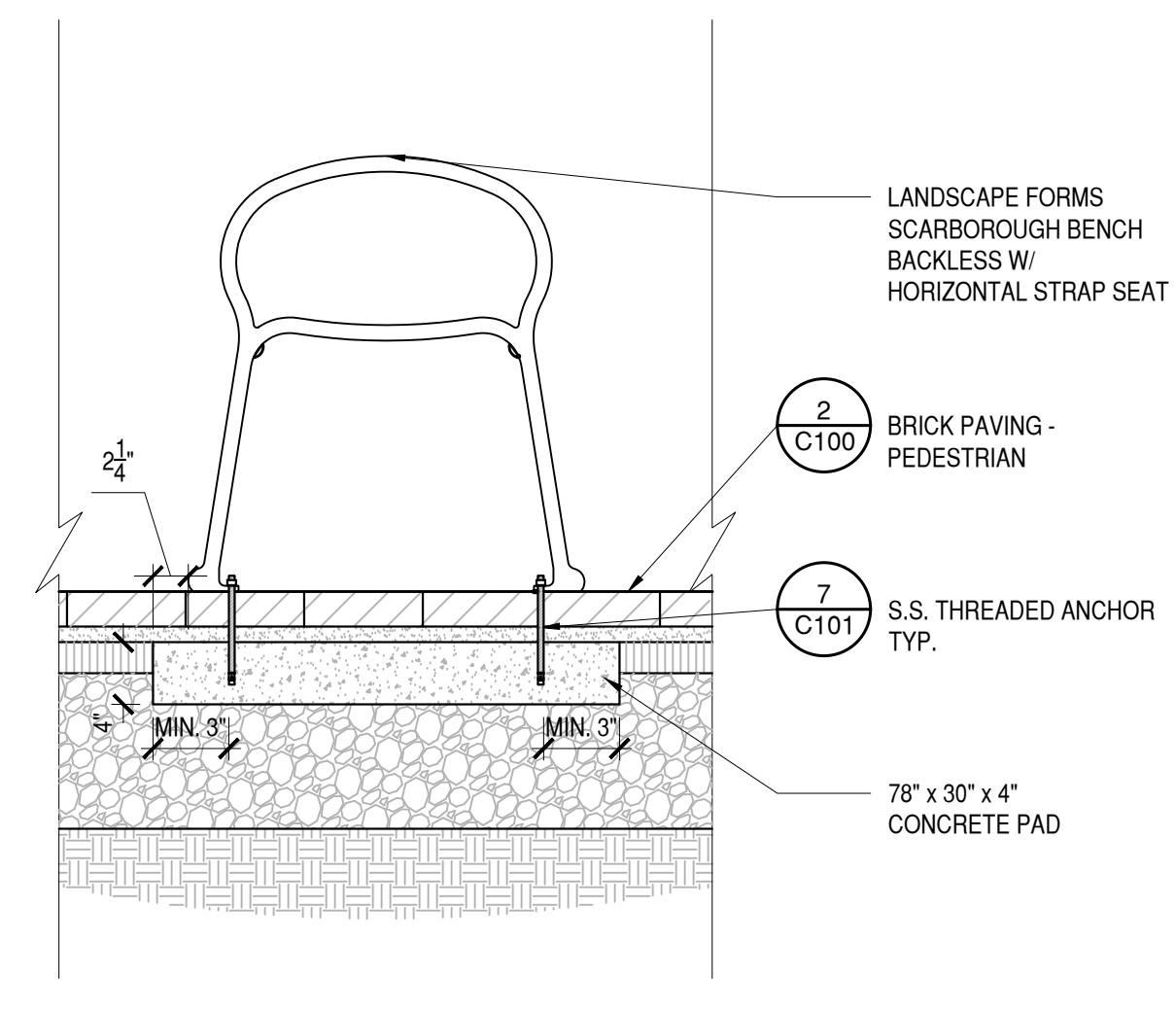
ELM & FRONT STREET RENOVATION
BATH, MAINE



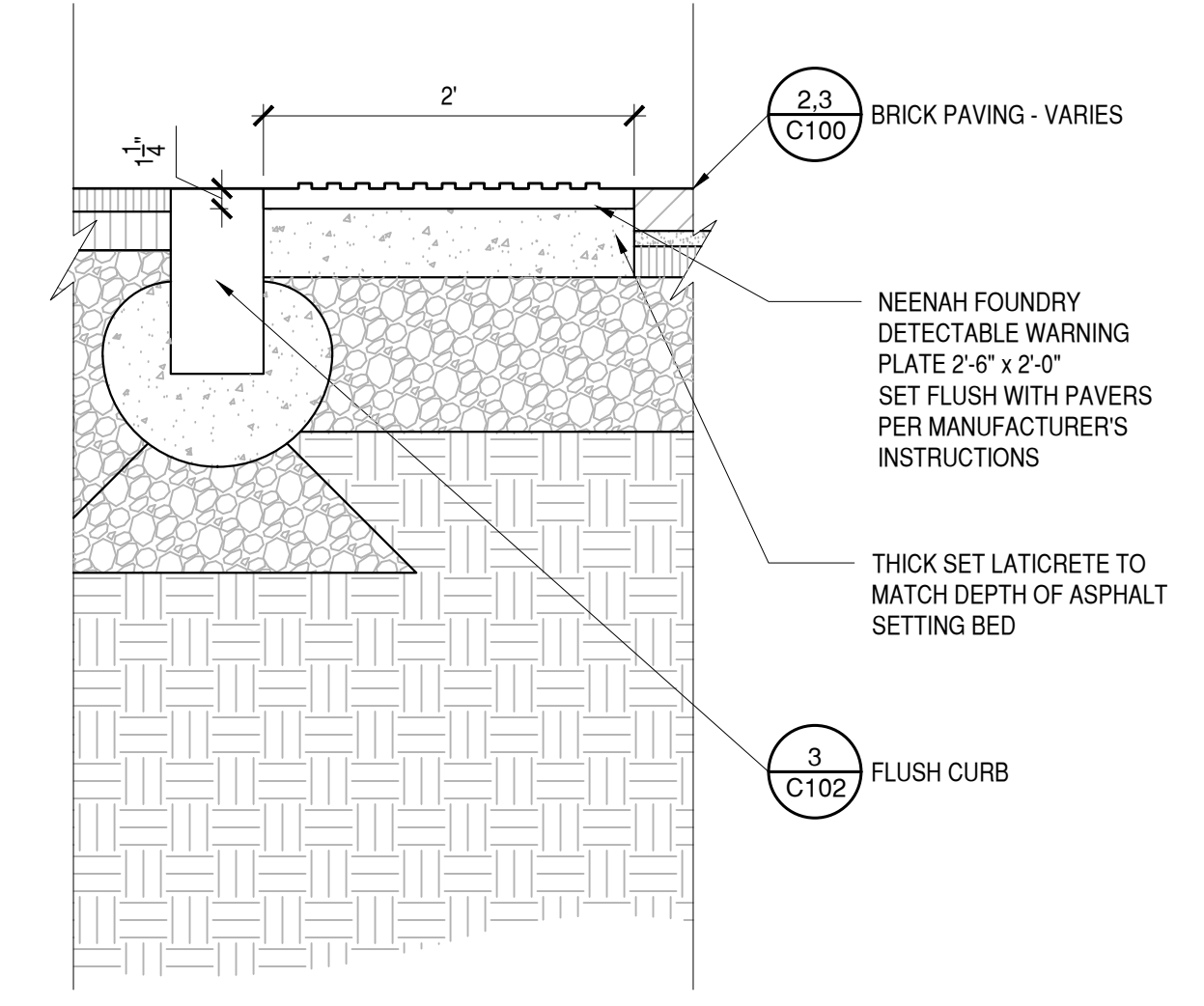
10 PLANTER RAIL
2" = 1'-0"



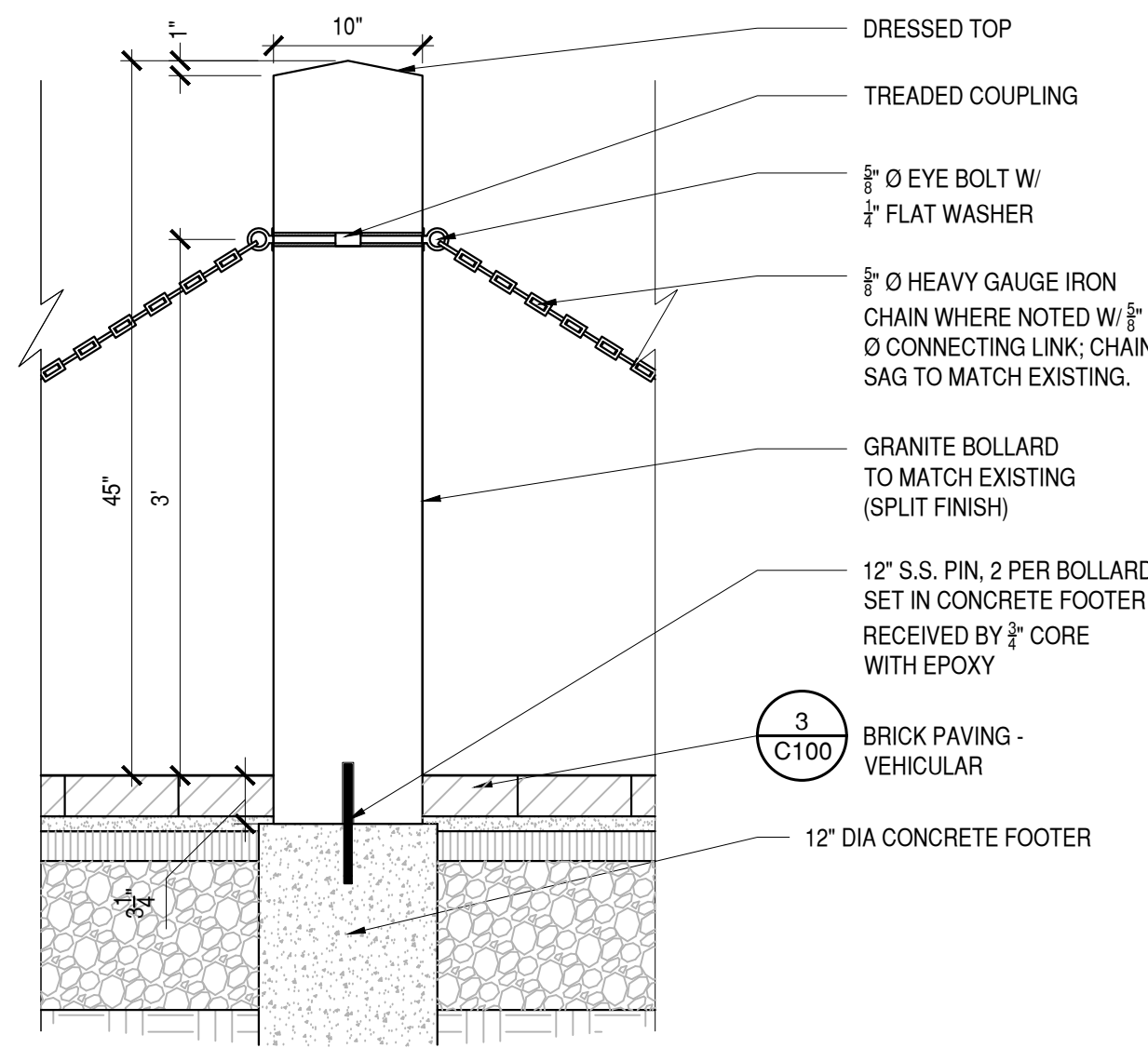
7 S.S. THREADED ANCHOR TYP.
2" = 1'-0"



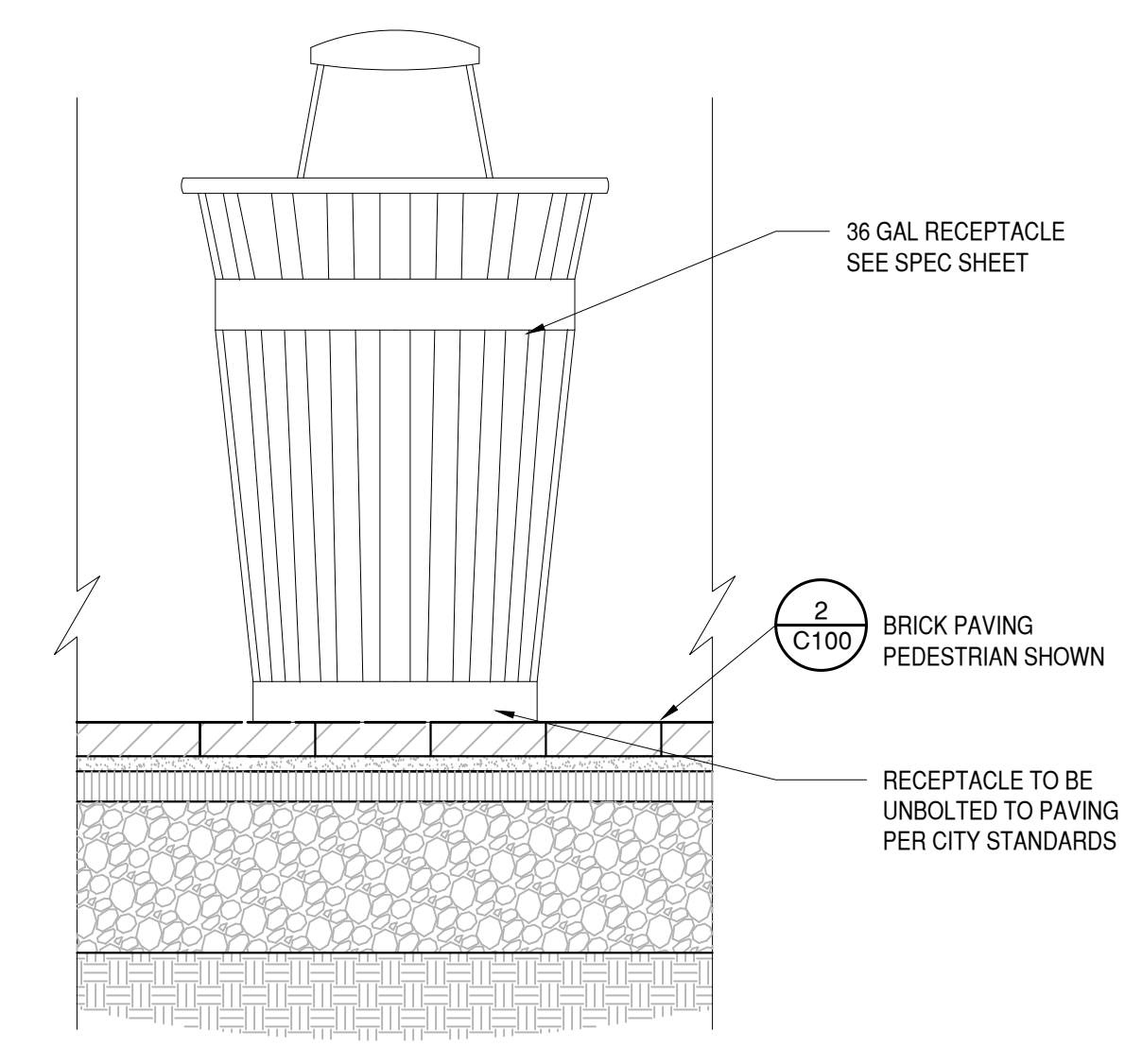
4 BENCH
1" = 1'-0"



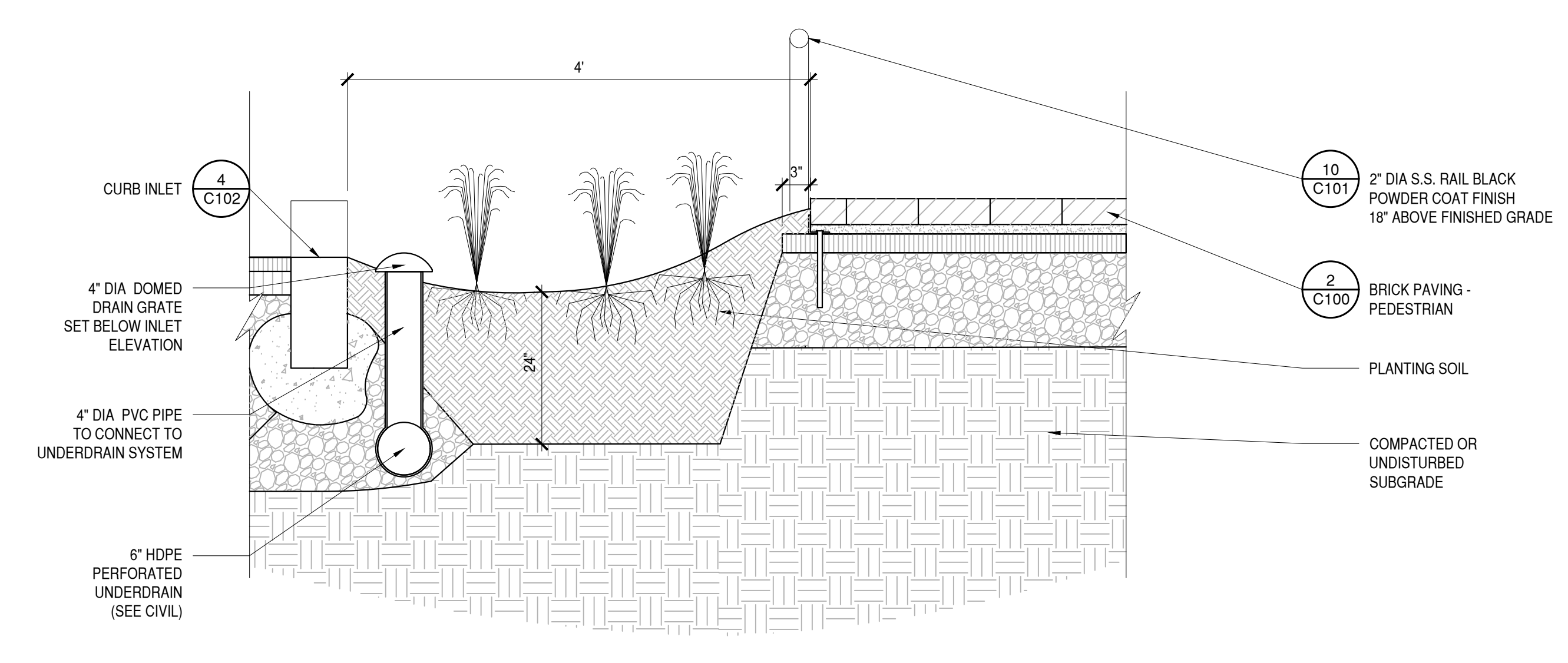
3 DETECTABLE WARNING PLATE
1" = 1'-0"



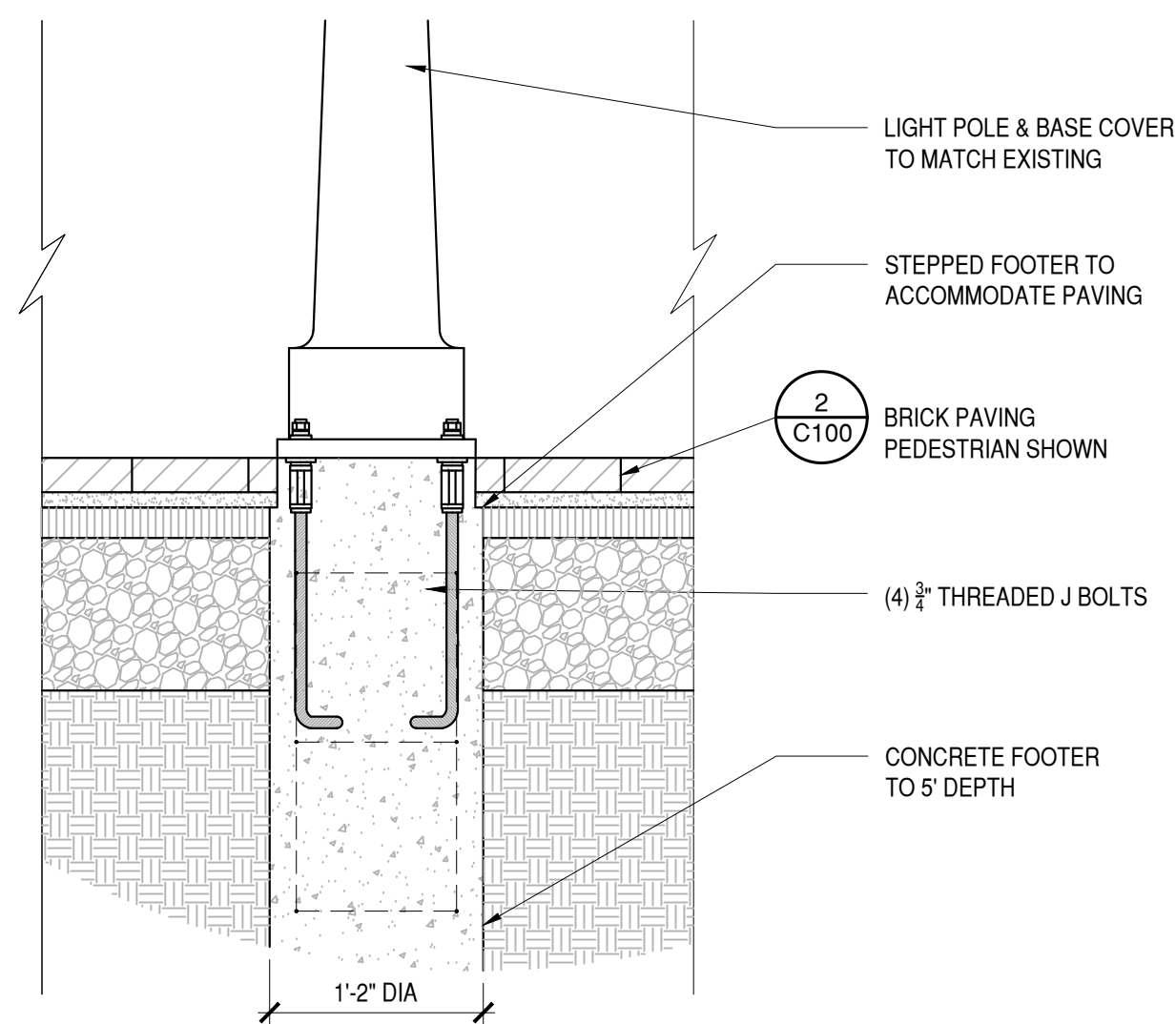
9 BOLLARD
1" = 1'-0"



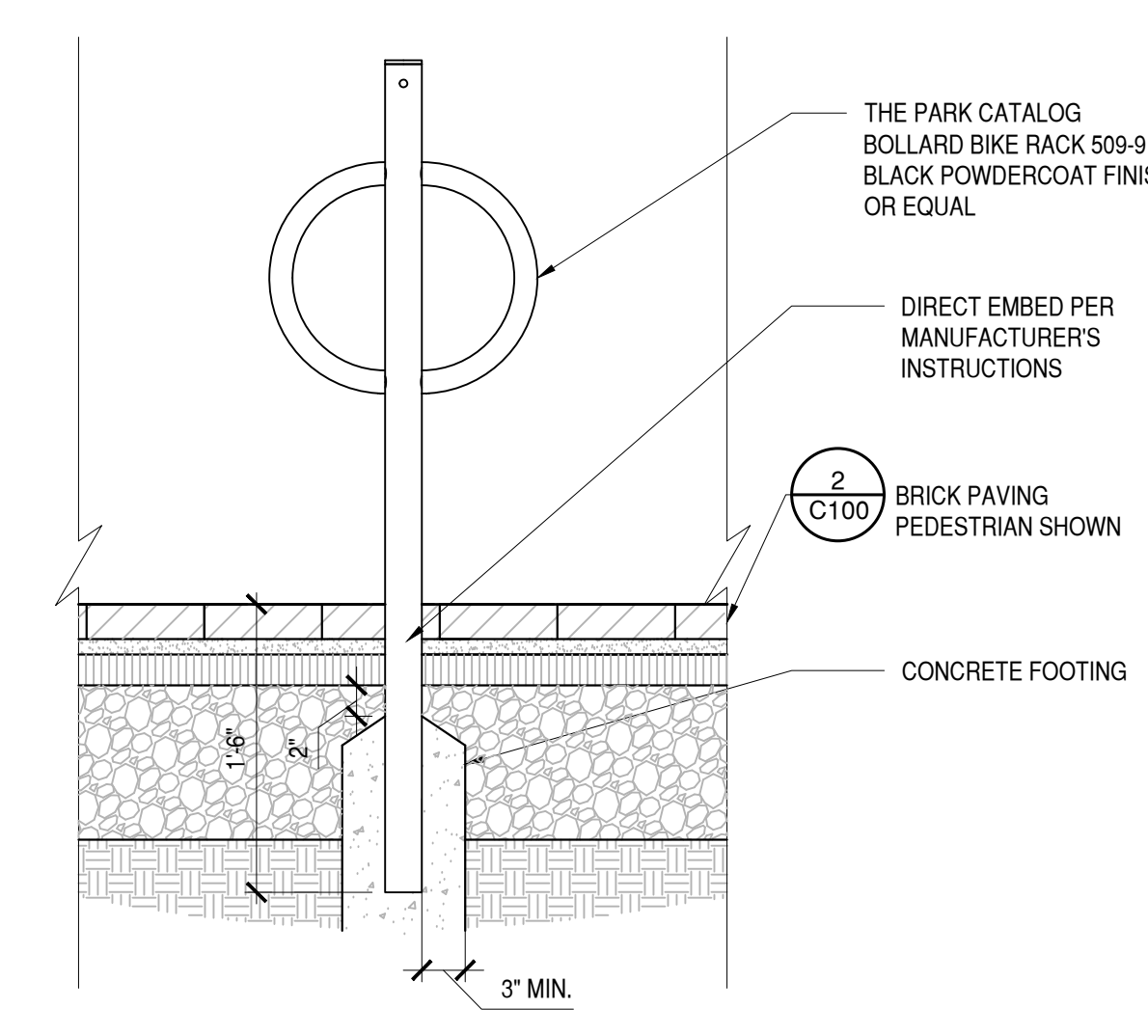
6 TRASH RECEPTACLE
1" = 1'-0"



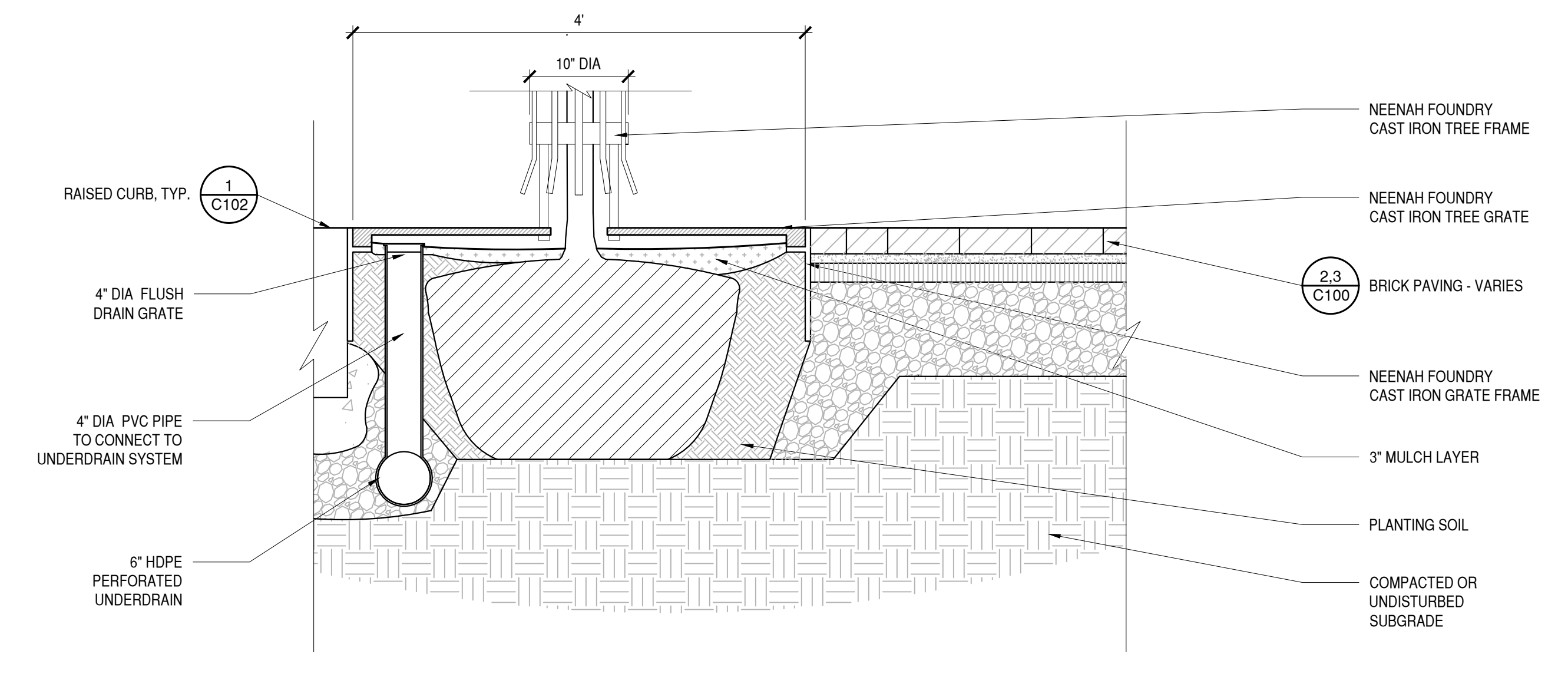
2 RAIN GARDEN
1" = 1'-0"



8 LIGHT POLE FOOTING
1" = 1'-0"



5 BIKE RACK
1" = 1'-0"



1 TREE WELL TYP.
1" = 1'-0"

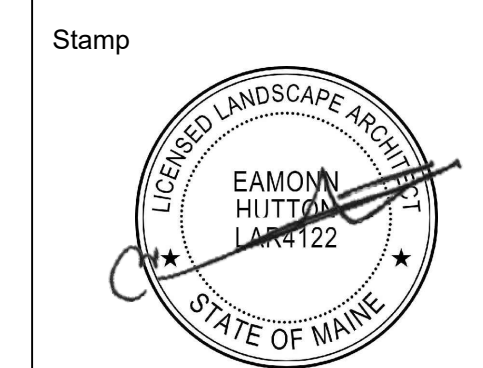
Revisions

1	JVH	100% D.D.	2023.10.06
2	JVH	75% C.D.	2024.01.05
3	JFH	100% C.D.	2024.03.15

10	7	4	3
9	6	2	
8	5	1	

CONSTRUCTION DETAILS

DRAWN: JVH
CHECKED: EH
DATE: 2024.03.15
SHEET



Project

ELM & FRONT STREET RENOVATION
BATH, MAINE

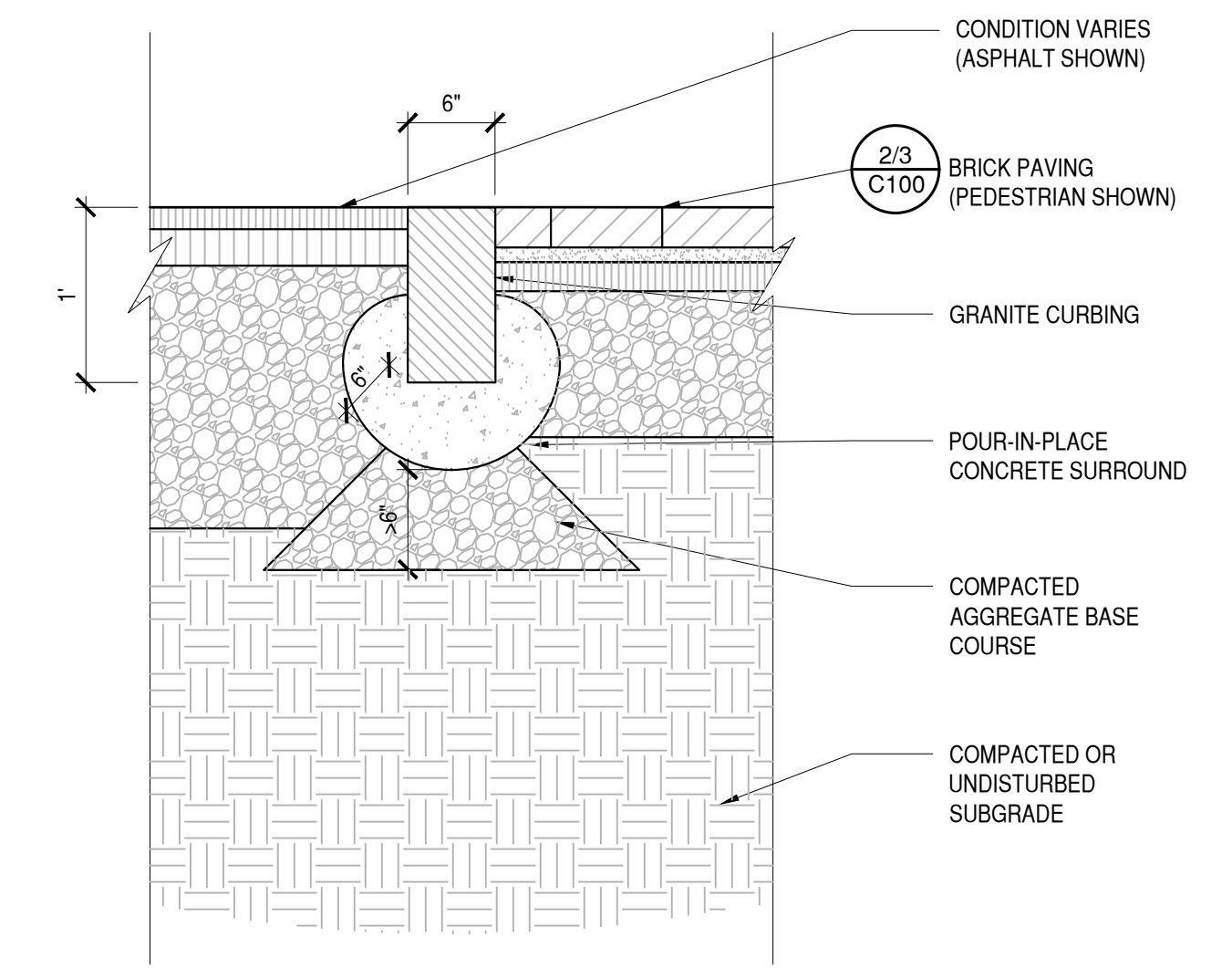
Revisions

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2	JVH	75% C.D.	2024.01.05
3	JFH	100% C.D.	2024.03.15
4	JFH	Bid Set	2024.06.04

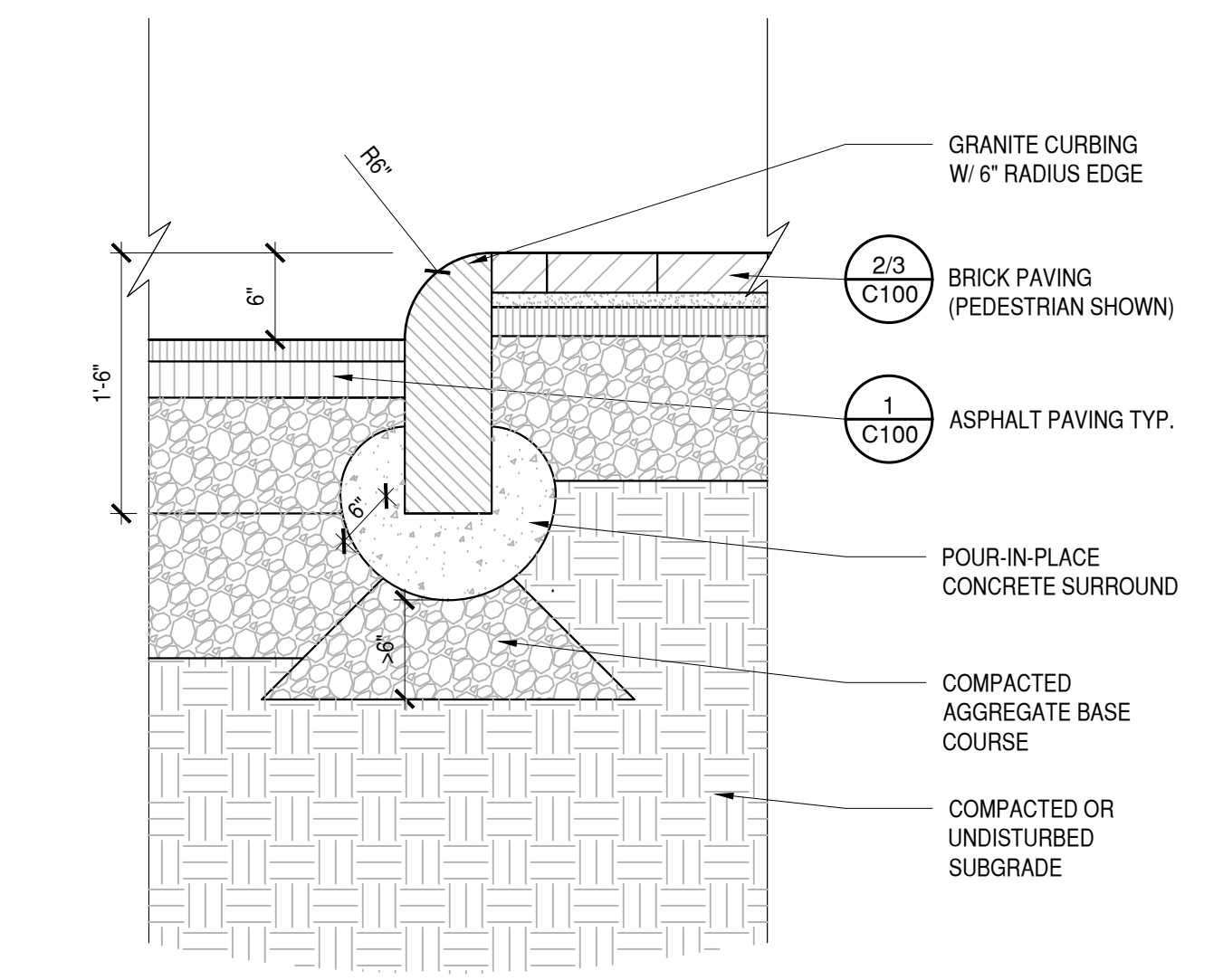
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CONSTRUCTION
DETAIL

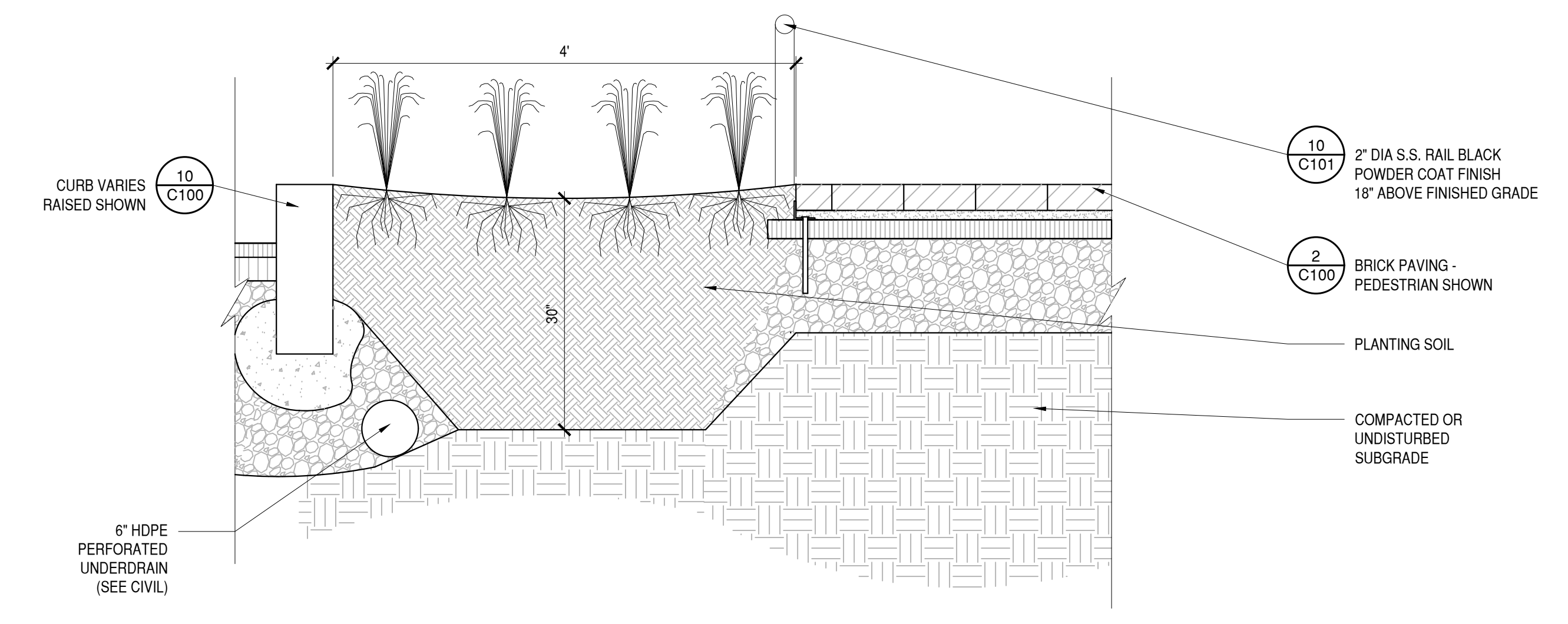
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DATE	2024.03.15
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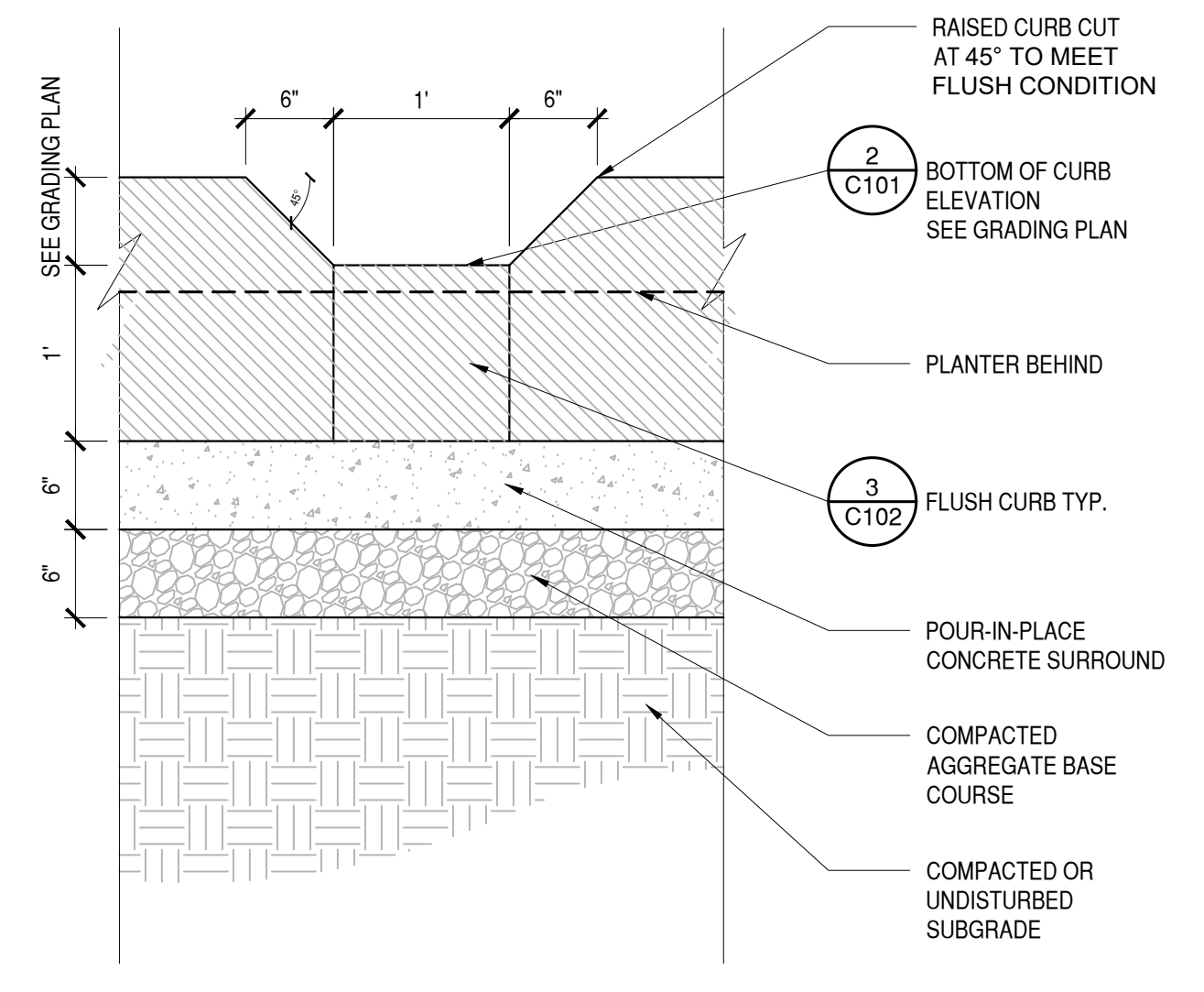
3 FLUSH CURB TYP.
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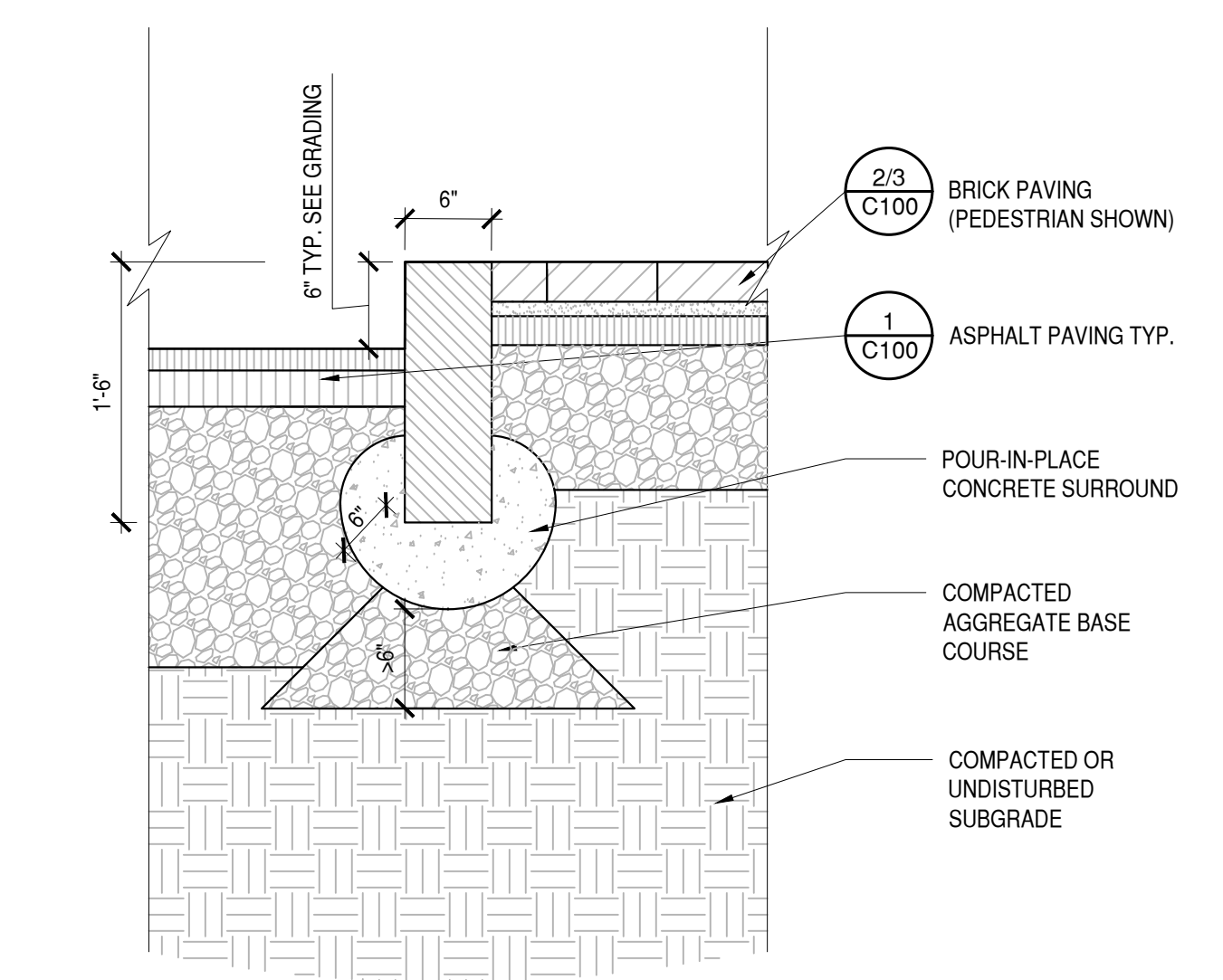
2 MOUNTABLE CURB TYP.
1" = 1'-0"



5 PLANT BED
1" = 1'-0"



4 CURB INLET TYP. - FRONT VIEW
1" = 1'-0"



1 RAISED CURB - TYP.
1" = 1'-0"