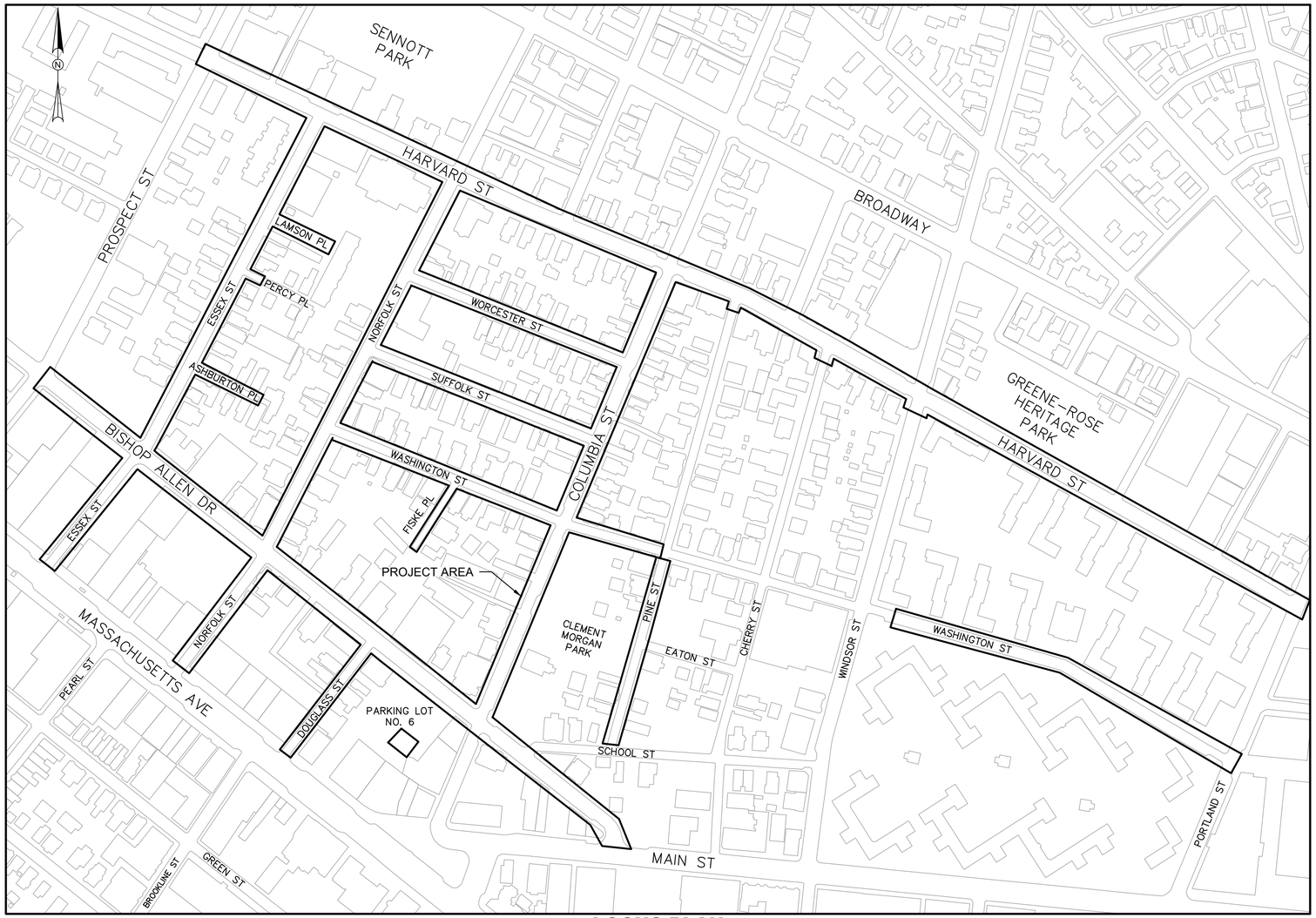
CITY OF CAMBRIDGE, MA

THE PORT INFRASTRUCTURE PHASE II PROJECT

PACKAGE 1

CONFORMED SET
APRIL 2026
FILE NO. 30724



LOCUS PLAN
SCALE: 1" = 150'

PROJECT DESIGN TEAM

KLEINFELDER
Bright People. Right Solutions.

Stantec

Bowman

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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

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Plot date: 12/17/2025 6:28:15 PM

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CONFORMED

KLEINFELDER
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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
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REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	KEA
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

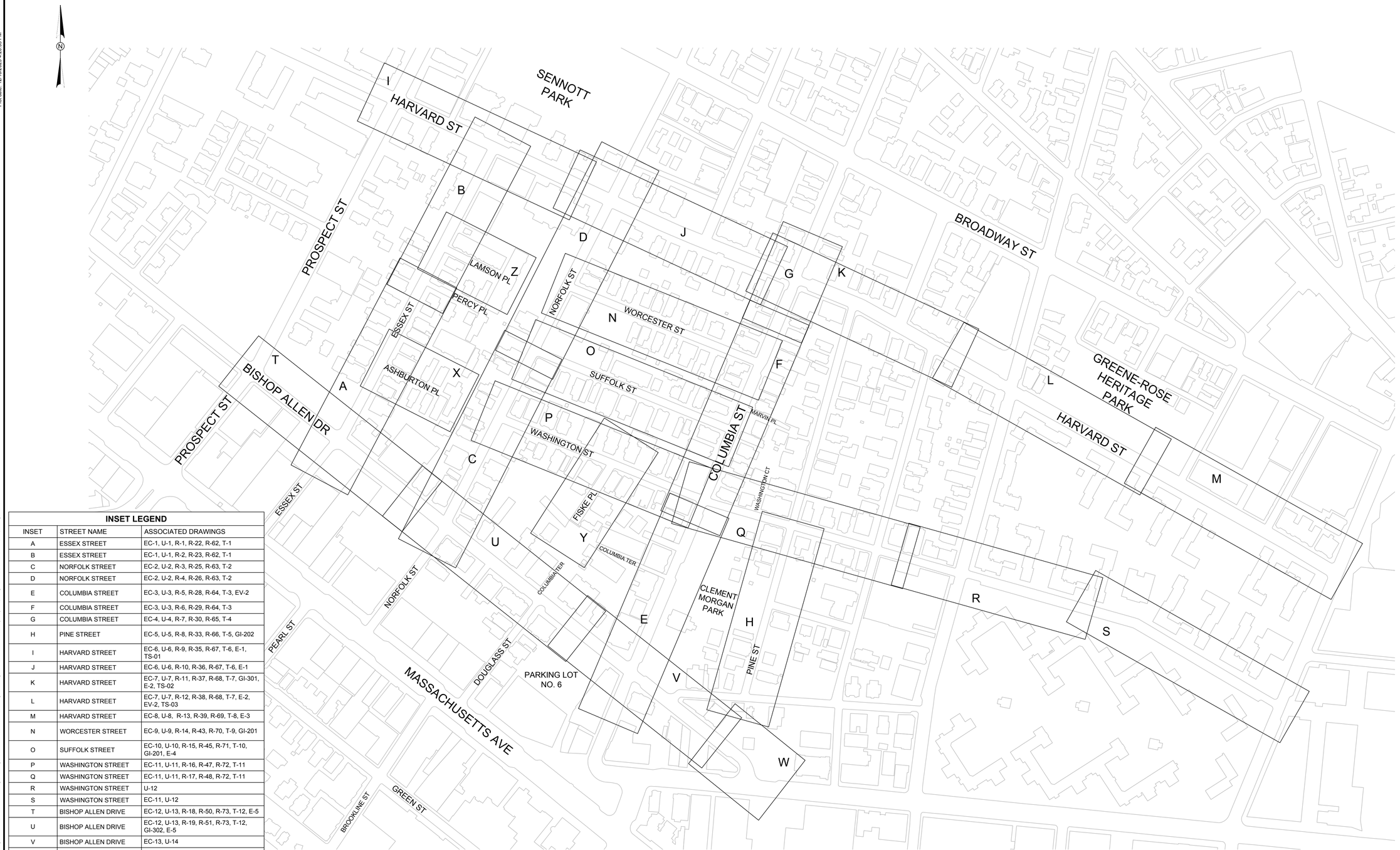
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: GENERAL
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Sheet: G-2

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\PORT KLF-GEN-Sheet Index - Package 1.dwg LAYOUT: G-2 BY: peter garland



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J	HARVARD STREET	EC-6, U-6, R-10, R-36, R-67, T-6, E-1
K	HARVARD STREET	EC-7, U-7, R-11, R-37, R-68, T-7, GI-301, E-2, TS-02
L	HARVARD STREET	EC-7, U-7, R-12, R-38, R-68, T-7, E-2, EV-2, TS-03
M	HARVARD STREET	EC-8, U-8, R-13, R-39, R-69, T-8, E-3
N	WORCESTER STREET	EC-9, U-9, R-14, R-43, R-70, T-9, GI-201
O	SUFFOLK STREET	EC-10, U-10, R-15, R-45, R-71, T-10, GI-201, E-4
P	WASHINGTON STREET	EC-11, U-11, R-16, R-47, R-72, T-11
Q	WASHINGTON STREET	EC-11, U-11, R-17, R-48, R-72, T-11
R	WASHINGTON STREET	U-12
S	WASHINGTON STREET	EC-11, U-12
T	BISHOP ALLEN DRIVE	EC-12, U-13, R-18, R-50, R-73, T-12, E-5
U	BISHOP ALLEN DRIVE	EC-12, U-13, R-19, R-51, R-73, T-12, GI-302, E-5
V	BISHOP ALLEN DRIVE	EC-13, U-14
W	BISHOP ALLEN DRIVE	EC-13, U-14
X	ASHBURTON PLACE	EC-14, U-15, R-20, R-53, R-74, T-13
Y	FISKE PLACE	EC-14, U-15, R-21, R-54
Z	LAMSON PLACE	EC-14, U-15

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 100'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	KEA
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: GENERAL KEY PLAN

Sheet: G-3

File No.: 30724

Plot date: 12/10/2025 4:20:35 PM
BY: peter garland
CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Int\Working\Drawings\General\Production Drawings\Package I\PORT KLF-Roadway Key Maps.dwg LAYOUT: G-3

Plot date: 8/8/2025 3:17:49 PM



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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

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Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: GENERAL
CIVIL KEY PLAN

Sheet: G-4

File No.: 30724

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\01_general\sheet_files\Package 1\30200_G-4 dwg|LAYOUT: G-4 BY: butts, seb

Plot date: 12/16/2025 2:08:46 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\PORT KLF-LEGEND, GENERAL NOTES AND ABBREVIATIONS.dwg LAYOUT: G-5 BY: peter garland

EXISTING LEGEND

- APPROXIMATE PROPERTY LINE
- WOOD FENCE
- METAL/WIRE FENCE
- CHAIN LINK FENCE
- HANDRAIL
- GAS LINE
- ELECTRIC LINE
- CABLE LINE
- DRAIN LINE
- COMBINED DRAIN–SEWER LINE
- SEWER LINE
- TELEPHONE LINE
- OVERHEAD WIRES
- WATER LINE
- SHRUB LINE
- INTERMEDIATE CONTOURS
- INDEX CONTOURS
- FIRE DEPARTMENT CONNECTION
- FLAG POLE
- VALVE
- UTILITY POLE WITH LIGHT
- UTILITY POLE
- GAS VALVE
- CABLE BOX
- CABLE MANHOLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- WATER MANHOLE
- WATER GATE
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- UTILITY POLE WITH LIGHT AND RISER
- CANTENARY POLE
- DECIDUOUS TREE
- CONIFER TREE
- SHRUB
- SIGN (SINGLE POSTED)
- SIGN (DOUBLE POSTED)
- TRAFFIC SIGNAL
- POST
- MONITORING WELL
- MAILBOX
- LIGHT POLE
- BOLLARD
- GUY POLE
- UTILITY POLE WITH LIGHT AND TRANSFORMER
- UTILITY POLE WITH LIGHT, RISER AND TRANSFORMER
- D–SHAPED CATCH BASIN
- NO DUMPING PLAQUE
- BIKE LANE
- CLEAN OUT
- PARKING METER
- NAIL
- GAS METER
- AREA DRAIN
- ROUND CATCH BASIN
- CATCH BASIN
- CULVERT
- DRAIN MANHOLE
- UNKNOWN MANHOLE
- SEWER MANHOLE
- ELECTRIC BOX
- ELECTRIC HANDHOLE
- ELECTRIC METER
- ELECTRIC MANHOLE

ABBREVIATIONS

ABAN	ABANDON
ABND	ABANDONED
ADA	AMERICAN W DISABILITIES ACT
AG	ABOVE GRADE
AVE	AVENUE
BG	BELOW GRADE
BGS	BELOW GROUND SURFACE
BC	BOTTOM OF CURB
BIT	BITUMINOUS PAVEMENT
BL	BASE LINE
BMK	BENCHMARK
BOMO	BOLT OVER MAIN OUTLET
BOT	BOTTOM
BP	BEGIN POINT
BW	BOTTOM OF WALL
BRW	BRICK RETAINING WALL
CB	CATCH BASIN
CC	CONCRETE CURB
CDF	CONTROLLED DENSITY FILL
CEM	CEMENT
CI	CAST IRON
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CNO	COULD NOT OPEN
CO	CLEAN OUT
CONC	CONCRETE
CRW	CONCRETE RETAINING WALL
CS	COMBINED SEWER
CSU	CONCRETE SEGMENTS (UNBOLTED)
CTE	CONNECT TO EXISTING
CTV	CABLE TELEVISION
CU	COPPER
CW	CROSSWALK
D	DEEP
DC	DROP CURB
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
DWP	DETECTABLE WARNING PANEL
DWY	DRIVEWAY
EG	EXISTING GRADE
EL	ELEVATION
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EP	END POINT
EXIST	EXISTING
FA	FIRE ALARM
FB	FIRE BOX
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FND	FOUNDATION
FP	FLAG POLE
FS	FLAG STONE
FT	FEET
GC	GRANITE CURB
GG	GAS GATE
GM	GAS METER
GRAN	GRANITE
GSI	GREEN STORMWATER INFRASTRUCTURE
GV	GATE VALVE
GW	GROUNDWATER
HH	HAND HOLE
HYD	HYDRANT
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
ID	INSIDE DIAMETER
IB	INFILTRATION BASIN
LD	LEAD
LN	LANE
LP	LIGHT POST
LSA	LANDSCAPED AREA
NO	NUMBERS
NPV	NO PIPE VISIBLE
NVO	NO VISIBLE OUTLET
OD	OUTSIDE DIAMETER
P	POST
PC	POINT OF CURVATURE
PGL	PROFILE GRADE LINE
PI	POINT ON INTERSECTION
PL	PLACE
PM	PARKING METER
PROP	PROPOSED
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
R	RIM
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RET	RETAIN
REM	REMOVE
REQ'D	REQUIRED
RL	ROOF LEADER
RCW	RAISED CROSSWALK
RWS	RETAINING WALL STONE
RWCN	RETAINING WALL CONCRETE
S	SIGN
SD	STORM DRAIN
SMH	SEWER MANHOLE
SRI	SOLAR REFLECTIVE INDEX
SRW	STONE RETAINING WALL
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET
STA	STATION
SWLK	SIDEWALK
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TELE	TELEPHONE
THRESH	THRESHOLD
TL	TRAFFIC LIGHT
TOH	TOP OF HOOD
TS	TRAFFIC SIGNAL
TW	TOP OF WATER
TYP	TYPICAL
ULP	UTILITY POLE WITH LIGHT
ULRP	UTILITY POLE WITH LIGHT AND RISER
UNK	UNKNOWN
UP	UTILITY POLE
VC	VITRIFIED CLAY
VGC	VERTICAL GRANITE CURB
W	WIDE
WC	WOOD CURB
W/	WITH
WD	WOOD
WG	WATER GATE
WL	WATER LEVEL
WMH	WATER MANHOLE
WRW	WOOD RETAINING WALL
WW	WINDOW WELL

NOTE: PROPOSED MATERIAL ITEMS ARE INDICATED IN BOLD PRINT

PROPOSED LEGEND

- DRAIN MANHOLE
- SEWER MANHOLE
- SINGLE GRATE CATCH BASIN
- DOUBLE GRATE CATCH BASIN
- SINGLE GRATED RECTANGULAR CATCH BASIN
- DOUBLE GRATED RECTANGULAR CATCH BASIN
- SINGLE GRATED DIRECT INLET CATCH BASIN
- DOUBLE GRATED DIRECT INLET CATCH BASIN
- PIPE
- CIPP LINE PIPE
- MANHOLE (IN PROFILE)
- TEST PIT
- WATER GATE
- BUTTERFLY VALVE
- COUPLING / SOLID SLEEVE
- CUT/CAP WATER MAIN
- HYDRANT
- WATER LINE
- SOIL BORING/MONITORING POINT
- LANDSCAPE AREA (NON-SHARED STREET)
- BIKE RING
- SIGN POST
- EV CHARGING STATION
- BIKE RING
- TREE
- R&R VERTICAL GRANITE CURB
- VERTICAL GRANITE CURB
- RAISED CROSSWALK
- PLANTING MEDIUM
- BRICK SIDEWALK
- LIMIT OF MILL AND OVERLAY
- DRIVEWAY (TYPICAL)
- CURB CORNER
- RAISED INTERSECTION PAVER
- LANDSCAPE AREA (SHARED STREET)
- 6" CEMENT CONCRETE DRIVEWAY (SHARED STREET)
- 4" CEMENT CONCRETE SIDEWALK (SHARED STREET)
- HIGH SRI PAVEMENT COATING (SHARED STREET)
- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL
- CEMENT CONCRETE SIDEWALK STEP OFF AREA (SHARED STREET)
- PEDESTRIAN RAMP
- DETECTABLE WARNING PANEL
- FLEXIPAVE

PROPOSED PAVEMENT MARKINGS LEGEND

- SOLID WHITE CHANNELIZING LINE/HATCH
- CW — WHITE - CROSSWALK (2' WHITE LINES, 4' O.C.) - UNLESS OTHERWISE SPECIFIED
- DYL — DASHED YELLOW LINE
- SWEL — SOLID WHITE EDGE LINE
- BIKE LANE
- DBYL — DOUBLE YELLOW LINE
- DDBYL — DOUBLE DASHED YELLOW LINE
- SL — STOP LINE
- SHARROW
- RAMP MARKING
- DWL — DOTTED WHITE LINE
- BIKE LANE MARKING
- TO PEDS YIELD — PEDESTRIAN CROSSWALK IN BIKE LANE

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: GENERAL
LEGEND, GENERAL NOTES AND ABBREVIATIONS - 1 OF 2

Sheet: G-5

File No.: 30724

Plot date: 3/31/2026 12:39:40 PM
LAYOUT: G-6 BY: peter garland
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\General\Production Drawings\PORT IILF-LEGEND, GENERAL NOTES AND ABBREVIATIONS.dwg

GENERAL NOTES

1. EXACT DEPTHS OF EXISTING PAVEMENT BASES AND SURFACE COURSES ARE NOT KNOWN AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. APPROXIMATE DEPTHS OF EXISTING PAVEMENT BASES AND SURFACE COURSES ARE INDICATED IN THE BORING LOGS. REFER TO APPENDIX OF THE SPECIFICATIONS.
2. EXISTING SANITARY SERVICES SHALL REMAIN IN SERVICE. THE OWNER OR ENGINEER WILL DETERMINE, IN EACH CASE, IF THE EXISTING SANITARY SERVICE IS IN ACCEPTABLE CONDITION OR TO BE REPLACED TO PROPERTY LINE. EXISTING SANITARY SEWER SERVICES ARE, IN GENERAL, 6 INCHES IN DIAMETER, BUT LARGER OR SMALLER SERVICES MAY BE ENCOUNTERED. IF REPLACEMENT IS NECESSARY, SANITARY SERVICES 6 INCHES IN DIAMETER AND SMALLER SHALL BE REPLACED WITH NEW 6-INCH DIAMETER PVC PIPE, AND SANITARY SEWER SERVICES LARGER THAN 6 INCHES IN DIAMETER SHALL BE REPLACED WITH AN EQUAL SIZE PVC SERVICE AS THE EXISTING.
3. DIVERSION, BYPASS, AND CONTROL OF STORM DRAIN AND DEWATERING FLOWS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR'S INTENDED DIVERSION, BYPASS, CONTROL, AND DEWATERING PLANS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW AT LEAST 7 DAYS PRIOR TO ANY EXCAVATION. WHEN PERFORMING DEWATERING, THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF SECTION 02210, SECTION 01500, SECTION 02140, AND ALL DEWATERING PERMITS.
4. THE CONTRACTOR SHALL MATCH EXISTING GRADES AND CONDITIONS WITHIN THE CONSTRUCTION AREA UNTIL FINAL RESTORATION IS COMPLETE.
5. CONTRACTOR SHALL CAP OPENINGS IN EXISTING CATCH BASINS AND MANHOLES WHEN DRAWINGS INDICATE THAT PIPES ARE TO BE REMOVED OR ABANDONED. EXISTING CATCH BASIN LATERALS WHICH ARE NOT RECONNECTED SHALL BE ABANDONED BY CAPPING BOTH ENDS. CAPS SHALL BE WATERTIGHT. ABANDONMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH SPECIFICATION SECTION 02051.
6. CONTRACTOR SHALL CUT OPENINGS IN EXISTING CATCH BASINS, MANHOLES AND IN-LINE PIPE CONNECTIONS FOR NEW PIPES WHERE PROPOSED PIPES ARE SHOWN TO CONNECT. NEW CONNECTIONS SHALL BE SEALED WATERTIGHT. ALL NEW PENETRATIONS SHALL BE CIRCULAR CORED OPENINGS. SAW CUT OR HAMMERED NON-CIRCULAR OPENINGS ARE NOT ALLOWED.
7. ALL EXTERIOR SURFACES OF CONCRETE STRUCTURES SHALL BE COATED IN ACCORDANCE WITH SPECIFICATION SECTION 07160.
8. EXISTING AND PROPOSED ROADWAY STATION LINE ELEVATIONS ARE SHOWN ON THE ROADWAY DESIGN DRAWINGS. ELEVATIONS SHOWN ON CIVIL DRAWING PROFILES ARE EXISTING STATION LINE ELEVATION ONLY. ALL STATIONING IS TO CENTER OF STRUCTURE. DISTANCES OF "LEFT" (L) AND "RIGHT" (R) ON THE PLAN REFER TO THE ORIENTATION RELATIVE TO THE STATION LINE WHEN FACING THE POSITIVE DIRECTION. THE STATIONS AS SHOWN FOR SEWERS AND DRAINS ARE APPROXIMATE. THE EXACT STATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND RECORDED ON THE RECORD DRAWINGS.
9. THE LOCATION OF EXISTING UNDERGROUND PIPES, CABLES, CONDUITS AND STRUCTURES AS SHOWN HAS BEEN COLLECTED FROM THE BEST AVAILABLE SOURCES AND THE OWNER TOGETHER WITH ITS AGENTS DOES NOT IMPLY OR GUARANTEE THE DATA AND INFORMATION IN CONNECTION WITH THE UNDERGROUND PIPES, CABLES, CONDUITS, STRUCTURES AND SUCH OTHER PARTS AS TO THEIR COMPLETENESS NOR THEIR LOCATIONS AS INDICATED. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND REQUEST MARKING LOCATION OF ALL THEIR LINES IN THE WORK AREAS. THE CONTRACTOR SHALL ASSUME THAT THERE ARE EXISTING WATER, GAS, AND OTHER UTILITY CONNECTIONS TO EACH AND EVERY BUILDING ENROUTE, WHETHER THEY APPEAR ON THE PLANS OR NOT. ANY EXPENSE AND/OR DELAY OCCASIONED BY THESE UTILITIES AND STRUCTURES OR DAMAGE THERETO, INCLUDING THOSE NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL EXPENSE TO THE OWNER. (SEE SPECIAL CONDITIONS).
10. FOUNDATIONS AND LINES FOR SERVICES, POLICE AND FIRE ALARM BOXES, STREET LIGHTS, AND TRAFFIC SIGNALS ARE NOT SHOWN ON THE PLANS. THE APPROPRIATE UTILITY COMPANIES OR AUTHORITIES SHOULD BE CONTACTED AND CONSULTED FOR LOCATIONS OF THE ABOVE.
11. THE CONTRACTOR SHALL PREMARK THE EXCAVATION AREA AND NOTIFY THE DIG SAFE CENTER (TEL. NO.1-888-DIG-SAFE) AT LEAST THREE BUSINESS DAYS PRIOR TO ANY EXCAVATION WORK. IN ADDITION, NOTIFICATION SHALL ALSO BE GIVEN TO ALL AFFECTED PRIVATE AND/OR PUBLIC UTILITIES INCLUDING THE CAMBRIDGE DPW , CAMBRIDGE WATER DEPARTMENT, AND CAMBRIDGE ELECTRICAL DEPARTMENT TO PERMIT STREET MARKING OF THEIR LINES. CAMBRIDGE TRAFFIC DEPARTMENT SHALL BE NOTIFIED 72 HOURS AHEAD OF ANY EXCAVATION WITHIN 25' OF SIGNALIZED INTERSECTIONS.
12. ALL EXISTING MANHOLE FRAMES, COVERS, CATCH BASINS FRAMES AND GRATES REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND THEN LATER BE SELECTED BY THE OWNER AND DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE OWNER. ALL REMAINING FRAMES, COVERS, AND GRATES NOT SELECTED BY AND DELIVERED TO THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. TEST PITS SHALL BE EXCAVATED AT THOSE LOCATIONS INDICATED ON THE DRAWINGS, OR DESCRIBED IN THE SPECIFICATIONS, AND WHERE ORDERED OR APPROVED BY THE OWNER OR ENGINEER. ALL TEST PIT EXCAVATIONS SHALL BE MADE TO DETERMINE THE LOCATIONS OF EXISTING UTILITIES OR STRUCTURES AND PERFORMED WELL IN ADVANCE OF CONSTRUCTION OPERATIONS SO THAT ANY CHANGES IN ALIGNMENT AND/OR GRADE OF THE PROPOSED WORK OR UTILITY LOCATIONS MAY BE DETERMINED. ALL DECISIONS RELATIVE TO UTILITY CONFLICTS AND RELOCATION REQUIREMENTS SHALL BE MADE BY THE UTILITY OWNER. AT THOSE LOCATIONS WHERE TEST PITS ARE REQUIRED TO DETERMINE THE LOCATION OF EXISTING UTILITIES, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES INVOLVED AT LEAST 72 HOURS PRIOR TO EXCAVATION OF THE TEST PITS.
14. WHERE TEMPORARY OR PERMANENT UTILITY RELOCATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY 30 DAYS IN ADVANCE OF CONSTRUCTION AND SHALL COORDINATE THE NEW WORK WITH THE UTILITY RELOCATION.
15. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF WATER MAINS WITH THE RESIDENT ENGINEER AND THE CITY WATER DEPARTMENT.
16. LOCATIONS OF NEW WATER, SANITARY, AND DRAINAGE SERVICE CONNECTIONS SHALL BE DETERMINED DURING CONSTRUCTION, IN CONSULTATION WITH PROPERTY OWNER AND CITY.
17. THE LIMITS OF BELOW GRADE EXCAVATIONS FOR NEW PIPELINES OR STRUCTURES ARE APPROXIMATE. ACTUAL HORIZONTAL AND VERTICAL LIMITS INCLUDING MEASUREMENT FOR THE NEW WORK SHALL BE APPROVED BY THE ENGINEER DURING CONSTRUCTION.
18. GEOTECHNICAL INFORMATION IN THE CONTRACT DOCUMENTS WERE TAKEN FOR THE PURPOSE OF DESIGN AND INDICATE CONDITIONS AT THE LOCATION OF THE BORING ONLY. SUBSURFACE CONDITIONS ENCOUNTERED DURING CONSTRUCTION MAY VARY FROM THE GEOTECHNICAL INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. GROUNDWATER LEVELS INDICATED IN THE BORING LOGS ARE THOSE EXISTING AT THE TIME SUBSURFACE INVESTIGATIONS WERE MADE AND DO NOT REPRESENT PERMANENT GROUNDWATER LEVELS.
19. INTERRUPTIONS OF SERVICES SHALL NOT BE PERMITTED. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AND PROVIDE ALL TEMPORARY UTILITIES AND CONNECTIONS TO AVOID INTERRUPTIONS OF WATER, SANITARY, DRAINAGE, ELECTRIC, PHONE, GAS, FIBEROPTICS, AND CABLE SERVICES.
20. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS INFORMATION AND REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS TO THE ENGINEER.
21. THE CONTRACTOR SHALL FIELD VERIFY THE FUNCTION (SEWER OR DRAIN) OF ALL EXISTING SERVICES AND SHALL THEN CONNECT EACH SERVICE TO THE APPROPRIATE SANITARY SEWER OR STORM DRAIN. VERIFICATION OF "POTENTIAL ILLICIT" LATERALS, DRAIN LATERALS AND UNKNOWN LATERALS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 02535. VERIFICATION OF SEWER LATERALS IS CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT AND IS NOT ELIGIBLE FOR SEPARATE PAYMENT.
22. THE CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENT CONTROL DEVICES, AND SHALL NOT COMMENCE CONSTRUCTION UNTIL THESE MEASURES HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER.
23. THE CONTRACTOR SHALL PROTECT ALL TRAVELED WAYS FROM DUST AND CONSTRUCTION DEBRIS AT ALL TIMES.
24. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL AREAS ADJACENT TO THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
25. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIALS, RUBBISH, EXCAVATED MATERIAL AND DEBRIS, UNLESS OTHERWISE NOTED, AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL DISPOSAL PERMITS AT NO ADDITIONAL COST TO THE OWNER.
26. THE CONTRACTOR MAY BE ASKED BY THE OWNER TO SUSPEND CONSTRUCTION OPERATIONS TEMPORARILY TO AVOID CONFLICTS WITH LARGE PUBLIC EVENTS OR LARGE STORM EVENTS. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR COSTS RELATING TO SHUTDOWNS FOR THESE REASONS.
27. THE CONTRACTOR SHALL NOT BLOCK ACCESS TO STREET AND PRIVATE PARKING IN THE VICINITY OF THE LIMITS OF CONSTRUCTION AFTER WORK HOURS AND ON WEEKENDS UNLESS OWNER HAS APPROVED OTHERWISE.
28. AREAS WITHIN THE CONTRACT ARE SUBJECT TO THE UTILITY RELATED ABATEMENT MEASURE REGULATIONS OF THE MASSACHUSETTS CONTINGENCY PLAN 310 CMR 40.00 AND SECTIONS 02010, 02080, 02095 OF THE SPECIFICATIONS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO ENVIRONMENTAL DATA (SOIL AND GROUND WATER) FROM BORINGS AND MONITORING WELLS AS REPRESENTATIVE OF SUBSURFACE CONDITIONS IN URBAN AREAS, THE ENVIRONMENTAL DATA ARE APPENDED TO THE SPECIFICATIONS.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SNOW PLOWING AND SNOW REMOVAL FROM ALL AREAS WHERE PRESENCE IS MAINTAINED INCLUDING BUT NOT LIMITED TO, UNPAVED SURFACES, PARKED EQUIPMENT AREAS OR ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR STREET SWEEPING, SNOW REMOVAL FROM SIDEWALKS, TRASH REMOVAL, AND RECYCLABLE MATERIALS FROM ALL AREAS WHERE CONSTRUCTION RESTRICTS VEHICULAR OR PEDESTRIAN ACCESS TO STREETS OR SIDEWALKS AND WHERE CONTRACTOR'S PRESENCE INTERFERES WITH MUNICIPAL TRASH REMOVAL, STREET SWEEPING, OR SNOW PLOWING AND REMOVAL.
30. THE CONTRACTOR SHALL NOT BE PERMITTED TO STARTUP OR OPERATE EQUIPMENT BEFORE OR AFTER ESTABLISHED WORKING HOURS OF 7:00 AM TO 4:00 PM, MONDAY THROUGH FRIDAY WITHOUT WRITTEN APPROVAL OF THE OWNER, UNLESS NOTED OTHERWISE.
31. EXISTING CONDITIONS ARE SHOWN SCREENED BACK ON DESIGN PLANS.
32. ALL EXISTING SEWER AND DRAIN PIPE REPLACED BY PROPOSED PIPE SHALL BE REMOVED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS TO BE ABANDONED.
33. CONTROLLED DENSITY FILL (CDF) SHALL BE REQUIRED FOR ALL UTILITY CROSSINGS WITH CLEARANCE LESS THAN 12 INCHES. CDF IS NOT TO BE PLACED ADJACENT TO GAS LINES AT ANY TIME OR WATER MAINS WITHOUT COORDINATION WITH THE CAMBRIDGE WATER DEPARTMENT.
34. STRUCTURAL REPAIRS TO EXISTING PIPES SHALL BE COMPLETED PRIOR TO INSTALLATION OF NEW DRAIN AND NEW OR REPLACEMENT LATERAL CONNECTIONS TO THE EXISTING MAIN.
35. WHERE NEW SYSTEMS ARE TO BE CONNECTED INTO EXISTING SYSTEMS, WHICH ARE REQUIRED TO BE SHUTDOWN TO MAKE THE TIE-IN THE NEW SYSTEM SHALL BE FULLY PREPARED IN ANTICIPATION OF THE TIE-IN TO MINIMIZE DOWNTIME OF THE EXISTING SYSTEM. THE NEW SYSTEM SHALL BE FULLY TESTED TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO THE TIE-IN. MEASUREMENTS SHALL BE TAKEN TO ENSURE THAT THE NEW SYSTEM IS OF THE CORRECT SIZE, LENGTH, AND ALIGNMENT TO COMPLETE THE TIE-IN.
36. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING AND TEMPORARY PAVING OR BY COVERING WITH STEEL PLATES WHEN APPROVED BY THE OWNER.
37. EXISTING UTILITY POLES THAT FALL WITHIN 5 FEET OF THE PROPOSED EDGE OF TRENCH SHALL BE SUPPORTED BY THE UTILITY OWNER DURING EXCAVATION OF THE TRENCH. CONTRACTOR SHALL COORDINATE SUPPORT AND BE RESPONSIBLE FOR COSTS AND FEES. WHERE EXISTING GAS, ELECTRIC, AND TELECOM UTILITIES CROSS THE PROPOSED TRENCH LIMITS, CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER TO SUPPORT AND BE RESPONSIBLE FOR COSTS AND FEES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING THE EXISTING UTILITY IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.
38. CONTROLLED LOW STRENGTH MATERIAL SHALL NOT BE USED AROUND WATER MAIN, GAS MAIN, WATER VALVES OR VALVE BOXES. PROVIDE ACCEPTABLE PROTECTIVE LAYER BETWEEN DUCTILE IRON AND CONTROLLED LOW STRENGTH MATERIAL OR USE A NON-FLY ASH MATERIAL APPROVED BY THE ENGINEER.
39. CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS MATCHING EXISTING PAVEMENT MARKINGS IN-KIND FOR ALL IMPACTED AREAS WITHIN 15 DAYS AFTER FINAL PAVING IS COMPLETED.
40. TROLLEY TRACKS, COBBLE AND CONCRETE ROADWAY SLAB MAY BE ENCOUNTERED WITHIN AREAS OF PROPOSED FULL DEPTH PAVEMENT. TROLLEY TRACKS, COBBLE AND CONCRETE ROADWAY SLAB SHALL BE REMOVED PER SPECIFICATION SECTION 02210 - EARTH EXCAVATION, BACKFILL, FILL AND GRADING. APPROXIMATE LOCATION OF CONCRETE SLAB IS SHOWN ON CONTRACT DRAWINGS WHERE LOCATION IS ANTICIPATED. CONCRETE SLAB, TROLLEY TRACKS, COBBLE AND OTHER MISCELLANEOUS UNCLASSIFIED EXCAVATION MAY EXIST IN LOCATIONS NOT SHOWN.
41. FOR CATCH BASINS LATERALS AND ASSOCIATED PRE-CAST STRUCTURES, SUBSTITUTIONS WITH ALTERNATE TYPES OF STRUCTURES AND PIPE TO NAVIGATE UTILITY CONFLICTS ARE ACCEPTABLE.
42. THE ELEVATIONS OF CATCH BASIN LATERALS SHOWN ARE FOR BIDDING PURPOSES AND SHALL BE ADJUSTED AS REQUIRED AND APPROVED BY THE ENGINEER TO AVOID CONFLICTING UTILITIES DURING CONSTRUCTION.

SURVEY NOTES

1. RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
2. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS) PRIOR TO EXCAVATING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING, OR REPAVING.
3. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
4. PROPERTY LINES OF PRIVATE OWNERSHIP HAVE BEEN TAKEN FROM CITY OF CAMBRIDGE ASSESSOR MAPS AND SHOULD BE CONSIDERED APPROXIMATE.
5. THE HORIZONTAL DATUM SHOWN REFERENCES THE MASSACHUSETTS STATE PLACE COORDINATE SYSTEM NAD83. ELEVATIONS SHOWN REFERENCE THE CAMBRIDGE CITY VERTICAL DATUM.
6. SURVEY BASEMAPS BASED ON ON-THE-GROUND FIELD SURVEYS PREFORMED BY WSP BETWEEN APRIL 2021 AND NOVEMBER 2022.
7. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM DIGSAFE DELINEATIONS AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTOR MUST CALL DIGSAFE.

SPECIAL NOTES FOR TREE PROTECTION

1. REFER TO "CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS - DIVISION OF URBAN FORESTRY, TREE PROTECTION DURING CONSTRUCTION" IN THE CONTRACT DOCUMENTS. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MASSACHUSETTS STATE LAW CHAPTER 87, SECTION 12.
2. A MASSACHUSETTS OR INTERNATIONAL CERTIFIED ARBORIST SHALL BE SUB-CONTRACTED BY THE CONTRACTOR TO PROVIDE A TREE PROTECTION PLAN AND PERFORM SPECIFIED WORK.
3. ALL TREES SHALL BE PRUNED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION 02100.
4. ALL TREES NOT IDENTIFIED FOR REMOVAL SHALL BE PROTECTED AGAINST CONSTRUCTION AND TRUCKING RELATED DAMAGE TO THEIR TRUNKS, ROOTS, AND LIMBS. TREE TRUNKS SHALL BE WRAPPED AND/OR BARRICADED FOR PROTECTION IF NECESSARY. TREE LIMBS SHALL BE TEMPORARILY SUPPORTED TO AVOID DAMAGE AND/OR PROFESSIONALLY PRUNED IF THEY CAN NOT BE AVOIDED. BREAKAGE OF THE LIMBS SHALL NOT BE PERMITTED. IN ADDITION TO THE "CONSTRUCTION PRUNING" SPECIFICALLY IDENTIFIED, WITHIN THE PROJECT AREA AND ALONG TRUCK ROUTE, LIMBS SHALL BE PROTECTED FROM DAMAGE OR PROFESSIONALLY PRUNED. "CONSTRUCTION PRUNING" SHALL CONSIST OF SQUARELY CUTTING LIMBS ONLY WHERE THEY CANNOT BE AVOIDED BY TRUCKS OR EQUIPMENT (RAISE PRUNING).
5. ALL TREE PROTECTION MEASURES AND OPERATIONS OF ALL ROOT PRUNING, TREE REMOVAL, AND TREE PRUNING SHALL BE SUBJECT TO REVIEW, APPROVAL OR CHANGE BY THE CITY ARBORIST.
6. AT THE OWNER'S DISCRETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY TREE DAMAGED BY CONSTRUCTION OR TRUCKING OPERATIONS. REMOVAL OF THE STUMP, AND REPLACEMENT OF THE TREE IN KIND SHALL BE AT NO ADDITIONAL COST TO THE OWNER. ADDITIONAL FINES MAY ALSO BE IMPOSED FOR DAMAGE AS PER CONTRACT SPECIFICATIONS.
7. BREAKAGE OF TREE ROOTS SHALL NOT BE PERMITTED AND ROOT PRUNING SHALL BE MINIMIZED. TREE ROOTS THAT CANNOT BE AVOIDED DURING CONSTRUCTION SHALL BE PRUNED IN ACCORDANCE WITH THE SPECIFICATIONS AND UNDER SUPERVISION OF THE CITY ARBORIST, INCLUDING ROOT TREATMENT IF REQUIRED.
8. THE CONTRACTOR SHALL COORDINATE WITH DIGSAFE PRIOR TO REMOVING ANY STUMPS. DAMAGE TO EXISTING SIDEWALKS AND UTILITIES SHALL BE REPAIRED AS SPECIFIED AFTER REMOVING STUMPS.
9. TREES AND STUMPS REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW TREES AS DIRECTED. STUMP REMOVAL SHALL BE SUFFICIENT TO ALLOW PLANTING OF A NEW TREE.

PAVEMENT MARKING AND SIGN NOTES

1. ALL EXISTING SIGNS AND SIGN POSTS SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED. ALL REINSTALLED SIGNS OR PROPOSED SIGNS SHALL BE LOCATED A LATERAL CLEARANCE OF 1' FROM THE CURB.
2. ALL PAVEMENT MARKINGS AND SIGNS SHALL MEET LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARD SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK SUCH THAT THERE WILL BE NO CONFLICTS AT ANY TIME BETWEEN TRAFFIC PATTERNS AND TRAFFIC CONTROL DEVICES (TEMPORARY OR NEW) WITHIN THE LIMITS OF THE PROJECT.
5. THE CONTRACTOR SHALL COORDINATE THE FINAL PAVEMENT MARKING CONFIGURATION WITH THE CITY PRIOR TO PLACING PAVEMENT MARKINGS.
6. THE MINIMUM HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK, SHALL BE 7', THE MINIMUM LATERAL OFFSET, MEASURED FROM THE EDGE OF THE SIGN TO THE FACE OF THE CURB, SHALL BE 1'.
7. NEW SIGNS SHALL BE FULLY INSTALLED AT THE SAME TIME OR PRIOR TO THE INSTALLATION OF NEW PAVEMENT MARKINGS. SIGNS CONFLICTING WITH THE EXISTING PAVEMENT MARKINGS SHALL BE COVERED UNTIL THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ONCE THE PAVEMENT MARKINGS ARE INSTALLED, THE SIGNS SHALL BE PROMPTLY UNCOVERED.
8. ALL PARKING REGULATION SIGNS (EXISTING OR PROPOSED) SHALL BE INSTALLED AT 45 DEGREE ANGLE RELATIVE TO THE CURB LINE UNLESS OTHERWISE NOTED IN THE PLANS. ALL OTHER TRAFFIC-RELATED SIGNS (EXISTING OR PROPOSED) SHALL BE INSTALLED AT A 90 DEGREE ANGLE TO THE CURB, UNLESS OTHERWISE NOTED IN THE PLANS.
9. STRIPED PARKING SPACES SHALL MAINTAIN A MINIMUM DISTANCE OF 4' FROM ALL DRIVEWAYS UNLESS OTHERWISE NOTED. CENTER PARKING SPACES BETWEEN DRIVEWAYS WHERE APPLICABLE.

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

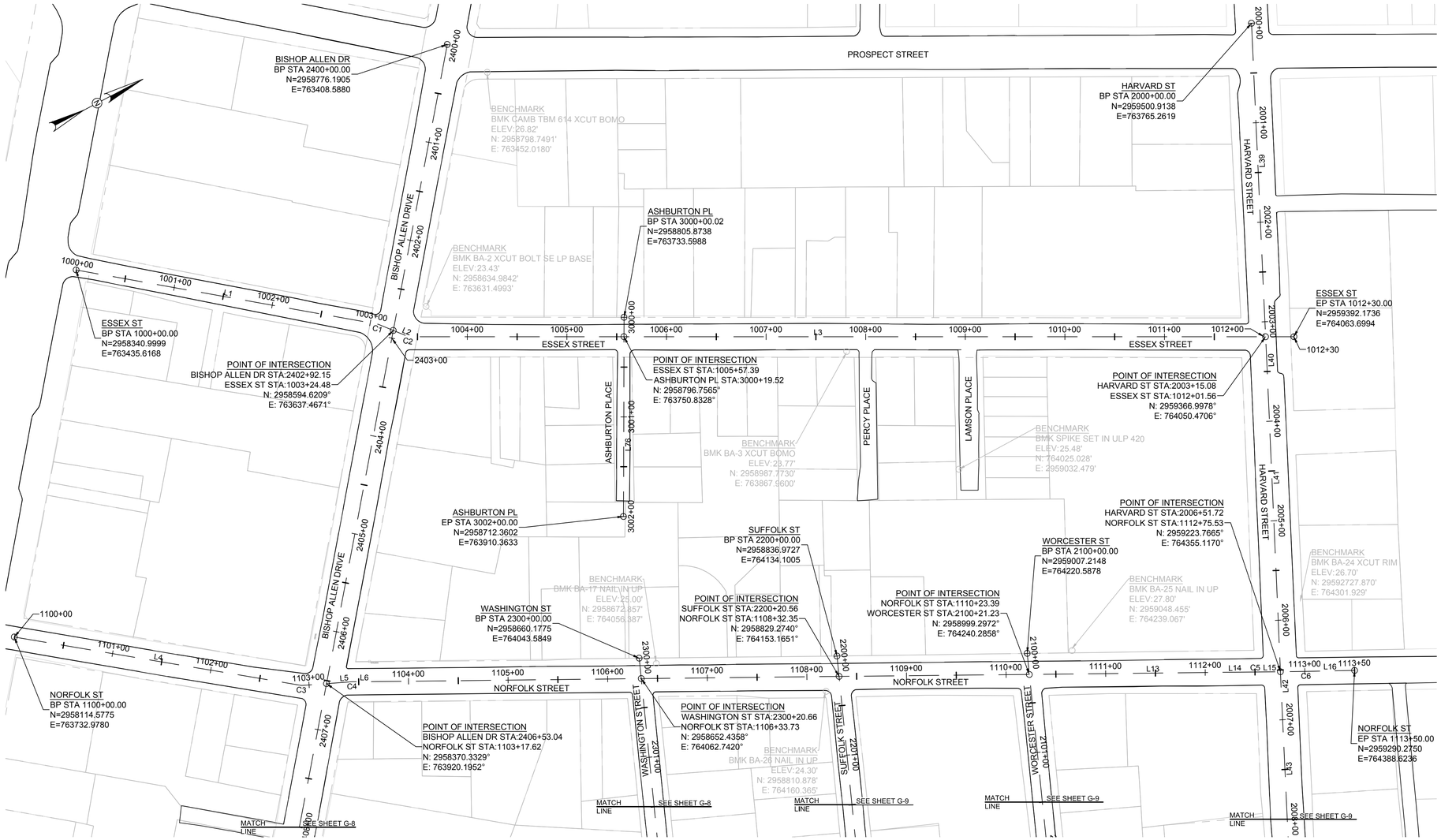
Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: GENERAL
LEGEND, GENERAL NOTES AND ABBREVIATIONS - 2 OF 2

Sheet: G-6
File No.: 30724



ESSEX ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L1	ESSEX ST 1000+00.00 N = 2958340.9999 E = 763435.6168	308.033	N37° 54' 48.51"E	ESSEX ST 1003+08.03 N = 2958584.0193 E = 763624.8940
C1	ESSEX ST 1003+08.03 N = 2958584.0193 E = 763624.8940	0.210	R = 1.000 DELTA = 012.0254	ESSEX ST 1003+08.24 N = 2958584.1701 E = 763625.0393
L2	ESSEX ST 1003+08.24 N = 2958584.1701 E = 763625.0393	32.784	N49° 56' 19.87"E	ESSEX ST 1003+41.03 N = 2958605.2701 E = 763650.1309
C2	ESSEX ST 1003+41.03 N = 2958605.2701 E = 763650.1309	0.388	R = 1.000 DELTA = 022.2188	ESSEX ST 1003+41.41 N = 2958605.5703 E = 763650.3725
L3	ESSEX ST 1003+41.41 N = 2958605.5703 E = 763650.3725	888.585	N27° 43' 12.13"E	ESSEX ST 1012+30.00 N = 2959392.1736 E = 764063.6994

NORFOLK ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L4	NORFOLK ST 1100+00.00 N = 2958114.5775 E = 763732.9780	292.330	N37° 16' 59.16"E	NORFOLK ST 1102+92.33 N = 2958347.1706 E = 763910.0581
C3	NORFOLK ST 1102+92.33 N = 2958347.1706 E = 763910.0581	0.239	R = 1.000 DELTA = 013.7109	NORFOLK ST 1102+92.57 N = 2958347.3765 E = 763910.1790
L5	NORFOLK ST 1102+92.57 N = 2958347.3765 E = 763910.1790	50.462	N23° 34' 19.97"E	NORFOLK ST 1103+43.03 N = 2958393.6278 E = 763930.3590
C4	NORFOLK ST 1103+43.03 N = 2958393.6278 E = 763930.3590	0.064	R = 1.000 DELTA = 003.6792	NORFOLK ST 1103+43.10 N = 2958393.6858 E = 763930.3865
L6	NORFOLK ST 1103+43.10 N = 2958393.6858 E = 763930.3865	25.308	N27° 15' 05.24"E	NORFOLK ST 1103+68.40 N = 2958416.1844 E = 763941.9748
L13	NORFOLK ST 1110+65.36 N = 2959036.6444 E = 764259.4227	164.505	N27° 04' 30.86"E	NORFOLK ST 1112+29.86 N = 2959183.1213 E = 764334.2989
L14	NORFOLK ST 1112+29.86 N = 2959183.1213 E = 764334.2989	20.373	N27° 08' 52.87"E	NORFOLK ST 1112+50.23 N = 2959201.2497 E = 764343.5948
C5	NORFOLK ST 1112+50.23 N = 2959201.2497 E = 764343.5948	0.001	R = 1.000 DELTA = 000.0487	NORFOLK ST 1112+50.24 N = 2959201.2504 E = 764343.5952
L15	NORFOLK ST 1112+50.24 N = 2959201.2504 E = 764343.5952	50.830	N27° 05' 57.67"E	NORFOLK ST 1113+01.07 N = 2959246.4999 E = 764366.7499
C6	NORFOLK ST 1113+01.07 N = 2959246.4999 E = 764366.7499	0.010	R = 1.000 DELTA = 000.5489	NORFOLK ST 1113+01.07 N = 2959246.5085 E = 764366.7542
L16	NORFOLK ST 1113+01.07 N = 2959246.5085 E = 764366.7542	48.926	N26° 33' 01.70"E	NORFOLK ST 1113+50.00 N = 2959290.2750 E = 764388.6236

ASHBURTON PL				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L76	ASHBURTON PL 3000+00.00 N = 2958805.8849 E = 763733.5778	200.000	S62° 07' 11.49"E	ASHBURTON PL 3002+00.00 N = 2958712.3602 E = 763910.3633

HARVARD ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L39	HARVARD ST 2000+00.00 N = 2959500.9138 E = 763765.2619	276.573	S64° 50' 02.45"E	HARVARD ST 2002+76.57 N = 2959383.3033 E = 764015.5827
L40	HARVARD ST 2002+76.57 N = 2959383.3033 E = 764015.5827	84.089	S64° 57' 00.39"E	HARVARD ST 2003+60.66 N = 2959347.6995 E = 764091.7620
L41	HARVARD ST 2003+60.66 N = 2959347.6995 E = 764091.7620	261.195	S64° 48' 14.85"E	HARVARD ST 2006+21.86 N = 2959236.5051 E = 764328.1063
L42	HARVARD ST 2006+21.86 N = 2959236.5051 E = 764328.1063	63.115	S64° 45' 03.11"E	HARVARD ST 2006+84.97 N = 2959209.5829 E = 764385.1917
L43	HARVARD ST 2006+84.97 N = 2959209.5829 E = 764385.1917	128.315	S64° 57' 56.41"E	HARVARD ST 2008+13.29 N = 2959155.2852 E = 764501.4516

GENERAL SHEET NOTES

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2. ALL ELEVATIONS ARE REFERENCED TO CAMBRIDGE CITY BASE.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL BENCHMARK LOCATIONS AND ELEVATIONS, AND NOTIFYING ENGINEER OF ANY DISCREPANCIES WITH THE INFORMATION SHOWN.

0 60 120
SCALE: 1" = 60' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 60'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	CYD
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

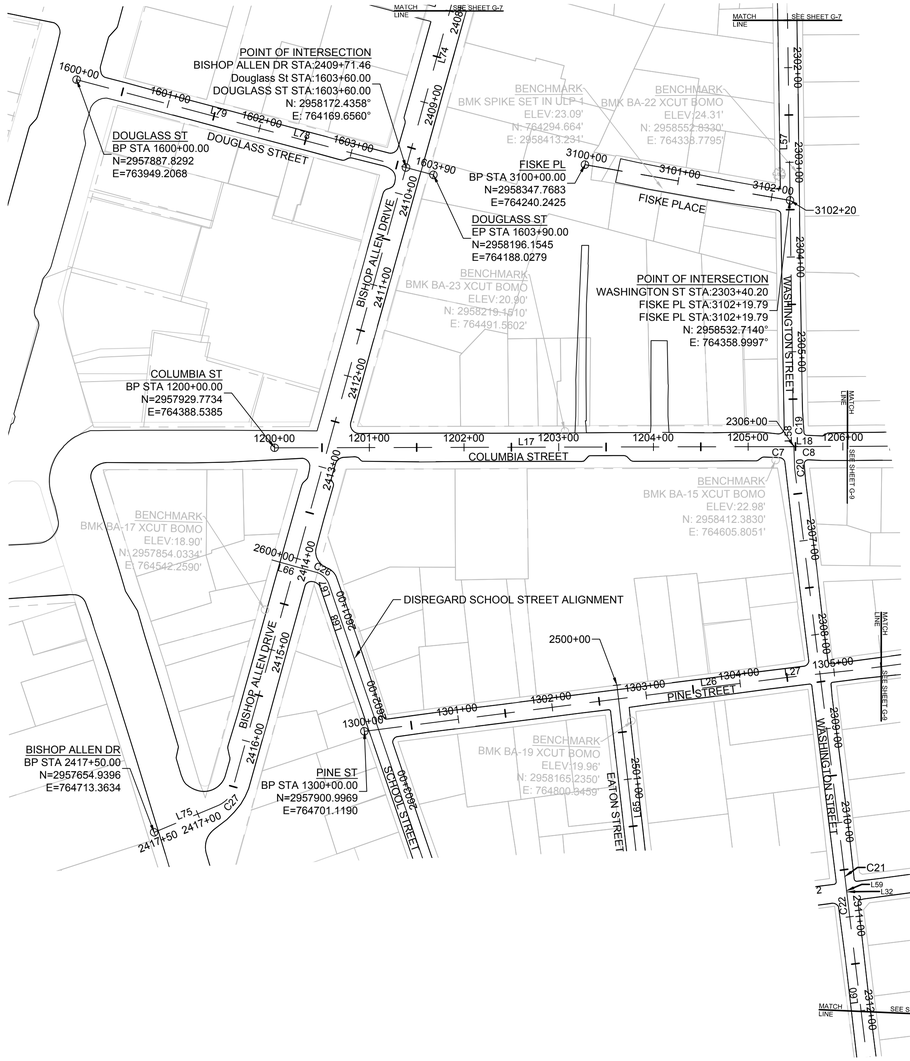
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: GENERAL CONSTRUCTION BASELINE PLAN - 1 OF 3

Sheet: G-7

File No.: 30724

Plot date: 12/17/2025 3:14:21 PM
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COLUMBIA ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L17	COLUMBIA ST 1200+00.00 N = 2957929.7734 E = 764388.5385	531.828	N22° 41' 25.59"E	COLUMBIA ST 1205+31.83 N = 2958420.4393 E = 764593.6924
C7	COLUMBIA ST 1205+31.83 N = 2958420.4393 E = 764593.6924	0.001	R = 1.000 DELTA = 000.0576	COLUMBIA ST 1205+31.83 N = 2958420.4403 E = 764593.6928
L18	COLUMBIA ST 1205+31.83 N = 2958420.4403 E = 764593.6928	32.247	N22° 44' 52.95"E	COLUMBIA ST 1205+64.08 N = 2958450.1787 E = 764606.1619
C8	COLUMBIA ST 1205+64.08 N = 2958450.1787 E = 764606.1619	0.003	R = 1.000 DELTA = 000.1858	COLUMBIA ST 1205+64.08 N = 2958450.1817 E = 764606.1632

PINE ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L26	PINE ST 1302+85.32 N = 2958175.8548 E = 764777.6765	163.843	N15° 33' 51.75"E	PINE ST 1304+49.16 N = 2958333.6900 E = 764821.6391
L27	PINE ST 1304+49.16 N = 2958333.6900 E = 764821.6391	72.347	N16° 40' 32.48"E	PINE ST 1305+21.51 N = 2958402.9943 E = 764842.3994

BISHOP ALLEN DR				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L74	BISHOP ALLEN DR 2400+00.00 N = 2958776.1905 E = 763408.5880	1653.401	S51° 34' 30.21"E	BISHOP ALLEN DR 2416+53.40 N = 2957748.6200 E = 764703.9006
C27	BISHOP ALLEN DR 2416+53.40 N = 2957748.6200 E = 764703.9006	22.504	R = 25.000 DELTA = 051.5751	BISHOP ALLEN DR 2416+75.91 N = 2957729.0344 E = 764713.3634
L75	BISHOP ALLEN DR 2416+75.91 N = 2957729.0344 E = 764713.3634	74.095	S00° 00' 00.00"E	BISHOP ALLEN DR 2417+50.00 N = 2957654.9396 E = 764713.3634

WASHINGTON ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L57	WASHINGTON ST 2300+00.00 N = 2958660.1775 E = 764043.5849	578.007	S67° 59' 44.50"E	WASHINGTON ST 2305+78.01 N = 2958443.6120 E = 764579.4873
C19	WASHINGTON ST 2305+78.01 N = 2958443.6120 E = 764579.4873	0.017	R = 1.000 DELTA = 000.9727	WASHINGTON ST 2305+78.02 N = 2958443.6058 E = 764579.5031
L58	WASHINGTON ST 2305+78.02 N = 2958443.6058 E = 764579.5031	44.809	S68° 58' 06.40"E	WASHINGTON ST 2306+22.83 N = 2958427.5247 E = 764621.3269
C20	WASHINGTON ST 2306+22.83 N = 2958427.5247 E = 764621.3269	0.091	R = 1.000 DELTA = 005.2272	WASHINGTON ST 2306+22.92 N = 2958427.4959 E = 764621.4135
C21	WASHINGTON ST 2310+57.29 N = 2958309.1935 E = 765039.3638	0.003	R = 1.000 DELTA = 000.1581	WASHINGTON ST 2310+57.30 N = 2958309.1927 E = 765039.3665
L59	WASHINGTON ST 2310+57.30 N = 2958309.1927 E = 765039.3665	30.089	S74° 02' 15.18"E	WASHINGTON ST 2310+87.39 N = 2958300.9180 E = 765068.2956
C22	WASHINGTON ST 2310+87.39 N = 2958300.9180 E = 765068.2956	0.000	R = 1.000 DELTA = 000.0254	WASHINGTON ST 2310+87.39 N = 2958300.9178 E = 765068.2960
L60	WASHINGTON ST 2310+87.39 N = 2958300.9178 E = 765068.2960	191.308	S74° 03' 45.18"E	WASHINGTON ST 2312+78.70 N = 2958248.3869 E = 765252.2508

DOUGLASS STREET				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L79	DOUGLASS STREET 1600+00.00 N = 2957887.8292 E = 763949.2068	390.000	N37° 45' 37.70"E	DOUGLASS STREET 1603+90.00 N = 2958196.1545 E = 764188.0279
L78	DOUGLASS STREET 1600+00.00 N = 2957887.8292 E = 763949.2068	390.000	N37° 45' 37.70"E	DOUGLASS STREET 1603+90.00 N = 2958196.1545 E = 764188.0279

0 80 160
SCALE: 1" = 80' SCALE IN FEET

GENERAL SHEET NOTES

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 80'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	CYD
Drawn by	CYD
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

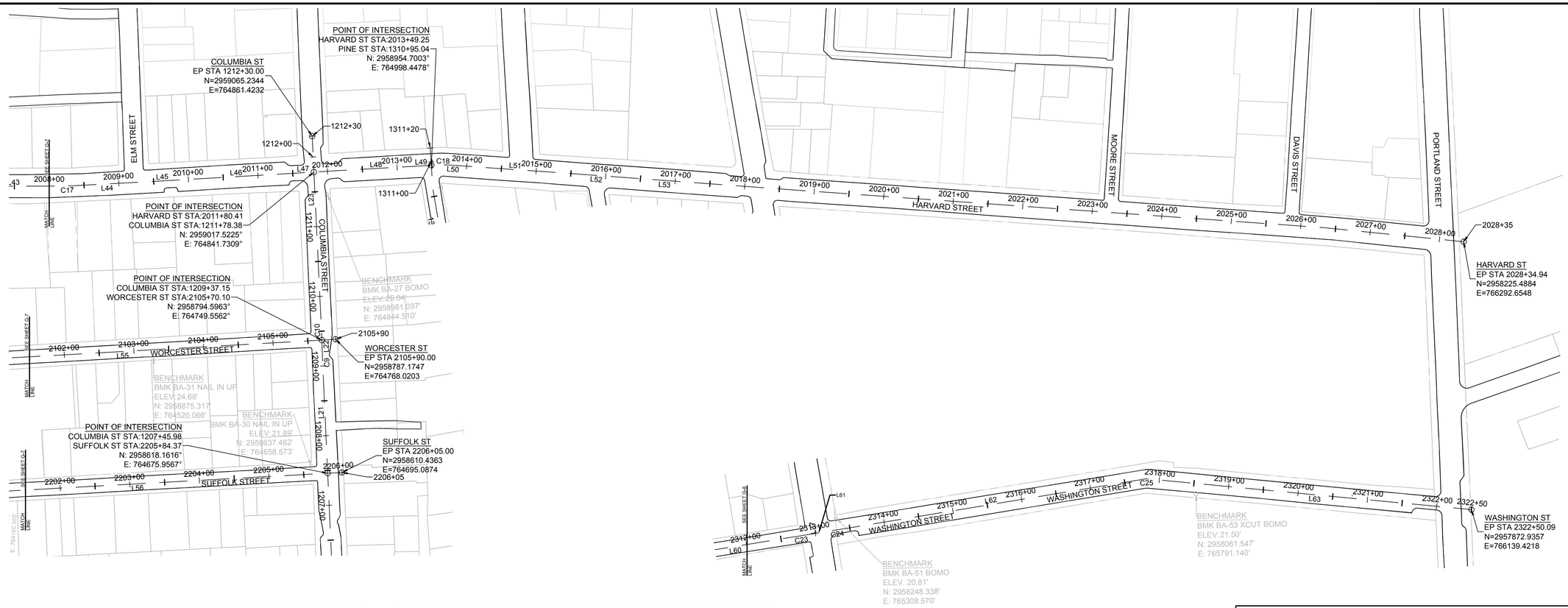
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: GENERAL
CONSTRUCTION BASELINE PLAN - 2 OF 3

Sheet: G-8

File No.: 30724

Plot date: 12/17/2025 3:14:21 PM
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HARVARD ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
C17	HARVARD ST 2008+13.29 N = 2959155.2852 E = 764501.4516	25.138	R = 500.000 DELTA = 002.8806	HARVARD ST 2008+38.42 N = 2959145.2248 E = 764524.4854
L44	HARVARD ST 2008+38.42 N = 2959145.2248 E = 764524.4854	89.434	S67° 50' 46.44"E	HARVARD ST 2009+27.86 N = 2959111.4997 E = 764607.3173
L45	HARVARD ST 2009+27.86 N = 2959111.4997 E = 764607.3173	70.110	S68° 08' 27.34"E	HARVARD ST 2009+97.97 N = 2959085.3962 E = 764672.3861
L46	HARVARD ST 2009+97.97 N = 2959085.3962 E = 764672.3861	142.247	S68° 08' 32.06"E	HARVARD ST 2011+40.22 N = 2959032.4371 E = 764804.4072
L47	HARVARD ST 2011+40.22 N = 2959032.4371 E = 764804.4072	83.465	S68° 13' 06.26"E	HARVARD ST 2012+23.68 N = 2959001.4657 E = 764881.9132

WORCESTER ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L55	WORCESTER ST 2100+00.00 N = 2959007.2148 E = 764220.5878	590.000	S68° 06' 08.55"E	WORCESTER ST 2105+90.00 N = 2958787.1747 E = 764768.0203

HARVARD ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L48	HARVARD ST 2012+23.68 N = 2959001.4657 E = 764881.9132	92.707	S68° 05' 42.61"E	HARVARD ST 2013+16.39 N = 2958966.8799 E = 764967.9273
L49	HARVARD ST 2013+16.39 N = 2958966.8799 E = 764967.9273	36.872	S68° 14' 41.96"E	HARVARD ST 2013+53.26 N = 2958953.2135 E = 765002.1736
C18	HARVARD ST 2013+53.26 N = 2958953.2135 E = 765002.1736	25.644	R = 200.000 DELTA = 007.3465	HARVARD ST 2013+78.90 N = 2958942.2099 E = 765025.3177
L50	HARVARD ST 2013+78.90 N = 2958942.2099 E = 765025.3177	3.712	S60° 53' 54.39"E	HARVARD ST 2013+82.62 N = 2958940.4047 E = 765028.5607
L51	HARVARD ST 2013+82.62 N = 2958940.4047 E = 765028.5607	172.652	S60° 48' 36.29"E	HARVARD ST 2015+55.27 N = 2958856.2013 E = 765179.2873

SUFFOLK ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L56	SUFFOLK ST 2200+00.00 N = 2958836.9727 E = 764134.1005	605.000	S68° 00' 36.98"E	SUFFOLK ST 2206+05.00 N = 2958610.4363 E = 764695.0874

HARVARD ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L52	HARVARD ST 2015+55.27 N = 2958856.2013 E = 765179.2873	63.540	S60° 36' 57.99"E	HARVARD ST 2016+18.81 N = 2958825.0248 E = 765234.6531
L53	HARVARD ST 2016+18.81 N = 2958825.0248 E = 765234.6531	162.898	S60° 36' 57.68"E	HARVARD ST 2017+81.71 N = 2958745.0970 E = 765376.5948

WASHINGTON ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
C23	WASHINGTON ST 2312+78.70 N = 2958248.3869 E = 765252.2508	0.003	R = 1.000 DELTA = 000.1500	WASHINGTON ST 2312+78.70 N = 2958248.3862 E = 765252.2533
L61	WASHINGTON ST 2312+78.70 N = 2958248.3862 E = 765252.2533	52.441	S73° 54' 45.25"E	WASHINGTON ST 2313+31.14 N = 2958233.8545 E = 765302.6412
C24	WASHINGTON ST 2313+31.14 N = 2958233.8545 E = 765302.6412	0.005	R = 1.000 DELTA = 000.3051	WASHINGTON ST 2313+31.14 N = 2958233.8530 E = 765302.6463
L62	WASHINGTON ST 2313+31.14 N = 2958233.8530 E = 765302.6463	450.311	S74° 13' 03.60"E	WASHINGTON ST 2317+81.46 N = 2958111.3757 E = 765735.9818
C25	WASHINGTON ST 2317+81.46 N = 2958111.3757 E = 765735.9818	0.258	R = 1.000 DELTA = 014.8056	WASHINGTON ST 2317+81.71 N = 2958111.2743 E = 765736.2186
L63	WASHINGTON ST 2317+81.71 N = 2958111.2743 E = 765736.2186	468.378	S59° 24' 43.61"E	WASHINGTON ST 2322+50.09 N = 2957872.9357 E = 766139.4218

COLUMBIA ST				
NUMBER	BEGINNING ALIGNMENT	LENGTH	AZIMUTH/CURVE DATA	ENDING ALIGNMENT
L21	COLUMBIA ST 1207+60.66 N = 2958631.7142 E = 764681.5876	144.004	N22° 33' 44.14"E	COLUMBIA ST 1209+04.66 N = 2958764.6970 E = 764736.8402
C9	COLUMBIA ST 1209+04.66 N = 2958764.6970 E = 764736.8402	0.008	R = 1.000 DELTA = 000.4775	COLUMBIA ST 1209+04.67 N = 2958764.7046 E = 764736.8435
L22	COLUMBIA ST 1209+04.67 N = 2958764.7046 E = 764736.8435	46.795	N23° 02' 23.16"E	COLUMBIA ST 1209+51.47 N = 2958807.7672 E = 764755.1577
C10	COLUMBIA ST 1209+51.47 N = 2958807.7672 E = 764755.1577	0.011	R = 1.000 DELTA = 000.6122	COLUMBIA ST 1209+51.48 N = 2958807.7770 E = 764755.1618
L23	COLUMBIA ST 1209+51.48 N = 2958807.7770 E = 764755.1618	278.524	N22° 25' 39.37"E	COLUMBIA ST 1212+30.00 N = 2959065.2344 E = 764861.4232

GENERAL SHEET NOTES

1. COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (2011), EPOCH 2010.00 BASED ON THE KEYNET GPS VIRTUAL REFERENCE SYSTEM (VRS).
2. ALL ELEVATIONS ARE REFERENCED TO CAMBRIDGE CITY BASE.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL BENCHMARK LOCATIONS AND ELEVATIONS, AND NOTIFYING ENGINEER OF ANY DISCREPANCIES WITH THE INFORMATION SHOWN.

0 80 160
SCALE: 1" = 80' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 80'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	CYD
Drawn by	CYD
Checked by	BMS
Approved by	KEA

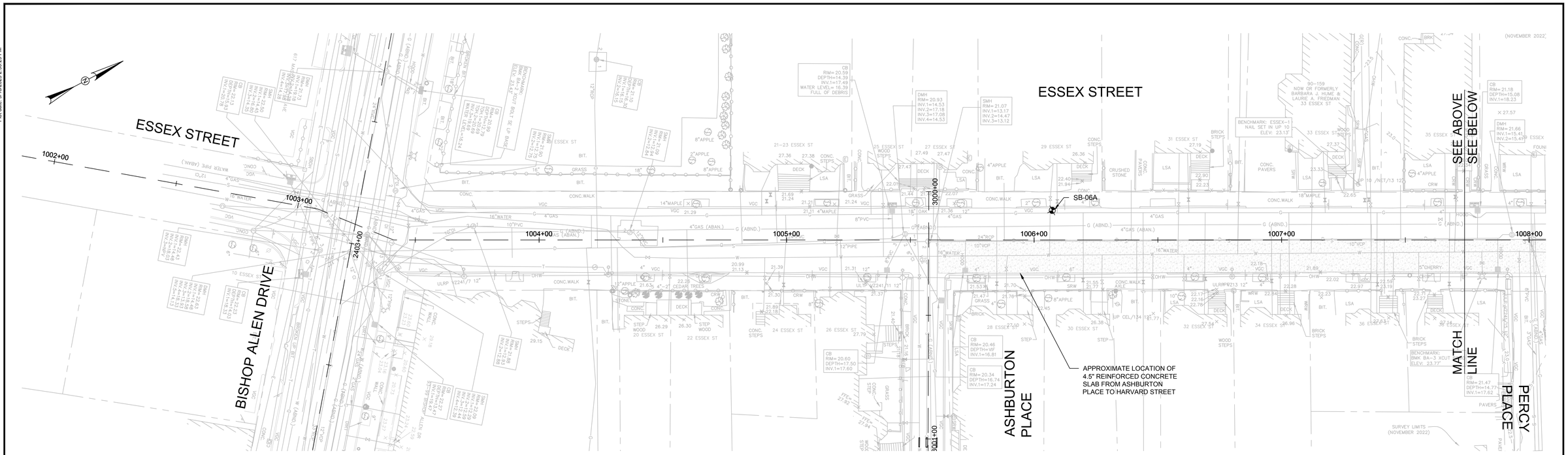
No.	Description	Date
	REVISIONS	

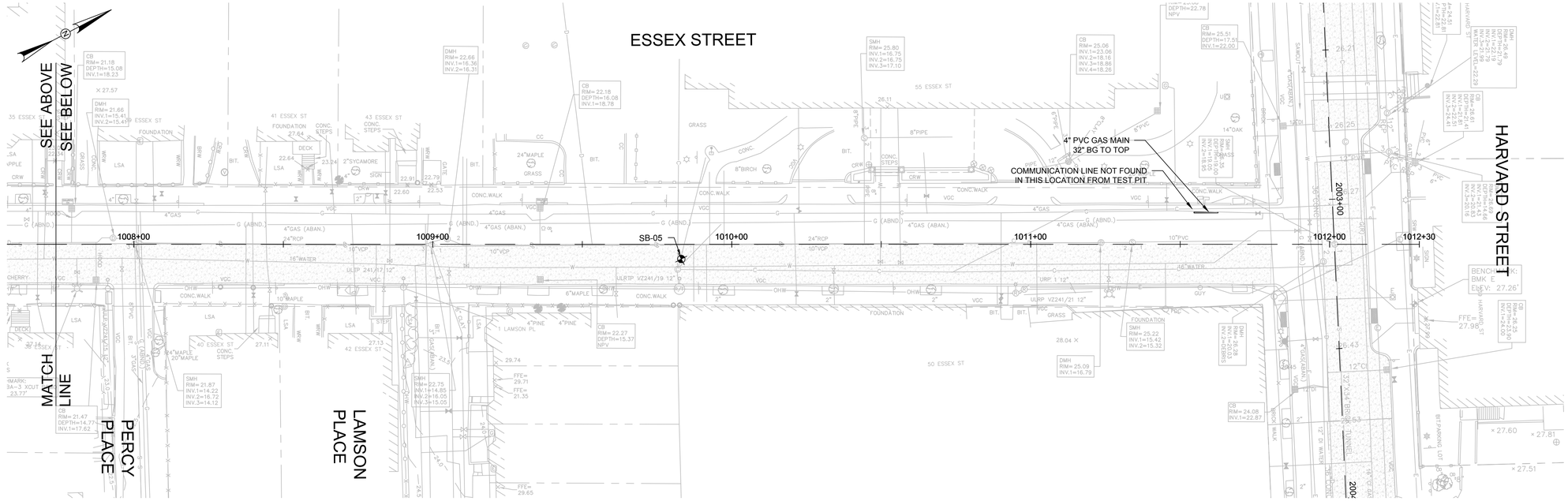
THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: GENERAL CONSTRUCTION BASELINE PLAN - 3 OF 3
Sheet: G-9
File No.: 30724

Plot date: 12/17/2025 3:14:21 PM
BY: peter garland LAYOUT: G-9
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings_General\PORT-KLF-Construction Baseline - PKG 1.dwg

Plot date: 9/16/2025 2:03:29 PM





PLAN
SCALE: 1" = 20'

SCALE: 1" = 20' — 0 20 40 60 — SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

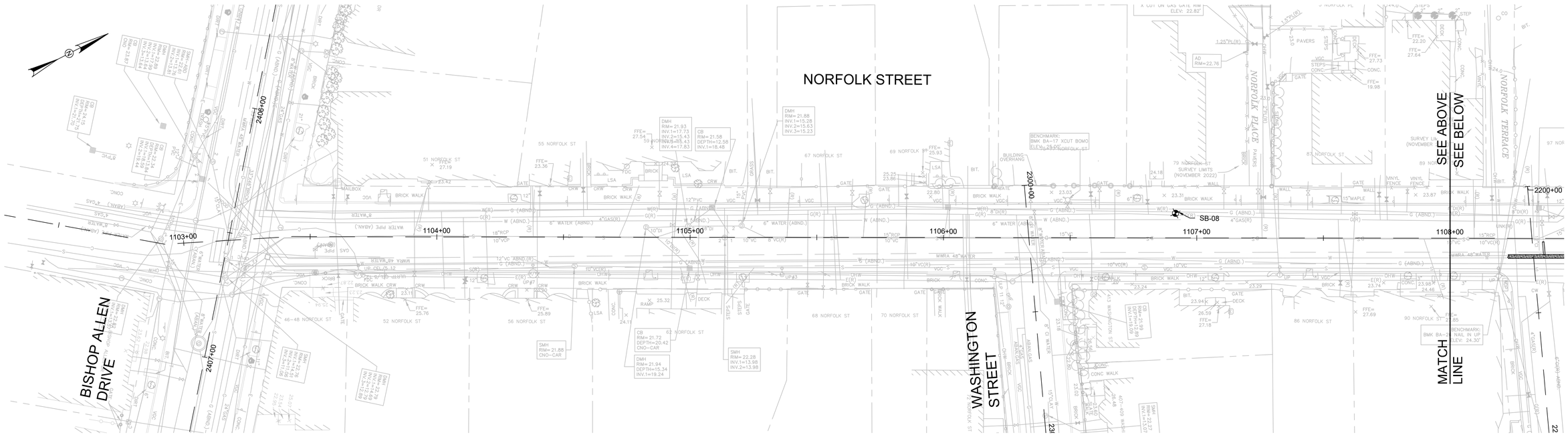
Drawing: EXISTING CONDITIONS ESSEX STREET STA. 1003+00 TO STA. 1012+30

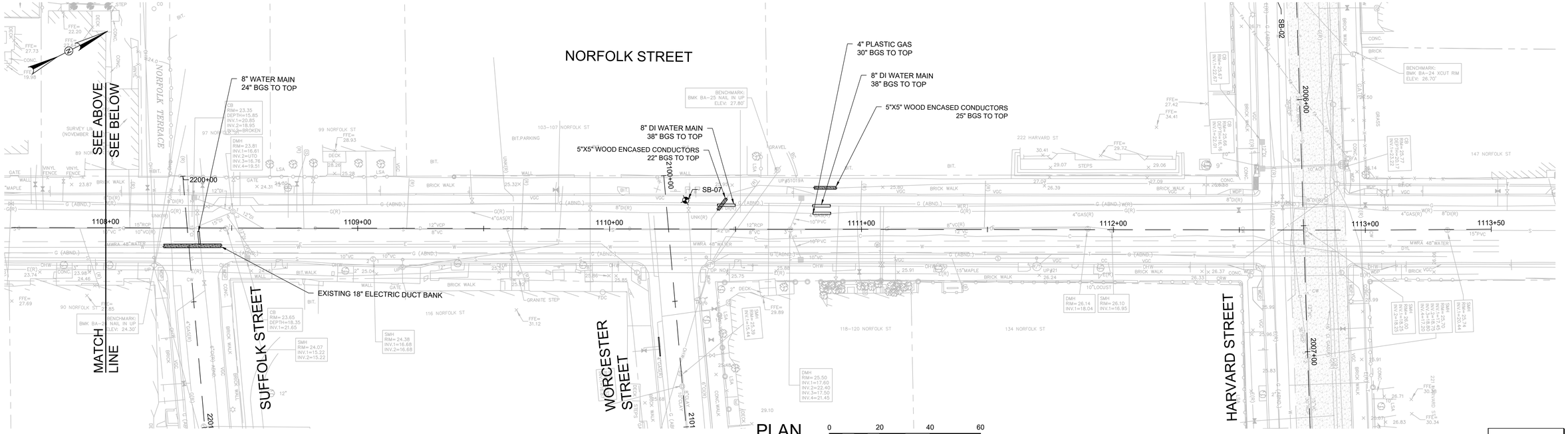
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File No.: 30724

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Plot date: 9/16/2025 4:35:38 PM





PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

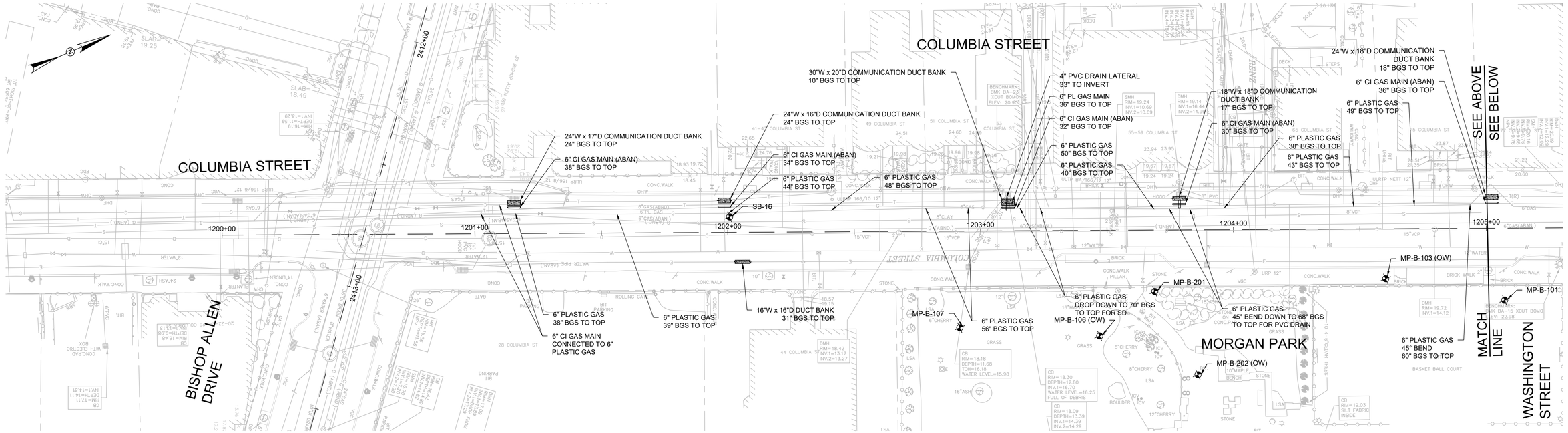
Drawing: EXISTING CONDITIONS
NORFOLK STREET STA. 1103+00 TO STA. 1113+50

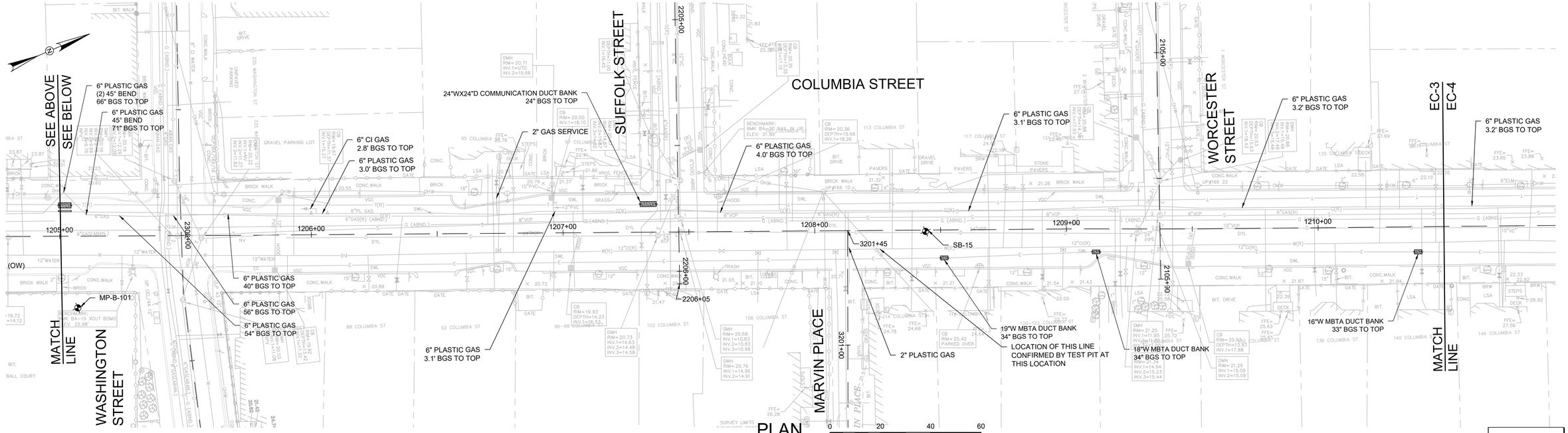
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File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\Package 1\PORT-ALF-EC-2_Norfolk Street_P1.dwg LAYOUT: EC-2 BY: peter garland

Plot date: 12/18/2025 3:04:24 PM





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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

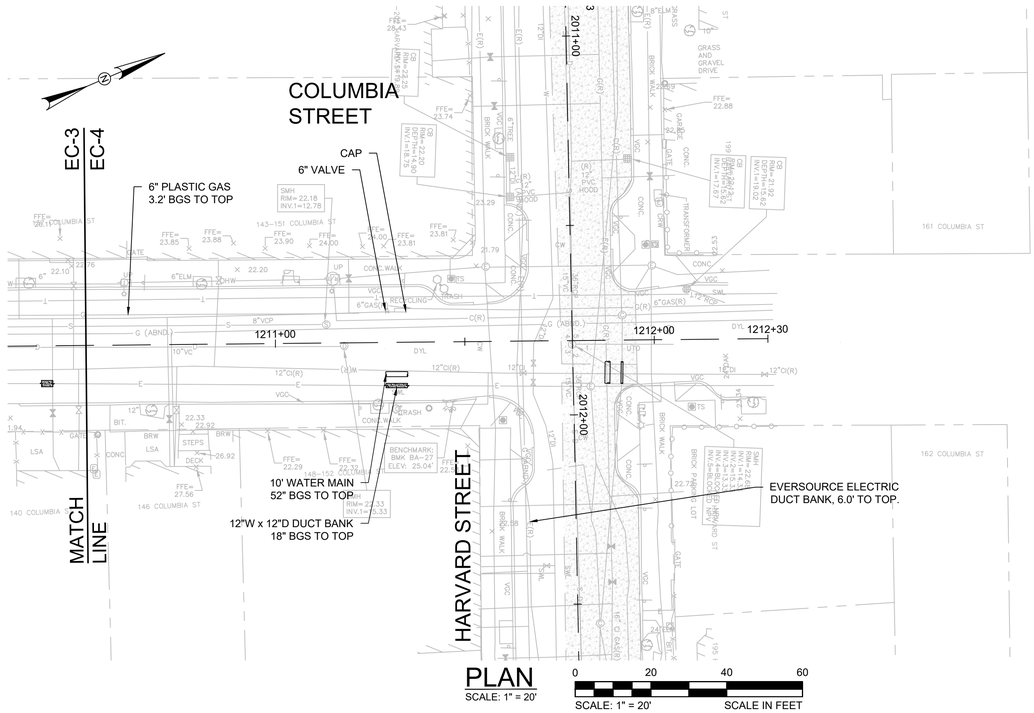
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: EXISTING CONDITIONS COLUMBIA STREET STA. 1200+00 TO STA. 1210+50

Sheet: EC-3

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\Package 1\PORT-ALF-EC-3-4_Columbia Street_P1.dwg LAYOUT: EC-3 BY: peter garland



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Scale	1" = 20'				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	KEA				
Drawn by	KEA				
Checked by	BMS	No.	Description	Date	
Approved by	BMS	REVISIONS			

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

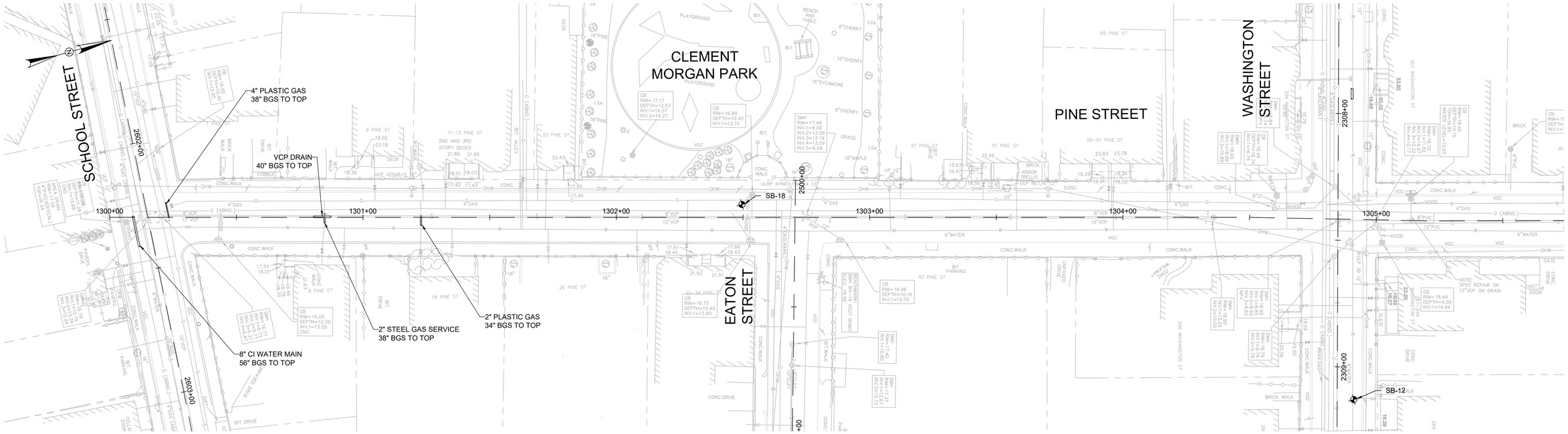
Drawing: EXISTING CONDITIONS COLUMBIA STREET STA. 1210+50 TO STA. 1212+30

Sheet: EC-4

File No.: 30724

Plot date: 12/18/2025 3:04:24 PM
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Plot date: 9/16/2025 4:38:43 PM



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: EXISTING CONDITIONS
PINE STREET STA. 1300+00 TO STA. 1305+00

Sheet: EC-5

File No.: 30724

CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\Package II\PORT-KLF-EC-5_Pine Street_P1.dwg LAYOUT: EC-5 BY: peter garland

Plot date: 12/14/2025 1:03:09 PM

HARVARD STREET

PROSPECT STREET

TEST PIT LIMITS

ELECTRIC DUCT BANK
(4 4" NON-ENCASED CONDUITS)
APPROX 18" WIDE
TOP ELEV 25.09
BOT ELEV 24.59

12" CI GAS MAIN
TOP ELEV 24.22
BOT ELEV 22.87

24" DRAIN
(54" ENCASED IN BRICK)
TOP ELEV 25.27
BOT ELEV 20.78

16" CI GAS MAIN
TOP ELEV 24.35
BOT ELEV 22.86
THROUGH 24" DRAIN

APPROXIMATE LIMITS OF
RR TRACKS, TIES, AND 9"
THICK REINFORCED
CONCRETE SLAB

36" DRAIN WITH 24" RCP
TEE CONNECTION
INV. OF 24" = 21.4

6" ABAN WATER
TOP ELEV 23.41
BOT ELEV 22.74

38"W MBTA DUCT BANK
(UNDULATED CYLINDER SHAPE)
TOP ELEV (HIGHEST POINT) 22.74
BOT ELEV 20.21

16"W x 24"D COMCAST
DUCT BANK
10" BGS TO TOP

12" GAS MAIN WITH REDUCER SECTION
OF 8" OVER THE 36" DRAIN

SB-01 (OW)

APPROXIMATE LIMITS OF 9"
THICK REINFORCED CONCRETE
SLAB UNDER 3" HMA FROM
PROSPECT STREET TO
PORTLAND STREET (TYP.)

EVERSOURCE ELECTRIC
DUCT BANK. 6.0' TO TOP

EVERSOURCE ELECTRIC
DUCT BANK. 5.0' TO TOP

ESSEX STREET

SEE ABOVE
SEE BELOW

MATCH LINE

NORFOLK STREET

SB-02

EVERSOURCE ELECTRIC
DUCT BANK. 5.0' TO TOP

TELECOM DUCT BANK. 3.0'
TO TOP. NO CONCRETE

(4) 1" PVC TELECOM CONDUITS.
SHALLOW. NO CONCRETE

28"W x 8" HIGH CONCRETE
ENCASED DUCT BANK. 1.8' TO TOP.

EVERSOURCE ELECTRIC
DUCT BANK. 5.5' TO TOP

EVERSOURCE ELECTRIC
DUCT BANK. 3.0' TO TOP
UNLESS OTHERWISE NOTED

ELM STREET

EVERSOURCE ELECTRIC
MANHOLE (TYP.)

EVERSOURCE ELECTRIC
DUCT BANK. 5.0' TO TOP

APPROXIMATE LIMITS OF 9"
THICK REINFORCED CONCRETE
SLAB UNDER 3" HMA FROM
PROSPECT STREET TO
PORTLAND STREET (TYP.)

SB-03

EC-6 EC-7

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\Package 1\PORT-KLF-EC-6-7-2_Harvard Street_P1.dwg LAYOUT: EC-6 BY: peter garland

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

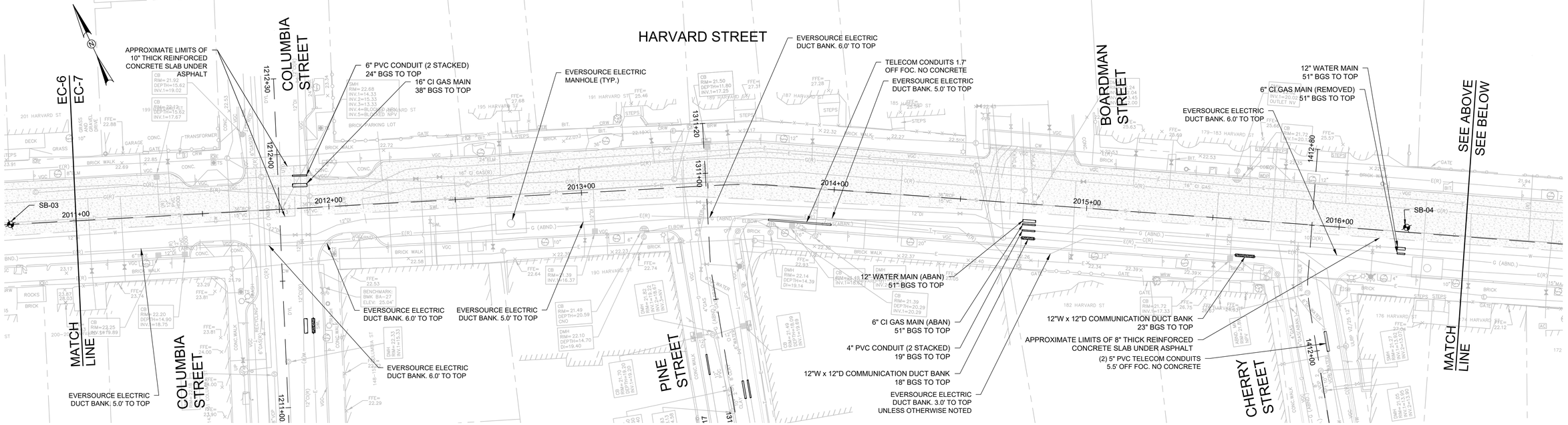
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

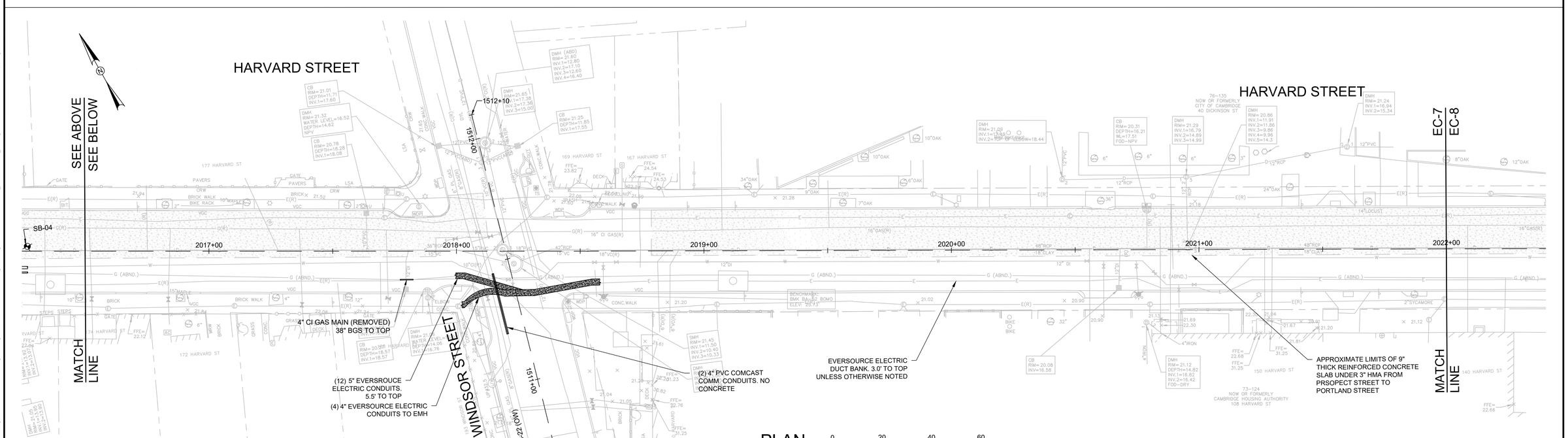
Drawing: EXISTING CONDITIONS
HARVARD STREET STA. 2000+00 TO STA. 2011+00

Sheet: EC-6

File No.: 30724

Plot date - 12/14/2025 1:03:09 PM





PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

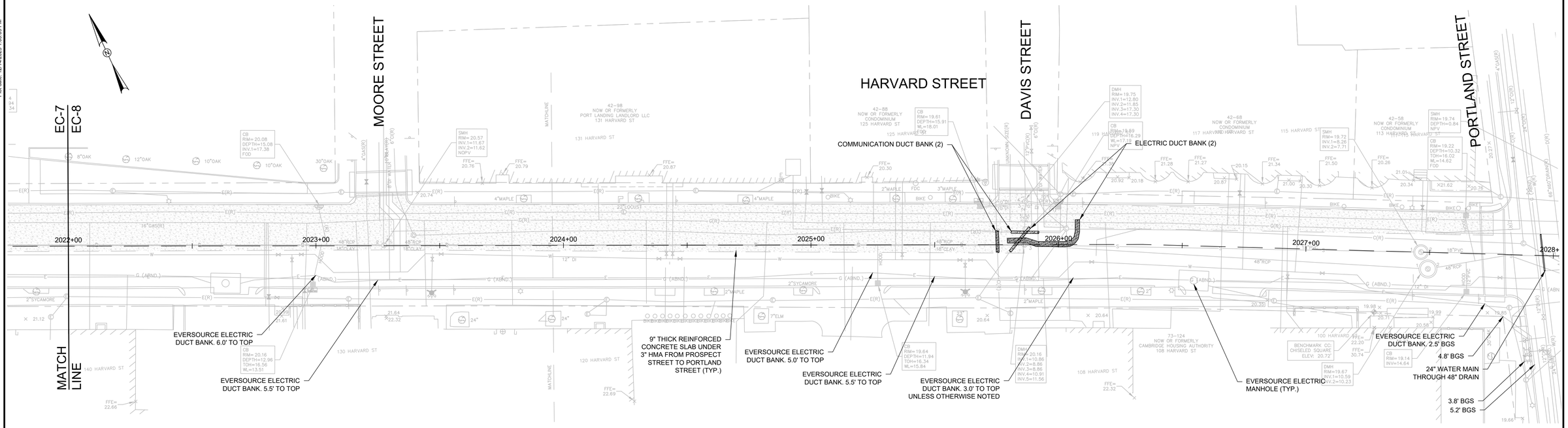
Drawing: EXISTING CONDITIONS HARVARD STREET STA. 2011+00 TO STA. 2022+00

Sheet: EC-7

File No.: 30724

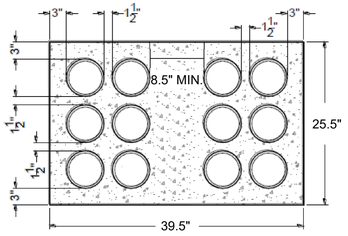
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Plot date: 12/14/2025 1:03:09 PM



PLAN
SCALE: 1" = 20'

0 20 40
SCALE: 1" = 20' SCALE IN FEET



EVERSOURCE ELECTRIC DUCT BANK SECTION
SCALE: N.T.S.

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

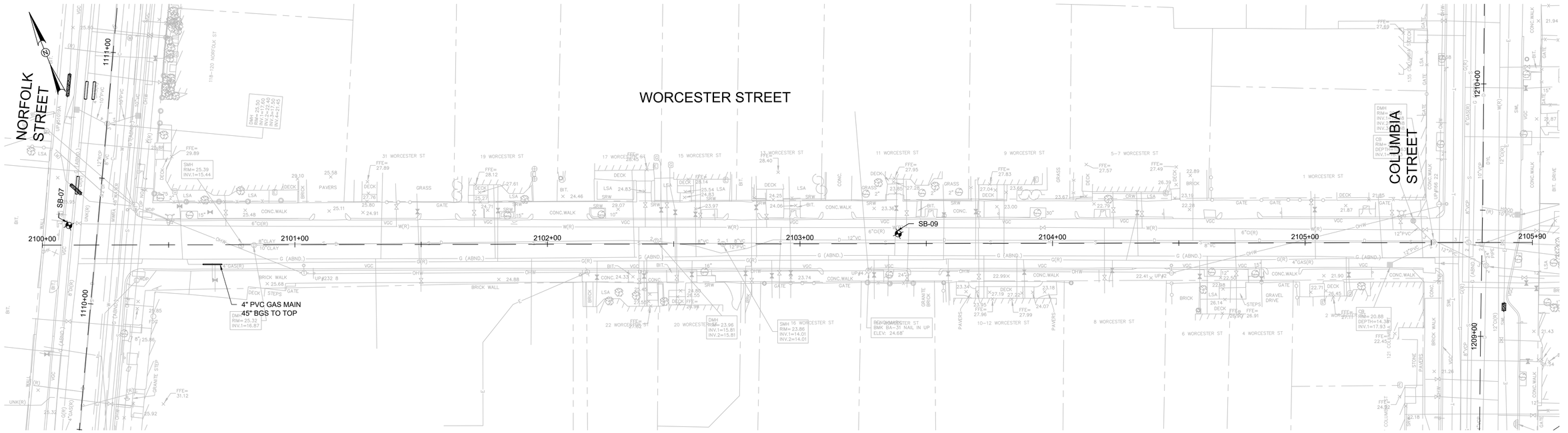
Drawing: EXISTING CONDITIONS HARVARD STREET STA. 2022+00 TO STA. 2028+00

Sheet: EC-8

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\Package 1\PORT-KLF-EC-8-7-8_Harvard Street_P1.dwg LAYOUT: EC-8 BY: peter garland

Plot date: 9/16/2025 2:00:51 PM



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20'
SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
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No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

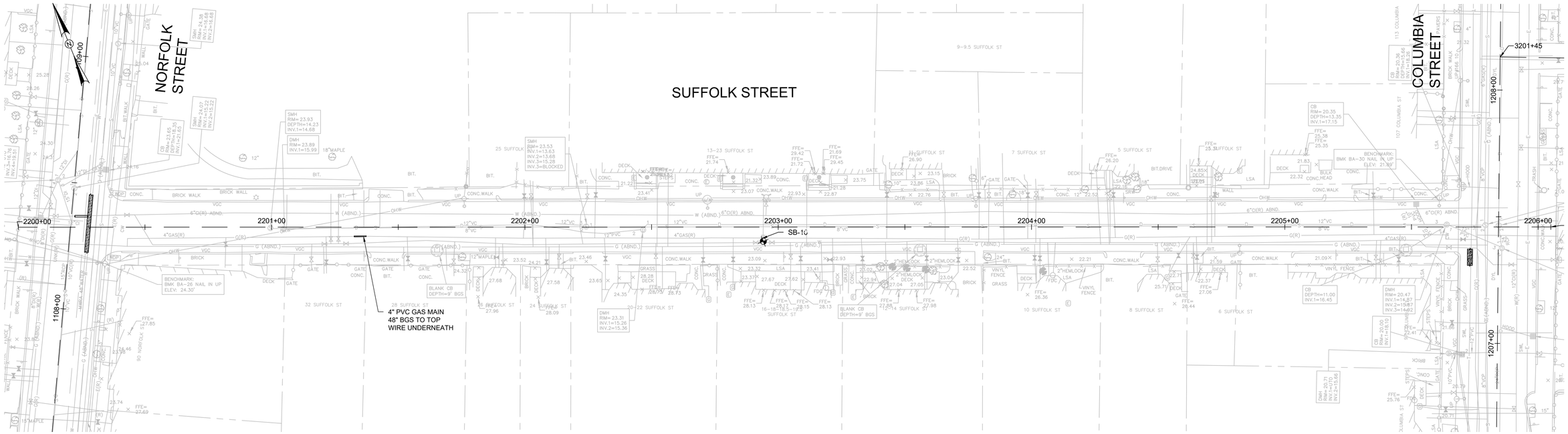
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: EXISTING CONDITIONS
WORCESTER STREET STA. 2100+00 TO STA. 2105+90

Sheet: EC-9

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\General\Production Drawings\Package 1\PORT-KLF-EC-9_Worcester Street_P1.dwg LAYOUT: EC-9 BY: peter garland



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

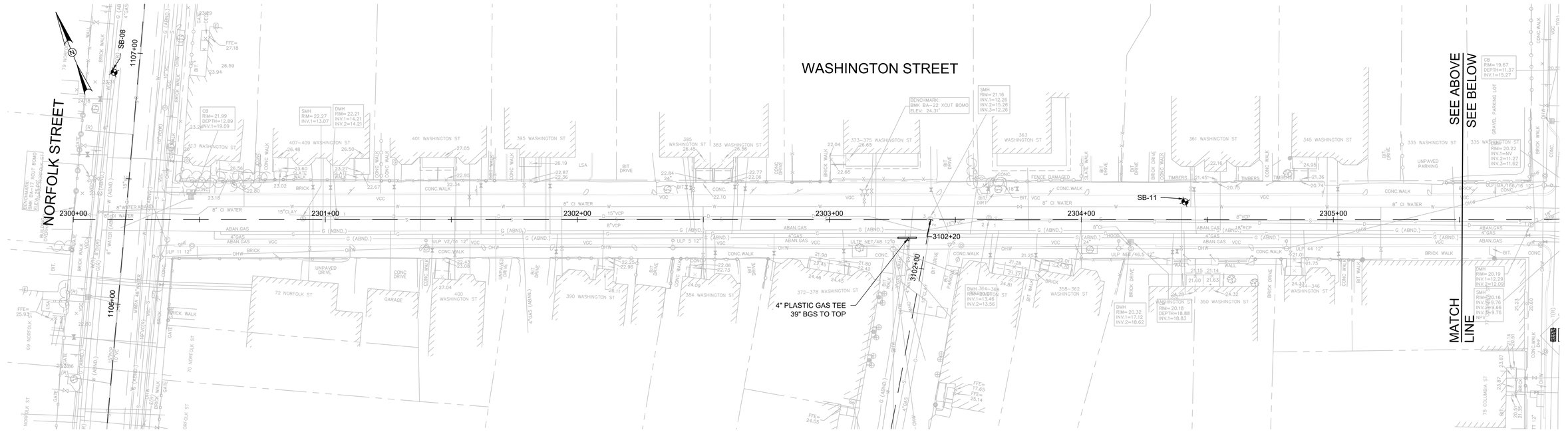
Drawing: EXISTING CONDITIONS
SUFFOLK STREET STA. 2200+00 TO STA 2206+00

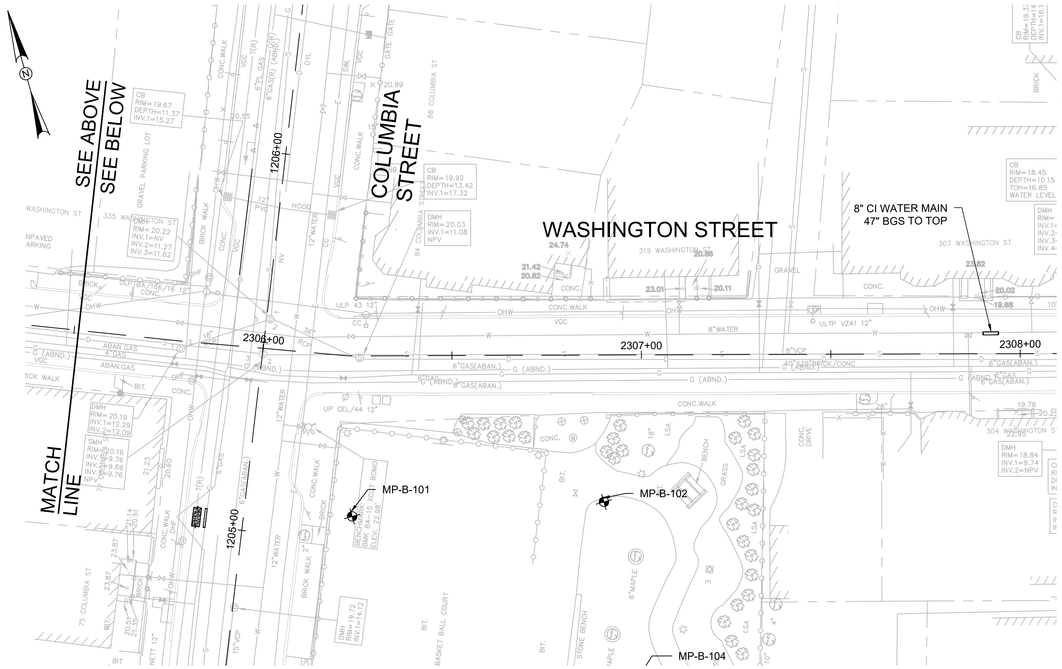
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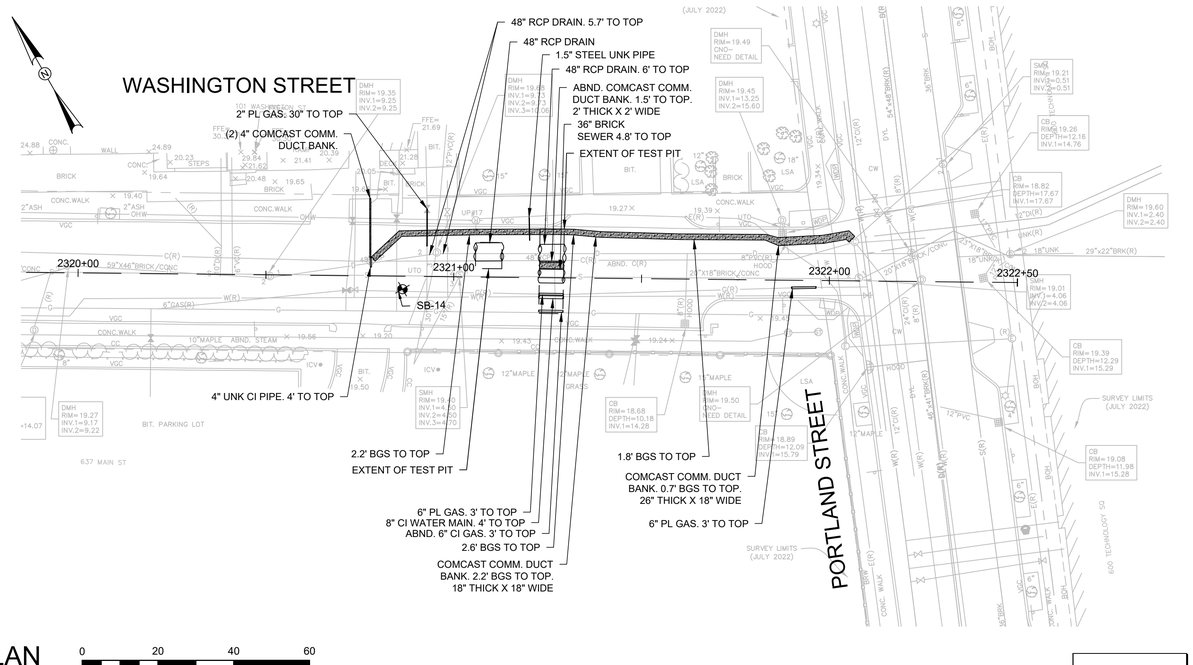
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Plot date: 9/16/2025 5:04:41 PM

Plot date: 12/18/2025 5:00:32 PM
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PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

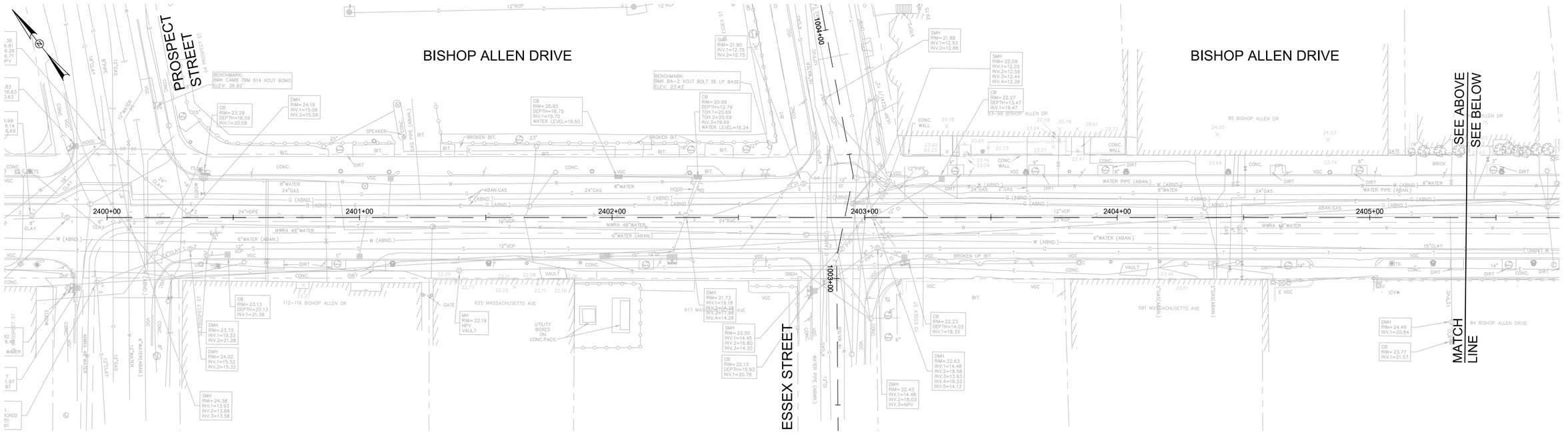
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

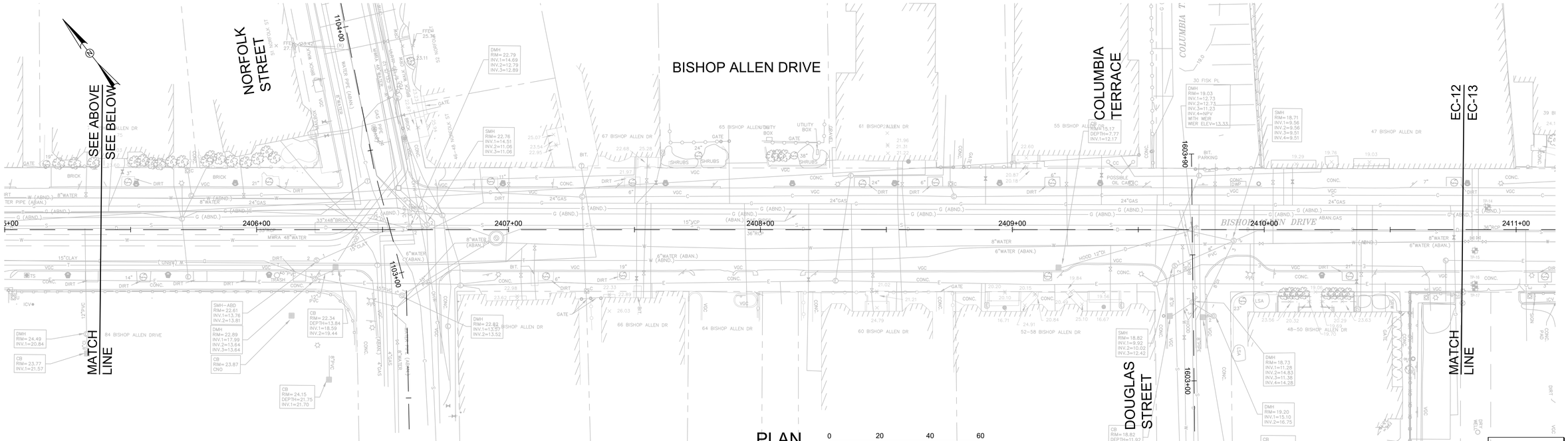
Drawing: EXISTING CONDITIONS WASHINGTON STREET STA. 2300+00 TO STA. 2322+50

Sheet: EC-11

File No.: 30724

Plot date: 10/8/2025 12:13:04 PM
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PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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BENJAMIN M. STODDARD CIVIL No. 51854 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

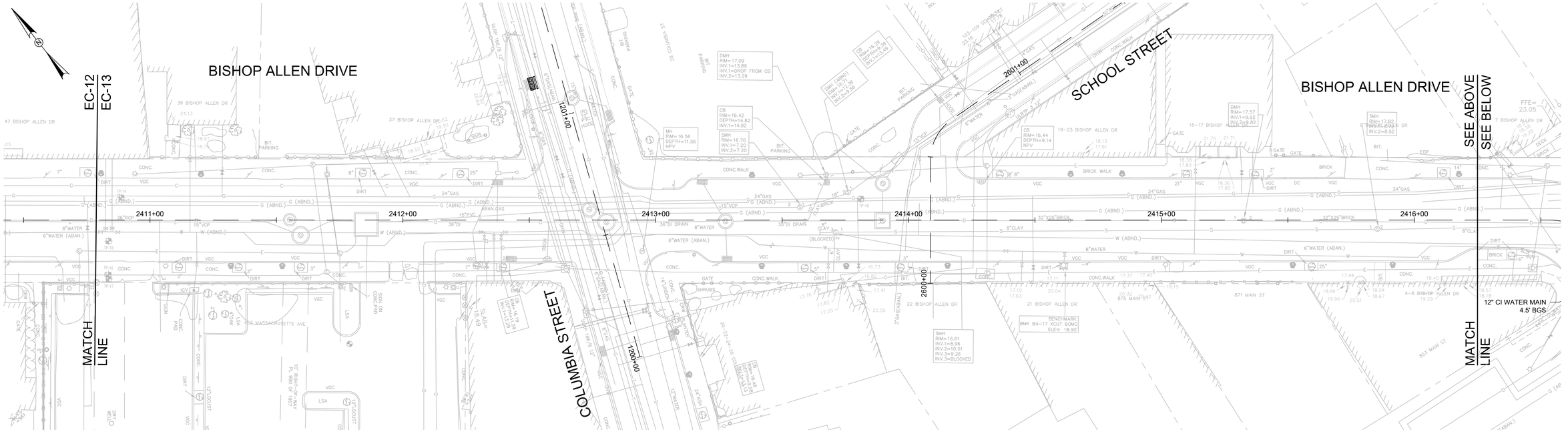
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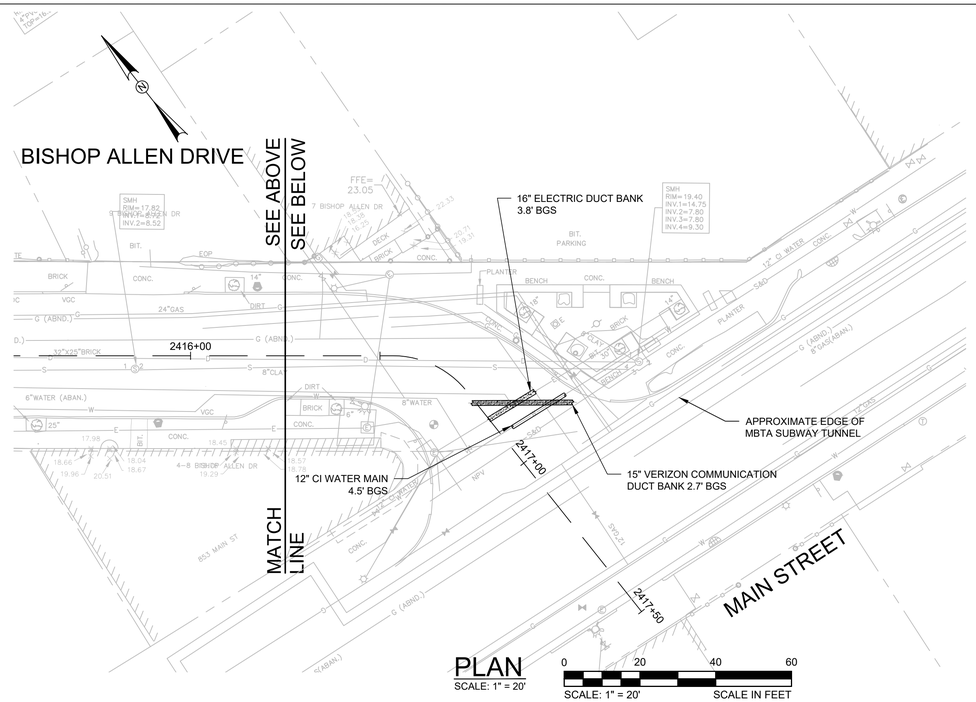
Drawing: EXISTING CONDITIONS
BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2410+75

Sheet: EC-12

File No.: 30724

Plot date: 10/8/2025 12:13:04 PM





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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

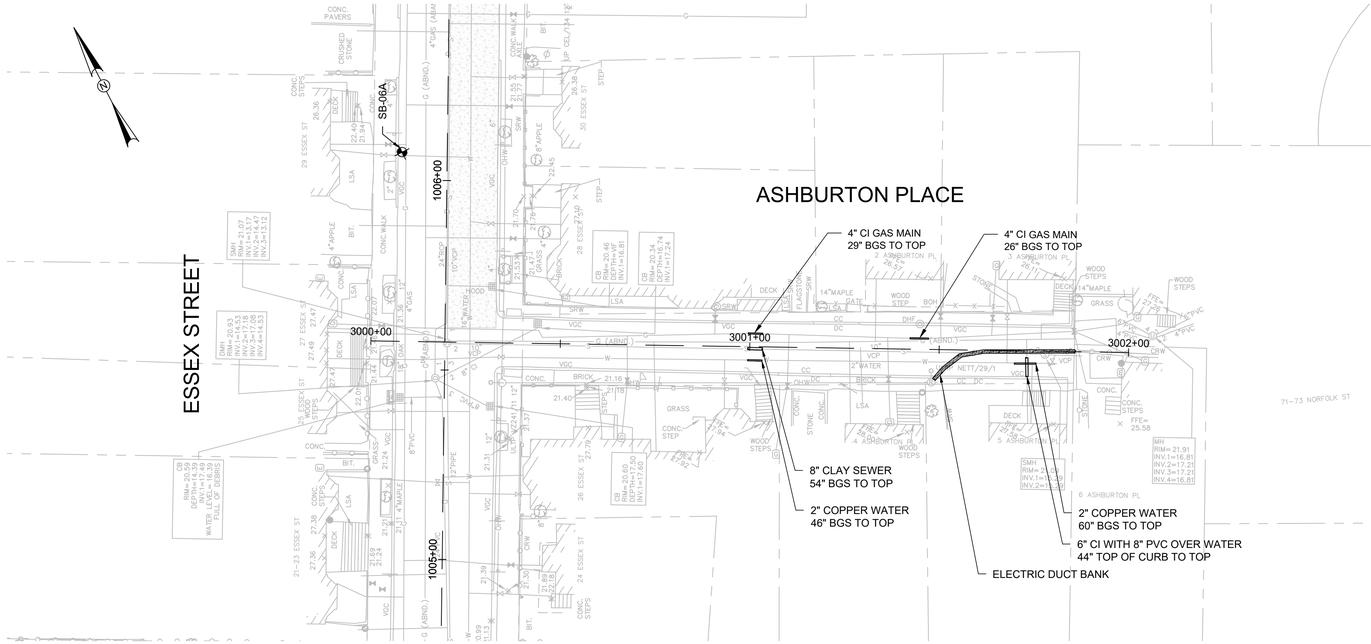
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: EXISTING CONDITIONS
BISHOP ALLEN DRIVE STA. 2410+75 TO STA. 2417+50

Sheet: EC-13

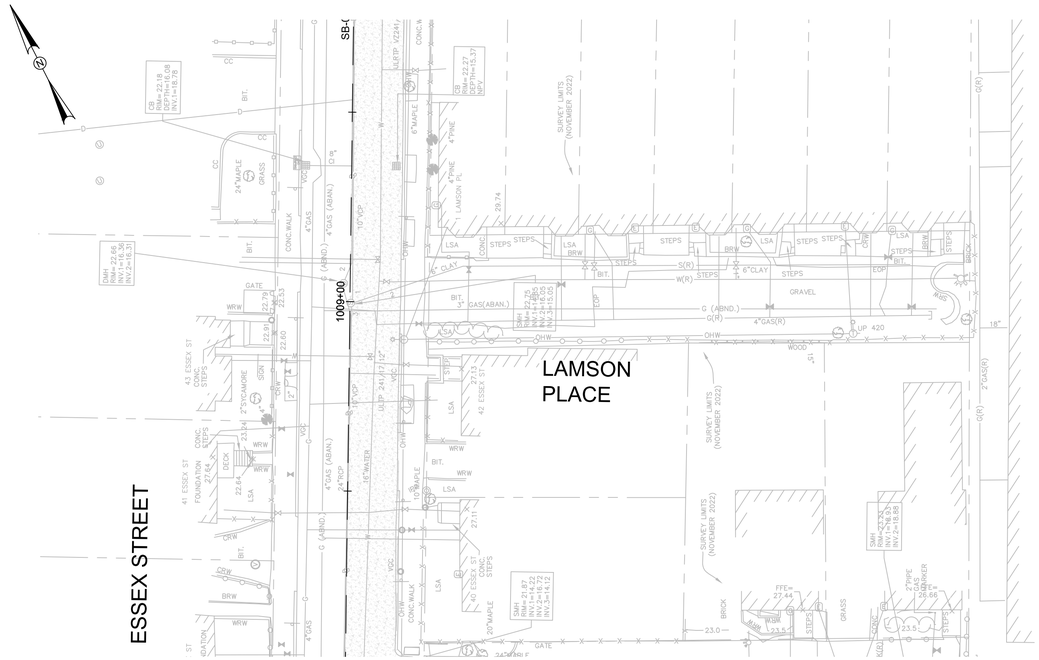
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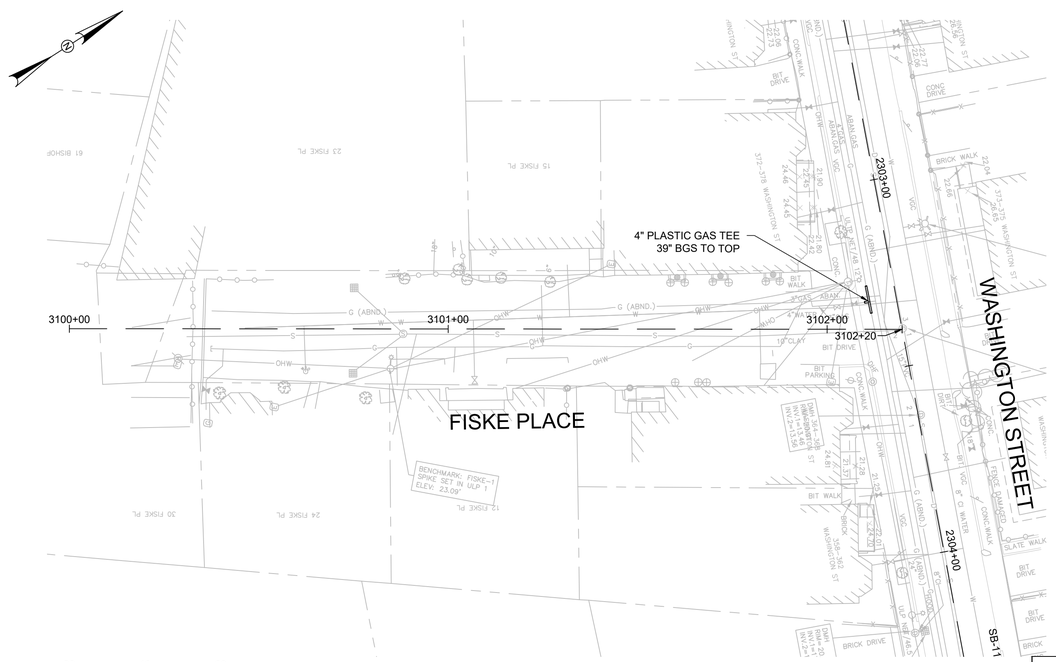


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



PLAN
SCALE: 1" = 20'



0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

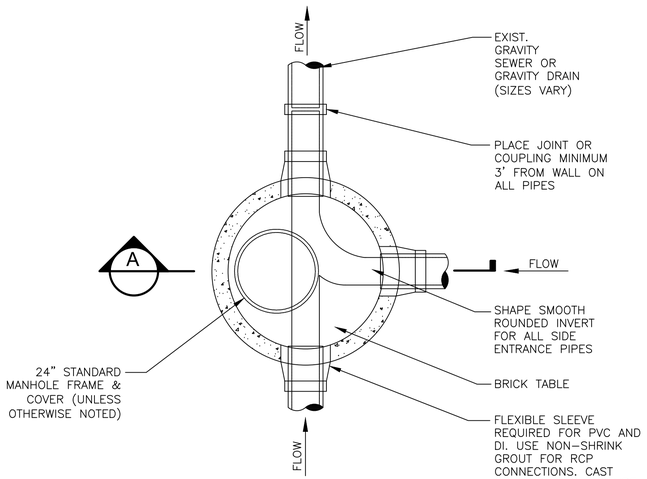
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: EXISTING CONDITIONS ASHBURTON PLACE, LAMSON PLACE, & FISKE PLACE

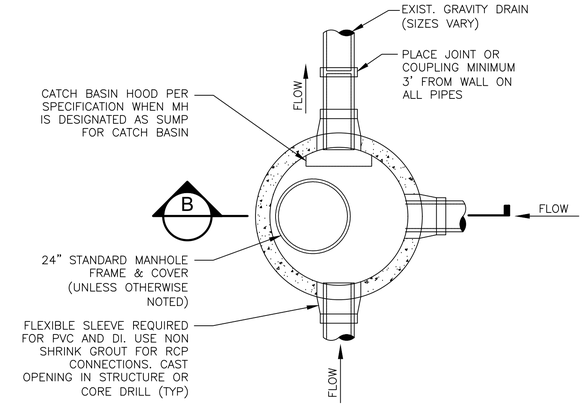
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PLAN

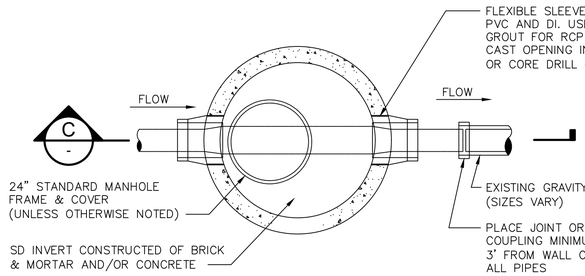


PLAN

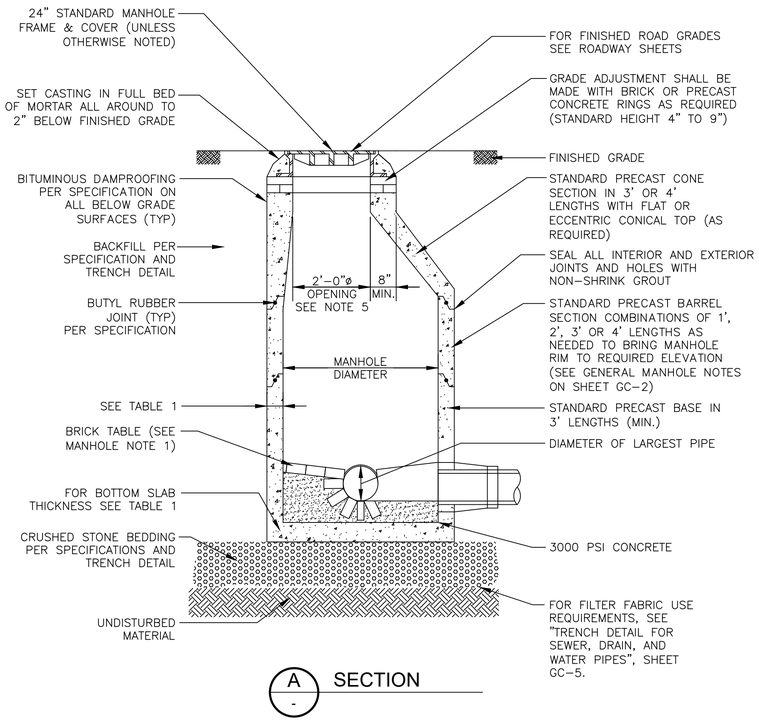
TABLE 1 : MANHOLE DIMENSIONS				
MANHOLE DIAMETER	SIDE WALL MIN. THICKNESS	BOTTOM SLAB MIN. THICKNESS	MAX PIPE DIAMETER * RCP	DI/PVC
4'	5"	6"	24"	30"
5'	6"	8"	36"	42"
6'	6"	8"	48"	54"
8'	8"	8"	66"	72"
10'	10"	10"	72"	84"

*MAY VARY DEPENDING ON SIZE AND LOCATION OF ADDITIONAL PENETRATIONS OR RELATIONSHIP OF PENETRATIONS IN MANHOLE

GENERAL MANHOLE NOTES:
1. INNER EDGE OF BRICK TABLE TO BE AT ELEV OF CROWN OF TOP OF PIPE. TABLE TO SLOPE AT 8.3% TO INSIDE OF MANHOLE BASE.
2. SEWER OR DRAIN MANHOLE DIAMETER SHALL BE 4', 5', 6', OR 8' AS SHOWN ON PLAN/PROFILE VIEWS.
3. DESIGN PRECAST SECTIONS WITH FRAME AND COVER FOR AASHTO H20 LOADINGS.
4. FOR DESCRIPTION OF MATERIALS, SEE SPECIFICATIONS.
5. OPENING IN TOP MANHOLE SECTION SHALL MATCH CASTING NOMINAL DIAMETER.
6. MANHOLES LARGER THAN 4' IN DIAMETER AT THE BASE SHALL BE REDUCED IN DIAMETER TO 4' AT TOP RISER SECTION

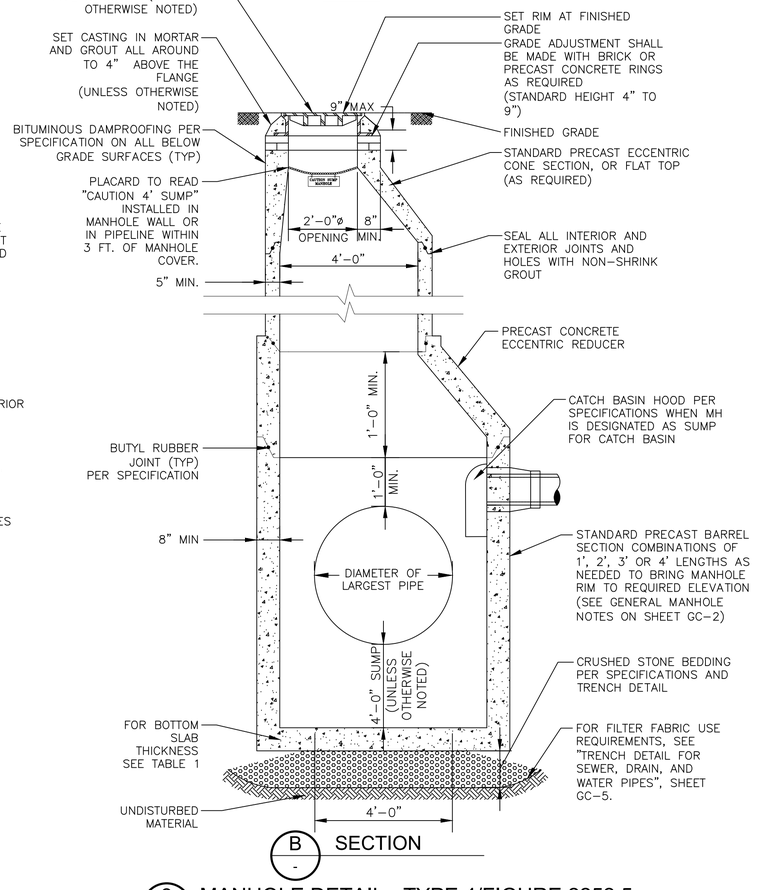


PLAN



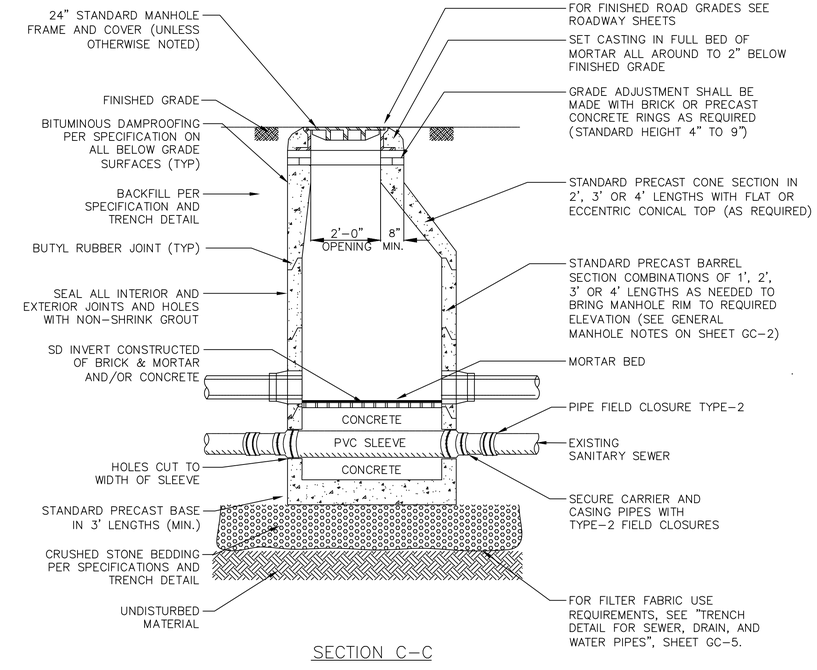
A - SECTION

1 - MANHOLE DETAIL - TYPE 1/FIGURE 2252.2
(STANDARD MANHOLE)



B - SECTION

2 - MANHOLE DETAIL - TYPE 4/FIGURE 2252.5
(SUMP MANHOLE)



SECTION C-C

3 - MANHOLE DETAIL - TYPE 6 / FIGURE 2252.7
(MANHOLE CONSTRUCTED OVER PIPE)

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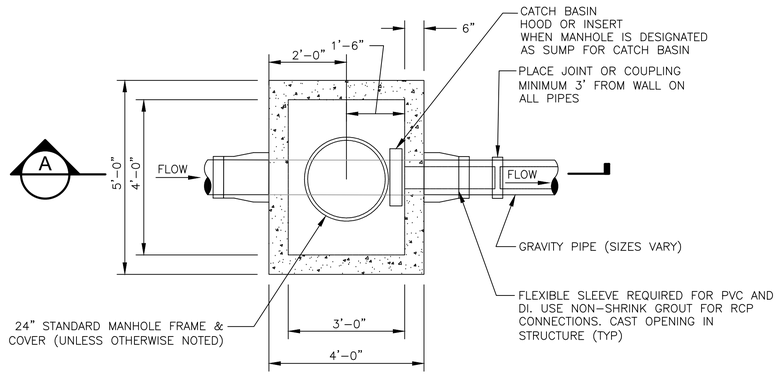
COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	LH			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

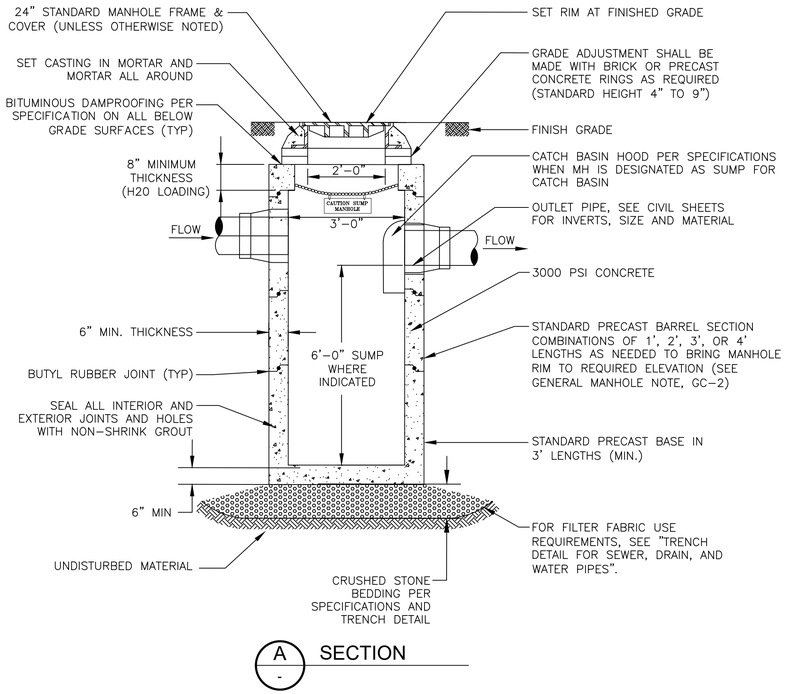
THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL GENERAL DETAILS - 1 OF 9
Sheet: CG-1
File No.: 30724

CAD FILE: C:\Users\dcurtis\DOCS\Documents\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_CG-1_CG-7.dwg LAYOUT: CG-1 BY: bcitts, wsh

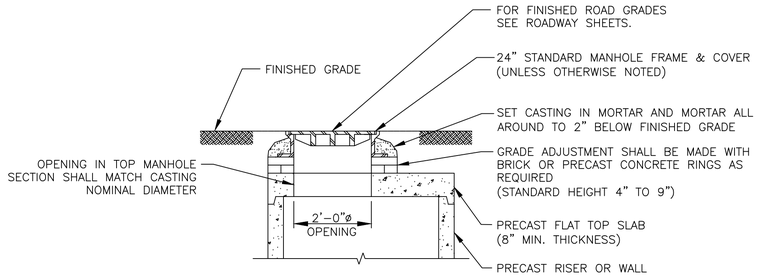


PLAN



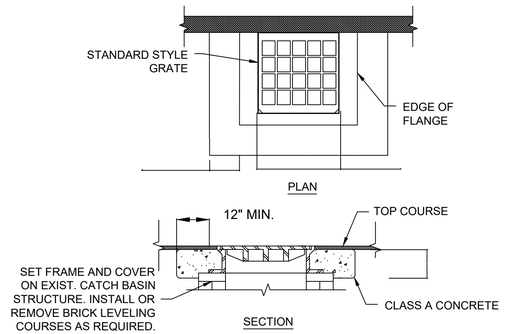
A - SECTION

4 - MANHOLE DETAIL - TYPE 7 3'X4' SQUARE MANHOLE

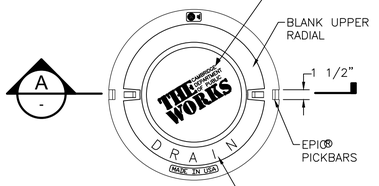


SECTION

5 - TYPICAL FLAT TOP MANHOLE

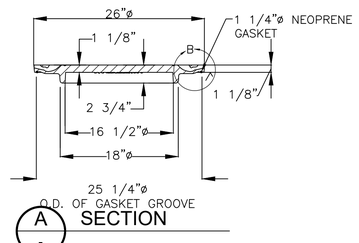


7 - CATCH BASIN - REPLACE FRAME AND GRATE

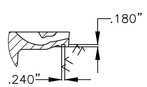




BOTTOM VIEW

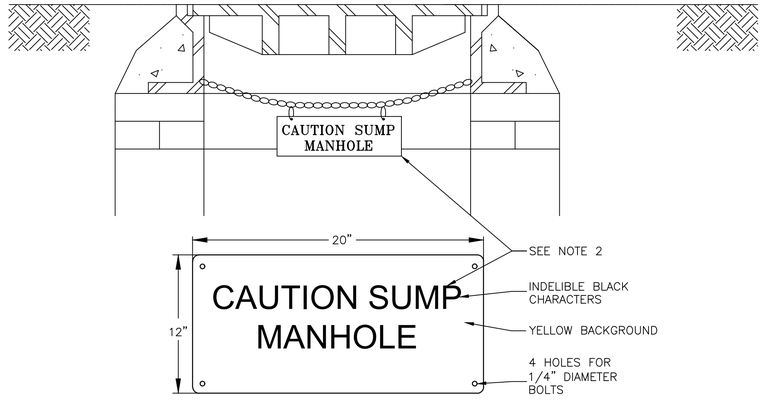


A - SECTION



DETAIL B

6 - MANHOLE COVER DETAIL



NOTE:
1. MATERIAL TO BE 0.040" ALUMINUM WITH BAKED ENAMEL FINISH OR EQUAL, STYLE AS SHOWN. SIGN TO BE ATTACHED IN CONSPICUOUS LOCATION AT ENTRY TO STRUCTURE.
2. WARNING SIGN AT DISCHARGE VAULT SHALL READ "CAUTION FORCEMAIN DISCHARGE"

8 - SUMP MANHOLE AND FORCEMAIN WARNING PLACARD

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
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Drawn by	LH			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

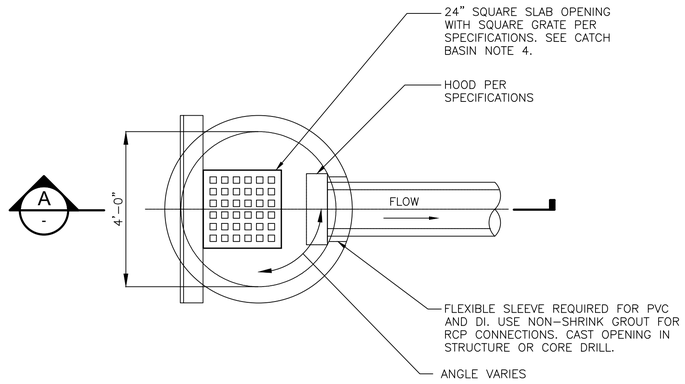
Drawing: CIVIL GENERAL DETAILS - 2 OF 9

Sheet: CG-2

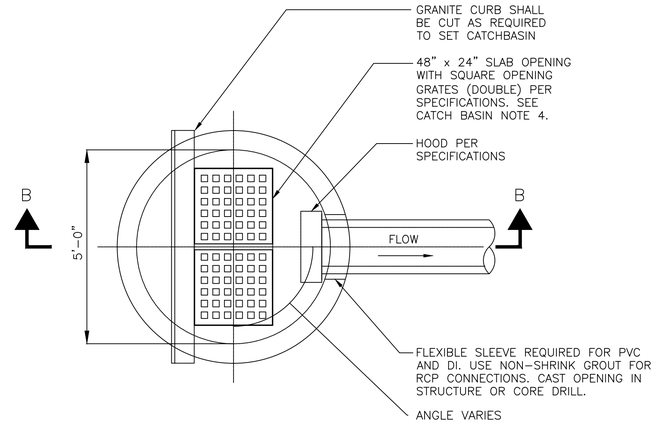
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Plot date: 10/15/2025 11:22:39 AM



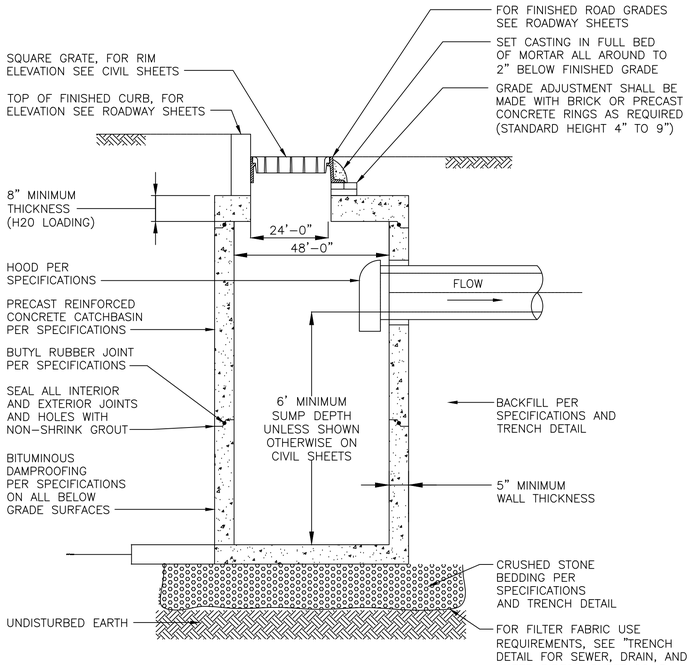
PLAN TYPE-1 (SINGLE GRATE)



PLAN TYPE-2 (DOUBLE GRATE)

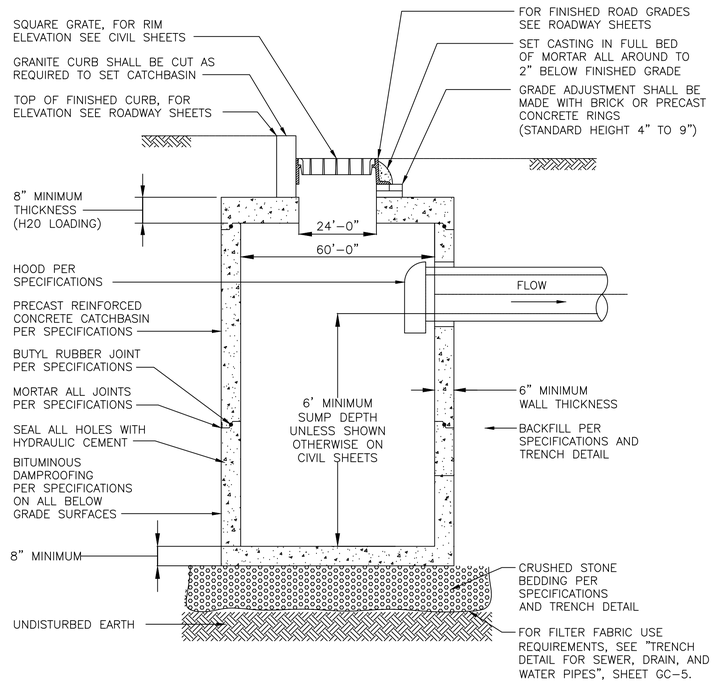
GENERAL CATCH BASIN NOTES:

1. FACE OF PIPE SHALL NOT PROJECT MORE THAN 4-INCHES FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
2. FOR DESCRIPTION OF MATERIALS AND CONSTRUCTION METHOD, SEE SPECIFICATIONS.
3. DESIGN PRECAST SECTIONS WITH FRAME AND GRATE FOR AASHTO H20 LOADING.
4. GRATE OPENING CAN BE CENTERED OR OFFSET PERPENDICULAR TO THE CURB. TYPE 3 AND 4 CATCH BASINS SHALL HAVE GRATE OPENINGS AND PIPES OFFSET.
5. FOR CATCH BASINS INSTALLED ABUTTING GRANITE CURBS, SELECT 3-FLANGED FRAMES.
6. DON'T DUMP CURB MARKERS SHALL BE INSTALLED ON ALL CATCH BASINS IN THE PROJECT AREA. SEE SPECIFICATION SECTION 02604 AND DETAIL 17 ON SHEET GC-6
7. FOR TYPE 3 AND 4, WHERE ANGLED PIPE CONNECTIONS ARE REQUIRED BY THE DRAWINGS OR FIELD CONDITIONS, THE CONTRACTOR SHALL COORDINATE WITH THE PRECAST SUPPLIER, PRIOR TO ORDERING, TO PROVIDE CAST OPENINGS AND SUFFICIENT STRUCTURAL REINFORCEMENT. THE CONTRACTOR SHALL SUBMIT THE INDIVIDUAL CATCH BASINS FOR ENGINEER REVIEW AND APPROVAL.
8. HOOD TYPE SHALL BE FLAT OR CURVED TO MATCH CATCH BASIN OR MANHOLE SHAPE. CONTRACTOR SHALL GROUT BEHIND ANGLED HOODS AND SHALL BE FLAT TYPE.
9. GRATE TYPE VARIES DEPENDANT ON SHARED STREET CONDITION. SEE CIVIL PLANS AND CATCH BASIN SPEC FOR LOCATIONS AND REQUIREMENTS.



A - SECTION (TYPE-1)

9 - CATCH BASIN-TYPE 1/FIGURE 2604.2
(WITH SQUARE OPENING GRATE-SINGLE)



SECTION B-B TYPE-2

10 - CATCH BASIN-TYPE 2/FIGURE 2604.3
(WITH SQUARE OPENING GRATES-DOUBLE)

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CAD FILE: C:\Users\sbotts\DC\ACCDocs\Stantec Consulting\19513020_Morgan_Tanks_Complete_Sheet\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_CG-1_CG-7.dwg LAYOUT: CG-3 BY: botts, seb

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COMMONWEALTH OF MASSACHUSETTS
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THE WORKS

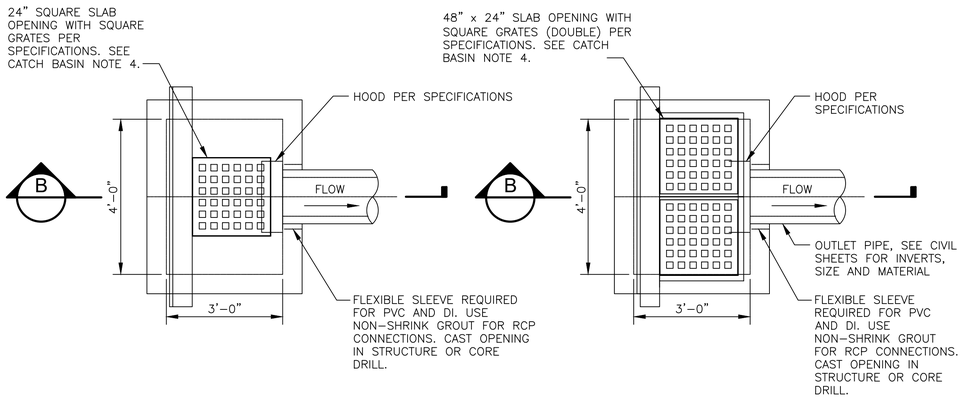
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL GENERAL DETAILS - 3 OF 9

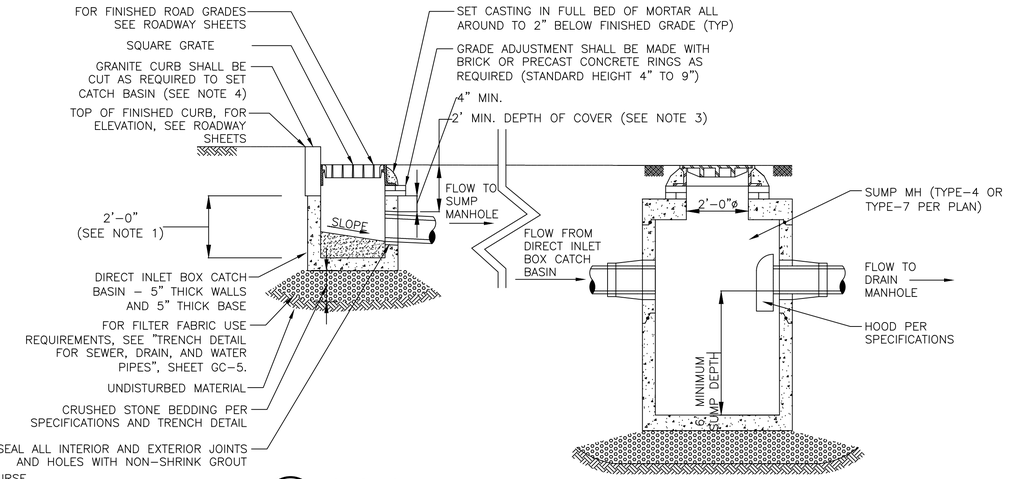
Sheet: CG-3

File No.: 30724



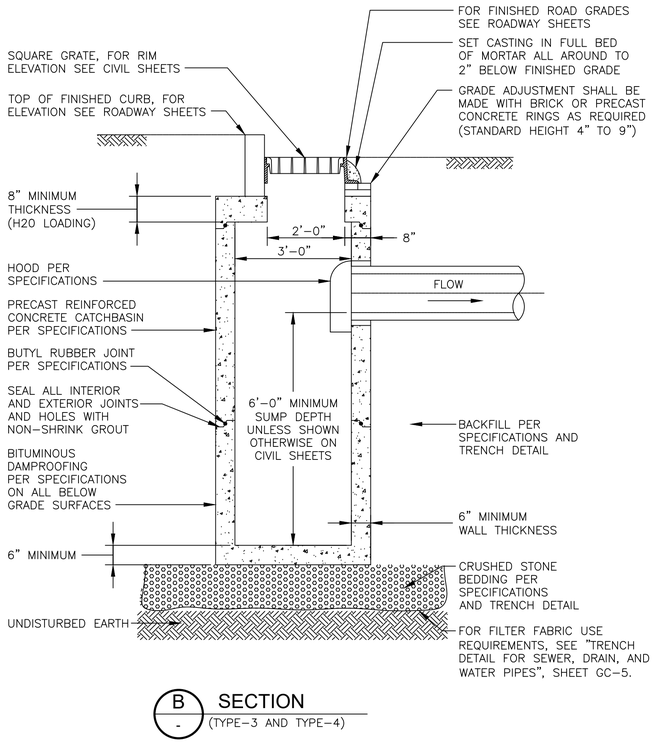
PLAN TYPE-3 (SINGLE GRATE)

PLAN TYPE-4 (DOUBLE GRATE)



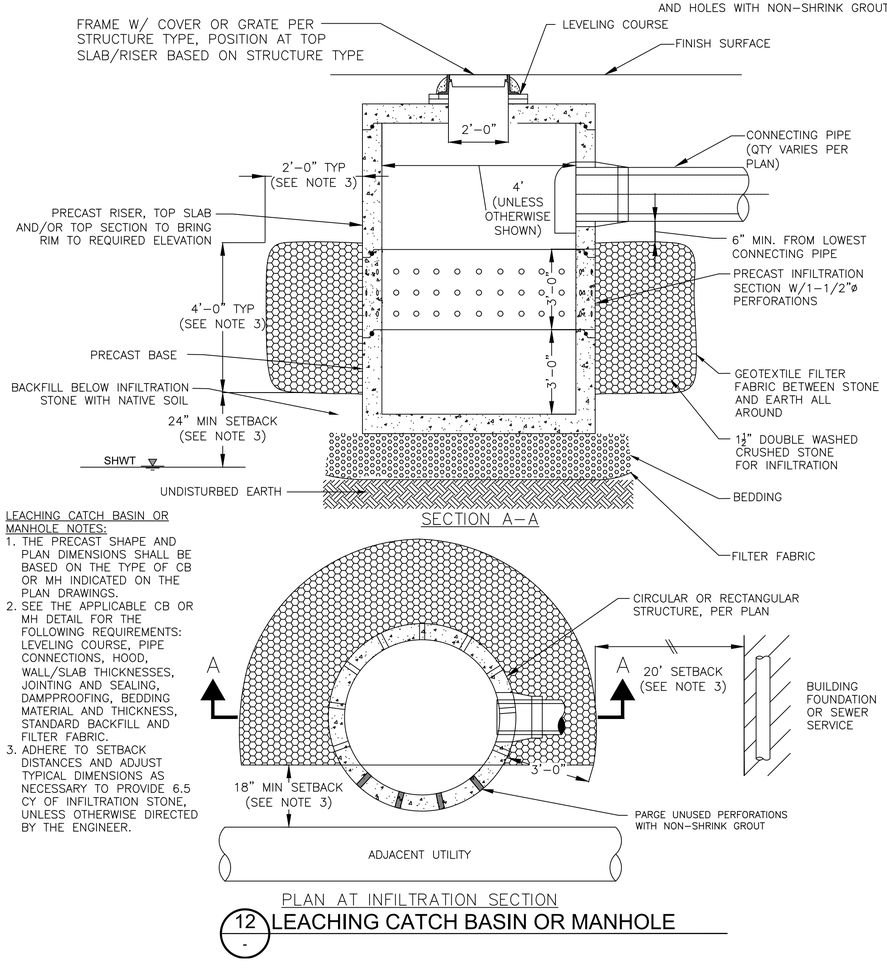
A - SECTION

OFFLINE SUMP MH



B - SECTION (TYPE-3 AND TYPE-4)

11 - CATCH BASIN-TYPE 3/FIGURE 2604.4
CATCH BASIN-TYPE 4/FIGURE 2604.4
(TYPE 3/FIGURE 2604.4 WITH SINGLE SQUARE OPENING GRATE TYPE 4/FIGURE 2604.4 WITH DOUBLE SQUARE OPENING GRATES)

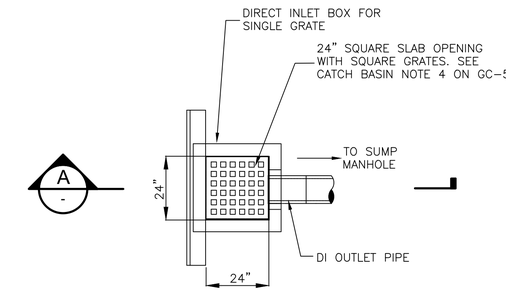


SECTION A-A

LEACHING CATCH BASIN OR MANHOLE NOTES:
1. THE PRECAST SHAPE AND PLAN DIMENSIONS SHALL BE BASED ON THE TYPE OF CB OR MH INDICATED ON THE PLAN DRAWINGS.
2. SEE THE APPLICABLE CB OR MH DETAIL FOR THE FOLLOWING REQUIREMENTS: LEVELING COURSE, PIPE CONNECTIONS, HOOD, WALL/SLAB THICKNESSES, JOINTING AND SEALING, DAMPPROOFING, BEDDING MATERIAL AND THICKNESS, STANDARD BACKFILL AND FILTER FABRIC.
3. ADHERE TO SETBACK DISTANCES AND ADJUST TYPICAL DIMENSIONS AS NECESSARY TO PROVIDE 6.5 CY OF INFILTRATION STONE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

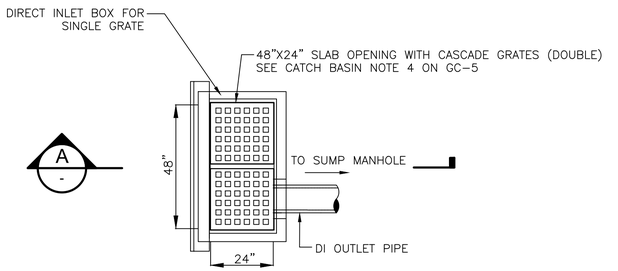
PLAN AT INFILTRATION SECTION

12 - LEACHING CATCH BASIN OR MANHOLE



PLAN (SINGLE GRATE)

NOTES:
1. 18" MIN. ALLOWED WHEN CONFLICT WITH UTILITIES EXISTS AND WITH THE APPROVAL OF THE ENGINEER.
2. WHERE ANGLED PIPE CONNECTIONS ARE REQUIRED BY THE DRAWINGS OR FIELD CONNECTIONS, THE CONTRACTOR SHALL COORDINATE WITH THE PRECAST SUPPLIER, PRIOR TO ORDERING, TO PROVIDE CAST OPENINGS AND SUFFICIENT STRUCTURAL REINFORCEMENT. THE CONTRACTOR SHALL SUBMIT THE INDIVIDUAL CATCH BASINS FOR ENGINEER REVIEW AND APPROVAL.
3. WHERE MIN. DEPTH OF COVER CAN NOT BE MET, PROVIDE CLASS 56 DI PIPE WITH 6" CDF ENCASEMENT ALL AROUND THE PIPE. NON-FLY ASH MIX SHALL BE USED.
4. FOR SHARED STREET CONDITIONS, OMIT CURB WHERE DEPICTED IN TRAVEL WAY AND PROVIDE 4-SIDED FLANGE FRAME.



PLAN (DOUBLE GRATE)

13 - CATCH BASIN-TYPE 5/FIGURE 2604.5/2604.6
(DIRECT INLET WITH DOUBLE OR SINGLE GRATE)

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Stantec

CHRISTIAN E. OLANDER, CIVIL, No. 50676, REGISTERED PROFESSIONAL ENGINEER, COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	LH			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

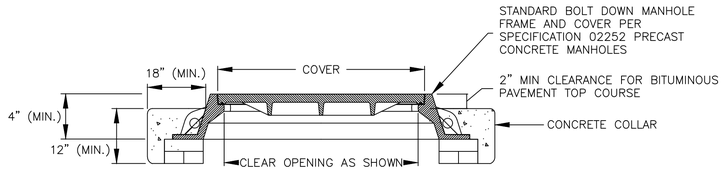
Drawing: CIVIL GENERAL DETAILS - 4 OF 9

Sheet: CG-4

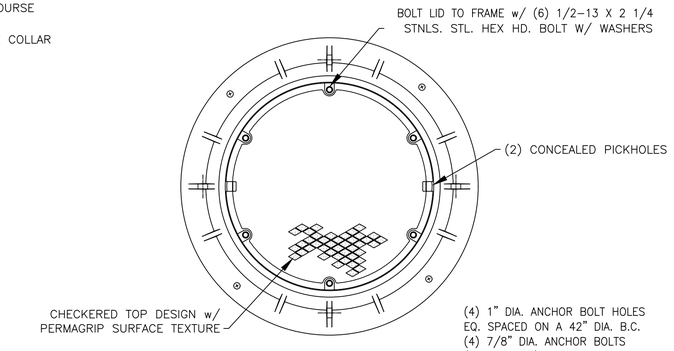
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Plot date: 10/15/2025 11:22:39 AM



SECTION



PLAN

NOTE:
1. PRESSURE TYPE FRAME AND COVERS SHALL BE ANCHORED TO CONCRETE STRUCTURE BELOW. MINIMUM PRESSURE RATING SHALL BE 10 PSI.
2. $\frac{7}{8}$" ANCHOR BOLTS SHALL BE SECURED IN 1"ø CORED HOLES AT A MIN. EMBEDMENT DEPTH OF 7-$\frac{7}{8}$" INCHES AND AN ADHESIVE BOND STRENGTH OF 10,595 LBS.
3. WHEN BOLTED COVERS ARE BEING INSTALLED ON PRE CAST OR CAST IN PLACE CONCRETE STRUCTURES, THE CORED HOLE SHALL EXTEND THROUGH ANY BRICK LEVELING COURSES TO OBTAIN THE REQUIRED EMBEDMENT DEPTH WITHIN THE CONCRETE STRUCTURES.
4. CONTRACTOR SHALL REMOVE EXIST. MANHOLE COVER AND SMOOTH ALL INTERNAL SURFACES LEFT ON THE EXIST. MANHOLE FRAME.
5. DESIGN FRAME AND COVER FOR AASHTO H20 LOADINGS.
6. CONCRETE COLLAR SHALL BE DESIGNED TO MEET H20 LOADING.
7. FOR DESCRIPTION OF MATERIALS, SEE SPECIFICATIONS.

14 - MANHOLE FRAME AND COVER (BOLTED WATER TYPE) DETAIL

TRENCH NOTES:
1. REFER TO SPEC. SECTION 02500 AND PAVEMENT DETAILS FOR PAVEMENT AND SUB BASE REQUIREMENTS.
2. REFER TO SPEC. SECTION 02210 FOR EXCAVATION, BACKFILL, GRADING, BEDDING AND COMPACTION REQUIREMENTS.
3. REFER TO SPEC. SECTION 01025 FOR MEASUREMENT AND PAYMENT.
4. BEDDING SHALL BE PER DIMENSION "A" UNLESS OTHERWISE INDICATED ON PROFILES.
5. FOR EXCAVATION, BEDDING AND BACKFILL IN SILT OR CLAY SOIL SEE SPEC. SECTION 02210.
6. FOR PIPE BEDDING INSTALLED BELOW SEASONAL HIGH GROUNDWATER ELEVATION, INSTALL TRENCH DAM (DETAIL 7) AT 300-FT SPACING.

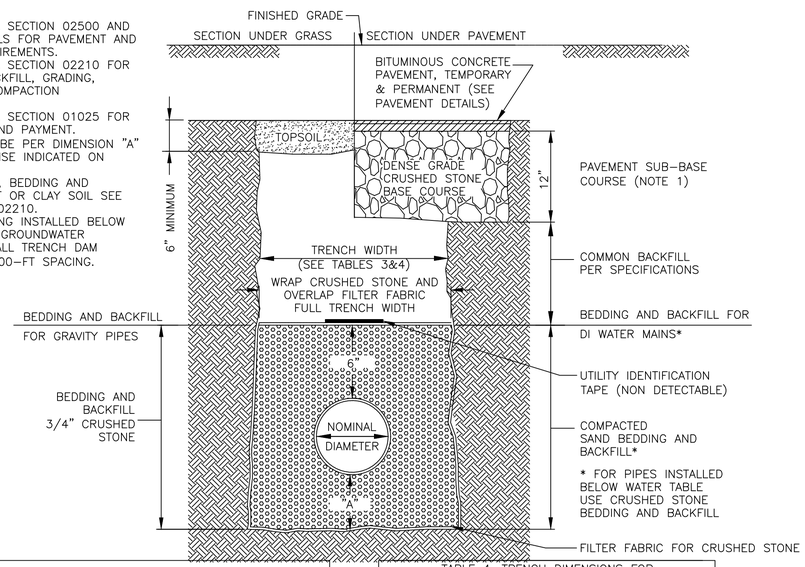


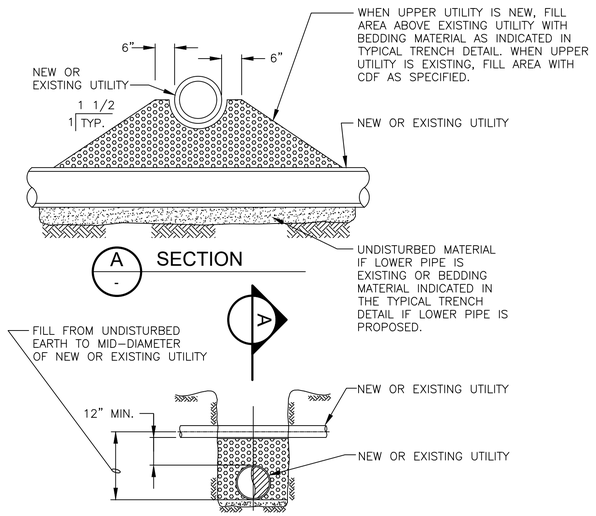
TABLE 3: TRENCH DIMENSIONS FOR PIPES		
PIPE SIZE (DIA.)	TRENCH WIDTH	"A" DEPTH
LESS THAN 2"	2'-0"	6"
2" TO 6"	3'-0"	6"
8" TO 22"	4'-0"	9"
24" & GREATER	I.D. + 2'-0"	12"

I.D. = INSIDE DIMENSION

TABLE 4: TRENCH DIMENSIONS FOR PRECAST STRUCTURES		
WALL THICKNESS	TRENCH	"A" DEPTH
LESS THAN 6"	I.D. + 5'-0"	12"
6" TO 12"	I.D. + 6'-0"	12"
13" TO 18"	I.D. + 7'-0"	12"
19" & GREATER	O.D. + 6'-0"	12"

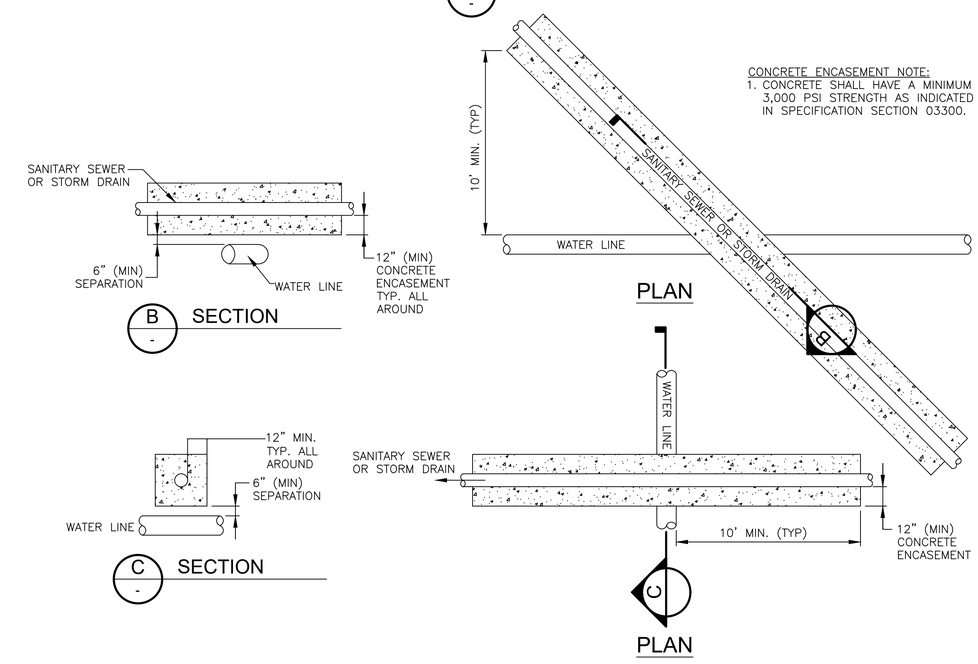
I.D. = INSIDE DIMENSION
O.D. = OUTSIDE DIMENSION

15 - TRENCH DETAIL FOR SEWER, DRAIN AND WATER PIPES



ELEVATION

16 - UTILITY CROSSING DETAIL



17 - CONCRETE ENCASEMENT DETAIL

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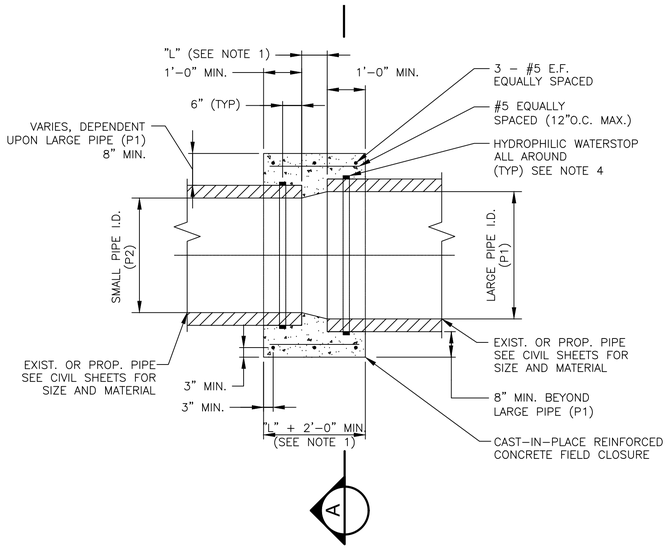
COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

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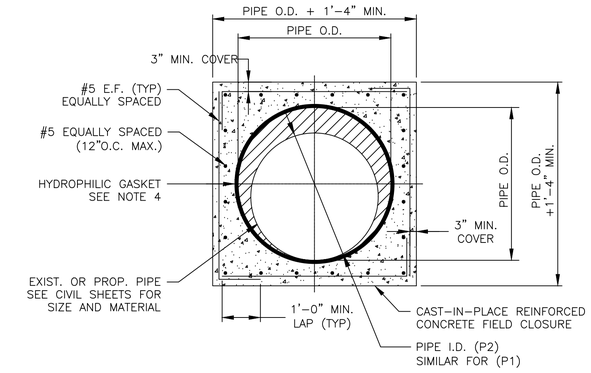
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL GENERAL DETAILS - 5 OF 9
Sheet: CG-5
File No.: 30724

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PLAN

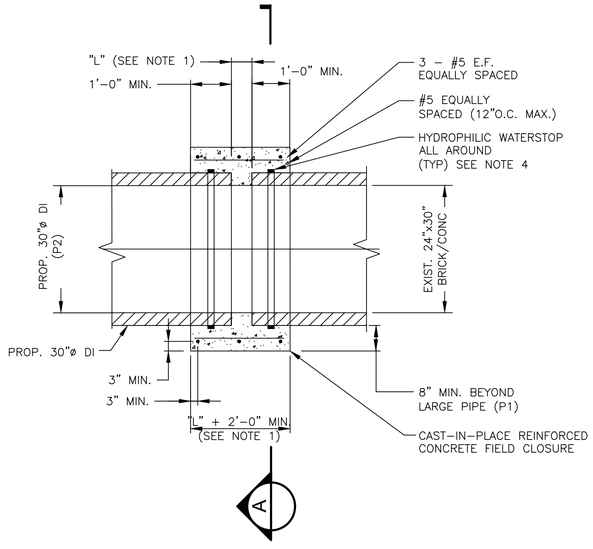


TYPE 1 PIPE FIELD CLOSURE NOTES:
1. SPACING BETWEEN PIPES (L) DEPENDS ON PIPE SIZES, FOR PIPES OF THE SAME SIZE USE 4". THE DISTANCE "L" EQUALS THE LARGE PIPE I.D. MINUS THE SMALL PIPE I.D. TIMES TWO [L=(P1-P2)x2].
2. PROPOSED PIPE INVERT SHALL MATCH EXISTING PIPE INVERT UNLESS OTHERWISE SHOWN ON CIVIL SHEETS.
3. CLEAN EXISTING PIPE PERIMETER BY PRESSURE WASH OR COMPRESSED AIR AND APPLY BONDING AGENT PRIOR TO CONCRETE ENCASEMENT.
4. INSTALL HYDROPHILIC WATERSTOP ALONG PIPE PERIMETER FOR EACH PIPE AS SPECIFIED IN SECTION 03300.
5. CONCRETE AND REBAR REQUIREMENTS SHALL CONFORM TO STANDARD STRUCTURAL DETAILS (DETAIL 8 THIS SHEET, AND DETAIL 27 ON SHEET GC-9) AND SPECIFICATIONS.
6. LOCATION OF FIELD CLOSURE SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
7. MAINTAIN 2" COVER BETWEEN PIPE EXTERIOR AND ALL REINFORCING AND 3" MINIMUM FOR CONCRETE SURFACES SHOWN.
8. WHERE PIPE FIELD CLOSURES ARE PROPOSED IN PEAT AND PEAT IS NOT OVER EXCAVATED, PIPE FIELD CLOSURE EXCAVATION BACKFILL TO BE CDF.

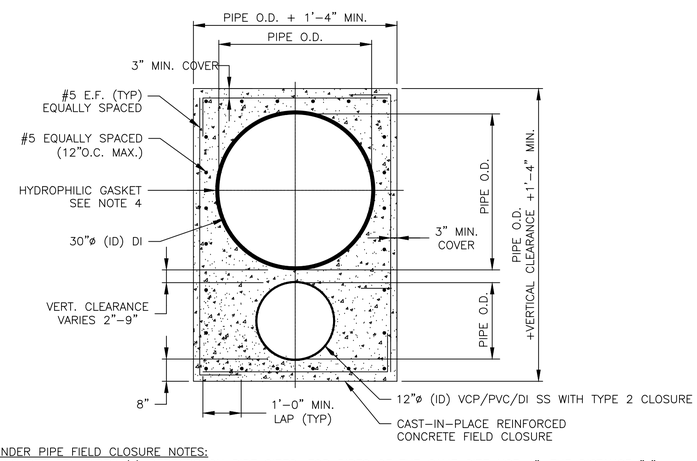
A - SECTION (P1=48" MAX.)

18 - PIPE FIELD CLOSURE (CAST-IN-PLACE) TYPE 1 DETAIL

(FOR NON-PRESSURE PIPES OF DIFFERENT MATERIALS OR SIZES)



PLAN

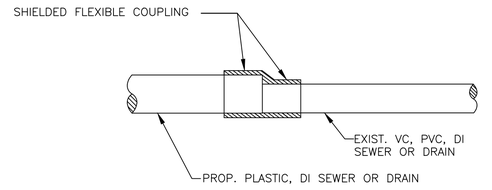


OVER/UNDER PIPE FIELD CLOSURE NOTES:
1. SPACING BETWEEN PIPES (L) DEPENDS ON PIPE SIZES, FOR PIPES OF THE SAME SIZE USE 4". THE DISTANCE "L" EQUALS THE LARGE PIPE I.D. MINUS THE SMALL PIPE I.D. TIMES TWO [L=(P1-P2)x2].
2. PROPOSED PIPE INVERT SHALL MATCH EXISTING PIPE INVERT UNLESS OTHERWISE SHOWN ON CIVIL SHEETS.
3. SAND BLAST EXISTING PIPE PERIMETER AND APPLY BONDING AGENT PRIOR TO CONCRETE ENCASEMENT.
4. INSTALL HYDROPHILIC WATERSTOP ALONG PIPE PERIMETER FOR EACH PIPE AS SPECIFIED IN SECTION 03300.
5. CONCRETE AND REBAR REQUIREMENTS SHALL CONFORM TO STANDARD STRUCTURAL DETAILS (DETAIL 11 THIS SHEET, AND DETAIL 30 ON SHEET GC-9) AND SPECIFICATIONS.
6. LOCATION OF FIELD CLOSURE SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
7. MAINTAIN 2" COVER BETWEEN PIPE EXTERIOR AND ALL REINFORCING AND 3" MINIMUM FOR CONCRETE SURFACES SHOWN.
8. WHERE PIPE FIELD CLOSURES ARE PROPOSED IN PEAT AND PEAT IS NOT OVER EXCAVATED, PIPE FIELD CLOSURE EXCAVATION BACKFILL TO BE CDF.

A - SECTION

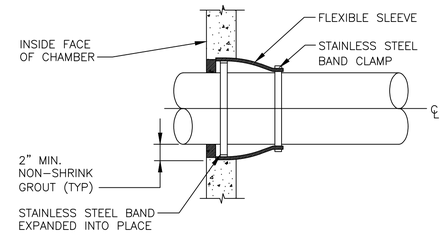
19 - PIPE FIELD CLOSURE (CAST-IN-PLACE) TYPE 1 (OVER/UNDER) DETAIL

(FOR NON-PRESSURE PIPES OF DIFFERENT MATERIALS OR SIZES)



TYPE 2 PIPE FIELD CLOSURE NOTES:
1. FOR ALL GRAVITY MAINS AND LATERAL PIPES (SEWERS OR DRAINS). SEE SPECIFICATIONS FOR MATERIALS AND REQUIREMENTS.

20 - PIPE FIELD CLOSURE (SHIELDED FLEXIBLE COUPLING) TYPE 2 DETAIL



FLEXIBLE SLEEVE CONNECTION NOTE:
1. PRECAST OPENING OR CORE DRILLED INTO EXISTING STRUCTURE. SIZE VARIES TO ACCOMMODATE EXTENSION BONNET FLANGE DIAMETER OR PIPE.

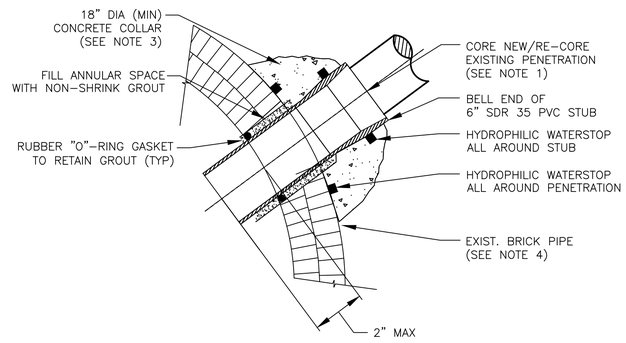
21 - FLEXIBLE SLEEVE CONNECTION DETAIL

EXISTING PIPE MATERIAL						
NEW PIPE MATERIAL		BRICK	RCP	DI	VC	PLASTIC
	BRICK	1	1	1	1	1
	RCP	1	1	1	1	1
	DI	1	1	2	2	2
	VC	1	1	2	2	2
	PLASTIC	1	1	2	2	2

PIPE CONNECTION TABLE

TYPE 1 = PIPE FIELD CLOSURE (CAST-IN-PLACE)
TYPE 2 = SHIELDED FLEXIBLE COUPLING

PIPE CONNECTION NOTES:
1. PIPE COUPLERS SHALL BE INSTALLED PER THE TABLE ABOVE UNLESS OTHERWISE NOTED.



NOTES:
1. CONNECTION TO BE POSITIONED AS REQUIRED AT OR BETWEEN CROWN AND SPRINGLINE.
2. REFER TO SPECIFICATIONS FOR GASKET AND CORE REQUIREMENTS.
3. PROVIDE MIN. 4" CONCRETE COVER OVER HYDROPHILIC WATERSTOPS PER MANUFACTURER INSTRUCTIONS.
4. TWO-COARSE BRICK SHOWN AS EXAMPLE ONLY, VERIFY IN FIELD.

22 - SERVICE CONNECTION TO EXISTING BRICK DRAIN

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CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
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Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

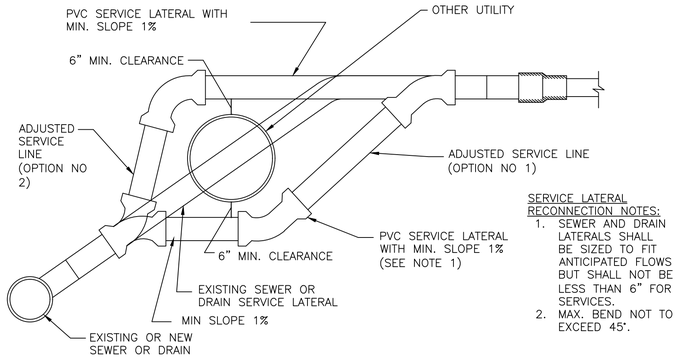
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL GENERAL DETAILS - 6 OF 9

Sheet: CG-6

File No.: 30724

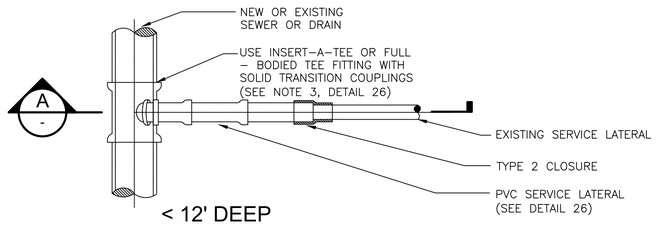
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SERVICE LATERAL RECONNECTION NOTES:
1. SEWER AND DRAIN LATERALS SHALL BE SIZED TO FIT ANTICIPATED FLOWS BUT SHALL NOT BE LESS THAN 6" FOR SERVICES.
2. MAX. BEND NOT TO EXCEED 45°.

23 - SEWER OR DRAIN SERVICE LATERAL RECONNECTION

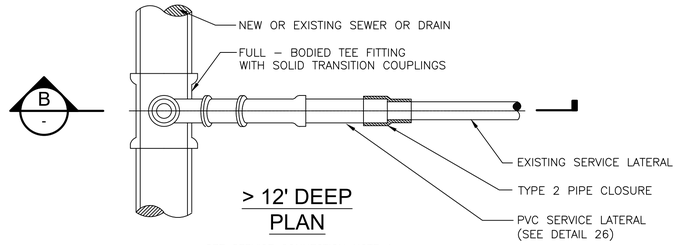
FOR CONFLICTS WITH OTHER UTILITIES
(FOR WATERMAIN CROSSINGS REFER TO DETAIL 17)



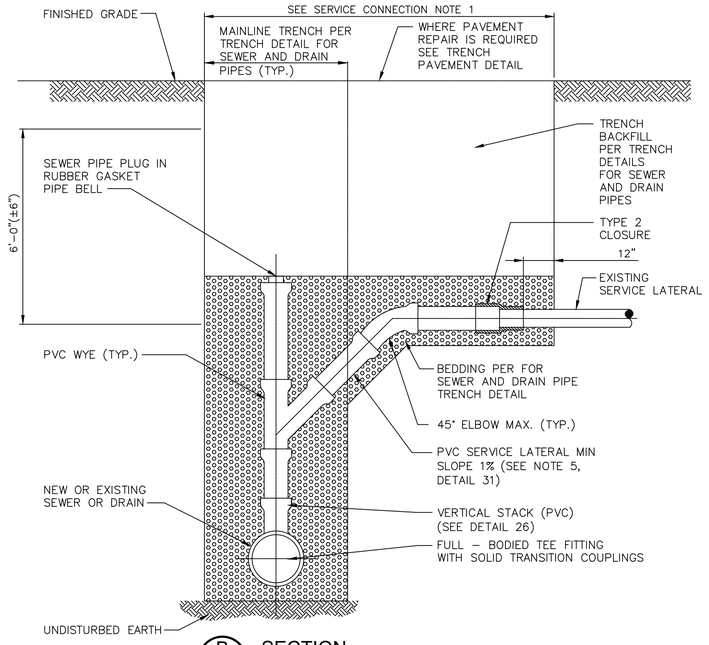
< 12' DEEP PLAN

A - SECTION

25 - SEWER AND DRAIN SERVICE CONNECTION <12' DEEP



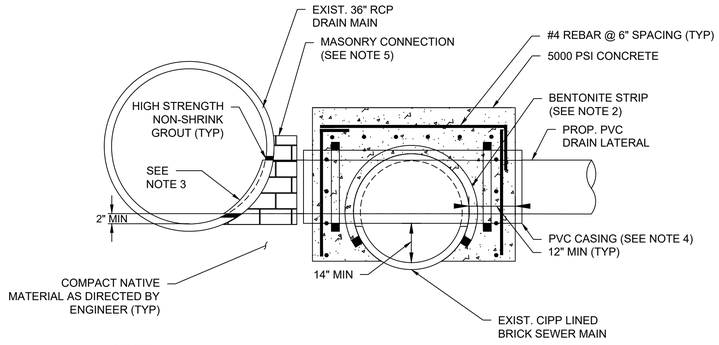
> 12' DEEP PLAN



B - SECTION

26 - SEWER OR DRAIN SERVICE CONNECTION WITH CHIMNEY

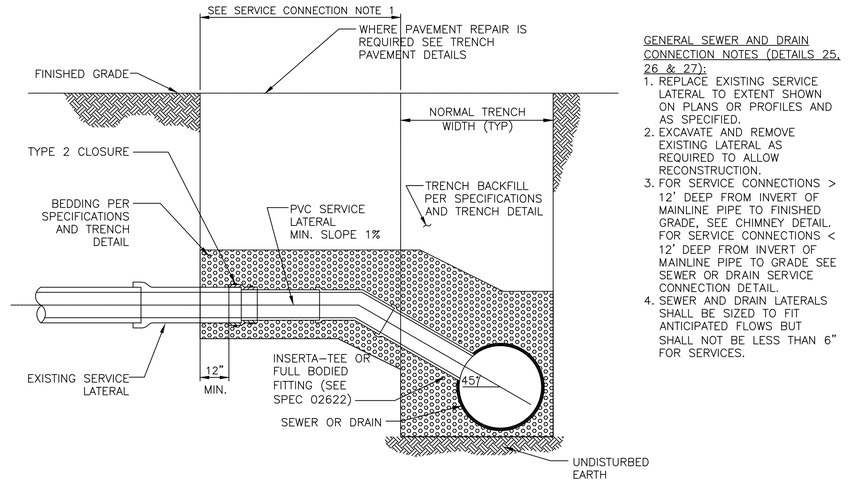
(>12' DEEP)



NOTES:
1. PROPOSED DRAIN LATERAL SHOULD HAVE A MINIMUM OF 0.5% SLOPE INTO DRAIN MAIN IF POSSIBLE.
2. POSITION BENTONITE STRIP ALL AROUND CUT OPENING OF BRICK PIPE AND AROUND EACH END OF CASING WITH MINIMUM 4" CONCRETE COVERAGE.
3. BEVEL END OF PVC LATERAL TO MATCH RADIUS OF RCP MAIN.
4. PROVIDE ONE NOMINAL SIZE LARGER THAN THE CARRIER PIPE AND PROVIDE ANNULAR SEAL AT EACH END.
5. DIMENSIONS AND MATERIALS OF MASONRY CONNECTION SHALL BE DIRECTED BY ENGINEER IN THE FIELD.
6. FOR CONCRETE WORK COMPLY WITH THE GENERAL REQUIREMENTS FOR TYPE-1 FIELD CLOSURES (SEE DETAIL 18).

24 - DRAIN LATERAL THROUGH BRICK SEWER MAIN AND TIE-IN TO RCP DRAIN

SCALE: N.T.S.



GENERAL SEWER AND DRAIN CONNECTION NOTES (DETAILS 25, 26 & 27):
1. REPLACE EXISTING SERVICE LATERAL TO EXTENT SHOWN ON PLANS OR PROFILES AND AS SPECIFIED.
2. EXCAVATE AND REMOVE EXISTING LATERAL AS REQUIRED TO ALLOW RECONSTRUCTION.
3. FOR SERVICE CONNECTIONS > 12' DEEP FROM INVERT OF MAINLINE PIPE TO FINISHED GRADE, SEE CHIMNEY DETAIL. FOR SERVICE CONNECTIONS < 12' DEEP FROM INVERT OF MAINLINE PIPE TO GRADE SEE SEWER OR DRAIN SERVICE CONNECTION DETAIL.
4. SEWER AND DRAIN LATERALS SHALL BE SIZED TO FIT ANTICIPATED FLOWS BUT SHALL NOT BE LESS THAN 6" FOR SERVICES.

27 - SERVICE CONNECTION

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CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

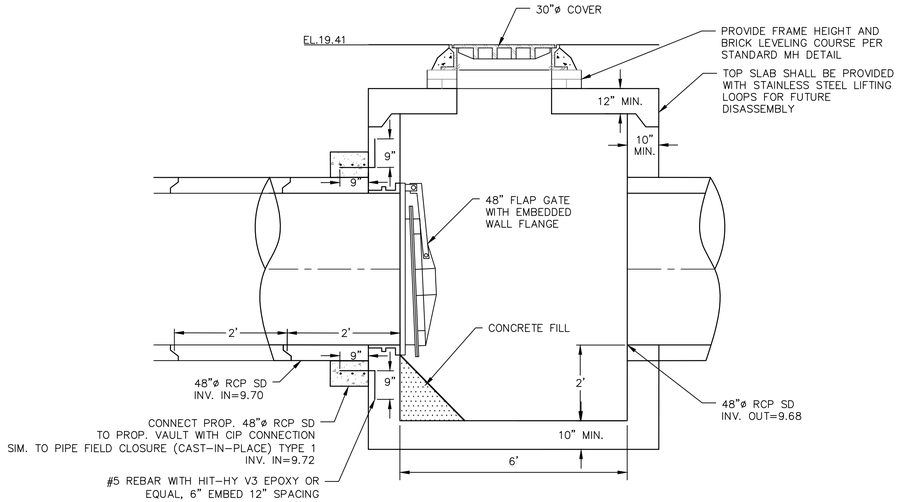
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Checked by	MA	No.	Description	Date	
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Drawing: CIVIL GENERAL DETAILS - 7 OF 9
Sheet: CG-7
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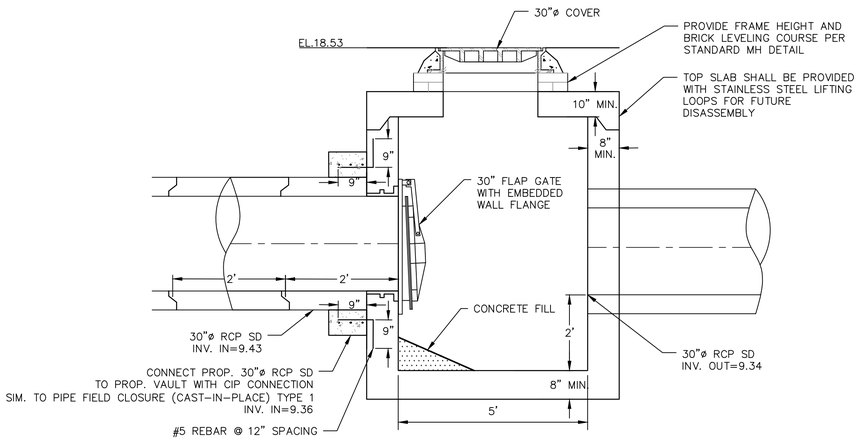
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Plot date: 10/10/2025 11:41:43 AM



28 SD VAULT, WASHINGTON ST @ PORTLAND ST - SECTION

DRAWN TO SCALE



29 SD VAULT, BISHOP ALLEN DRIVE @ MAIN ST- SECTION

DRAWN TO SCALE

CONFORMED

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\19513\0200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_CG-8.dwg LAYOUT: CG-8 BY: butts, seb

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	LH
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

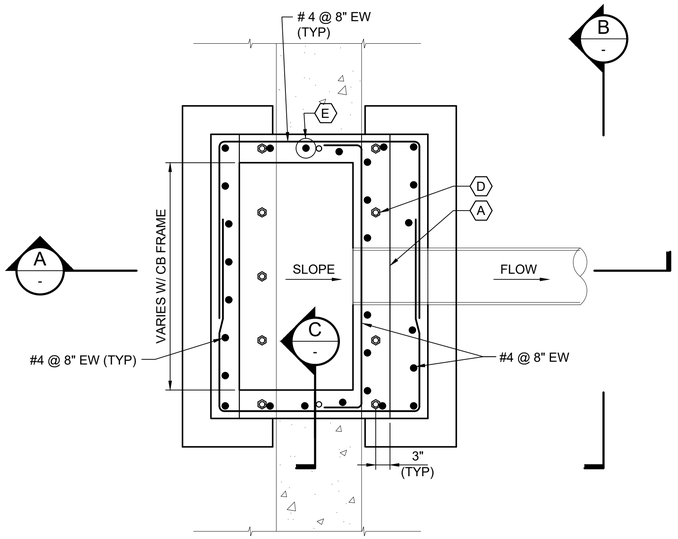
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL GENERAL DETAILS - 8 OF 9

Sheet: CG-8

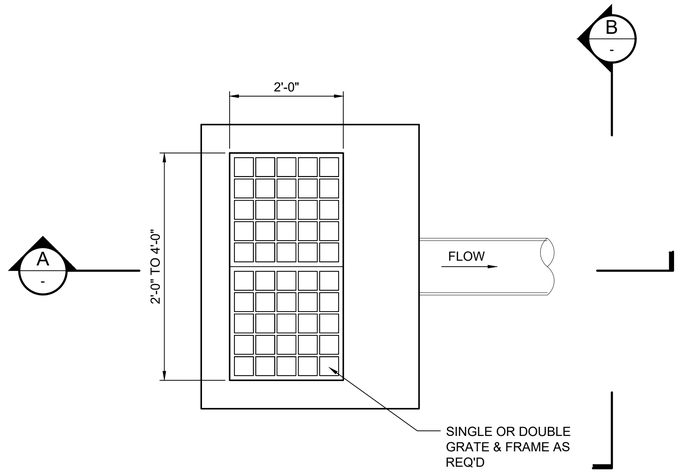
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Plot date - 12/15/2023 4:19:51 PM



BOTTOM PLAN

SCALE: 3/4" = 1'-0"



TOP PLAN

SCALE: 3/4" = 1'-0"

SHEET KEYNOTES

A. 1" A36 STEEL ROADWAY PLATE FIELD COATED WITH DAMP-PROOFING.

B. HYDROPHILIC WATERSTOP.

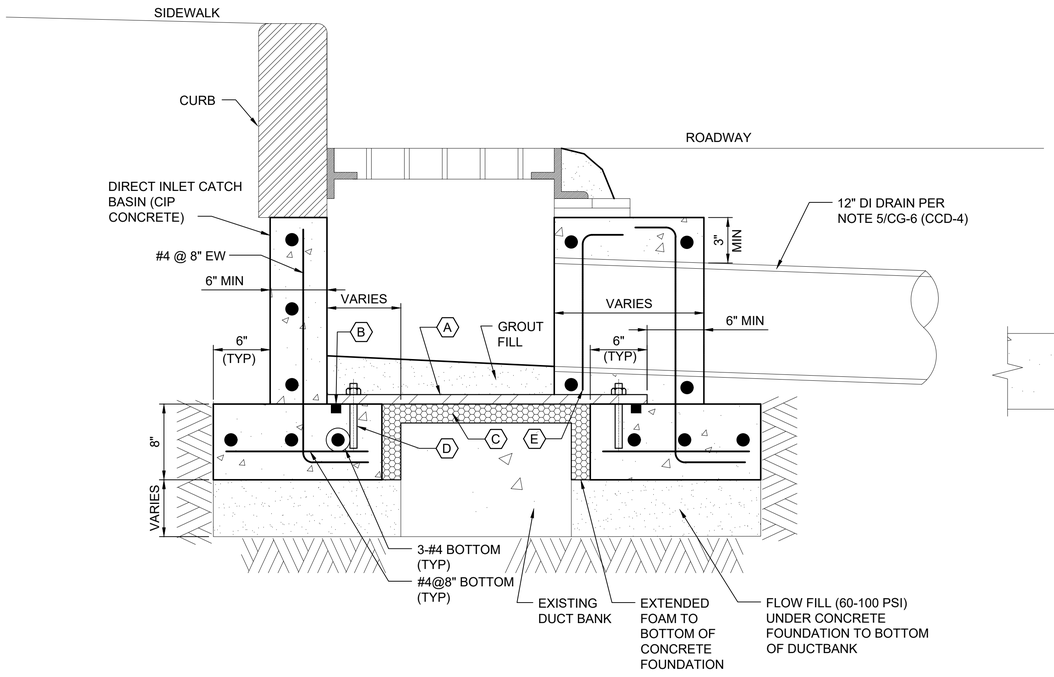
C. 2" CLOSED CELL FOAM BETWEEN DUCT BANK AND STEEL PLATE/CONCRETE FOUNDATION.

D. 1/2" DIA S.S. ANCHOR BOLT @ 12" WITH 5" EMBEDMENT, TYP OF 9.

E. VERTICAL REINFORCEMENT ABOVE STEEL PLATE SHALL BE STOPPED AT THE STEEL PLATE WITH 2" CLEARANCE.

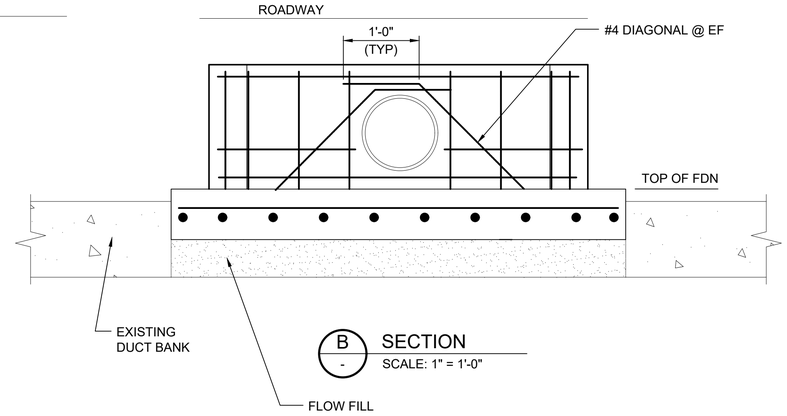
GENERAL SHEET NOTES

1. INSTALLED CATCH BASIN GRATE ASSEMBLY PER STANDARD DETAILS.
2. THE POSITION OF CURB AND UTILITES WILL VARY FROM THOSE DEPICTED IN THIS DETAIL. CONTRACTOR SHALL ADAPT IN THE FIELD IN CONSULTATION WITH THE ENGINEER. ALTERNATE MATERIALS MAY BE DIRECTED TO BE USED IN PLACE OF CIP CONCRETE COMPONENTS, SUCH AS PRE-CAST MANHOLE BLOCK FOR WALL SECTIONS OR LARGER STEEL PLATE AS FOOTING.



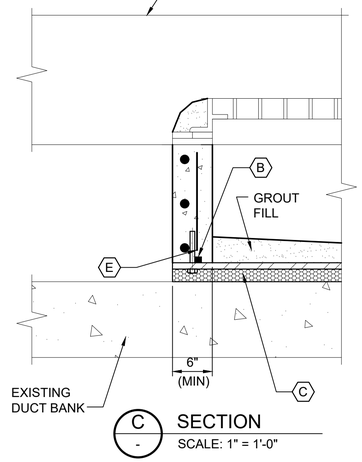
A - SECTION

SCALE: 1 1/2" = 1'-0"



B - SECTION

SCALE: 1" = 1'-0"



C - SECTION

SCALE: 1" = 1'-0"

CONFORMED

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CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	PR			
Checked by	CK	No.	Description	Date
Approved by	EO	REVISIONS		

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

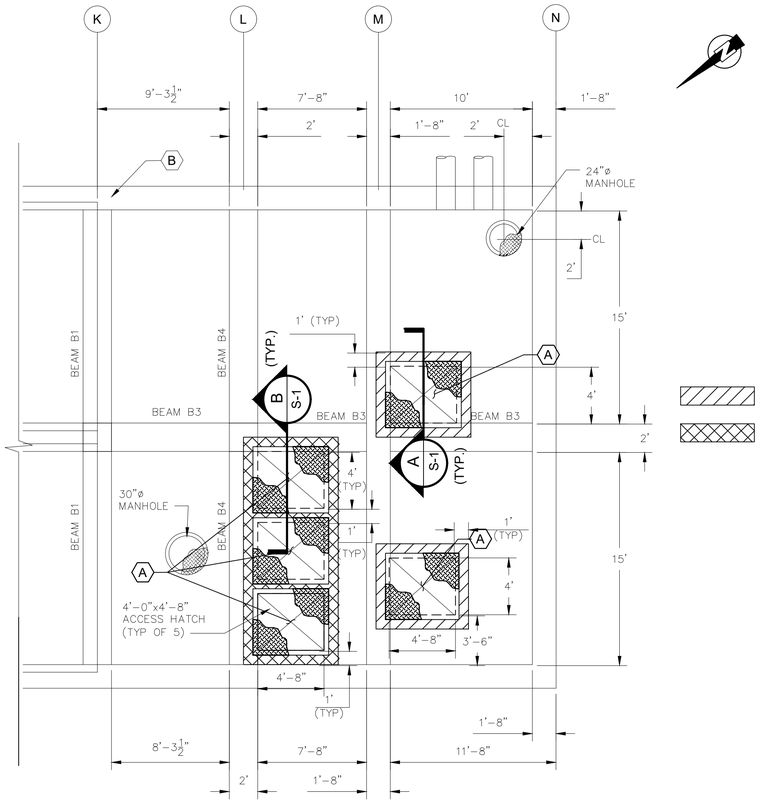
Drawing: CIVIL GENERAL DETAILS - 9 OF 9

Sheet: CG-9

File No.: 30724

CAD FILE: C:\Users\stuster\DC4ACDocs\Stantec Consulting\19513\0200_Morgan_Tanks_Complete_Sheet\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_CG-9.dwg LAYOUT: CG-9 BY: butts, seb

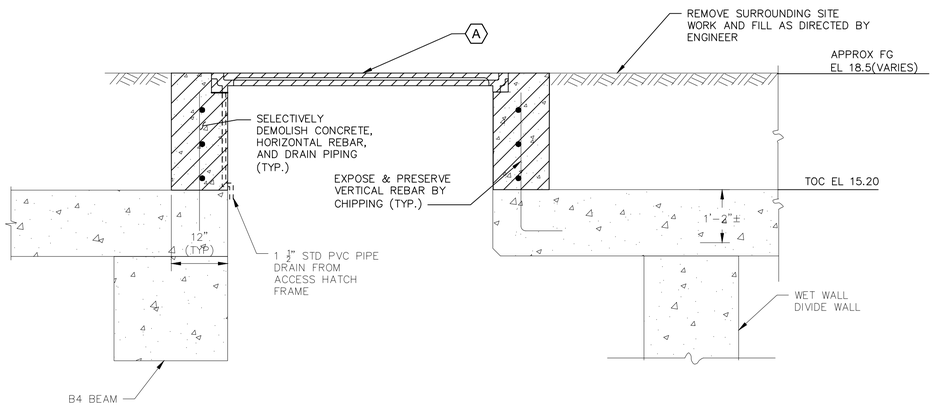
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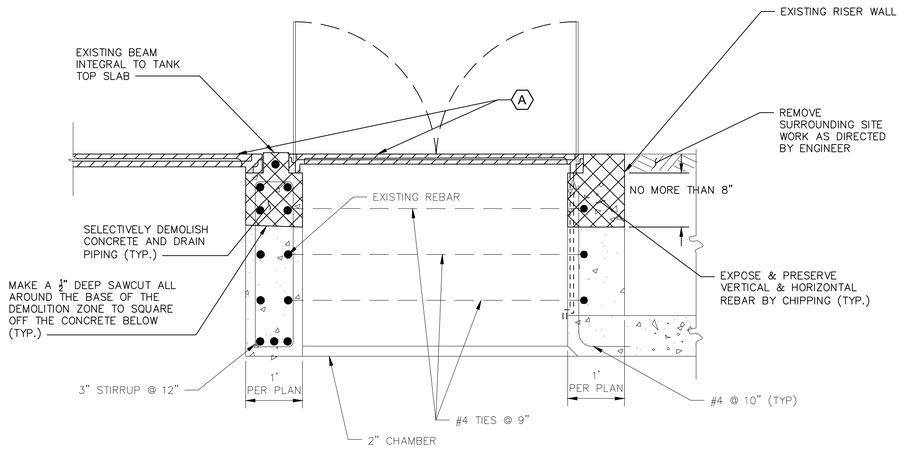
HATCH DEMOLITION PLAN
SCALE: 3/16" = 1'

STANDALONE HATCH - REMOVE FULL HEIGHT CONCRETE RISER

ADJOINING HATCHES - REMOVE TOP OF CONCRETE BEAM AND RISER



STANDALONE HATCH DEMOLITION SECTION
A / S-1
SCALE: 3/4" = 1'



ADJOINING HATCHES DEMOLITION SECTION
B / S-1
SCALE: 3/4" = 1'

GENERAL SHEET NOTES

1. GRIDLINES ARE TO EXTERIOR FACE OF WALL FOR EXTERIOR WALLS, CENTERLINE OF WALLS FOR INTERIOR WALLS, AND CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
2. MAINTAIN THE SYSTEM FUNCTIONALLY AND PROTECT THE EXISTING EQUIPMENT DURING CONSTRUCTION.

SHEET KEYNOTES

A. REMOVE AND DISPOSE OF EXISTING ALUMINUM HATCH (QTY 5). REMOVE AND SALVAGE DETACHABLE SECURITY AND SAFETY COMPONENTS AND FURNISH TO OWNER.

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CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	SEE THE DWG				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	RP				
Drawn by	RP				
Checked by	JM	No.	Description	Date	
Approved by	EO	REVISIONS			

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL GENERAL PARKING LOT 6 TANK HATCH DEMOLITION

Sheet: CG-10

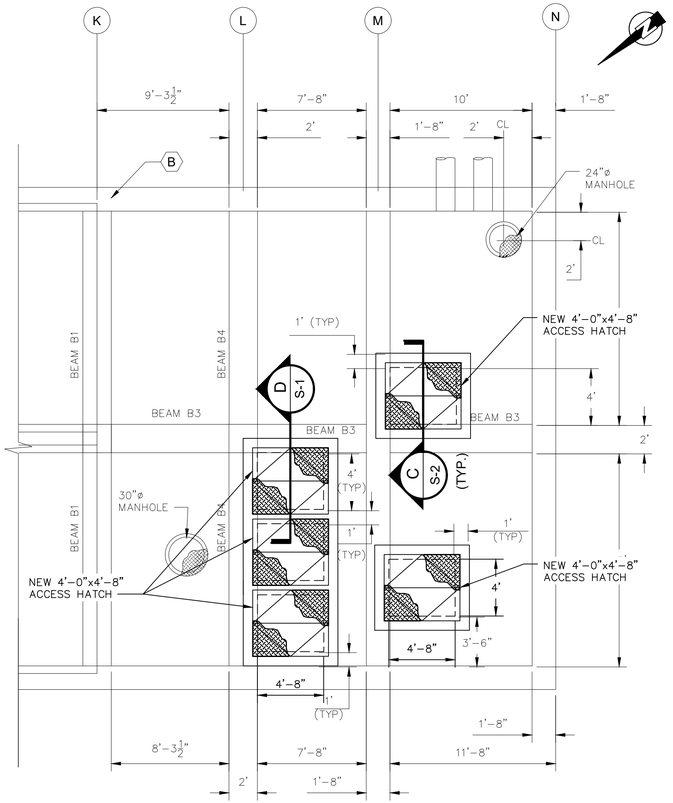
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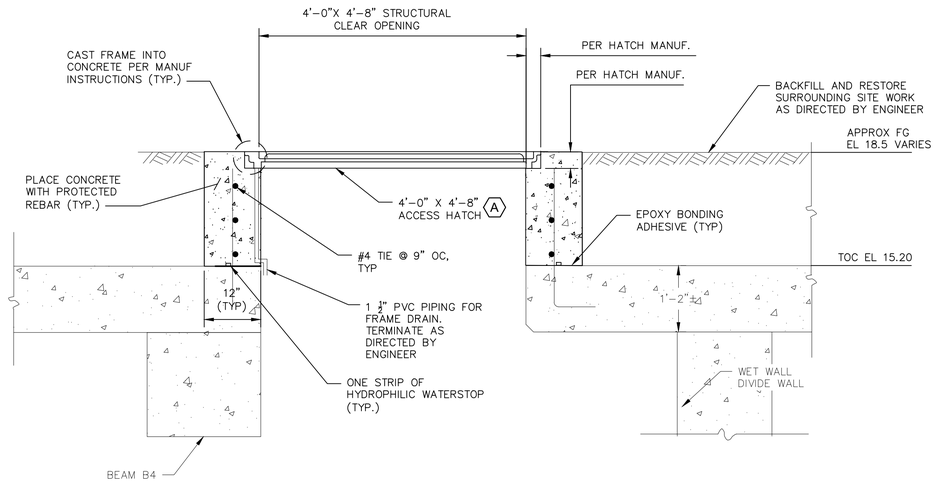
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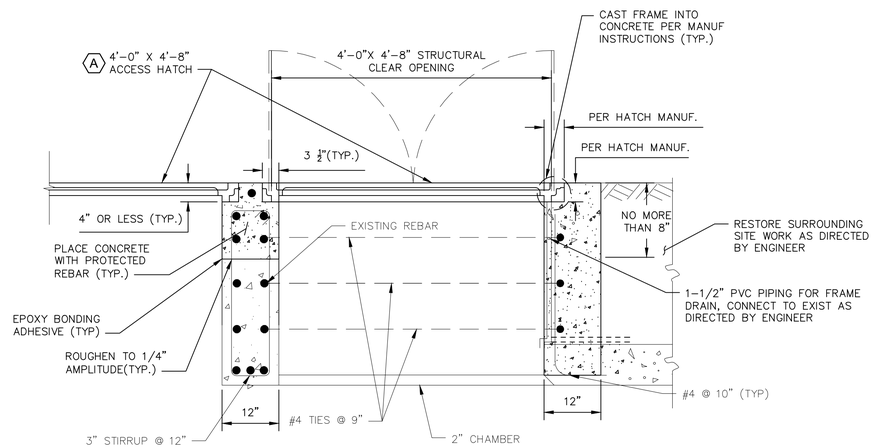
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HATCH RESTORATION PLAN
SCALE: 3/16" = 1'



STANDALONE HATCH RESTORATION SECTION
C S-2
SCALE: 3/4" = 1'



ADJOINING HATCHES RESTORATION SECTION
D S-2
SCALE: 3/4" = 1'

GENERAL SHEET NOTES

1. GRIDLINES ARE TO EXTERIOR FACE OF WALL FOR EXTERIOR WALLS, CENTERLINE OF WALLS FOR INTERIOR WALLS, AND CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
2. ALL CONCRETE TO BE MASSACHUSETTS DOT (5000PSI CLASS CEMENT CONCRETE),
3. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318. TOLERANCES SHALL BE IN ACCORDANCE WITH ACI 117.
4. COVER FOR REINFORCING STEEL 2" CLEAR.
5. ANY STEEL REPLACED SHALL BE NEW REINFORCING STEEL (NON–EPOXY COATED) DOMESTIC DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.
6. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE INDICATED, SHALL BE IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE(CRSI) MANUAL OF STANDARD PRACTICE.
7. CONTRACTOR SHALL NOT CHAMFER EXPOSED CORNERS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. SLAB FINISH (PER ACI301): CONTRACTOR TO PROVIDE A FLOAT FINISH TO ALL HORIZONTAL SURFACES. ALL EXTERIOR EXPOSED HORIZONTAL SURFACES SHALL RECEIVE A NON–SLIP BROOM FINISH.
9. MAINTAIN THE SYSTEM FUNCTIONALLY AND PROTECT THE EXISTING EQUIPMENT DURING CONSTRUCTION.

SHEET KEYNOTES

A. INSTALL NEW STEEL ACCESS HATCH (HL–93 LOADING) QTY 5. SEE SPEC FOR DETAILS. THE NOMINAL DIMENSIONS LISTED ARE THE MINIMUM CLEAR OPENING REQUIRED.

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	NOT TO SCALE				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	RP				
Drawn by	RP				
Checked by	JM	No.	Description	Date	
Approved by	EO	REVISIONS			

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL GENERAL PARKING LOT 6 TANK HATCH REPLACEMENT

Sheet: CG-11

File No.: 30724

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Plot date: 12/15/2025 5:47:48 PM

GENERAL SHEET NOTES

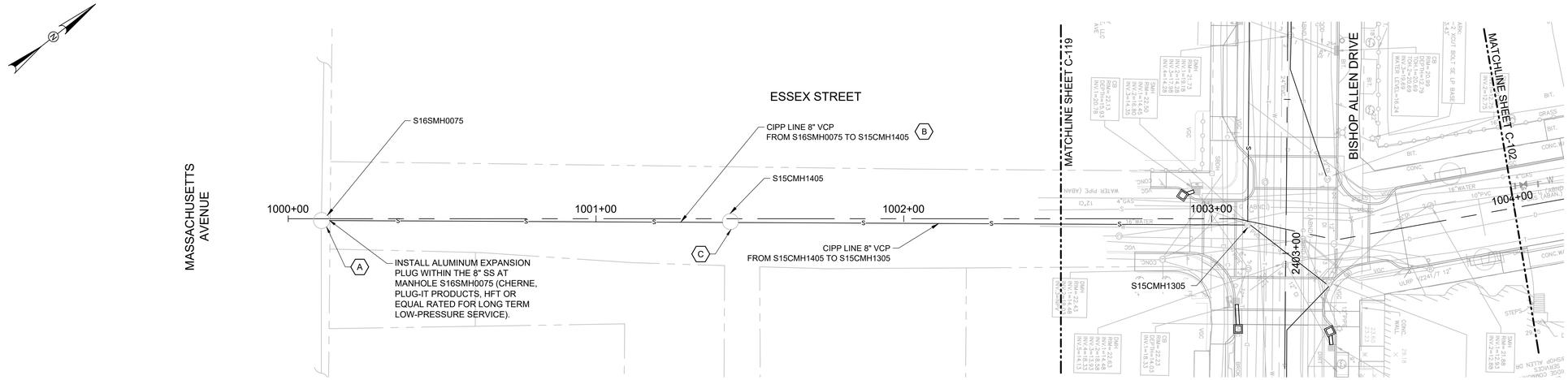
1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.

SHEET KEYNOTES

A. INTRUDING UTILITY AT EXIST SMH, SEE U SHEETS

B. PRIOR TO CIPP LINING CONTRACTOR SHALL CCTV INSPECT FOR ACTIVE SERVICES AND NOTIFY ENGINEER OF FINDINGS AND AWAIT DIRECTION ON WHETHER TO ABANDON THIS SEGMENT INSTEAD.

C. LINE INTERIOR OF EXISTING BRICK MANHOLE



PLAN
SCALE: 1"=20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED
PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

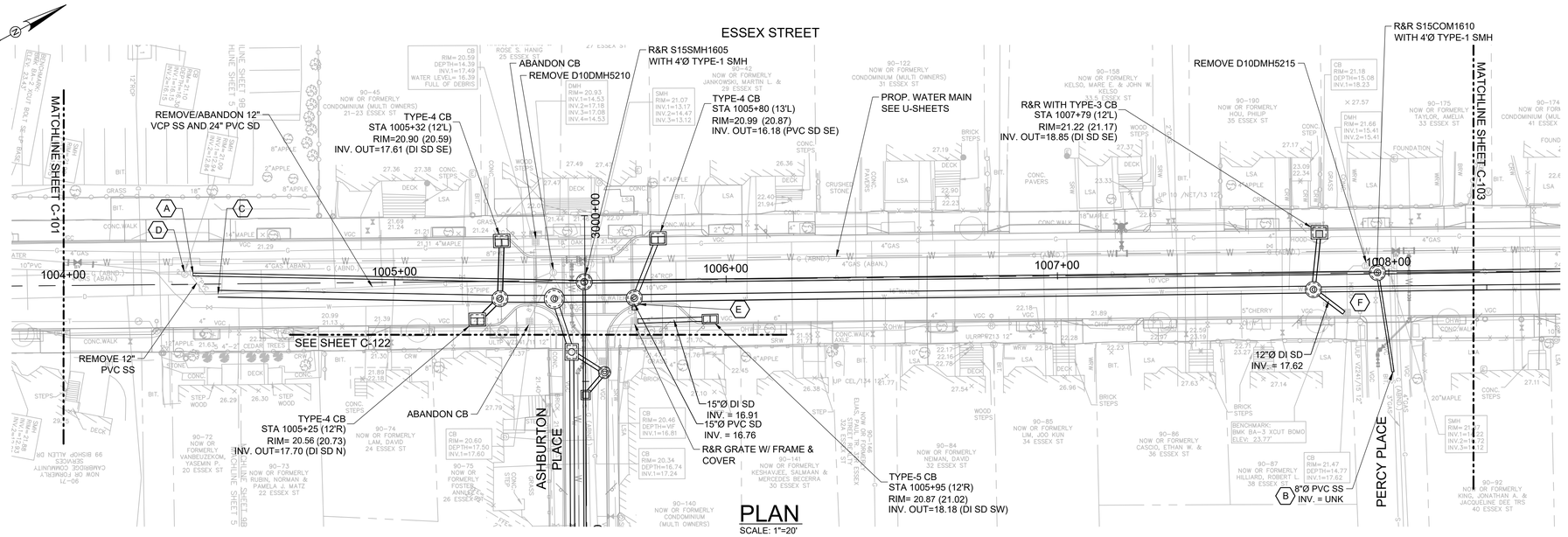
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: CIVIL - PLAN
ESSEX ST STA. 1000+00 TO STA. 1004+00

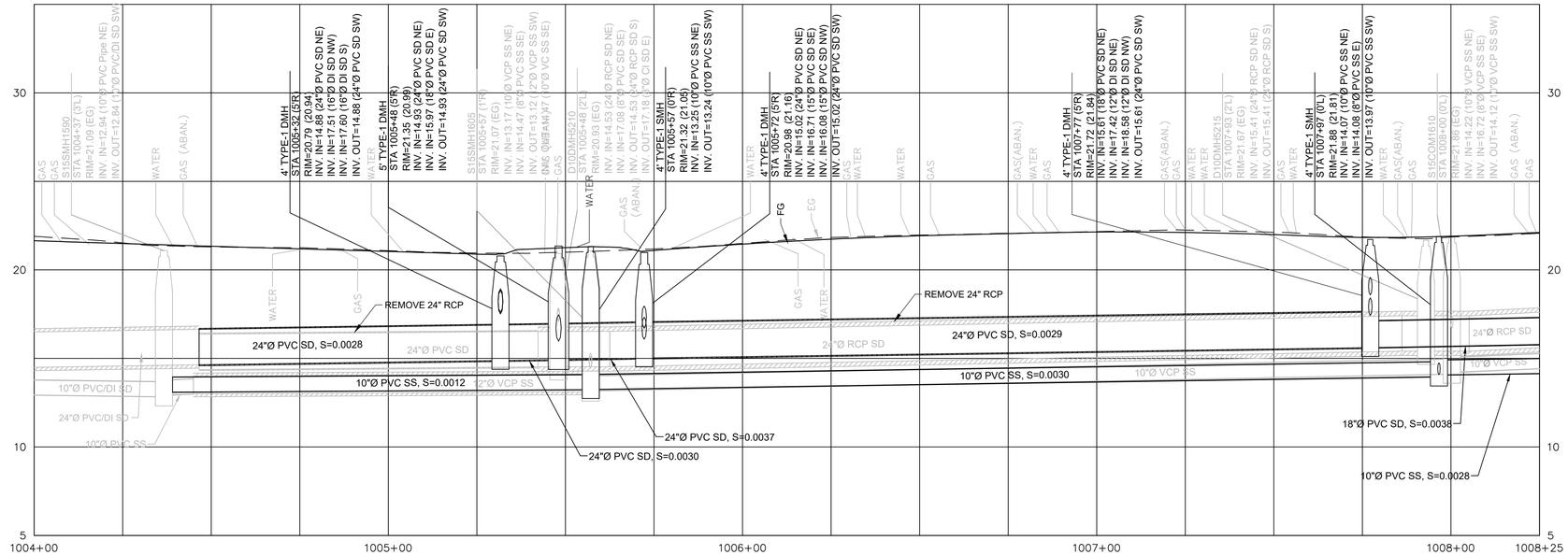
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PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. CIPP LINING WITHIN 300' OF 50 ESSEX STREET SHALL NOT BE PERFORMED DURING THE BUILDING'S NORMAL OCCUPANCY HOURS (SENSITIVE ABUTTER).

SHEET KEYNOTES

A. CONNECT PROPOSED 10" PVC SS TO 10" PVC SS AT OUTSIDE FACE OF SMH.
B. CONNECT PROPOSED 8" PVC SS TO EXISTING 8" SS.
C. CONNECT PROP. 24" PVC SD TO 24" PVC SD.
D. LINE INTERIOR OF EXISTING BRICK MANHOLE
E. POSITION MANHOLE COVER OFF OF CURB ALIGNMENT (SEE ROADWAY SHEETS)
F. BULKHEAD ABANDONED LATERAL AS DIRECTED BY ENGINEER

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

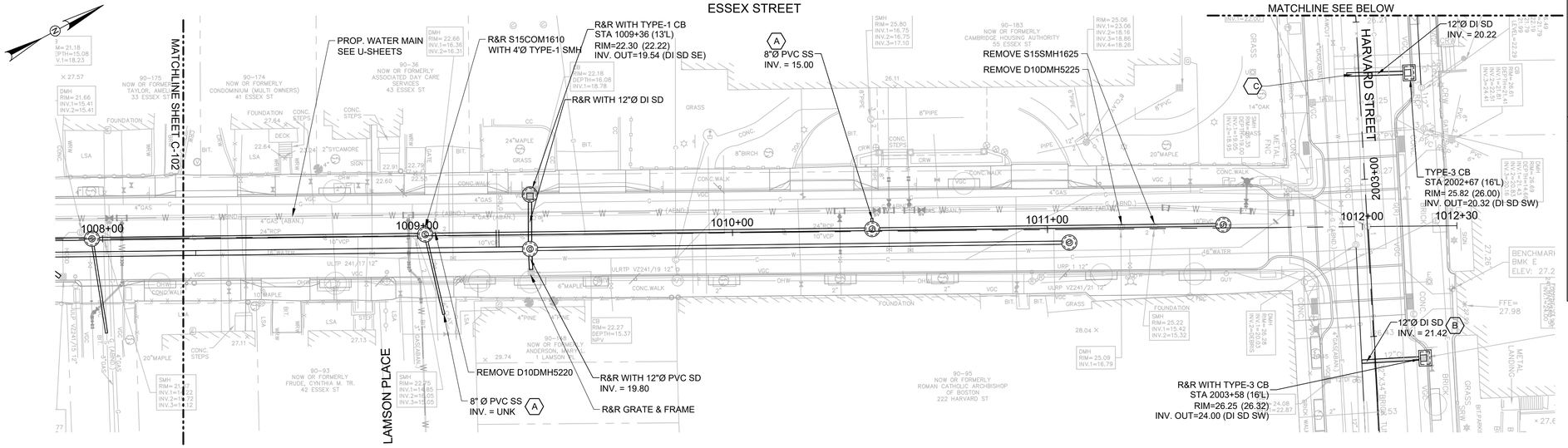
Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN & PROFILE ESSEX ST STA. 1004+00 TO STA. 1008+25

Sheet: C-102
File No.: 30724

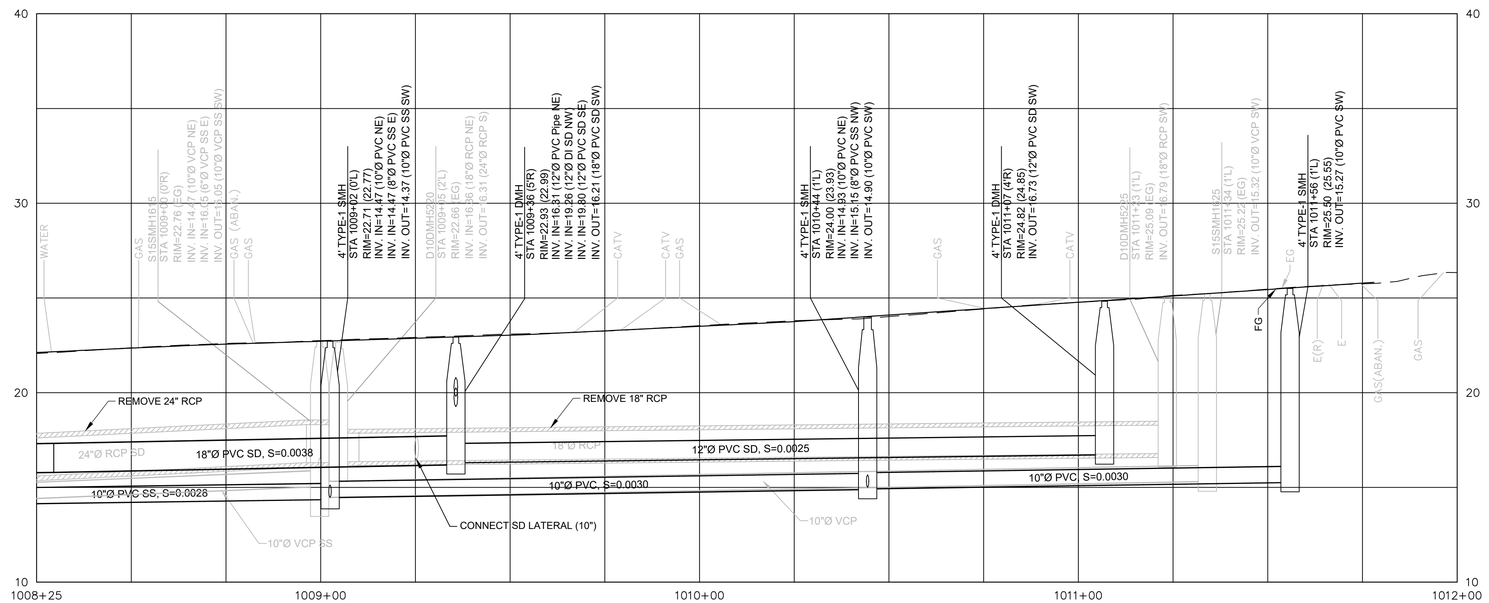
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Plot date: 12/15/2025 5:00:29 PM



PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

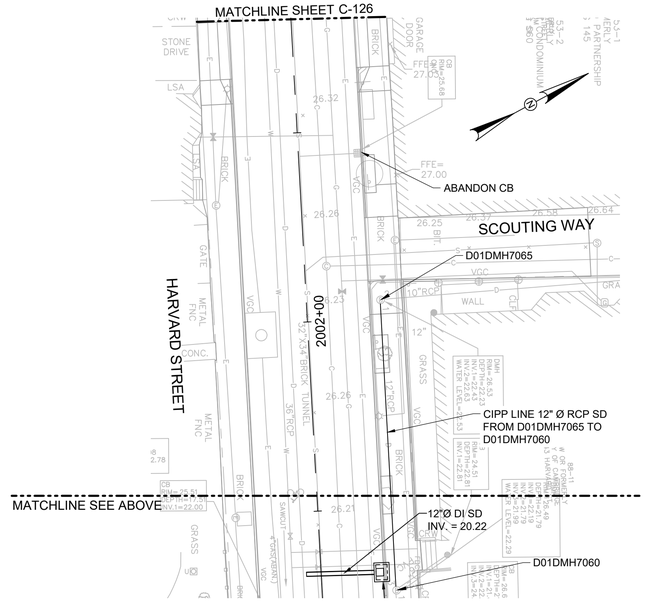
1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO CG-6 DETAIL 18-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. CIPP LINING WITHIN 300' OF 50 ESSEX STREET AND 243 HARVARD STREET SHALL BE COMPLETED DURING EVENINGS OR WEEKENDS.

SHEET KEYNOTES

A. CONNECT PROP. 8" PVC SS TO EXISTING 8" VC SS.

B. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.

C. INSTALL SD LATERAL THROUGH CROWN OF BRICK SEWER AND CONNECT TO RCP WITH MASONRY CONNECTION (SEE CIVIL DETAIL)



PLAN
SCALE: 1"=20'

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

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Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

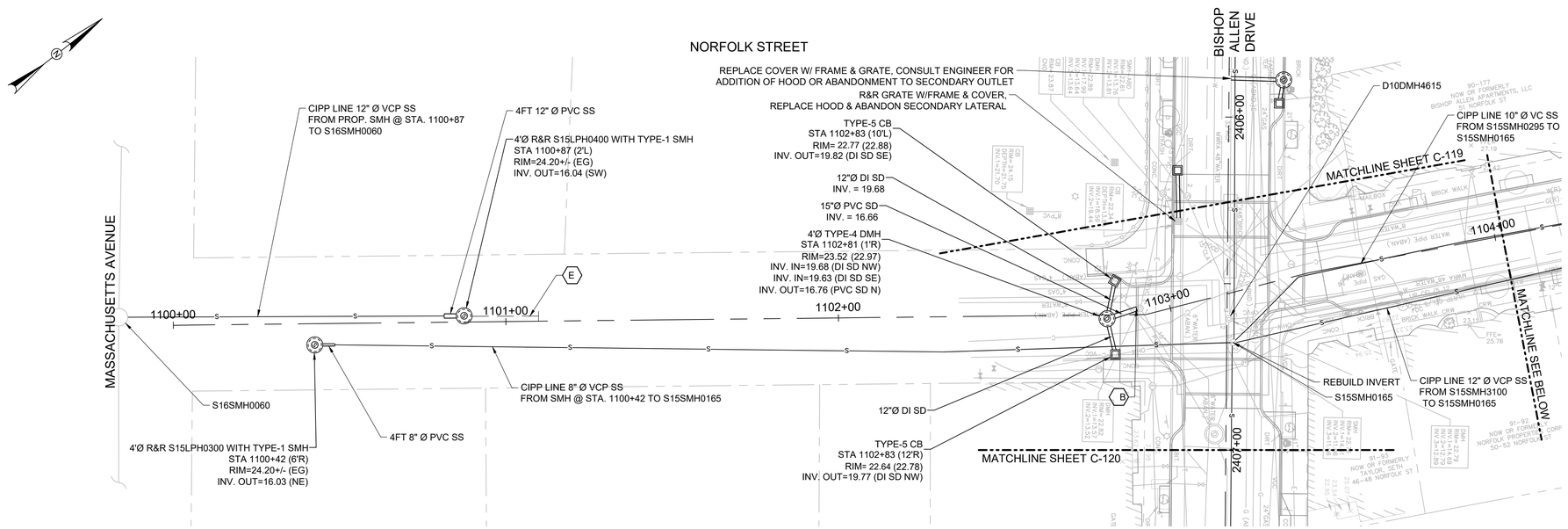
Drawing: CIVIL- PLAN & PROFILE
ESSEX STREET STA. 1008+25 TO 1012+00

Sheet: C-103

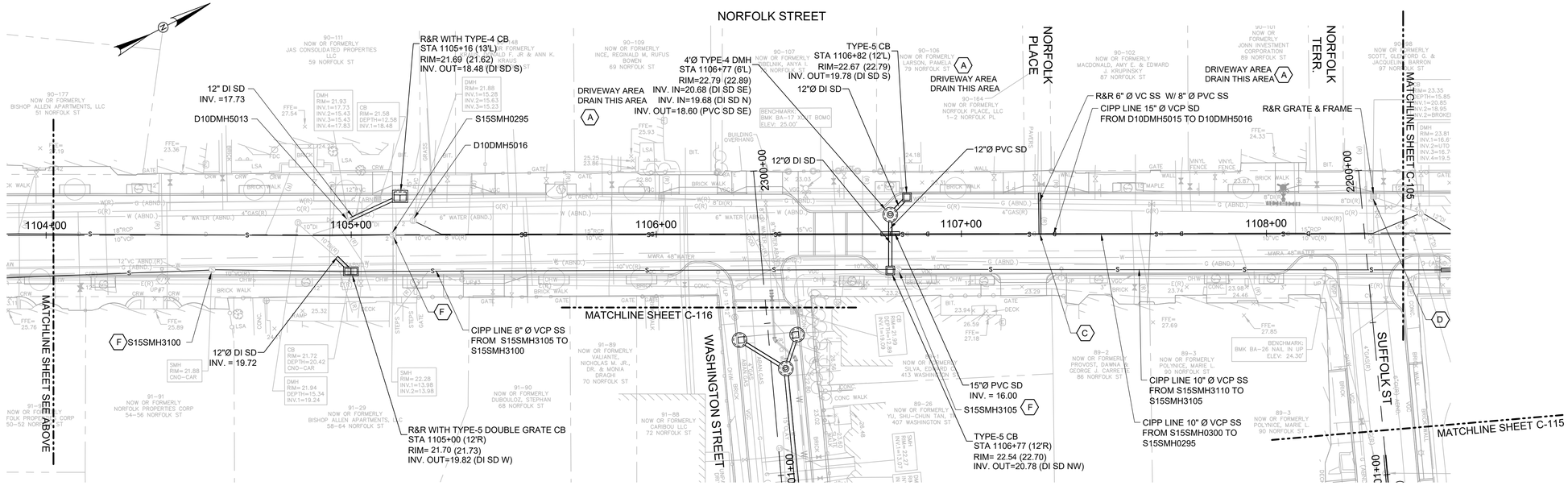
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Plot date - 12/15/2025 5:02:37 PM



PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

SCALE: 1" = 20' — 0 20 40 60 — SCALE IN FEET

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-20 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. NO SURVEY PERFORMED SOUTH OF BISHOP ALLEN DR. CONTRACTOR SHALL DIGSAFE & TEST PIT TO CONFIRM PROP. MH LOCATIONS
4. EST. 2' DEPTH OF COVER ABOVE 48" MWRA WATER THIS SHEET

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL PRIVATE INFLOW SOURCES AND REDIRECT TO SD AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
69 NORFOLK ST	UNKNOWN	NOT TESTED	AREA DRAIN
1-2 NORFOLK TER	UNKNOWN	NOT TESTED	AREA DRAIN
1-3 NORFOLK PL	UNKNOWN	NOT TESTED	AREA DRAIN

B. CONNECT 15" PVC SD TO EXIST DMH

C. CONNECT 8" PVC SS TO EXIST 15" VC SS W/ FULL BODY TEE.

D. BULKHEAD ABANDONED LATERAL AS DIRECTED BY ENGINEER

E. SUSPECTED/INACTIVE SEWER. OBSERVE FOR FLOW & ABANDON IF DIRECTED BY ENGINEER.

F. LINE INTERIOR OF EXISTING BRICK MANHOLE

CONFORMED

CAD FILE: C:\Users\dsutin\DOCACDDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WP\04_civil\sheet_files\Package_1\30200_C-104.dwg LAYOUT: C-104 Norfolk BY: butts, seb

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COMMONWEALTH OF MASSACHUSETTS — CHRISTIAN E. OLANDER — CIVIL — No. 50676 — REGISTERED PROFESSIONAL ENGINEER

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Date	APRIL 2026			
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Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS — THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

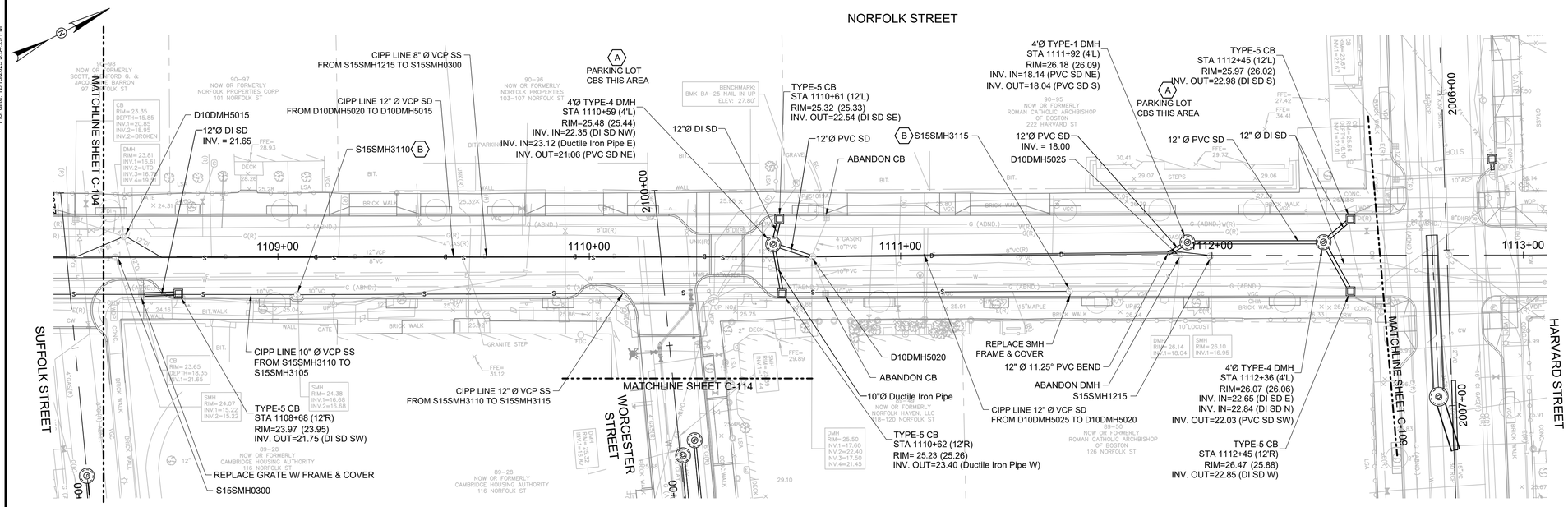
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL - PLAN NORFOLK STREET STA. 1100+00 TO STA 1108+60

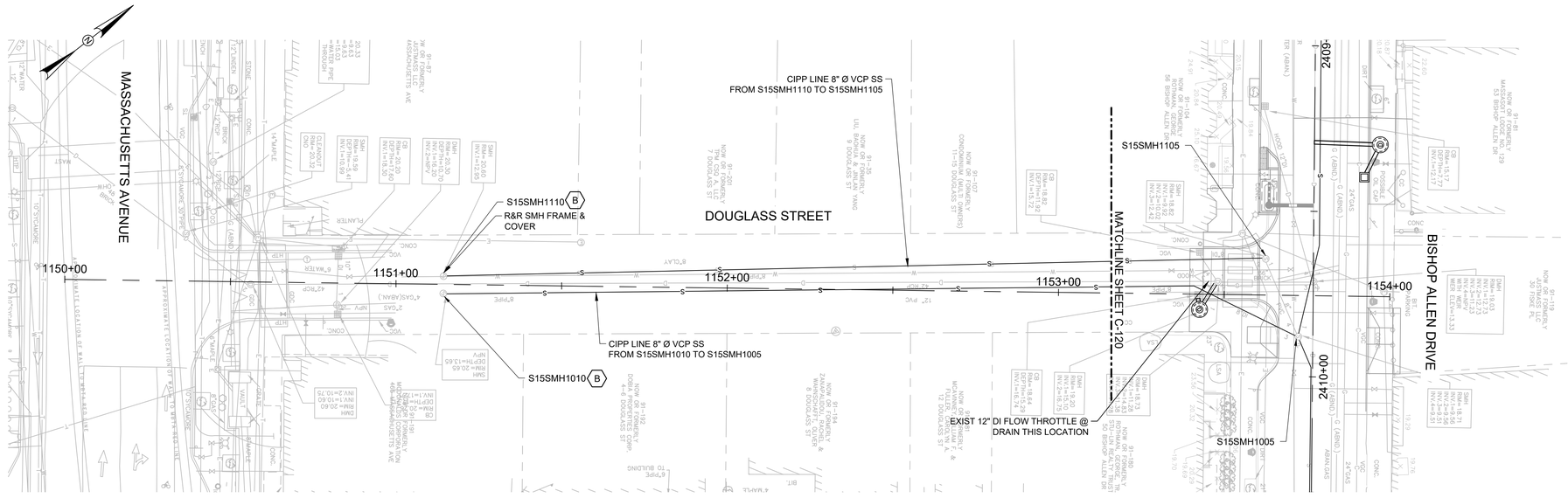
Sheet: C-104

File No.: 30724

Plot date: 12/15/2025 5:04:29 PM



PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. EST. 2' DEPTH OF COVER ABOVE 48" MWRA WATER SOUTH OF STA 1112+00.

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL PRIVATE INFLOW SOURCES AND REDIRECT TO SD AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
103-107 NORFOLK ST	MULTIPLE (SD)	NOT TESTED	PARKING LOT CB
135 NORFOLK ST	MULTIPLE (SD)	NOT TESTED	PARKING LOT CB

B. LINE INTERIOR OF EXISTING BRICK MANHOLE

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

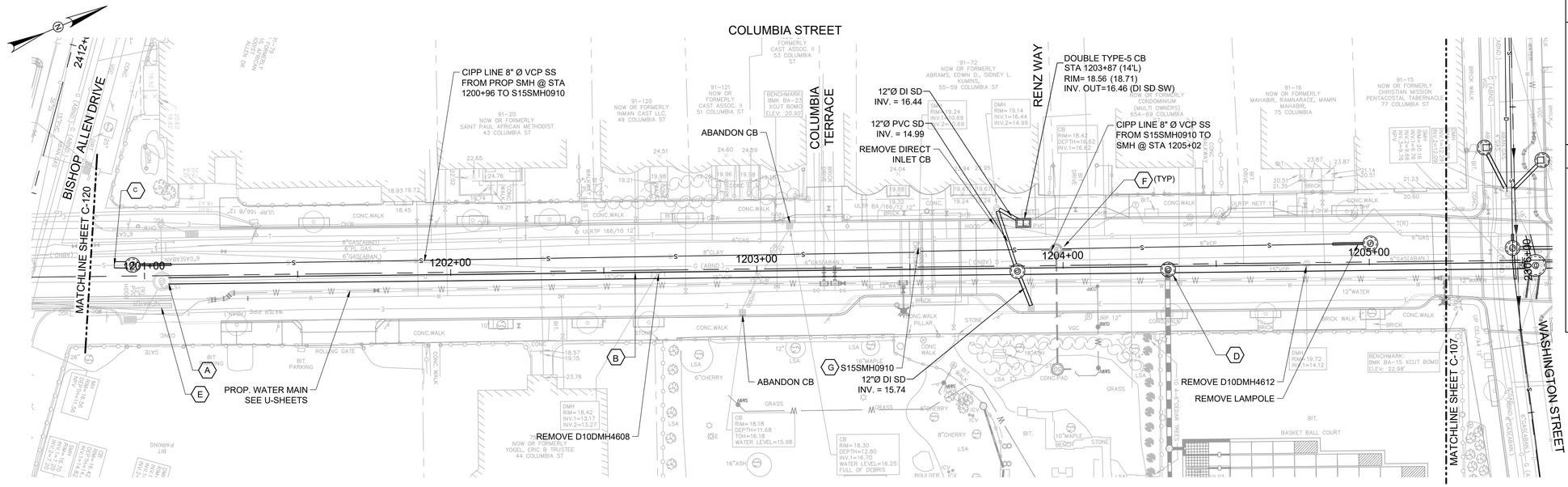
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL PLAN - NORFOLK ST STA. 1108+60 TO STA. 1113+00 DOUGLASS STREET STA. 1150+00 TO STA. 1154+00

Sheet: C-105

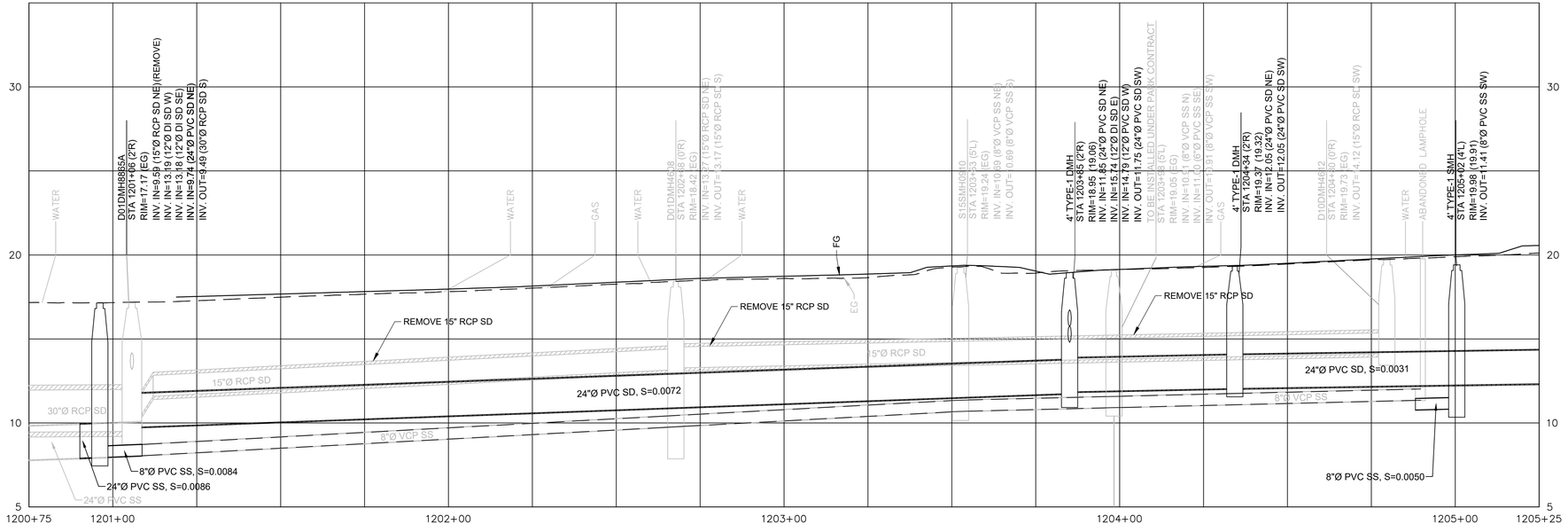
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PLAN

SCALE: 1"=20'



PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO CG-6 DETAIL 17-20 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.

SHEET KEYNOTES

- A. REMOVE BRICK & MORTAR CLOSURE WITHIN OVERSIZED PRE-CAST OPENING AROUND 15" RCP. CONNECT PROP. 24" PVC W/ WATERSTOP GROUTING RING.
- B. INTRUDING UTILITY AT EXIST. SD, SEE U SHEETS
- C. CONNECT EXIST AND PROP 24" PVC USING BELL & SPIGOT
- D. PROVIDE PRECAST OPENING IN MH FOR DRAIN LATERAL (REFER TO PROPOSED MORGAN PARK CONTRACT).
- E. CONDUITS DEPICTED IN EXISTING CONDITIONS ARE RECENTLY INSTALLED PIPES. REFER TO THE PORT - PL6 STORMWATER STORAGE TANK DRAWINGS.
- F. COORDINATE WORK SEQUENCE FOR INSTALLATION OF UTILITIES BY OTHERS AS DIRECTED BY OWNER (REFER TO PROPOSED MORGAN PARK CONTRACT)
- G. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

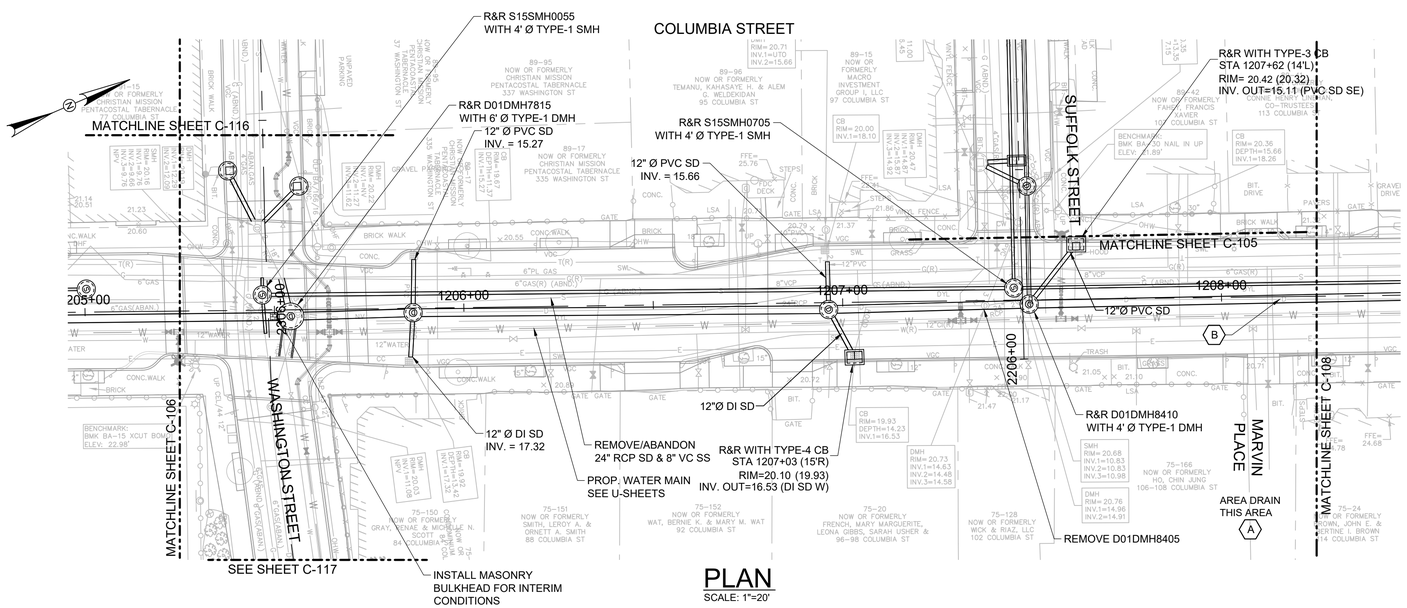
Drawing: CIVIL - PLAN & PROFILE COLUMBIA STREET STA. 1200+75 TO STA. 1205+25

Sheet: C-106

File No.: 30724

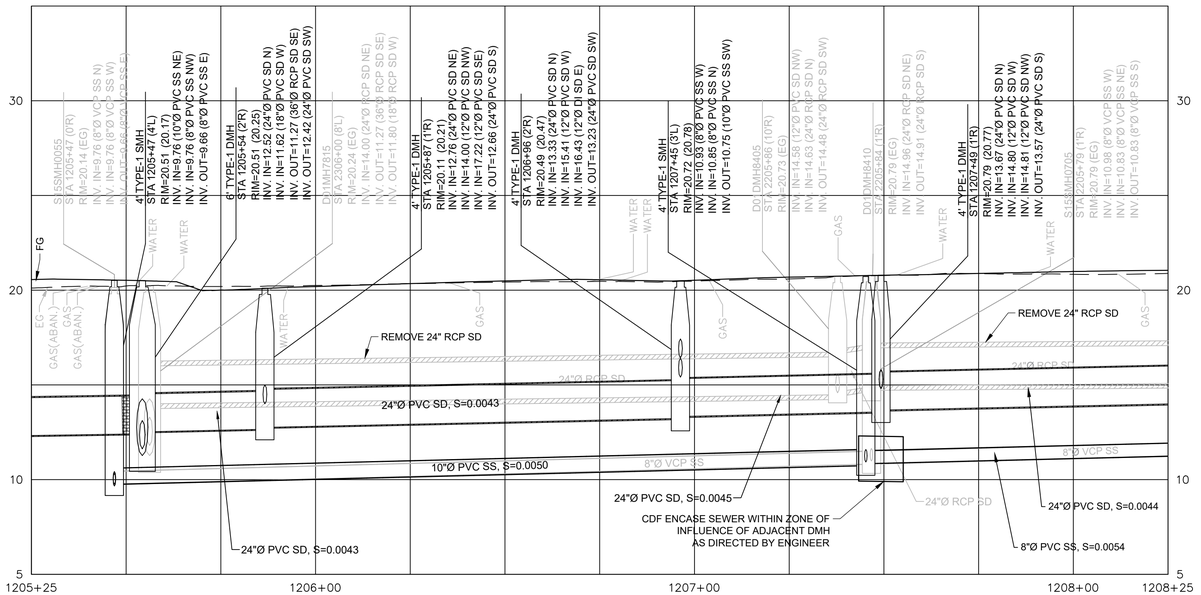
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Plot date: 12/15/2025 5:07:21 PM



PLAN

SCALE: 1"=20'



PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL PRIVATE INFLOW SOURCES AND REDIRECT TO SD AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
106 COLUMBIA ST	STA. 1208+14 (SD)	NOT TESTED	AREA DRAIN

B. CONTRACTOR TO INVESTIGATE POTENTIAL ILLICIT CONNECTIONS ON COLUMBIA STREET (APPROX. 16 LATERALS WASHINGTON TO HARVARD. REFER TO CCTV LOGS) AND REDIRECT TO SS AS REQUIRED (SEE SPECIFICATION SECTION 02535)

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

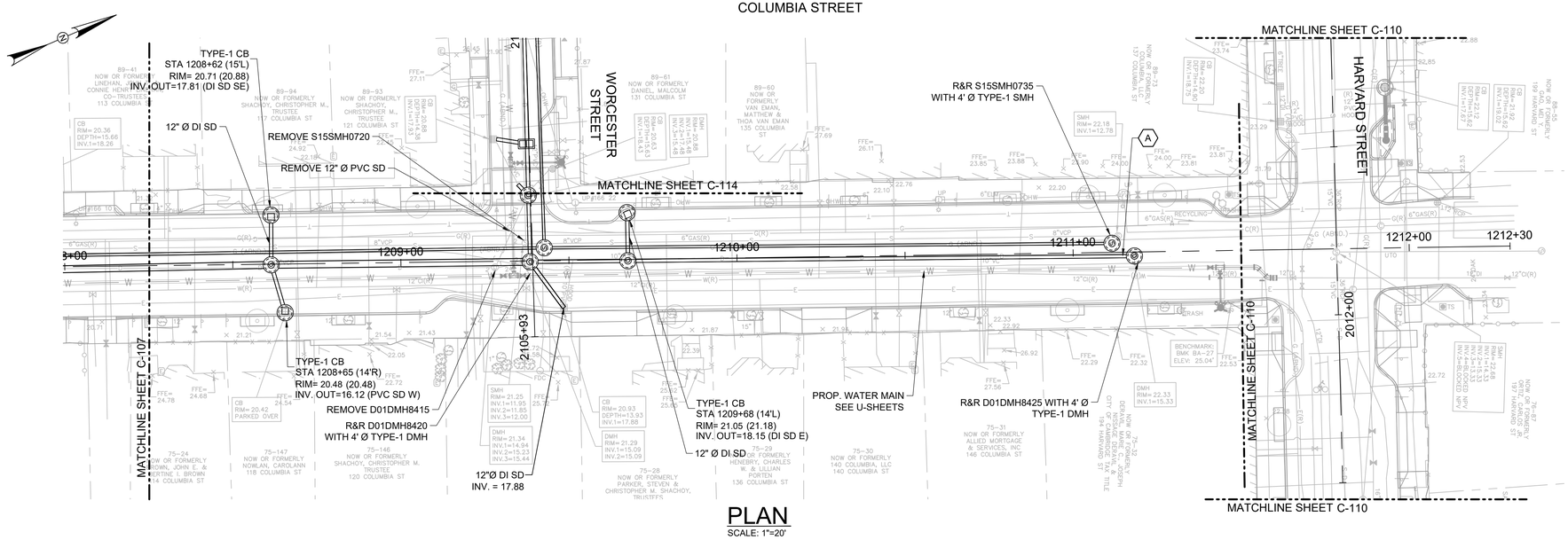
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

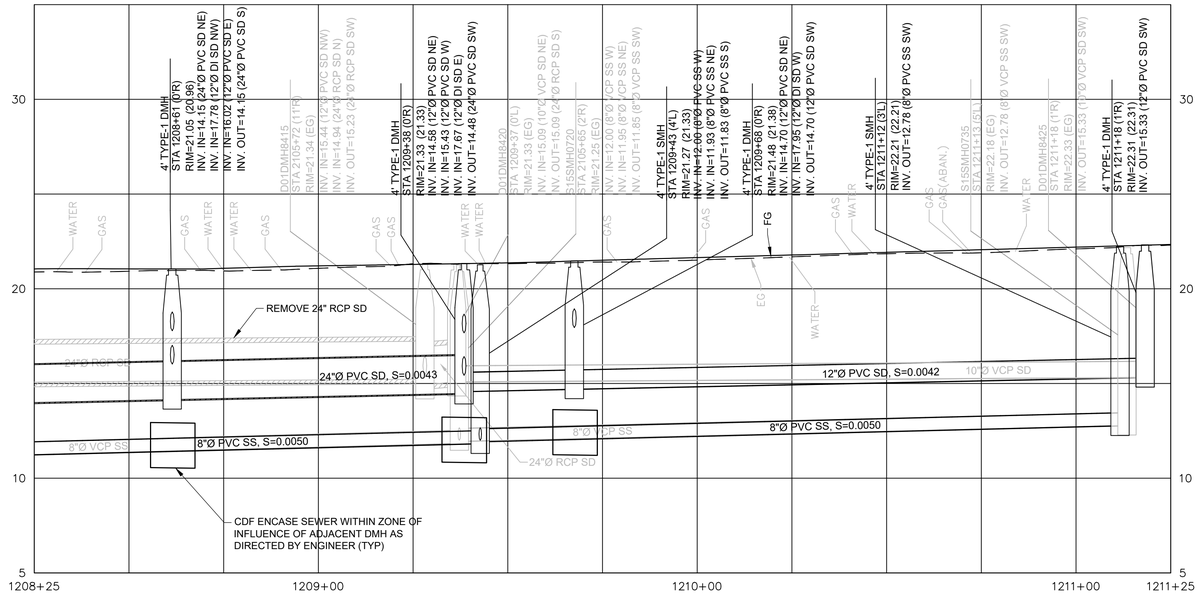
Drawing: CIVIL - PLAN & PROFILE COLUMBIA STREET STA. 1205+25 TO STA. 1208+25

Sheet: C-107

File No.: 30724

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PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL ILLICIT CONNECTIONS ON COLUMBIA STREET (APPROX. 16 LATERALS WASHINGTON TO HARVARD, REFER TO CCTV LOGS) AND REDIRECT TO SS AS REQUIRED (SEE SPECIFICATION SECTION 02535)

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

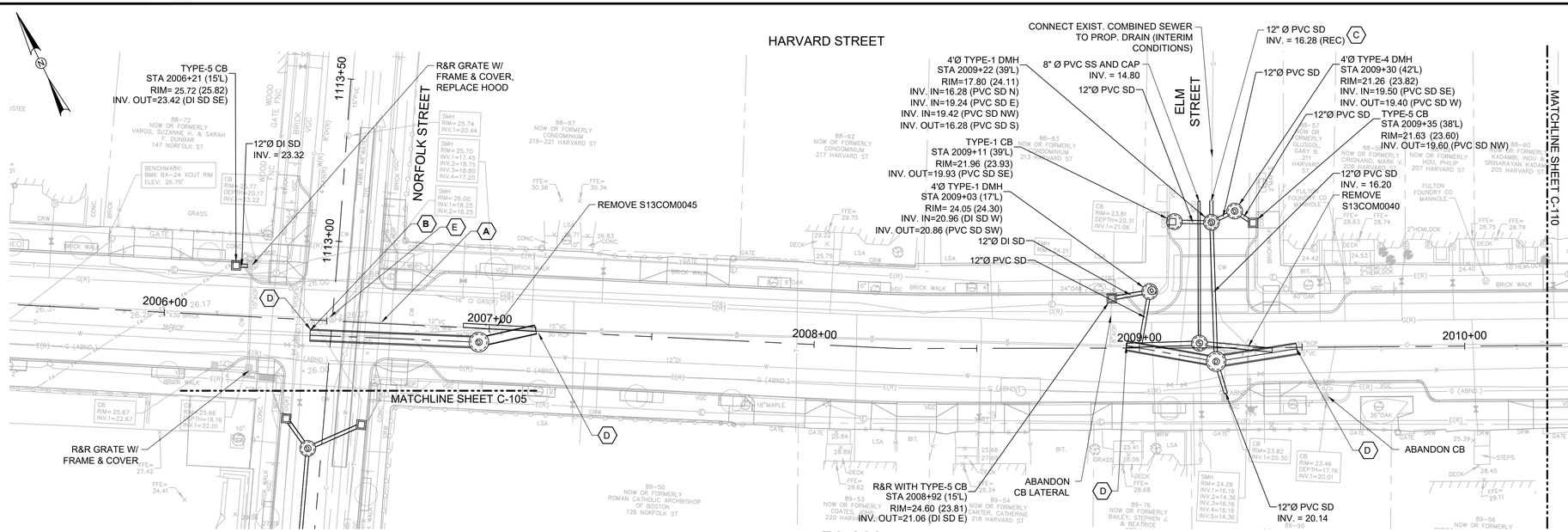
THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN & PROFILE COLUMBIA STREET STA. 1208+25 TO STA. 1211+25

Sheet: C-108
File No.: 30724

Plot date - 12/15/2025 5:08:49 PM
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Plot date: 12/15/2025 5:09:58 PM



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 15-17 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES
3. SEWER, DRAIN & WATER DEPICTED IN EXISTING CONDITIONS INCLUDES RECENTLY INSTALLED WORK SINCE SURVEY WAS CONDUCTED. REFER TO HARVARD STREET WATER MAIN IMPROVEMENT DRAWINGS.
4. EXIST. BRICK AND VCP SS ALONG HARVARD IS CIPP LINED (HARVARD STREET WATER MAIN IMPROVEMENTS CONTRACT).

SHEET KEYNOTES

A. INTRUDING UTILITY ON EXIST. 36" RCP SD, SEE U SHEETS.
B. INTRUDING UTILITY ON EXIST. 30" RCP SD, SEE U SHEETS.
C. CONNECT PROPOSED PVC SD TO EXISTING PIPE.
D. CONNECT PROPOSED RCP SD TO EXISTING PIPE WITH TYPE-1 FIELD CLOSURE (OVER/UNDER VARIANT).
E. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

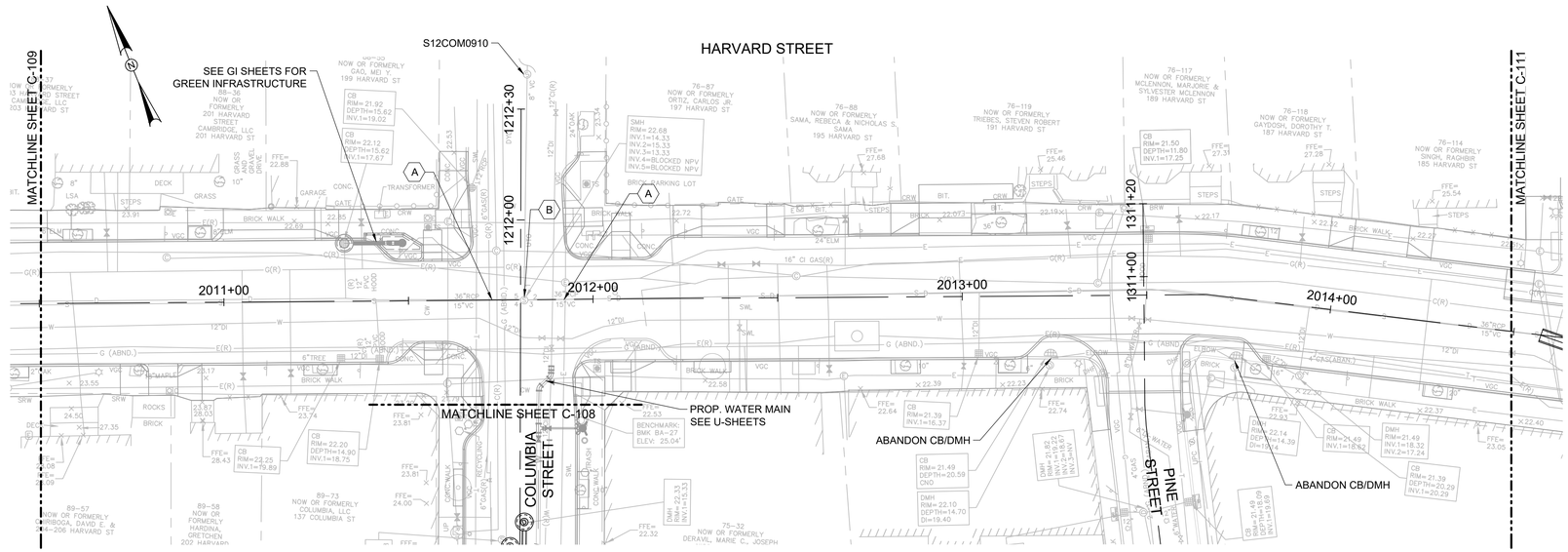
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN & PROFILE HARVARD STREET STA. 2006+00 TO STA. 2010+25

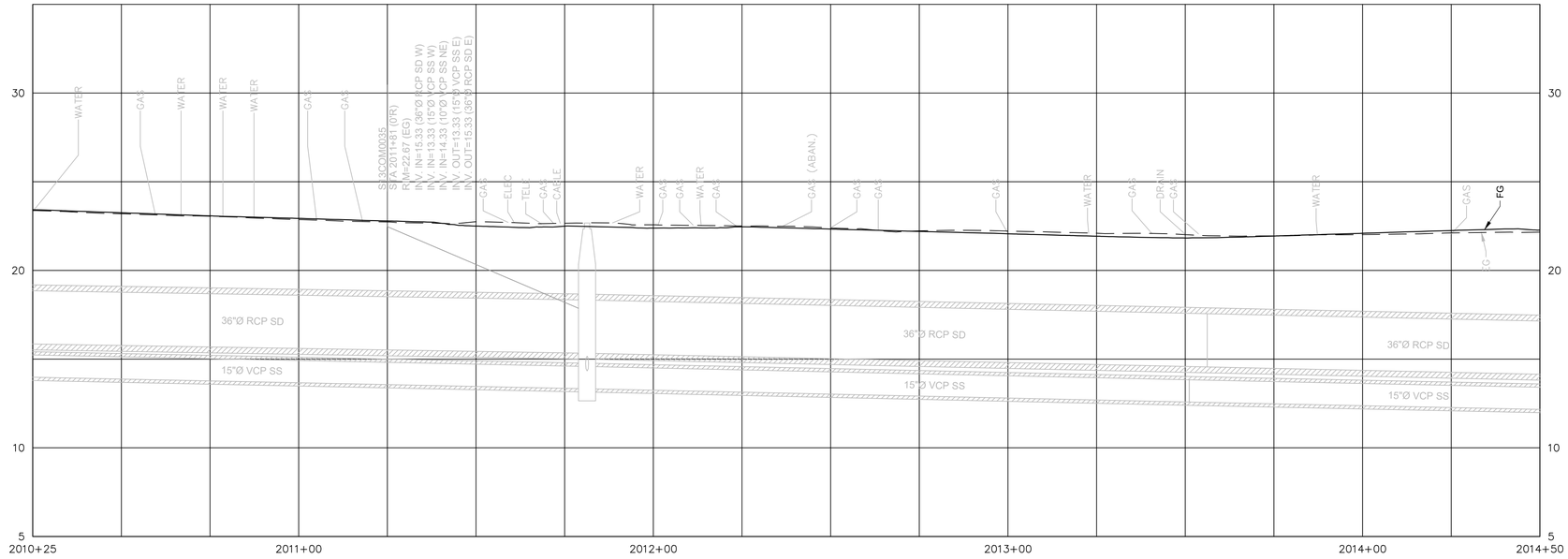
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File No.: 30724

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Plot date: 12/15/2025 6:01:30 PM



PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 15-17 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES
3. SEWER, DRAIN & WATER DEPICTED IN EXISTING CONDITIONS INCLUDES RECENTLY INSTALLED WORK SINCE SURVEY WAS CONDUCTED. REFER TO HARVARD STREET WATER MAIN IMPROVEMENTS DRAWINGS.
4. EXIST. BRICK AND VCP SS ALONG HARVARD IS CIPP LINED (HARVARD STREET WATER MAIN IMPROVEMENTS CONTRACT).

SHEET KEYNOTES

A. REPAIR HOLE FORM INTRUDING UTILITY AT EXIST. 36" RCP SD, SEE U SHEETS.

B. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

CONFORMED

CAD FILE: C:\Users\sbetts\DC\ACCDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-110.dwg LAYOUT: C-110 HarvardSt BY: betts, seb

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Bright People. Right Solutions.

Stantec

CHRISTIAN E OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

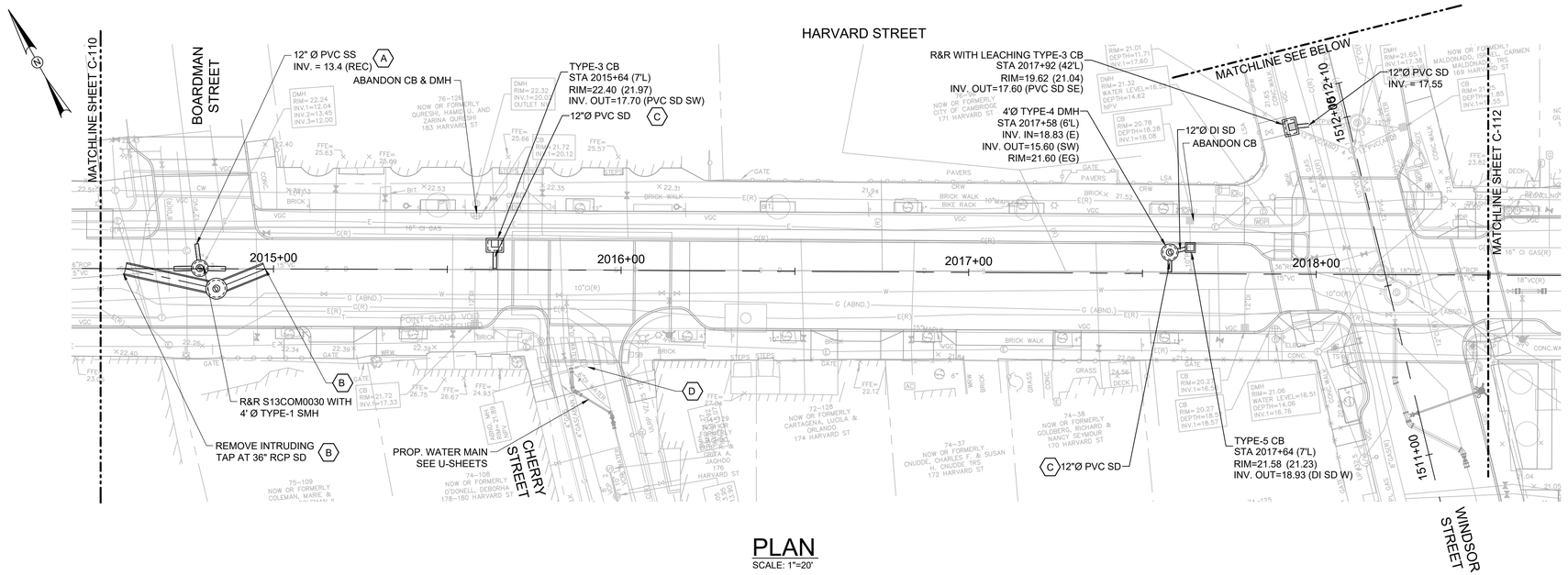
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL - PLAN & PROFILE HARVARD STREET STA. 2010+25 TO STA. 2014+50

Sheet: C-110

File No.: 30724



PLAN
SCALE: 1"=20'

PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 15-17 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. SEWER, DRAIN & WATER DEPICTED IN EXISTING CONDITIONS INCLUDES RECENTLY INSTALLED WORK SINCE SURVEY WAS CONDUCTED (TYP). REFER TO HARVARD STREET WATER MAIN IMPROVEMENTS DRAWINGS.
4. EXIST. BRICK AND VCP SS ALONG HARVARD IS CIPP LINED (HARVARD STREET WATER MAIN IMPROVEMENTS CONTRACT).

SHEET KEYNOTES

- A. CONNECT PROPOSED PVC SS TO EXISTING.
- B. CONNECT PROPOSED RCP SD TO EXISTING PIPE WITH TYPE-1 FIELD CLOSURE (OVER/UNDER VARIANT).
- C. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.
- D. VERIFY WITH UTILITY OWNER TO CONFIRM INACTIVE, AND ABANDON STRUCTURE AS DIRECTED BY THE ENGINEER.

PLAN
SCALE: 1"=20'

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

CONFORMED

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CHRISTIAN E. OLANDER
CIVIL
No. 50676
COMMONWEALTH OF MASSACHUSETTS
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL - PLAN & PROFILE HARVARD STREET STA. 2014+50 TO STA. 2018+50

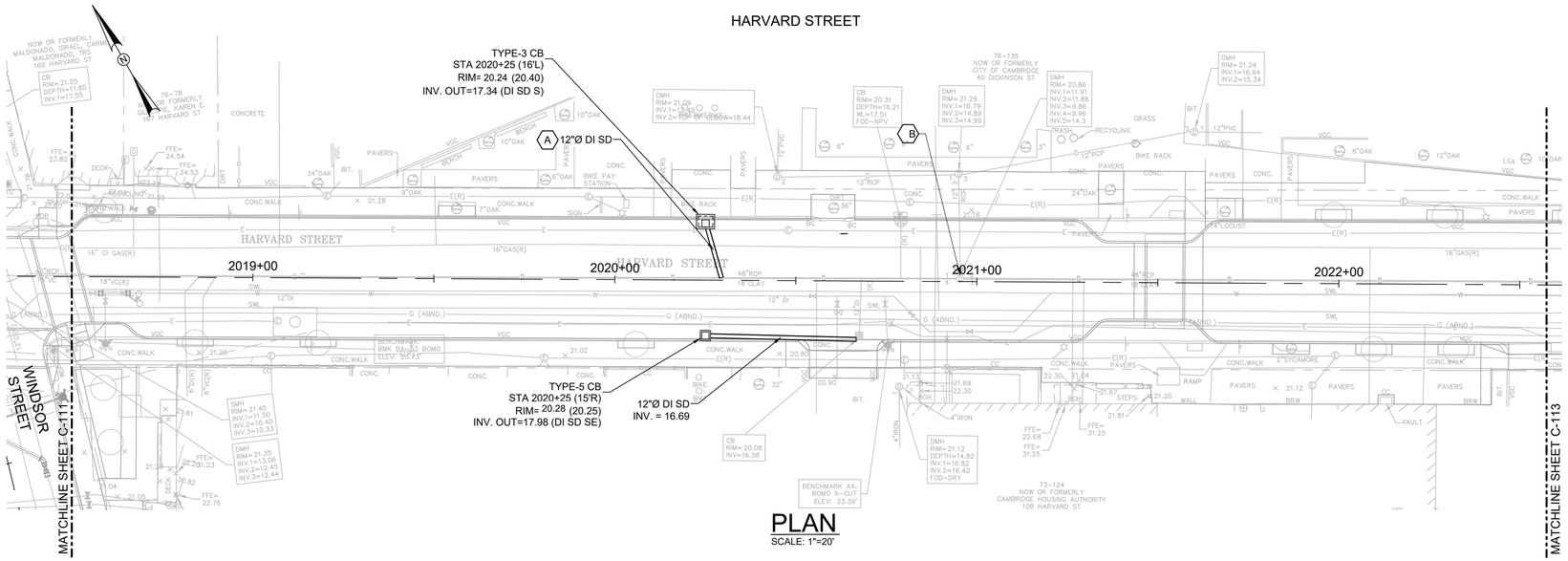
Sheet: C-111

File No.: 30724

Plot date: 12/15/2025 6:03:56 PM

CAD FILE: C:\Users\sbutin\DOCACDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-111.dwg LAYOUT: C-111 HarvardBV butts, seb

Plot date: 12/15/2025 6:05:05 PM





PROFILE
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. SEWER, DRAIN & WATER DEPICTED IN EXISTING CONDITIONS INCLUDES RECENTLY INSTALLED WORK SINCE SURVEY WAS CONDUCTED (TYP). REFER TO HARVARD STREET WATER MAIN IMPROVEMENTS DRAWINGS.
3. EXIST. BRICK AND VCP SS ALONG HARVARD IS CIPP LINED (HARVARD STREET WATER MAIN IMPROVEMENTS CONTRACT).

SHEET KEYNOTES

A. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.

B. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
VERTICAL SCALE: 1"=4'
4 2 0 4 8

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED
PROFESSIONAL ENGINEER

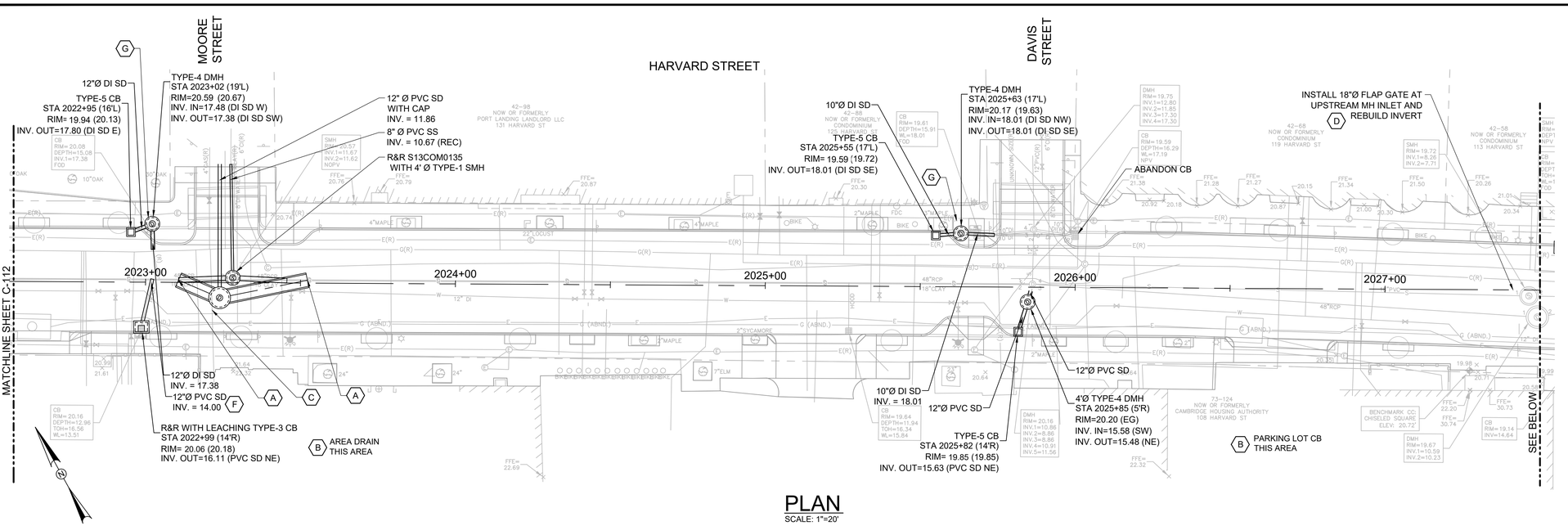
Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN & PROFILE HARVARD STREET STA. 2018+50 TO STA. 2022+50
Sheet: C-112
File No.: 30724

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\195139200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-112.dwg LAYOUT: C-112 Harvard St BY: butts, seb

Plot date: 12/15/2025 6:08:32 PM



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES
3. SEWER, DRAIN & WATER DEPICTED IN EXISTING CONDITIONS INCLUDES RECENTLY INSTALLED WORK SINCE SURVEY WAS CONDUCTED (TYP). REFER TO HARVARD STREET WATER MAIN IMPROVEMENTS DRAWINGS.
4. EXIST. BRICK AND VCP SS ALONG HARVARD IS CIPP LINED (HARVARD STREET WATER MAIN IMPROVEMENTS CONTRACT).

SHEET KEYNOTES

A. CONNECT PROPOSED RCP SD TO EXISTING PIPE WITH TYPE-1 FIELD CLOSURE (OVER/UNDER VARIANT).

B. CONTRACTOR TO INVESTIGATE POTENTIAL PRIVATE INFLOW SOURCES AND REDIRECT TO SD AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
100 HARVARD ST	MULTIPLE (SD)	NOT TESTED	PARKING LOT CB
130 HARVARD ST	MULTIPLE (SD)	NOT TESTED	AREA DRAIN

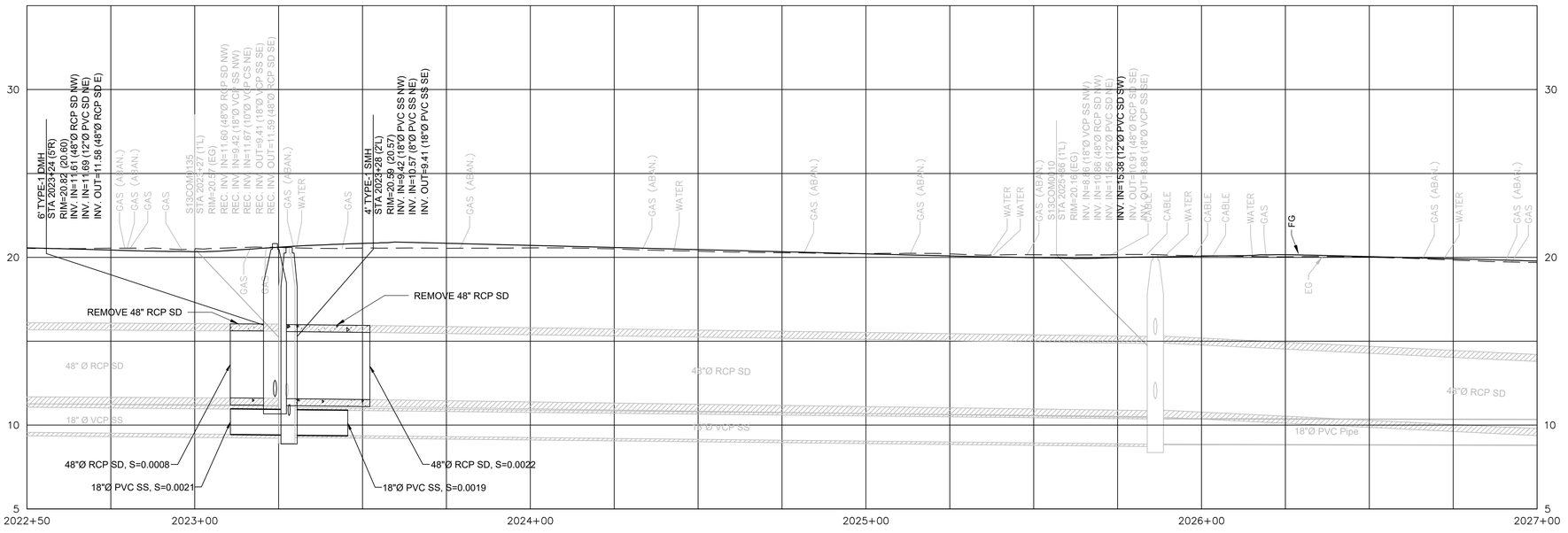
C. CONFLICTING GAS UTILITY AT PROP DMH, SEE U-SHEETS

D. RETROFIT FLAP GATE THROUGH EXIST. 36" MANHOLE COVER

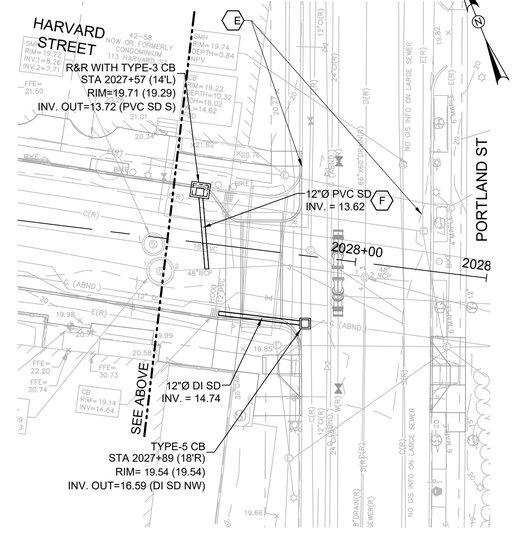
E. INSTALL CB (QTY OF 2) AS DIRECTED BY THE ENGINEER.

F. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE.

G. NO CB INSPECTION PERFORMED, CONSULT ENGINEER PRIOR TO REPLACEMENT.



PROFILE
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-113.dwg LAYOUT: C-113 HarvardBY: butts, seb

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Stantec

CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED
PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

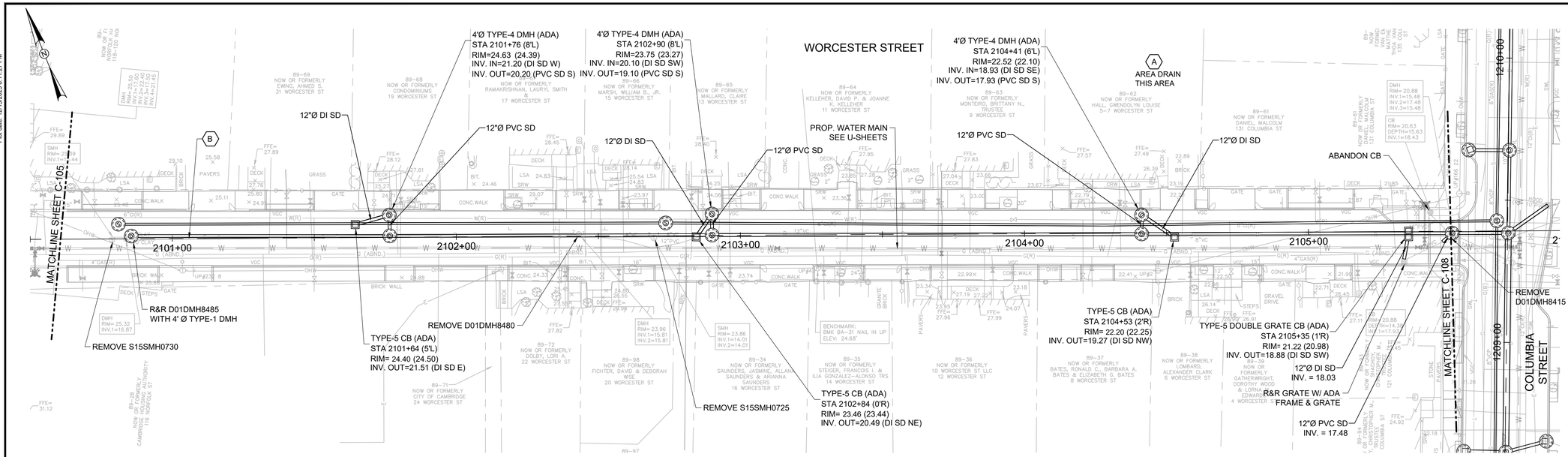
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: CIVIL - PLAN & PROFILE
HARVARD STREET STA. 2022+50 TO STA. 2028+35

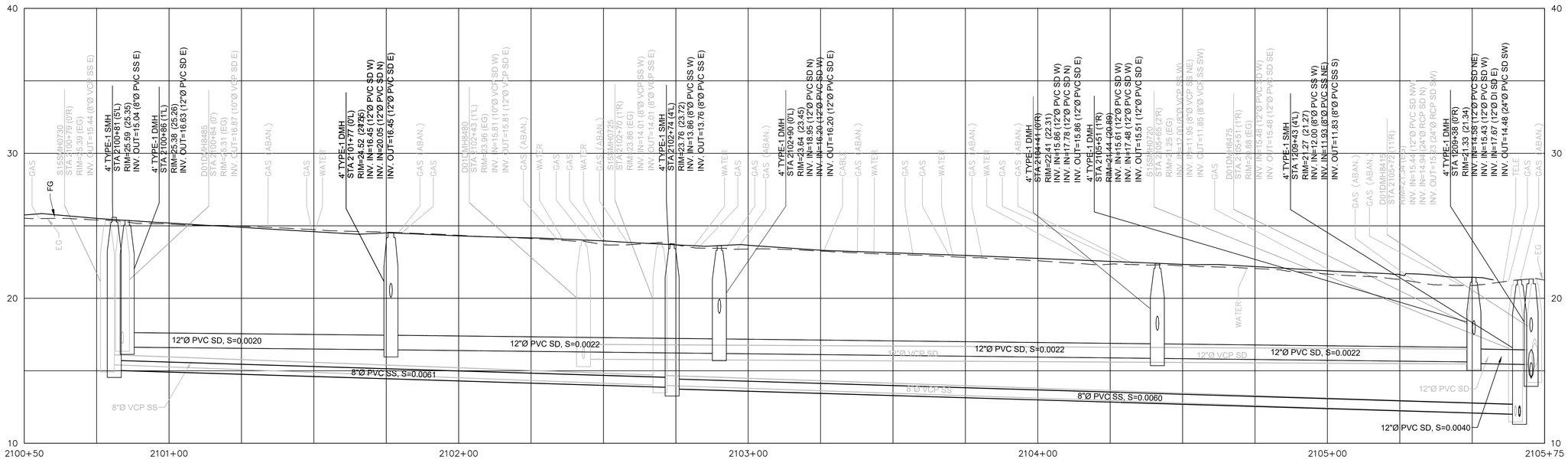
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File No.: 30724

Plot date: 12/15/2025 6:11:27 PM



PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CBS ON THIS SHEET SHALL BE FITTED WITH AN ADA COMPLIANT GRATE.
3. FOR SHARED STREET CONDITION, PROVIDE ADA-COMPLIANT OR WAFFLE GRATES AS INDICATED ON THE PLAN FOR EACH CATCH BASIN, DIRECT INLET AND OFFLINE SUMP MANHOLE.

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL PRIVATE INFLOW SOURCES AND REDIRECT TO SD AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
5 WORCESTER ST	MULTIPLE (SD)	NOT TESTED	AREA DRAIN

B. CONTRACTOR TO INVESTIGATE POTENTIAL ILLICIT CONNECTIONS ON WORCESTER STREET (APPROX. 30 LATERALS NORFOLK TO COLUMBIA, REFER TO CCTV LOGS) AND REDIRECT TO SS AS REQUIRED (SEE SPECIFICATION SECTION 02535)

CONFORMED

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Stantec

CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

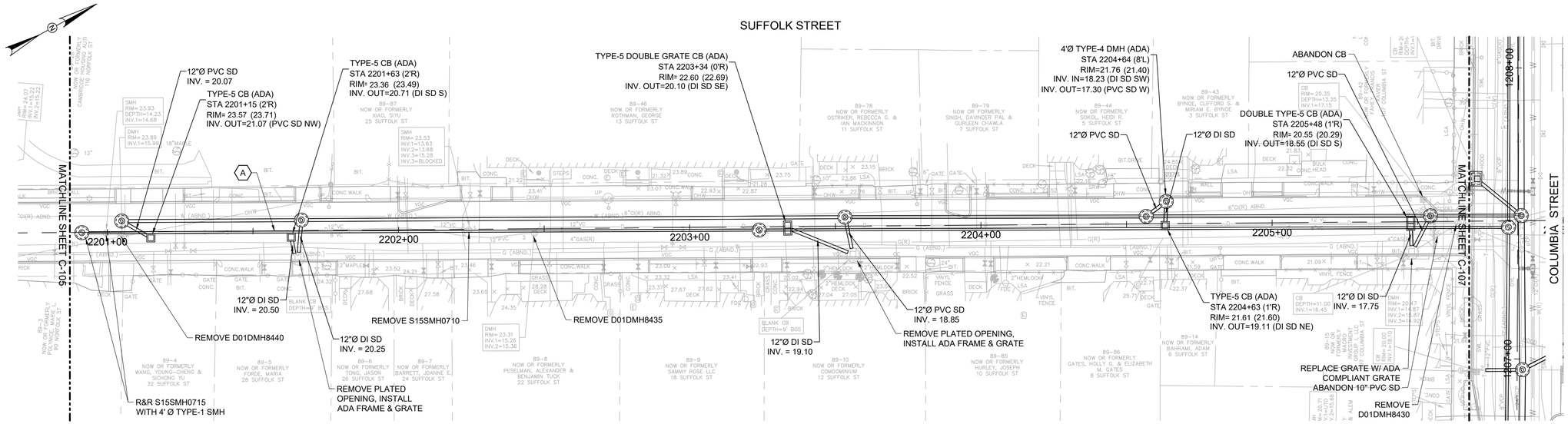
Drawing: CIVIL - PLAN & PROFILE
WORCESTER STREET STA. 2100+00 TO STA. 2105+75

Sheet: C-114

File No.: 30724

CAD FILE: C:\Users\stantec\DC&CC\Docs\Stantec Consulting\195192000_Morgan_Tanks_Complete_Sheet\Project Files\01_WP\04_civil\sheet_files\Package_1\30200_C-114.dwg LAYOUT: C-114 WORCESTERBY: butts, seb

Plot date: 12/15/2025 6:09:21 PM



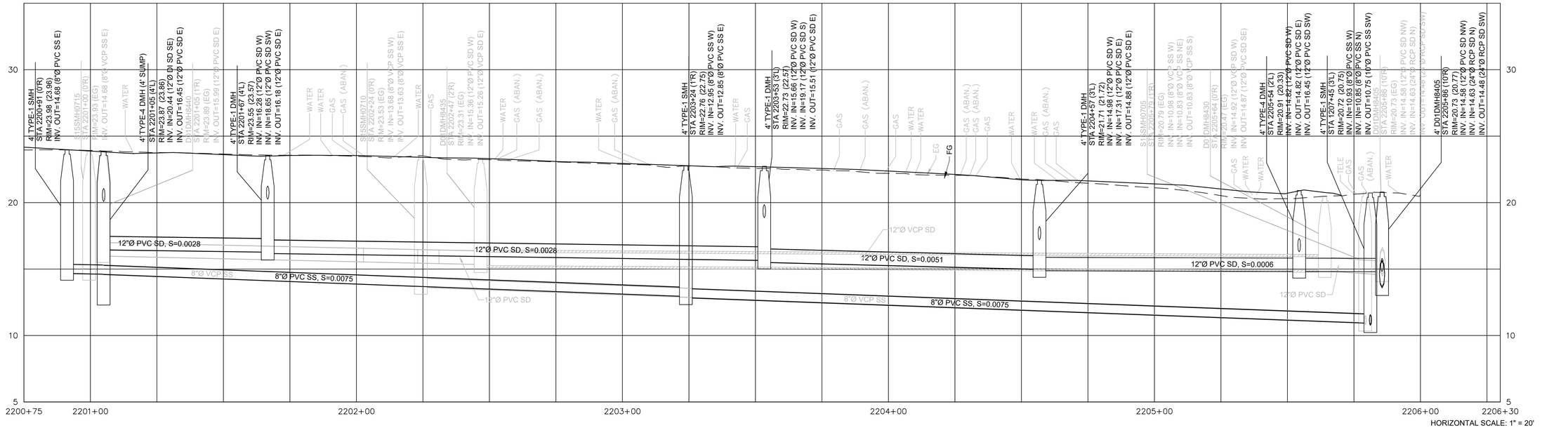
PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CBS ON THIS SHEET SHALL BE FITTED WITH AN ADA ACCESSIBLE GRATE.
3. FOR SHARED STREET CONDITION, PROVIDE ADA-COMPLIANT OR WAFFLE GRATES AS INDICATED ON THE PLAN FOR EACH CATCH BASIN, DIRECT INLET AND OFFLINE SUMP MANHOLE.

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL ILLICIT CONNECTIONS ON SUFFOLK STREET (APPOX. 22 LATERALS NORFOLK TO COLUMBIA. REFER TO CCTV LOGS) AND REDIRECT TO SS AS REQUIRED (SEE SPECIFICATION SECTION 02535)



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
VERTICAL SCALE: 1"=4'
4 2 0 4 8

CONFORMED

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CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

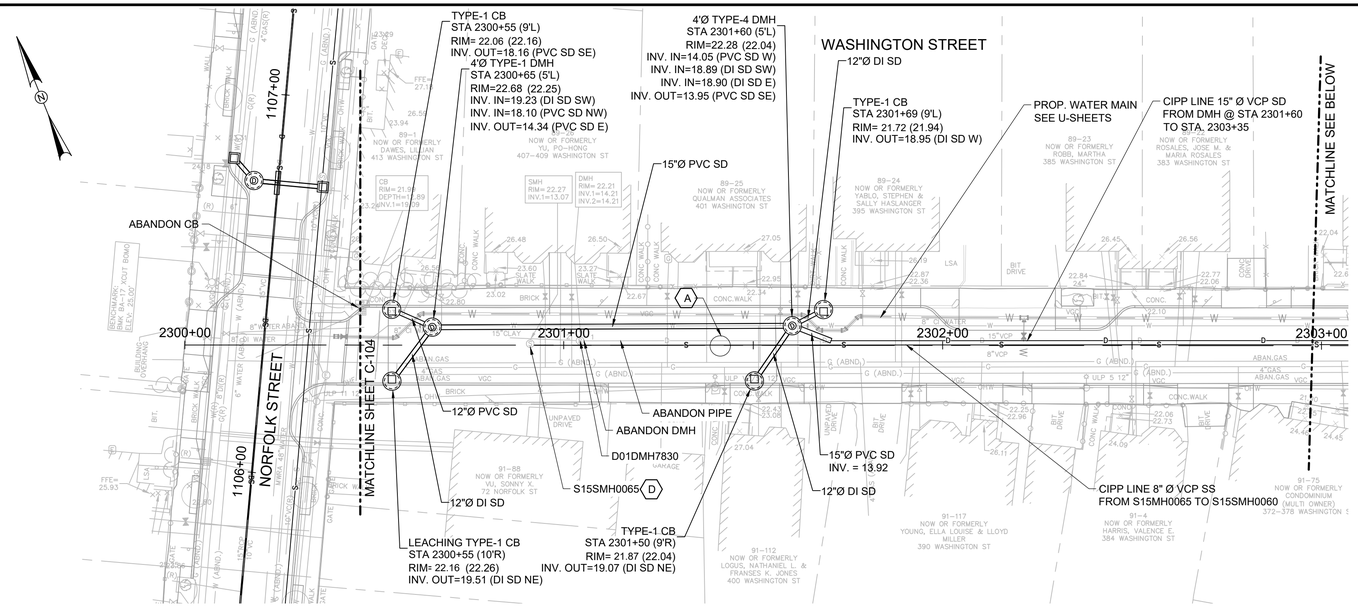
THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN & PROFILE SUFFOLK STREET STA. 2200+75 TO STA. 2206+00

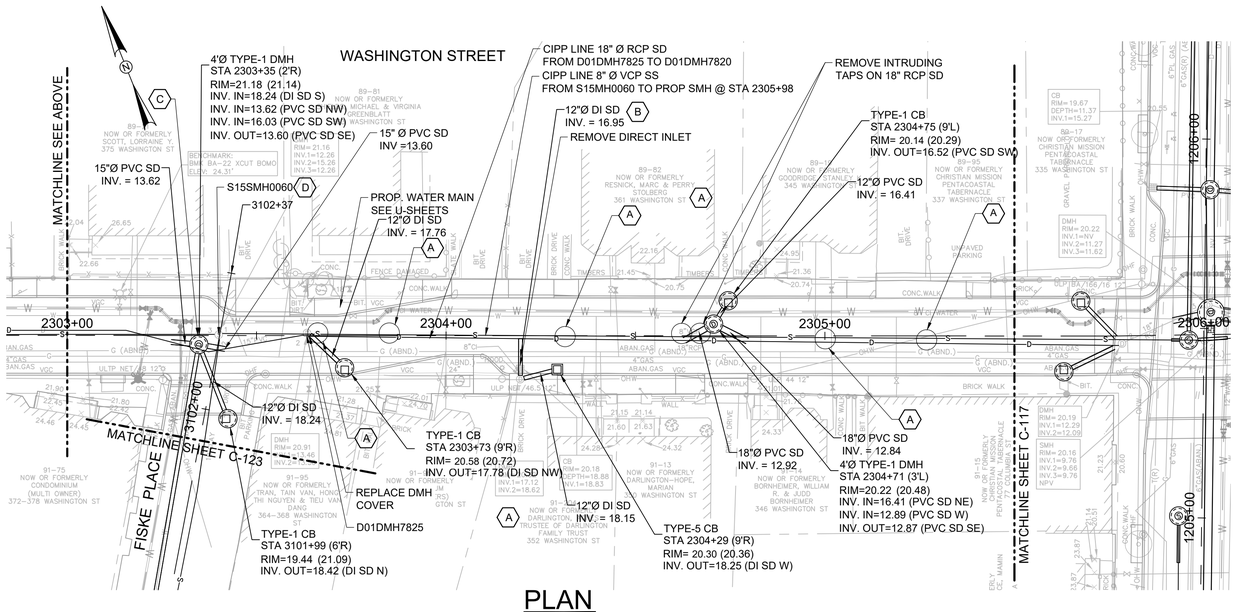
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Plot date: 12/15/2025 6:10:59 PM



PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 15-17 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES

SHEET KEYNOTES

A. CONTRACTOR TO INVESTIGATE POTENTIAL ILLICIT CONNECTIONS AND REDIRECT TO SS AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
401 WASHINGTON STREET	STA. 2301+41 (SD)	NOT TESTED	ROOF DRAIN
363 WASHINGTON STREET	STA. 2303+69 (SD)	CONFIRMED ILLICIT	SEWER LATERAL
362 WASHINGTON STREET	STA. 2303+89 (SD)	CONFIRMED ILLICIT	SEWER LATERAL
361 WASHINGTON STREET	MULTIPLE (SD)	NOT TESTED	ROOF DRAIN
352 WASHINGTON STREET	MULTIPLE (SD)	CONFIRMED ILLICIT	SEWER LATERAL
344 WASHINGTON STREET	STA. 2305+00 (SD)	NOT TESTED	SEWER LATERAL
337 WASHINGTON STREET	STA. 2305+27 (SD)	NOT TESTED	ABANDONED

B. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.

C. SEE SHEET C-123 FOR MH CALLOUT

D. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
VERTICAL SCALE: 1"=4'
4 2 0 4 8

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CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

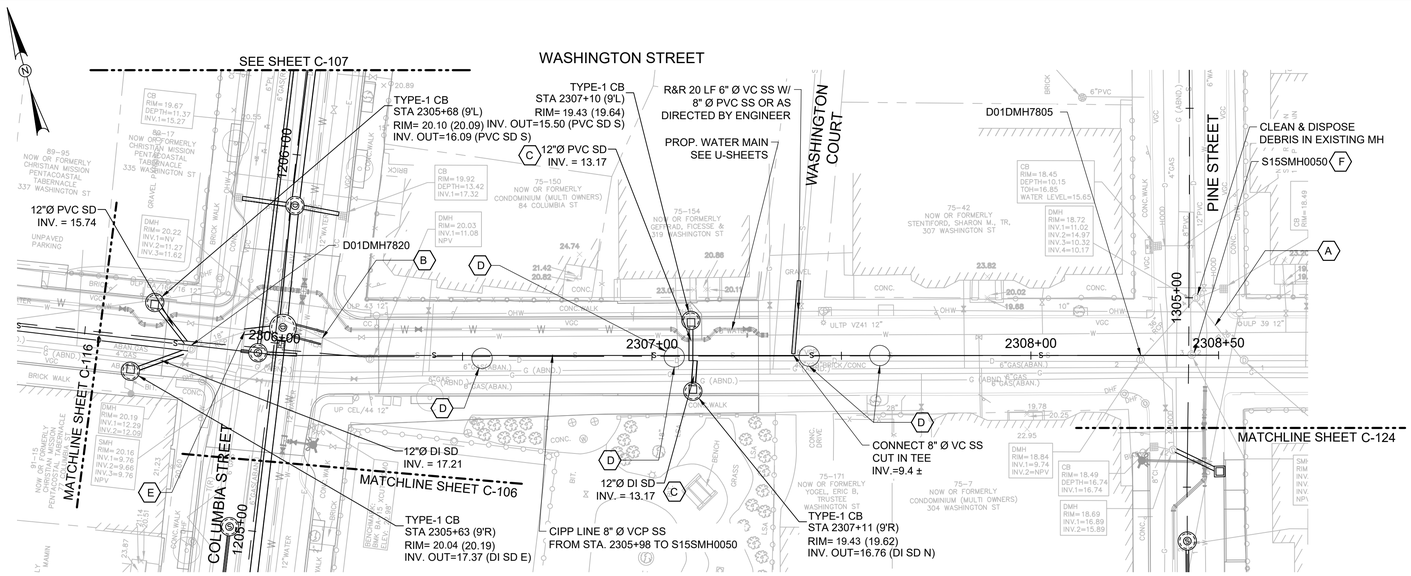
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN
WASHINGTON STREET STA. 2300+00 TO STA. 2305+50

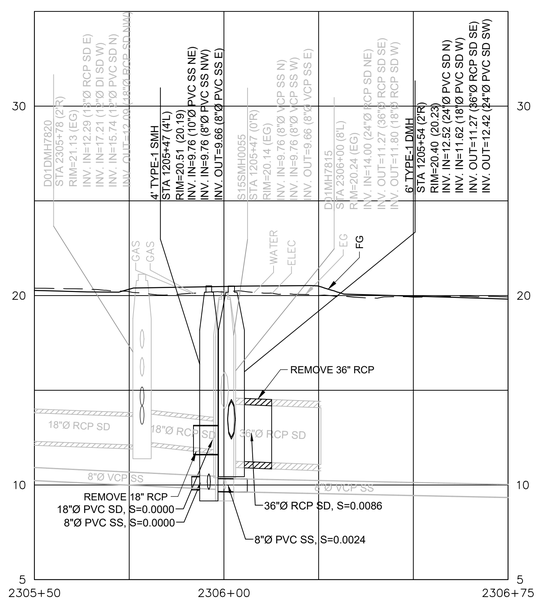
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File No.: 30724

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Plot date: 12/15/2025 6:13:24 PM



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES
3. CIPP LINING WITHIN 300' OF 71 CHERRY STREET SHALL BE COMPLETED DURING EVENINGS OR WEEKENDS.

SHEET KEYNOTES

A. REPAIR HOLE FORM INTRUDING UTILITY ON EXIST. 36" RCP SD, SEE U SHEETS.

B. CONNECT PROPOSED RCP SD TO EXISTING PIPE WITH TYPE-1 FIELD CLOSURE.

C. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.

D. CONTRACTOR TO INVESTIGATE POTENTIAL ILLICIT CONNECTIONS AND REDIRECT TO SS AS REQUIRED (SEE SPECIFICATION SECTION 02535) AT THE FOLLOWING LOCATIONS:

ADDRESS	STATION	ENGINEER'S INITIAL FINDINGS	SUSPECTED FUNCTION
60 COLUMBIA ST	STA. 2306+55 (SD)	NOT TESTED	ABANDONED
319 WASHINGTON ST	STA. 2307+06 (SD)	NOT TESTED	ROOF DRAIN
60 COLUMBIA ST	STA. 2307+06 (SD)	NOT TESTED	ABANDONED
60 COLUMBIA ST	STA. 2307+41 (SD)	NOT TESTED	ABANDONED
60 COLUMBIA ST	STA. 2307+60 (SD)	NOT TESTED	ABANDONED

E. ADD 18" PVC BEND OF ANGLE NECESSARY TO ALIGN CONNECTION WITH EXISTING.

F. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	LH			
Checked by	EO	No.	Description	Date
Approved by	DJV	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

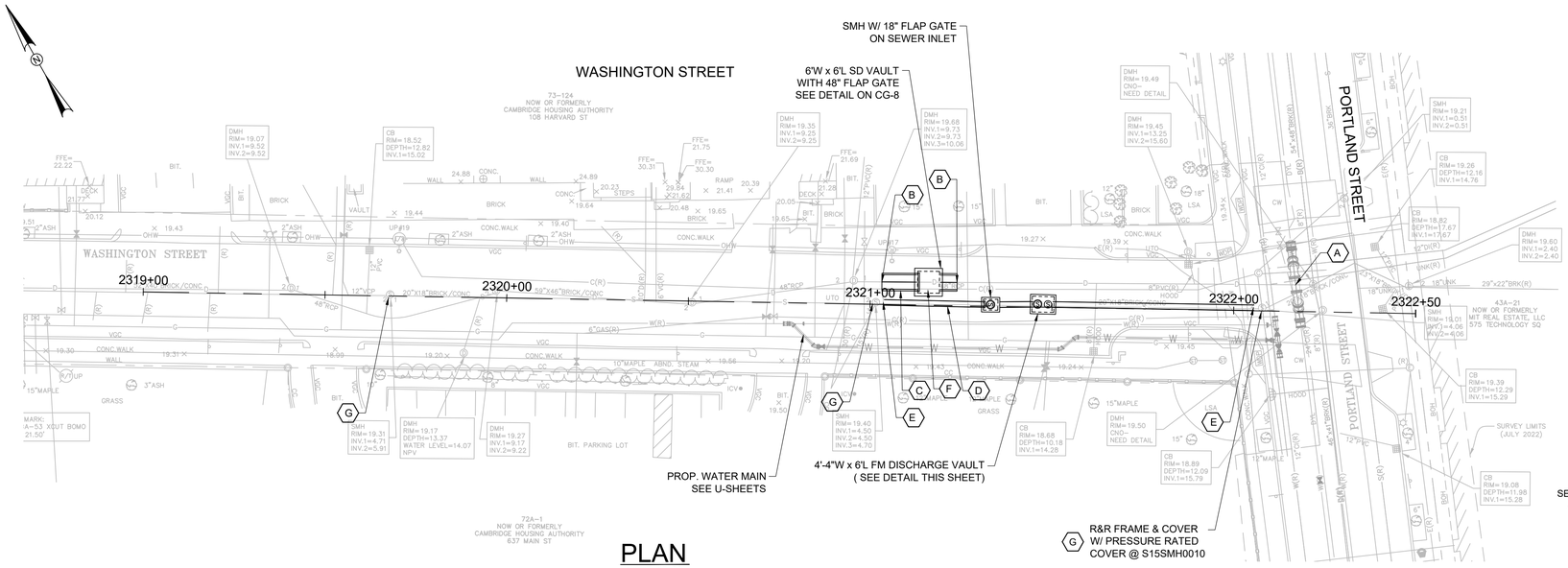
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WASHINGTON STREET STA. 2305+50 TO STA. 2310+50

Sheet: C-117

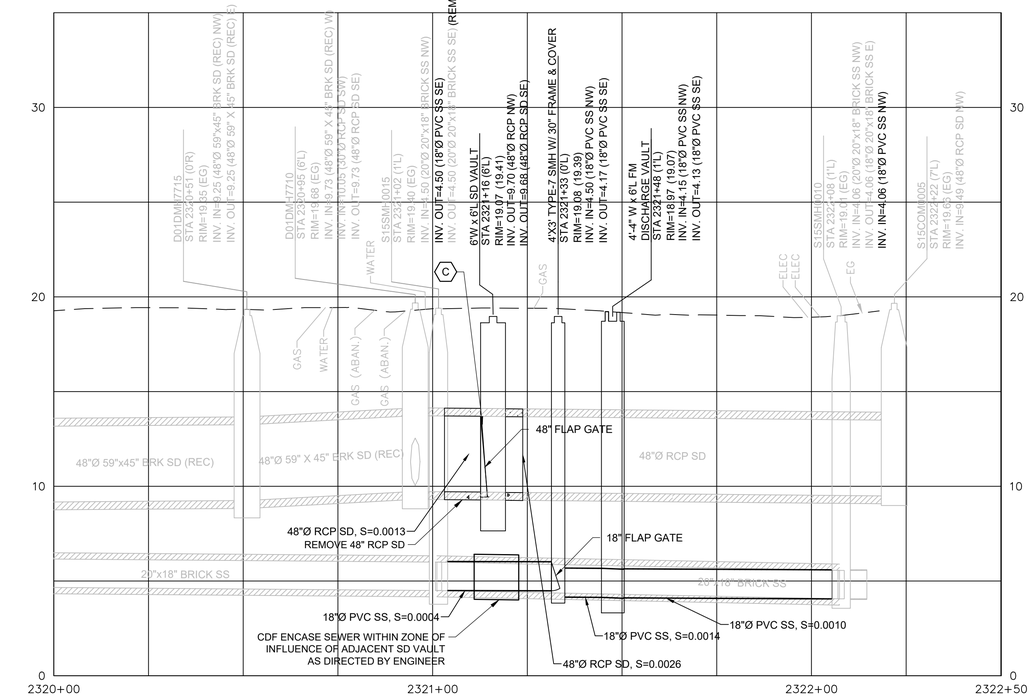
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CAD FILE: C:\Users\sbotts\DOCACDocs\Stantec Consulting\19515\30200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-117.dwg LAYOUT: C-117 Washington BY: botts, seb

Plot date: 12/15/2025 6:14:39 PM



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20'

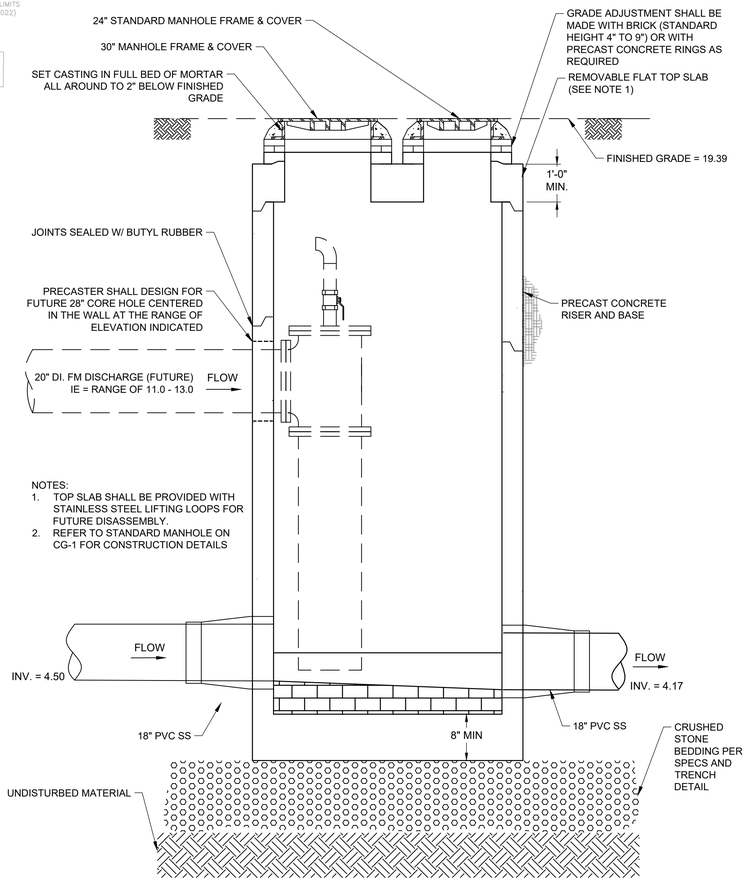
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.

SHEET KEYNOTES

- A. INTRUDING UTILITY ON EXIST. 48" RCP SD, SEE U SHEETS.
- B. CONNECT PROPOSED PIPE TO EXISTING PIPE WITH TYPE-1 FIELD CLOSURE.
- C. AT UPSTREAM SIDE OF VAULT, PROVIDE 48" RCP WITH SHORT SEGMENTS FOR DIFFERENTIAL SETTLEMENT OF STRUCTURE.
- D. REMOVE ABANDONED 45" x 59" BRICK PIPE WITHIN LENGTH OF SEWER TRENCHING.
- E. CONNECT 18" PVC SS TO EXIST. SMH
- F. CONFLICTING UTILITY AT PROP. SD VAULT, SEE U-SHEETS
- G. LINE INTERIOR OF EXISTING BRICK MANHOLE



FORCEMAIN DISCHARGE VAULT - SECTION
SCALE: 1/2" = 1'-0"

CONFORMED

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CHRISTIAN E OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

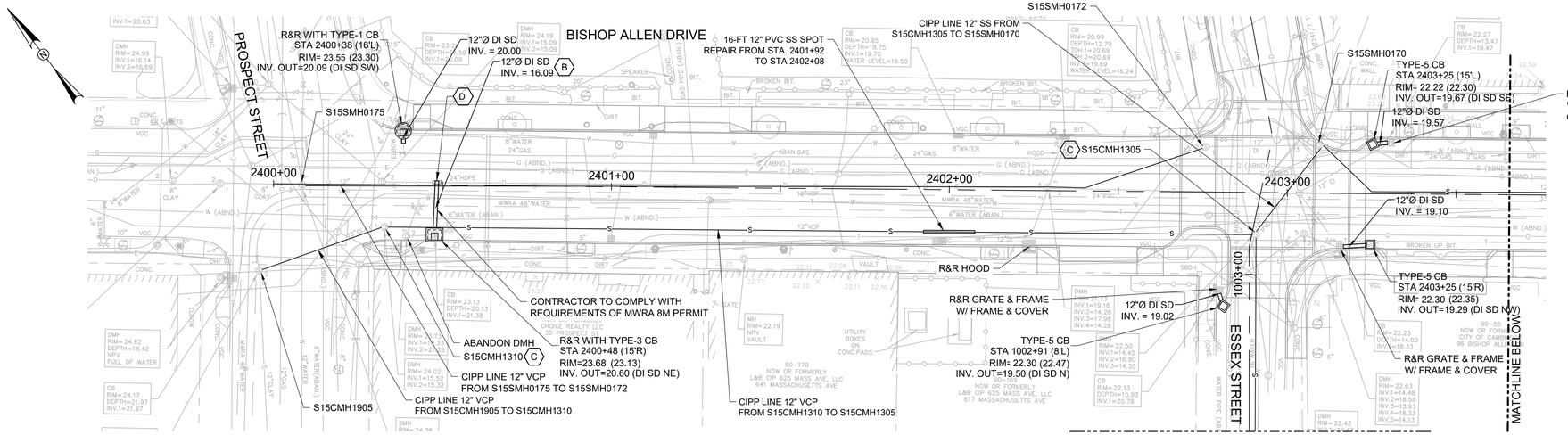
Drawing: CIVIL - PLAN
WASHINGTON STREET STA. 2318+50 TO STA. 2322+00

Sheet: C-118

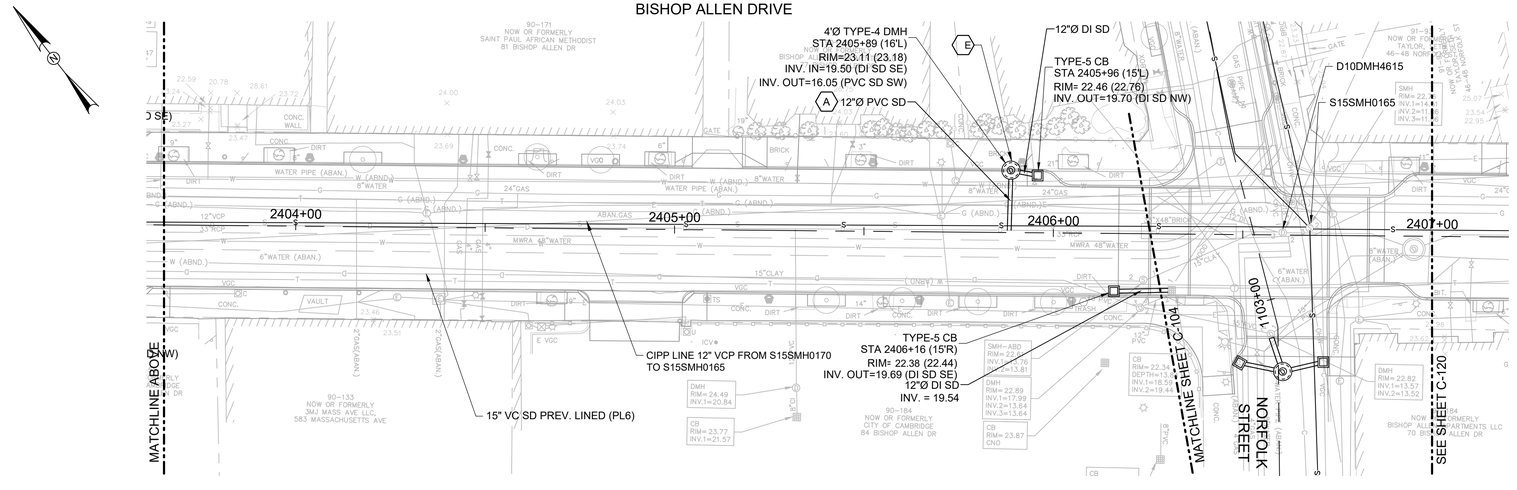
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CAD FILE: C:\Users\ebuhrs\DC\ACCDocs\Stantec Consulting\19515\20200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-118.dwg LAYOUT: C-118 Washington BY: butts, seb

Plot date: 12/15/2025 6:16:07 PM



PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. PERFORM EXCAVATION SUPPORT PER MWRA REQUIREMENTS ADJACENT TO 48" WATER TRANSMISSION MAIN
4. FOR EXCAVATIONS WITHIN 20-FT OF 48" WATER TRANSMISSION MAIN, PERFORM EXCAVATION SUPPORT PER MWRA 8M PERMIT REQUIREMENTS. TRENCH BOX NOT ALLOWED FOR SEWER SPOT REPAIR.

SHEET KEYNOTES

A. CONNECT CB LATERAL TO 33" RCP DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.

B. ROUTE CB LATERAL A MIN CLEARANCE OF 18" ABOVE MWRA WATER AND PROVIDE FITTINGS FOR VERTICAL CHIMNEY AT DRAIN.

C. LINE INTERIOR OF EXISTING BRICK MANHOLE

D. CUT IN 24"x12" DI TEE W/ TYPE-2 FIELD CLOSURES AND ORIENT 12" BRANCH VERTICAL

E. POSITION MANHOLE COVER OFF OF CURB ALIGNMENT (SEE ROADWAY SHEETS)

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

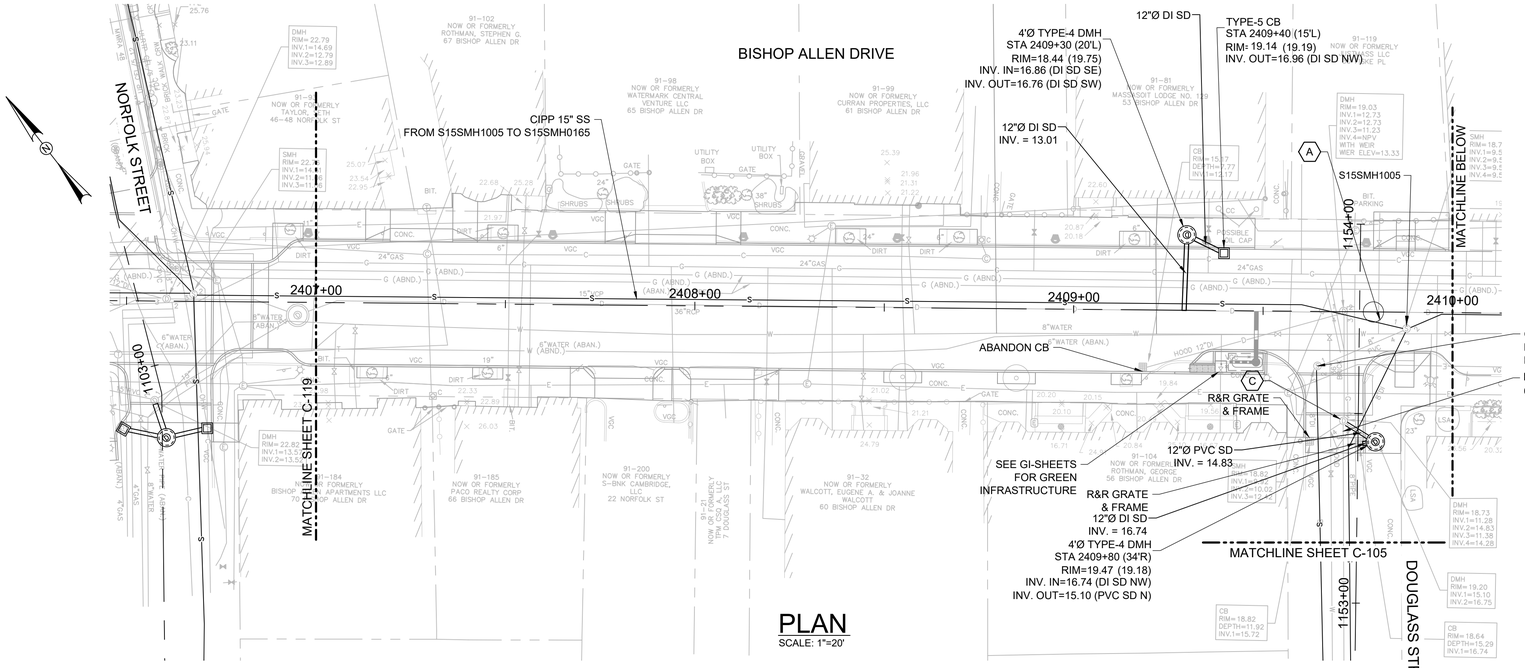
Drawing: CIVIL - PLAN & PROFILE
BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2407+00

Sheet: C-119

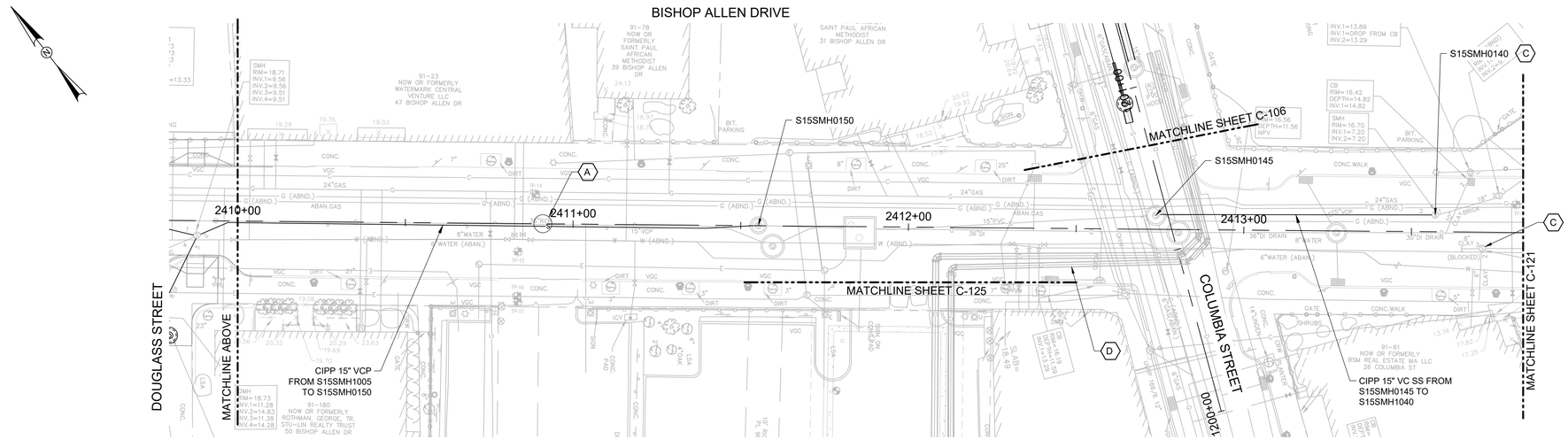
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CAD FILE: C:\Users\stuttz\DOCS\Docs\Stantec Consulting\195139200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-119.dwg LAYOUT: C-119 Bishop Allen BY: tuttz, seb

Plot date: 12/15/2025 6:17:51 PM



PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.

SHEET KEYNOTES

A. INTRUDING UTILITY AT EXIST 36" RCP SD, SEE U SHEETS

B. CONNECT CB LATERAL TO DRAIN MAIN WITH CORED INSERTA-TEE CONNECTION.

C. LINE INTERIOR OF EXISTING BRICK MANHOLE

D. CONDUITS DEPICTED IN EXISTING CONDITIONS ARE RECENTLY INSTALLED PIPES. REFER TO THE PORT - PL6 STORMWATER STORAGE TANK DRAWINGS.

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
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No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

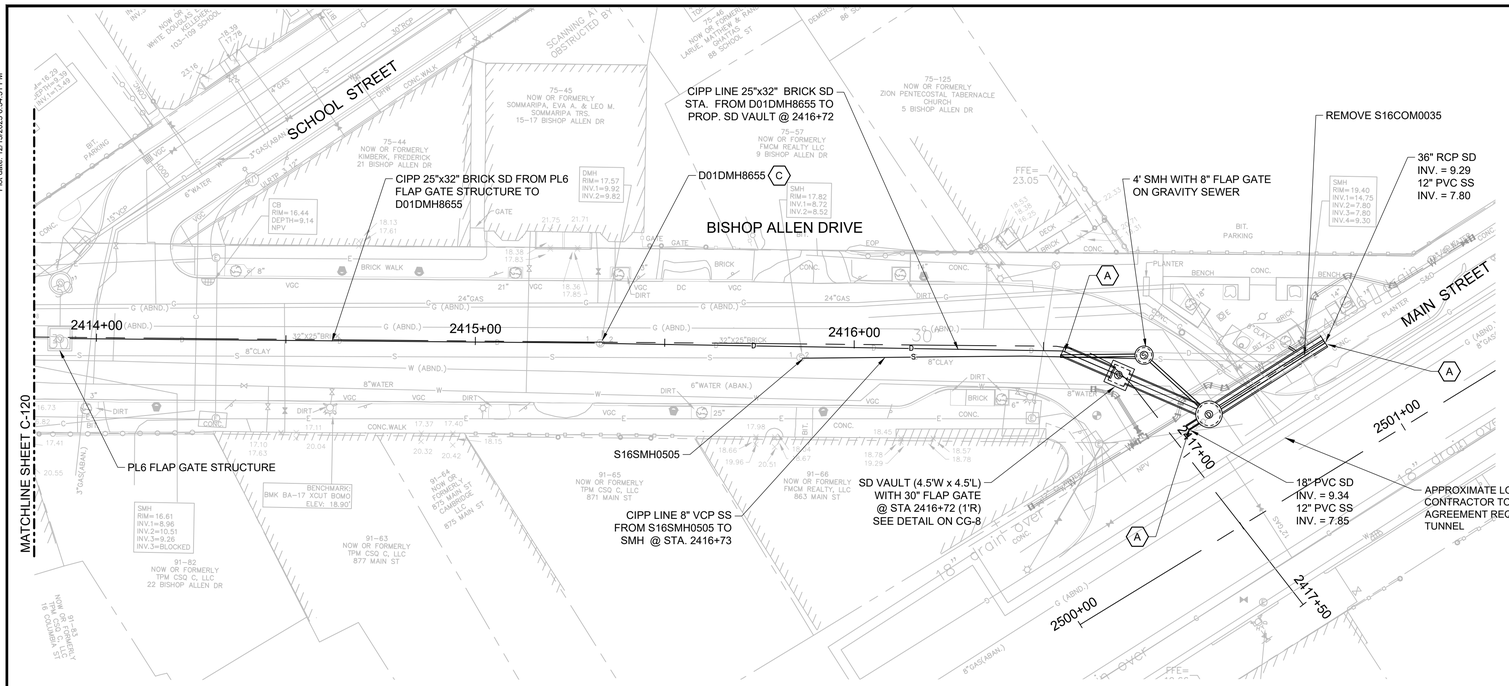
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: CIVIL - PLAN & PROFILE
BISHOP ALLEN DRIVE STA. 2407+25 TO STA. 2413+50

Sheet: C-120

File No.: 30724

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Sheet\Project Files\01_WP\04_civil\sheet_files\Package_1\30200_C-120.dwg LAYOUT: C-120 Bishop Allen BY: butts, seb



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

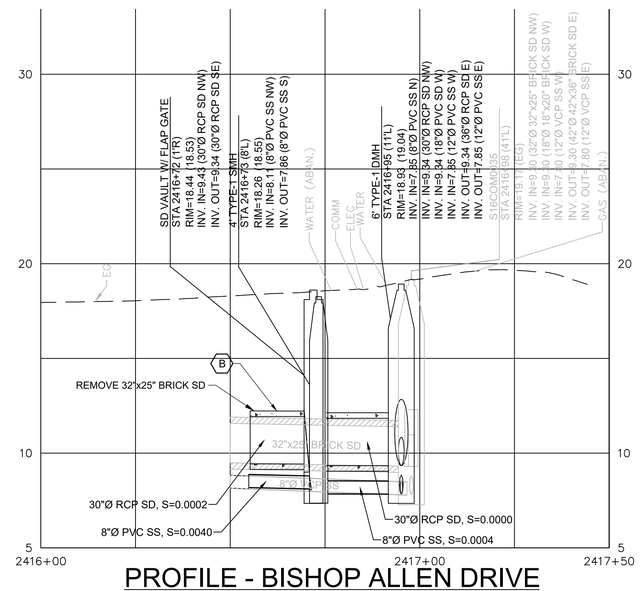
1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.

SHEET KEYNOTES

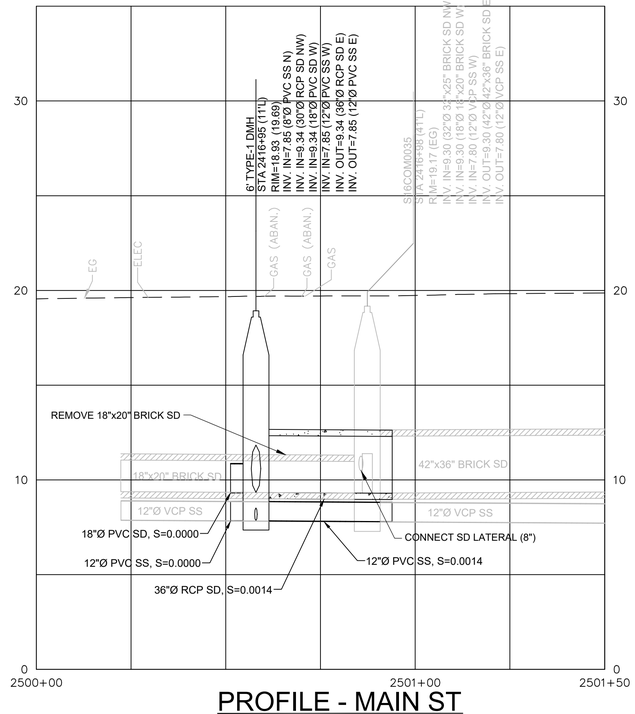
A. CONNECT PROP. SD TO EXIST. PIPE WITH TYPE-1 FILED CLOSURE (OVER/UNDER VARIANT).

B. AT UPSTREAM SIDE OF VAULT, PROVIDE 30" RCP WITH TWO (2) 3' LONG SEGMENTS FOR DIFFERENTIAL SETTLEMENT OF STRUCTURE.

C. LINE INTERIOR OF EXISTING BRICK MANHOLE



PROFILE - BISHOP ALLEN DRIVE
SCALE: 1"=20'



PROFILE - MAIN ST
SCALE: 1"=20'

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1"=4'

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Stantec

COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

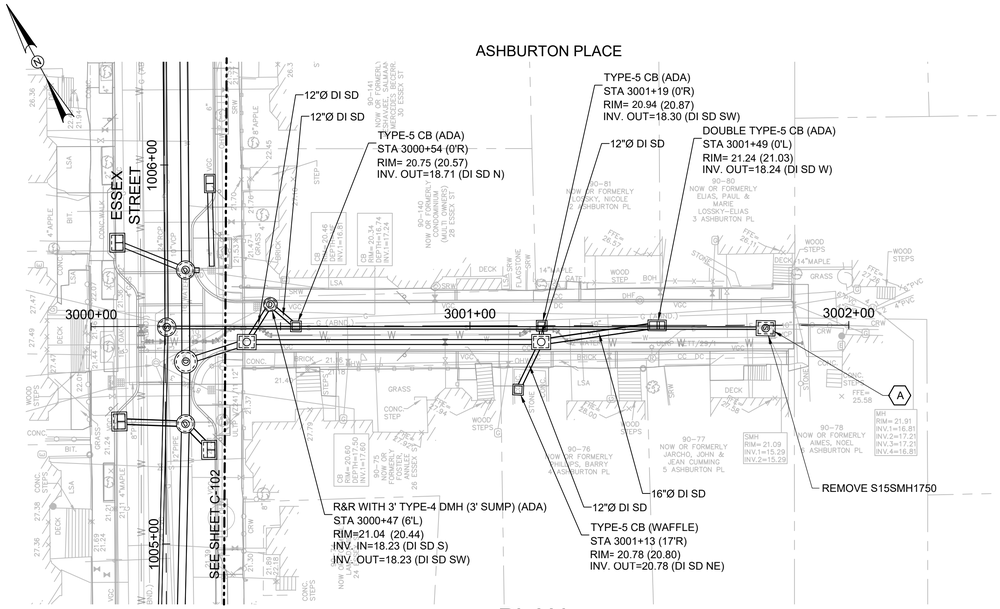
Drawing: CIVIL - PLAN & PROFILE BISHOP ALLEN DRIVE STA. 2412+50 TO STA. 2417+25

Sheet: C-121

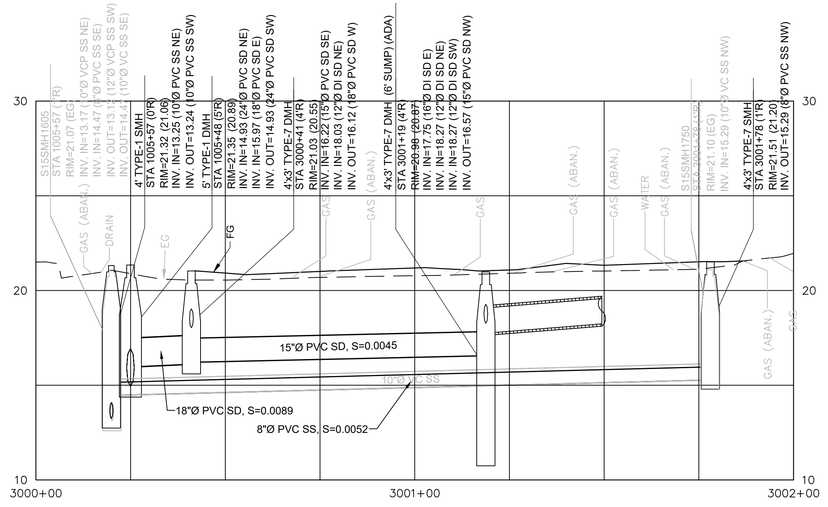
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Plot date: 12/15/2025 6:27:15 PM



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20'

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 15-17 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.
3. FOR SHARED STREET CONDITION, PROVIDE ADA-COMPLIANT OR WAFFLE GRATES AS INDICATED ON THE PLAN FOR EACH CATCH BASIN, DIRECT INLET AND OFFLINE SUMP MANHOLE.

SHEET KEYNOTES

A. RECONNECT SERVICE LATERALS TO SMH W/ FIELD CORE CONNECTIONS.

CONFORMED

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\19513920_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-122.dwg LAYOUT: C-122 BY: butts, seb

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CHRISTIAN E. OLANDER CIVIL No. 50676 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	MA	No.	Description	Date
Approved by	EO	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

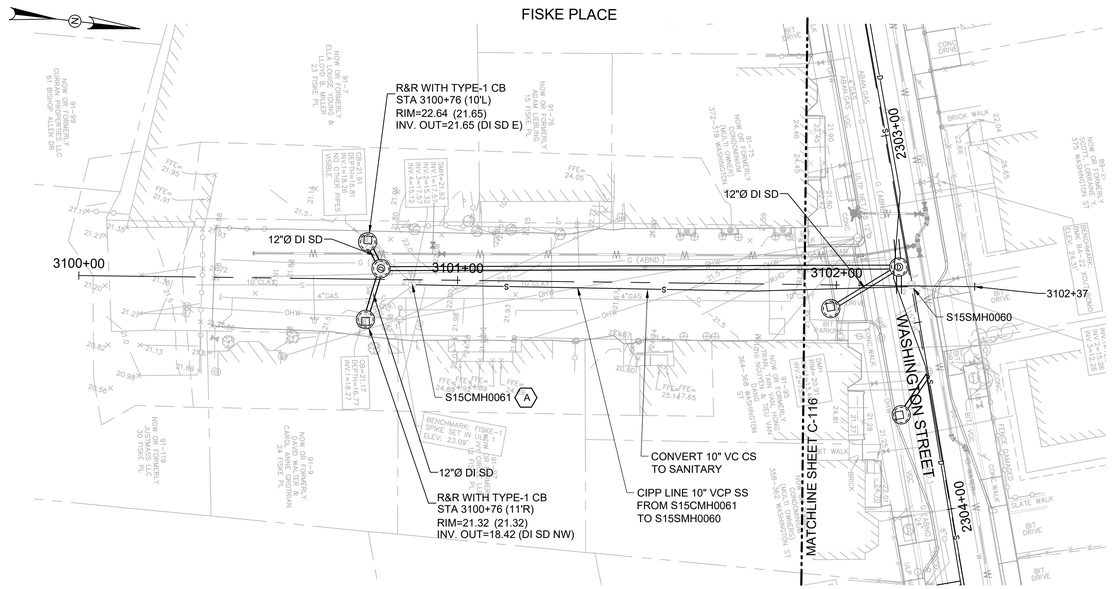
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: CIVIL - PLAN & PROFILE
ASHBURTON PLACE STA. 2050+00 TO STA. 2052+00

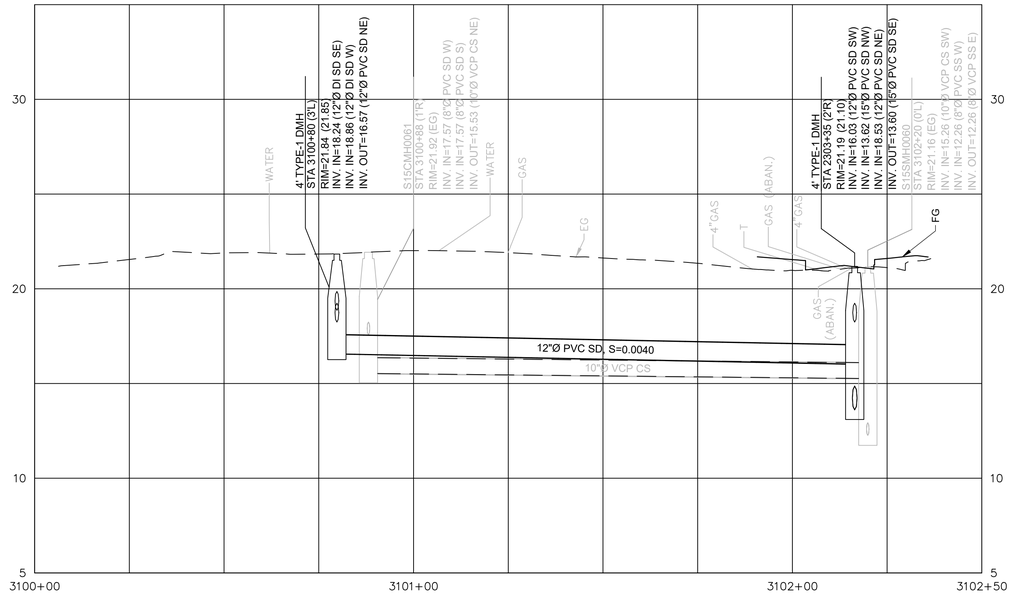
Sheet: C-122

File No.: 30724

Plot date: 12/15/2025 6:28:26 PM



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAILS 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES

SHEET KEYNOTES

A. LINE INTERIOR OF EXISTING BRICK MANHOLE

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

CONFORMED

CAD FILE: C:\Users\sbutts\DOCACDocs\Stantec Consulting\195190200_Morgan_Tanks_Complete_Sheet\Project Files\01_WP\04_civil\sheet_files\Package_1\30200_C-123.dwg LAYOUT: C-123 BY: butts, seb

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: CIVIL - PLAN & PROFILE FISKE PLACE
Sheet: C-123
File No.: 30724

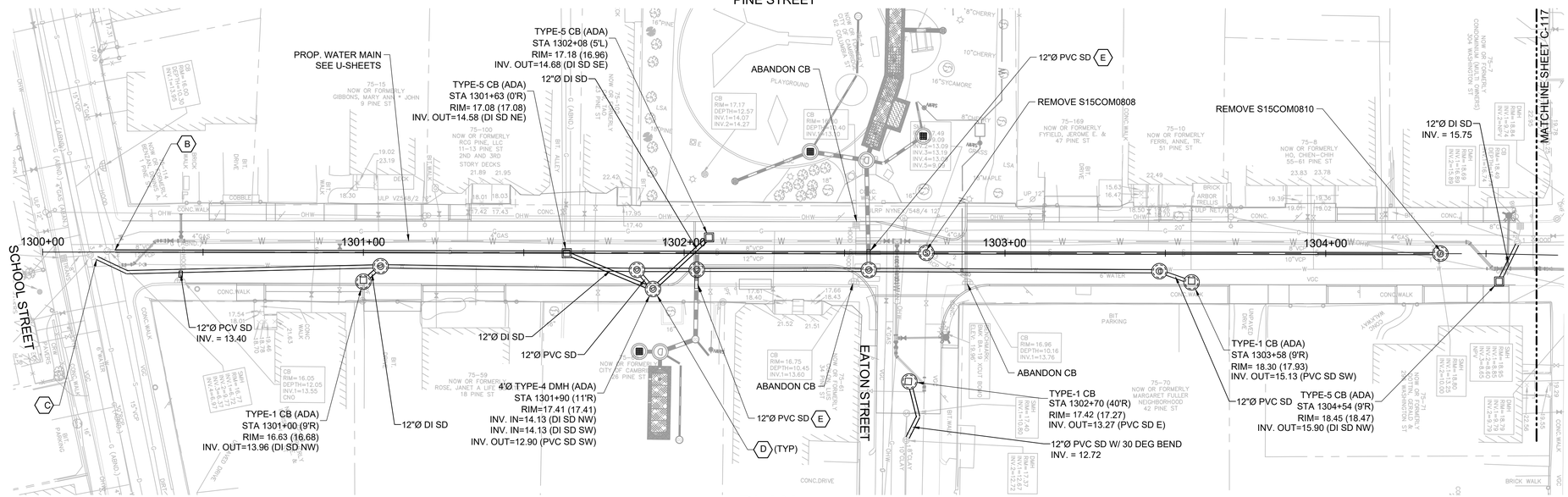
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GENERAL SHEET NOTES

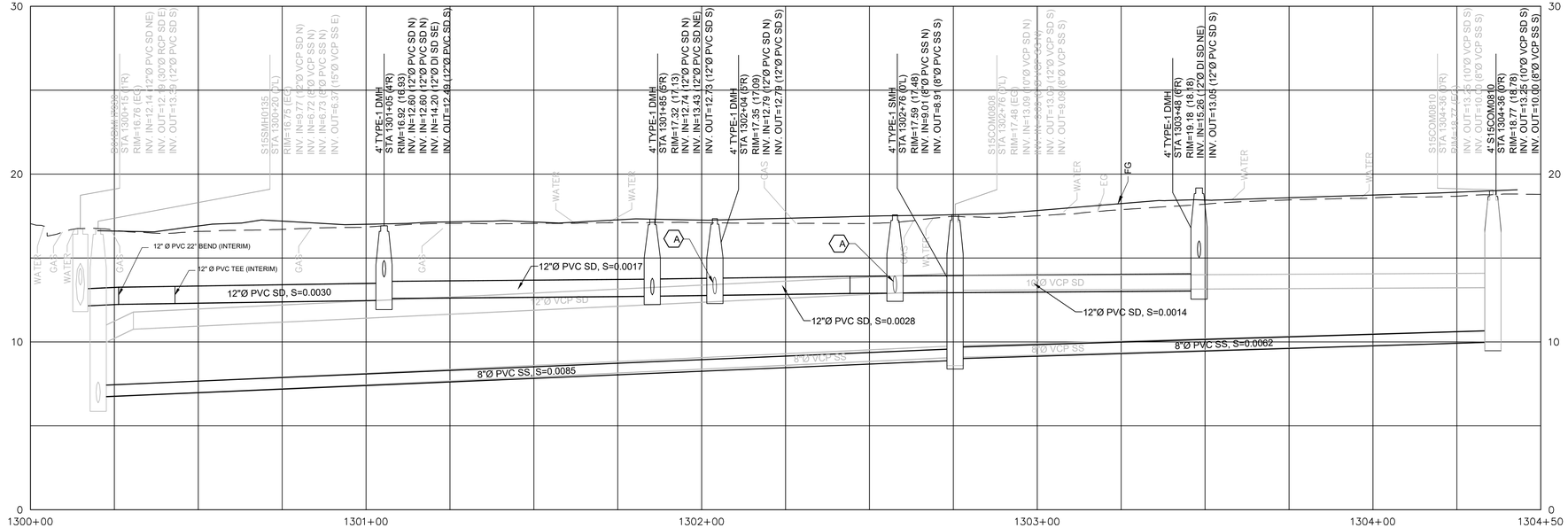
1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CBS ON THIS SHEET SHALL BE FITTED WITH AN ADA ACCESSIBLE GRATE.
3. FOR SHARED STREET CONDITION, PROVIDE ADA-COMPLIANT OR WAFFLE GRATES AS INDICATED ON THE PLAN FOR EACH CATCH BASIN, DIRECT INLET AND OFFLINE SUMP MANHOLE.

SHEET KEYNOTES

- A. PROVIDE PRECAST OPENING IN MH AND REDIRECT DRAIN LATERAL (REFER TO PROPOSED MORGAN PARK CONTRACT).
- B. CONNECT 8" PVC SS TO EXIST MH OPENING W/ WATERSTOP GROUTING RING
- C. CONNECT 12" PVC SD TO EXIST MH WITH CORE DRILL OPENING
- D. POSITION MH COVER OFF CURB ALIGNMENT (SEE ROADWAY SHEETS)
- E. COORDINATE WORK SEQUENCE FOR INSTALLATION OF UTILITIES BY OTHERS AS DIRECTED BY OWNER (REFER TO PROPOSED MORGAN PARK CONTRACT)



PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

HORIZONTAL SCALE: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE: 1"=4'

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	SB
Drawn by	SB
Checked by	MA
Approved by	EO

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL - PLAN & PROFILE
PINE STREET STA. 1300+00 TO STA. 1304+50

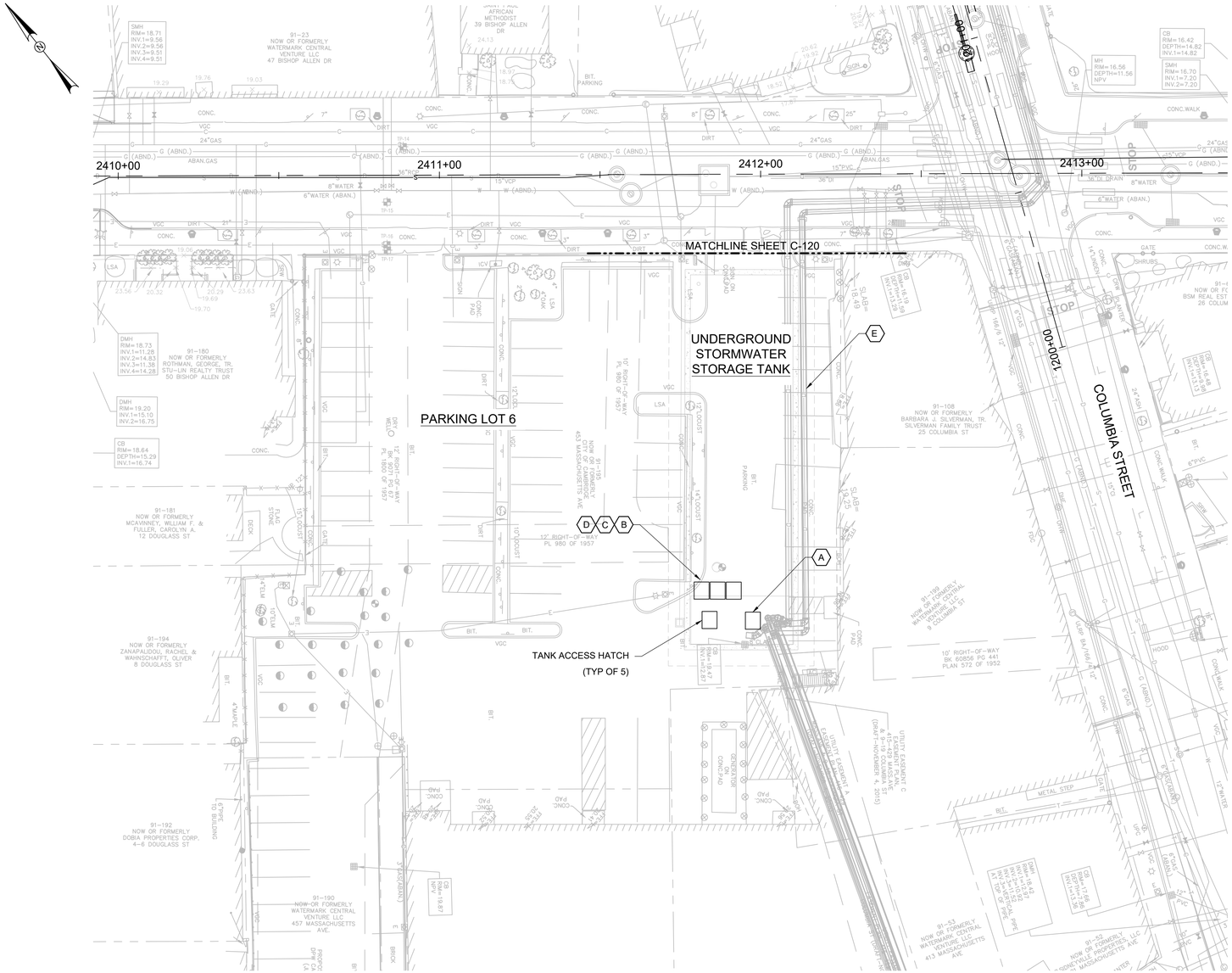
Sheet: C-124

File No.: 30724

CAD FILE: C:\Users\sbutts\DOCAC\Docs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WP\04_civil\sheet_files\Package_1\30200_C-124.dwg LAYOUT: C-109 Prine BY: butts, seb

Plot date - 12/15/2025 6:32:32 PM

BISHOP ALLEN DRIVE



PLAN
SCALE: 1"=20'

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

GENERAL SHEET NOTES

1. THE SURFACE CONDITIONS DEPICTED FOR PARKING LOT 6 ARE BASED ON AN OUTDATED SITEWORK DESIGN. THE AS-BUILT CONDITIONS DIFFER FROM THIS PLAN, WHICH IS PREDOMINANTLY AN ALTERNATE LAYOUT OF CURBING AND STRIPING. A DRAWING OF THE FINAL PARKING LOT DESIGN IS AVAILABLE FROM THE CITY UPON REQUEST. CONTRACTOR SHALL ADAPT ITS WORK TO THE DIFFERING FIELD CONDITION.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAMBRIDGE PARKING DEPARTMENT FOR ANY TEMPORARY CLOSURE OF ON-STREET OR OFF-STREET PARKING SPACES.

SHEET KEYNOTES

A. R&R EXISTING ALUMINUM HATCHES WITH STEEL HATCHES, SEE SHEET CG-10 FOR DETAILS AND ASSOCIATED CONCRETE WORK.

B. PRIOR TO WORK, SURVEY EXISTING GRADES IN THE VICINITY OF THE HATCHES AND DOCUMENT THE LAYOUT OF ALL CURBING AND STRIPING. REMOVE, PROTECT AND WATER IMPACTED SHRUBS FOR RE-PLANTING.

C. UPON EXCAVATION, DOCUMENT PAVEMENT THICKNESSES AND RESERVE/PROTECT GRANITE CURBING FOR REUSE.

D. AFTER HATCH REPLACEMENT, RESTORE ALL DISTURBED CURBING, PAVEMENT, STRIPING AND LANDSCAPING TO THE ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER.

E. CONDUITS DEPICTED IN EXISTING CONDITIONS ARE RECENTLY INSTALLED PIPES. REFER TO THE PORT - PL6 STORMWATER STORAGE TANK DRAWINGS.

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	SB			
Drawn by	SB			
Checked by	EO	No.	Description	Date
Approved by	DVH	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: CIVIL - PLAN
PARKING LOT 6 @ BISHOP ALLEN DRIVE

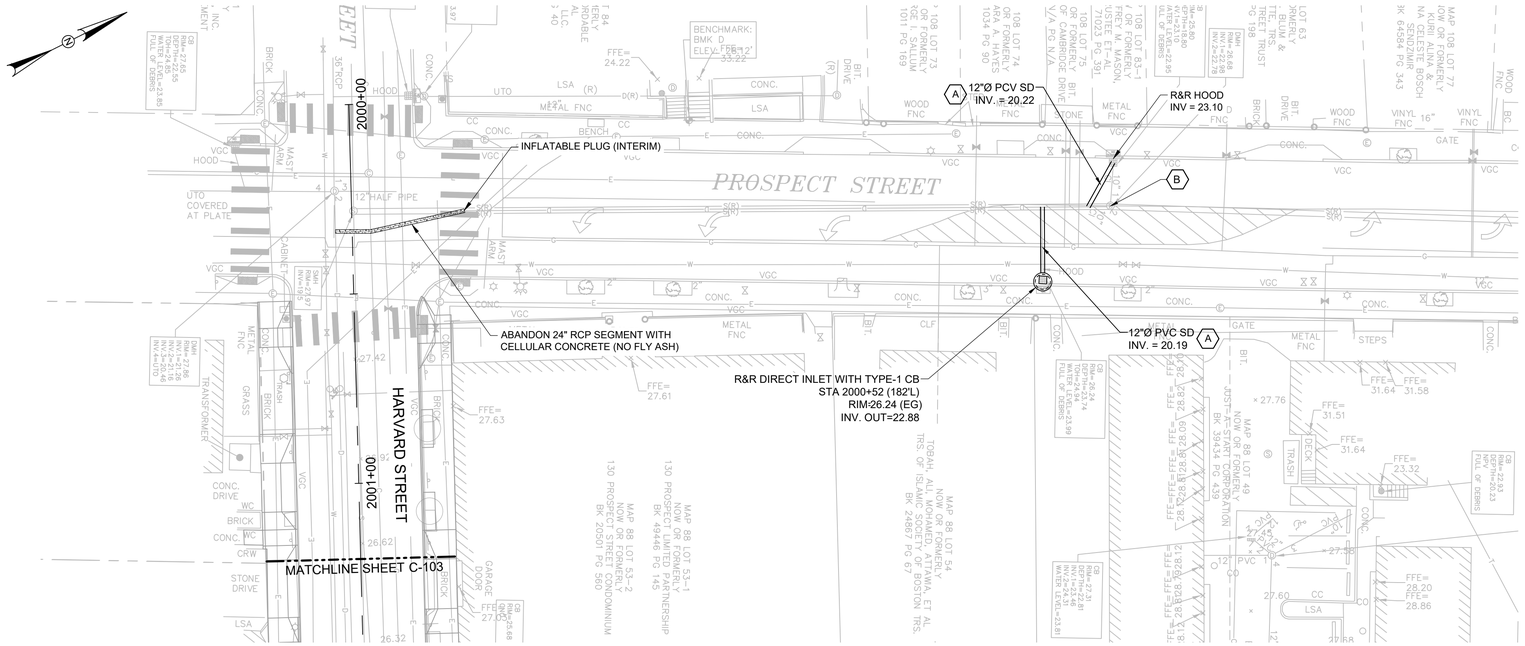
Sheet: C-125

File No.: 30724

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Plot date: 12/15/2025 6:34:17 PM

PROSPECT STREET



PLAN
SCALE: 1"=20'

GENERAL SHEET NOTES

1. CONTRACTOR TO CONDUCT ILLICIT CONNECTION SURVEY (SEE SPECIFICATION SECTION 02535) UPON COMPLETION OF SEWER AND DRAIN IMPROVEMENTS, AND REDIRECT ILLICIT LATERALS IDENTIFIED BY THE ENGINEER.
2. CONTRACTOR SHALL REFER TO GC-6 DETAIL 17-19 FOR CONNECTIONS BETWEEN ALL PROPOSED AND EXISTING SEWER/DRAINAGE PIPELINES.

SHEET KEYNOTES

A. REDIRECT CB LATERAL TO BRICK SEWER WITH CORED CONNECTION.

B. INSTALL PLACARD WITHIN DMH INDICATING "INACTIVE DRAIN".

HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

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COMMONWEALTH OF MASSACHUSETTS
CHRISTIAN E. OLANDER
CIVIL
No. 50676
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Scale	AS NOTED			
Date	APRIL 2026			
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Approved by	DVH	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: CIVIL - PLAN
PROSPECT STREET @ HARVARD STREET

Sheet: C-126

File No.: 30724

CAD FILE: C:\Users\dvuhh\DC4ACDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_WIP\04_civil\sheet_files\Package_1\30200_C-126.dwg LAYOUT: C-126 BY: hvuhs, seb

Plot date: 12/16/2025 8:27:05 PM

WATER MAIN RESTRAINED LENGTHS TABLE

MINIMUM RESTRAINED LENGTHS	
Fitting	Restrained Length
4" DIAMETER	
4" – 90° BEND *	14–FEET IN EACH DIRECTION
4" – 45° BEND	6–FEET IN EACH DIRECTION
4" – 22.5° BEND	3–FEET IN EACH DIRECTION
4" – 11.25° BEND	2–FEET IN EACH DIRECTION
4" – 90° VERTICAL DOWN BEND *	21–FEET IN EACH DIRECTION
4" – 45° VERTICAL DOWN BEND	11–FEET IN EACH DIRECTION
4" – 22.5° VERTICAL DOWN BEND	5–FEET IN EACH DIRECTION
4" – 11.25° VERTICAL DOWN BEND	3–FEET IN EACH DIRECTION
4" – 90° VERTICAL UP BEND *	12–FEET IN EACH DIRECTION
4" – 45° VERTICAL UP BEND	4–FEET IN EACH DIRECTION
4" – 22.5° VERTICAL UP BEND	2–FEET IN EACH DIRECTION
4" – 11.25° VERTICAL UP BEND	1–FEET IN EACH DIRECTION
4" VALVE OR DEAD–END	25–FEET IN EACH DIRECTION
6" DIAMETER	
6" – 90° BEND *	20–FEET IN EACH DIRECTION
6" – 45° BEND	8–FEET IN EACH DIRECTION
6" – 22.5° BEND	4–FEET IN EACH DIRECTION
6" – 11.25° BEND	2–FEET IN EACH DIRECTION
6" – 90° VERTICAL DOWN BEND *	31–FEET IN EACH DIRECTION
6" – 45° VERTICAL DOWN BEND	15–FEET IN EACH DIRECTION
6" – 22.5° VERTICAL DOWN BEND	7–FEET IN EACH DIRECTION
6" – 11.25° VERTICAL DOWN BEND	4–FEET IN EACH DIRECTION
6" – 90° VERTICAL UP BEND *	17–FEET IN EACH DIRECTION
6" – 45° VERTICAL UP BEND	6–FEET IN EACH DIRECTION
6" – 22.5° VERTICAL UP BEND	3–FEET IN EACH DIRECTION
6" – 11.25° VERTICAL UP BEND	2–FEET IN EACH DIRECTION
6"X6"X6" TEE	35–FEET ALONG THE BRANCH
6"X4" REDUCER	18–FEET LARGER DIRECTION ONLY
6" VALVE OR DEAD END	35–FEET IN EACH DIRECTION
8" DIAMETER	
8" – 90° BEND *	26–FEET IN EACH DIRECTION
8" – 45° BEND	11–FEET IN EACH DIRECTION
8" – 22.5° BEND	6–FEET IN EACH DIRECTION
8" – 11.25° BEND	3–FEET IN EACH DIRECTION
8" – 90° VERTICAL DOWN BEND *	40–FEET IN EACH DIRECTION
8" – 45° VERTICAL DOWN BEND	19–FEET IN EACH DIRECTION
8" – 22.5° VERTICAL DOWN BEND	10–FEET IN EACH DIRECTION
8" – 11.25° VERTICAL DOWN BEND	5–FEET IN EACH DIRECTION
8" – 90° VERTICAL UP BEND *	23–FEET IN EACH DIRECTION
8" – 45° VERTICAL UP BEND	8–FEET IN EACH DIRECTION
8" – 22.5° VERTICAL UP BEND	4–FEET IN EACH DIRECTION
8" – 11.25° VERTICAL UP BEND	2–FEET IN EACH DIRECTION
8"X8"X8" TEE	46–FEET ALONG THE BRANCH
8"X8"X6" TEE	35–FEET ALONG THE BRANCH
8"X6" REDUCER	19–FEET LARGER DIRECTION ONLY
8" VALVE OR DEAD–END	46–FEET IN EACH DIRECTION
12" DIAMETER	
12" – 90° BEND *	36–FEET IN EACH DIRECTION
12" – 45° BEND	15–FEET IN EACH DIRECTION
12" – 22.5° BEND	8–FEET IN EACH DIRECTION
12" – 11.25° BEND	4–FEET IN EACH DIRECTION
12" – 90° VERTICAL DOWN BEND *	57–FEET IN EACH DIRECTION
12" – 45° VERTICAL DOWN BEND	27–FEET IN EACH DIRECTION
12" – 22.5° VERTICAL DOWN BEND	13–FEET IN EACH DIRECTION
12" – 11.25° VERTICAL DOWN BEND	7–FEET IN EACH DIRECTION
12" – 90° VERTICAL UP BEND *	32–FEET IN EACH DIRECTION
12" – 45° VERTICAL UP BEND	11–FEET IN EACH DIRECTION
12" – 22.5° VERTICAL UP BEND	5–FEET IN EACH DIRECTION
12" – 11.25° VERTICAL UP BEND	3–FEET IN EACH DIRECTION
12"X12"X30" TEE	144–FEET ALONG THE BRANCH
12"X12"X12" TEE	65–FEET ALONG THE BRANCH
12"X12"X10" TEE	55–FEET ALONG THE BRANCH
12"X12"X8" TEE	46–FEET ALONG THE BRANCH
12"X12"X6" TEE	35–FEET ALONG THE BRANCH
12"X10" REDUCER	19–FEET LARGER DIRECTION ONLY
12" VALVE OR DEAD–END	65–FEET IN EACH DIRECTION
16" DIAMETER	
16" – 90° BEND *	46–FEET IN EACH DIRECTION
16" – 45° BEND	19–FEET IN EACH DIRECTION
16" – 22.5° BEND	10–FEET IN EACH DIRECTION
16" – 11.25° BEND	5–FEET IN EACH DIRECTION
16" – 45° VERTICAL DOWN BEND	35–FEET IN EACH DIRECTION
16" – 22.5° VERTICAL DOWN BEND	17–FEET IN EACH DIRECTION
16" – 11.25° VERTICAL DOWN BEND	9–FEET IN EACH DIRECTION
16" – 45° VERTICAL UP BEND	14–FEET IN EACH DIRECTION
16" – 22.5° VERTICAL UP BEND	7–FEET IN EACH DIRECTION
16" – 11.25° VERTICAL UP BEND	4–FEET IN EACH DIRECTION
16"X16"X6" TEE	35–FEET ALONG THE BRANCH
16"X16"X4" TEE	25–FEET LARGER DIRECTION ONLY
16" VALVE OR DEAD–END	84–FEET IN EACH DIRECTION

NOTES:

1. LENGTHS SHOWN ARE BASED ON 150 PSI TEST PRESSURE, 4-FOOT BURY, SOIL TYPE GP, TRENCH TYPE 3, AND A 2:1 SAFETY FACTOR. CHANGES IN CONDITIONS WILL REQUIRE REVISION IN LENGTHS.

* 90-DEGREE BENDS ARE ONLY ALLOWED WITH EXPRESS APPROVAL FROM THE CAMBRIDGE WATER DEPARTMENT.

WATER MAIN NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE CAMBRIDGE WATER DEPARTMENT (CWD) STANDARDS.
2. CWD WILL NOT ISSUE NEW WATER CONSTRUCTION PERMITS UNTIL ALL REQUIREMENTS FOR PREVIOUS (I.E., INITIAL CWD PERMIT) CWD PERMITS ARE MET. THESE REQUIREMENTS INCLUDE; ACCURATE AND LEGIBLE SWING TIE DIMENSIONS TO ALL NEW WATER MAIN GATE VALVES, TEE'S AND ELBOW'S. REQUIRED CWD "SIGN OFF'S" ON THE CONTRACTOR'S COPY OF THE CWD EXECUTED PERMIT (WHEN PERMITTED WORK IS COMPLETED), TEST DOCUMENTATION THAT INCLUDES MASSACHUSETTS STATE CERTIFIED INITIAL CHLORINATION AND BACTERIA TESTING OF NEW WATER MAIN WORK, AND PRESSURE TEST RESULTS OF NEW WATER MAIN WORK. THE CONTRACTOR IS HEREBY ADVISED THAT THE CWD WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SLIP IN PROJECT SCHEDULE IF THESE REQUIREMENTS FOR PERMITS ARE NOT FOLLOWED.
3. CONTRACTOR SHALL FURNISH AND INSTALL BYPASS PIPING AS NECESSARY TO MAINTAIN SERVICE FOR ALL WATER SERVICES WITHIN THE LIMITS OF WATER MAIN PROPOSED TO BE REPLACED AS INDICATED ON THE PLANS. REFER TO SPECIFICATIONS FOR INSTALLATION, TESTING, MAINTENANCE AND REMOVAL PROCEDURES.
4. ROADWAY, DRIVEWAY, AND SIDEWALK CROSSINGS FOR TEMPORARY WATER MAIN AND SERVICES SHALL BE BURIED BELOW GRADE. FURNISH AND INSTALL TEMPORARY PAVEMENT TO MATCH EXISTING GRADE.
5. UNLESS OTHERWISE NOTED, WATER MAINS SHALL BE INSTALLED WITH MINIMUM 4.0' COVER. ALL SERVICE LATERALS AND FITTINGS SHALL BE INSTALLED WITH A MINIMUM OF 3.5' OF COVER.
6. IF COVER FOR WATER MAIN IS LESS THAN 4.0', OR COVER FOR LATERALS AND SERVICES IS LESS THAN 3.5', THE CWD MUST BE NOTIFIED TO REVIEW CONDITIONS ON SITE. CONTRACTOR SHALL INSTALL INSULATION THE FULL LENGTH OF PIPE THAT DOES NOT MEET THE MINIMUM COVER REQUIREMENTS.
7. CONTRACTOR TO PROVIDE 1" CHLORINATION TAP AT ALL LOCATIONS WHERE PROPOSED WATER MAIN CONNECTS TO EXISTING WATER MAIN. ALL CORPS TO BE REMOVED AND PLUGS INSTALLED AT THE TAPS PRIOR TO NEW MAIN BEING PLACED INTO SERVICE.
8. WATER VALVE BOXES AND HYDRANTS SHALL BE INSTALLED TO EXISTING GRADE AND ADJUSTED TO FINAL GRADE ELEVATIONS DURING SURFACE RESTORATION WORK.
9. ALL NEW AND RELOCATED HYDRANTS TO BE FLOW TESTED IN COORDINATION WITH THE CWD AND PAINTED PER THE CWD SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH CWD FOR PAINT SPECIFICATIONS/COLOR.
10. ALL ELBOWS, TEES, VALVES, FITTINGS, AND CONNECTIONS TO BE PROPERLY RESTRAINED PER CWD STANDARDS.
11. CONTROLLED LOW STRENGTH MATERIAL SHALL NOT BE USED AROUND WATER MAIN, WATER VALVES OR VALVE BOXES. CONTRACTOR TO PROVIDE ACCEPTABLE PROTECTIVE LAYER BETWEEN DUCTILE IRON AND CONTROLLED LOW STRENGTH MATERIAL AND USE A NON-FLY ASH MATERIAL APPROVED BY THE ENGINEER.
12. IF LOCATION OF EXISTING CURB STOP IS INACCESSIBLE FOR REPLACEMENT, CONTRACTOR TO COORDINATE WITH CWD TO DETERMINE LOCATION OF NEW CURB STOP PRIOR TO INSTALLATION.
13. FOR WATER SERVICES GREATER THAN 1" IN SIZE. CONTRACTOR TO INSTALL VALVE BOX AT THE MAIN PER DETAILS. WATER SERVICES 1-1/4" IN SIZE SHALL BE REPLACED TO THE BACK OF SIDEWALK WITH 1-1/2" SERVICES.
14. CONTRACTOR TO PRESSURE TEST AND DISINFECT PER CWD STANDARDS. REFER TO SPECIFICATIONS FOR DISINFECTION PROCEDURES.
15. FOR ALL EXISTING DUCTILE IRON SERVICES, CONTRACTOR TO RECONNECT WITH DUCTILE IRON OF EQUAL SIZE UNLESS OTHERWISE NOTED.
16. FOR ALL EXISTING CAST IRON SERVICES, CONTRACTOR TO REPLACE THE CAST IRON WITH DUCTILE IRON TO THE BUILDING FACE OR PROPERTY LINE WITH DUCTILE IRON OF EQUAL SIZE.
17. FOR ANY BUILDING THAT IS SIX STORIES OR LARGER, CONTRACTOR TO INSTALL A MINIMUM OF A 2" SERVICE FROM THE MAIN TO THE EXISTING CURB STOP. A NEW VALVE BOX SHALL BE PLACED IN THE STREET. THE NEW 2" WATER SERVICE SHALL BE REDUCED TO EXISTING JUST BEFORE THE EXISTING CURB STOP.
18. IF REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING RIGHT-OF-ENTRY AND COORDINATING INSPECTIONS OF WATER SERVICES WITH CWD AND BUILDING OWNER.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WATER SERVICE MATERIAL AND SIZE IN THE FIELD FOR MAKING PROPER WATER SERVICE CONNECTIONS AS REQUIRED DURING CONSTRUCTION.
20. REFER TO SPECIFICATIONS AND DETAILS FOR WATER SERVICE REPLACEMENT.
21. FOR WATER SERVICE RECONNECTION OR REPLACEMENT, MATCH EXISTING WATER SERVICE DIAMETER, BUT NOT LESS THAN 1" FROM MAIN TO CURB STOP.
22. IF A NON-COPPER SERVICE EXISTS BEYOND THE CURB STOP, CONTRACTOR SHALL REPLACE WITH MINIMUM 1" COPPER PIPE TO THE METER.
23. FOR SERVICES 3" OR LESS IN SIZE, THE CONTRACTOR SHALL REPLACE ALL PORTIONS OF THE NON-COPPER SERVICE FROM THE MAIN TO THE METER WITH COPPER PIPE.
24. CONTRACTOR SHALL VERIFY EXISTING SERVICE MATERIAL FROM INSPECTION AT THE WATER MAIN AND POINT OF CONNECTION.
    A. IF MATERIAL IS COPPER AT THE MAIN AND NON-COPPER AT THE METER, CONTRACTOR SHALL REPLACE ALL PORTIONS OF THE NON-COPPER SERVICE FROM THE MAIN TO THE METER WITH COPPER PIPE.
    B. IF MATERIAL IS NON-COPPER AT THE MAIN AND METER, CONTRACTOR SHALL REPLACE EXISTING SERVICE FROM THE MAIN TO THE METER WITH COPPER PIPE.
    C. IF MATERIAL IS COPPER AT THE MAIN AND COPPER AT THE POINT OF CONNECTION, NO FURTHER INVESTIGATION IS REQUIRED UNLESS OTHERWISE INDICATED.
25. WATER SERVICE INTERRUPTIONS TO RESIDENTIAL PROPERTIES SHALL BE SCHEDULED TO START AFTER 9:00 A.M. UNLESS OTHERWISE INDICATED OR AGREED TO BY CWD. THE CONTRACTOR SHALL BE PREPARED TO WORK OFF HOURS TO AVOID WATER INTERRUPTIONS DURING BUSINESS HOURS AT THE FOLLOWING LOCATIONS: 50 ESSEX STREET, 55 ESSEX STREET, 116 NORFOLK STREET, 180 WINDSOR STREET AND 102 COLUMBIA STREET. ALL OFF-HOURS WORK WILL REQUIRE THE CONTRACTOR TO OBTAIN A NOISE VARIANCE.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EVERY WATER SERVICE CURB STOP TO DETERMINE IF THE CURB STOP IS A "FULL-TURN" OR "QUARTER-TURN" STYLE CURB STOP PRIOR TO PLACING SIDEWALK. THIS REQUIREMENT SHALL BE FOR ALL WATER SERVICES IN THE PROJECT AREA, WHETHER THE ASSOCIATED MAIN OR SERVICE IS BEING REPLACED OR NOT. ALL NON-"QUARTER TURN" CURB STOPS SHALL BE REPLACED WITH "QUARTER-TURN" STYLE CURB STOPS.
27. CONTRACTOR TO COORDINATE WATER MAIN INSTALLATION WITH PROPOSED DRAIN AND SEWER INFRASTRUCTURE SUCH THAT THE NEW WATER MAIN AND SERVICES WILL NOT INTERFERE WITH THE PROPOSED DRAIN AND SEWER INFRASTRUCTURE.

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	ERM				
Drawn by	LJS				
Checked by	BMS	No.	Description	Date	
Approved by	BMS	REVISIONS			

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

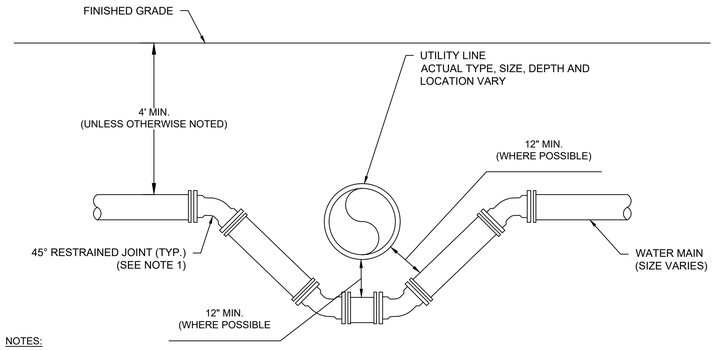
Drawing: UTILITY GENERAL
GENERAL NOTES

Sheet: UG-1

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Utility\Production Drawings\PORT-KLF-Utility General_General Notes And Service Data.dwg LAYOUT: UG-1 BY: peter garland

Plot date - 12/16/2025 2:03:42 PM



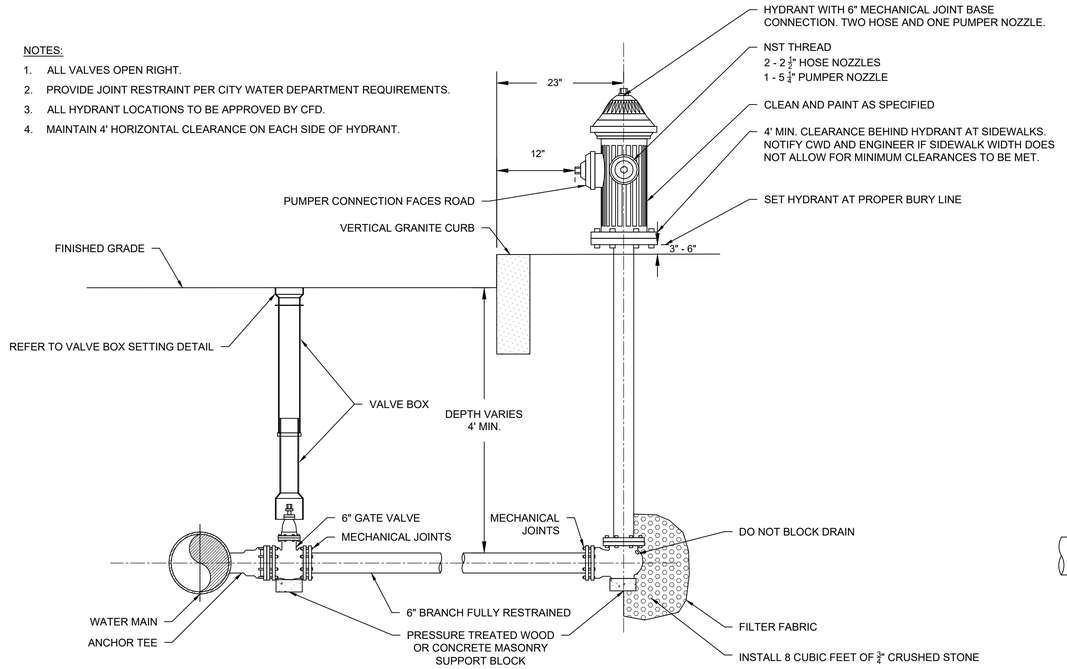
NOTES:

1. CONTRACTOR TO UTILIZE FITTINGS ONLY WHEN PIPE DEFLECTION CANNOT BE USED TO CLEAR OBSTRUCTION.
2. ALL CROSSINGS TO BE UNDER UTILITY UNLESS OTHERWISE NOTED.
3. FOR WATER MAIN CROSSING UNDER SEWER MAINS, REFER TO CONCRETE ENCASEMENT DETAIL.
4. INSULATE ALL SMALL DIAMETER WATER MAIN (UNDER 16") HAVING LESS THAN 4'-0" COVER AND ALL LARGE DIAMETER WATER MAIN (16" OR LARGER) HAVING LESS THAN 3'-6" COVER FOR ENTIRE LENGTH OF PIPE NOT MEETING MINIMUM COVER DEPTH.

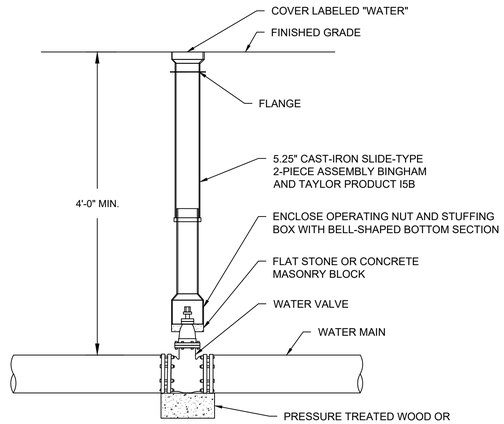
WATER MAIN UTILITY CROSSING
SCALE: N.T.S.

NOTES:

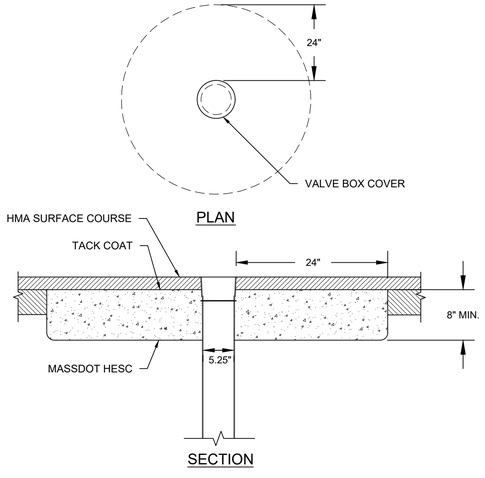
1. ALL VALVES OPEN RIGHT.
2. PROVIDE JOINT RESTRAINT PER CITY WATER DEPARTMENT REQUIREMENTS.
3. ALL HYDRANT LOCATIONS TO BE APPROVED BY CFD.
4. MAINTAIN 4' HORIZONTAL CLEARANCE ON EACH SIDE OF HYDRANT.



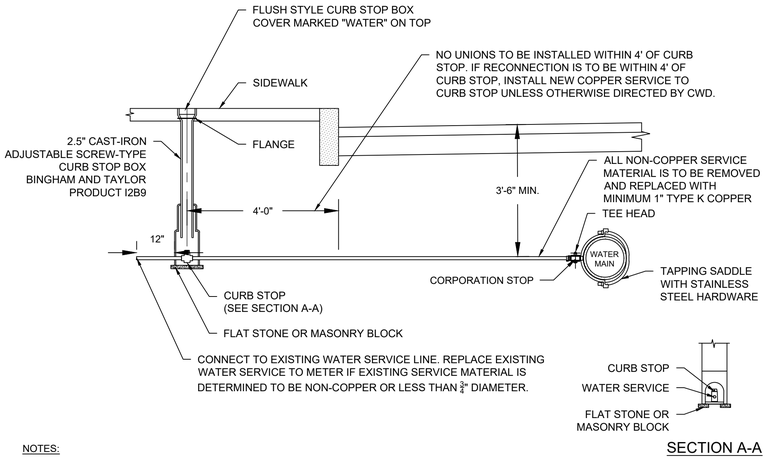
FIRE HYDRANT
SCALE: N.T.S.



WATER VALVE BOX
SCALE: N.T.S.



WATER VALVE BOX SETTING
SCALE: N.T.S.

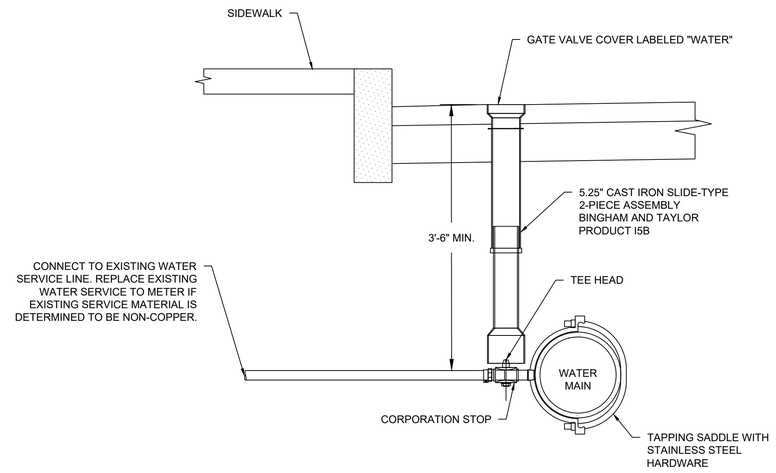


SECTION A-A

NOTES:

1. FLUSH ALL NEW SERVICE LINES PRIOR TO CONNECTING TO EXISTING.

WATER SERVICE - 1"
SCALE: N.T.S.



WATER SERVICE - 1.5" TO 3"
SCALE: N.T.S.

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	
Date	APRIL 2026
Job No.	20201034.009A
Designed by	TR
Drawn by	MR
Checked by	SS
Approved by	SS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS — THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

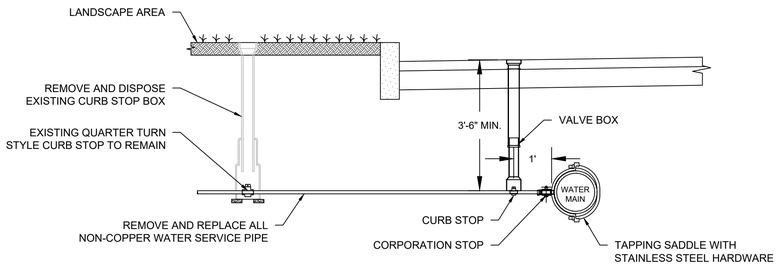
Drawing: UTILITY GENERAL
WATER MAIN DETAILS

Sheet: UG-2

File No.: 30724

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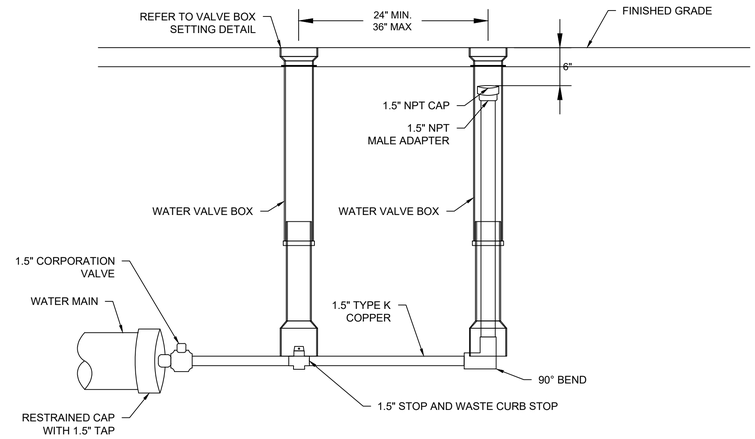


NOTES:

1. NO UNIONS TO BE INSTALLED WITHIN 4' OF CURB CURB STOP. IF RECONNECTION IS TO BE WITHIN 4' OF CURB STOP, INSTALL NEW COPPER TO CURB STOP UNLESS OTHERWISE DIRECTED BY CWD.

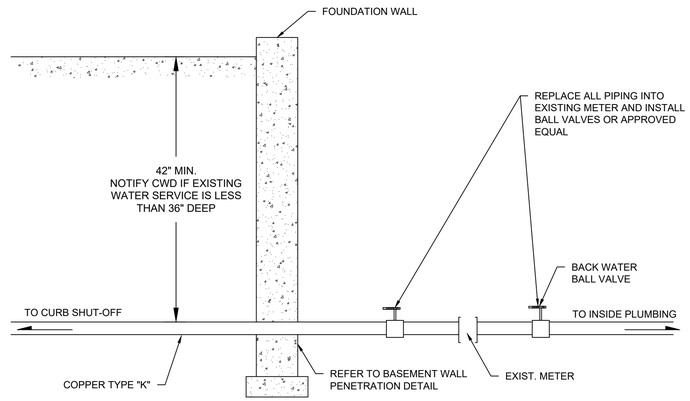
1" WATER SERVICE IN A LANDSCAPE AREA

SCALE: N.T.S.



WATER MAIN BLOWOFF

SCALE: N.T.S.

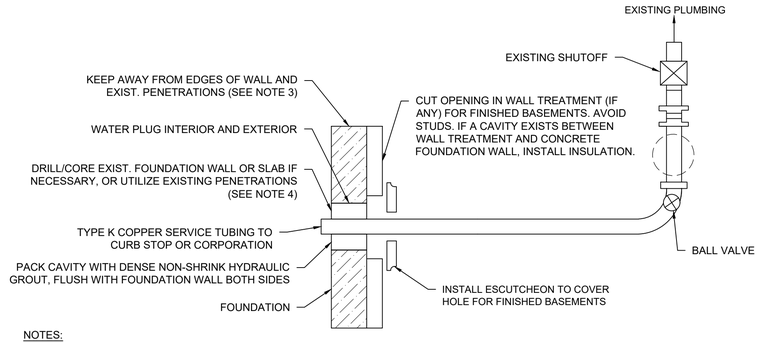


NOTES:

1. ONCE CONNECTION TO EXISTING IS COMPLETE, CONTRACTOR SHALL ASSIST CWD IN FLUSHING SERVICE LINES UP TO THE METER.

WATER SERVICE REPLACEMENT TO METER

SCALE: N.T.S.



NOTES:

1. REUSE EXISTING PENETRATION UNLESS EXISTING FOUNDATION WALL/SLAB SERVICE PENETRATION IS DETERMINED TO BE TOO SHALLOW OR INACCESSIBLE FOR SERVICE REPLACEMENT BY ENGINEER.
2. FLUSH SERVICE LINE AT METER AS NECESSARY.
3. KEEP EDGE OF CORE AT LEAST 12" FROM TOP, BOTTOM, OR SIDE OF WALL, AND AT LEAST 12" FROM DOORS, WINDOWS, OR OTHER EXISTING PENETRATIONS.
4. FOR MOST TYPES OF CONSTRUCTION, PROVIDE CORE AND DENSE HYDRAULIC CEMENT AS DESCRIBED ABOVE. FOR CMU WALLS, IF BLOCK IS NOT FILLED, FILL CAVITY WITH GROUT BEFORE INSTALLING PIPE. IF BLOCK CRUMBLES DURING CORING OPERATION, CHIP OUT ENTIRE BLOCK, FILL CAVITY BELOW, AND PACK SPACE VACATED BY BLOCK WITH DENSE HYDRAULIC CEMENT. FOR FIELDSTONE WALL, PROVIDE MORTAR OR PLASTIC LEVELING SURFACE IF REQUIRED TO FACILITATE CORING.

BASEMENT WALL/SLAB PENETRATION

SCALE: N.T.S.

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51654
REGISTERED PROFESSIONAL ENGINEER

Scale				
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	ERM			
Drawn by	LJS			
Checked by	BMS	No.	Description	Date
Approved by	BMS	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY GENERAL
WATER MAIN DETAILS

Sheet: UG-3

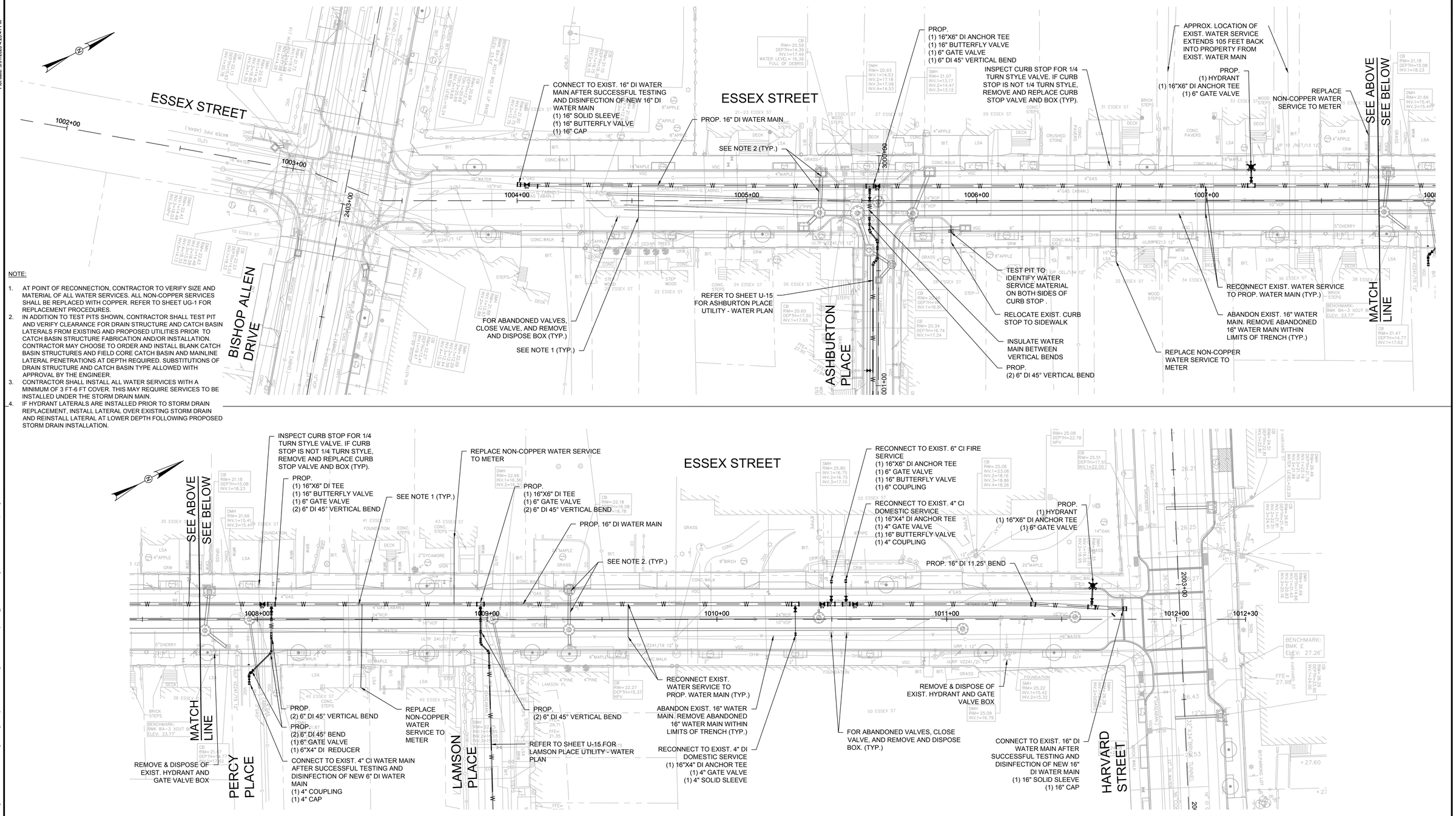
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Plot date: 3/31/2026 4:23:41 PM

NOTE:

1. AT POINT OF RECONNECTION, CONTRACTOR TO VERIFY SIZE AND MATERIAL OF ALL WATER SERVICES. ALL NON-COPPER SERVICES SHALL BE REPLACED WITH COPPER. REFER TO SHEET UG-1 FOR REPLACEMENT PROCEDURES.
2. IN ADDITION TO TEST PITS SHOWN, CONTRACTOR SHALL TEST PIT AND VERIFY CLEARANCE FOR DRAIN STRUCTURE AND CATCH BASIN LATERALS FROM EXISTING AND PROPOSED UTILITIES PRIOR TO CATCH BASIN STRUCTURE FABRICATION AND/OR INSTALLATION. CONTRACTOR MAY CHOOSE TO ORDER AND INSTALL BLANK CATCH BASIN STRUCTURES AND FIELD CORE CATCH BASIN AND MAINLINE LATERAL PENETRATIONS AT DEPTH REQUIRED. SUBSTITUTIONS OF DRAIN STRUCTURE AND CATCH BASIN TYPE ALLOWED WITH APPROVAL BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL ALL WATER SERVICES WITH A MINIMUM OF 3 FT-6 FT COVER. THIS MAY REQUIRE SERVICES TO BE INSTALLED UNDER THE STORM DRAIN MAIN.
4. IF HYDRANT LATERALS ARE INSTALLED PRIOR TO STORM DRAIN REPLACEMENT, INSTALL LATERAL OVER EXISTING STORM DRAIN AND REINSTALL LATERAL AT LOWER DEPTH FOLLOWING PROPOSED STORM DRAIN INSTALLATION.



0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
ESSEX STREET STA. 1000+00 TO STA. 1012+30

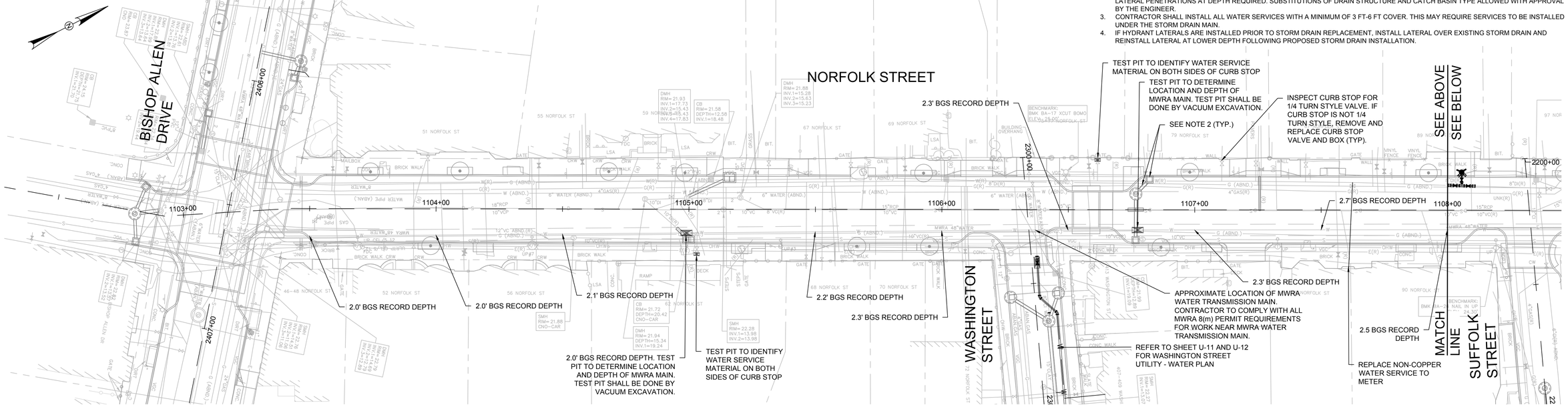
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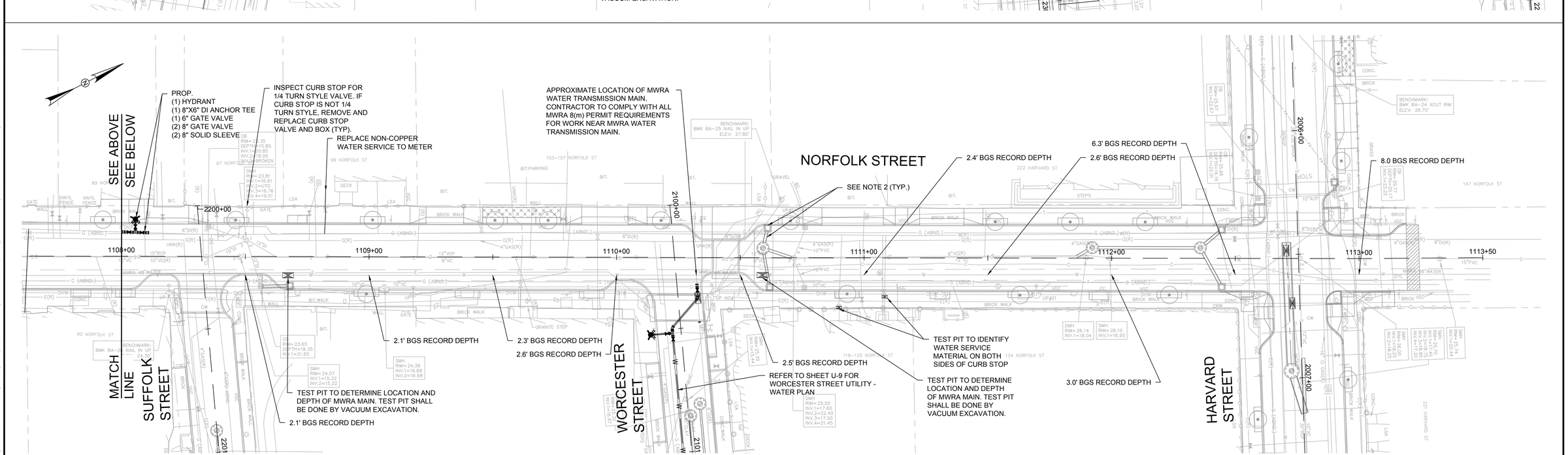
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Plot date: 3/31/2026 3:05:03 PM

NOTE:
1. AT POINT OF RECONNECTION, CONTRACTOR TO VERIFY SIZE AND MATERIAL OF ALL WATER SERVICES. ALL NON-COPPER SERVICES SHALL BE REPLACED WITH COPPER. REFER TO SHEET UG-1 FOR REPLACEMENT PROCEDURES.
2. IN ADDITION TO TEST PITS SHOWN, CONTRACTOR SHALL TEST PIT AND VERIFY CLEARANCE FOR DRAIN STRUCTURE AND CATCH BASIN LATERALS FROM EXISTING AND PROPOSED UTILITIES PRIOR TO CATCH BASIN STRUCTURE FABRICATION AND/OR INSTALLATION. CONTRACTOR MAY CHOOSE TO ORDER AND INSTALL BLANK CATCH BASIN STRUCTURES AND FIELD CORE CATCH BASIN AND MAINLINE LATERAL PENETRATIONS AT DEPTH REQUIRED. SUBSTITUTIONS OF DRAIN STRUCTURE AND CATCH BASIN TYPE ALLOWED WITH APPROVAL BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL ALL WATER SERVICES WITH A MINIMUM OF 3 FT-6 FT COVER. THIS MAY REQUIRE SERVICES TO BE INSTALLED UNDER THE STORM DRAIN MAIN.
4. IF HYDRANT LATERALS ARE INSTALLED PRIOR TO STORM DRAIN REPLACEMENT, INSTALL LATERAL OVER EXISTING STORM DRAIN AND REINSTALL LATERAL AT LOWER DEPTH FOLLOWING PROPOSED STORM DRAIN INSTALLATION.





0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: UTILITY - WATER
NORFOLK STREET STA. 1100+00 TO STA. 1113+50

Sheet: U-2
File No.: 30724

Plot date - 12/15/2025 6:31:48 PM
BY: peter gatland
LAYOUT: U-3
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Utility\Production Drawings\PORT-KLF-Utility Water_Columbia Street.dwg

COLUMBIA STREET

TEST PIT TO IDENTIFY LOCATION AND OWNER OF TWO INTRUDING UTILITIES IN STORM DRAIN. ONE INTRUDING UTILITY IS SUSPECTED WATER SERVICE, WHICH CONTRACTOR SHALL RELOCATE OUT OF STORM DRAIN FOLLOWING CONFIRMATION WITH CWD. CONTRACTOR TO COORDINATE WITH OWNER OF SECOND UNKNOWN INTRUDING UTILITY FOR RELOCATION.

INSPECT CURB STOP FOR 1/4 TURN STYLE VALVE. IF CURB STOP IS NOT 1/4 TURN STYLE, REMOVE AND REPLACE CURB STOP VALVE AND BOX (TYP).

REMOVE EXIST. HYDRANT ABANDON EXIST. GATE VALVE CLOSED. REMOVE AND DISPOSE BOX.

PROP.
(1) 12"X6" DI ANCHOR TEE
(1) 6" GATE VALVE
(1) HYDRANT

APPROX. LOCATION OF EXIST. WATER SERVICE EXTENDS 163. FEET INTO PROPERTY FROM EXIST. WATER MAIN

SEE NOTE 2

TEST PIT TO IDENTIFY WATER SERVICE MATERIAL ON PRIVATE SIDE OF CURB STOP

SEE ABOVE

SEE BELOW

1200+00 1201+00 1202+00 1203+00 1204+00 1205+00

2412+00 2413+00

BISHOP ALLEN DRIVE

PROP 12" DI WATER MAIN

PROP
(2) 12" DI 45° BENDS
(1) 12" SOLID SLEEVE

PROP
(1) 12" GATE VALVE

SEE NOTE 5

CONNECT TO EXIST.
12" GATE VALVE AFTER SUCCESSFUL TESTING AND DISINFECTION OF NEW 12" DI WATER MAIN
(1) 12" CAP

TEST PIT TO IDENTIFY WATER SERVICE MATERIAL ON BOTH SIDES OF CURB STOP

RECONNECT TO EXIST. 4" DI DOMESTIC SERVICE
(1) 12"X4" DI ANCHOR TEE
(1) 4" GATE VALVE
(1) 4" SOLID SLEEVE

RECONNECT TO EXIST. 6" DI FIRE SERVICE
(1) 12"X6" DI ANCHOR TEE
(1) 6" GATE VALVE
(1) 12" GATE VALVE
(1) 6" SOLID SLEEVE

RECONNECT EXIST. WATER SERVICE TO PROP.WATER MAIN (TYP.)

MORGAN PARK

MATCH LINE

SEE ABOVE

SEE BELOW

WASHINGTON STREET

REFER TO SHEET U-11 AND U-12 FOR WASHINGTON STREET UTILITY - WATER PLAN

REFER TO SHEET U-10 FOR SUFFOLK STREET UTILITY - WATER PLAN

CONNECT PROP. 8" GATE VALVE TO EXIST. 8" DI WATER MAIN

REPLACE NON-COPPER WATER SERVICE TO METER (TYP.).

SUFFOLK STREET

COLUMBIA STREET

PROP.
(1) 12"X6" DI ANCHOR TEE
(1) 6" GATE VALVE
(1) 12" GATE VALVE
(1) HYDRANT
(4) 6" DI 45° VERTICAL BEND

SEE NOTE 4

SEE NOTE 2 (TYP.)

REFER TO SHEET U-9 FOR WORCESTER STREET UTILITY - WATER PLAN

WORCESTER STREET

SEE SHEET U-3

SEE SHEET U-4

1205+00 1206+00 1207+00 1208+00 1209+00 1210+00

2204+00 2205+00 2206+00 2206+05

PROP. 12" DI WATER MAIN

PROP.
(1) 12"X8" DI ANCHOR TEE
(1) 8" GATE VALVE
(2) 12" GATE VALVE

MARVIN PLACE

RECONNECT EXIST. WATER SERVICE TO PROP. WATER MAIN (TYP.)

PROP.
(1) 12"X8" DI TEE
(1) 8" GATE VALVE
(2) 12" GATE VALVE

INSPECT CURB STOP FOR 1/4 TURN STYLE VALVE. IF CURB STOP IS NOT 1/4 TURN STYLE, REMOVE AND REPLACE CURB STOP VALVE AND BOX (TYP).

REMOVE AND REPLACE EXIST. HYDRANT
(1) 12"X6" DI ANCHOR TEE
(1) 12" GATE VALVE
(1) 6" GATE VALVE
(1) HYDRANT

MATCH LINE

MATCH LINE

NOTE:
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5. WATER MAIN INSTALLATION ON COLUMBIA STREET IS SHOWN IN CLOSE PROXIMITY TO WATER MAIN AND EXISTING AND PROPOSED UTILITIES WHICH MAY RESULT IN REDUCED PRODUCTION RATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPACTS RESULTING FROM NORMAL VARIATION IN EXISTING UTILITY ALIGNMENTS. TO AVOID UTILITY CONFLICTS, CONTRACTOR MAY INSTALL WATER MAIN IN EXISTING LOCATION USING AN APPROVED WATER MAIN BYPASS SYSTEM AT NO ADDITIONAL COST TO THE CITY. ALL WATER MAIN BYPASS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 02685.

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

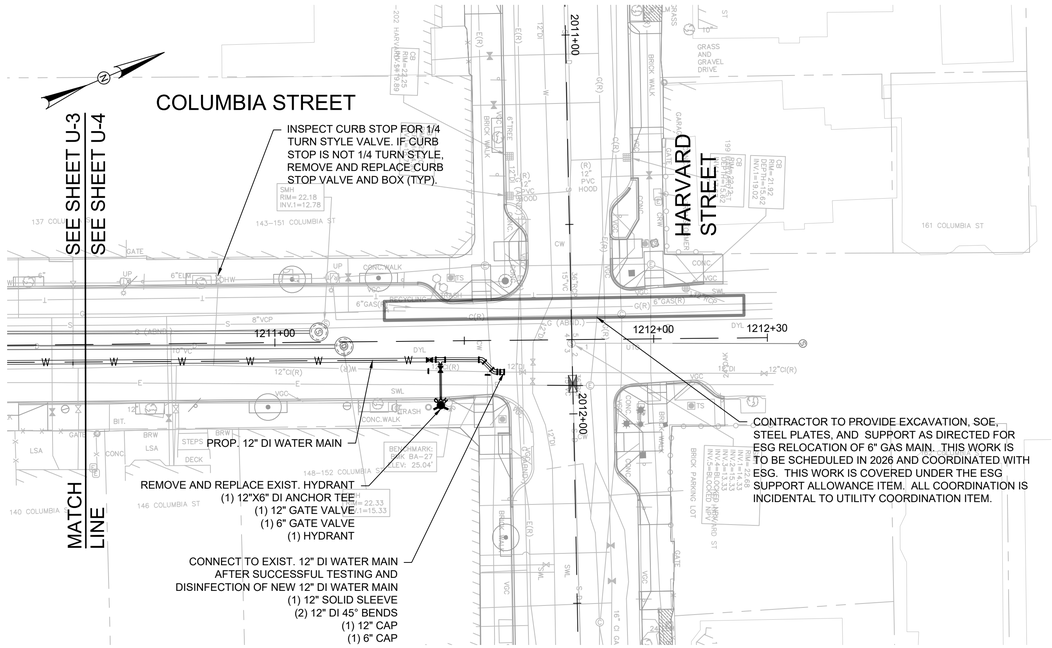
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
COLUMBIA STREET STA. 1201+25 TO STA. 1210+50

Sheet: U-3

File No.: 30724



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

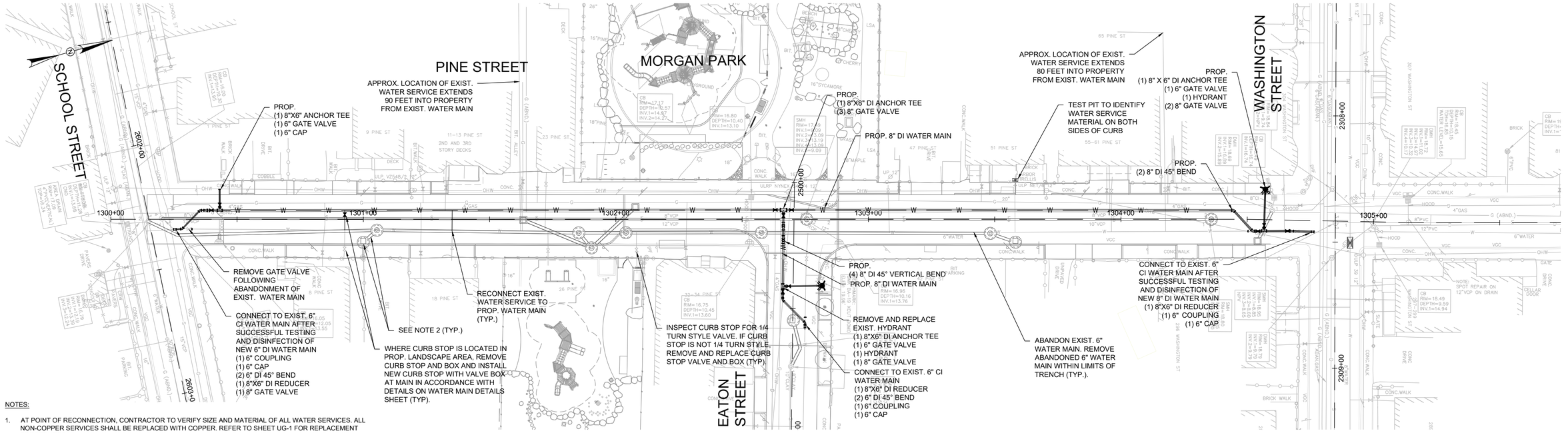
THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: UTILITY - WATER
COLUMBIA STREET STA. 1210+50 TO STA. 1212+30

Sheet: U-4
File No.: 30724

Plot date: 4/2/2026 9:10:37 AM
CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Utility\Production Drawings\PORT-KLF-Utility Water_Columbia Street.dwg LAYOUT: U-4 BY: peter garland

Plot date - 12/15/2025 6:39:08 PM



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0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

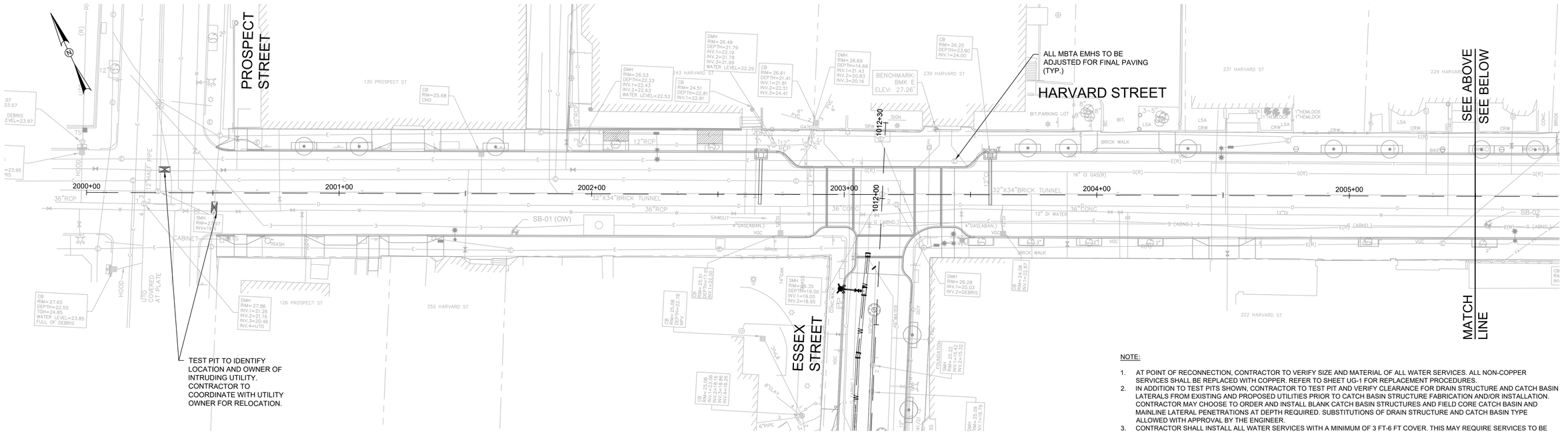
Drawing: UTILITY - WATER
PINE STREET STA. 1300+25 TO STA. 1305+00

Sheet: U-5

File No.: 30724

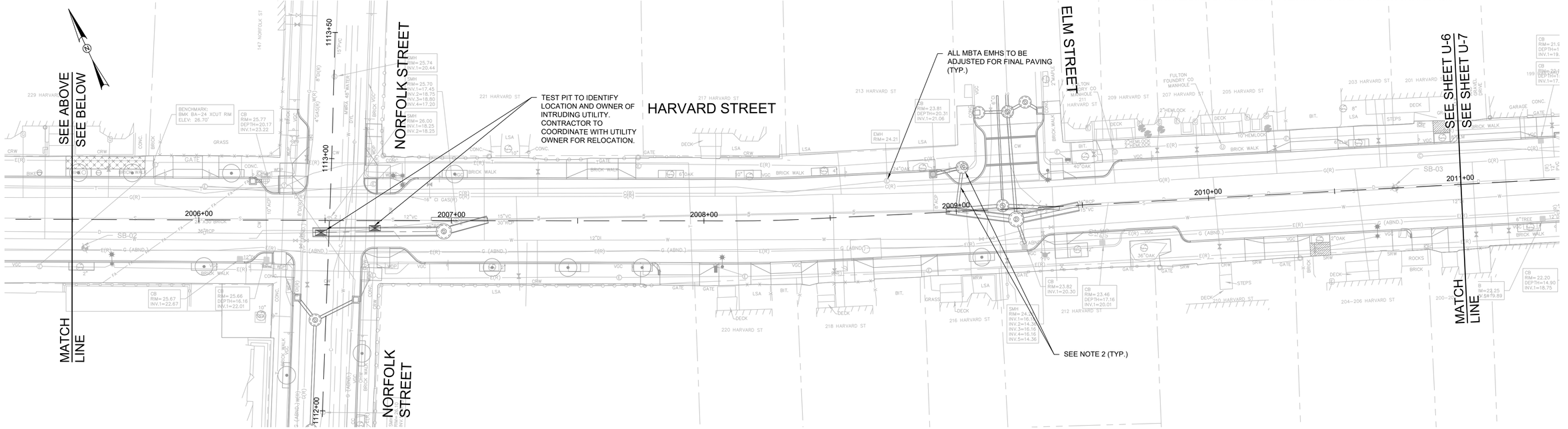
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Plot date: 12/15/2025 6:50:41 PM



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0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
HARVARD STREET STA. 2000+00 TO STA. 2011+00

Sheet: U-6

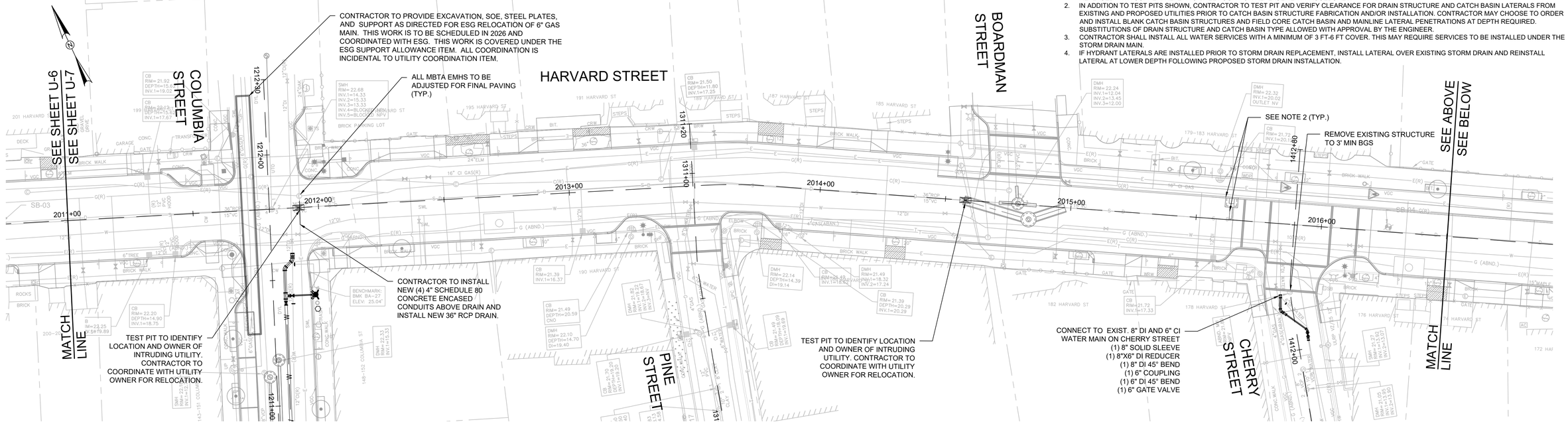
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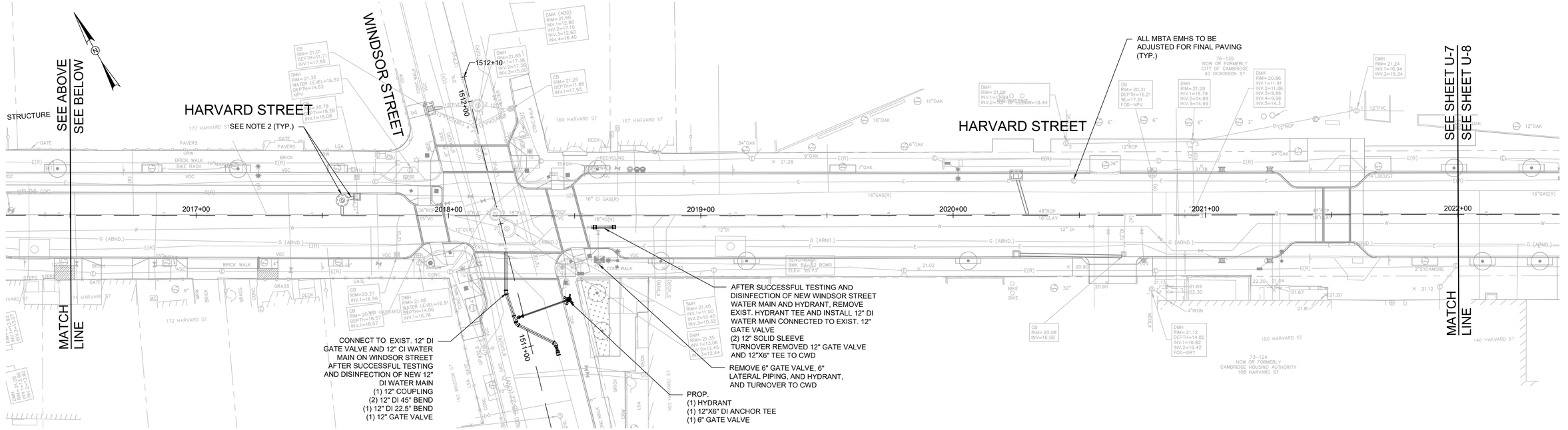
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Plot date: 12/15/2025 6:00:41 PM
LAYOUT: U-7 BY: peter gatland
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Inf\Working\Drawings\Utility\Production Drawings\PORT-KLF-Utility Water_Harvard Street.dwg

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0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

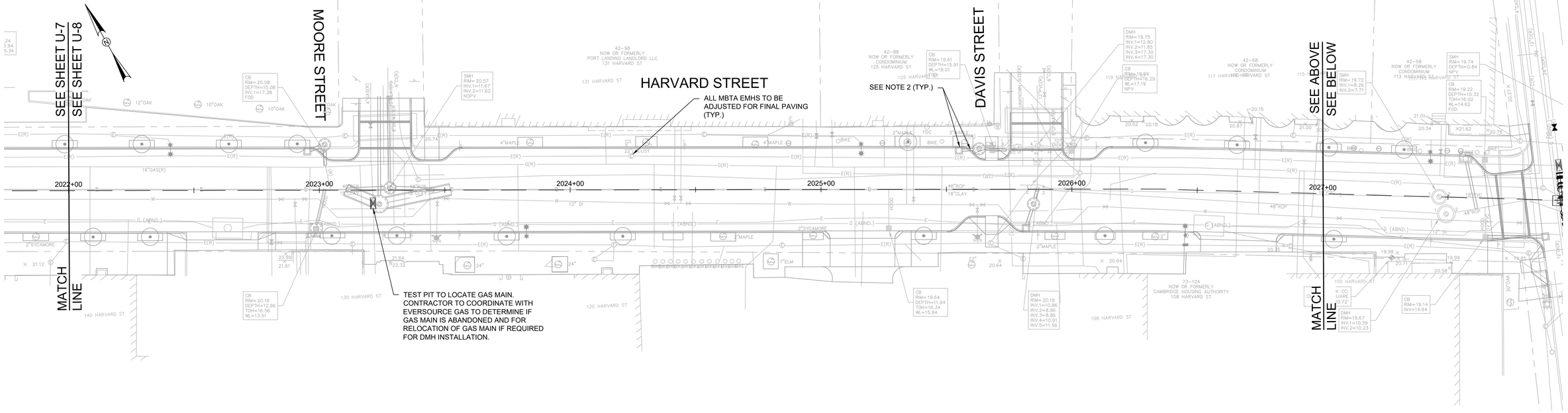
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

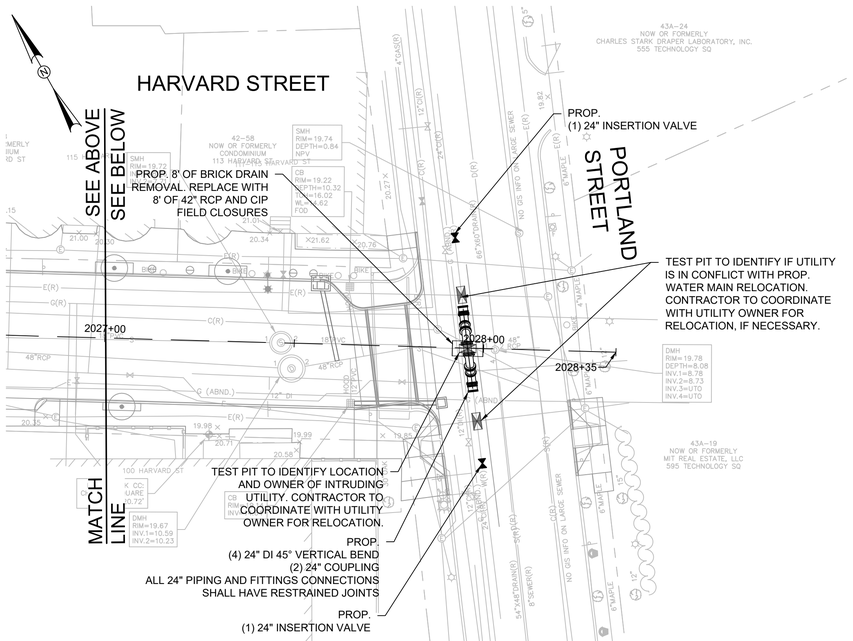
Drawing: UTILITY - WATER
HARVARD STREET STA. 2011+00 TO STA. 2022+00

Sheet: U-7

File No.: 30724

Plot date: 12/15/2025 6:50:41 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Utility\Production Drawings\PORT ALF-Utility Water_Harvard Street.dwg LAYOUT: U-8 BY: peter garland





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CONFORMED

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Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

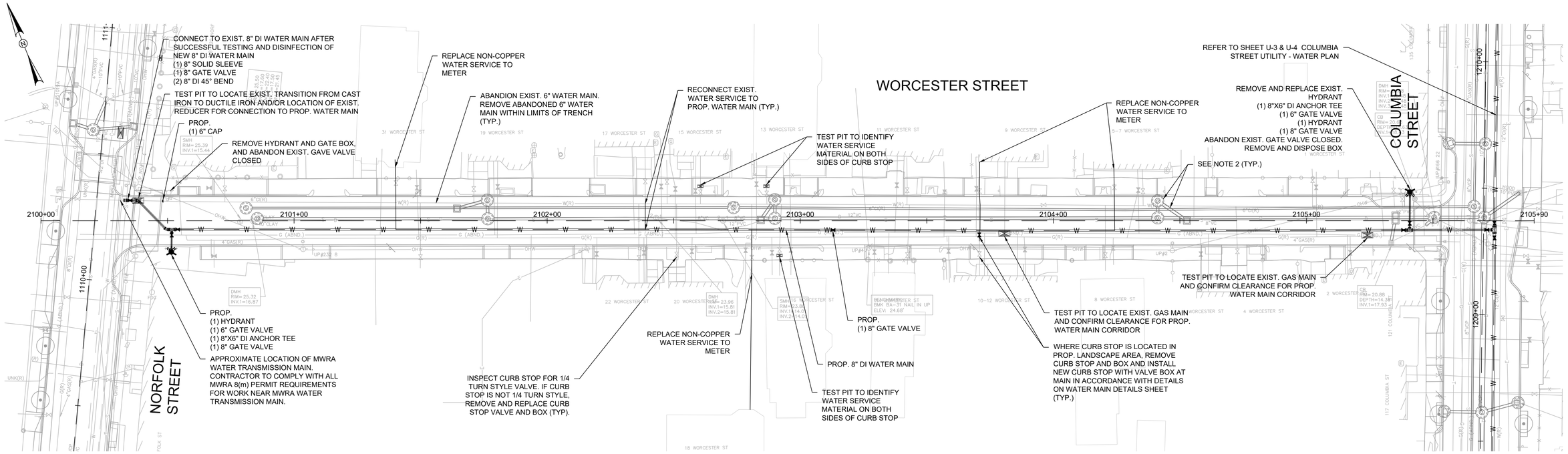
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
HARVARD STREET STA. 2022+00 TO STA. 2028+35

Sheet: U-8

File No.: 30724



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No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
WORCESTER STREET STA. 2100+00 TO STA. 2105+90

Sheet: U-9

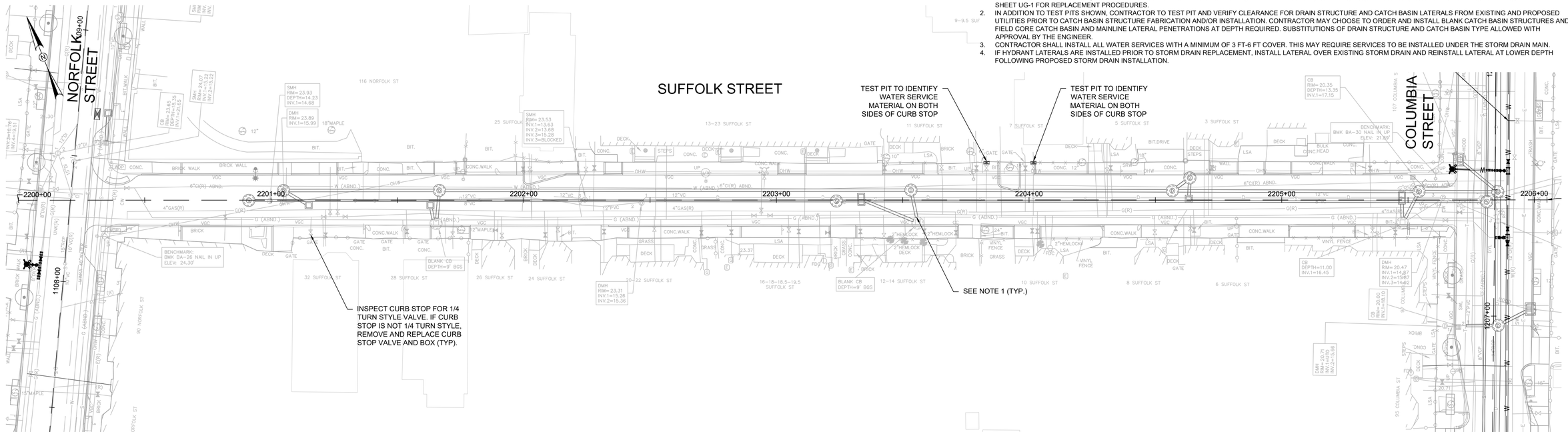
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CAD FILE: I:\City Of Cambridge (MA)\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Utility\Production Drawings\PORT-KLF-Utility Water_Worcester Street.dwg LAYOUT: U-9 BY: peter garland

Plot date: 12/15/2025 6:07:26 PM

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0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS — BENJAMIN M. STODDARD — CIVIL — No. 51854 — REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
SUFFOLK STREET STA. 2200+00 TO STA. 2206+05

Sheet: U-10

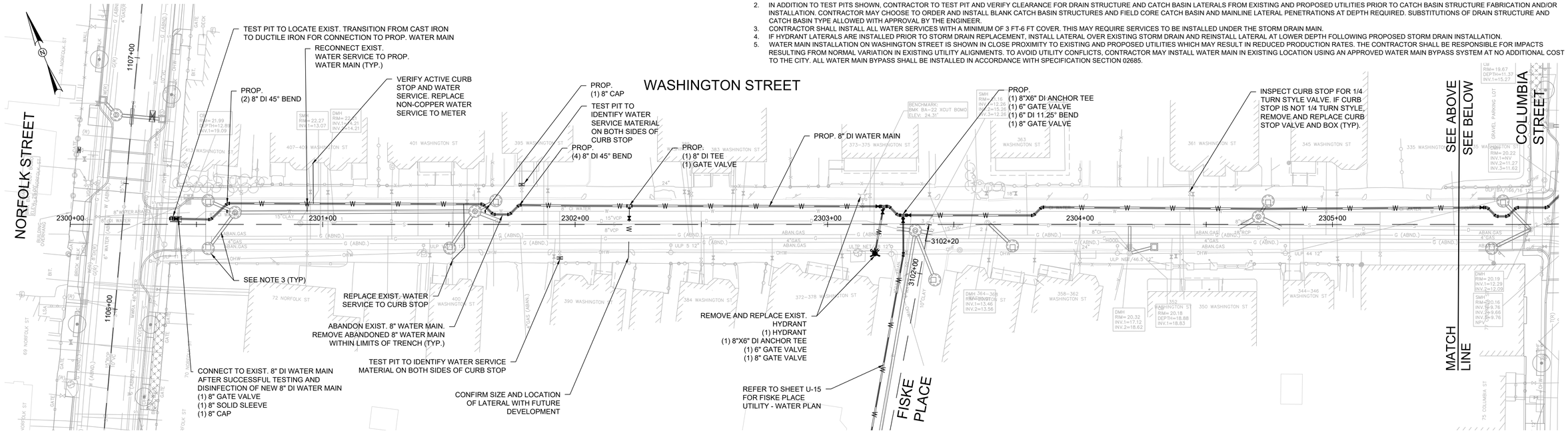
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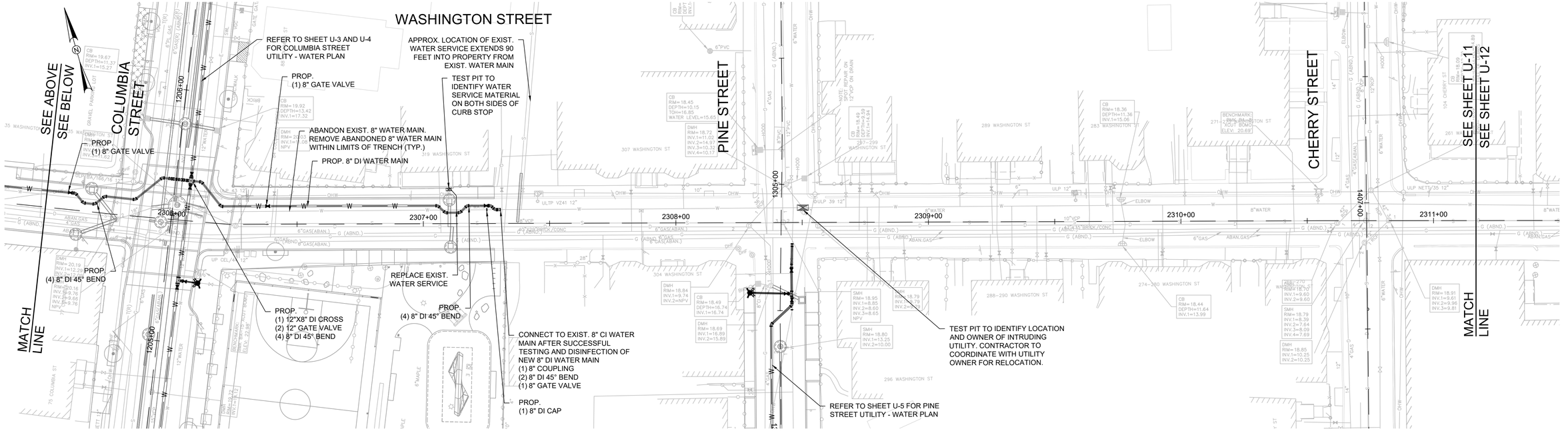
CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Utility\Production Drawings\PORT-KLF-Utility Water_Suffolk Street.dwg LAYOUT: U-10 BY: peter garland

Plot date: 12/15/2025 7:48:02 PM

NOTES:

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5. WATER MAIN INSTALLATION ON WASHINGTON STREET IS SHOWN IN CLOSE PROXIMITY TO EXISTING AND PROPOSED UTILITIES WHICH MAY RESULT IN REDUCED PRODUCTION RATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPACTS RESULTING FROM NORMAL VARIATION IN EXISTING UTILITY ALIGNMENTS. TO AVOID UTILITY CONFLICTS, CONTRACTOR MAY INSTALL WATER MAIN IN EXISTING LOCATION USING AN APPROVED WATER MAIN BYPASS SYSTEM AT NO ADDITIONAL COST TO THE CITY. ALL WATER MAIN BYPASS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 02685.





0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

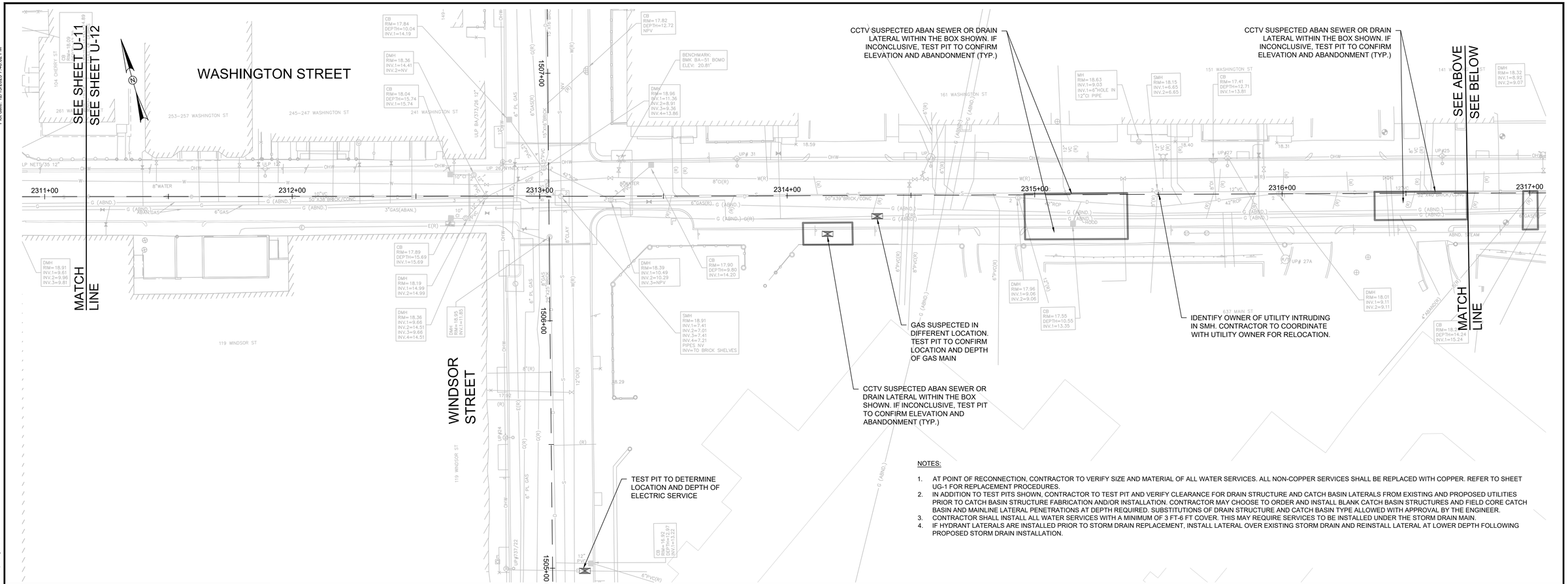
Drawing: UTILITY - WATER
WASHINGTON STREET STA. 2300+00 TO STA. 2311+25

Sheet: U-11

File No.: 30724

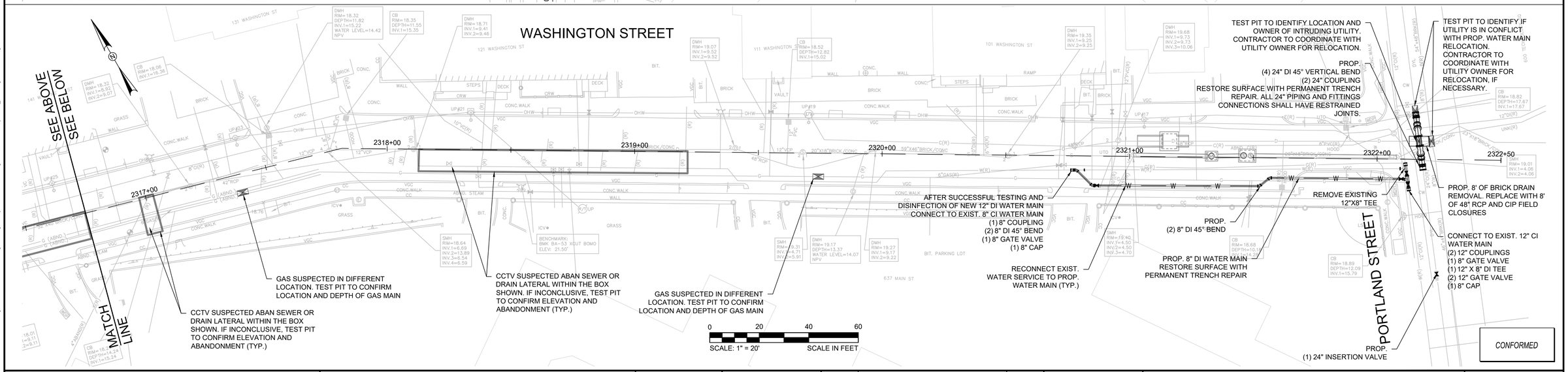
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NOTES:

1. AT POINT OF RECONNECTION, CONTRACTOR TO VERIFY SIZE AND MATERIAL OF ALL WATER SERVICES. ALL NON-COPPER SERVICES SHALL BE REPLACED WITH COPPER. REFER TO SHEET UG-1 FOR REPLACEMENT PROCEDURES.
2. IN ADDITION TO TEST PITS SHOWN, CONTRACTOR TO TEST PIT AND VERIFY CLEARANCE FOR DRAIN STRUCTURE AND CATCH BASIN LATERALS FROM EXISTING AND PROPOSED UTILITIES PRIOR TO CATCH BASIN STRUCTURE FABRICATION AND/OR INSTALLATION. CONTRACTOR MAY CHOOSE TO ORDER AND INSTALL BLANK CATCH BASIN STRUCTURES AND FIELD CORE CATCH BASIN AND MAINLINE LATERAL PENETRATIONS AT DEPTH REQUIRED. SUBSTITUTIONS OF DRAIN STRUCTURE AND CATCH BASIN TYPE ALLOWED WITH APPROVAL BY THE ENGINEER.
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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

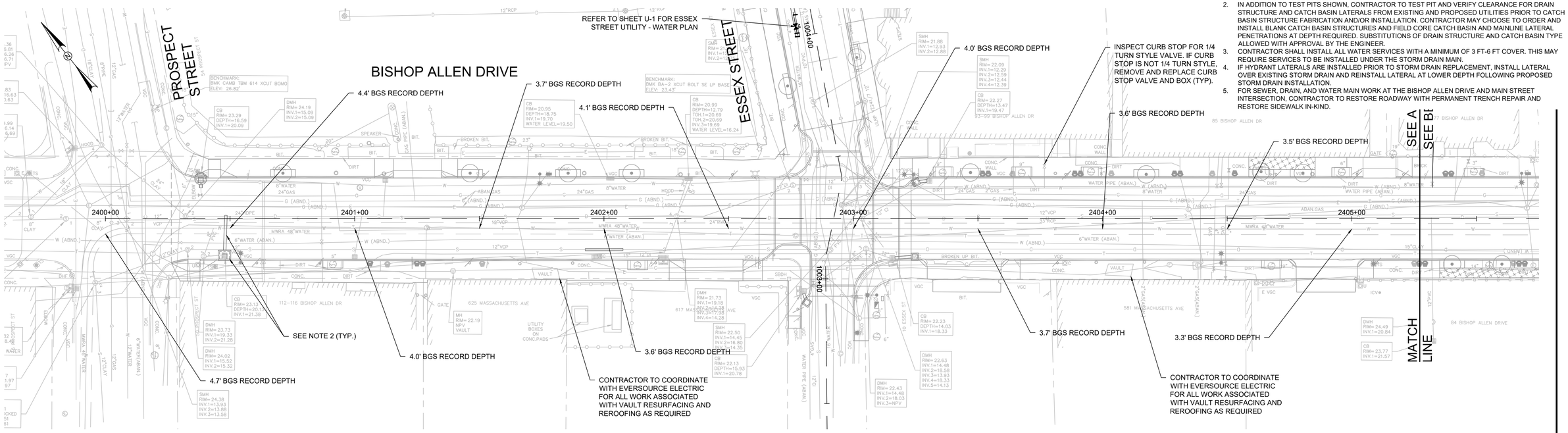
Drawing: UTILITY - WATER
WASHINGTON SREET STA. 2311+25 TO STA. 2322+50

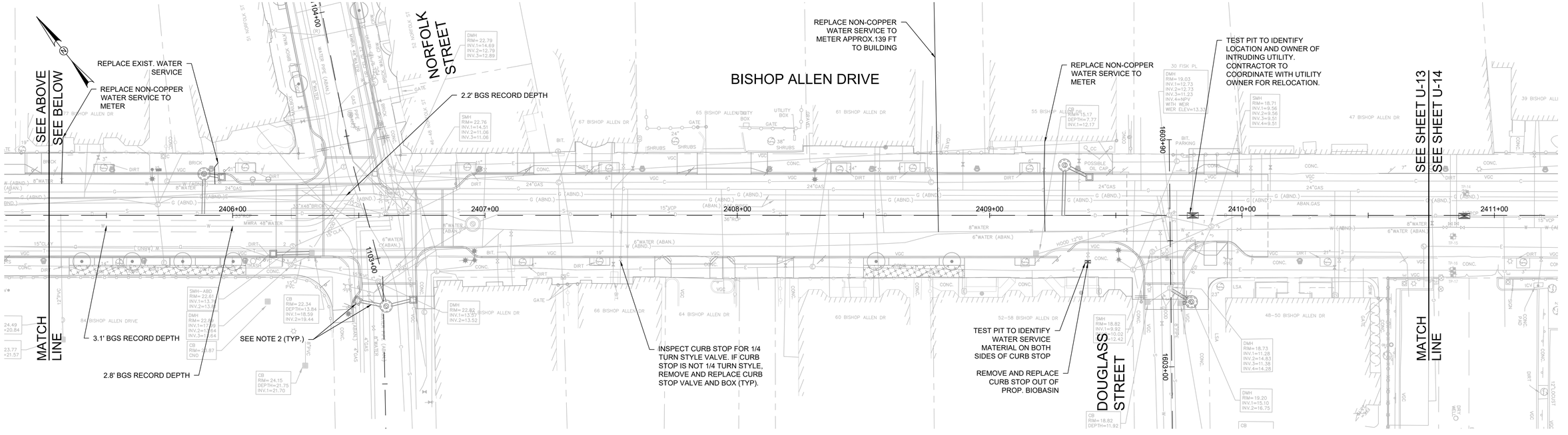
Sheet: U-12

File No.: 30724

NOTE:

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5. FOR SEWER, DRAIN, AND WATER MAIN WORK AT THE BISHOP ALLEN DRIVE AND MAIN STREET INTERSECTION, CONTRACTOR TO RESTORE ROADWAY WITH PERMANENT TRENCH REPAIR AND RESTORE SIDEWALK IN-KIND.





0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2410+75

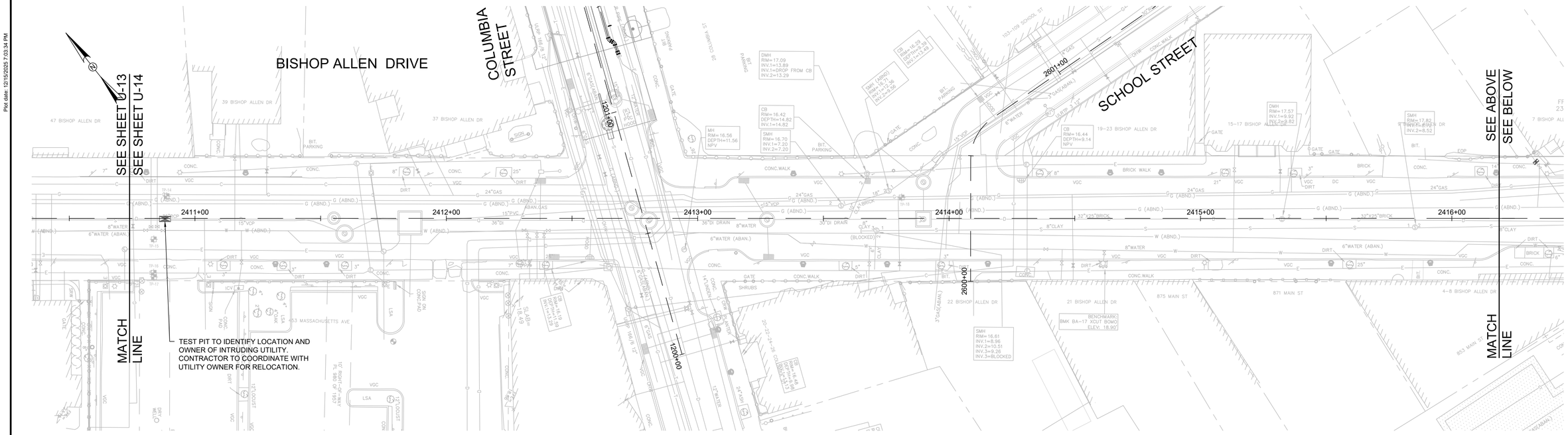
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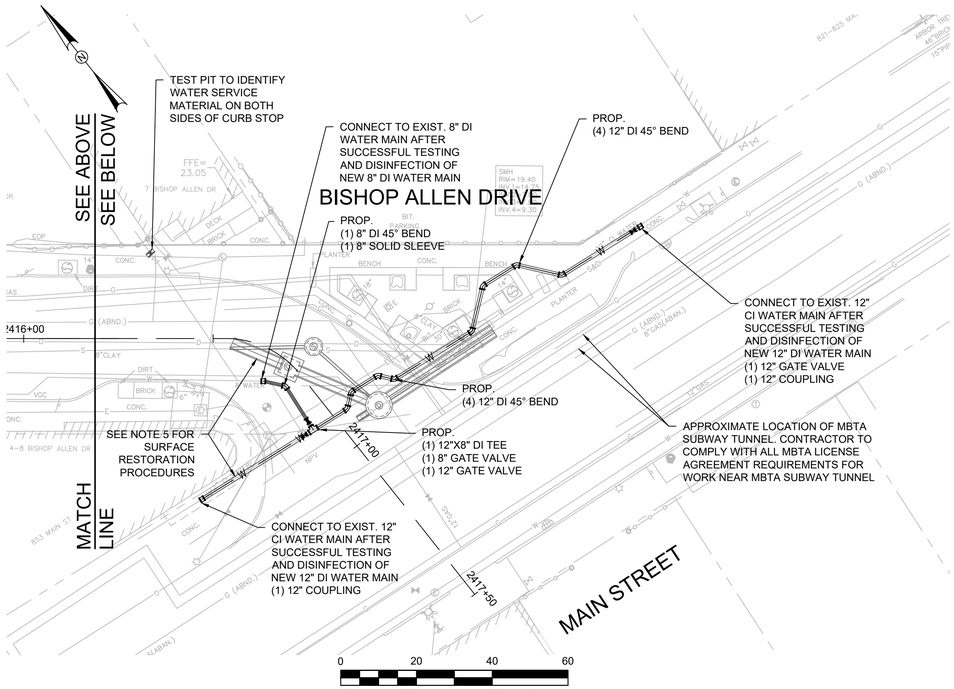
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NOTE:

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5. FOR SEWER, DRAIN, AND WATER MAIN WORK AT THE BISHOP ALLEN DRIVE AND MAIN STREET INTERSECTION, CONTRACTOR TO RESTORE ROADWAY WITH PERMANENT TRENCH REPAIR AND RESTORE SIDEWALK IN-KIND



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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
BISHOP ALLEN DRIVE STA. 2410+75 TO STA. 2412+25

Sheet: U-14

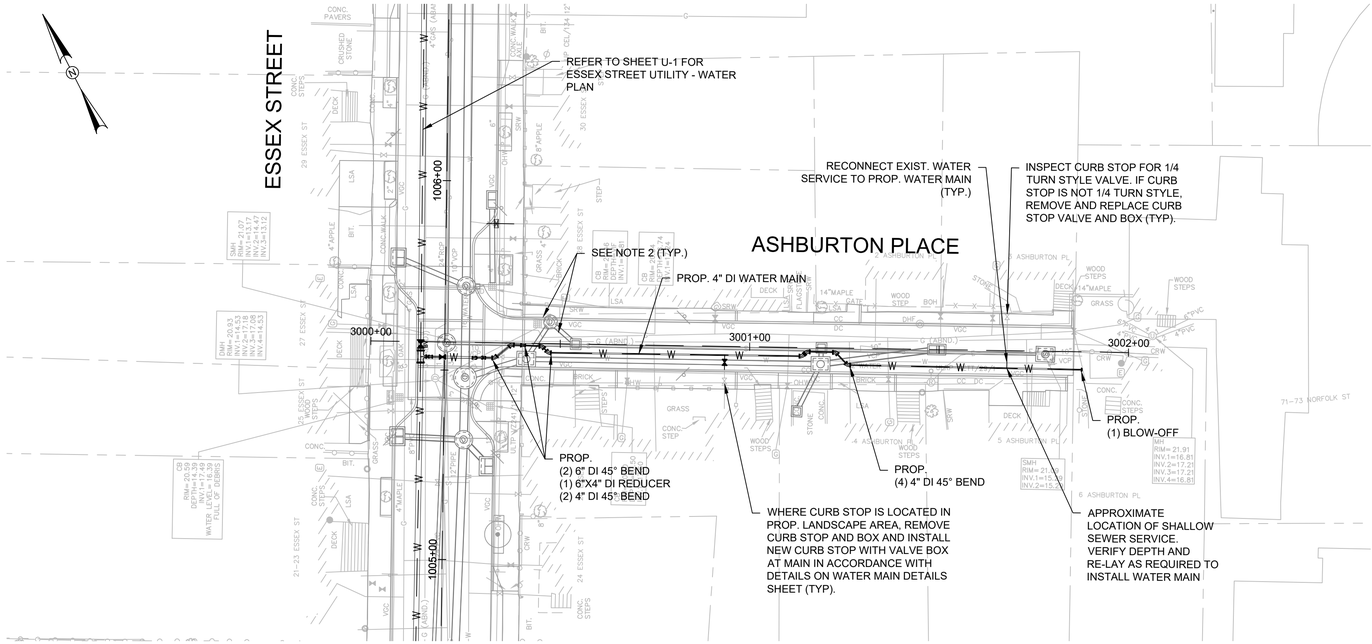
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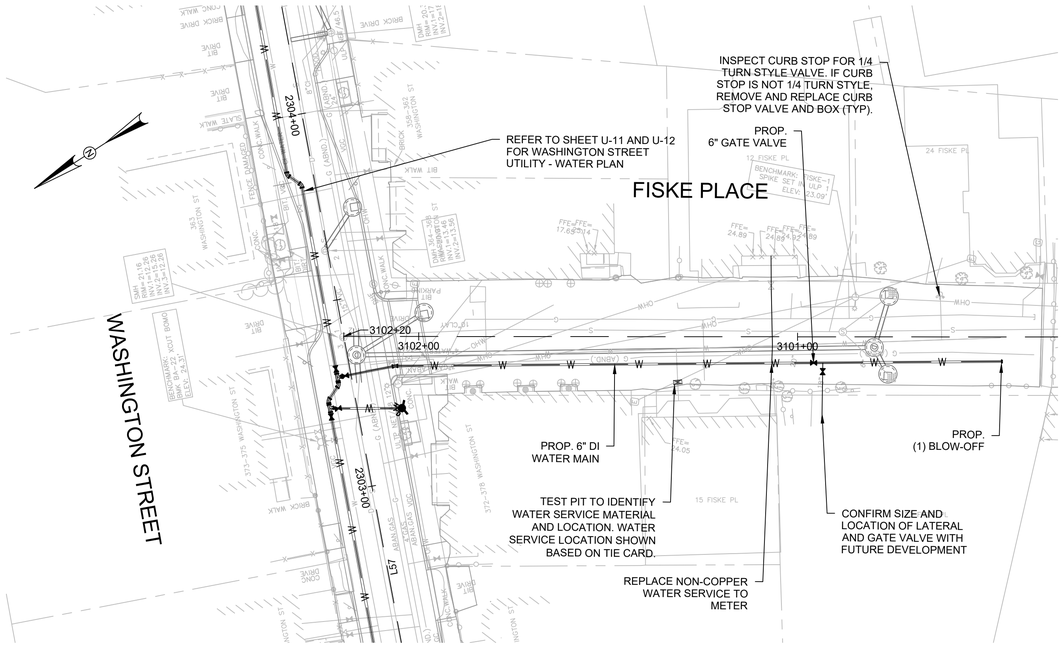
NOTE:

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4. IF HYDRANT LATERALS INSTALLED PRIOR TO STORM DRAIN REPLACEMENT, INSTALL LATERAL OVER EXISTING STORM DRAIN AND REINSTALL.
5. WATER MAIN INSTALLATION ON ASHBURTON PLACE AND LAMSON PLACE ARE SHOWN IN CLOSE PROXIMITY TO EXISTING AND PROPOSED UTILITIES WHICH MAY RESULT IN REDUCED PRODUCTION RATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPACTS RESULTING FROM NORMAL VARIATION IN EXISTING UTILITY ALIGNMENTS. TO AVOID UTILITY CONFLICTS, CONTRACTOR MAY INSTALL WATER MAIN IN EXISTING LOCATION USING AN APPROVED WATER MAIN BYPASS SYSTEM AT NO ADDITIONAL COST TO THE CITY. ALL WATER MAIN BYPASS SHALL BE INSTALLED IN ACCORDANCE WITH SPEC SECTION 02685.



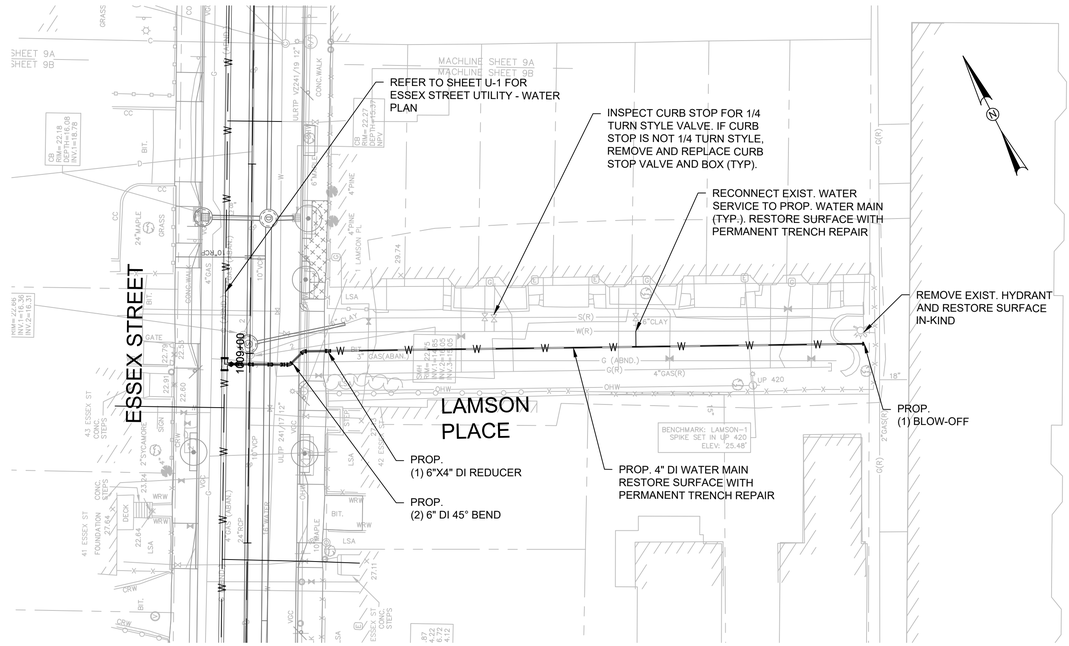
PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	ERM/PAF
Drawn by	PAF/LJS
Checked by	BMS
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

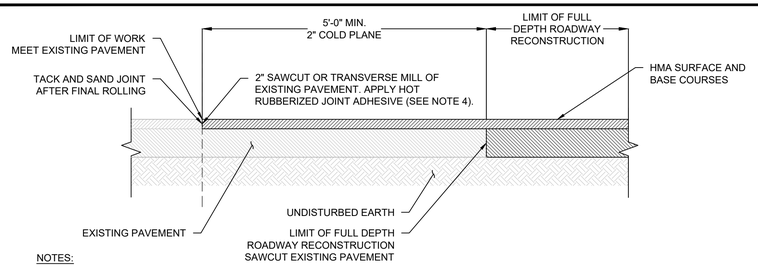
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: UTILITY - WATER
ASHBURTON PLACE, FISKE PLACE AND LAMSON PLACE

Sheet: U-15

File No.: 30724

Plot date: 1/13/2026 5:02:50 PM

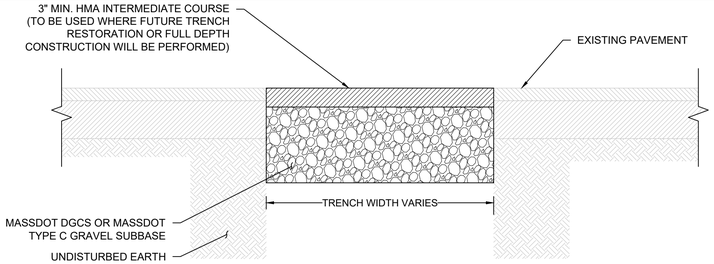


NOTES:

1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE, TACK COAT AND FINAL PAVEMENT.
2. APPLY TACK COAT TO COLD PLANED SURFACES PRIOR TO BEING OVERLAID AT THE RATE OF 0.05 GALLONS PER SQUARE YARD.
3. TEMPORARY PAVEMENT SHALL BE PLACED ALONG ANY LIP CREATED BY PAVEMENT REMOVAL. TEMPORARY PAVEMENT SHALL BE PLACED AT A SLOPE NOT STEEPER THAN 1V:3H.
4. USE OF A JACKHAMMER TO CREATE THE VERTICAL TRANSITION JOINT IS PROHIBITED.

PAVEMENT TRANSITION

SCALE: N.T.S.

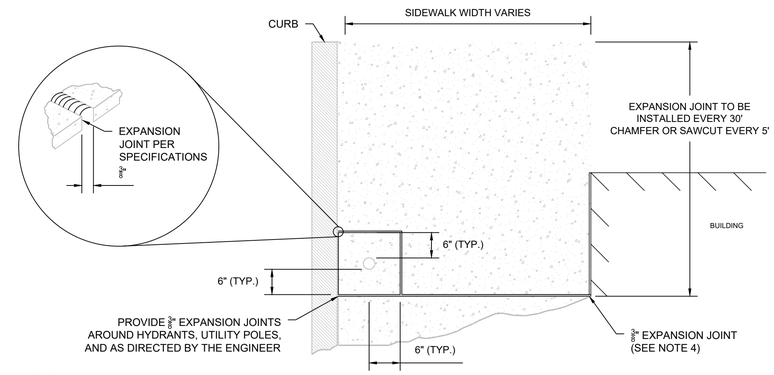


NOTES:

1. REMOVE AND DISPOSE ALL TEMPORARY PAVEMENT AS REQUIRED. RESTORE AND COMPACT SUBBASE AS REQUIRED PRIOR TO INSTALLATION OF TRENCH PAVEMENT.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY TRENCH CONDITION AT NO ADDITIONAL COST TO THE CITY.

TEMPORARY TRENCH PAVEMENT DETAIL

SCALE: N.T.S.

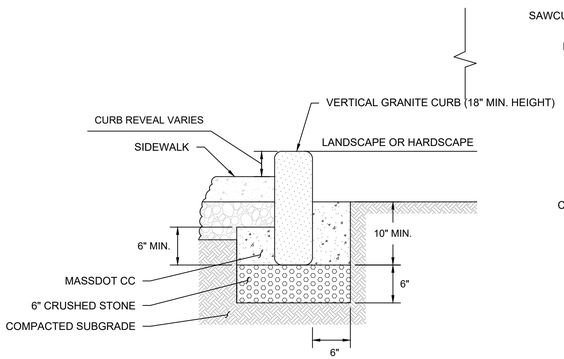


NOTES:

1. EXPANSION JOINTS SHALL BE INSTALLED AT BACK OF SIDEWALK STEPS, WALLS, BUILDINGS, AND OTHER STRUCTURES.
2. EXPANSION JOINTS AT BUILDINGS SHALL BE CAULKED WITH A POLYURETHANE JOINT SEALER.
3. EXPANSION JOINTS SHALL BE USED AT TRANSITIONS BETWEEN NEW AND EXISTING SIDEWALK JOINTS.
4. EXPANSION JOINTS OF 3/8-IN THICK FOAM OR FIBERBOARD SHALL BE PLACED EVERY 30 FEET PERPENDICULAR TO CURB ALIGNMENT EXTENDING THROUGH THE SIDEWALK DEPTH.

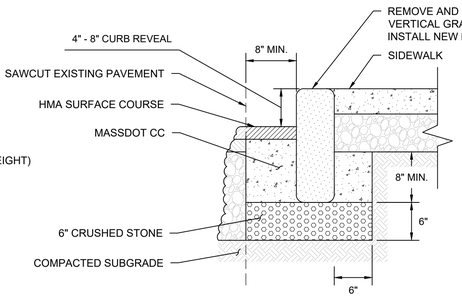
SIDEWALK EXPANSION JOINT

SCALE: N.T.S.



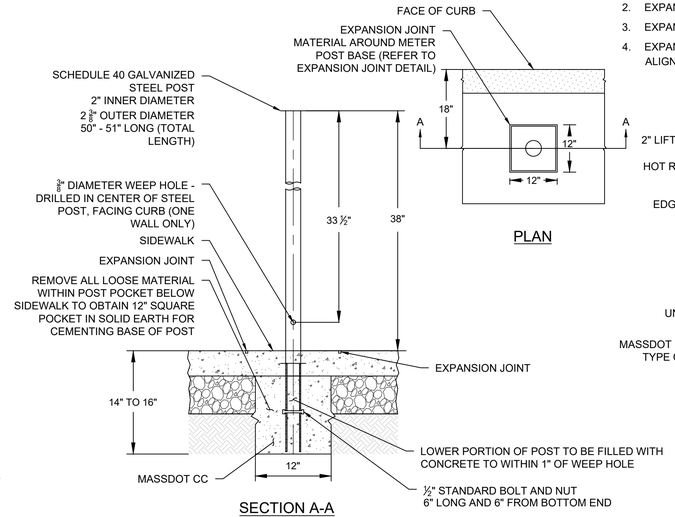
BACK OF SIDEWALK CURB

SCALE: N.T.S.



VERTICAL GRANITE CURB

SCALE: N.T.S.



PLAN

SECTION A-A

PARKING METER POST

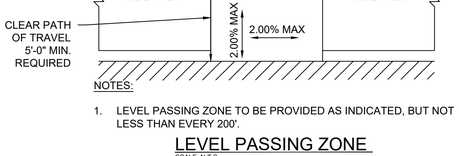
SCALE: N.T.S.

NOTES:

1. INTERMEDIATE PAVEMENT LIFTS SHALL NOT EXCEED 3" DEPTH.

TRENCH PAVEMENT DETAIL

SCALE: N.T.S.

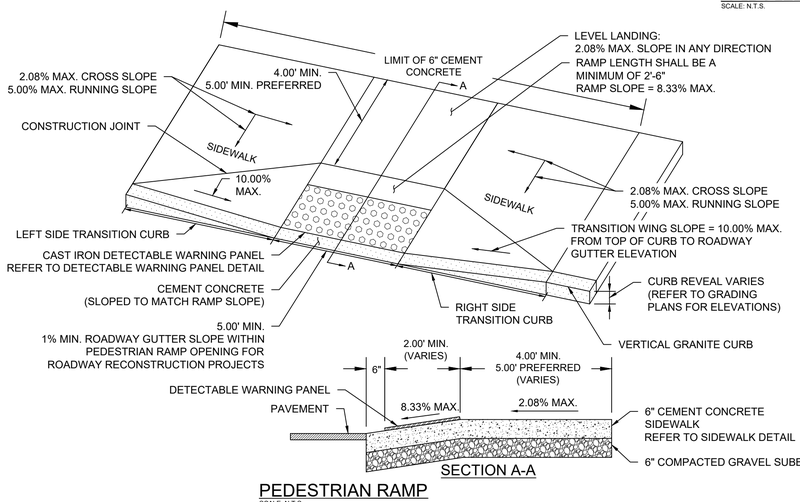


NOTES:

1. LEVEL PASSING ZONE TO BE PROVIDED AS INDICATED, BUT NOT LESS THAN EVERY 200'.

LEVEL PASSING ZONE

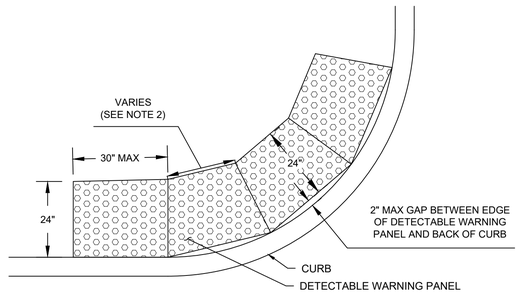
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SECTION A-A

PEDESTRIAN RAMP

SCALE: N.T.S.

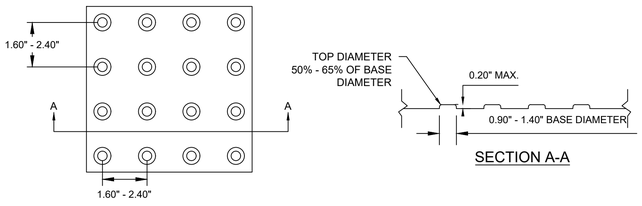


NOTES:

1. USE RADIAL PLATES WHERE CURB RADIUS MATCHES STANDARD PLATE RADIUS INCLUDING 10', 15', 17.5', 20', 30', AND 35'.
2. IF CURB RADIUS DOES NOT MATCH STANDARD PLATE RADIUS, CUT EDGES TO MATCH CURB RADIUS AS SHOWN IN DETAIL.
3. AT CUT EDGES, CENTER-TO-CENTER SPACING MEASURED BETWEEN ADJACENT TRUNCATED DOMES SHALL NOT EXCEED TWICE THE NORMAL SPACING BETWEEN DOMES NOT ADJACENT TO CUT EDGES.

DETECTABLE WARNING PANEL INSTALLATION (NON-STANDARD RADIUS CURVES)

SCALE: N.T.S.



PLAN

SECTION A-A

NOTES:

1. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
2. DETECTABLE WARNING PANELS SHALL EXTEND A MIN. OF 2' IN RAMP.
3. DETECTABLE WARNING PANELS SHALL BE CONSTRUCTED OF CAST IRON.
4. DETECTABLE WARNING PANELS WITHIN THE LIMITS OF BRICK SIDEWALK TO BE COATED WITH YELLOW POWDER COAT PAINT PROVIDED BY THE MANUFACTURER.
5. INSTALLATION AND TYPE OF DETECTABLE WARNING PANEL SHALL BE IN ACCORDANCE WITH PROWAG REGULATORY STANDARDS.

DETECTABLE WARNING PANEL

SCALE: N.T.S.

CONFORMED

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Details\PORT-RLF-Roadway General.dwg LAYOUT: RG-1 BY: peter gatland

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS — THE WORKS

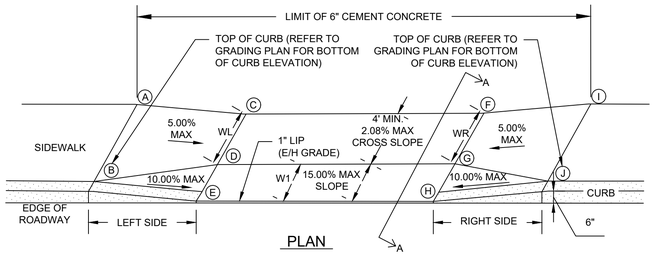
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY GENERAL CONSTRUCTION DETAILS - 1 OF 4

Sheet: RG-1

File No.: 30724



PLAN

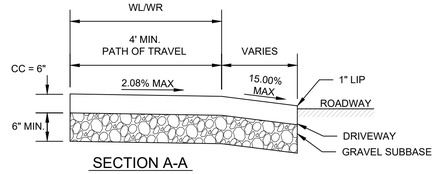
LEGEND

W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)

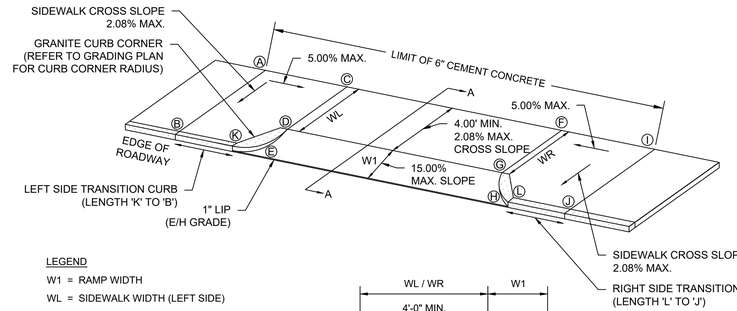
CC = CEMENT CONCRETE



SECTION A-A

CONCRETE DRIVEWAY AT SIDEWALK

SCALE: N.T.S.



LEGEND

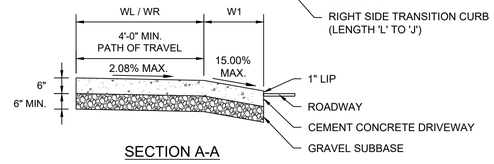
W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)

NOTES:

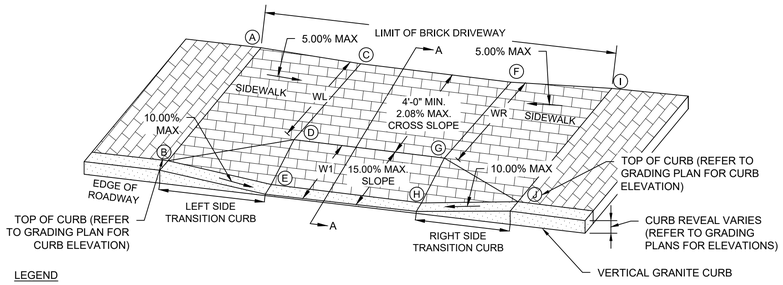
1. DRIVEWAY CURB CUT WIDTH AND LOCATION SHALL MATCH EXISTING CURB CUT OPENING UNLESS OTHERWISE APPROVED BY THE CITY.



SECTION A-A

DRIVEWAY WITH CURB CORNERS

SCALE: N.T.S.

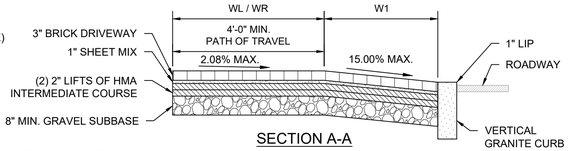


LEGEND

W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)



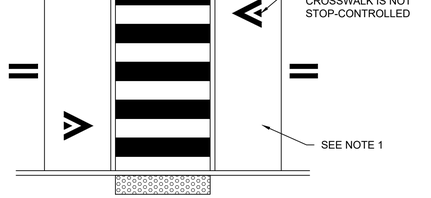
SECTION A-A

NOTES:

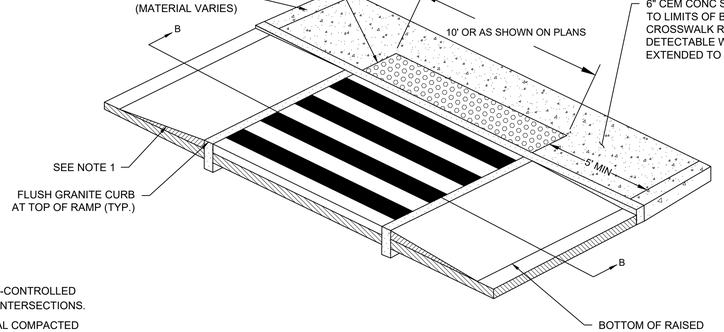
1. SIDEWALK BRICK PATTERN TO FOLLOW STANDARD BRICK SIDEWALK DETAIL.
2. DRIVEWAY CURB CUT WIDTH AND LOCATION SHALL MATCH EXISTING CURB CUT OPENING UNLESS OTHERWISE APPROVED BY THE CITY.

DRIVEWAY - BRICK

SCALE: N.T.S.

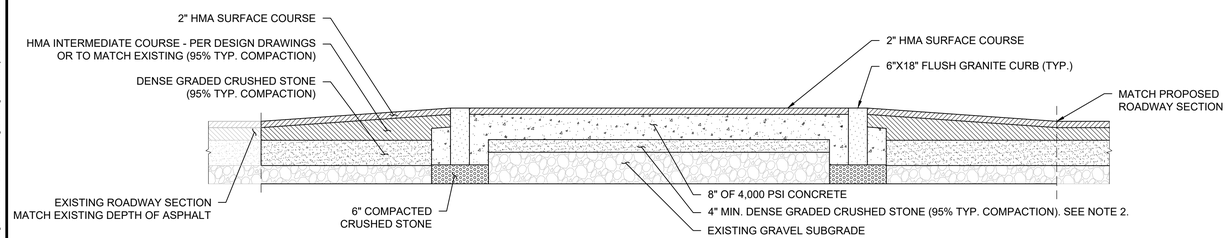


PLAN VIEW



NOTES:

1. REFER TO GRADING PLANS FOR RAMP SLOPES. RAMP SLOPE IS TYPICALLY 5.00% AT STOP-CONTROLLED SIDE STREET CROSSWALKS, AND NET 7.00% AT MID-BLOCK CROSSWALKS AND THROUGH INTERSECTIONS.
2. REMOVE ALL EXISTING HMA BELOW RAISED CROSSWALK AREA. BACKFILL WITH ADDITIONAL COMPACTED DENSE GRADED CRUSHED STONE IF NECESSARY.



SECTION B-B

RAISED CROSSWALK

SCALE: N.T.S.

NOTES:

1. REFER TO FIGURE 9C-9 IN THE MUTCD FOR MORE DETAIL.
2. SHARED LANE MARKINGS SHALL BE PREFORMED THERMOPLASTIC.

SHARED LANE PAVEMENT MARKING

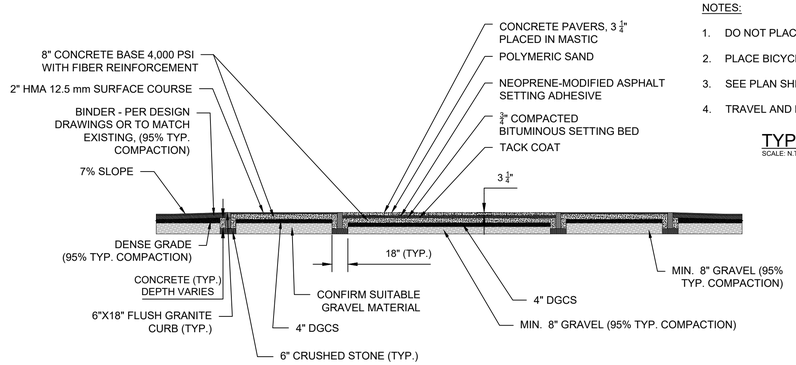
SCALE: N.T.S.

NOTES:

1. DO NOT PLACE SYMBOLS ON LANE LINES OR WITHIN DASHED LINES.
2. PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE LANE.
3. SEE PLAN SHEETS FOR SYMBOL LOCATIONS.
4. TRAVEL AND PARKING LANE WIDTHS ARE AS SHOWN ON THE DRAWINGS.

TYPICAL BICYCLE LANE SYMBOL

SCALE: N.T.S.



RAISED INTERSECTION

SCALE: N.T.S.

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

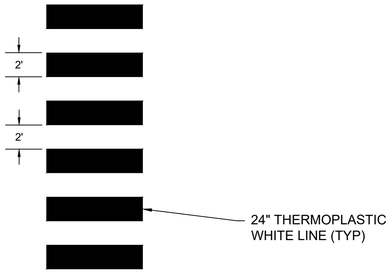
Drawing: ROADWAY GENERAL CONSTRUCTION DETAILS - 2 OF 4

Sheet: RG-2

File No.: 30724

Plot date: 3/31/2026 3:25:59 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Details\PORT-KLF-Roadway General.dwg LAYOUT: RG-2 BY: peter gartland

Plot date: 3/31/2026 3:25:59 PM

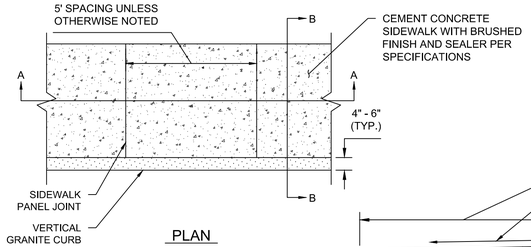


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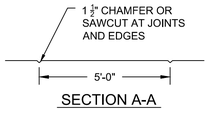
1. ALL 12" LINES SHALL BE APPLIED IN ONE APPLICATION. NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
2. LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION.
3. CROSSWALK BARS SHALL BE PLACED OUTSIDE THE VEHICULAR WHEEL PATH WHEREVER POSSIBLE.

TYPICAL CROSSWALK MARKING

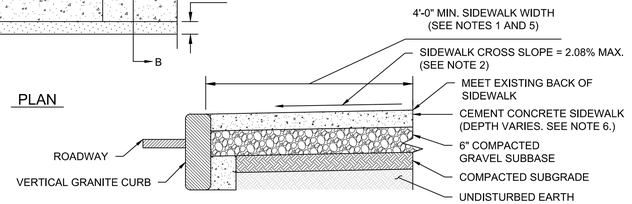
SCALE: N.T.S.



PLAN



SECTION A-A



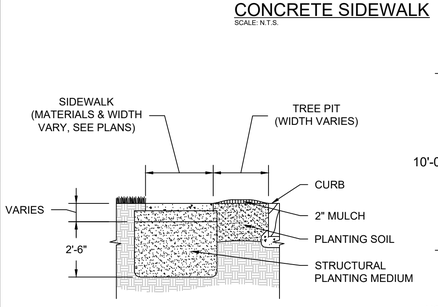
SECTION B-B

NOTES:

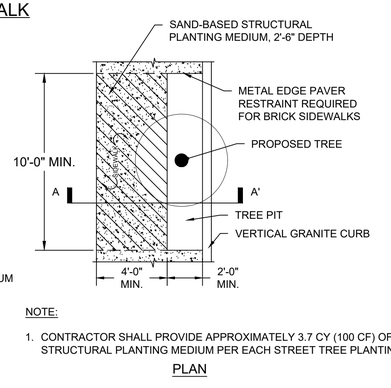
1. NEW SIDEWALK SHALL MATCH WIDTH OF EXISTING SIDEWALK, UNLESS OTHERWISE NOTED.
2. SIDEWALKS TO BE BUILT ACCORDING TO PROWAG AND MA AAB REGULATIONS (2.08% MAXIMUM CROSS SLOPE AND 5.00% MAXIMUM RUNNING SLOPE).
3. SEE EXPANSION JOINT DETAIL FOR SIDEWALK INSTALLATION AROUND HYDRANTS, UTILITY POLES, SIGN POSTS ETC.
4. MINIMUM CLEARANCE OF 3' SHALL BE PROVIDED AT EXISTING TREE PITS AND UTILITY POLES. MINIMUM CLEARANCE OF 4' SHALL BE PROVIDED AT ALL OTHER LOCATIONS.
5. CONCRETE SHALL BE 6" THICK WITHIN LIMITS OF PEDESTRIAN RAMPS, RAISED CROSSWALK LANDINGS, DRIVEWAYS, AND SHARED STREETS. CONCRETE SHALL BE 4" THICK AT ALL OTHER SIDEWALK LOCATIONS.

CONCRETE SIDEWALK

SCALE: N.T.S.



SECTION A-A'



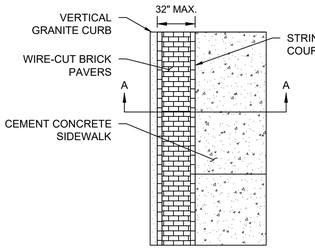
NOTE:

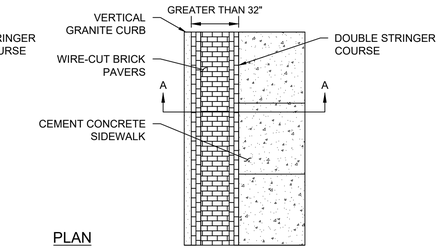
1. CONTRACTOR SHALL PROVIDE APPROXIMATELY 3.7 CY (100 CF) OF STRUCTURAL PLANTING MEDIUM PER EACH STREET TREE PLANTING.

PLAN

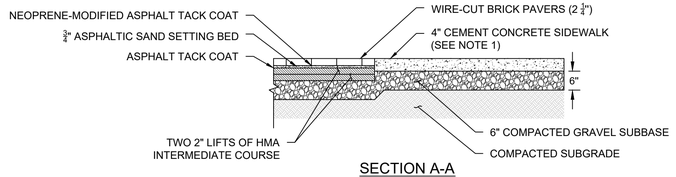
STRUCTURAL PLANTING MEDIUM

SCALE: N.T.S.





PLAN



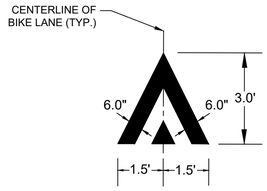
SECTION A-A

NOTES:

1. SIDEWALK TO BE BUILT ACCORDING TO PROWAG AND MA AAB REGULATIONS.
2. BRICKS SHALL HAVE A SAND AND CEMENT DRY MIX SWEPT INTO THE JOINTS.

BRICK FEATURE STRIP

SCALE: N.T.S.

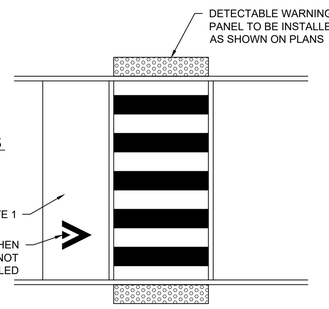


RAMP MARKING FOR BIKE LANE AND LOCAL STREETS

SCALE: N.T.S.

RAMP MARKING

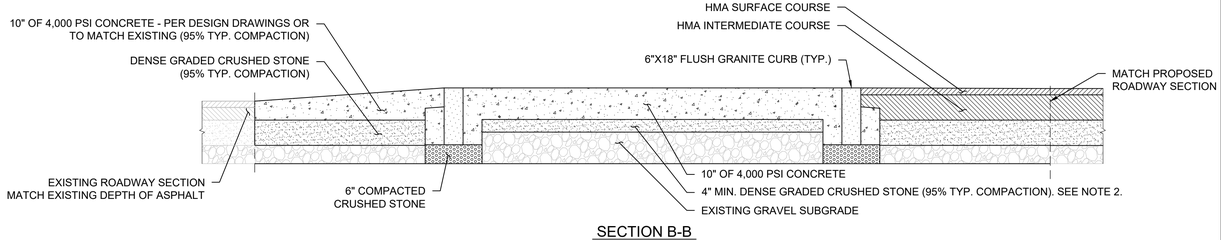
SCALE: N.T.S.



PLAN VIEW

NOTES:

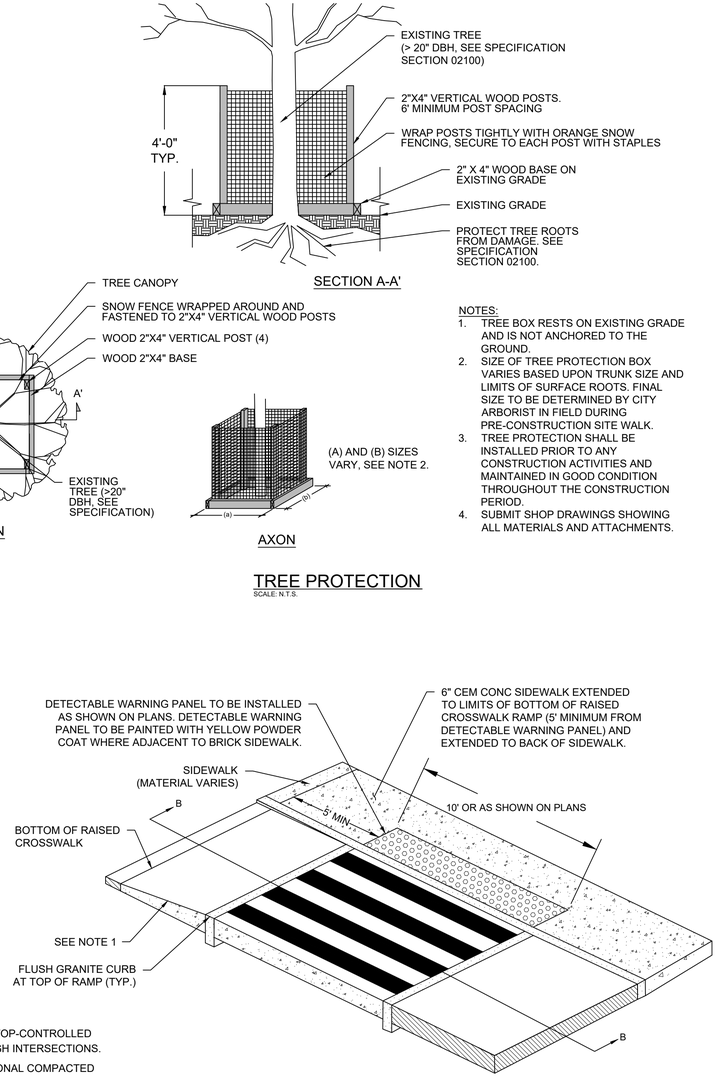
1. REFER TO GRADING PLANS FOR RAMP SLOPES. RAMP SLOPE IS TYPICALLY 5.00% AT STOP-CONTROLLED SIDE STREET CROSSWALKS, AND NET 7.00% AT MID-BLOCK CROSSWALKS AND THROUGH INTERSECTIONS.
2. REMOVE ALL EXISTING HMA BELOW RAISED CROSSWALK AREA. BACKFILL WITH ADDITIONAL COMPACTED DENSE GRADED CRUSHED STONE IF NECESSARY.
3. DETAIL IS FOR APPROACH RAMPS ONLY. FOR DEPARTING RAMPS, REFER TO RAISED CROSSWALK DETAIL.



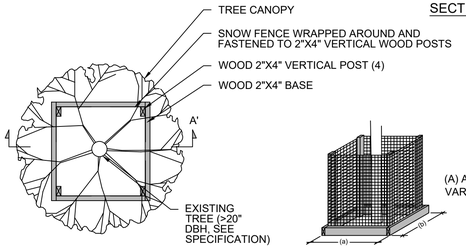
SECTION B-B

SHARED STREET RAISED CROSSWALK

SCALE: N.T.S.



SECTION A-A'



PLAN

AXON

NOTES:

1. TREE BOX RESTS ON EXISTING GRADE AND IS NOT ANCHORED TO THE GROUND.
2. SIZE OF TREE PROTECTION BOX VARIES BASED UPON TRUNK SIZE AND LIMITS OF SURFACE ROOTS. FINAL SIZE TO BE DETERMINED BY CITY ARBORIST IN FIELD DURING PRE-CONSTRUCTION SITE WALK.
3. TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES AND MAINTAINED IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
4. SUBMIT SHOP DRAWINGS SHOWING ALL MATERIALS AND ATTACHMENTS.

TREE PROTECTION

SCALE: N.T.S.

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

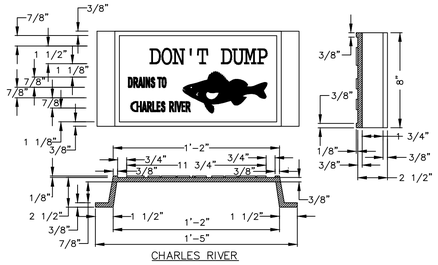
Drawing: ROADWAY GENERAL
CONSTRUCTION DETAILS - 3 OF 4

Sheet: RG-3

File No.: 30724

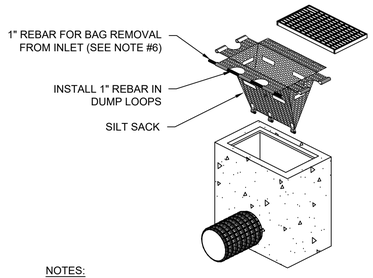
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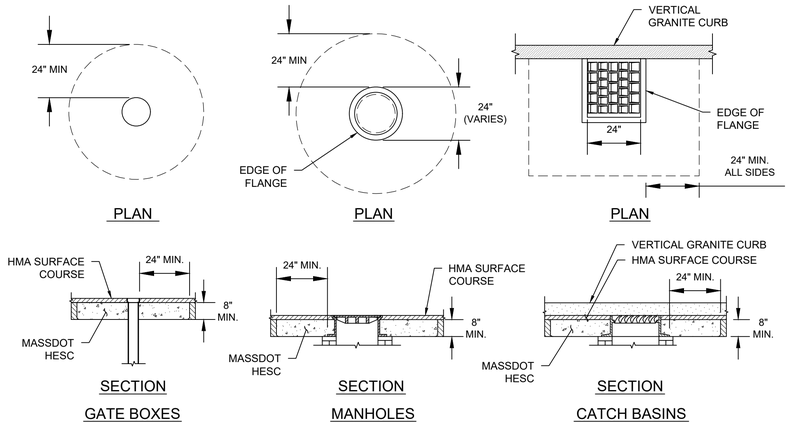
NOTE:
1) CHARLES RIVER CURB MARKER SHALL BE PLACED IN SIDEWALK BEHIND ALL CATCH BASINS.

CATCH BASIN DON'T DUMP CURB MARKER (CHARLES RIVER)
SCALE: N.T.S.



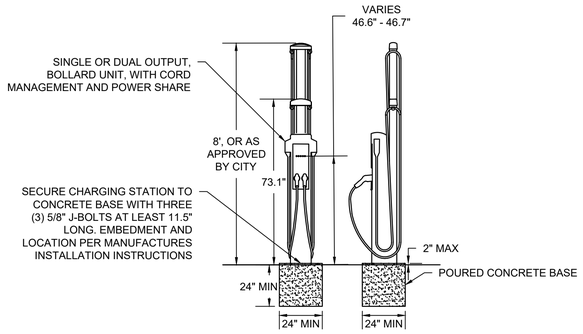
NOTES:
1. CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY TO MAINTAIN LEVEL BELOW OVERFLOW HOLES IN SILT SACK.
2. SILT SACK SHALL BE USED ON ALL CATCH BASINS WITHIN CONSTRUCTION ZONE OR AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SEDIMENTATION BARRIERS THROUGHOUT THE DURATION OF THE PROJECT.
4. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF SEDIMENT AS REQUIRED.
5. CONTRACTOR SHALL REMOVE SILT SACKS AND LEGALLY DISPOSE OF THEM OFF-SITE, UPON COMPLETION OF THE PROJECT AND AS REQUIRED.
6. 1" REBAR FOR BAG REMOVAL SHALL BE REMOVED DURING WINTER MONTHS AT LOCATIONS WITH PLOW ACTIVITY. BARS SHALL BE REINSTALLED AFTER SNOW SEASON IS COMPLETE.

SILTSACK
SCALE: N.T.S.

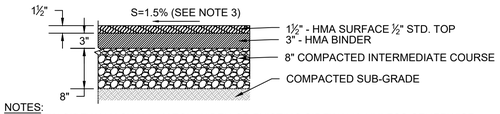


NOTES:
1. ANY CASTING RAISED AND/OR EXPOSED DURING CONSTRUCTION SHALL BE PAINTED WITH PINK PAINT.

RAISING CASTINGS
SCALE: N.T.S.

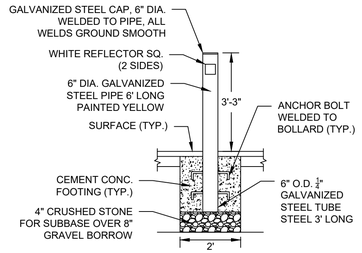


ELECTRIC VEHICLE CHARGING STATION
SCALE: N.T.S.

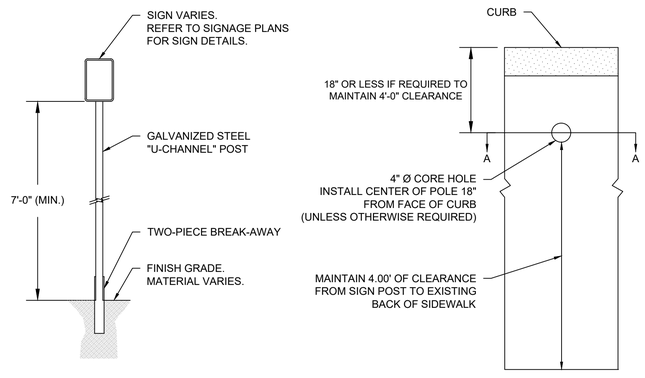


NOTES:
1. NEW SIDEWALK SHALL MATCH WIDTH OF EXISTING SIDEWALK, UNLESS OTHERWISE NOTED.
2. SIDEWALK MATERIAL TO MATCH EXISTING SIDEWALK, UNLESS OTHERWISE NOTED.
3. SIDEWALKS TO BE BUILT ACCORDING TO ADA AND MA AAB REGULATIONS, 2.0% MAX (0% TOLERANCE) CROSS SLOPE.
5. SEE SITE PLANS FOR SIDEWALK WIDTHS AND GRADES.

HMA SEPARATED BICYCLE LANE
SCALE: N.T.S.



FIXED BOLLARD
SCALE: N.T.S.



SIGN POST
N.T.S.

CONFORMED

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Details\PORT-ALF-Roadway General.dwg LAYOUT: RG-4 BY: peter garland

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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

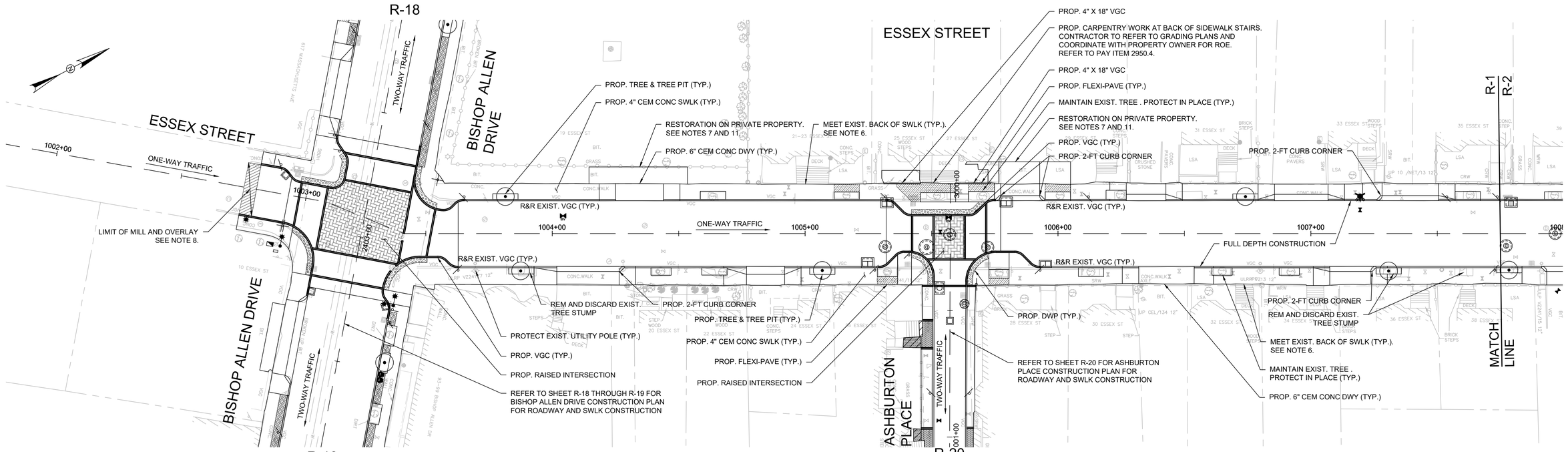
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY GENERAL CONSTRUCTION DETAILS - 4 OF 4

Sheet: RG-4

File No.: 30724

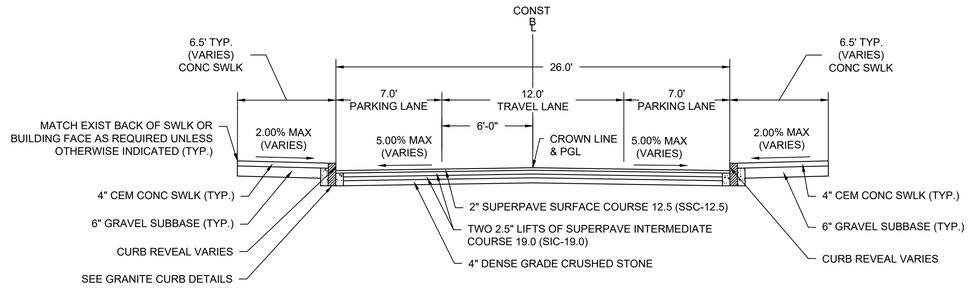


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

NOTES:

1. CONTRACTOR SHALL ADJUST EXISTING CAMBRIDGE OWNED UTILITY COVERS AND CASTINGS TO ALL INTERIM AND FINAL GRADES. CONTRACTOR TO COORDINATE WITH RESPECTIVE PRIVATE UTILITY COMPANIES FOR GAS/TELECOM/CABLE/ELECTRIC/MBTA.
2. ALL VERTICAL GRANITE CURBING WITHIN WORK LIMITS SHALL BE REMOVED AND RESET UNLESS OTHERWISE NOTED. CURB THAT IS VISIBLY IMPACTED BY ADJACENT TREES AND/OR TREE ROOTS SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE ENGINEER AND CITY ARBORIST.
3. AT LOCATIONS WITH EXISTING TREES TO REMAIN, CONTRACTOR SHALL MAINTAIN 3'-0" MINIMUM WIDE SIDEWALK BETWEEN THE BACK EDGE OF THE TREE PIT AND BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON THE PLANS. AT LOCATIONS WITH PROPOSED OR REPLACED TREES, 4'-0" MINIMUM WIDE SIDEWALK SHALL BE PROVIDED BETWEEN THE BACK EDGE OF THE TREE PIT AND BACK OF SIDEWALK.
4. CONTRACTOR TO ADJUST TREE PIT OPENINGS AS NECESSARY TO MAINTAIN A MINIMUM AREA OF 20 SF.
5. ALL EXISTING TREES AND SHRUBS SHALL BE RETAINED UNLESS OTHERWISE NOTED.
6. ALL EXISTING FEATURES AT BACK OF SIDEWALK SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. DAMAGES OR DISLODGING OF FEATURES AT BACK OF SIDEWALK SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
7. PROPOSED ADJUSTMENTS AND RESTORATION WORK BEYOND THE BACK OF EXISTING SIDEWALK SHALL BE PAID UNDER CONTRACT ITEMS 2950.1, 2950.2, AND 2950.3.
8. CONTRACTOR SHALL MATCH THE EXISTING ROADWAY PAVEMENT GRADE AT THE LIMIT OF PROPOSED PAVEMENT MILLING AND OVERLAY. THE JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE TREATED WITH PAVEMENT SEALANT AND HOT POURED RUBBERIZED ASPHALT SEALER.
9. ALL EXISTING SIGN POSTS SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED. ALL PROPOSED SIGN POSTS SHALL BE LOCATED WITH A LATERAL CLEARANCE OF 1' FROM THE BACK OF THE CURB BUT NOT LESS THAN 4' FROM THE BACK OF SIDEWALK.
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ESSEX STREET
STA. 1002+75 TO STA. 1007+75
SCALE: NTS

CONFORMED

KLEINFELDER
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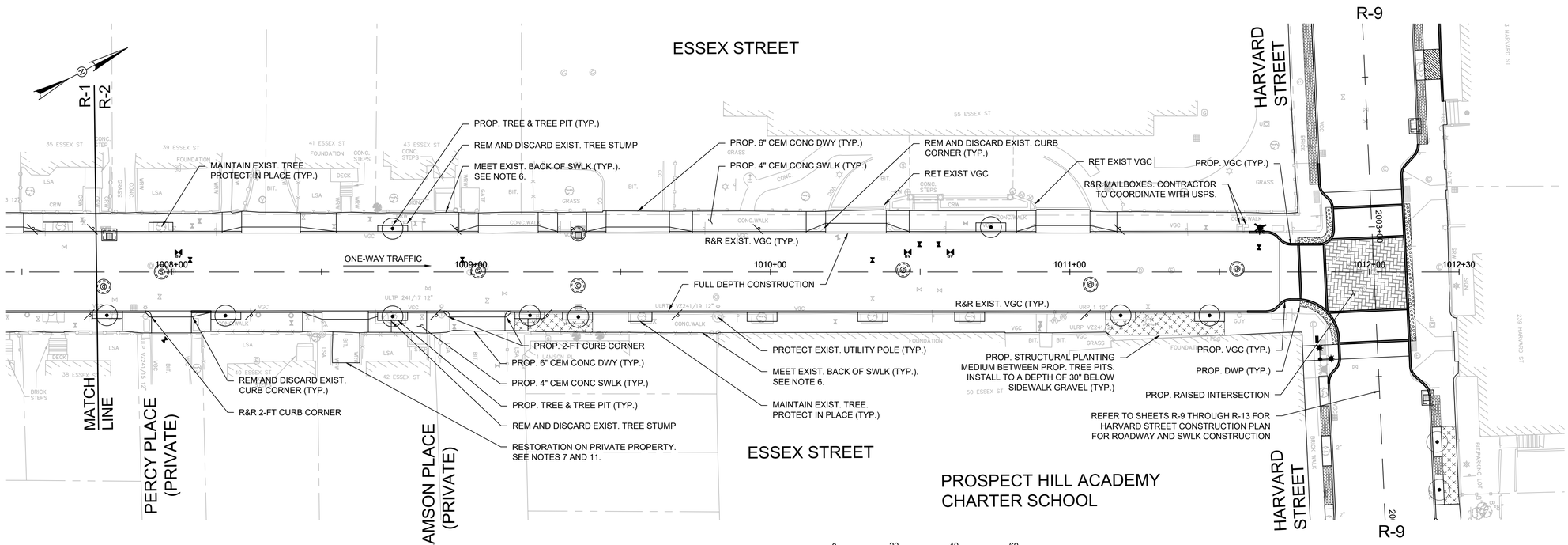
COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	MCS/ERM			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ROADWAY - CONSTRUCTION PLAN ESSEX STREET STA. 1002+75 TO STA. 1007+75
Sheet: R-1
File No.: 30724

Plot date - 12/16/2025 8:28:12 PM
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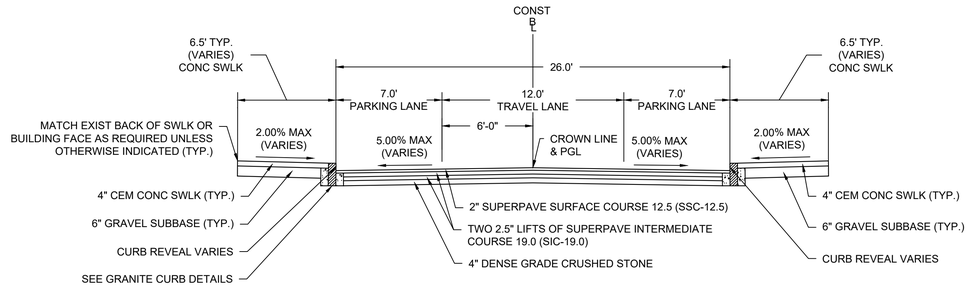


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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ESSEX STREET
STA. 1007+75 TO STA. 1012+30
SCALE: NTS

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

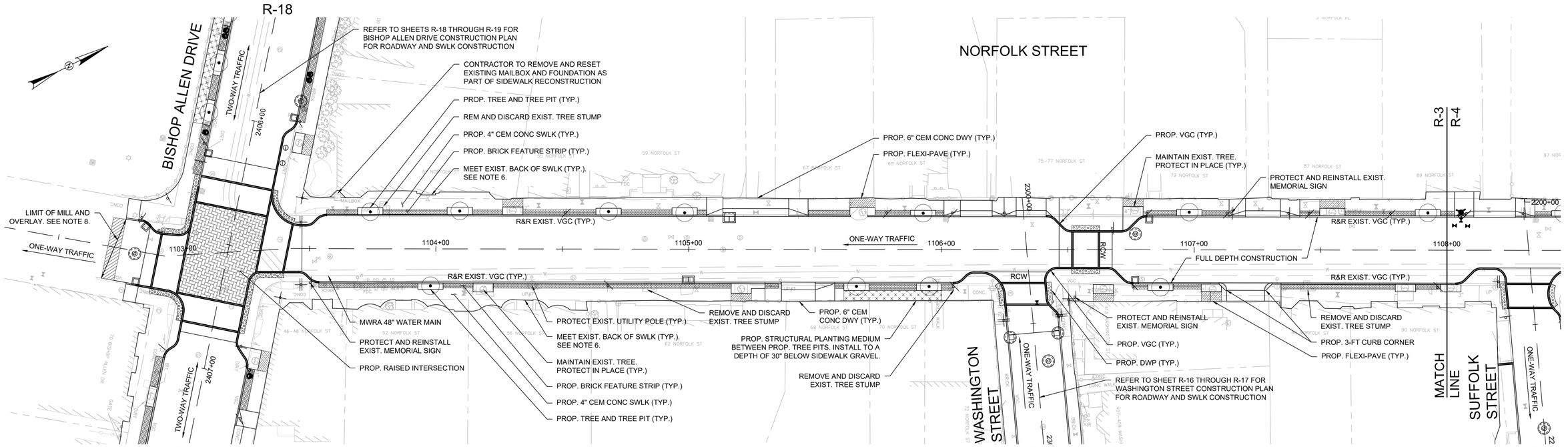
THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ROADWAY - CONSTRUCTION PLAN ESSEX STREET STA. 1007+75 TO STA. 1012+30

Sheet: R-2
File No.: 30724

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Plot date - 12/16/2025 8:40:52 PM

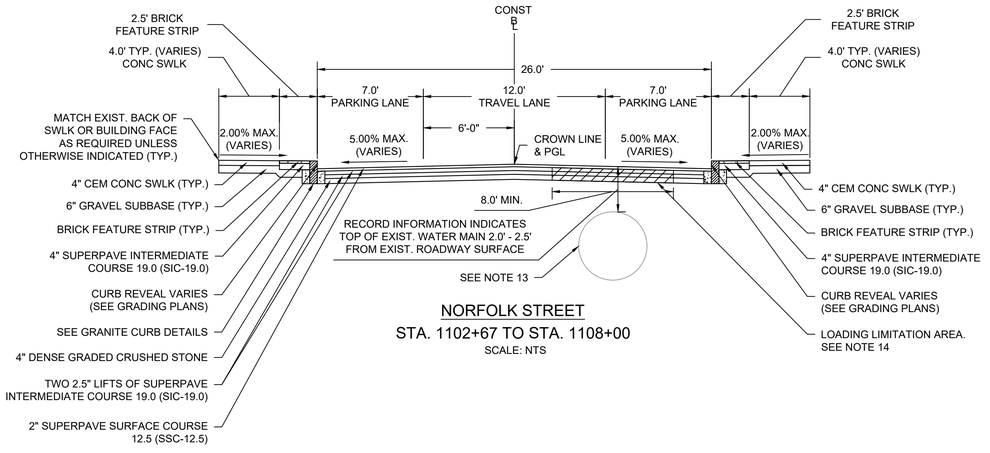


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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NORFOLK STREET
STA. 1102+67 TO STA. 1108+00
SCALE: NTS

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

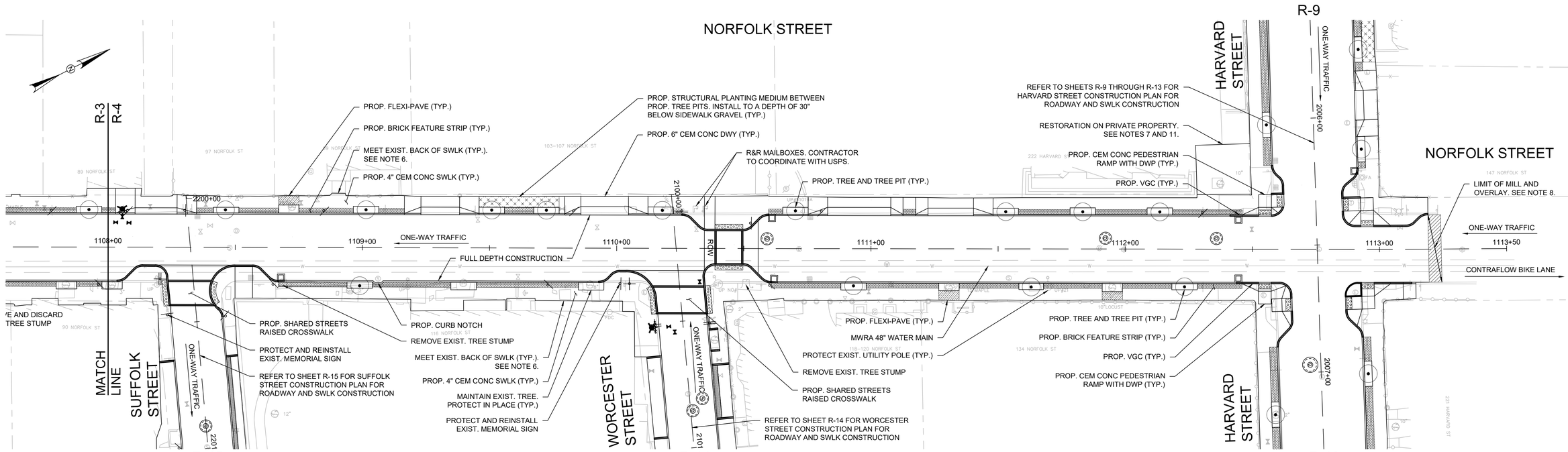
Drawing: ROADWAY - CONSTRUCTION PLAN NORFOLK STREET STA. 1102+67 TO STA. 1108+00

Sheet: R-3

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Norfolk Street.dwg LAYOUT: R-3 BY: peter garland

Plot date - 12/16/2025 8:40:52 PM

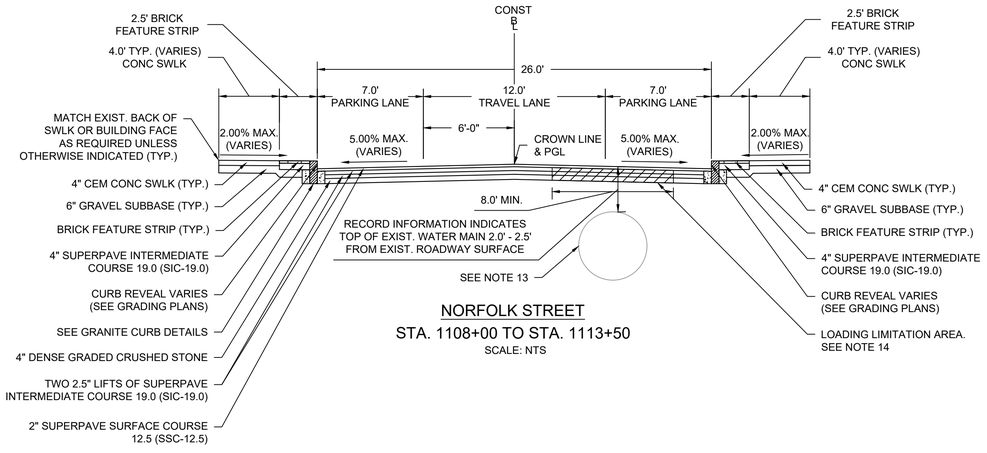


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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NORFOLK STREET
STA. 1108+00 TO STA. 1113+50
SCALE: NTS

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
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No.	Description	Date
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CAMBRIDGE DEPARTMENT OF PUBLIC THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

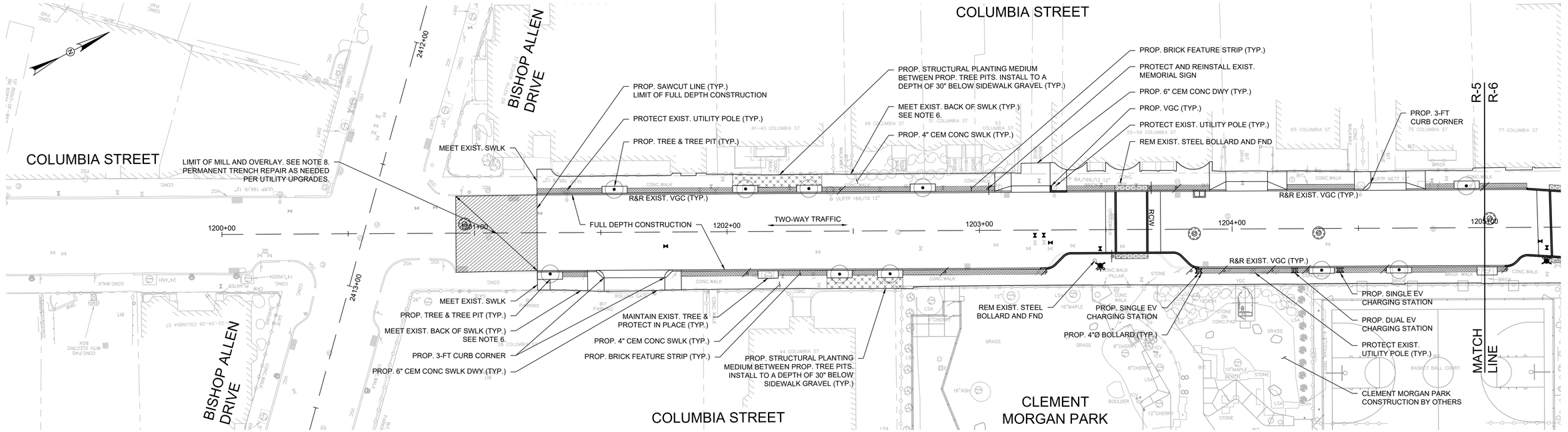
Drawing: ROADWAY - CONSTRUCTION PLAN NORFOLK STREET STA. 1108+00 TO STA. 1113+50

Sheet: R-4

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Norfolk Street.dwg LAYOUT: R-4 BY: peter garland

Plot date: 12/16/2025 9:20:01 PM

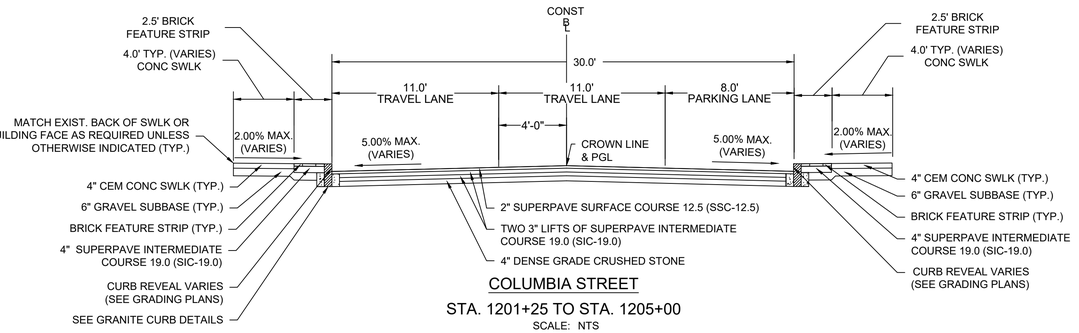


PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET



COLUMBIA STREET

STA. 1201+25 TO STA. 1205+00

SCALE: NTS

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Scale	1" = 20'			
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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

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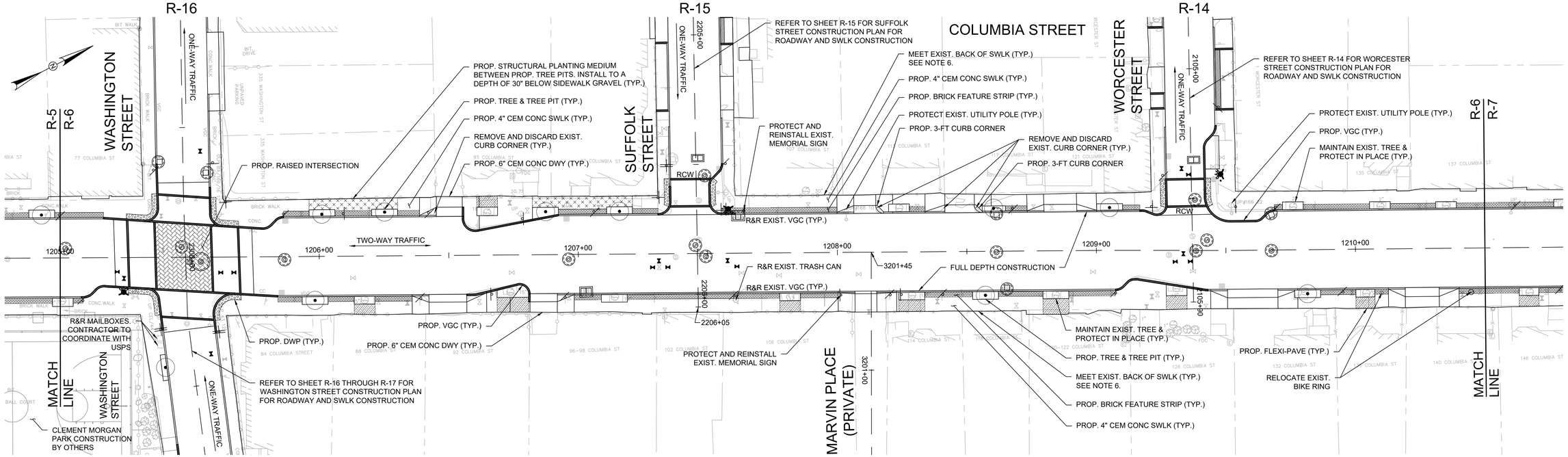
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN
COLUMBIA STREET STA. 1201+25 TO STA. 1205+00

Sheet: R-5

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Columbia Street.dwg LAYOUT: R-5 BY: peter garland

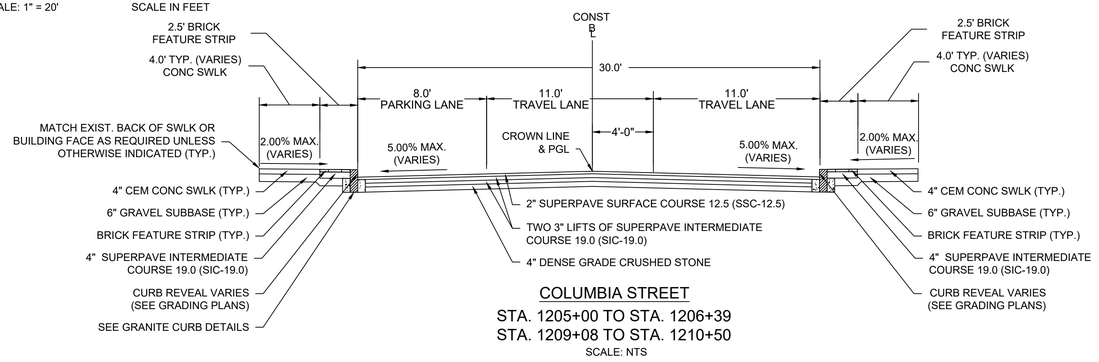


PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

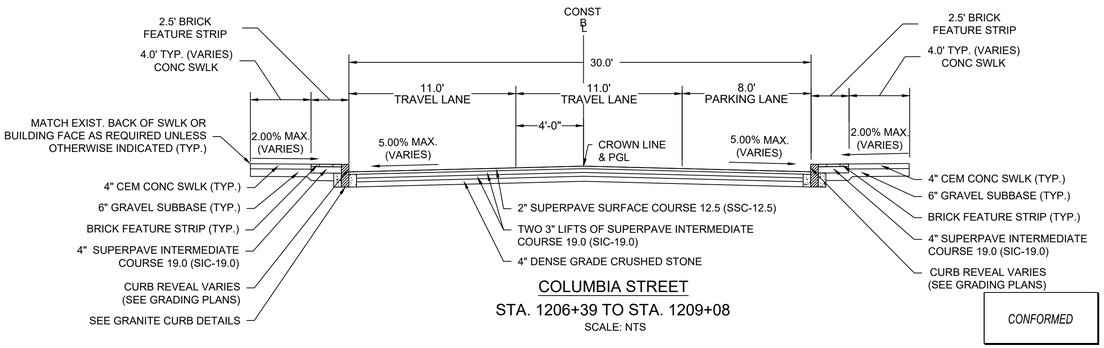


COLUMBIA STREET

STA. 1205+00 TO STA. 1206+39

STA. 1209+08 TO STA. 1210+50

SCALE: NTS



COLUMBIA STREET

STA. 1206+39 TO STA. 1209+08

SCALE: NTS

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CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN
COLUMBIA STREET - STA. 1205+00 TO STA. 1210+50

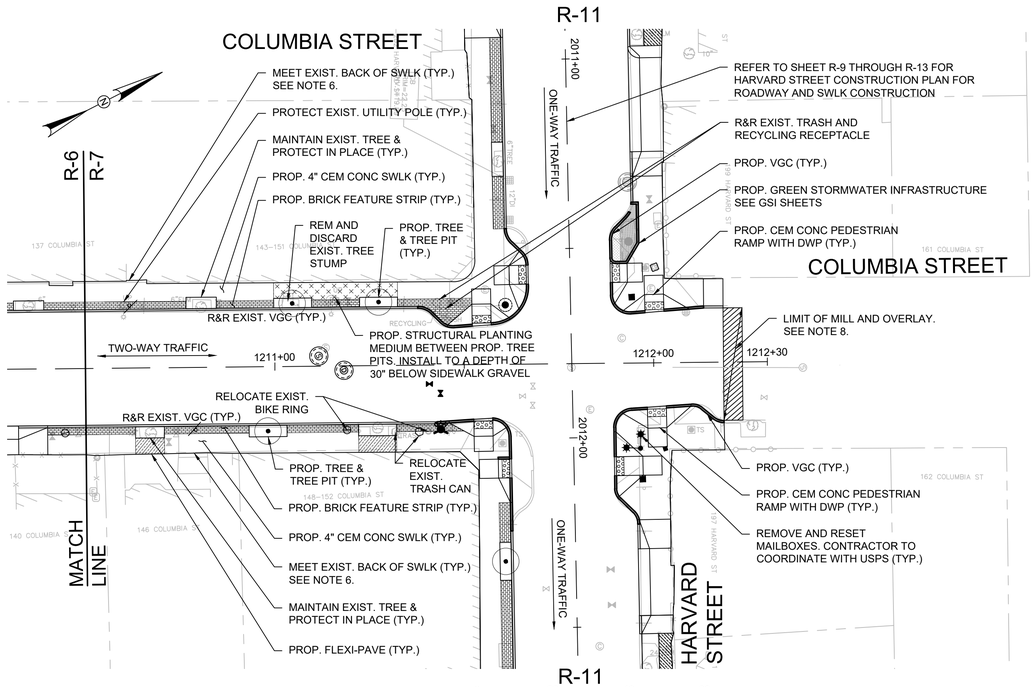
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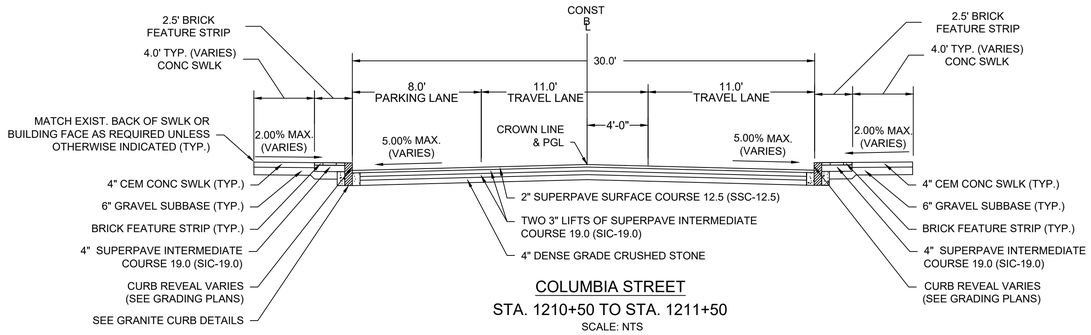
LAYOUT: R-6 BY: peter garland

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Columbia Street.dwg



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



COLUMBIA STREET
STA. 1210+50 TO STA. 1211+50
SCALE: NTS

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CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	MCS/ERM			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

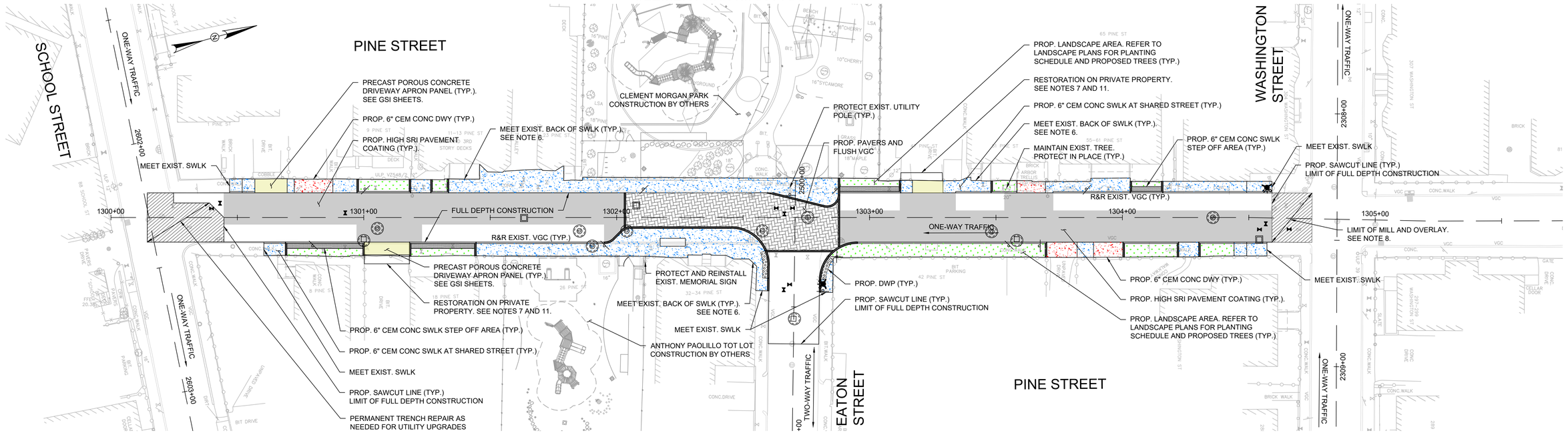
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Sheet: R-7

File No.: 30724

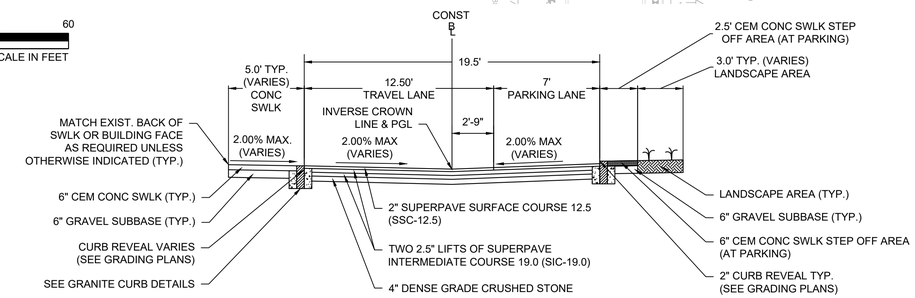
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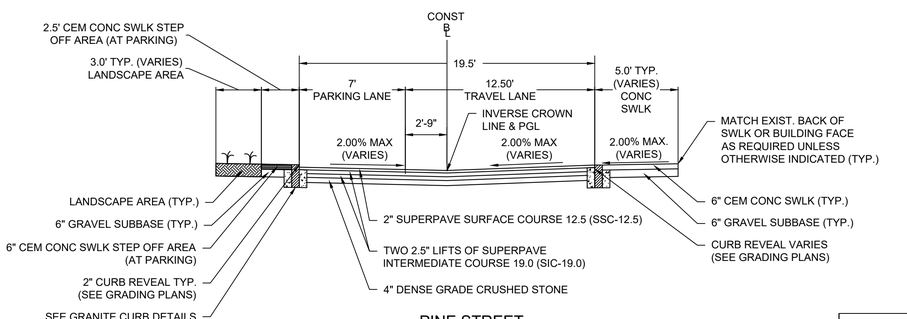


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



PINE STREET
STA. 1300+00 TO STA. 1302+85
SCALE: NTS



PINE STREET
STA. 1302+85 TO STA. 1304+65
SCALE: NTS

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LEGEND:

- PROPOSED 6" CEMENT CONCRETE DRIVEWAY AT SHARED STREET
- PROPOSED 6" CEMENT CONCRETE SIDEWALK AT SHARED STREET
- PROPOSED 6" CEMENT CONCRETE SIDEWALK STEP OFF AREA
- PROPOSED LANDSCAPE AREA
- PROPOSED HIGH SRI PAVEMENT COATING
- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

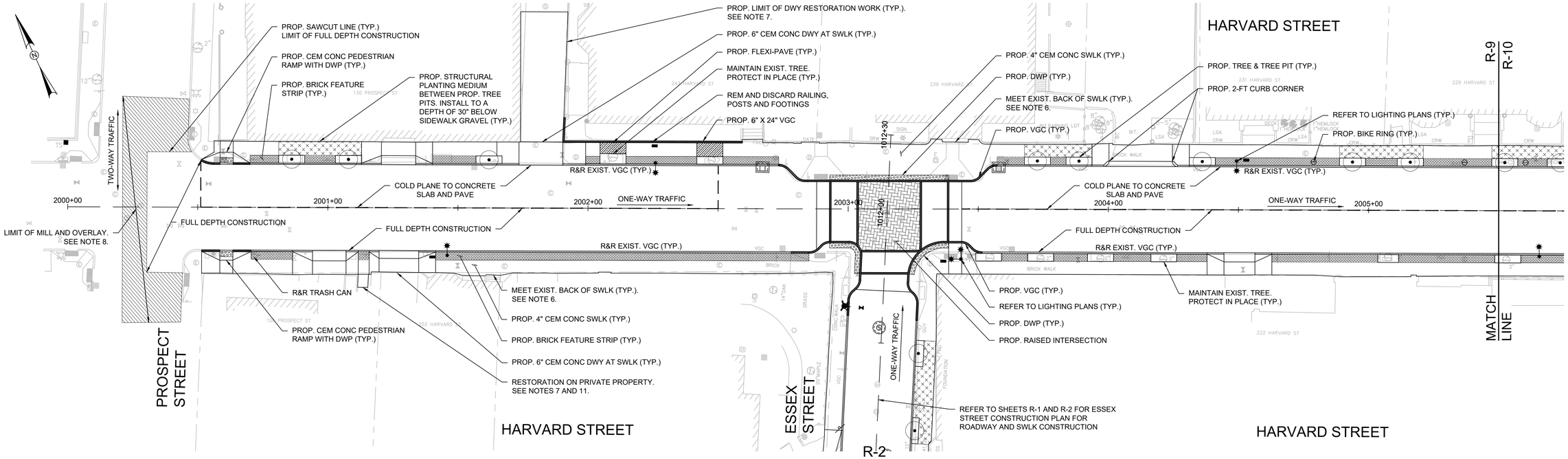
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN
PINE STREET STA. 1300+25 TO STA. 1305+00

Sheet: R-8

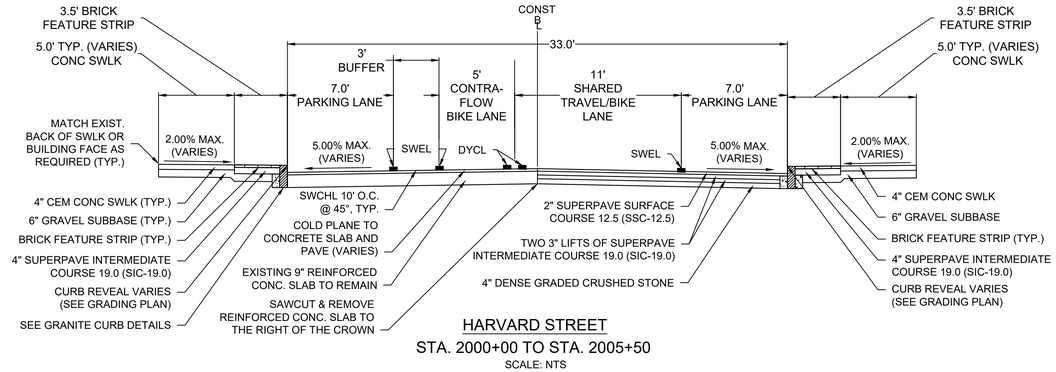
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CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Pine Street.dwg LAYOUT: R-8 BY: peter garland



PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



HARVARD STREET
STA. 2000+00 TO STA. 2005+50
SCALE: NTS

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CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
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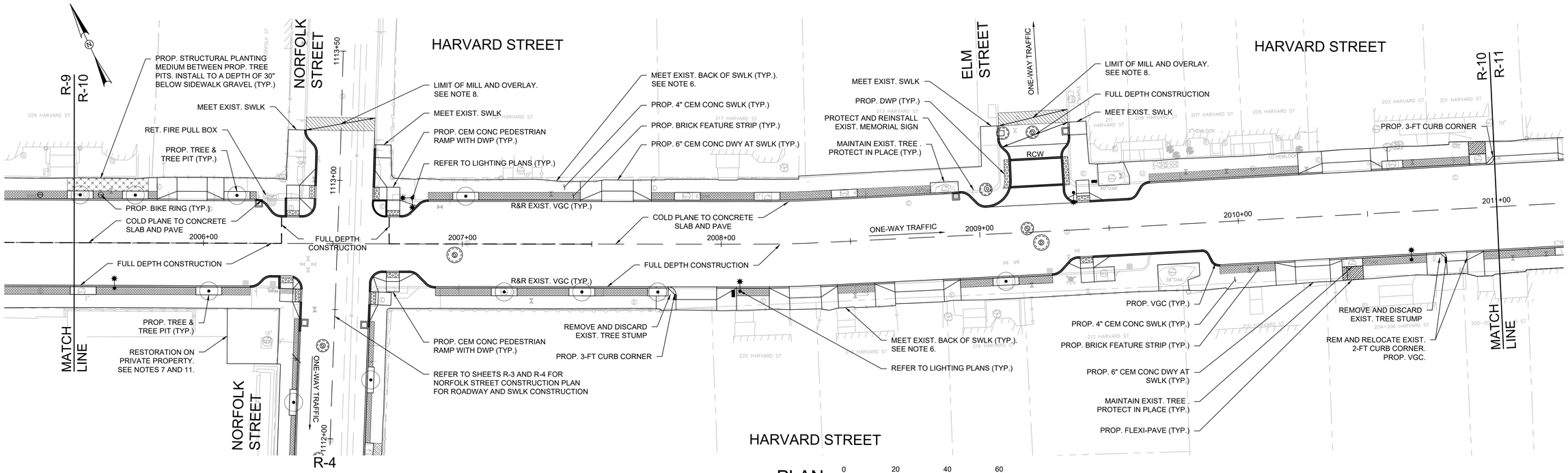
No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ROADWAY - CONSTRUCTION PLAN HARVARD STREET STA. 2000+00 TO STA. 2005+50

Sheet: R-9
File No.: 30724

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CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Harvard Street.dwg LAYOUT: R-9 BY: peter garland

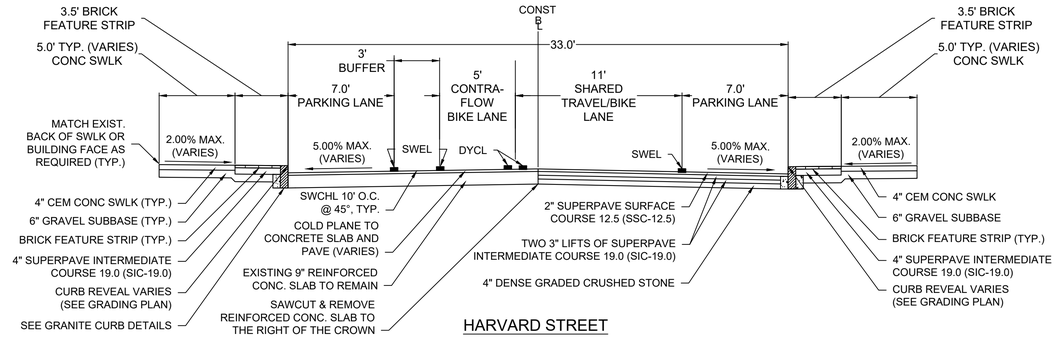


PLAN

SCALE: 1' = 20"

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET



HARVARD STREET

STA. 2005+50 TO STA. 2011+00

SCALE: NTS

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KLEINFELDER Bright People. Right Solutions.

Stantec

KATE E. ACKERSON, CIVIL, No. 57459, REGISTERED PROFESSIONAL ENGINEER, COMMONWEALTH OF MASSACHUSETTS

Scale	1" = 20'			
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

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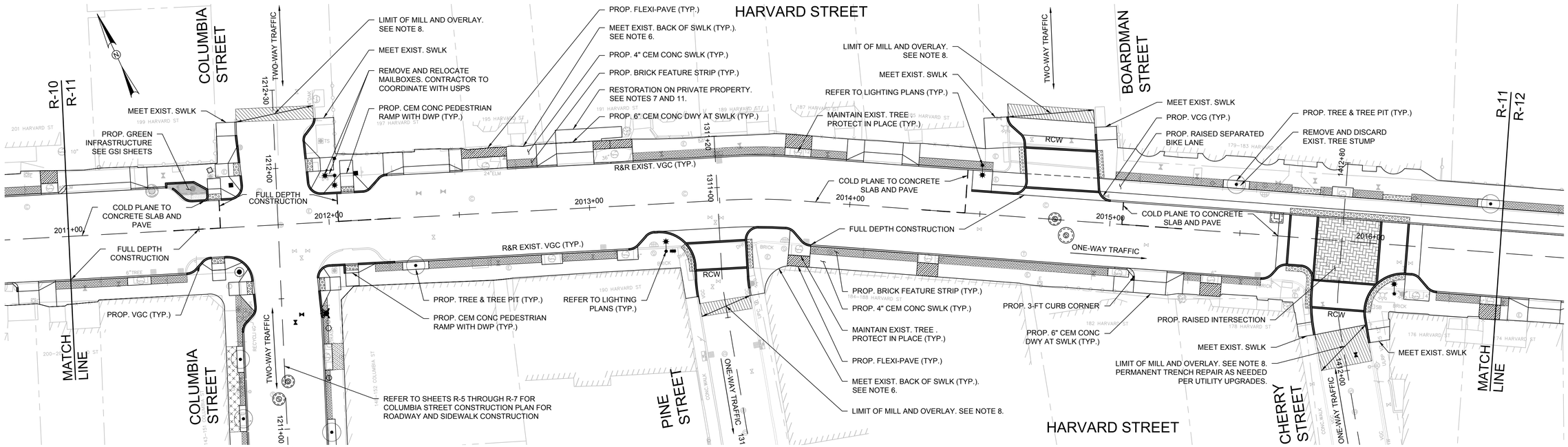
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN HARVARD STREET STA. 2005+50 TO STA. 2011+00

Sheet: R-10

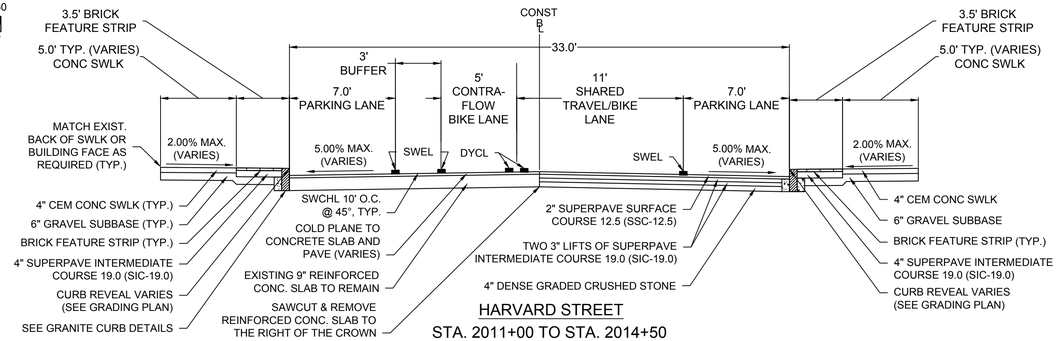
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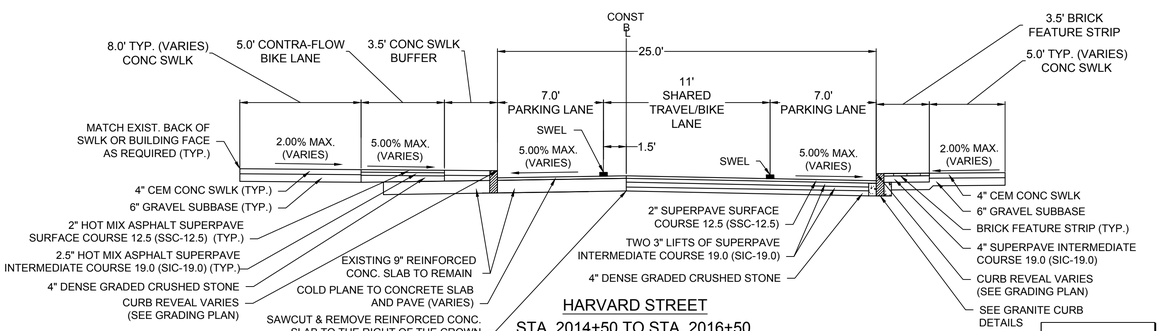


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



HARVARD STREET
STA. 2011+00 TO STA. 2014+50
SCALE: NTS



HARVARD STREET
STA. 2014+50 TO STA. 2016+50
SCALE: NTS

NOTES:

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KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CONFORMED

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN HARVARD STREET STA. 2011+00 TO STA. 2016+50

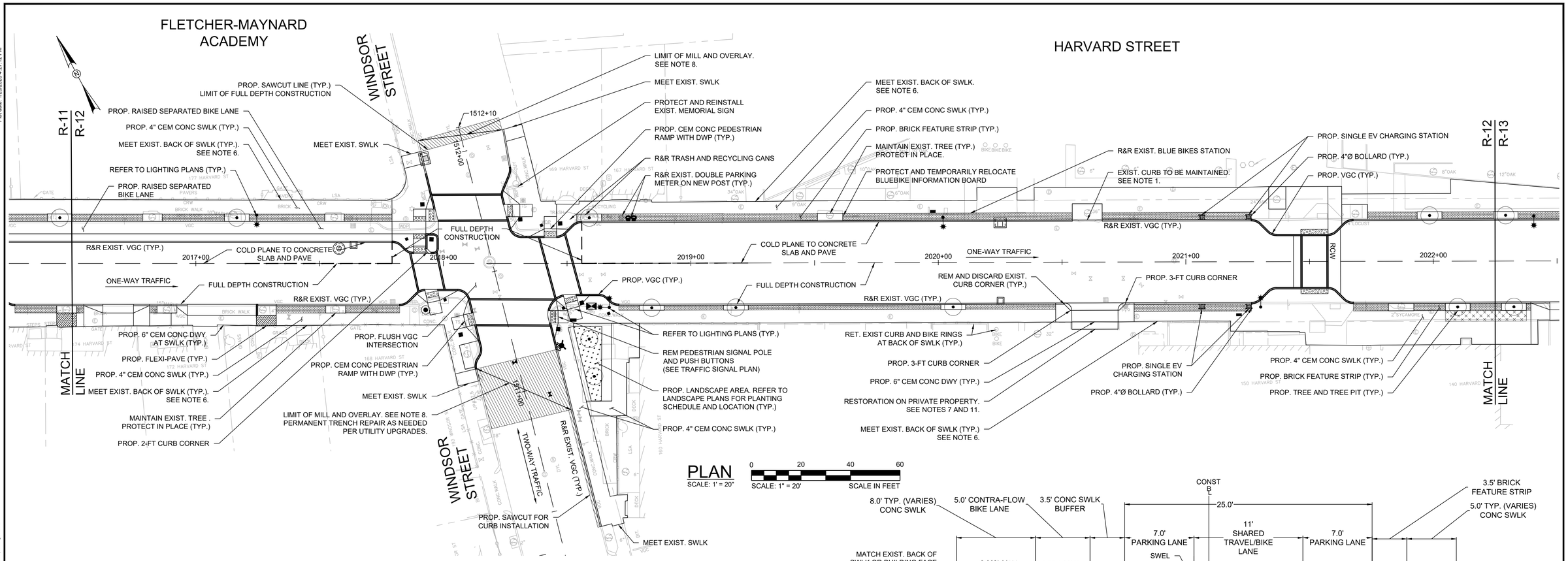
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File No.: 30724

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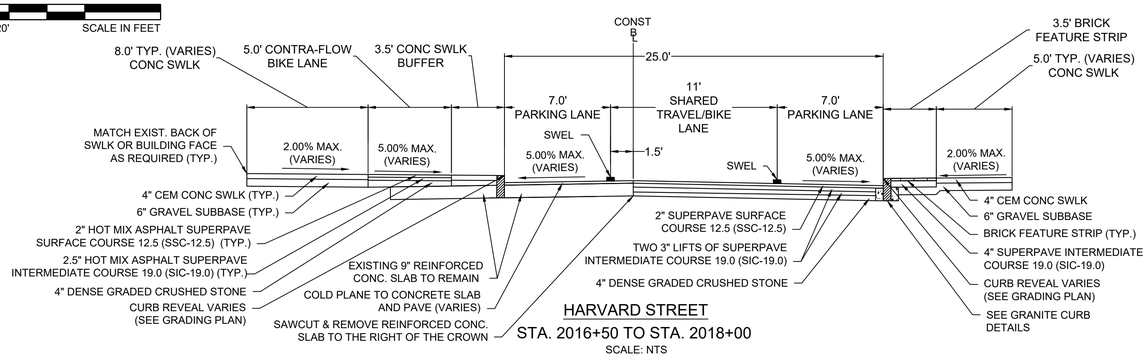
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Plot date: 1/23/2026 4:27:12 PM

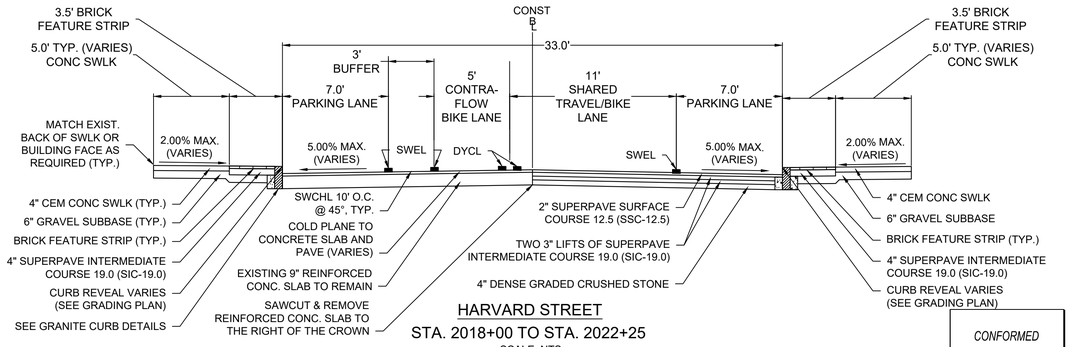


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



HARVARD STREET
STA. 2016+50 TO STA. 2018+00
SCALE: NTS



HARVARD STREET
STA. 2018+00 TO STA. 2022+25
SCALE: NTS

CONFORMED

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Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

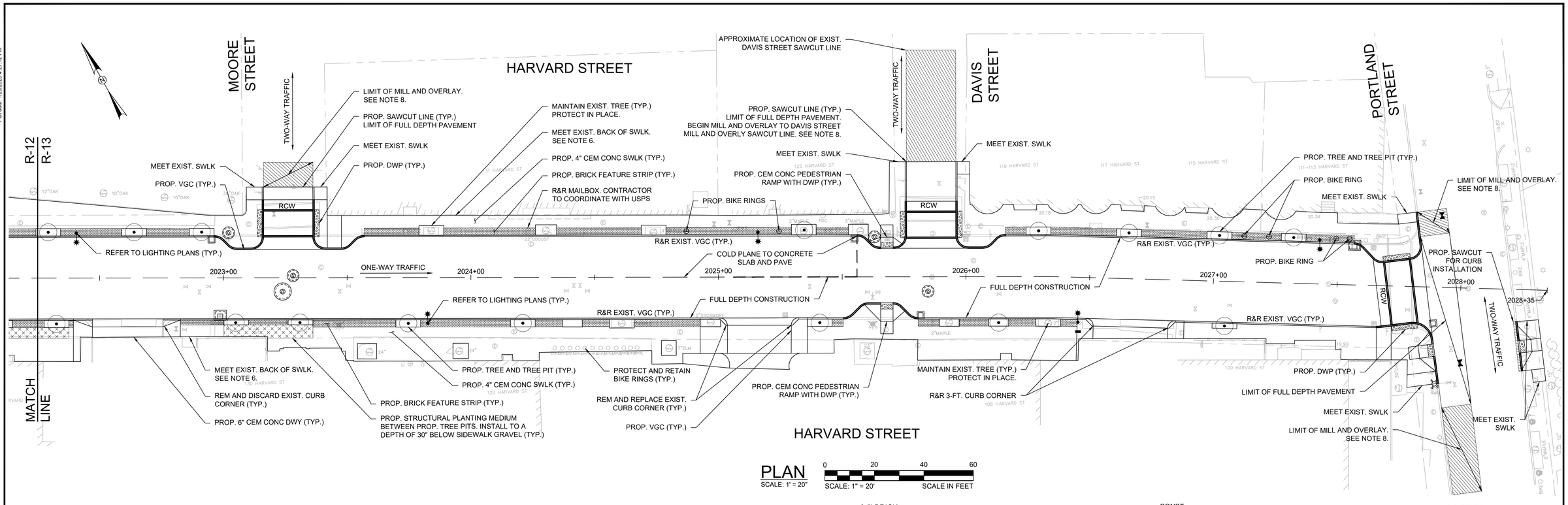
Drawing: ROADWAY - CONSTRUCTION PLAN HARVARD STREET STA. 2016+50 TO STA. 2022+25

Sheet: R-12

File No.: 30724

C&D FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Harvard Street.dwg LAYOUT: R-12 BY: peter garland

Plot date: 1/23/2026 4:27:12 PM



PLAN

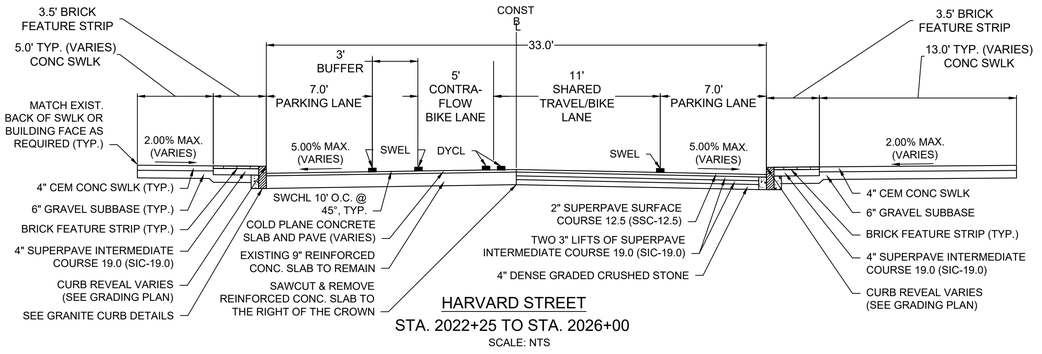
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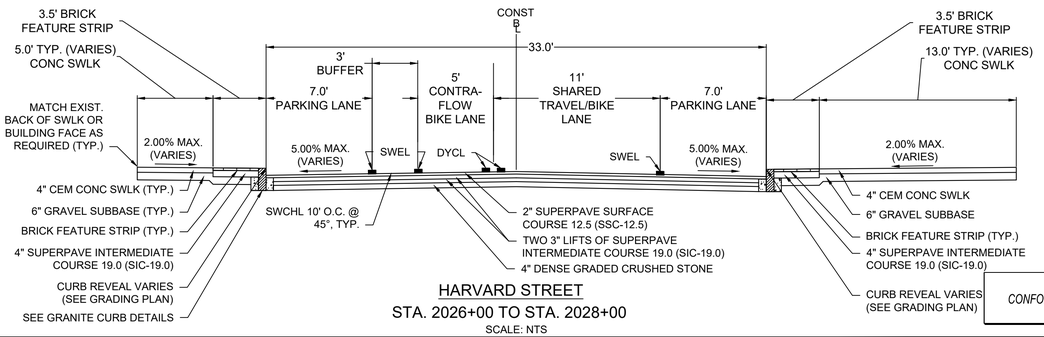
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HARVARD STREET
STA. 2022+25 TO STA. 2026+00
SCALE: NTS



HARVARD STREET
STA. 2026+00 TO STA. 2028+00
SCALE: NTS

CONFORMED

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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

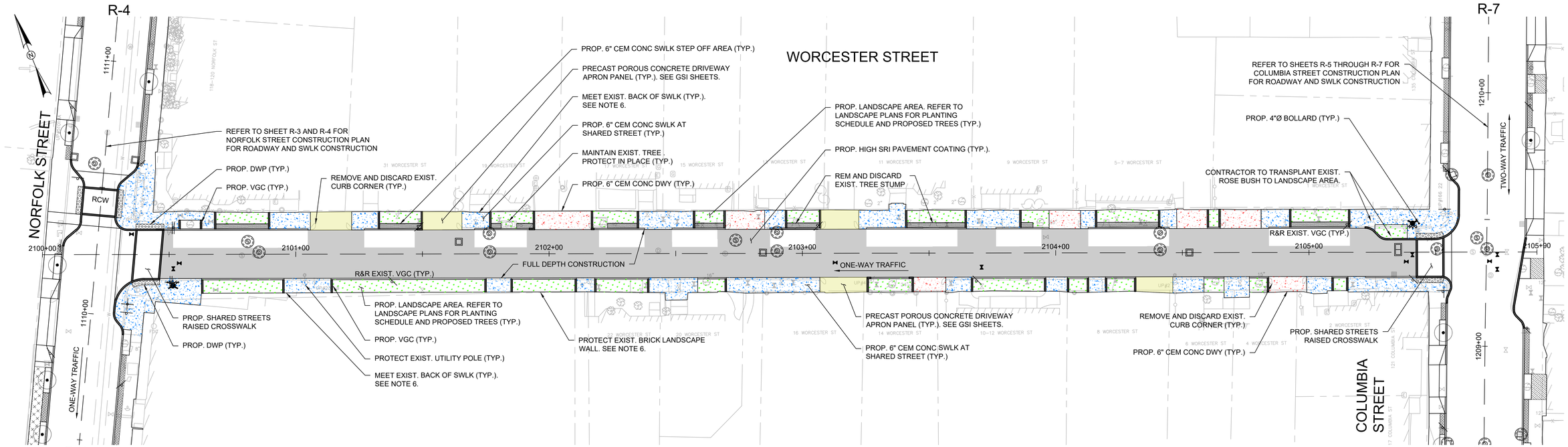
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN HARVARD STREET STA. 2022+25 TO STA. 2028+35

Sheet: R-13

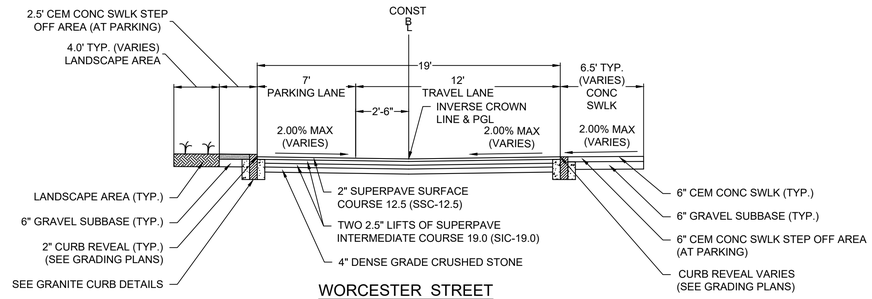
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CAD FILE: L:\City Of Cambridge\MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Harvard Street.dwg LAYOUT: R-13 BY: peter garland



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



WORCESTER STREET
STA. 2100+50 TO STA. 2105+57
SCALE: NTS

NOTES:

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LEGEND:

- PROPOSED 6" CEMENT CONCRETE DRIVEWAY AT SHARED STREET
- PROPOSED 6" CEMENT CONCRETE SIDEWALK AT SHARED STREET
- PROPOSED 6" CEMENT CONCRETE SIDEWALK STEP OFF AREA
- PROPOSED LANDSCAPE AREA
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- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL

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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

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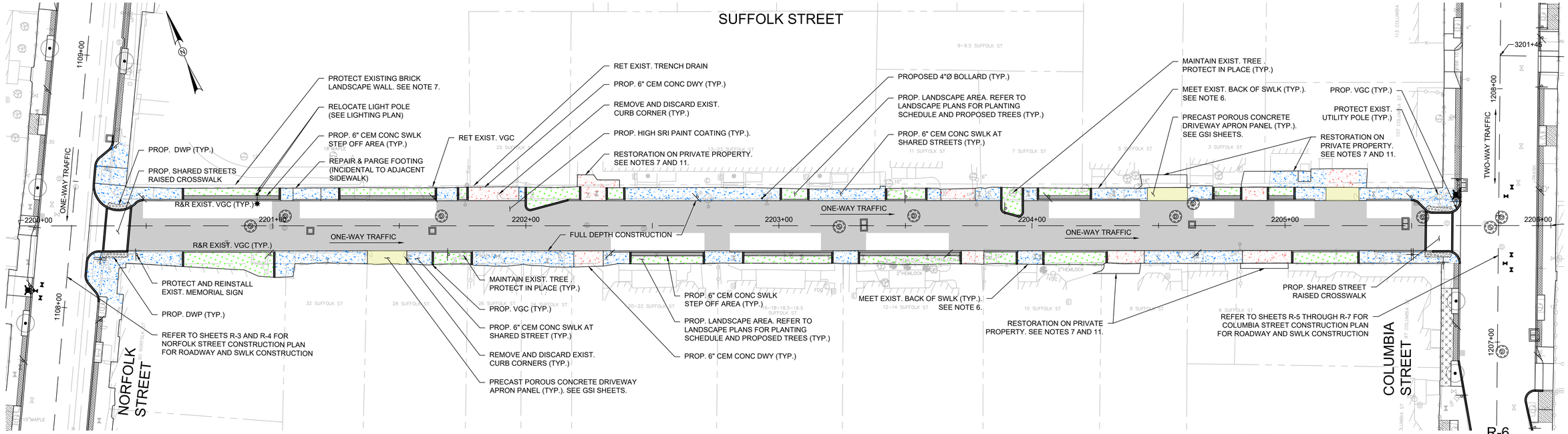
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN
WORCESTER STREET STA. 2100+00 TO STA. 2105+90

Sheet: R-14

File No.: 30724

Plot date: 12/5/2025 3:03:23 PM
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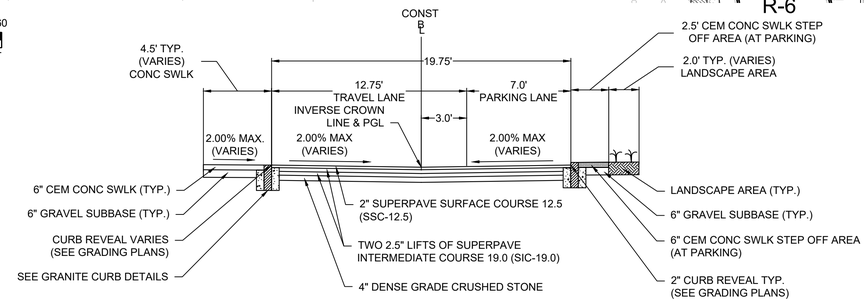


PLAN

SCALE: 1" = 20"

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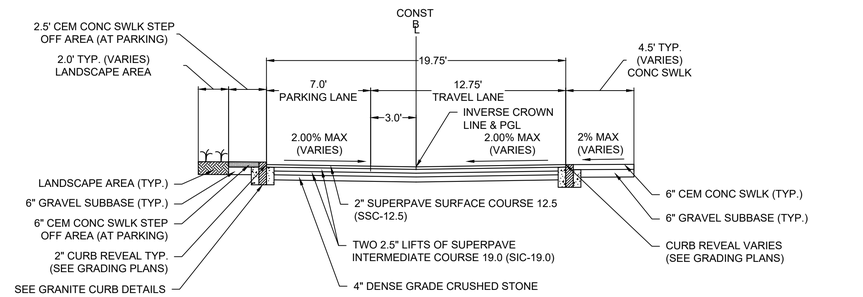
SCALE: 1" = 20' SCALE IN FEET



SUFFOLK STREET

STA. 2200+00 TO STA. 2204+07

SCALE: NTS



SUFFOLK STREET

STA. 2204+07 TO STA. 2205+70

SCALE: NTS

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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

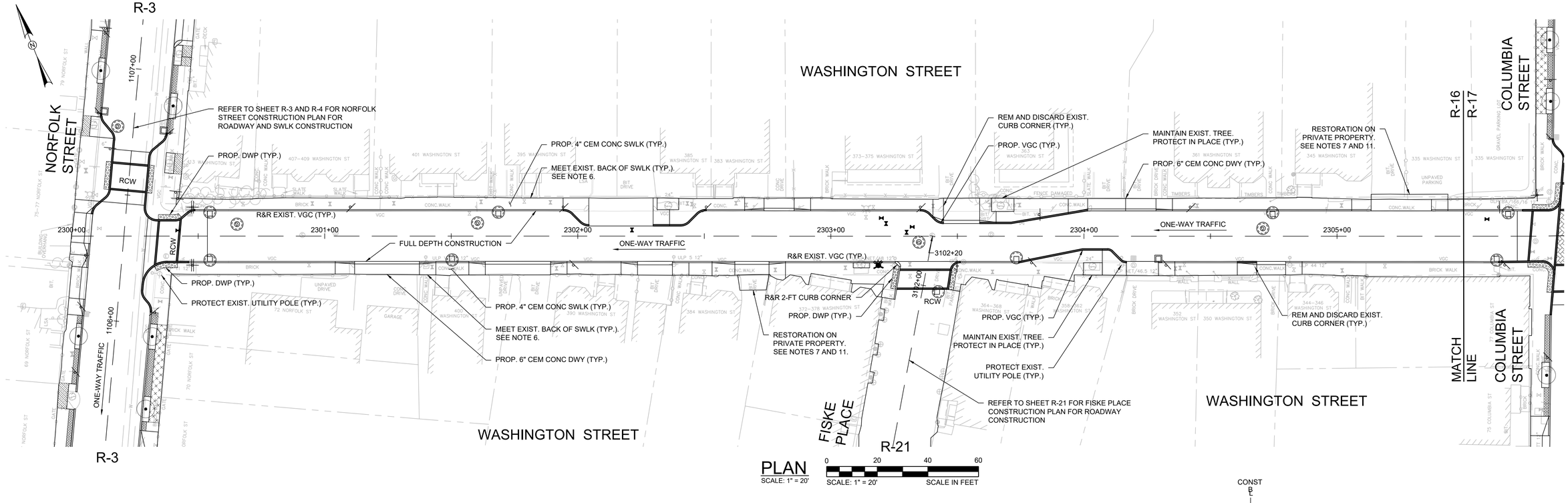
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN SUFFOLK STREET STA. 2200+00 TO STA. 2206+05

Sheet: R-15

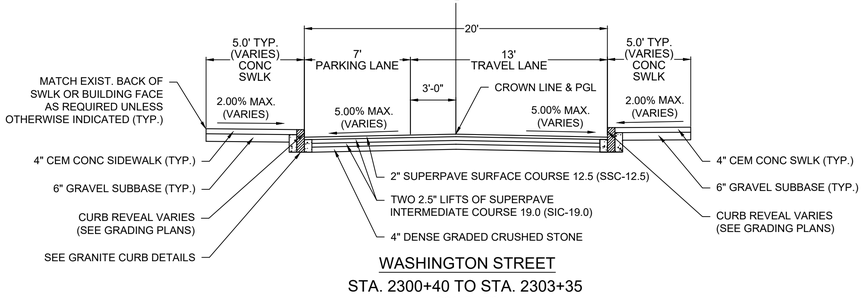
File No.: 30724

Plot date - 12/9/2025 11:42:59 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Suffolk Street.dwg LAYOUT: R-15 BY: peter garland

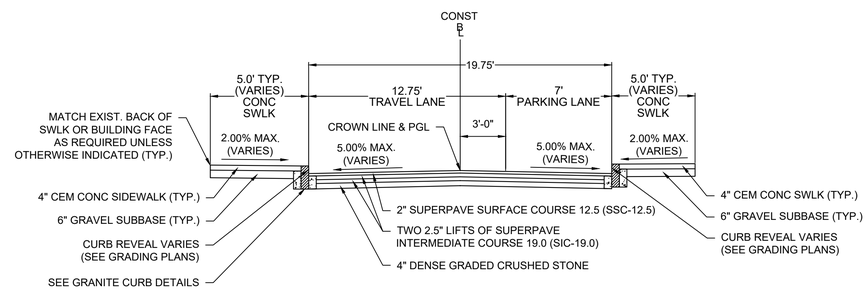


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



WASHINGTON STREET
STA. 2300+40 TO STA. 2303+35
SCALE: NTS



WASHINGTON STREET
STA. 2304+35 TO STA. 2305+50
SCALE: NTS

NOTES:

1. CONTRACTOR SHALL ADJUST EXISTING CAMBRIDGE OWNED UTILITY COVERS AND CASTINGS TO ALL INTERIM AND FINAL GRADES. CONTRACTOR TO COORDINATE WITH RESPECTIVE PRIVATE UTILITY COMPANIES FOR GAS/TELECOM/CABLE/ELECTRIC/MBTA.
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4. CONTRACTOR TO ADJUST TREE PIT OPENINGS AS NECESSARY TO MAINTAIN A MINIMUM AREA OF 20 SF.
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8. CONTRACTOR SHALL MATCH THE EXISTING ROADWAY PAVEMENT GRADE AT THE LIMIT OF PROPOSED PAVEMENT MILLING AND OVERLAY. THE JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE TREATED WITH PAVEMENT SEALANT AND HOT POURED RUBBERIZED ASPHALT SEALER.
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12. CONTRACTOR SHALL REMOVE REINFORCED CONCRETE SLAB AT ALL LOCATIONS WITHIN LIMITS OF FULL DEPTH EXCAVATION.

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

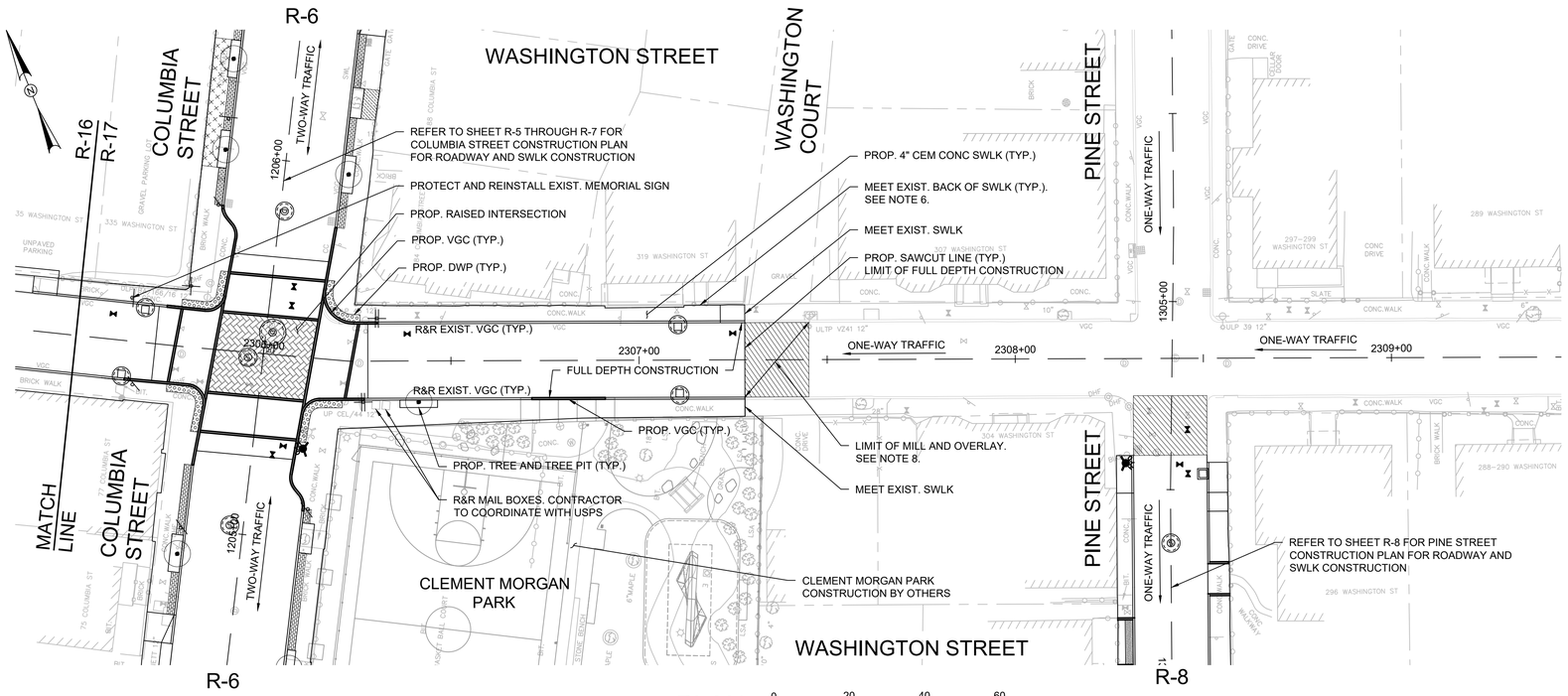
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN WASHINGTON STREET STA. 2300+00 TO STA. 2305+50

Sheet: R-16

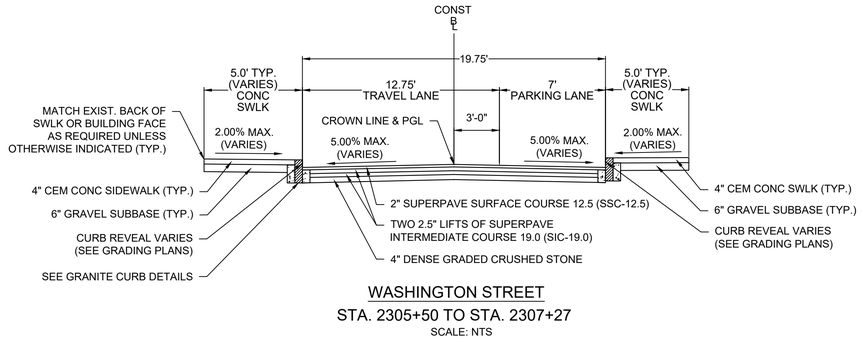
File No.: 30724

Plot date - 12/16/2025 9:20:12 PM
CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Washington Street.dwg LAYOUT: R-16 BY: peter garland



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



WASHINGTON STREET
STA. 2305+50 TO STA. 2307+27
SCALE: NTS

NOTES:

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

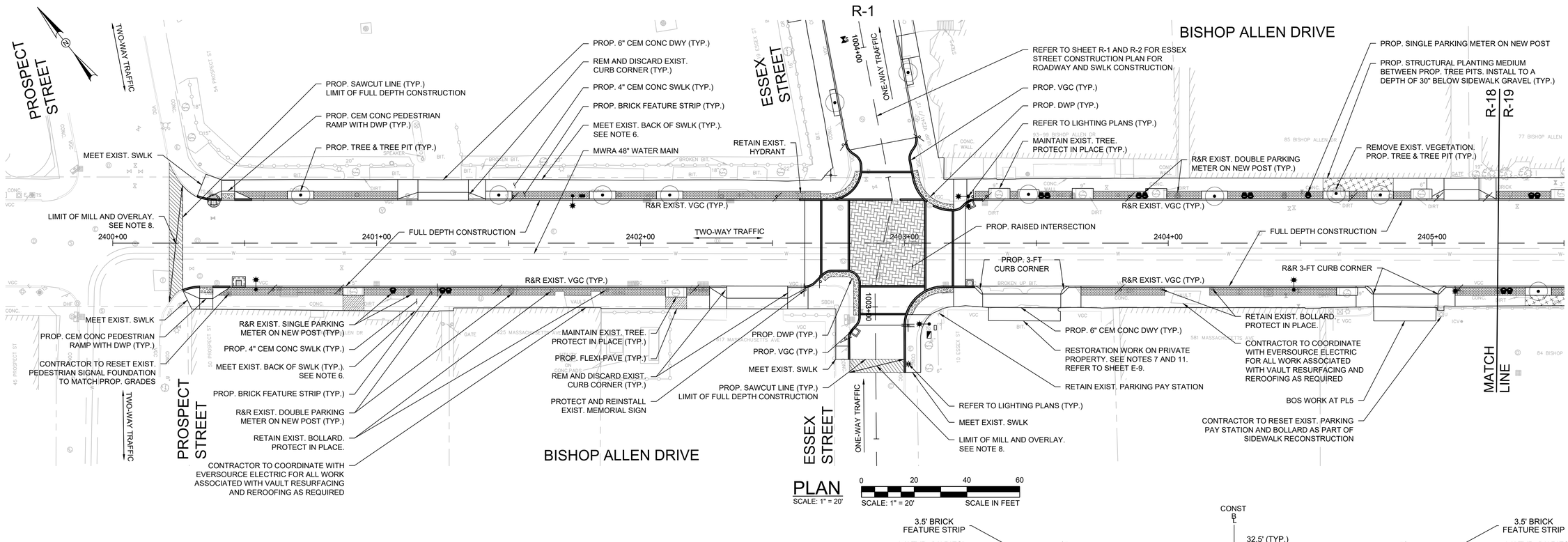
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN
WASHINGTON STREET STA. 2305+50 TO STA. 2307+27

Sheet: R-17

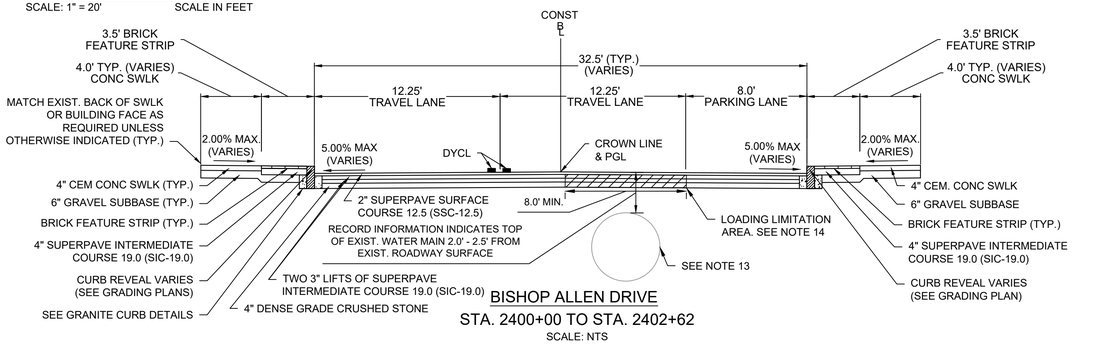
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CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Washington Street.dwg LAYOUT: R-17 BY: peter garland

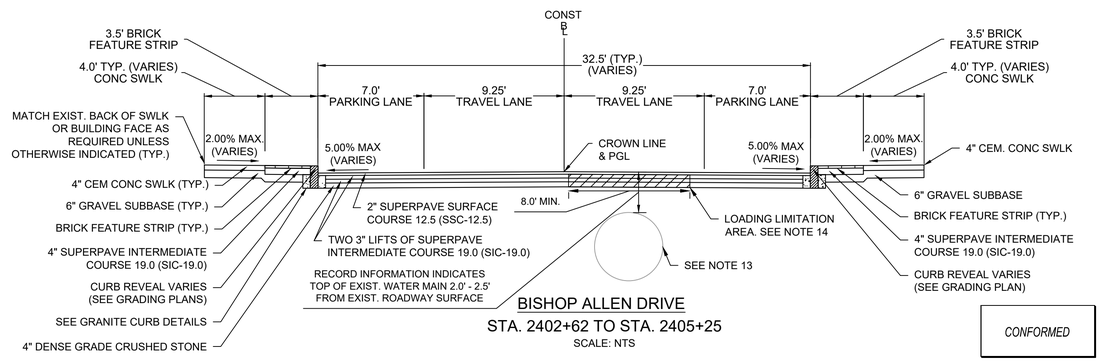


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET



BISHOP ALLEN DRIVE
STA. 2400+00 TO STA. 2402+62
SCALE: NTS



BISHOP ALLEN DRIVE
STA. 2402+62 TO STA. 2405+25
SCALE: NTS

CONFORMED

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Bright People. Right Solutions.

Stantec

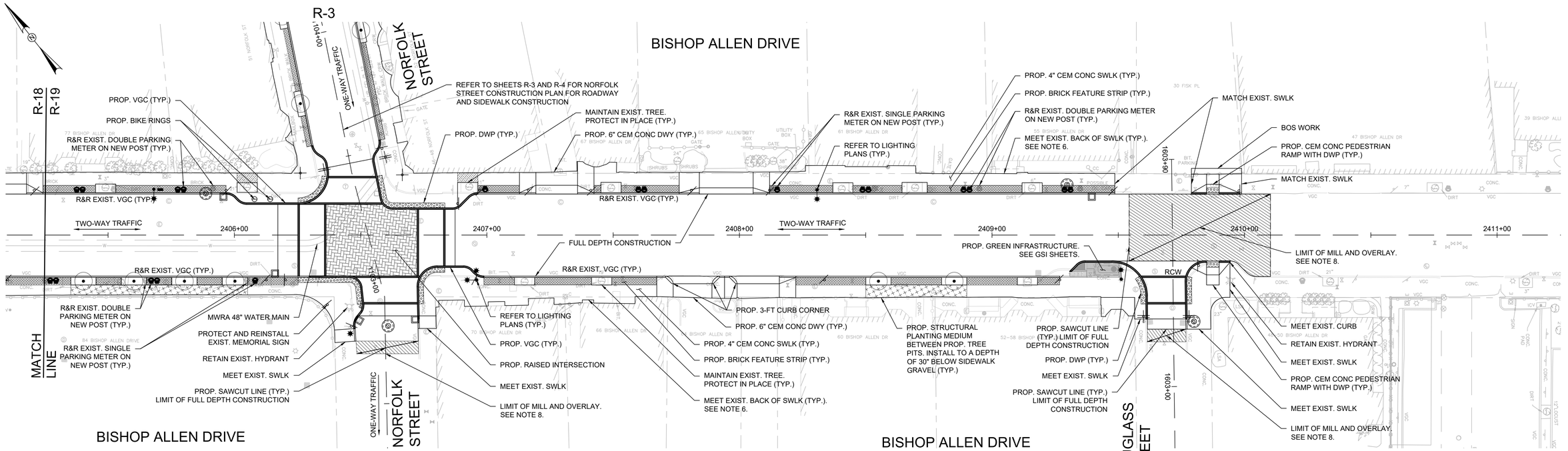
COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	MCS/ERM			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

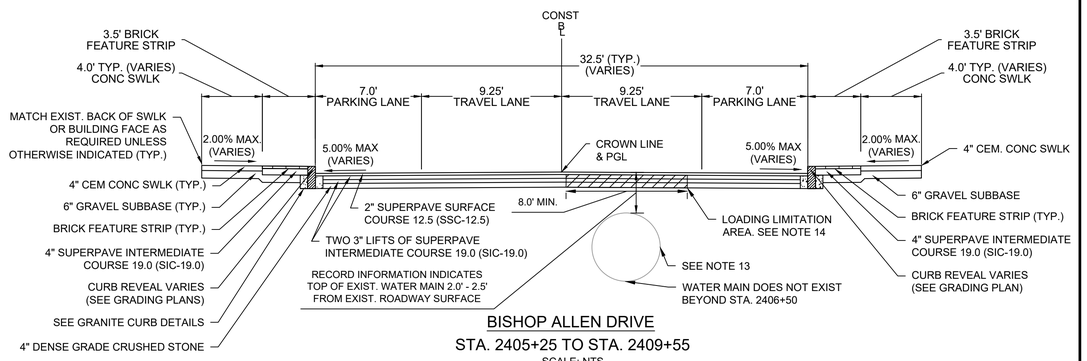
Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ROADWAY - CONSTRUCTION PLAN BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2405+25
Sheet: R-18
File No.: 30724

Plot date - 12/16/2025 9:18:29 PM
C&D FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Bishop Allen Drive.dwg LAYOUT: R-18 BY: peter garland



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20'
SCALE IN FEET



BISHOP ALLEN DRIVE
STA. 2405+25 TO STA. 2409+55
SCALE: NTS

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
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No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
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	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

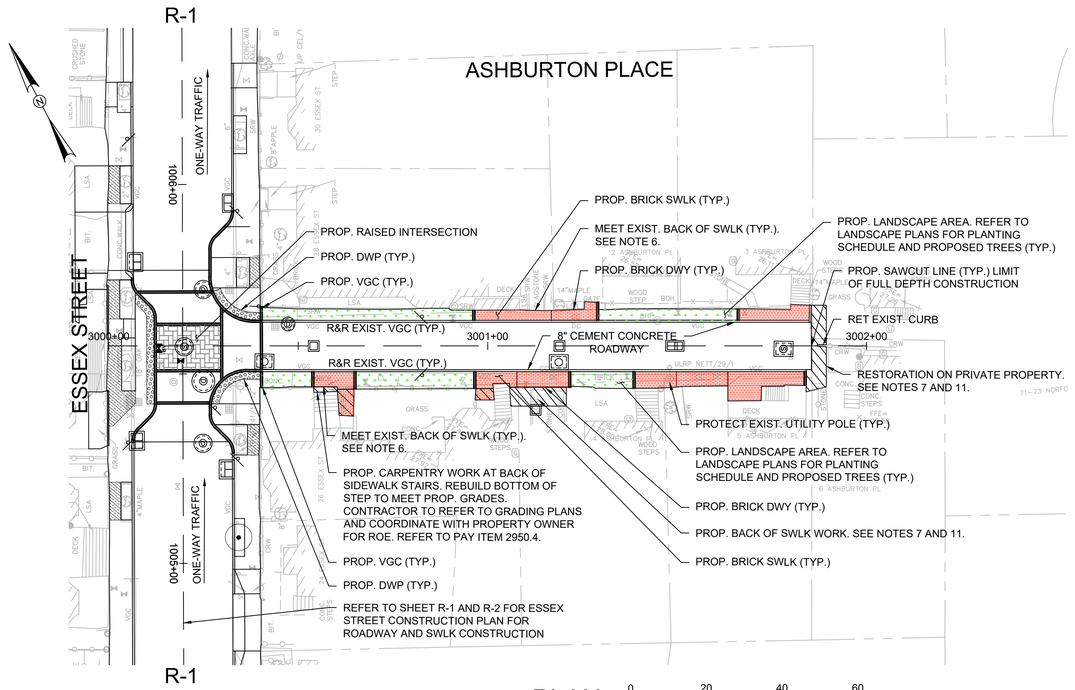
Drawing: ROADWAY - CONSTRUCTION PLAN
BISHOP ALLEN DRIVE STA. 2405+25 TO STA. 2410+75

Sheet: R-19

File No.: 30724

Plot date - 12/16/2025 9:18:29 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Bishop Allen Drive.dwg LAYOUT: R-19 BY: peter garland

Plot date: 12/5/2025 5:37:47 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Construction\Construction Plan - Ashburton & Perry Place.dwg LAYOUT: R-20 BY: peter garland



PLAN
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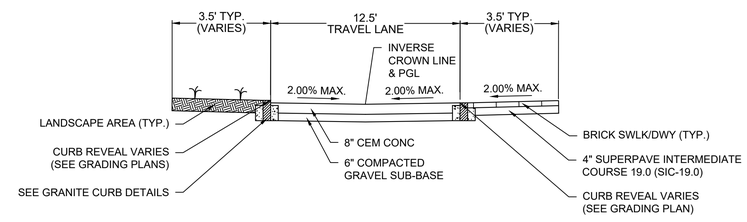
0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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9. ALL EXISTING SIGN POSTS SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED. ALL PROPOSED SIGN POSTS SHALL BE LOCATED WITH A LATERAL CLEARANCE OF 1' FROM THE BACK OF THE CURB BUT NOT LESS THAN 4' FROM THE BACK OF SIDEWALK.
10. AT EXISTING TREE LOCATIONS WITH LARGE, MATURE ROOTS, APPROXIMATE LIMITS OF FLEXI-PAVE ARE INDICATED ON THE DRAWINGS. LIMITS OF FLEXI-PAVE SHALL BE FINALIZED IN THE FIELD BY THE RESIDENT ENGINEER AND CITY OF CAMBRIDGE UPON THE REMOVAL OF THE EXISTING SIDEWALK AND REVIEW OF ROOT LOCATIONS.
11. CONTRACTOR SHALL NOT PERFORM ANY WORK ON PRIVATE PROPERTY UNTIL A SIGNED RIGHT-OF-ENTRY (ROE) IS RECEIVED FROM THE PROPERTY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ROE WITH THE PROPERTY OWNER.

LEGEND:

- PROPOSED BRICK AT SHARED STREET DRIVEWAY
- PROPOSED BRICK AT SHARED STREET SIDEWALK
- PROPOSED LANDSCAPE AREA



ASHBURTON PLACE
STA. 3000+30 TO STA. 3001+85
SCALE: NTS

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

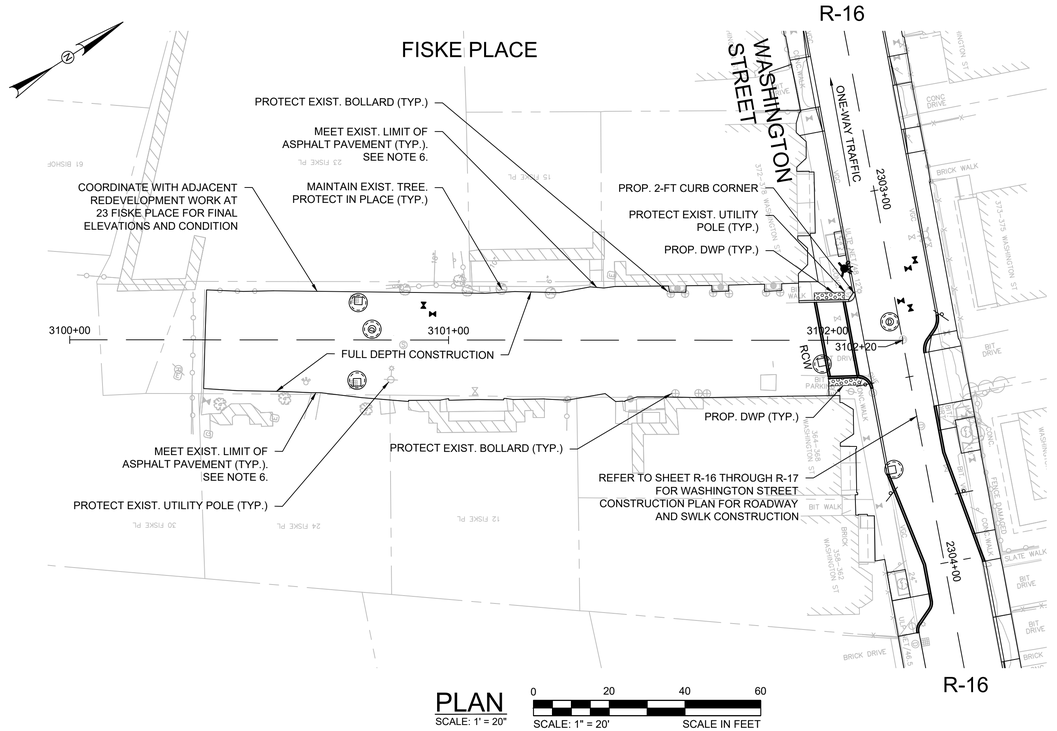
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CONSTRUCTION PLAN
ASHBURTON PLACE STA. 3000+00 TO STA. 3002+00

Sheet: R-20

File No.: 30724

Plot date: 12/2/2025 4:48:41 PM
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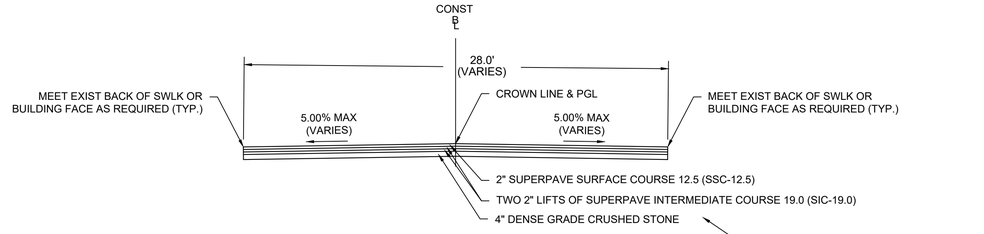


PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

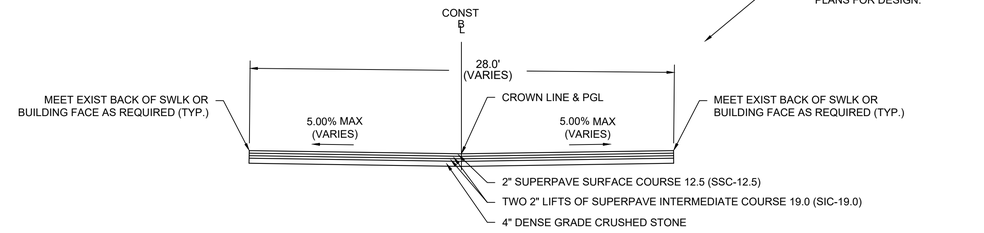
NOTES:

1. CONTRACTOR SHALL ADJUST EXISTING CAMBRIDGE OWNED UTILITY COVERS AND CASTINGS TO ALL INTERIM AND FINAL GRADES. CONTRACTOR TO COORDINATE WITH RESPECTIVE PRIVATE UTILITY COMPANIES FOR GAS/TELECOM/CABLE/ELECTRIC/MBTA.
2. ALL VERTICAL GRANITE CURBING WITHIN WORK LIMITS SHALL BE REMOVED AND RESET UNLESS OTHERWISE NOTED. CURB THAT IS VISIBLY IMPACTED BY ADJACENT TREES AND/OR TREE ROOTS SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE ENGINEER AND CITY ARBORIST.
3. AT LOCATIONS WITH EXISTING TREES TO REMAIN, CONTRACTOR SHALL MAINTAIN 3'-0" MINIMUM WIDE SIDEWALK BETWEEN THE BACK EDGE OF THE TREE PIT AND BACK OF SIDEWALK UNLESS SHOWN OTHERWISE ON THE PLANS. AT LOCATIONS WITH PROPOSED OR REPLACED TREES, 4'-0" MINIMUM WIDE SIDEWALK SHALL BE PROVIDED BETWEEN THE BACK EDGE OF THE TREE PIT AND BACK OF SIDEWALK.
4. CONTRACTOR TO ADJUST TREE PIT OPENINGS AS NECESSARY TO MAINTAIN A MINIMUM AREA OF 20 SF.
5. ALL EXISTING TREES AND SHRUBS SHALL BE RETAINED UNLESS OTHERWISE NOTED.
6. ALL EXISTING FEATURES AT BACK OF SIDEWALK SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. DAMAGES OR DISLODGING OF FEATURES AT BACK OF SIDEWALK SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
7. PROPOSED ADJUSTMENTS AND RESTORATION WORK BEYOND THE BACK OF EXISTING SIDEWALK SHALL BE PAID UNDER CONTRACT ITEMS 2950.1, 2950.2, AND 2950.3.
8. CONTRACTOR SHALL MATCH THE EXISTING ROADWAY PAVEMENT GRADE AT THE LIMIT OF PROPOSED PAVEMENT MILLING AND OVERLAY. THE JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE TREATED WITH PAVEMENT SEALANT AND HOT POURED RUBBERIZED ASPHALT SEALER.
9. ALL EXISTING SIGN POSTS SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE NOTED. ALL PROPOSED SIGN POSTS SHALL BE LOCATED WITH A LATERAL CLEARANCE OF 1' FROM THE BACK OF THE CURB BUT NOT LESS THAN 4' FROM THE BACK OF SIDEWALK.
10. AT EXISTING TREE LOCATIONS WITH LARGE, MATURE ROOTS, APPROXIMATE LIMITS OF FLEXI-PAVE ARE INDICATED ON THE DRAWINGS. LIMITS OF FLEXI-PAVE SHALL BE FINALIZED IN THE FIELD BY THE RESIDENT ENGINEER AND CITY OF CAMBRIDGE UPON THE REMOVAL OF THE EXISTING SIDEWALK AND REVIEW OF ROOT LOCATIONS.
11. CONTRACTOR SHALL NOT PERFORM ANY WORK ON PRIVATE PROPERTY UNTIL A SIGNED RIGHT-OF-ENTRY (ROE) IS RECEIVED FROM THE PROPERTY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ROE WITH THE PROPERTY OWNER.



FISKE PLACE
STA. 3100+35 TO STA. 3100+87.50
SCALE: NTS

ROADWAY TRANSITIONS FROM CROWNED TO INVERTED CROWN. REFER TO GRADING PLANS FOR DESIGN.



FISKE PLACE
STA. 3100+87.50 TO STA. 3101+98.42
SCALE: NTS

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS/ERM
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

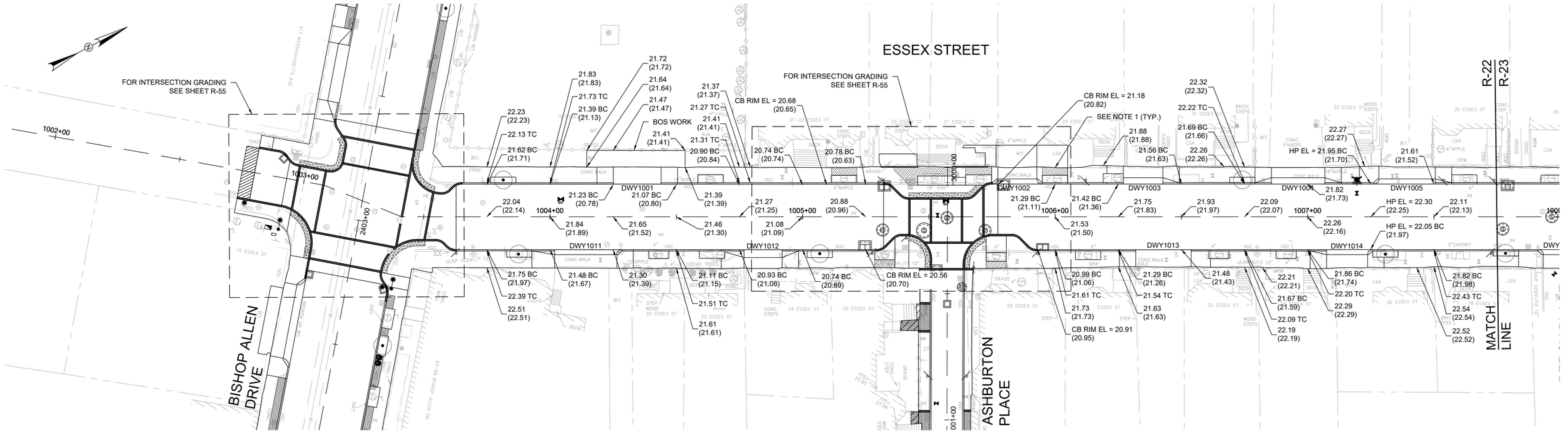
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

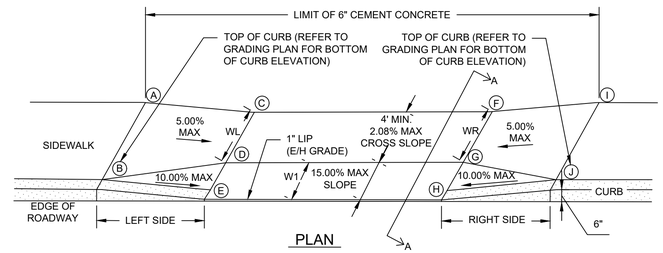
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

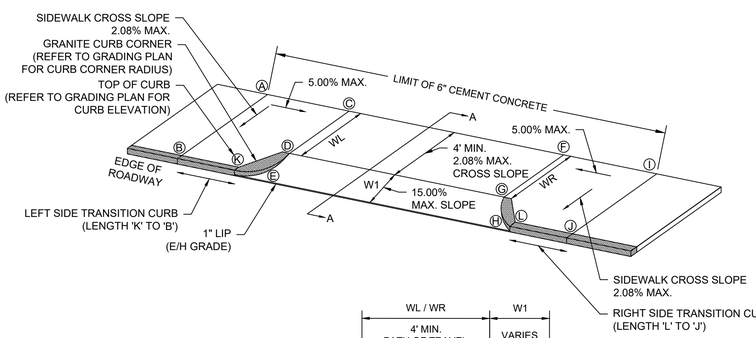
Drawing: ROADWAY - CONSTRUCTION PLAN
FISKE PLACE STA. 3100+00 TO STA. 3102+20

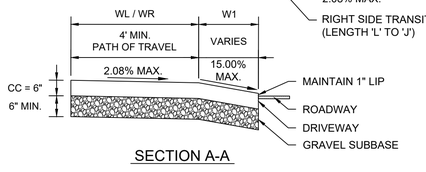
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File No.: 30724









LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

DRIVEWAYS																							
DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
1001	-	-	-	-	6.71	6.67	18.88	-0.64%	6.50	6.50	21.62	21.52	21.40	-	21.30	21.28	-	21.18	21.40	21.30	-	-
1002	2.00	2.00	2.00	2.00	4.71	4.78	15.43	0.45%	0.50	10.00	21.59	21.49	21.55	21.49	21.26	21.45	21.40	21.33	21.84	21.76	21.48	21.44
1003	2.50	2.50	-	-	4.59	4.34	15.67	0.57%	6.50	6.50	21.89	21.78	21.86	21.79	21.51	22.00	21.93	21.60	22.13	22.03	-	-
1004	2.50	2.50	-	-	4.05	4.05	21.15	0.57%	6.50	6.50	22.29	22.19	22.14	22.08	21.82	22.12	22.06	21.94	22.33	22.23	-	-
1005	2.00	2.00	2.00	-	4.55	4.22	22.35	-1.34%	5.67	6.50	22.33	22.26	22.12	22.08	21.99	21.83	21.78	21.69	22.00	21.91	21.11	-
1011	2.00	2.00	2.00	-	5.38	5.27	24.67	0.73%	4.50	9.00	21.71	21.60	21.58	21.50	21.37	21.88	21.80	21.55	22.27	22.16	21.51	-
1012	3.15	3.15	-	-	4.07	4.14	15.08	0.73%	6.50	9.00	21.46	21.33	21.28	21.21	20.88	21.49	21.43	20.99	21.79	21.66	-	-
1013	-	-	-	-	6.76	6.78	21.90	-0.78%	7.67	6.50	22.03	21.93	21.66	-	21.59	21.49	-	21.42	21.63	21.54	-	-
1014	2.00	2.00	2.00	-	5.03	5.46	16.28	-0.74%	4.50	6.50	22.52	22.41	22.36	22.28	22.12	22.30	22.21	22.00	22.28	22.21	22.30	-

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

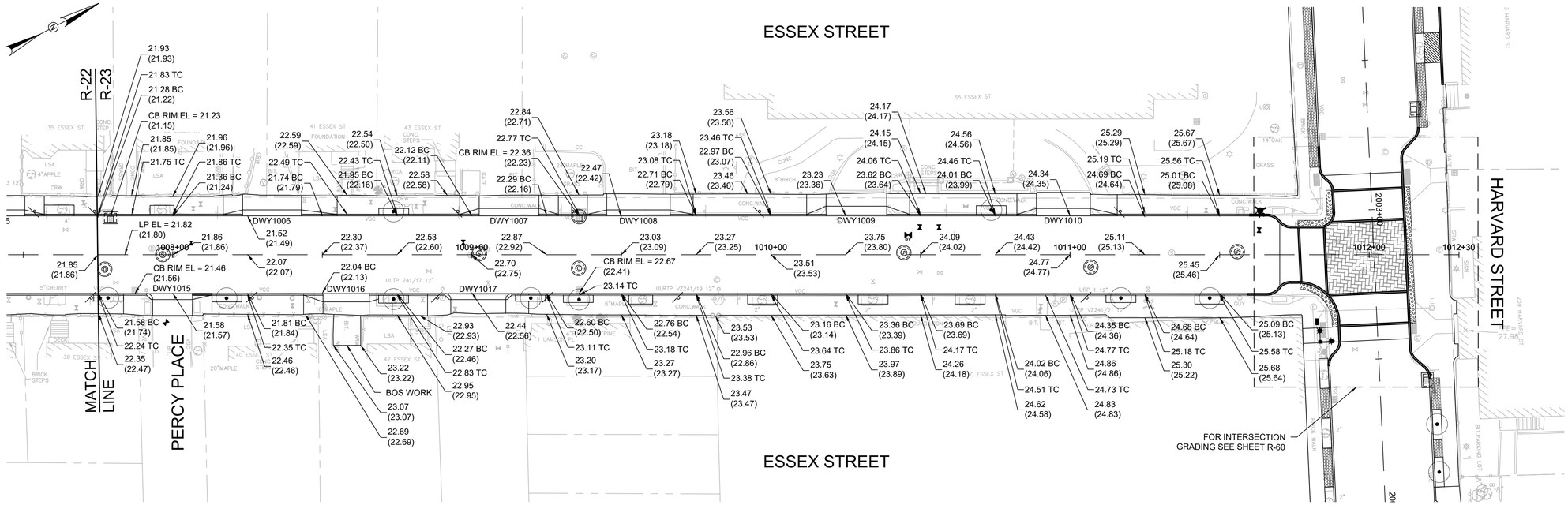
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ESSEX STREET STA. 1002+75 TO STA. 1007+75

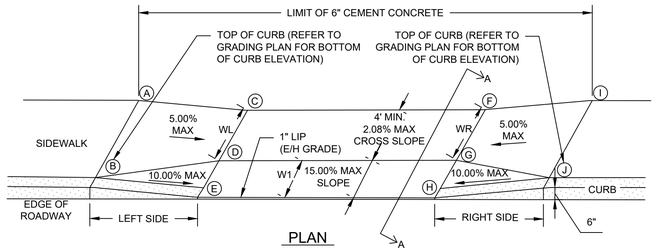
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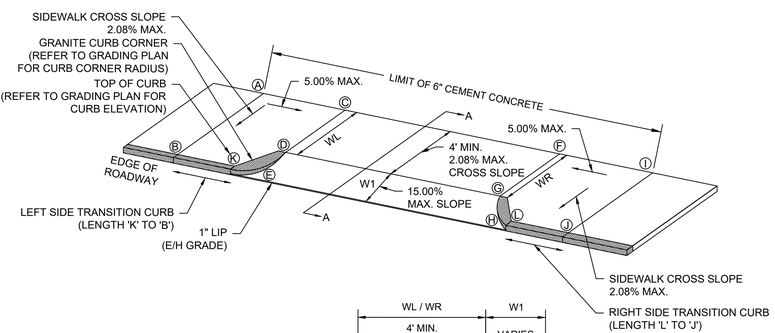
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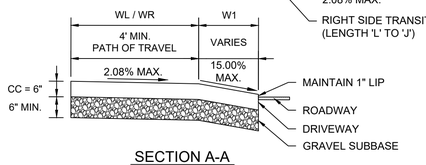
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LEGEND

W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)

CC = CEMENT CONCRETE

DRIVEWAYS																							
DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
1006	2.00	2.00	-	-	5.17	4.78	19.60	0.87%	6.50	12.00	21.96	21.85	21.72	21.65	21.59	21.98	21.90	21.76	22.52	22.45	-	-
1007	2.50	2.50	-	-	4.21	4.42	19.99	0.65%	6.50	6.50	22.57	22.47	22.52	22.45	22.22	22.54	22.48	22.35	22.73	22.66	-	-
1008	2.00	2.00	-	-	5.39	5.25	21.19	0.94%	6.50	7.67	22.88	22.81	22.62	22.56	22.50	22.88	22.80	22.70	23.15	23.08	-	-
1009	3.25	3.25	-	-	4.04	4.35	20.25	1.38%	6.50	7.67	23.69	23.58	23.76	23.70	23.24	23.96	23.90	23.52	24.11	24.00	-	-
1010	2.50	2.50	-	-	5.01	5.04	18.05	1.33%	6.50	9.00	24.64	24.53	24.69	24.61	24.27	24.92	24.84	24.51	25.16	25.05	-	-
1015	2.00	2.00	-	2.00	5.35	5.35	13.35	-0.90%	6.50	7.75	22.19	22.08	21.95	21.87	21.72	21.72	21.66	21.60	22.14	22.03	-	21.72
1016	2.75	2.75	2.00	-	4.39	4.01	15.44	-0.91%	5.67	6.50	22.95	22.82	22.75	22.68	22.26	22.61	22.54	22.12	22.69	22.57	22.68	-
1017	2.00	2.00	2.00	2.00	4.56	4.80	18.40	-0.65%	5.67	5.78	23.07	22.97	22.74	22.69	22.59	22.79	22.71	22.47	22.90	22.80	22.75	22.71

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

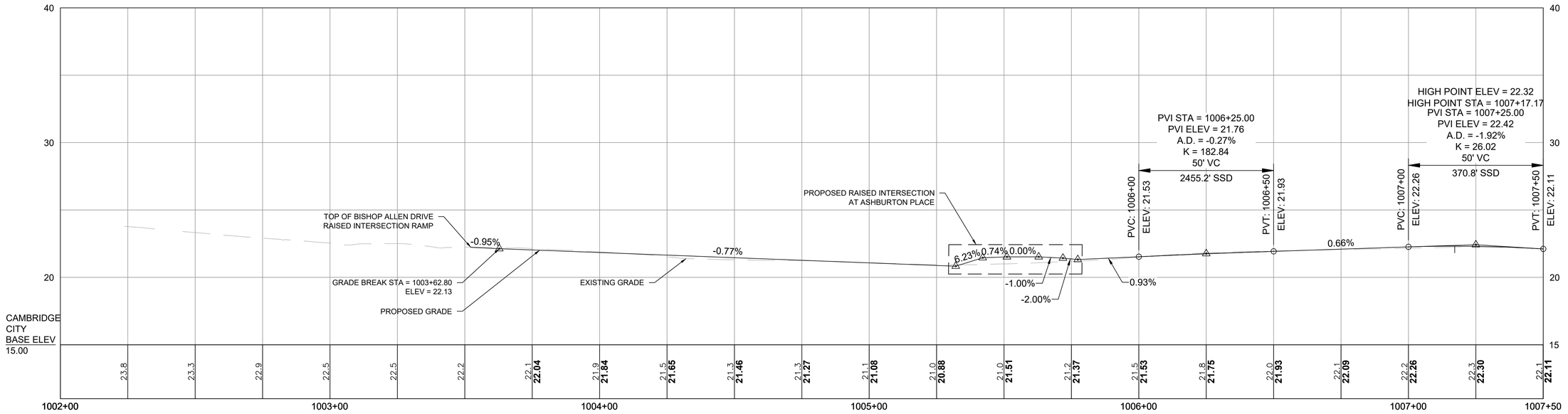
Drawing: ROADWAY - GRADING PLAN
ESSEX STREET STA. 1007+75 TO STA. 1012+30

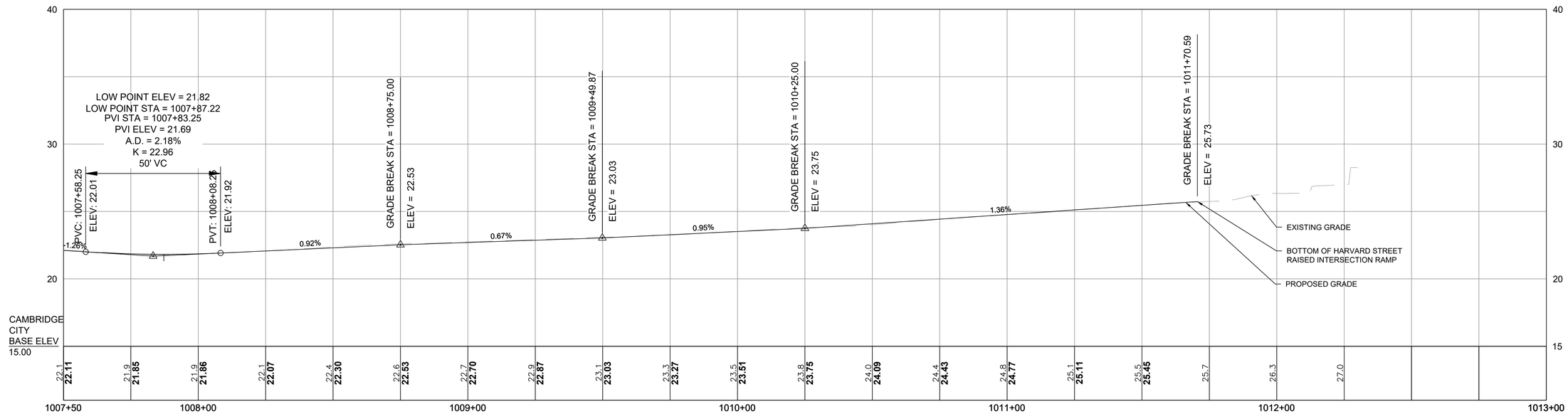
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Plot date - 12/17/2025 8:49:54 AM





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

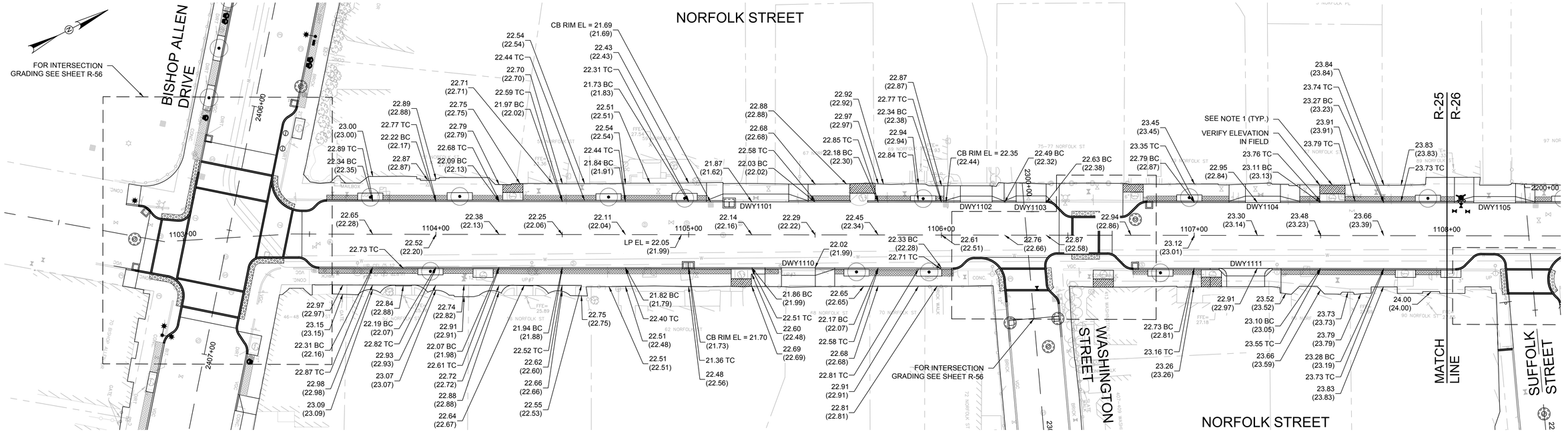
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

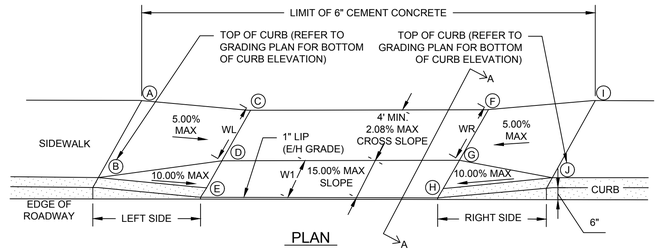
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ESSEX STREET STA. 1002+75 TO STA. 1012+30

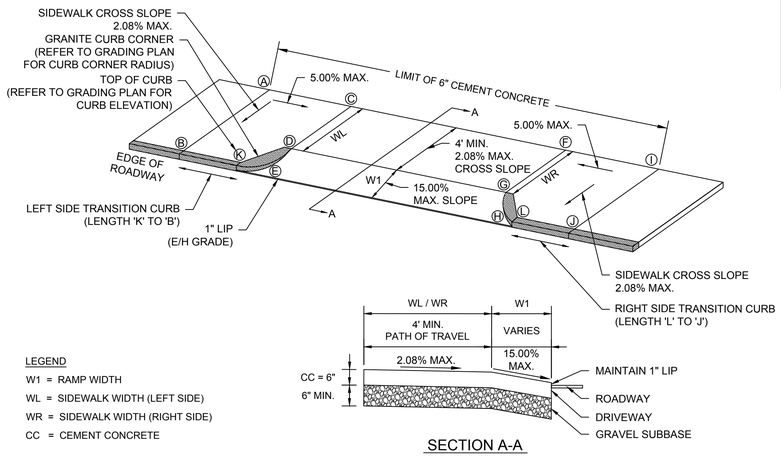
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CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Essex Street.dwg LAYOUT: R-24 BY: peter garland







LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
1101	3.09	3.09	-	-	4.57	4.00	26.02	-0.85%	6.50	7.67	22.35	22.24	22.20	22.13	21.82	22.52	22.45	22.04	22.68	22.57	-	-
1102	2.50	2.50	-	-	4.00	4.00	12.57	-0.64%	6.50	4.75	22.87	22.77	22.83	22.77	22.46	22.93	22.87	22.54	22.98	22.86	-	-
1103	2.50	2.50	-	-	5.16	4.76	11.86	-0.76%	4.75	5.14	22.98	22.86	22.90	22.83	22.61	23.03	22.96	22.70	23.15	23.04	-	-
1104	2.50	2.50	-	-	4.81	4.71	13.82	-0.65%	6.50	7.67	23.47	23.36	23.36	23.28	22.98	23.50	23.43	23.07	23.72	23.61	-	-
1110	3.00	3.00	-	-	4.49	4.49	13.39	0.67%	7.67	-	22.60	22.49	22.43	22.37	22.10	22.51	22.44	22.01	22.61	22.50	-	-
1111	3.00	3.00	3.00	3.00	4.25	4.26	15.02	0.73%	3.50	3.50	23.49	23.38	23.51	23.45	23.01	23.40	23.34	22.90	23.45	23.34	23.39	23.31

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

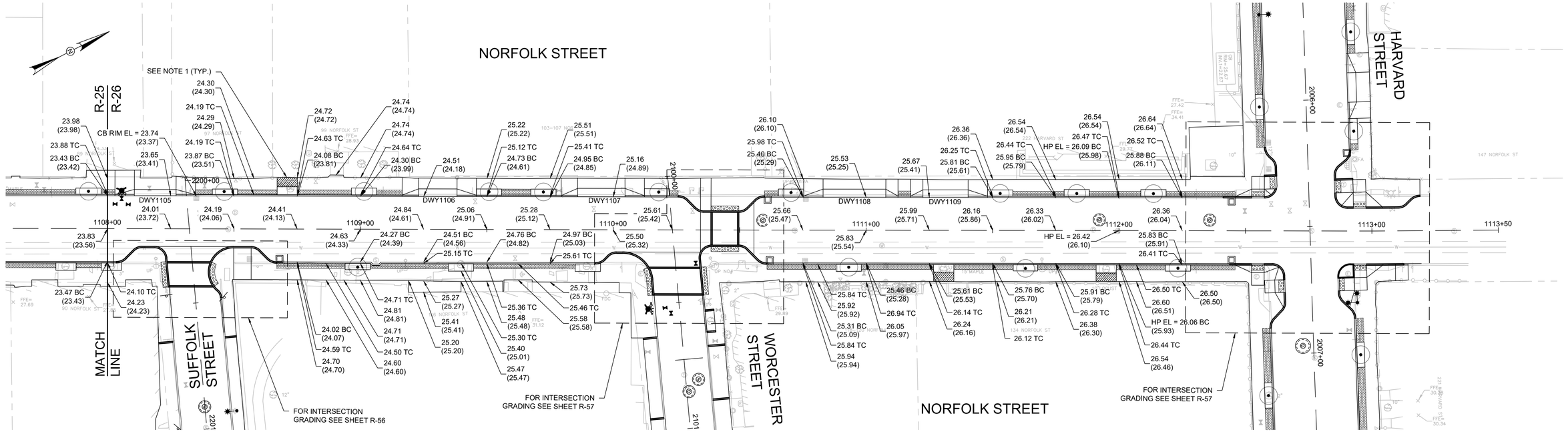
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

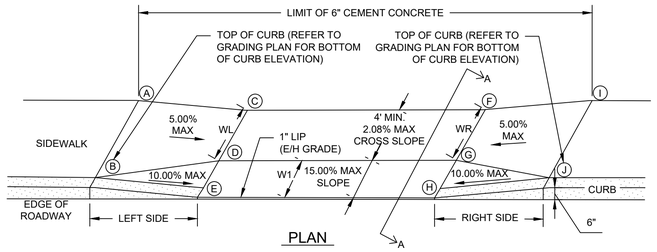
Drawing: ROADWAY - GRADING PLAN
NORFOLK STREET STA. 1102+67 TO STA. 1108+00

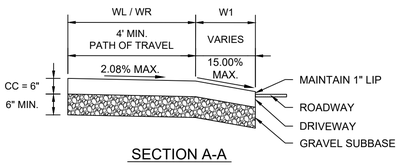
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LAYOUT - R-25
CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Norfolk Street.dwg







LEGEND

W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)

CC = CEMENT CONCRETE

DRIVEWAYS																			
DW#	DEPTH OF RAMP (W1)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS										
	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J
1105	2.50	2.50	7.62	5.23	16.50	-0.91%	7.67	7.67	23.98	23.85	23.98	23.87	23.60	24.00	23.92	23.75	24.12	24.04
1106	3.00	3.00	4.25	4.25	15.20	-0.86%	6.50	7.67	24.77	24.67	24.84	24.78	24.58	25.12	25.06	24.71	25.18	25.07
1107	3.33	3.33	4.00	4.00	18.71	-0.86%	6.50	7.67	25.54	25.43	25.58	25.52	25.12	25.67	25.61	25.28	25.73	25.62
1108	3.25	3.25	4.04	4.00	24.82	-0.56%	7.67	4.82	26.10	25.98	26.04	25.98	25.52	25.93	25.87	25.66	25.96	25.85
1109	3.00	3.00	4.16	4.02	17.92	-0.50%	4.82	7.67	25.98	25.87	26.01	25.95	25.74	26.22	26.16	25.83	26.33	26.22

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20'
SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

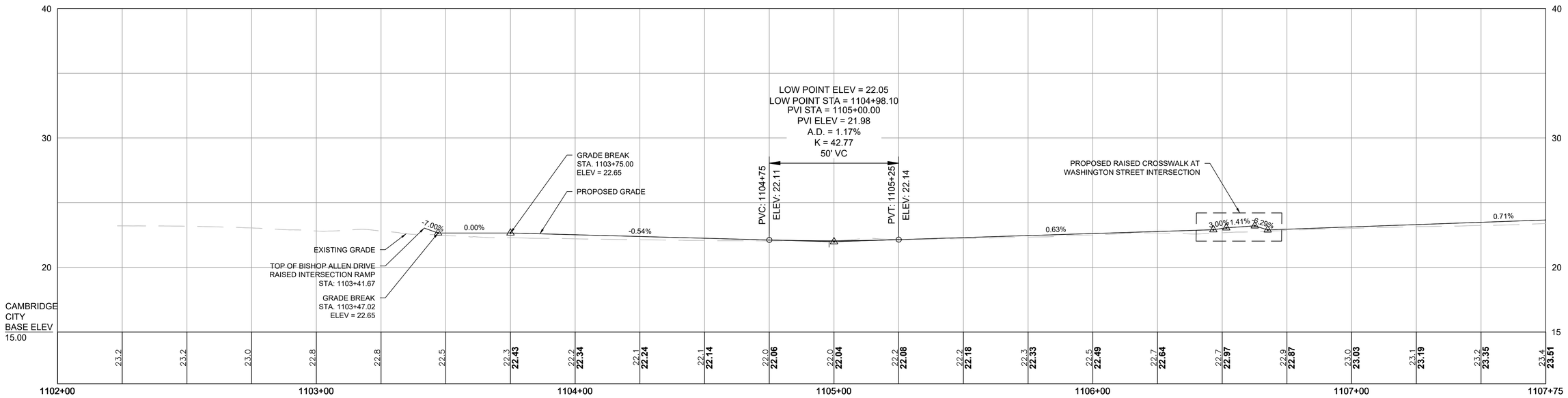
Drawing: ROADWAY - GRADING PLAN
NORFOLK STREET STA. 1108+00 TO STA. 1113+50

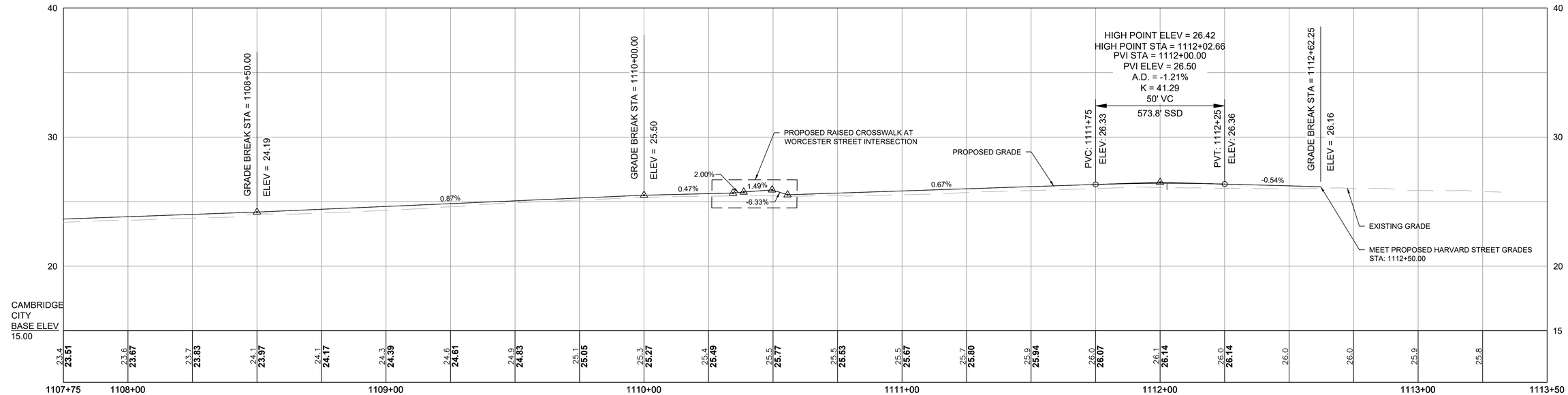
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File No.: 30724

Plot date - 12/17/2025 7:47:12 AM
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Plot date: 12/17/2025 7:47:12 AM





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
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No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

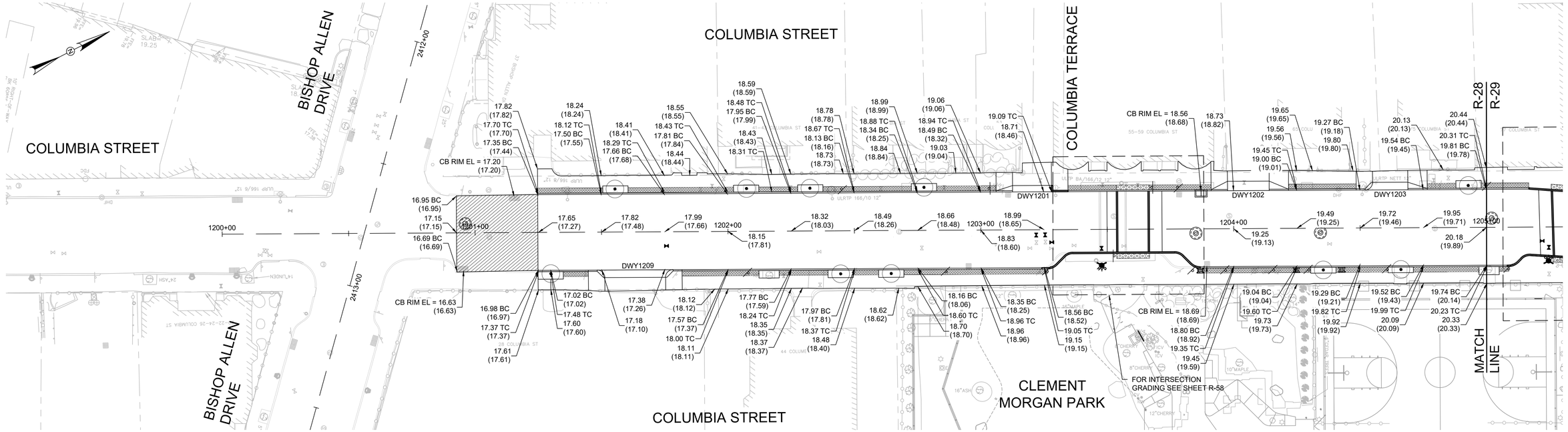
Drawing: ROADWAY - PROFILE
NORFOLK STREET STA. 1102+67 TO STA. 1113+50

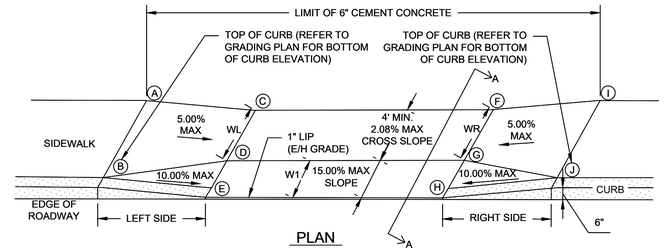
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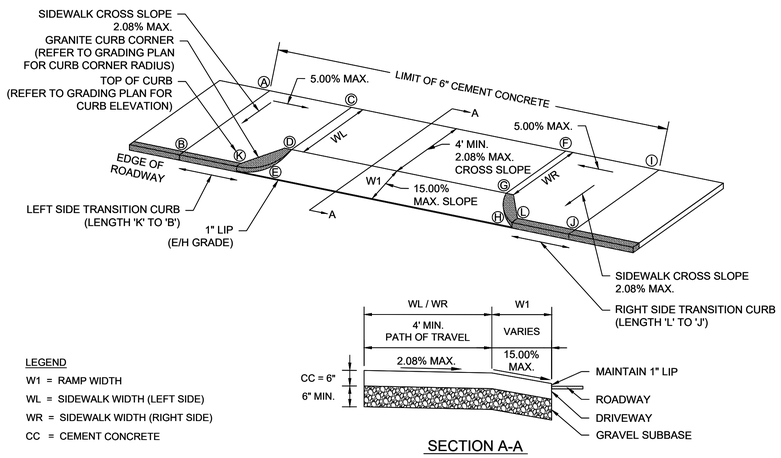
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Plot date: 12/16/2025 10:51:25 PM







SECTION A-A

LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

DRIVEWAYS																							
DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
1201	2.50	2.50	-	-	5.19	9.13	15.41	0.91%	6.50	6.50	19.13	19.01	19.07	18.99	18.68	19.25	19.11	18.82	19.24	19.12	-	-
1202	3.75	3.75	-	-	4.09	4.05	16.43	1.10%	6.50	7.67	19.33	19.17	19.30	19.24	18.78	19.38	19.32	18.96	19.51	19.39	-	-
1203	3.00	3.00	3.00	-	4.41	4.70	13.93	1.08%	3.50	7.67	19.81	19.70	19.86	19.80	19.41	20.01	19.94	19.56	20.05	19.93	19.73	-
1209	3.00	3.00	3.00	3.00	5.00	5.38	24.03	-0.79%	3.50	3.50	18.03	17.91	17.96	17.87	17.45	17.81	17.71	17.26	17.76	17.63	17.86	17.65

NOTES:

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PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

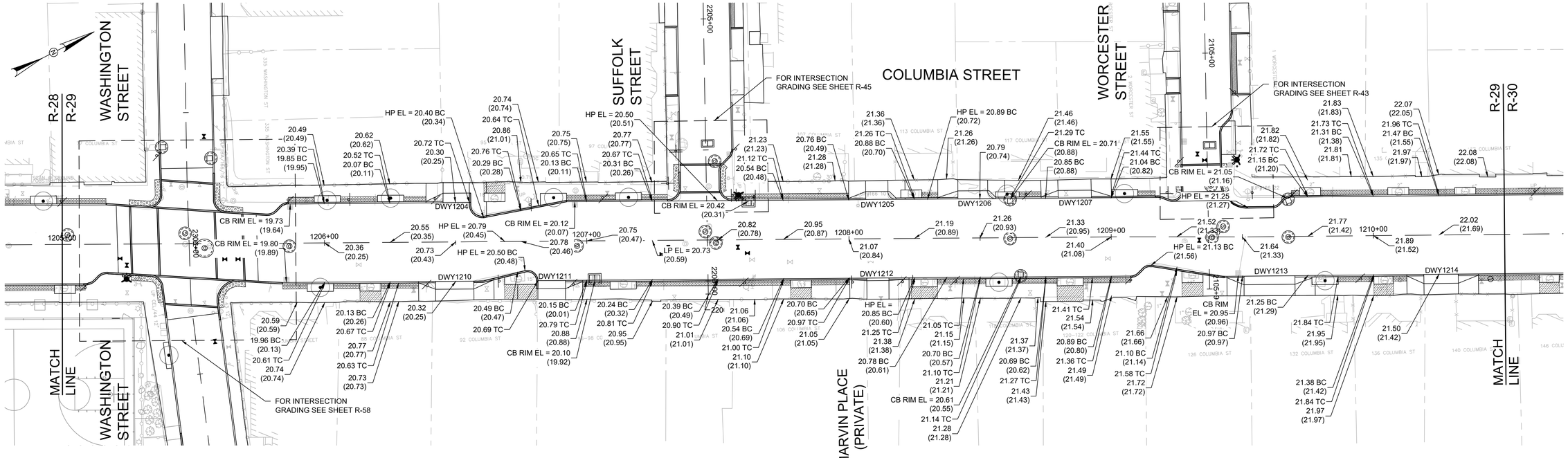
Drawing: ROADWAY - GRADING PLAN
COLUMBIA STREET STA. 1201+25 TO STA. 1205+00

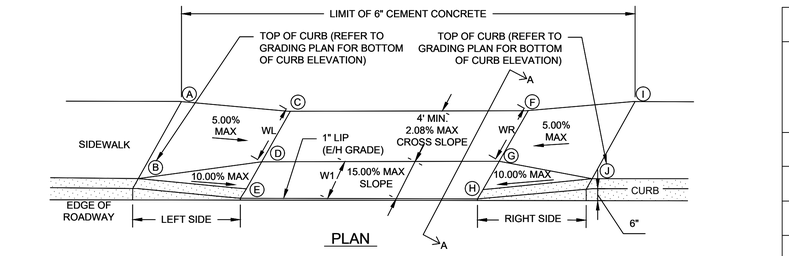
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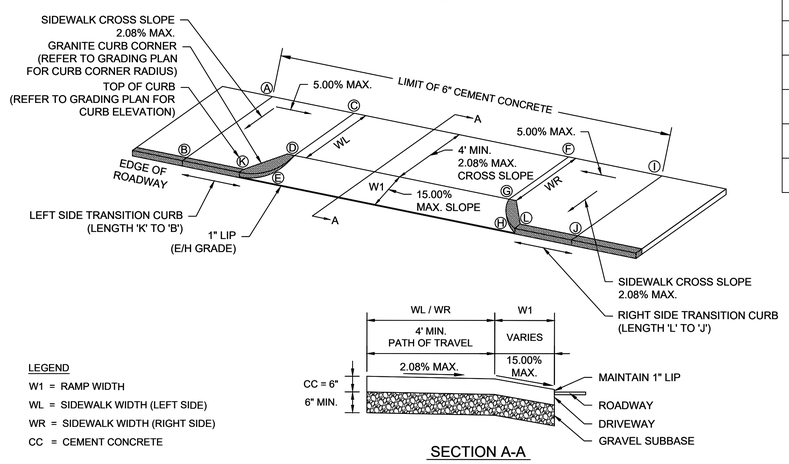
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Plot date: 12/16/2025 10:51:25 PM







LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
1204	3.60	3.60	-	-	4.16	4.04	10.06	0.89%	6.50	6.50	20.74	20.62	20.82	20.75	20.33	20.82	20.75	20.42	21.01	20.90	-	-
1205	3.00	3.00	-	3.00	4.03	4.20	8.50	0.50%	6.50	3.50	21.34	21.23	21.35	21.28	20.87	21.32	21.26	20.91	21.33	21.22	-	21.22
1206	3.00	3.00	-	3.00	4.28	4.06	11.38	-0.62%	7.67	3.50	21.40	21.29	21.28	21.22	20.92	21.25	21.19	20.85	21.37	21.26	-	21.20
1207	2.88	2.88	-	-	4.00	4.28	12.67	0.87%	6.50	7.67	21.48	21.38	21.43	21.36	20.98	21.53	21.47	21.09	21.55	21.44	-	-
1210	3.00	3.00	-	-	4.12	4.51	14.59	-0.69%	7.67	6.50	20.89	20.78	20.80	20.73	20.44	20.74	20.67	20.34	20.74	20.63	-	-
1211	3.13	3.13	-	-	4.14	4.00	10.55	1.52%	6.50	7.67	20.86	20.75	20.76	20.70	20.35	20.79	20.73	20.51	20.88	20.82	-	-
1212	1.00	1.00	-	-	7.07	7.05	8.43	-0.59%	7.67	6.50	21.29	21.21	21.01	20.92	20.87	20.99	20.88	20.82	21.05	20.97	-	-
1213	3.40	3.40	-	-	4.17	4.04	19.42	-1.18%	7.67	6.50	21.78	21.67	21.61	21.55	21.30	21.64	21.57	21.07	21.63	21.50	-	-
1214	3.50	3.50	-	-	4.04	4.27	13.13	-0.53%	7.67	6.50	22.08	21.97	22.09	22.03	21.62	21.97	21.91	21.55	22.05	21.93	-	-

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

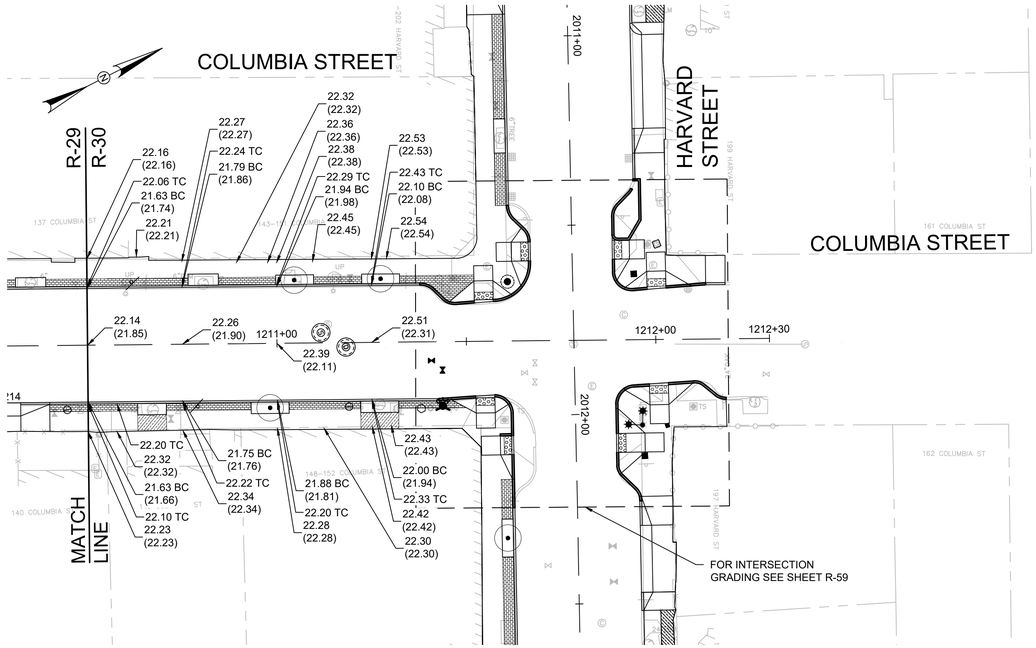
Drawing: ROADWAY - GRADING PLAN
COLUMBIA STREET STA. 1205+00 TO STA. 1210+50

Sheet: R-29

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Columbia Street.dwg LAYOUT: R-29 BY: peter garland

Plot date: 12/16/2025 10:51:25 PM



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

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CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

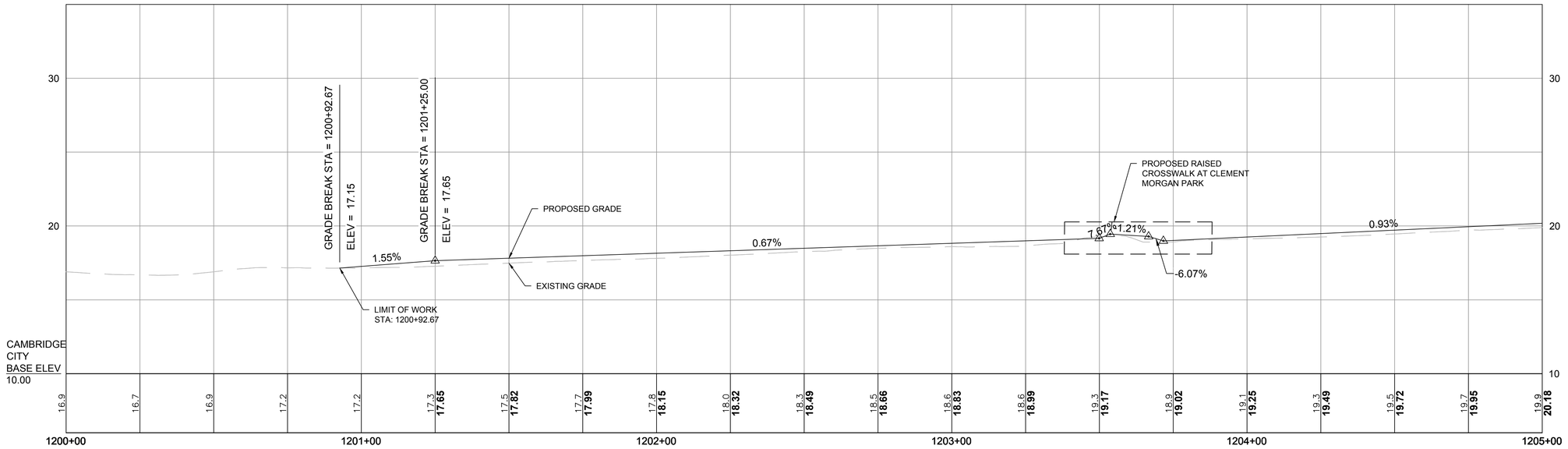
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COLUMBIA STREET STA. 1210+50 TO STA. 1215+25

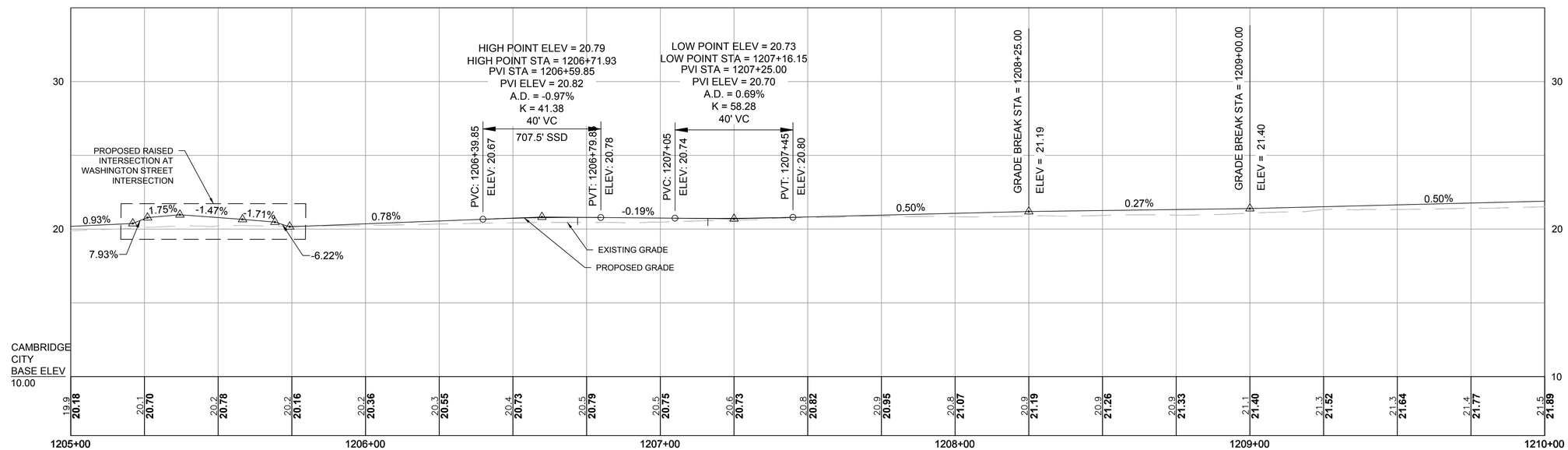
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Plot date: 12/16/2025 10:51:25 PM





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

KLEINFELDER
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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

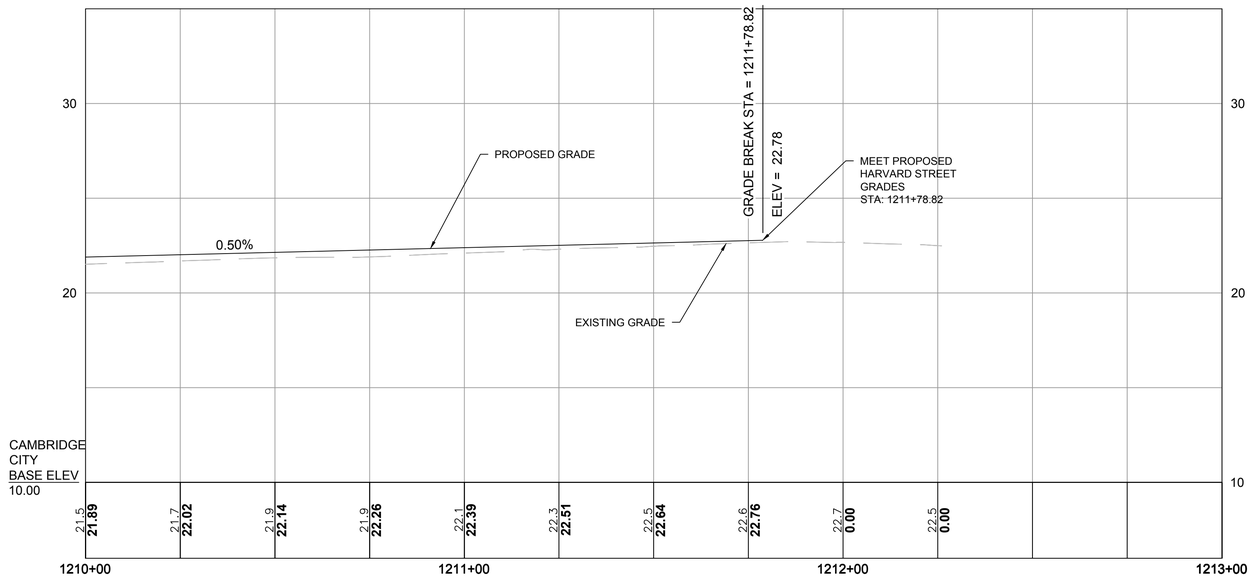
Drawing: ROADWAY - PROFILE
COLUMBIA STREET STA. 1201+25 TO STA. 1210+50

Sheet: R-31

File No.: 30724

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Plot date: 12/16/2025 10:51:25 PM



HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

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Date	APRIL 2026
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No.	Description	Date
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

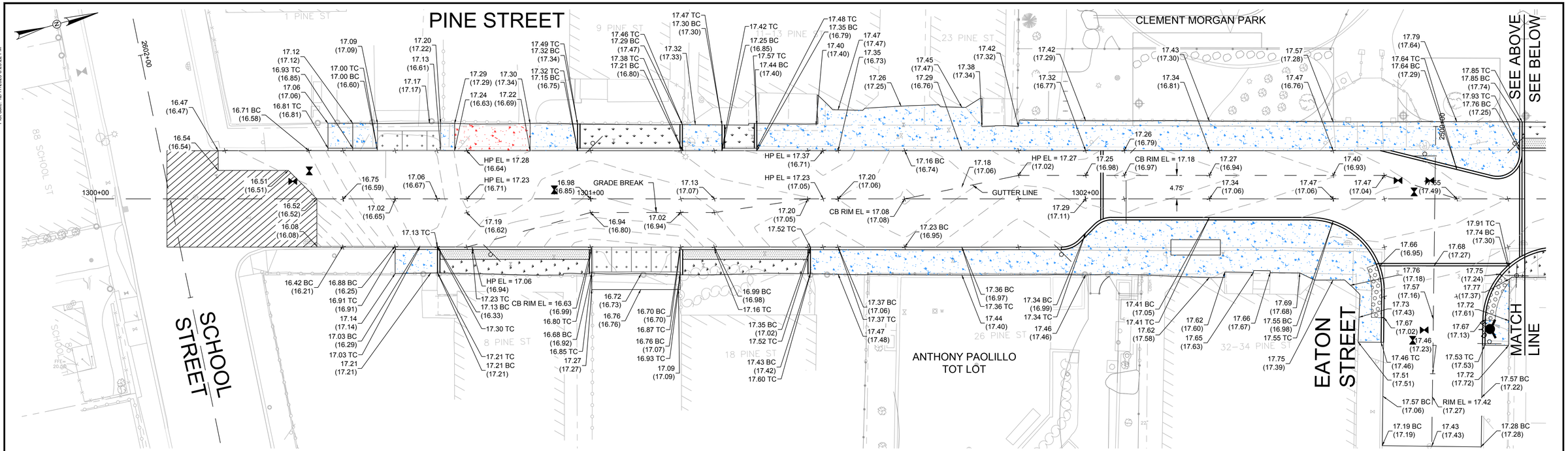
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

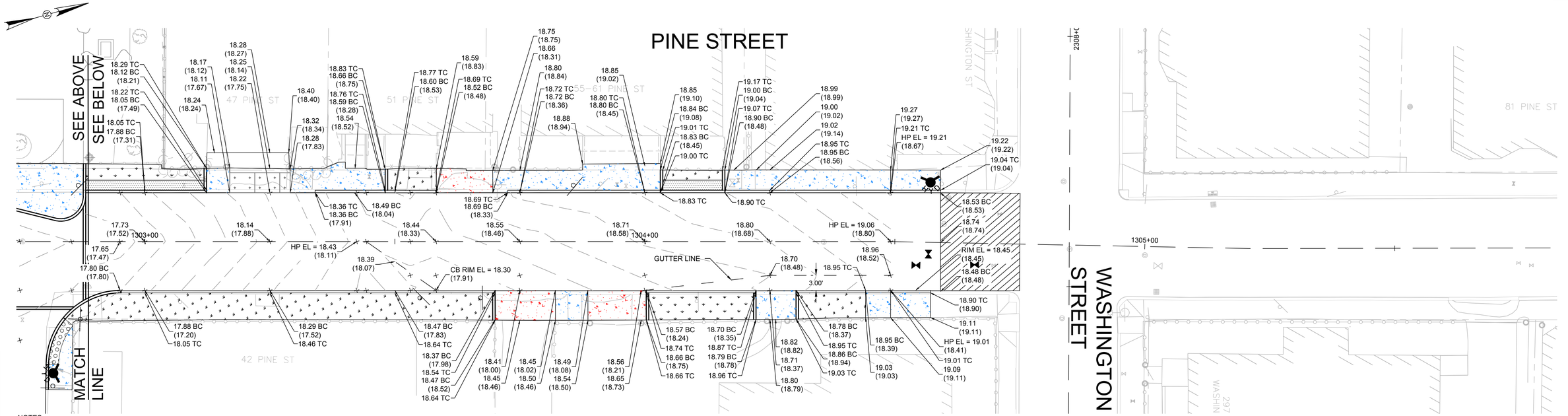
Drawing: ROADWAY - PROFILE
COLUMBIA STREET STA. 1210+50 TO STA. 1215+25

Sheet: R-32

File No.: 30724

CAD FILE: L:\City Of Cambridge\MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Columbia Street.dwg LAYOUT: R-32 BY: peter.garland





NOTES:

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CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN

SCALE: 1" = 10'

0 10 20 30

SCALE: 1" = 10' SCALE IN FEET

CONFORMED

KLEINFELDER
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Stantec

COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	BMS
Drawn by	KEA
Checked by	KEA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - GRADING PLAN
PINE STREET STA. 1300+25 TO STA. 1305+00

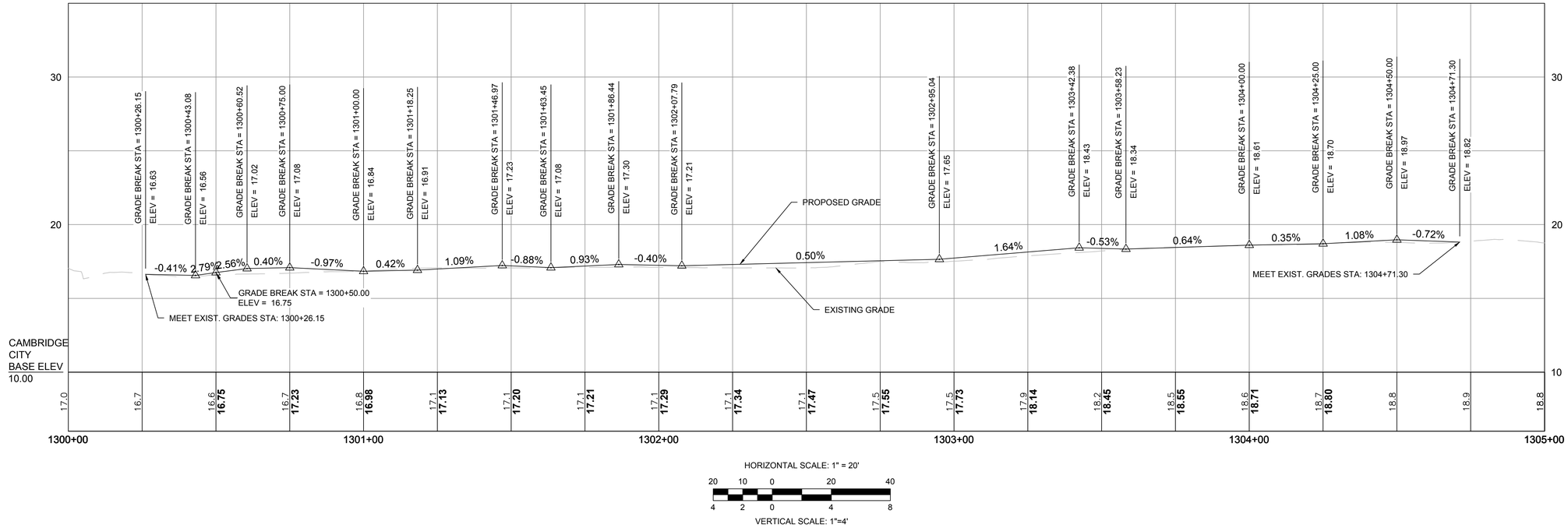
Sheet: R-33

File No.: 30724

Plot date - 12/17/2025 6:23:22 PM

CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Pine Street.dwg LAYOUT: R-33 BY: peter garland

Plot date: 12/17/2025 6:23:22 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Pine Street.dwg LAYOUT: R-34 BY: peter garland



HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

VERTICAL SCALE: 1"=4'

4 2 0 4 8

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
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REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
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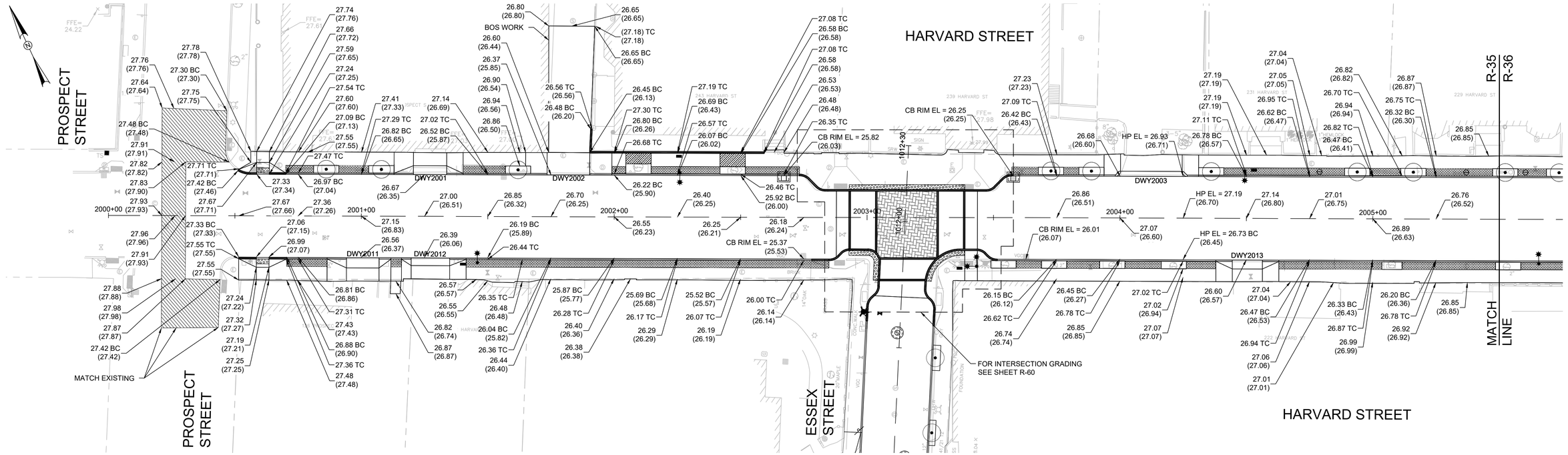
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

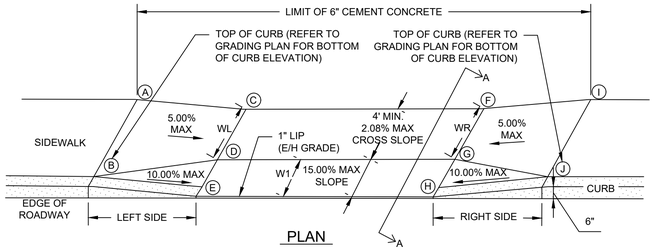
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

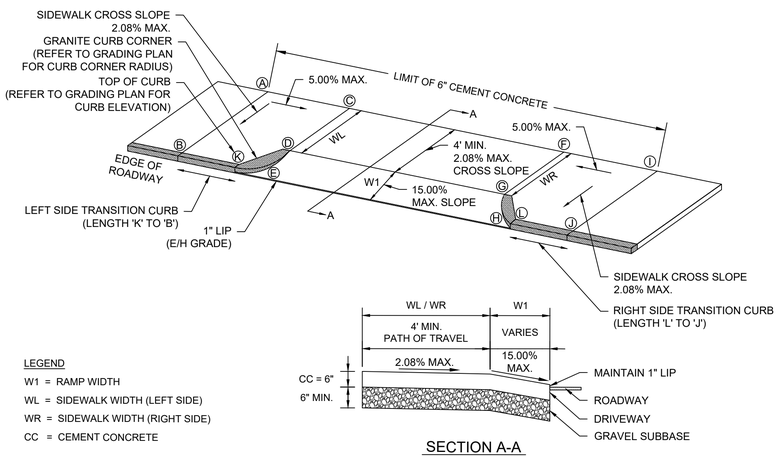
Drawing: ROADWAY - PROFILE
PINE STREET STA. 1300+25 TO STA. 1305+00

Sheet: R-34

File No.: 30724







LEGEND

W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)

CC = CEMENT CONCRETE

SECTION A-A

DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2001	3.50	3.50	-	-	5.26	5.20	13.15	0.61%	7.67	6.50	27.21	27.08	27.04	26.96	26.78	26.95	26.87	26.70	27.04	26.91	-	-
2002	-	-	-	-	8.85	8.82	16.85	0.59%	8.50	8.75	26.90	26.77	26.60	-	26.46	26.45	-	26.36	26.80	26.68	-	-
2003	2.00	2.00	2.00	2.00	6.82	6.57	24.38	-1.03%	4.50	4.50	27.19	27.06	26.95	26.85	26.76	27.15	27.08	27.01	27.31	27.22	26.89	27.11
2011	4.00	4.00	-	-	5.20	5.20	12.89	-0.78%	4.67	7.67	26.82	26.73	26.95	26.87	26.58	27.15	27.07	26.68	27.25	27.11	-	-
2012	3.00	3.00	-	-	5.36	5.19	15.23	-0.72%	6.50	3.81	26.60	26.52	26.55	26.47	26.39	26.71	26.65	26.50	26.82	26.74	-	-
2013	3.50	3.50	-	-	4.96	5.03	11.90	-0.50%	6.50	6.50	26.99	26.86	26.96	26.89	26.64	27.05	26.97	26.70	27.11	26.98	-	-

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

CONFORMED

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Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
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Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
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No.	Description	Date
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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

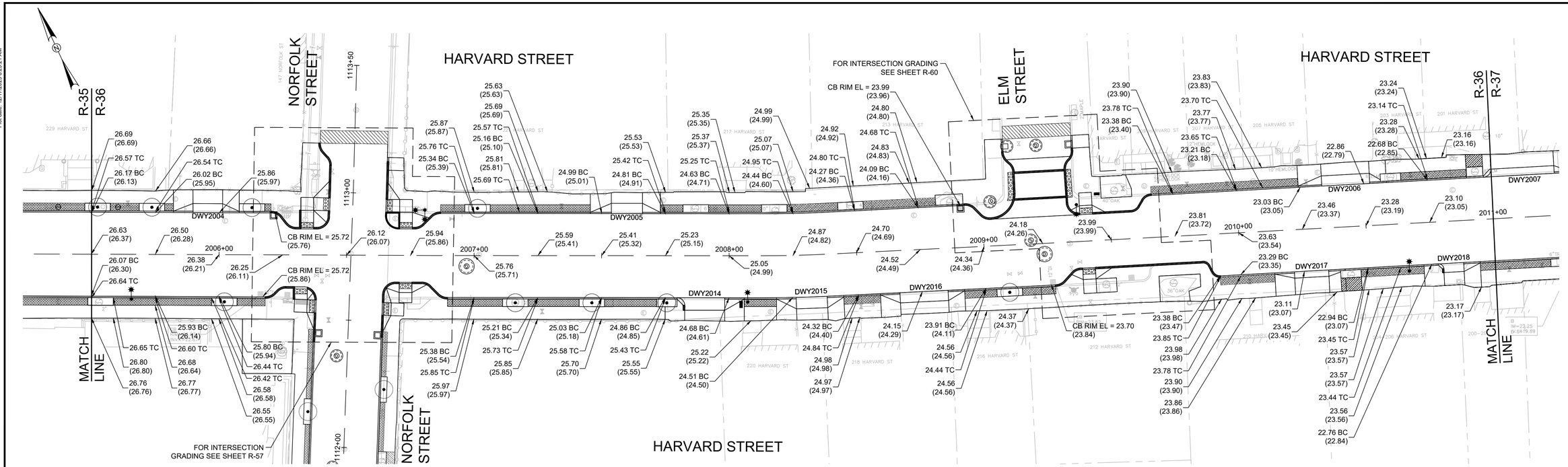
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

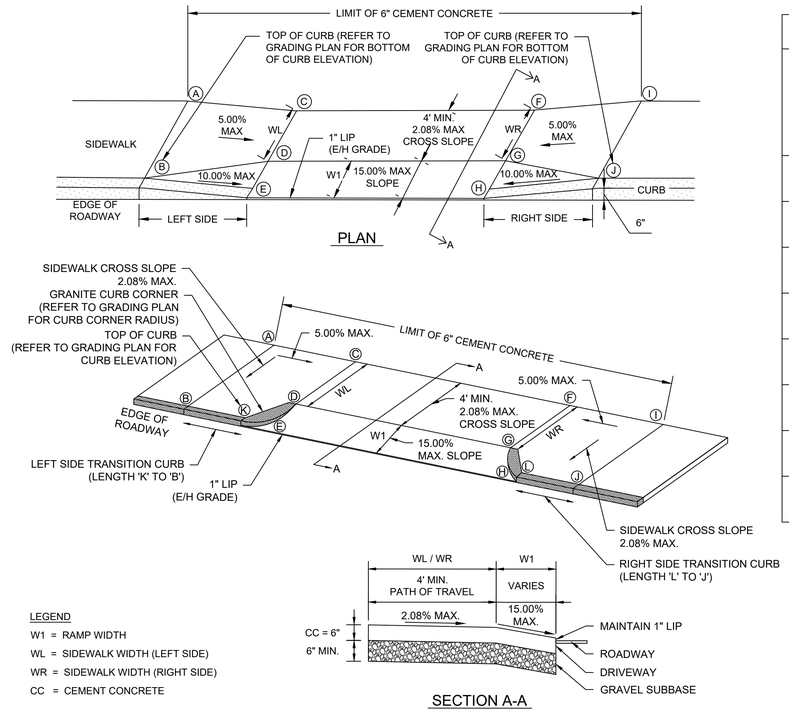
Drawing: ROADWAY - GRADING PLAN HARVARD STREET STA. 2000+00 TO STA. 2005+50

Sheet: R-35

File No.: 30724

Plot date: 12/17/2025 8:23:21 AM BY: peter garland LAYOUT: R-35
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg





LEGEND

W1 = RAMP WIDTH

WL = SIDEWALK WIDTH (LEFT SIDE)

WR = SIDEWALK WIDTH (RIGHT SIDE)

CC = CEMENT CONCRETE

SECTION A-A

DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2004	3.50	3.50	-	-	5.43	5.47	11.64	0.60%	7.67	6.50	26.59	26.46	26.47	26.39	26.00	26.39	26.31	25.93	26.41	26.28	-	-
2005	4.00	4.00	-	-	4.16	4.24	12.21	0.66%	8.25	7.00	25.76	25.62	25.69	25.62	25.04	25.54	25.47	24.96	25.58	25.44	-	-
2006	4.00	4.00	-	-	4.60	4.69	18.84	0.69%	9.25	6.50	23.84	23.69	23.59	23.52	23.05	23.50	23.43	22.92	23.27	23.14	-	-
2014	4.90	4.90	-	3.00	4.28	4.04	15.70	-0.70%	7.67	7.67	25.19	25.05	25.20	25.14	24.77	25.50	25.44	24.88	25.55	25.43	-	25.39
2015	4.50	4.50	-	-	4.66	4.45	12.25	-0.73%	6.50	7.67	24.98	24.84	25.10	25.03	24.49	25.00	24.93	24.58	25.19	25.06	-	-
2016	4.00	4.00	-	-	4.64	4.57	18.90	-0.85%	6.50	7.67	24.56	24.43	24.62	24.55	24.13	24.80	24.73	24.29	24.90	24.77	-	-
2017	2.50	2.50	-	-	6.41	6.51	13.44	-0.67%	6.50	7.67	23.47	23.34	23.35	23.26	23.13	23.56	23.46	23.22	23.80	23.66	-	-
2018	3.50	3.50	-	2.00	5.37	5.11	7.93	-0.63%	6.50	7.67	23.17	23.04	22.98	22.90	22.76	23.23	23.15	22.81	23.48	23.35	-	23.17

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

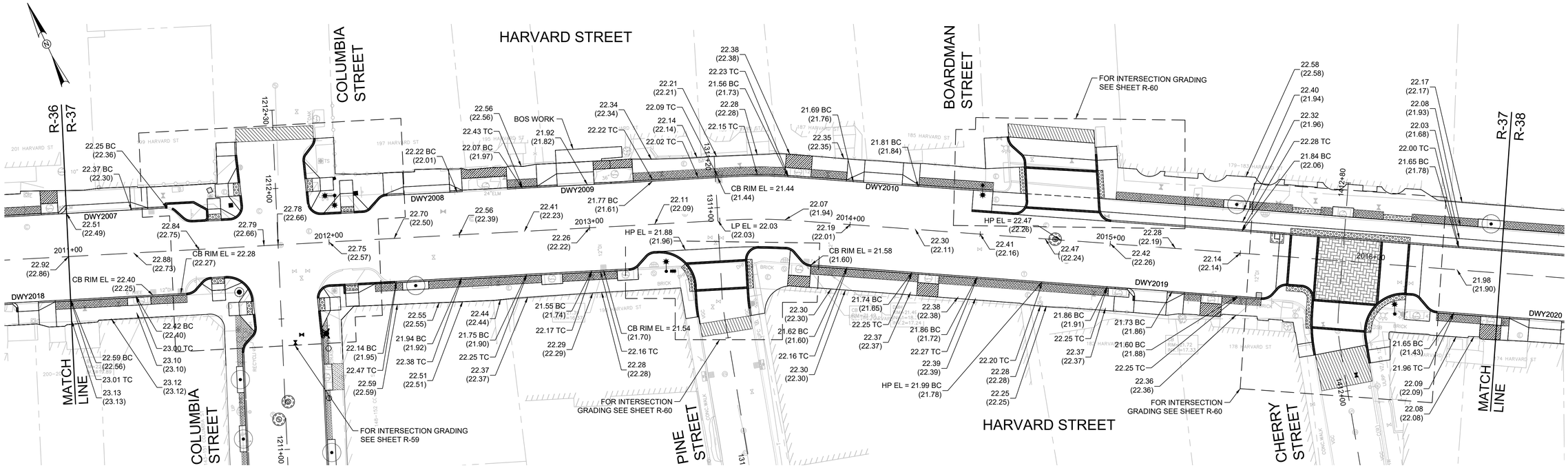
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

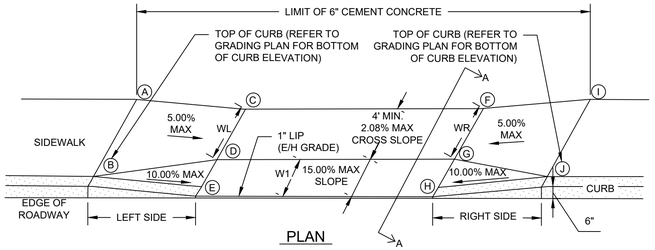
Drawing: ROADWAY - GRADING PLAN HARVARD STREET - STA. 2005+50 TO STA. 2011+00

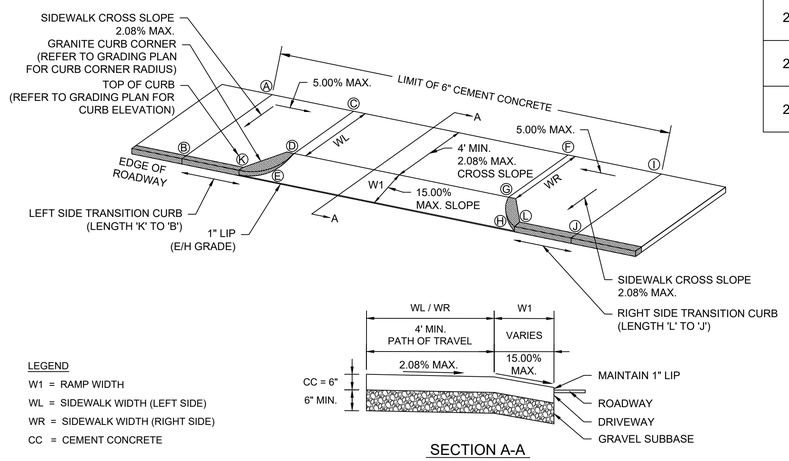
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File No.: 30724

Plot date: 12/17/2025 8:23:21 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg LAYOUT: R-36 BY: peter garland







LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2007	3.00	3.00	3.00	-	5.84	5.82	24.73	0.73%	6.66	6.50	23.13	23.00	23.01	22.92	22.59	22.80	22.71	22.41	22.86	22.73	22.92	-
2008	3.00	3.00	-	-	5.61	5.90	17.66	0.57%	7.67	4.78	22.78	22.65	22.62	22.54	22.42	22.65	22.56	22.32	22.68	22.52	-	-
2009	4.85	4.85	-	-	4.00	4.05	14.16	0.56%	7.67	6.50	22.57	22.44	22.47	22.41	22.07	22.65	22.58	21.99	22.94	22.32	-	-
2010	4.00	4.00	-	-	4.50	4.50	14.81	-0.54%	6.50	6.50	22.38	22.25	22.38	22.31	21.78	22.33	22.26	21.86	22.38	22.25	-	-
2019	4.50	4.50	-	3.00	4.75	4.66	12.41	-0.48%	6.50	4.67	22.40	22.26	22.46	22.39	21.82	22.47	22.40	21.88	22.39	22.25	-	22.30

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

KATE E. ACKERSON — COMMONWEALTH OF MASSACHUSETTS — CIVIL No. 57459 — REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	KEA			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA		REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

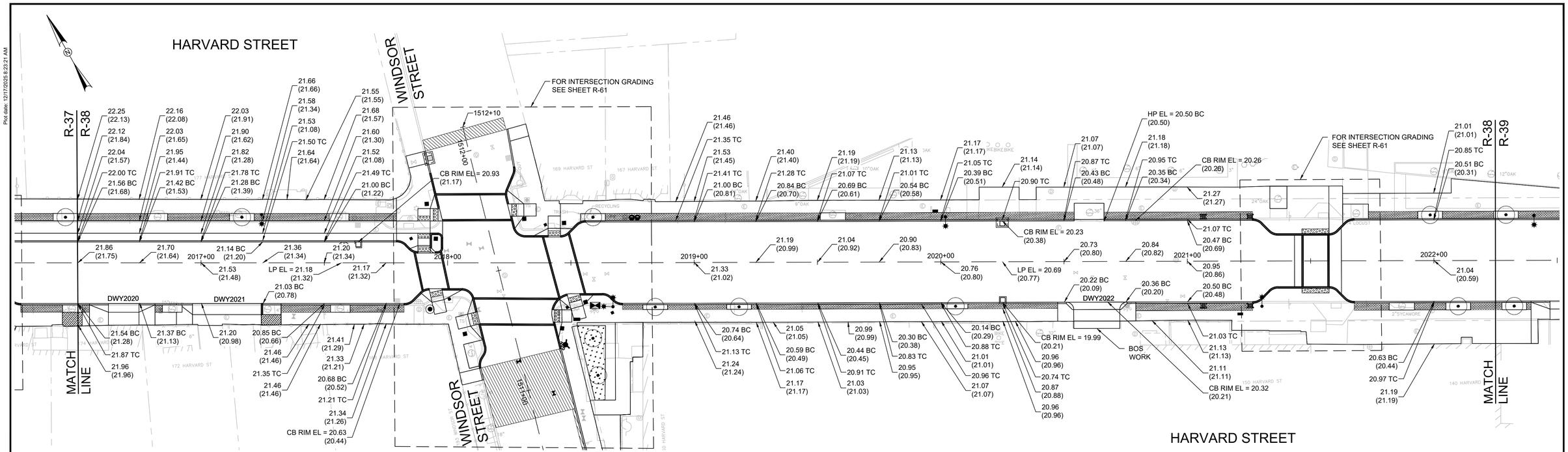
Drawing: ROADWAY - GRADING PLAN HARVARD STREET - STA. 2011+00 TO STA. 2016+50

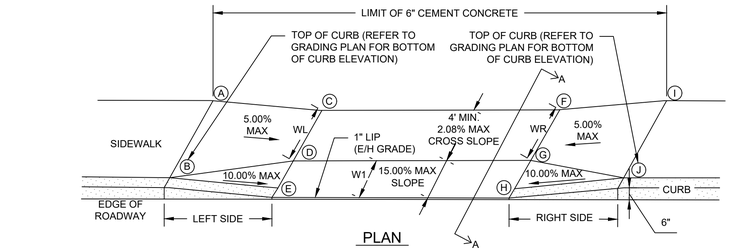
Sheet: R-37

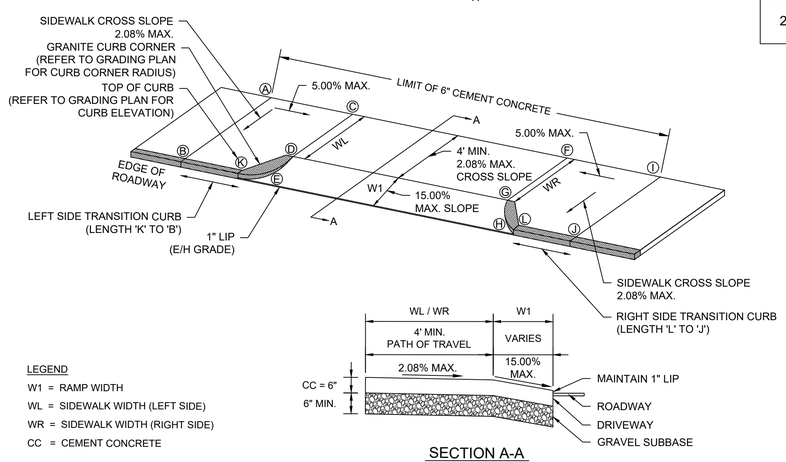
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Plot date: 12/17/2025 8:23:21 AM

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg LAYOUT: R-37 BY: peter garland







SECTION A-A

LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

DRIVEWAYS																							
DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2020	3.50	3.50	-	-	5.18	5.28	12.39	-0.65%	6.50	7.67	21.83	21.70	21.91	21.83	21.45	21.91	21.83	21.53	21.86	21.77	-	-
2021	4.47	4.47	-	-	4.20	4.00	27.93	-0.68%	8.00	6.50	21.57	21.44	21.81	21.74	21.11	21.81	21.74	21.30	21.92	21.77	-	-
2022	3.00	3.00	3.00	3.00	4.64	4.70	18.69	0.59%	3.50	3.50	21.10	20.99	20.88	20.80	20.43	20.86	20.77	20.32	20.90	20.77	20.86	20.74

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Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

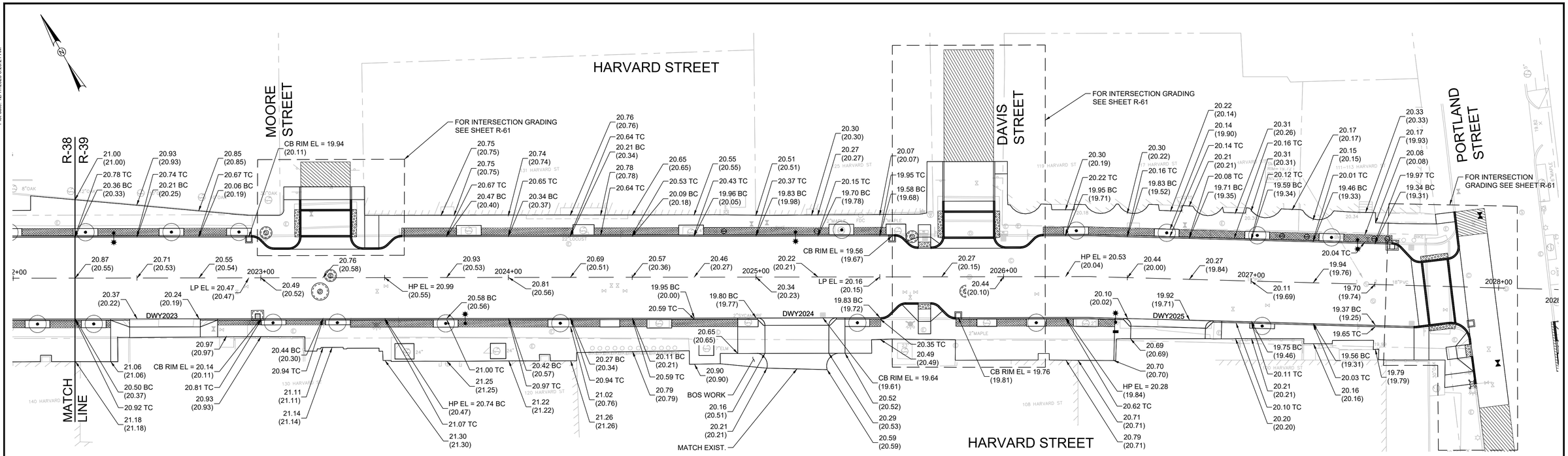
Drawing: ROADWAY - GRADING PLAN HARVARD STREET - STA. 2016+50 TO STA. 2022+25

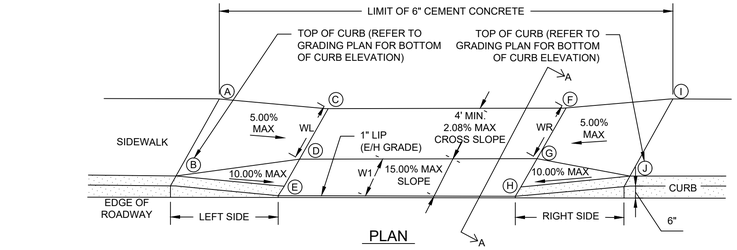
Sheet: R-38

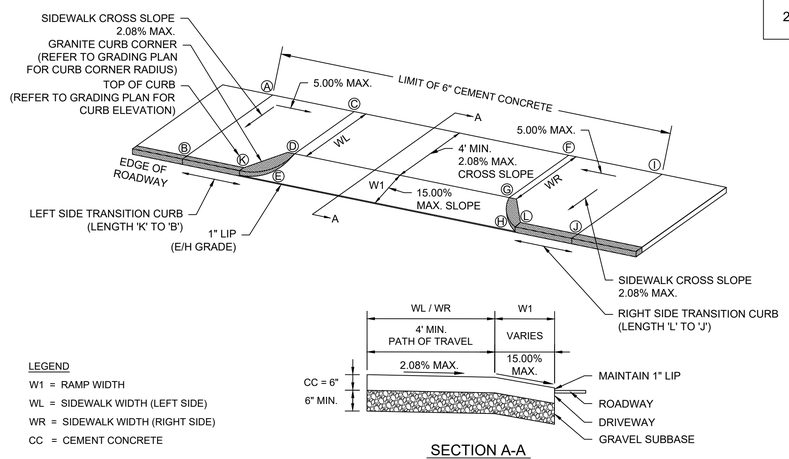
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DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2023	3.25	3.25	-	-	4.09	4.22	28.53	-0.53%	7.00	7.67	20.92	20.81	20.88	20.81	20.32	20.92	20.85	20.47	21.06	20.95	-	-
2024	3.00	3.00	3.00	3.00	11.29	11.21	25.84	-0.46%	3.50	8.00	20.52	20.27	20.29	20.09	19.73	20.16	19.99	19.85	20.65	20.44	20.15	20.08
2025	3.00	3.00	3.00	3.00	4.24	5.11	30.15	-0.70%	3.50	3.50	20.29	20.18	20.39	20.33	19.96	20.69	20.60	20.17	20.70	20.58	20.24	20.56

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COMMONWEALTH OF MASSACHUSETTS — KATE E. ACKERSON — CIVIL No. 57459 — REGISTERED PROFESSIONAL ENGINEER

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Drawn by	MCS
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No.	Description	Date
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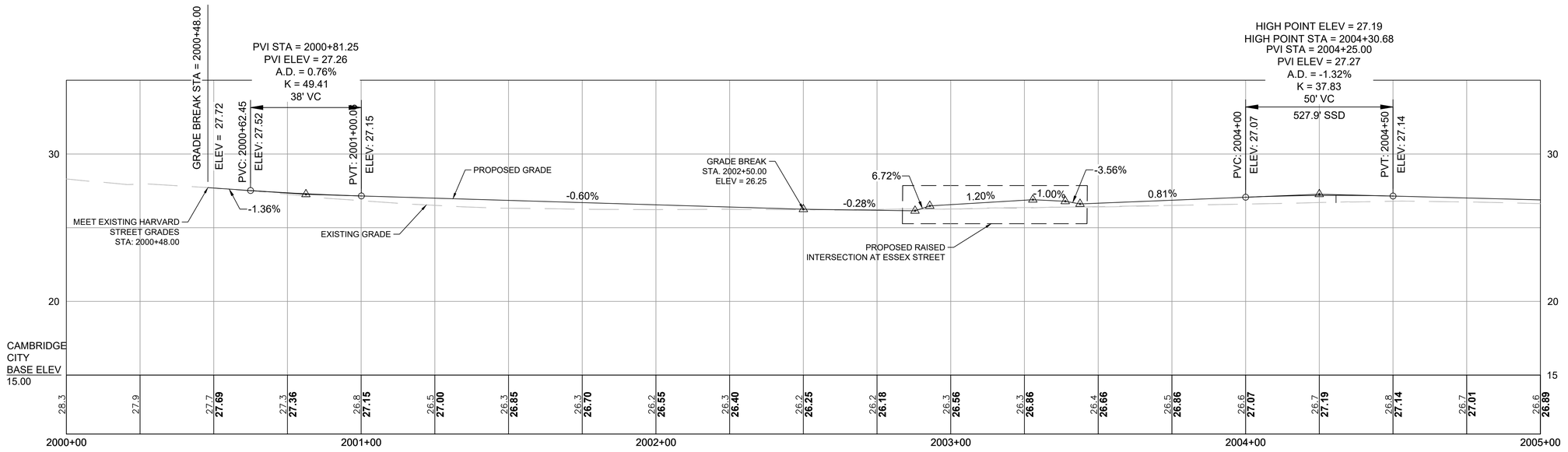
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

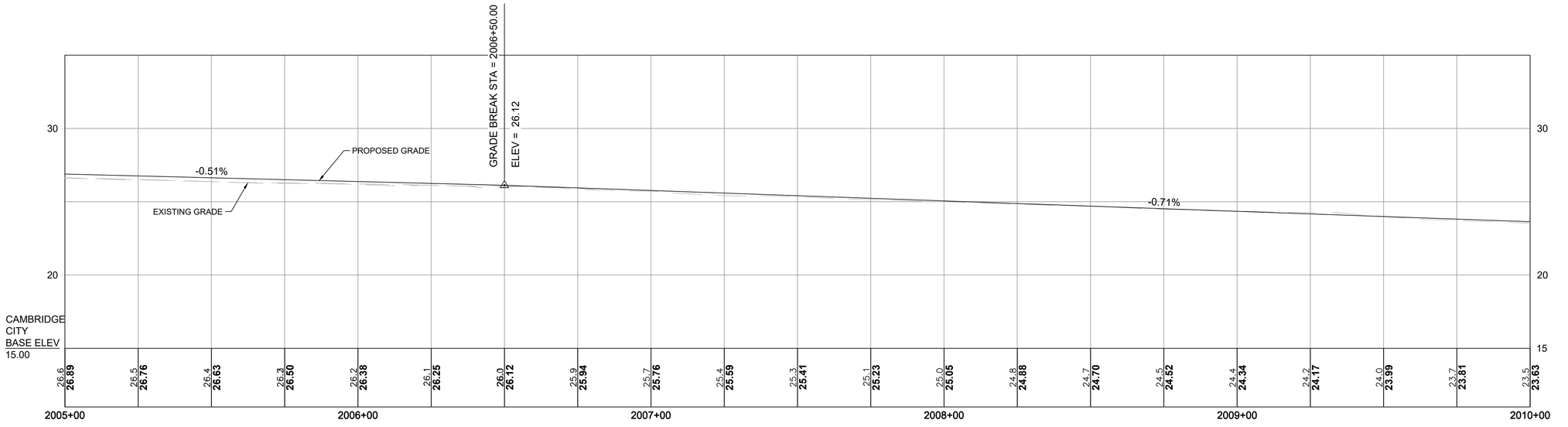
Drawing: ROADWAY - GRADING PLAN HARVARD STREET - STA. 2022+25 TO STA. 2028+00

Sheet: R-39

File No.: 30724

Plot date: 12/17/2025 8:23:21 AM BY: peter garland LAYOUT: R-39
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - PROFILE HARVARD STREET STA. 2000+00 TO STA. 2010+00

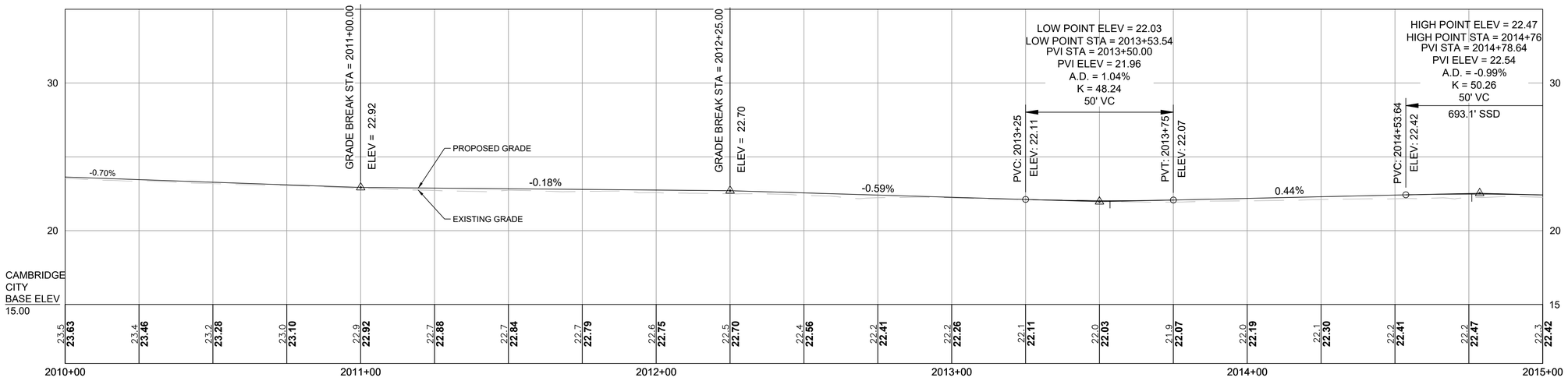
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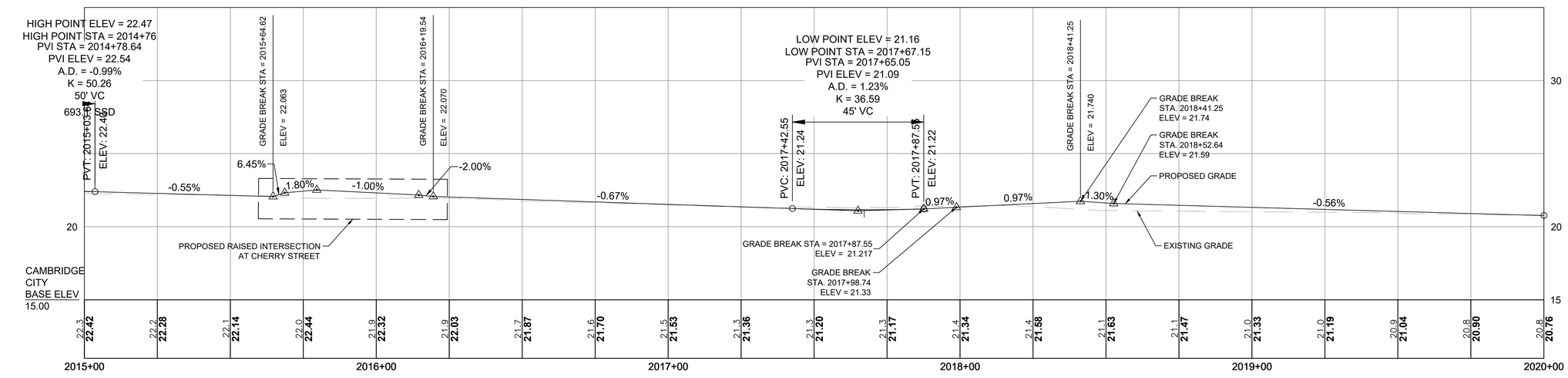
File No.: 30724

Plot date: 12/17/2025 8:23:21 AM

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg LAYOUT: R-40 BY: peter garland

Plot date: 12/17/2025 8:23:21 AM





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	KEA			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

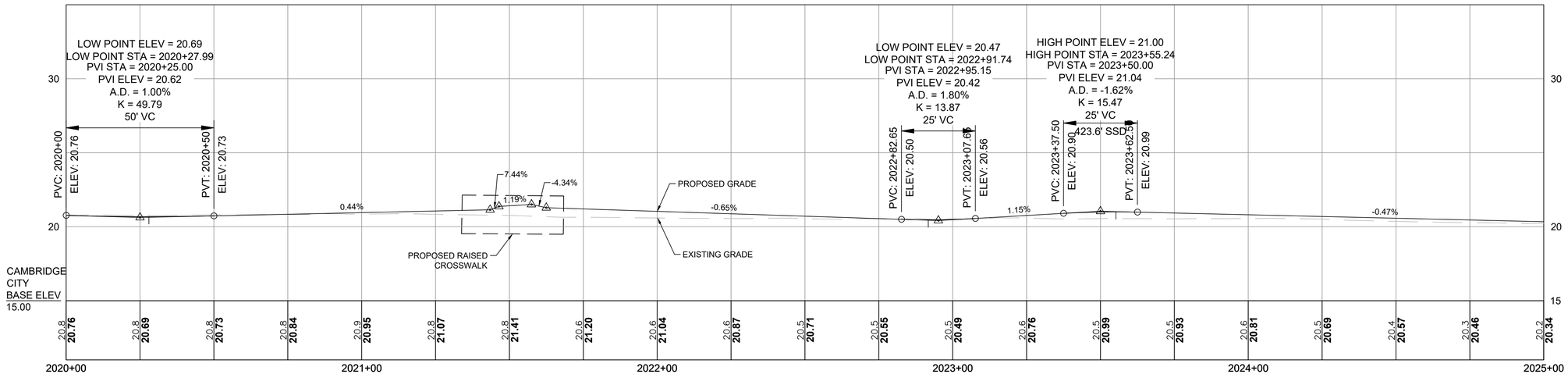
Drawing: ROADWAY - PROFILE HARVARD STREET STA. 2010+00 TO STA. 2020+00

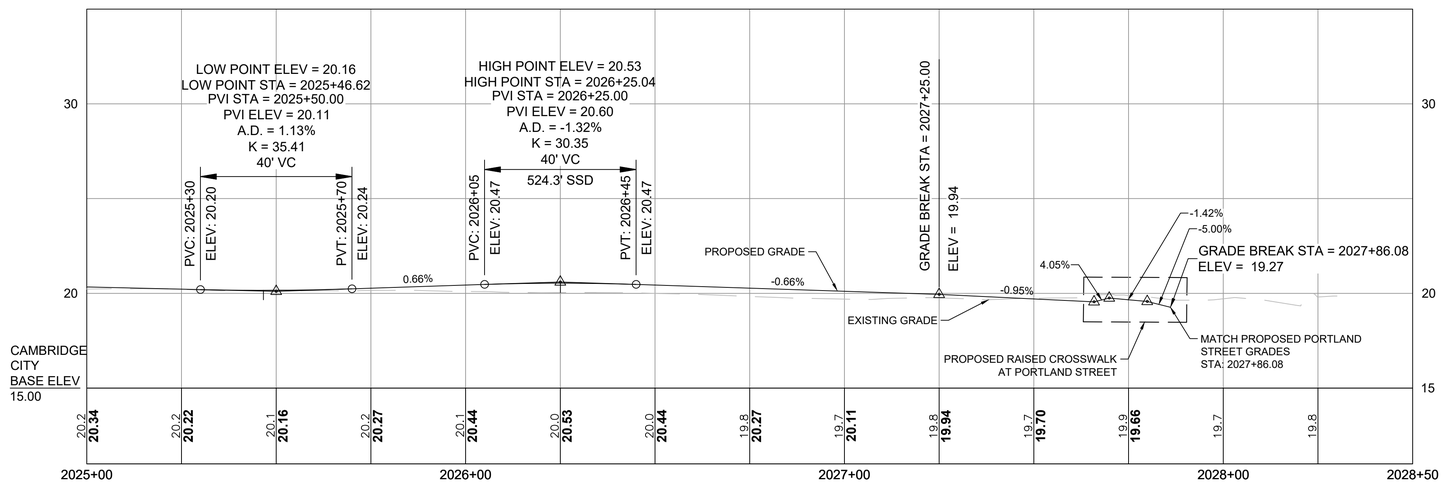
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File No.: 30724

CAD FILE: L:\City Of Cambridge MA\2020\1034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg LAYOUT: R-41 BY: peter.garland

Plot date: 12/17/2025 8:23:21 AM





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

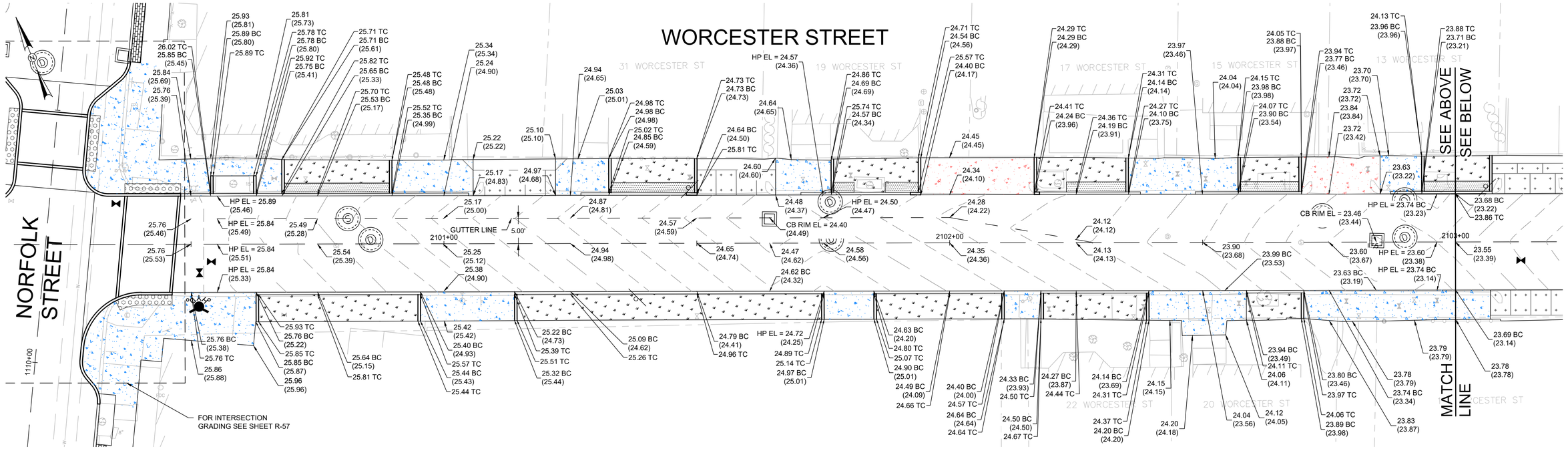
Drawing: ROADWAY - PROFILE
HARVARD STREET STA. 2020+00 TO STA. 2028+00

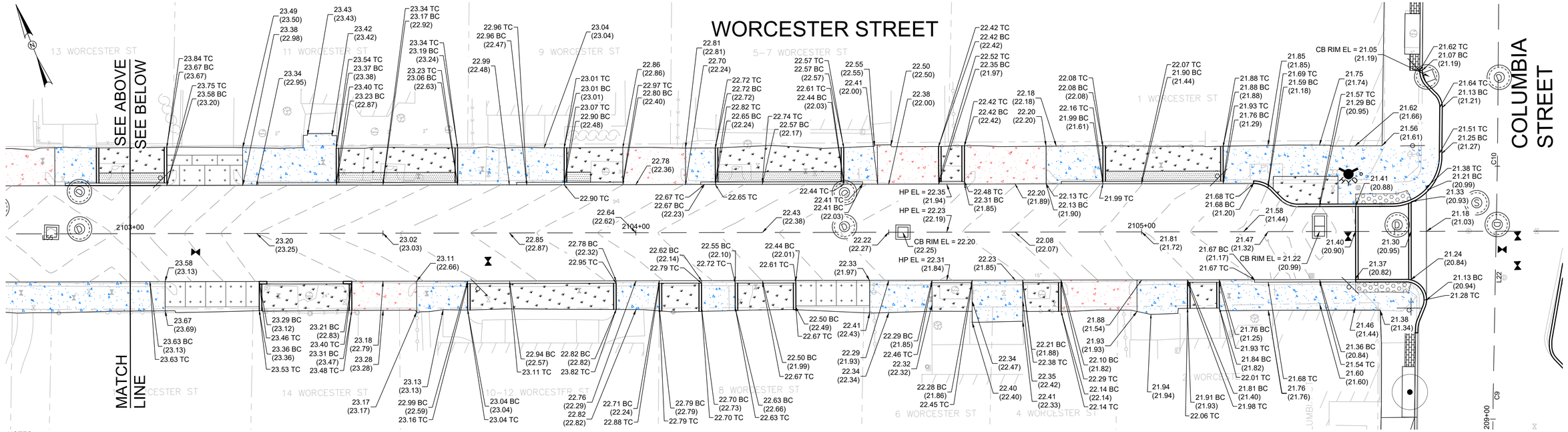
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File No.: 30724

CAD FILE: L:\City Of Cambridge MA\2020\1034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Harvard Street.dwg LAYOUT: R-42 BY: peter.garland

Plot date: 12/10/2025 10:18:06 PM





NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 10'

SCALE: 1" = 10'
0 10 20 30
SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	BMS
Drawn by	KEA
Checked by	KEA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

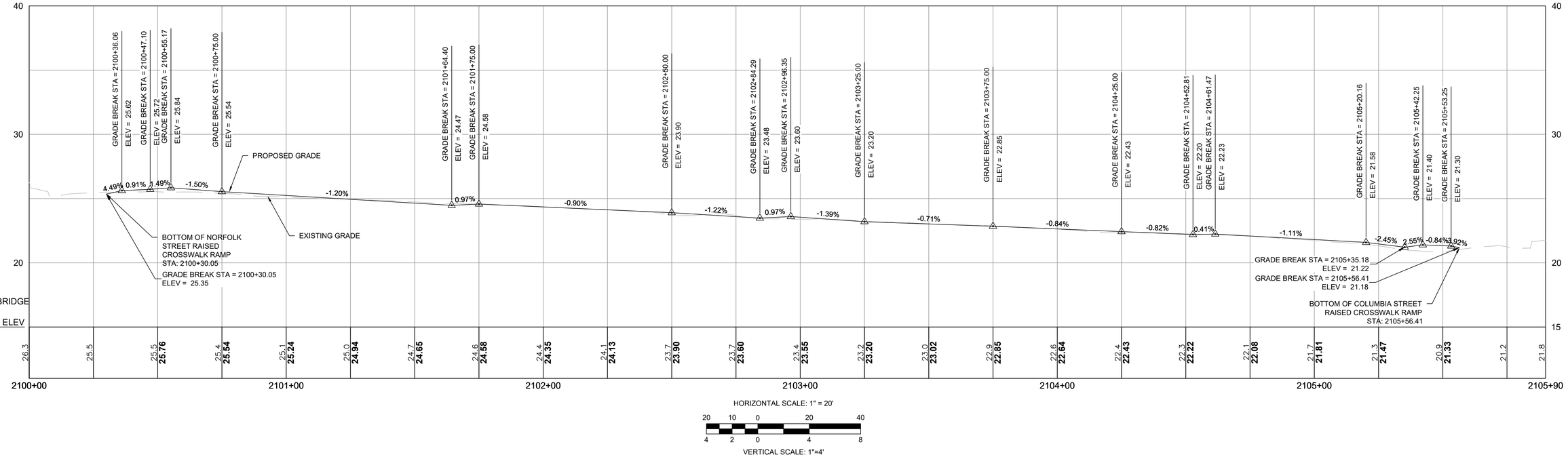
Drawing: ROADWAY - GRADING PLAN
WORCESTER STREET - STA. 2100+00 TO STA. 2105+90

Sheet: R-43

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Worcester Street.dwg LAYOUT: R-43 BY: peter garland

Plot date: 12/16/2025 10:18:06 PM
CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Worcester Street.dwg LAYOUT: R-44 BY: peter garland



HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	BMS
Drawn by	KEA
Checked by	KEA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

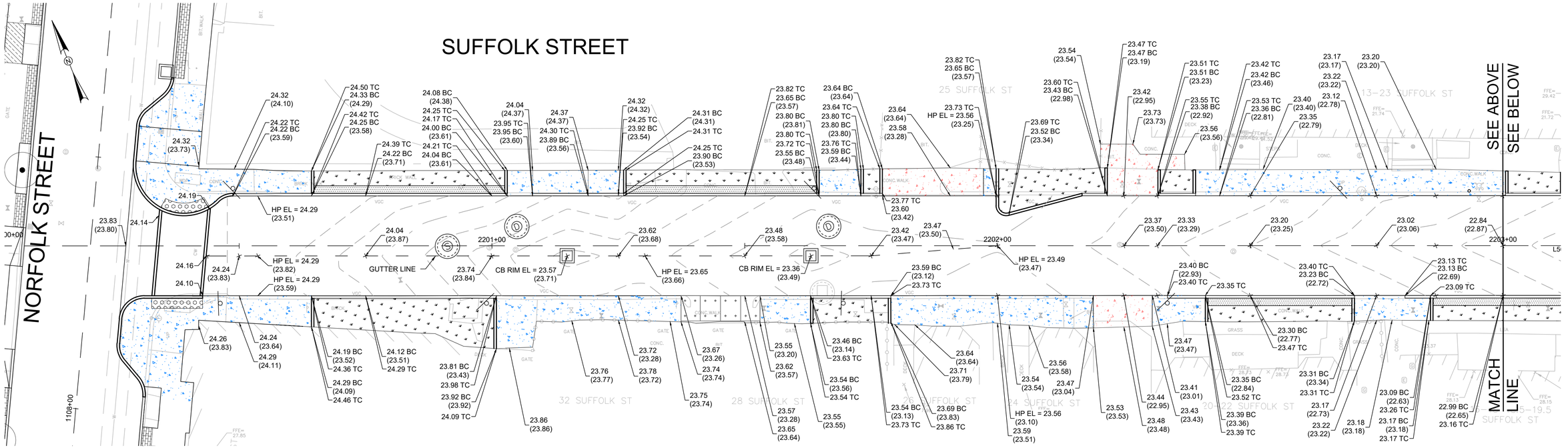
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

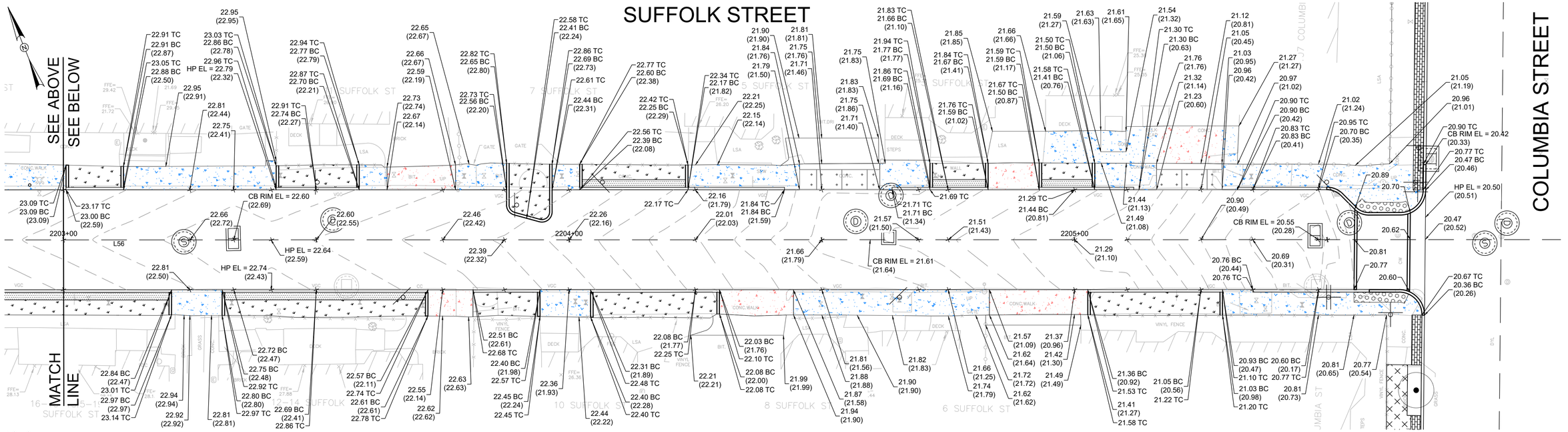
Drawing: ROADWAY - PROFILE
WORCESTER STREET STA. 2100+00 TO STA. 2105+90

Sheet: R-44

File No.: 30724

Plot date: 12/17/2025 9:10:51 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Suffolk Street.dwg
LAYOUT: R-45 BY: peter garland





NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN

SCALE: 1" = 10'

0 10 20 30

SCALE: 1" = 10' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	BMS
Drawn by	KEA
Checked by	KEA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

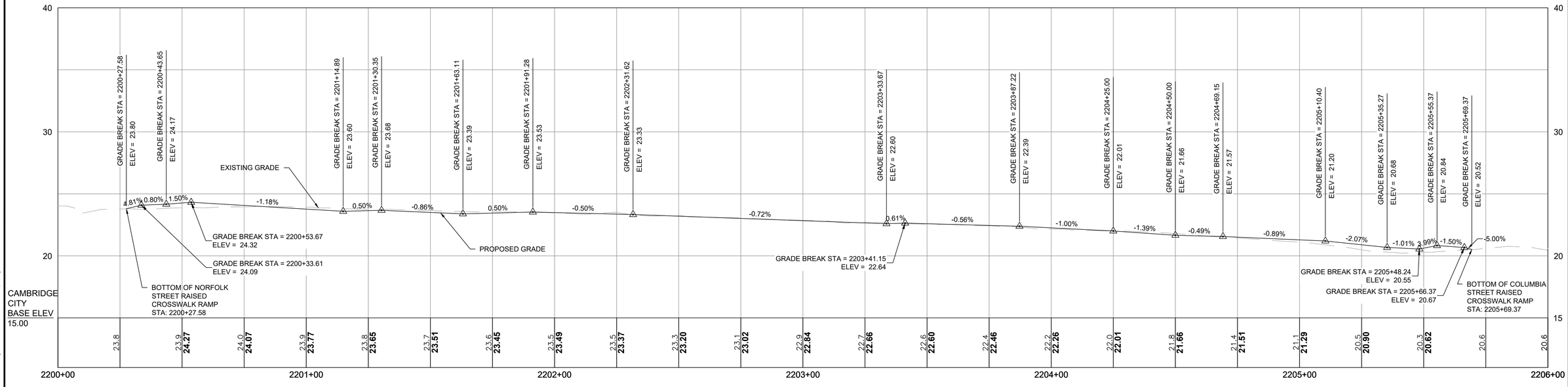
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - GRADING PLAN
SUFFOLK STREET - STA. 2200+00 TO STA. 2206+05

Sheet: R-45

File No.: 30724

Plot date: 12/17/2025 9:10:51 AM
BY: peter garland
LAYOUT: R-46
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Suffolk Street.dwg



HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	BMS
Drawn by	KEA
Checked by	KEA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

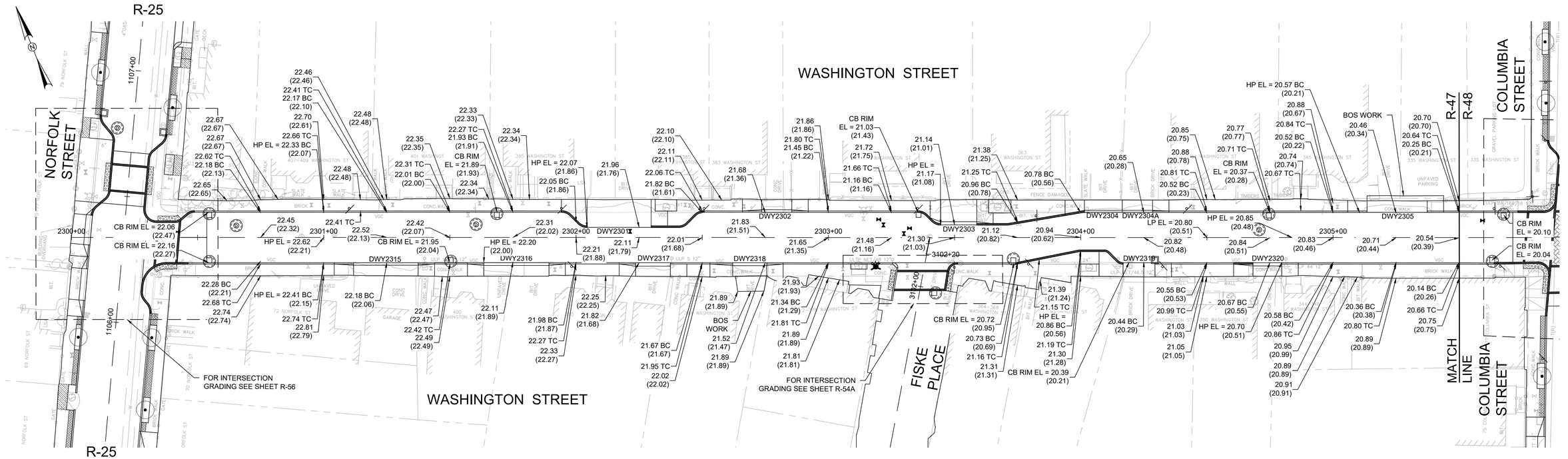
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

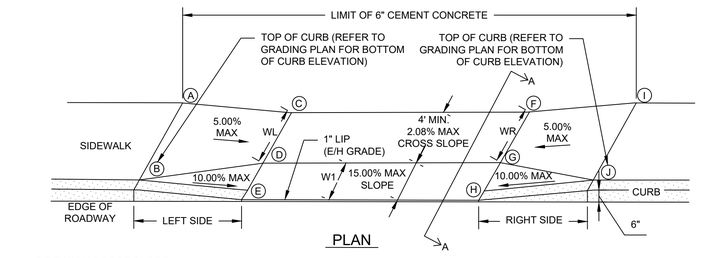
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

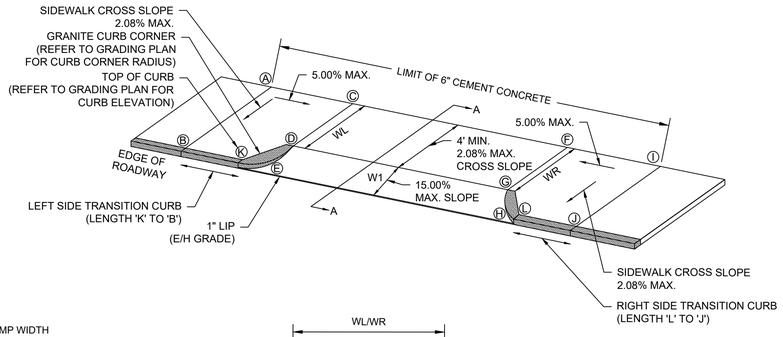
Drawing: ROADWAY - PROFILE
SUFFOLK STREET STA. 2200+00 TO STA. 2206+05

Sheet: R-46

File No.: 30724

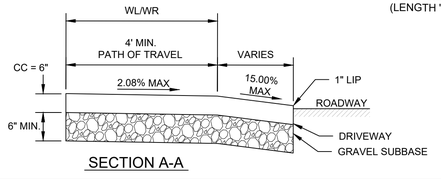






LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE



DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE (LEFT TO RIGHT)	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2301	-	-	-	-	11.10	11.11	25.41	-0.55%	10.15	6.50	22.40	22.23	22.27	-	22.15	22.20	-	22.01	22.36	22.27	-	-
2302	1.00	1.00	-	-	4.02	4.06	11.88	-0.93%	7.67	6.50	22.03	21.98	21.88	21.82	21.77	21.82	21.76	21.66	21.90	21.82	-	-
2303	1.25	1.25	-	-	8.70	8.78	14.31	-0.63%	4.17	6.50	21.55	21.44	21.45	21.32	21.25	21.40	21.26	21.16	21.43	21.37	-	-
2304	0.75	0.75	-	-	4.08	4.10	14.99	-0.60%	7.67	-	21.18	21.13	20.99	20.93	20.86	20.90	20.84	20.77	-	-	-	-
2304A	0.75	0.75	-	-	4.10	4.08	12.00	-0.50%	-	6.50	-	-	20.90	20.84	20.77	20.80	20.75	20.71	20.92	20.87	-	-
2305	-	-	-	-	4.49	4.57	23.83	-0.80%	7.67	6.50	20.83	20.79	20.69	-	20.63	20.53	-	20.44	20.65	20.60	-	-
2315	1.00	1.00	-	-	4.24	4.02	25.60	0.94%	6.50	7.67	22.44	22.36	22.28	22.21	22.14	22.55	22.49	22.38	22.84	22.76	-	-
2316	1.10	1.10	-	-	4.01	4.27	25.81	0.54%	6.50	6.50	22.34	22.29	22.26	22.20	22.11	22.50	22.42	22.25	22.51	22.43	-	-
2317	1.35	1.35	-	-	4.13	4.01	13.81	0.58%	-	6.50	22.01	21.96	22.09	22.03	21.84	22.13	22.07	21.92	22.29	22.23	-	-
2318	1.15	1.15	-	-	4.08	4.31	13.51	0.59%	6.50	7.67	21.91	21.83	21.82	21.76	21.60	21.90	21.83	21.68	22.22	22.14	-	-
2319	-	-	-	-	5.62	5.54	12.64	0.50%	6.50	9.50	20.87	20.81	20.61	-	20.53	20.57	-	20.47	21.02	20.94	-	-
2320	1.25	1.25	-	-	4.01	4.09	11.42	-0.53%	-	7.67	21.03	20.98	20.99	20.93	20.78	20.99	20.91	20.72	20.97	20.92	-	-

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

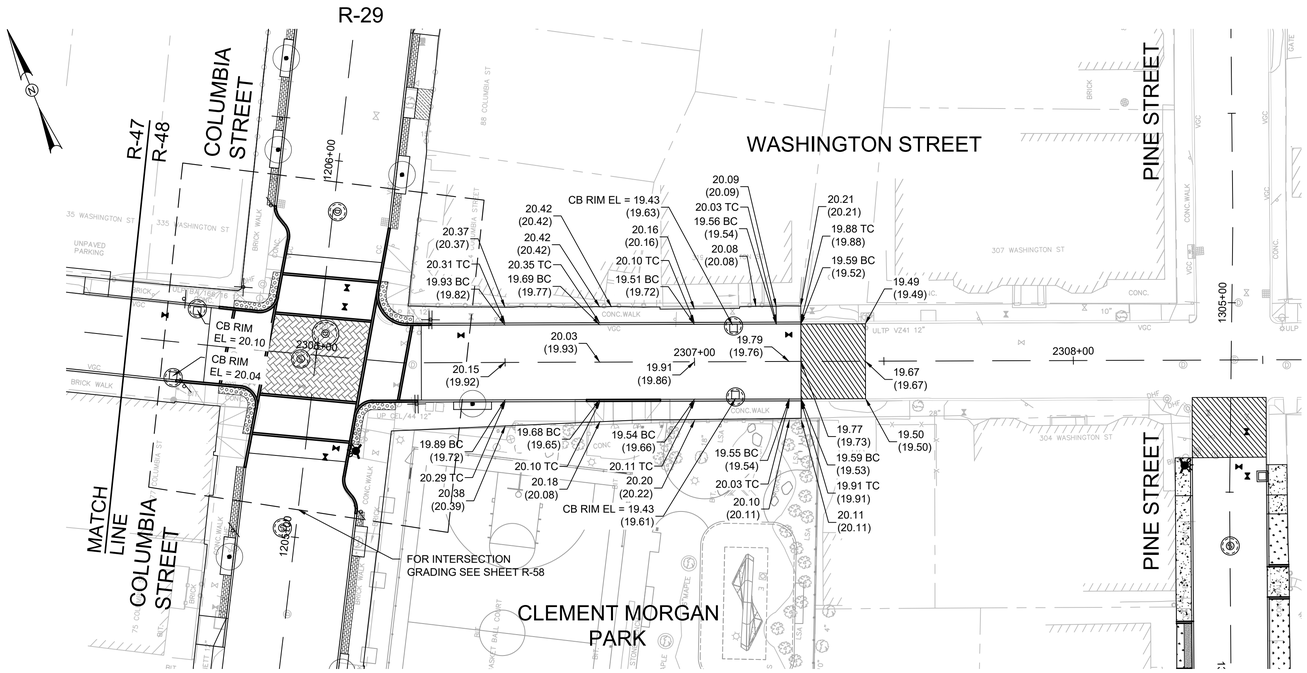
Drawing: ROADWAY - GRADING PLAN
WASHINGTON STREET - STA. 2300+00 TO STA. 2305+50

Sheet: R-47

File No.: 30724

Plot date - 12/17/2025 9:37:54 AM

CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Washington Street - Package 1.dwg LAYOUT: R-47 BY: peter garland



NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
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Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

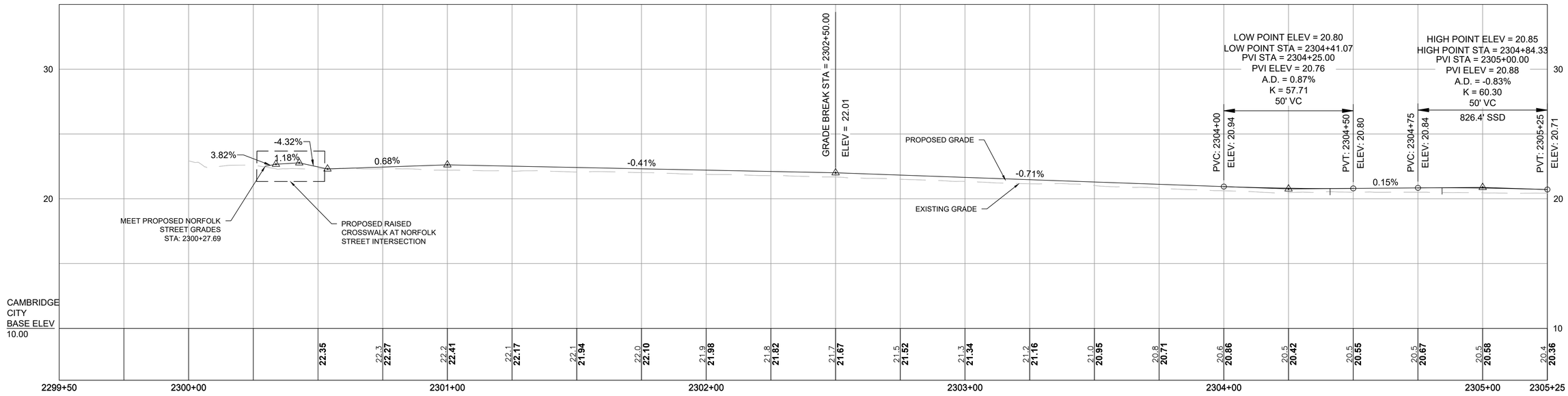
Drawing: ROADWAY - GRADING PLAN
WASHINGTON STREET - STA. 2305+50 TO STA. 2307+45

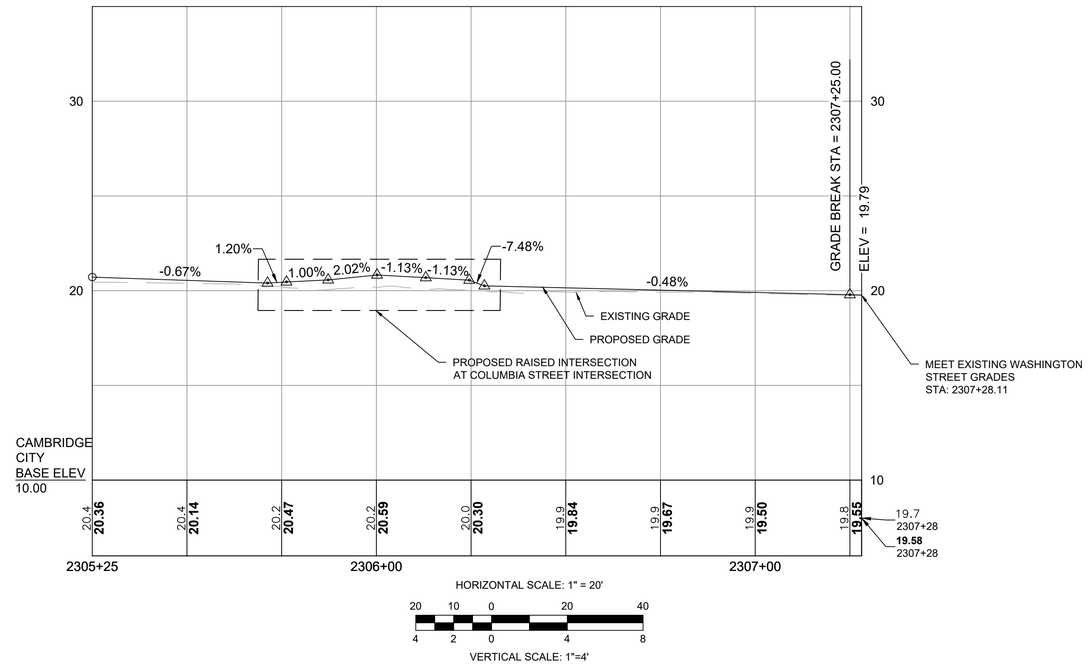
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File No.: 30724

Plot date: 12/17/2025 9:37:54 AM
CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Washington Street - Package 1.dwg LAYOUT: R-48 BY: peter garland

Plot date: 12/17/2025 9:37:54 AM





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KATE E. ACKERSON
COMMONWEALTH OF MASSACHUSETTS
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	KEA			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

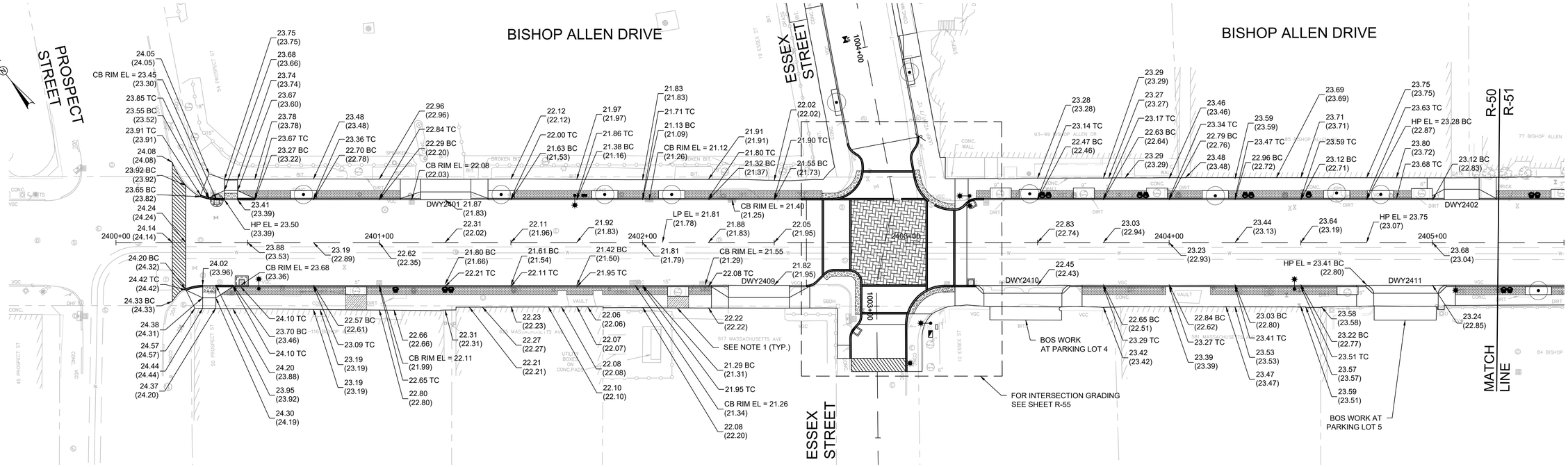
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

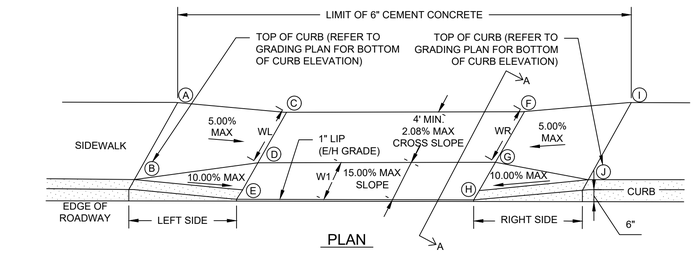
Drawing: ROADWAY - PROFILE
WASHINGTON STREET STA. 2300+00 TO STA. 2311+25

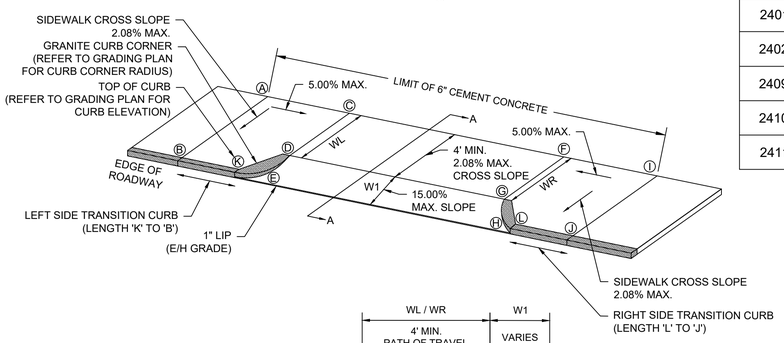
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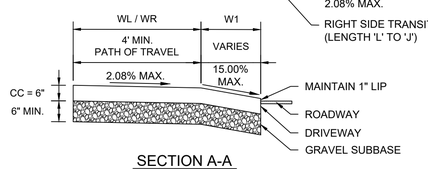
File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Washington Street - Package 1.dwg LAYOUT: R-49 BY: peter garland









LEGEND

W1 = RAMP WIDTH
WL = SIDEWALK WIDTH (LEFT SIDE)
WR = SIDEWALK WIDTH (RIGHT SIDE)
CC = CEMENT CONCRETE

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

DRIVEWAYS																							
DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE	TRANSITION LENGTH		ELEVATIONS												
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2401	3.00	3.00	-	-	4.83	4.81	19.14	-1.36%	7.67	6.50	22.71	22.59	22.43	22.35	22.11	22.19	22.12	21.85	22.19	22.07	-	-
2402	4.00	4.00	-	-	4.33	4.41	13.23	-0.68%	6.50	6.50	23.66	23.54	23.62	23.55	23.16	23.67	23.60	23.07	23.64	23.51	-	-
2409	4.62	4.62	-	-	4.05	4.00	23.08	-1.08%	7.75	6.50	22.53	22.40	22.54	22.48	21.97	22.33	22.27	21.72	22.23	22.10	-	-
2410	3.00	3.00	3.00	3.00	5.22	4.94	29.60	-0.78%	4.67	8.00	23.39	23.25	23.04	22.96	22.60	22.77	22.70	22.37	22.74	22.62	23.05	22.64
2411	3.00	3.00	3.00	3.00	5.07	4.83	24.52	0.65%	3.50	3.50	23.73	23.61	23.54	23.46	23.31	23.70	23.62	23.47	23.83	23.71	23.51	23.64

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

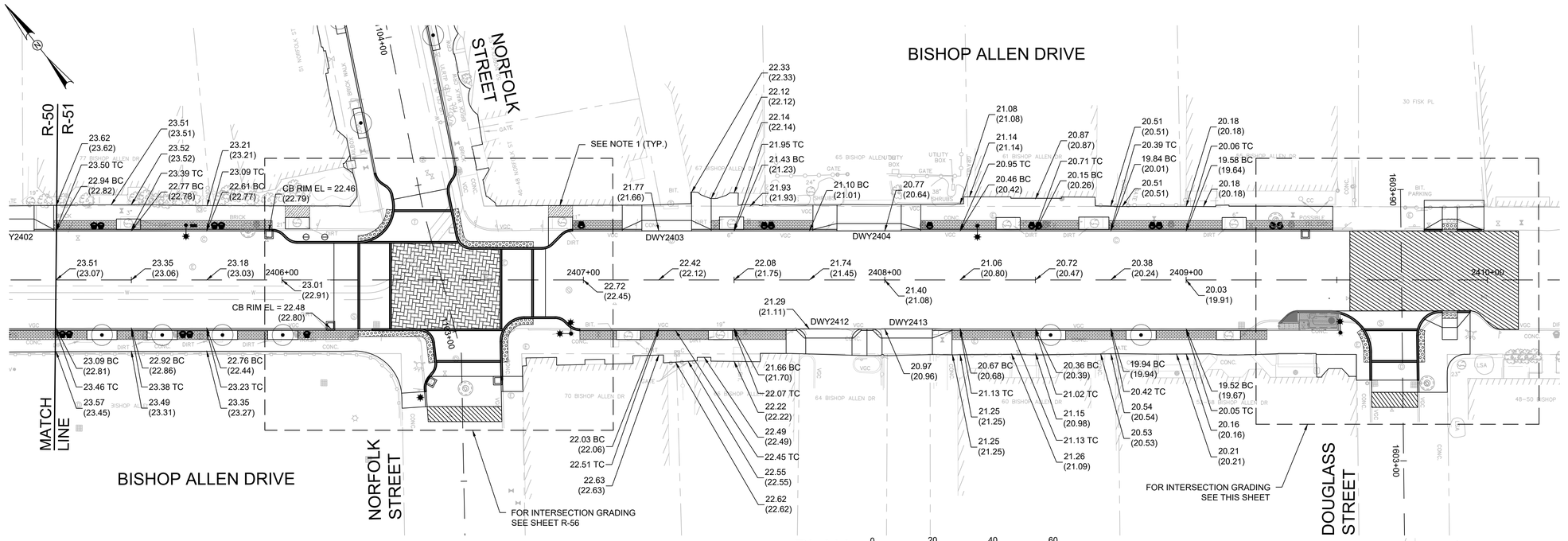
Drawing: ROADWAY - GRADING PLAN
BISHOP ALLEN DRIVE - STA. 2400+00 TO STA. 2405+25

Sheet: R-50

File No.: 30724

Plot date: 12/16/2025 9:16:41 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Bishop Allen Drive.dwg LAYOUT: R-50 BY: peter garland

Plot date - 12/16/2025 9:16:41 PM



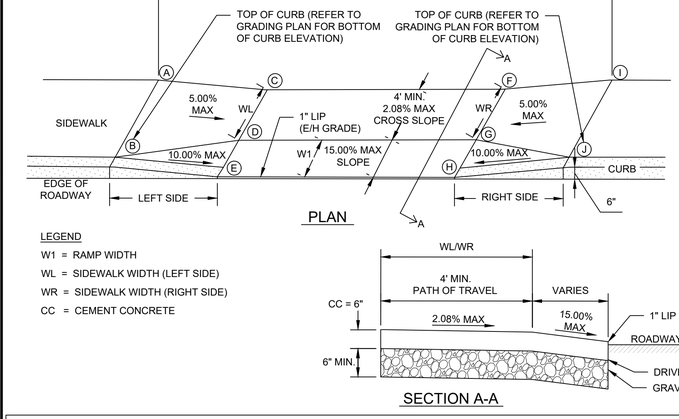
PLAN
SCALE: 1" = 20'

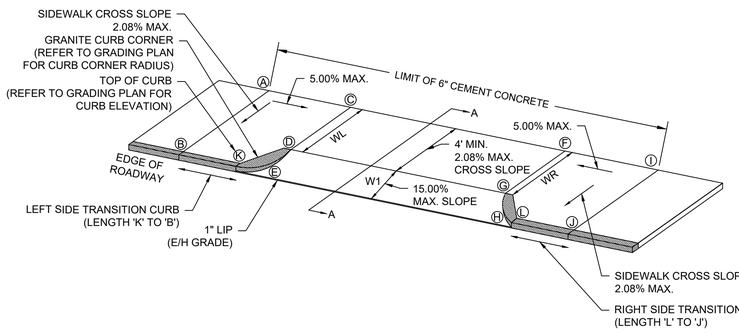
0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

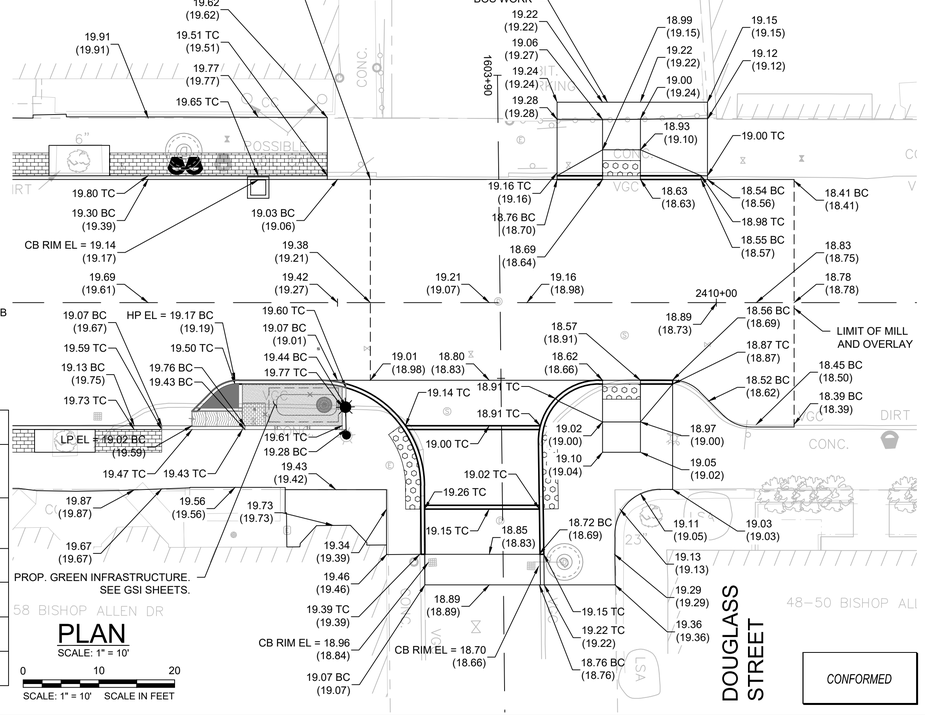
NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.







PLAN
SCALE: 1" = 10'

0 10 20
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

DRIVEWAYS

DW#	DEPTH OF RAMP (W1)		CURB CORNER SIZE (FT)		WIDTH OF SIDEWALK		WIDTH OF DRIVEWAY	ROADWAY GUTTER SLOPE	TRANSITION LENGTH		ELEVATIONS											
	LEFT SIDE	RIGHT SIDE	LEFT SIDE	RIGHT SIDE	LEFT SIDE (WL)	RIGHT SIDE (WR)			LEFT SIDE	RIGHT SIDE	A	B	C	D	E	F	G	H	I	J	K	L
2403	3.50	3.50	-	-	5.11	9.41	16.51	-1.33%	6.50	6.50	22.47	22.34	22.40	22.33	21.92	22.33	22.18	21.70	22.12	21.93	-	-
2404	2.50	2.50	-	-	6.14	6.23	21.30	-1.31%	8.00	6.50	21.73	21.60	21.46	21.36	21.06	21.13	21.03	20.78	21.25	21.12	-	-
2412	3.00	3.00	3.00	3.00	5.71	5.28	15.35	1.30%	1.98	3.50	21.68	21.55	21.64	21.55	21.19	21.88	21.80	21.39	21.96	21.84	21.53	21.79
2413	3.00	3.00	-	3.00	5.47	5.48	16.72	1.26%	6.50	1.98	21.25	21.12	21.27	21.19	20.86	21.60	21.50	21.07	21.68	21.55	-	21.51

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

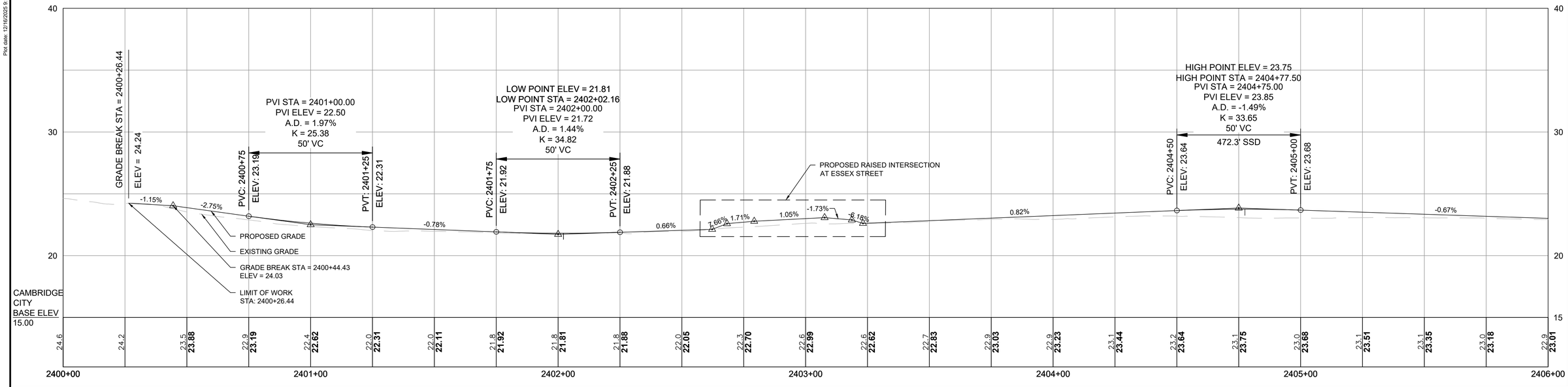
Drawing: ROADWAY - GRADING PLAN
BISHOP ALLEN DRIVE - STA. 2405+25 TO STA. 2410+25

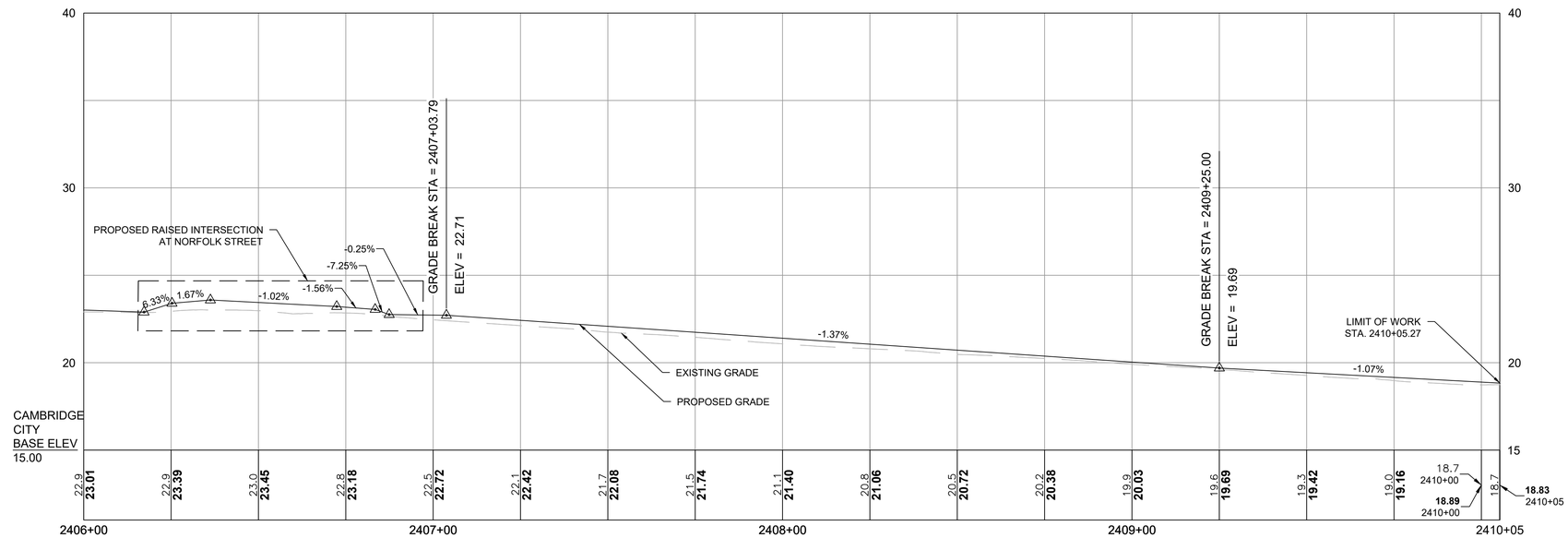
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File No.: 30724

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Plot date - 12/16/2025 9:16:41 PM





HORIZONTAL SCALE: 1" = 20'

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE: 1"=4'

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

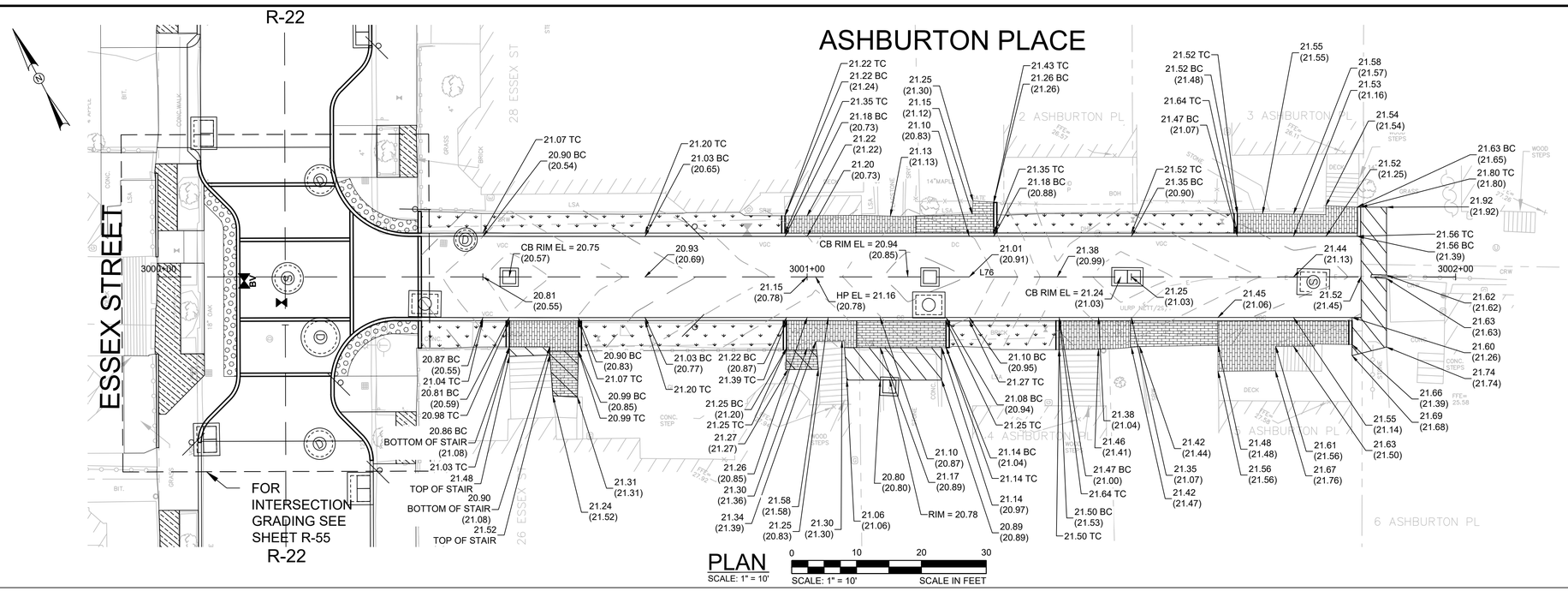
Drawing: ROADWAY - PROFILE
BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2410+25

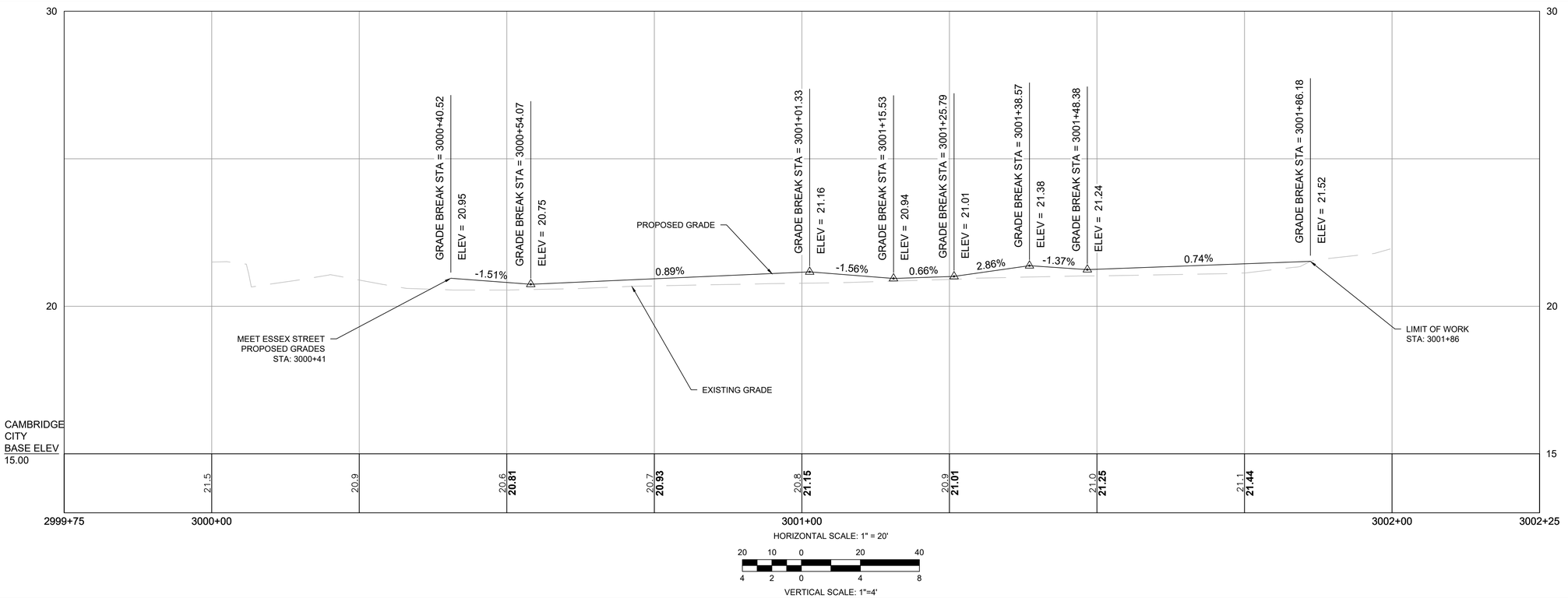
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Plot date: 12/16/2025 10:20:31 PM





CONFORMED

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Ashburton Pl.dwg LAYOUT: R-53 BY: peter garland

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Stantec

COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	BMS
Drawn by	KEA
Checked by	KEA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

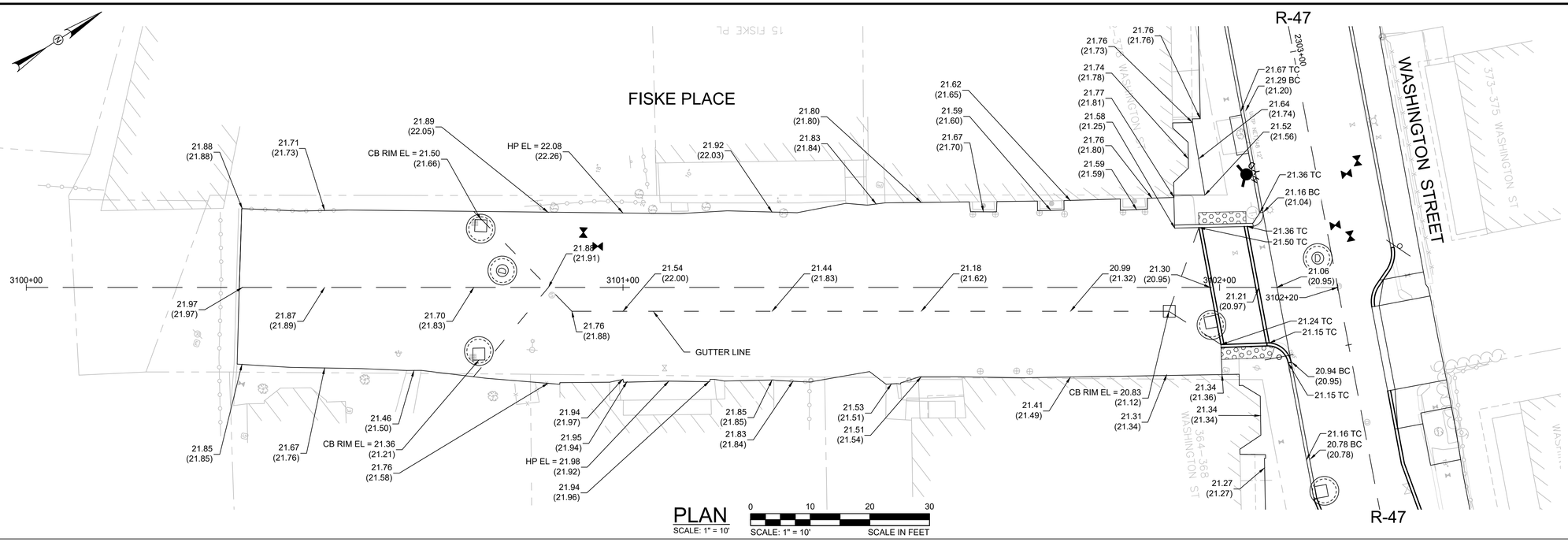
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - GRADING PLAN & PROFILE ASHBURTON PLACE - STA. 3000+00 TO STA. 3001+92

Sheet: R-53

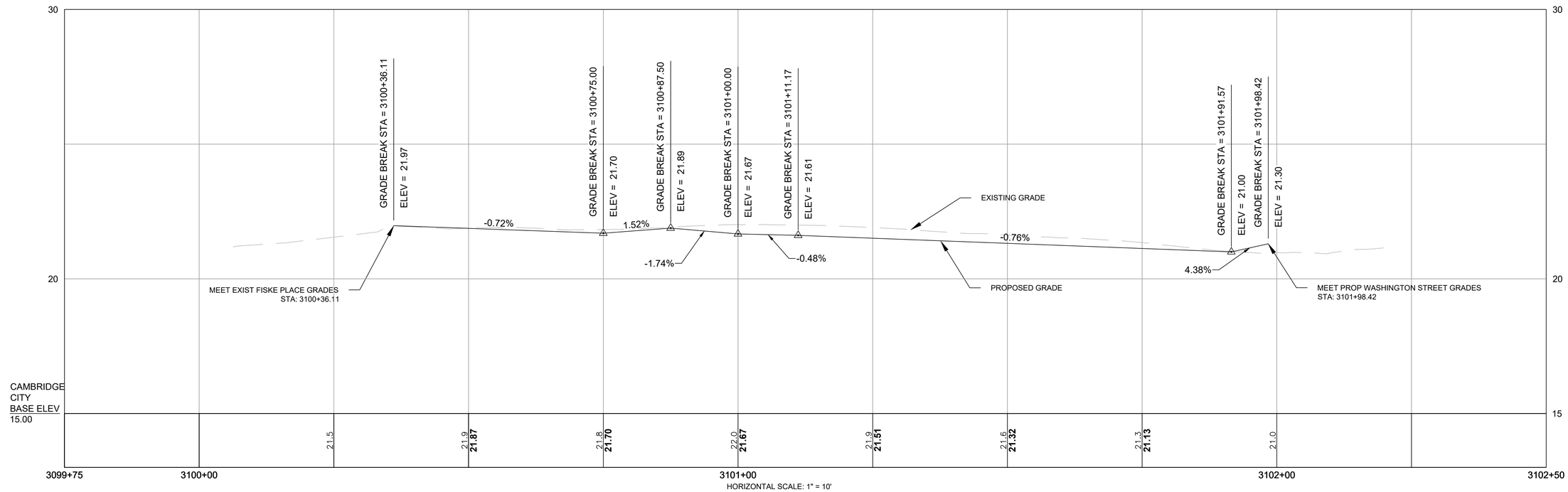
File No.: 30724

Plot date - 12/16/2025 9:53:10 PM



PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET



HORIZONTAL SCALE: 1" = 10'

10 5 0 10 20
2 1 0 2 4
VERTICAL SCALE: 1" = 2'

CONFORMED

KLEINFELDER
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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

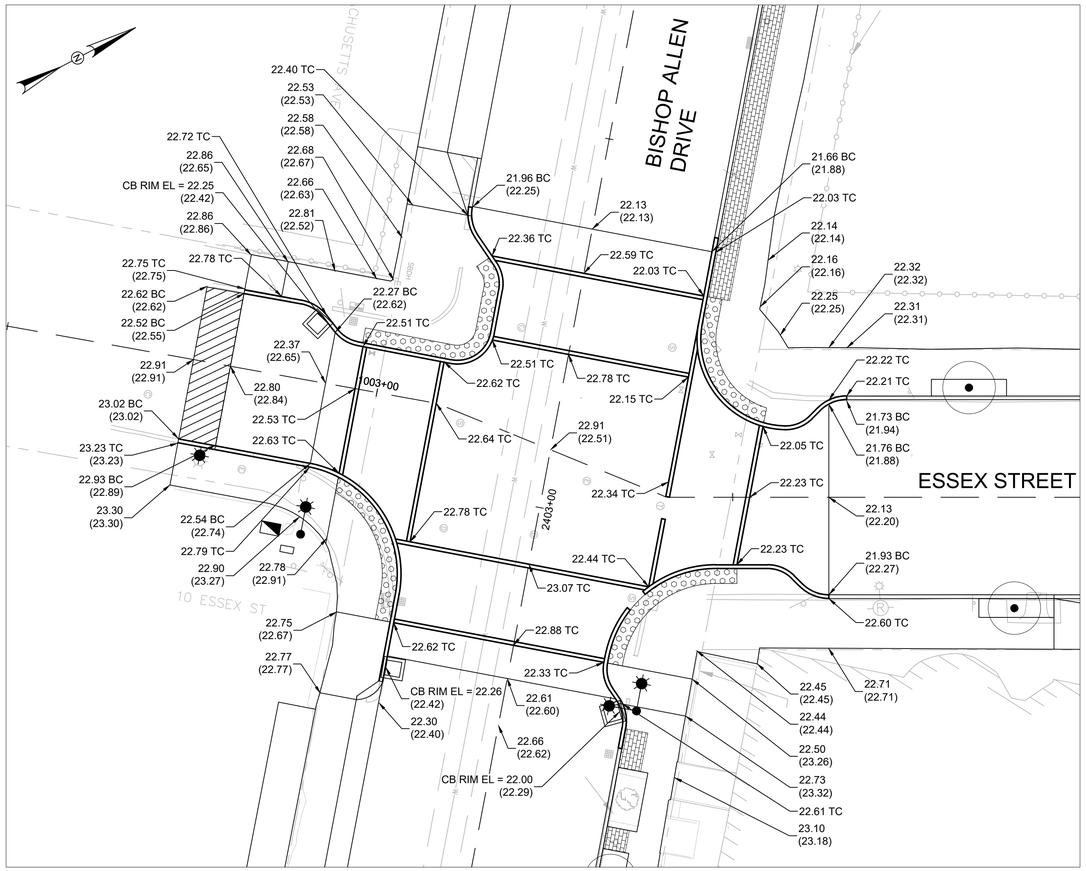
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - GRADING PLAN & PROFILE
FISKE PLACE - STA. 3100+00 TO STA. 3102+20

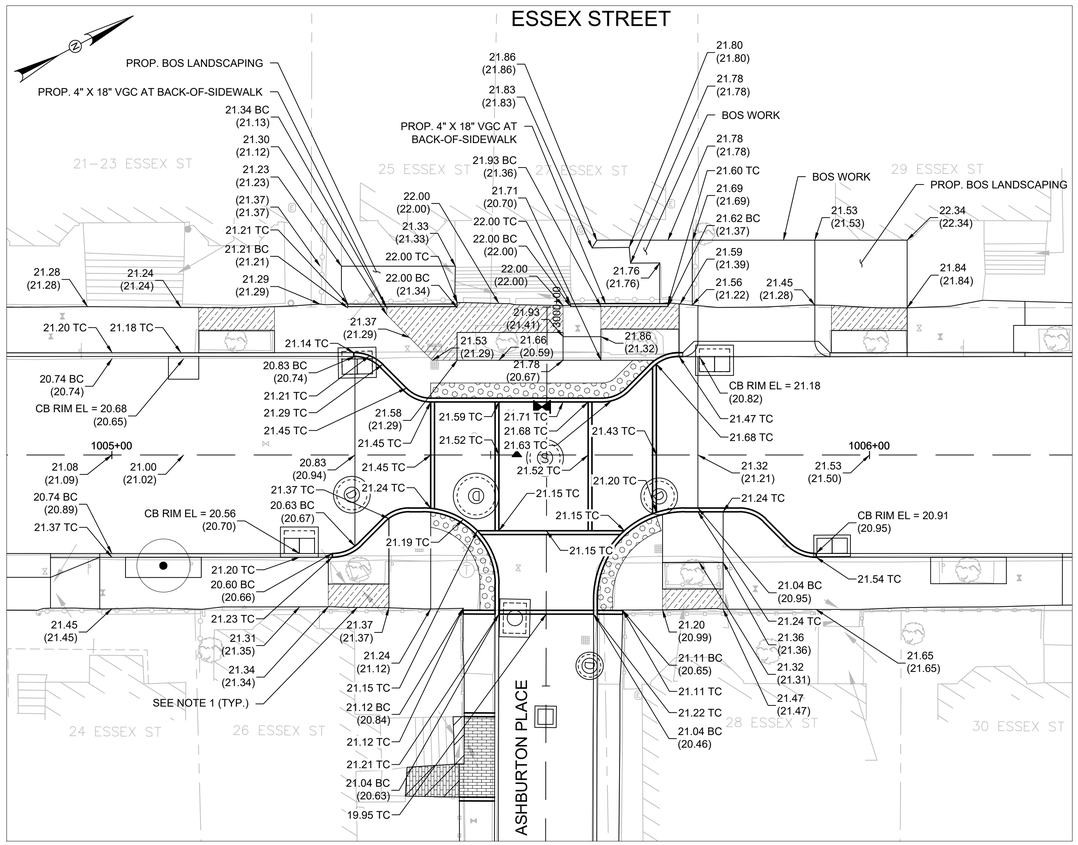
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INTERSECTION GRADING PLAN
ESSEX STREET AT BISHOP ALLEN DRIVE



INTERSECTION GRADING PLAN
ESSEX STREET AT ASHBURTON PLACE

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

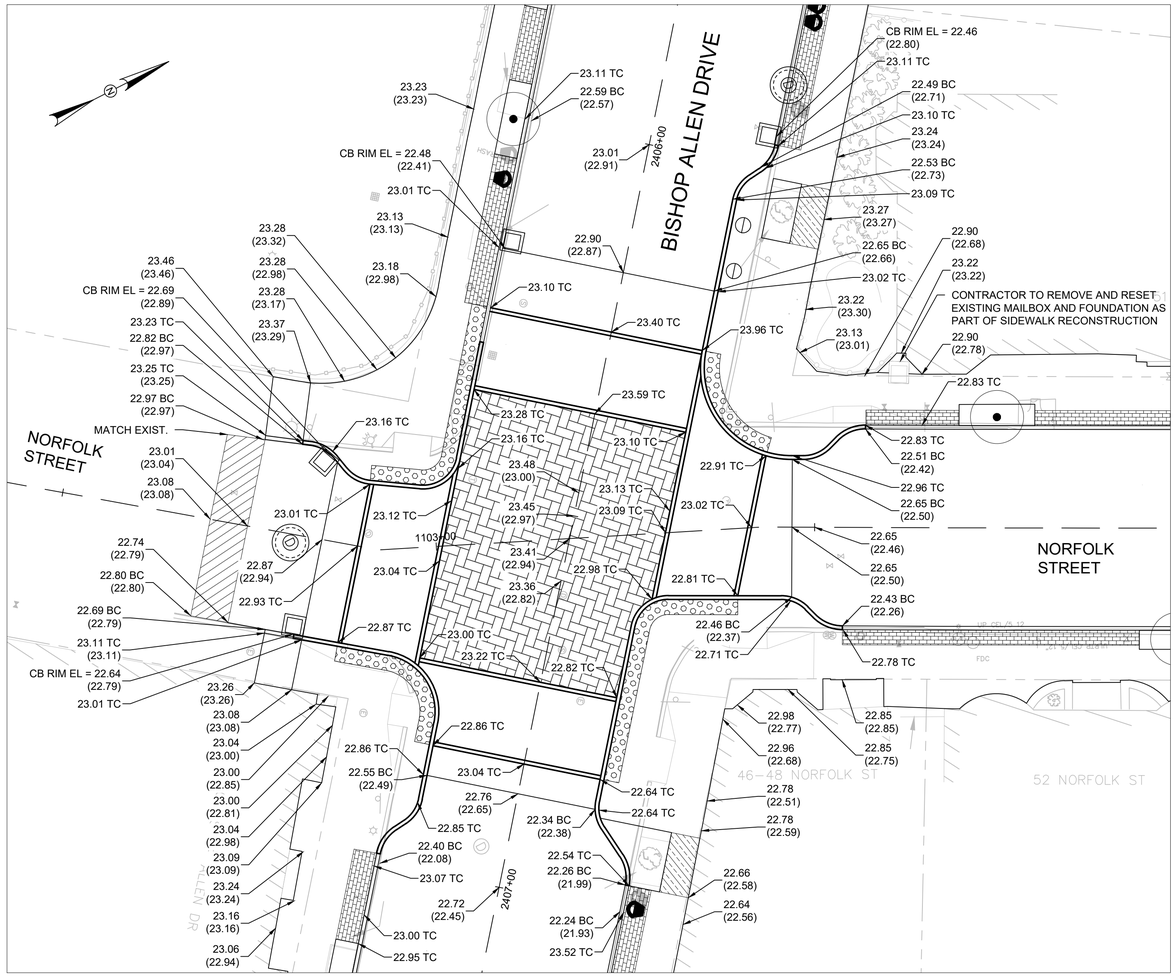
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - INTERSECTION GRADING
ESSEX STREET INTERSECTIONS

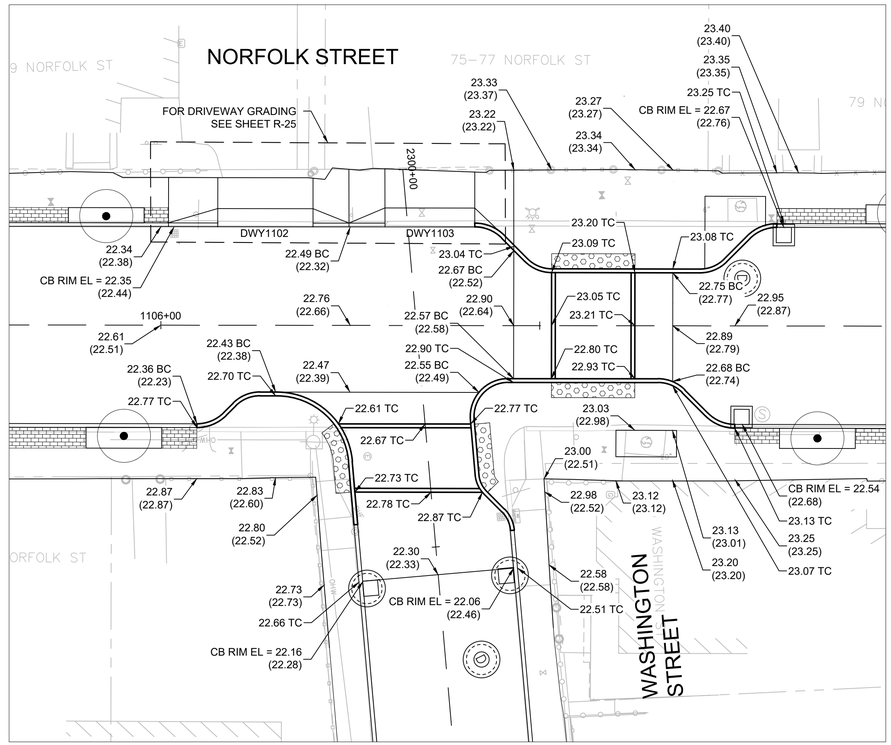
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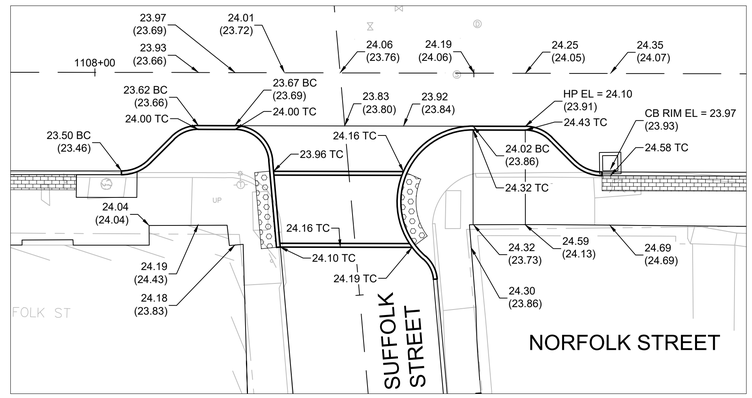
Plot date - 12/17/2025 8:51:55 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Inf\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Essex Street Intersections.dwg LAYOUT: R-55 BY: peter garland



INTERSECTION GRADING PLAN
NORFOLK STREET AT BISHOP ALLEN DRIVE



INTERSECTION GRADING PLAN
NORFOLK STREET AT WASHINGTON STREET



INTERSECTION GRADING PLAN
NORFOLK STREET AT SUFFOLK STREET

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 10 20 30
SCALE: 1" = 10'
SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

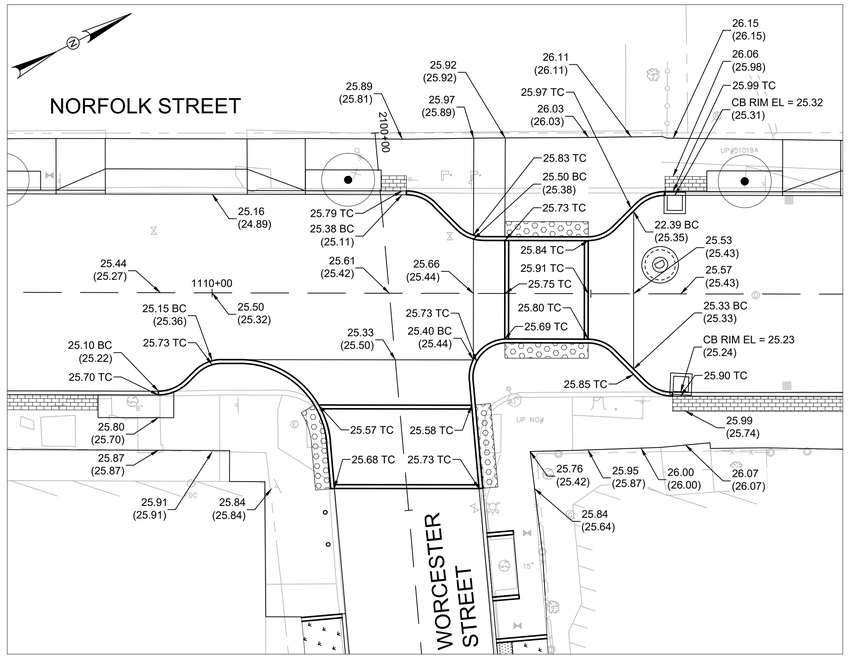
Drawing: ROADWAY - INTERSECTION GRADING NORFOLK STREET INTERSECTIONS - (1 OF 2)

Sheet: R-56

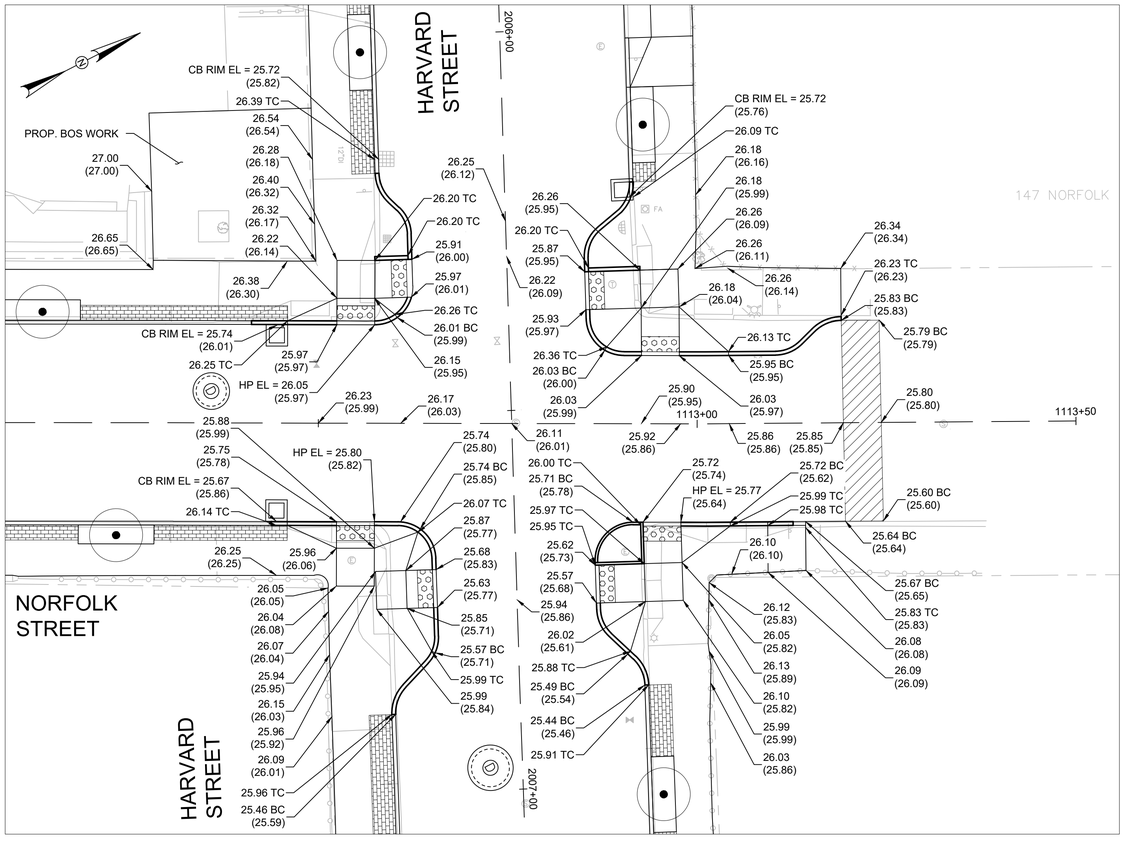
File No.: 30724

Plot date: 12/16/2025 12:28:32 PM
CAD FILE: I:\City Of Cambridge MA\2020\1034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Norfolk Street Intersections.dwg LAYOUT: R-56 BY: peter garland

Plot date: 12/16/2025 12:28:32 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Norfolk Street Intersections.dwg LAYOUT: R-57 BY: peter garland



INTERSECTION GRADING PLAN
NORFOLK STREET AT WORCESTER STREET



INTERSECTION GRADING PLAN
NORFOLK STREET AT HARVARD STREET

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 20'

0 10 20 30
SCALE: 1" = 10'
SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

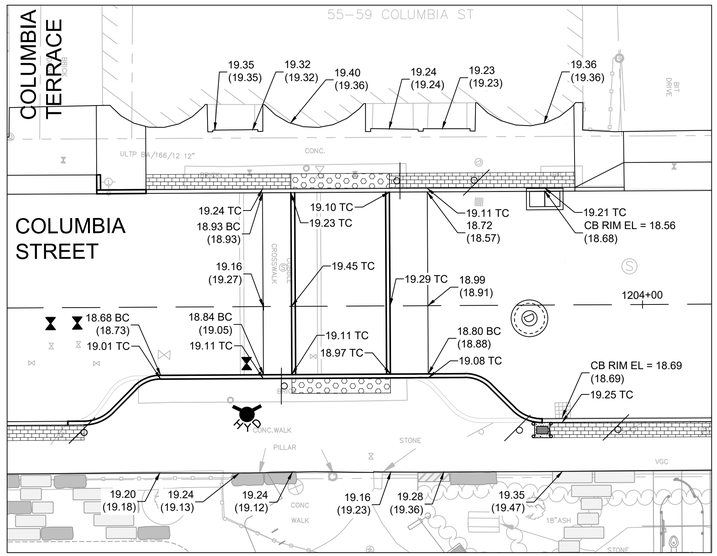
Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

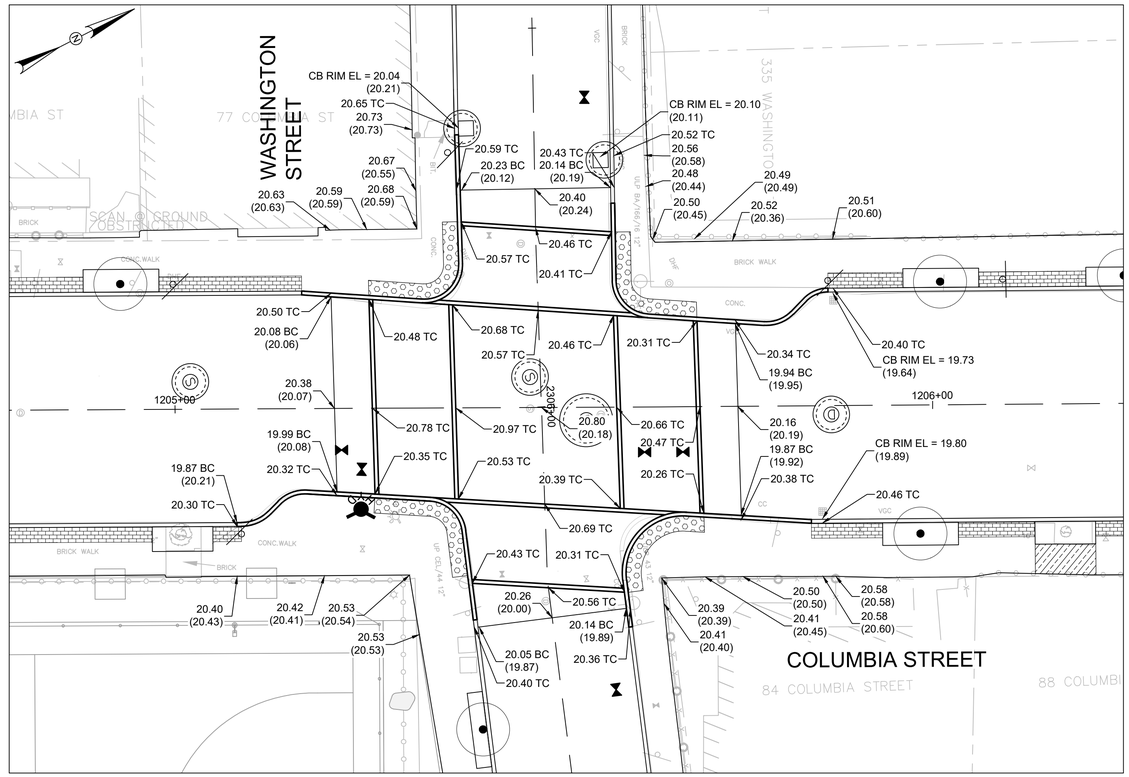
THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ROADWAY - INTERSECTION GRADING NORFOLK STREET INTERSECTIONS - (2 OF 2)

Sheet: R-57
File No.: 30724



INTERSECTION GRADING PLAN
COLUMBIA STREET AT CLEMENT MORGAN PARK



INTERSECTION GRADING PLAN
COLUMBIA STREET AT WASHINGTON STREET

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

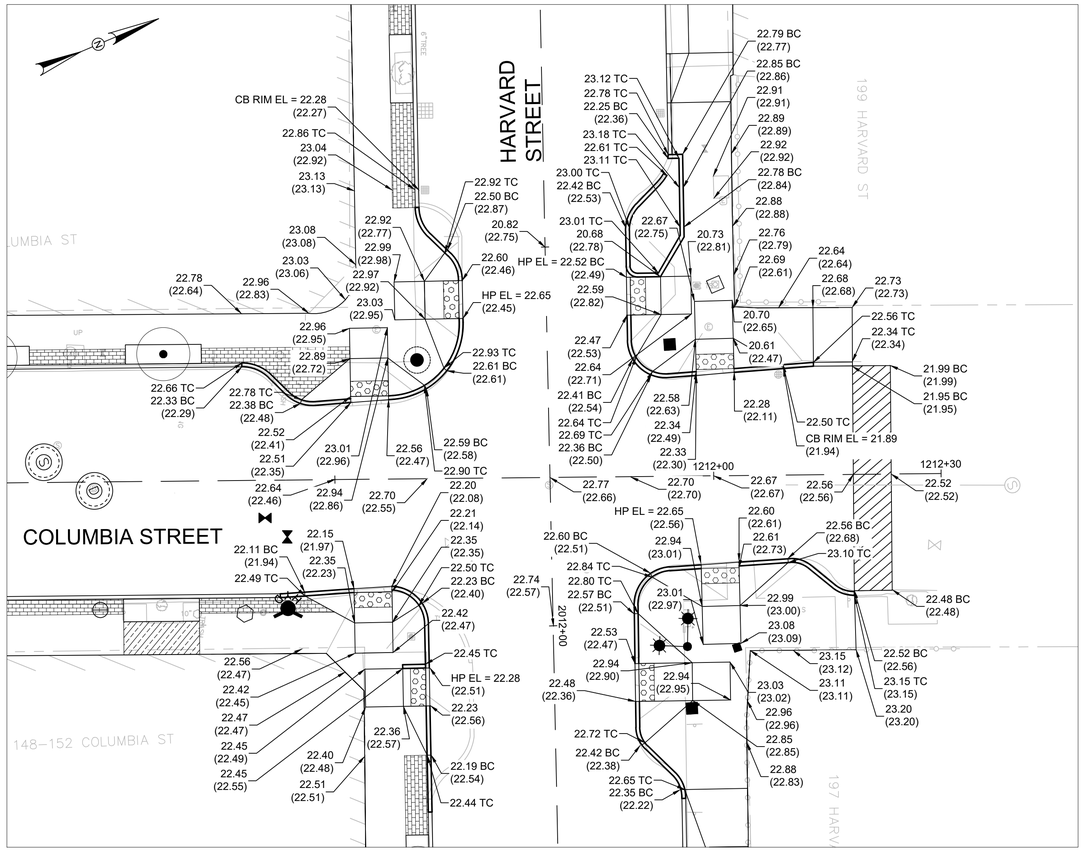
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - INTERSECTION GRADING
COLUMBIA STREET INTERSECTIONS - (1 OF 2)

Sheet: R-58

File No.: 30724

Plot date: 12/17/2025 8:38:39 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Grading\Grading Plan - Columbia Street Intersections.dwg LAYOUT: R-58 BY: peter.garland



INTERSECTION GRADING PLAN
COLUMBIA STREET AT HARVARD STREET

NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - INTERSECTION GRADING
COLUMBIA STREET INTERSECTIONS - (2 OF 2)

Sheet: R-59

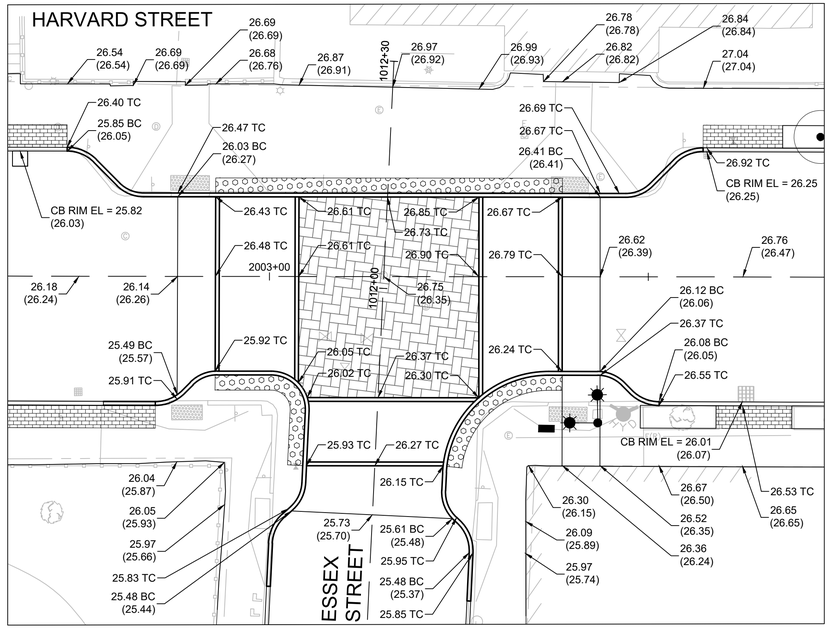
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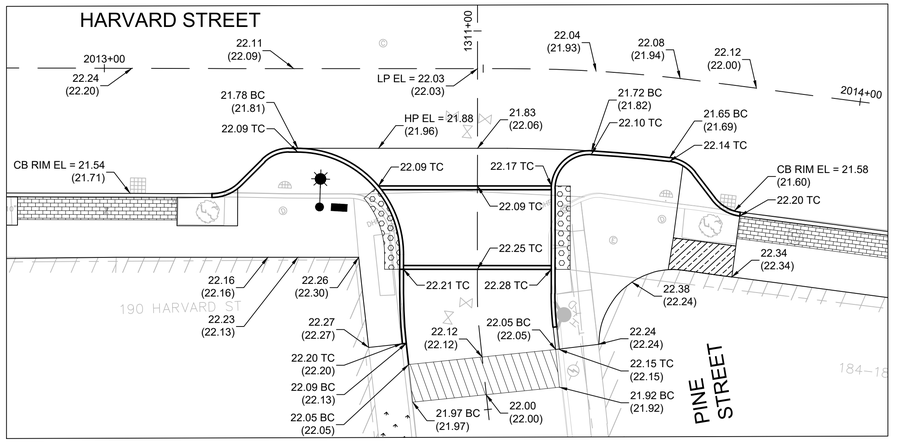
NOTES:

1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

   CONTRACTOR TO PROVIDE 90-DAY NOTIFICATION TO ENGINEER AHEAD OF STARTING SIDEWALK WORK TO ALLOW FOR POTENTIAL NEED FOR SURVEY AND REVISED GRADING DESIGN.



INTERSECTION GRADING PLAN
HARVARD STREET AT ESSEX STREET



INTERSECTION GRADING PLAN
HARVARD STREET AT PINE STREET

INTERSECTION GRADING PLAN
HARVARD STREET AT ELM STREET

INTERSECTION GRADING PLAN
HARVARD STREET AT BOARDMAN STREET

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10'
SCALE IN FEET

INTERSECTION GRADING PLAN
HARVARD STREET AT CHERRY STREET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
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	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

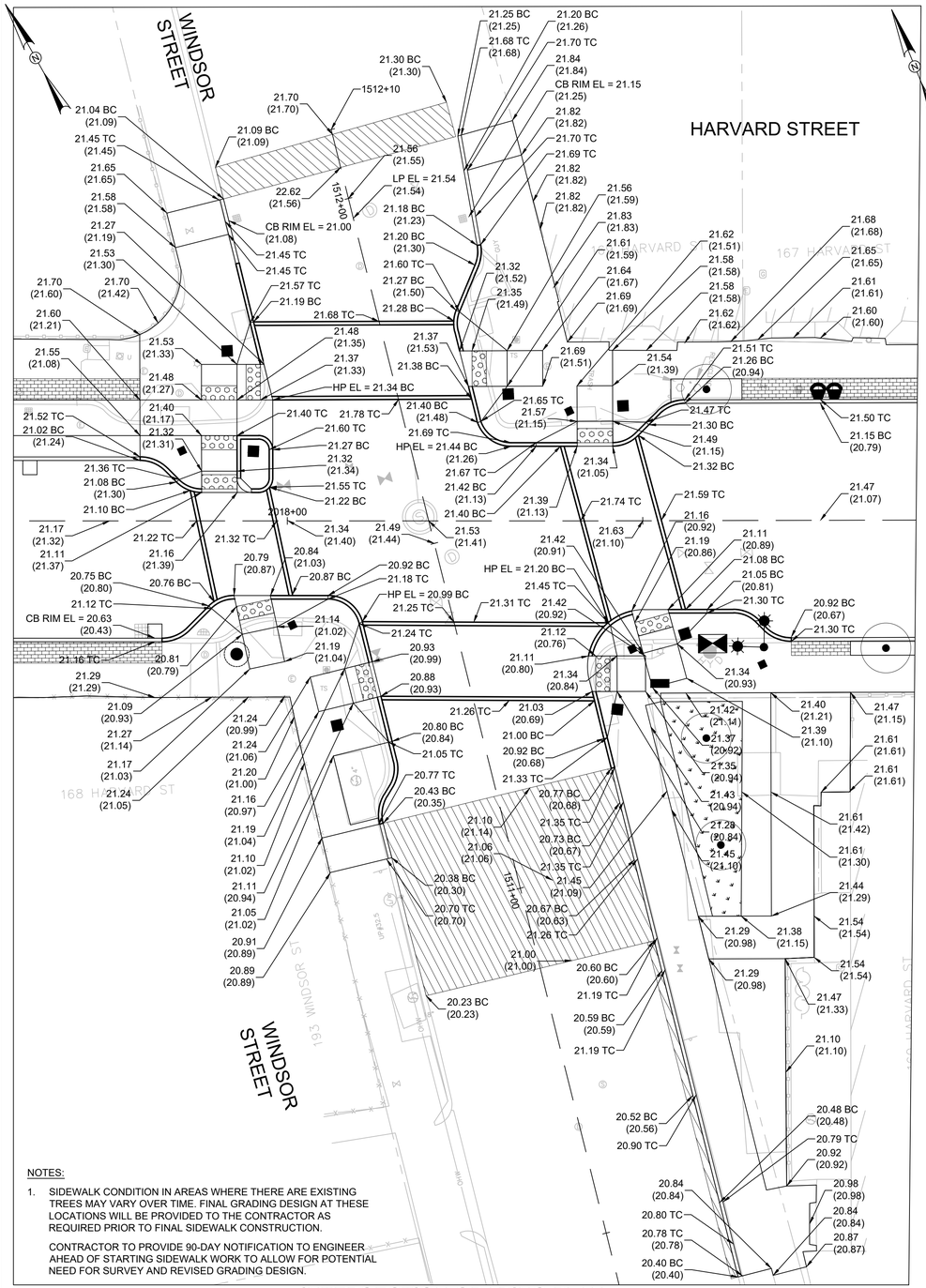
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - INTERSECTION GRADING
HARVARD STREET INTERSECTIONS - (1 OF 2)

Sheet: R-60

File No.: 30724

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NOTES:

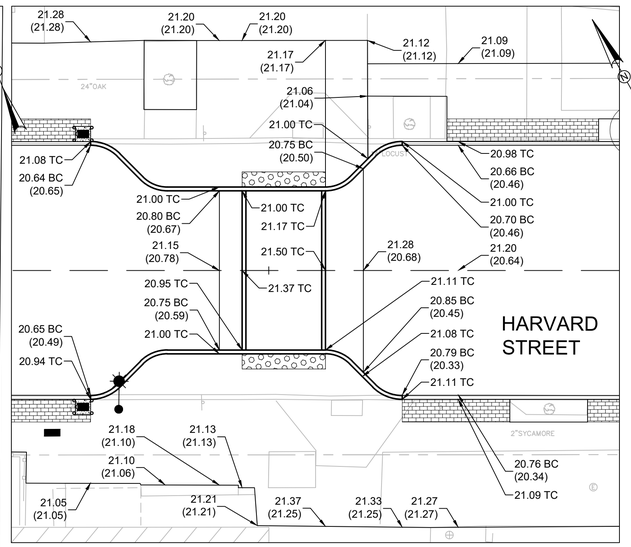
1. SIDEWALK CONDITION IN AREAS WHERE THERE ARE EXISTING TREES MAY VARY OVER TIME. FINAL GRADING DESIGN AT THESE LOCATIONS WILL BE PROVIDED TO THE CONTRACTOR AS REQUIRED PRIOR TO FINAL SIDEWALK CONSTRUCTION.

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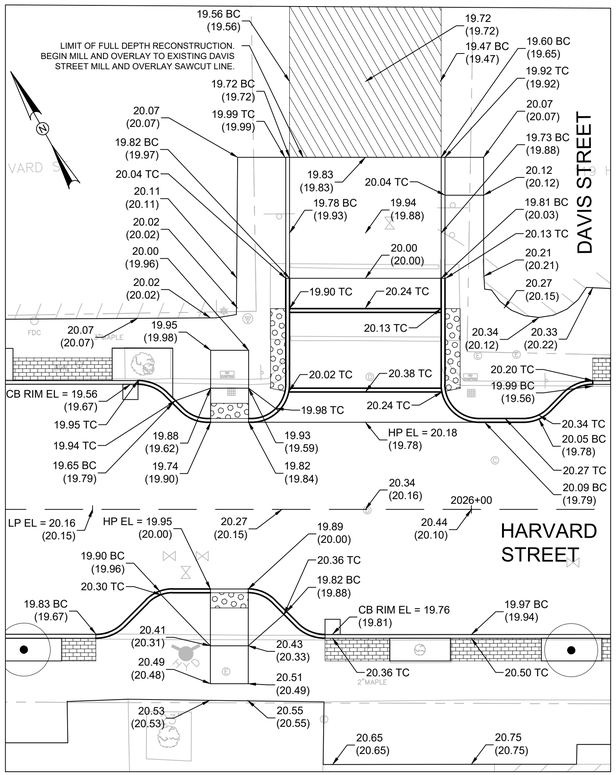
INTERSECTION GRADING PLAN
HARVARD STREET AT WINDSOR STREET

PLAN
SCALE: 1" = 10'

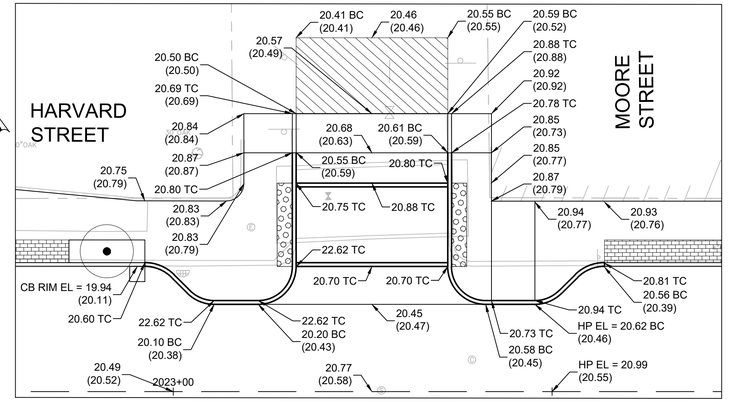
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SCALE: 1" = 10' SCALE IN FEET



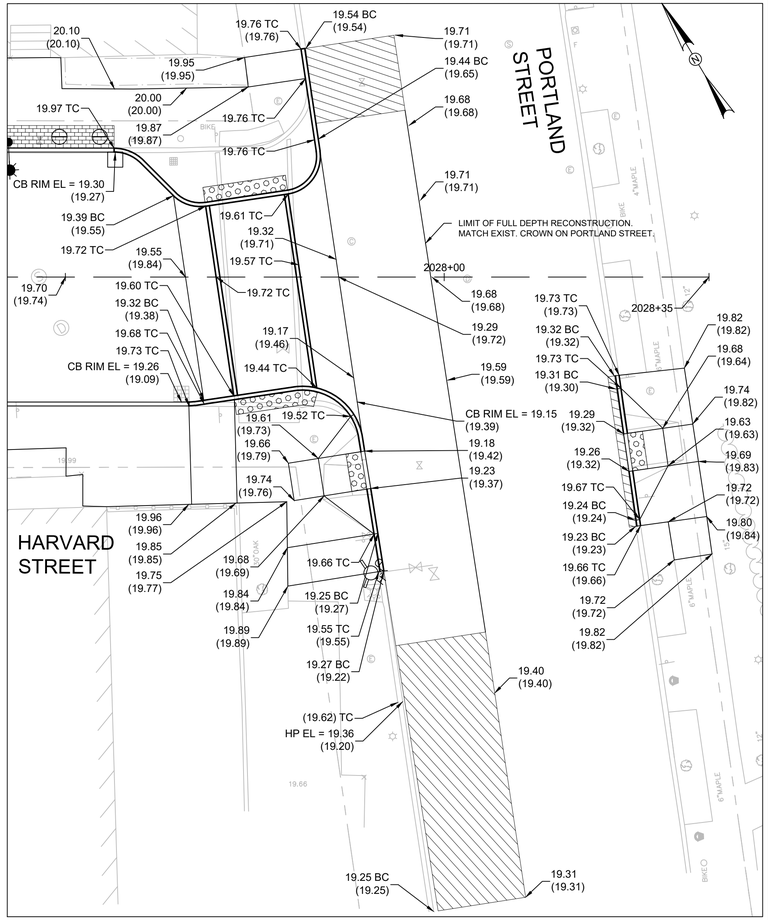
INTERSECTION GRADING PLAN
HARVARD STREET AT GREEN-ROSE HERITAGE PARK



INTERSECTION GRADING PLAN
HARVARD STREET AT DAVIS STREET



INTERSECTION GRADING PLAN
HARVARD STREET AT MOORE STREET



INTERSECTION GRADING PLAN
HARVARD STREET AT PORTLAND STREET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - INTERSECTION GRADING
HARVARD STREET INTERSECTIONS - (2 OF 2)

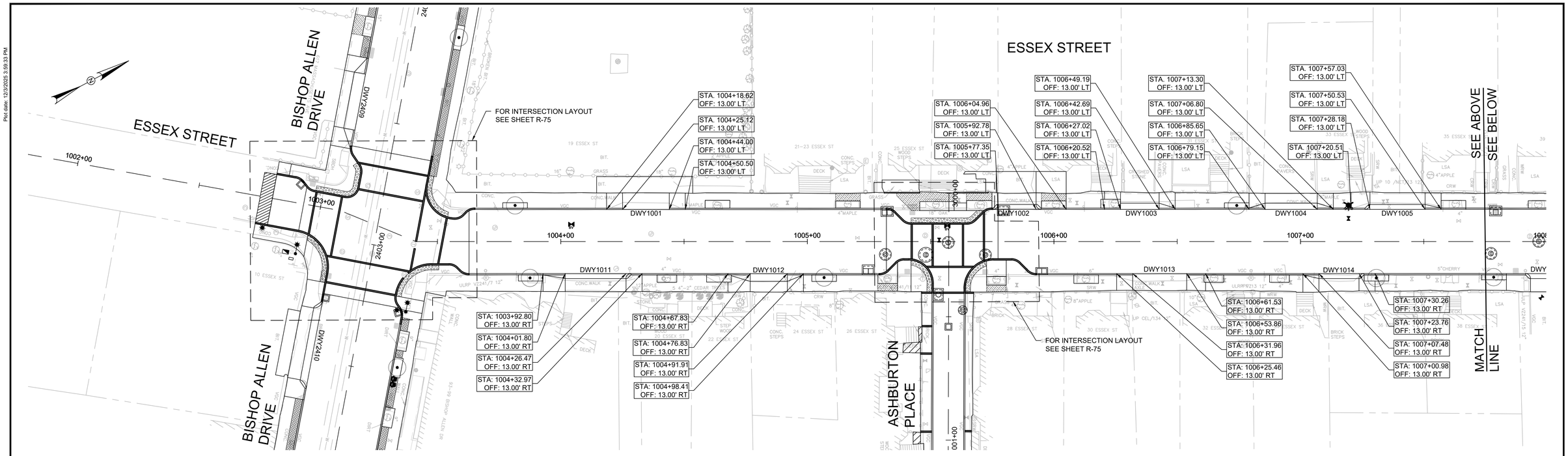
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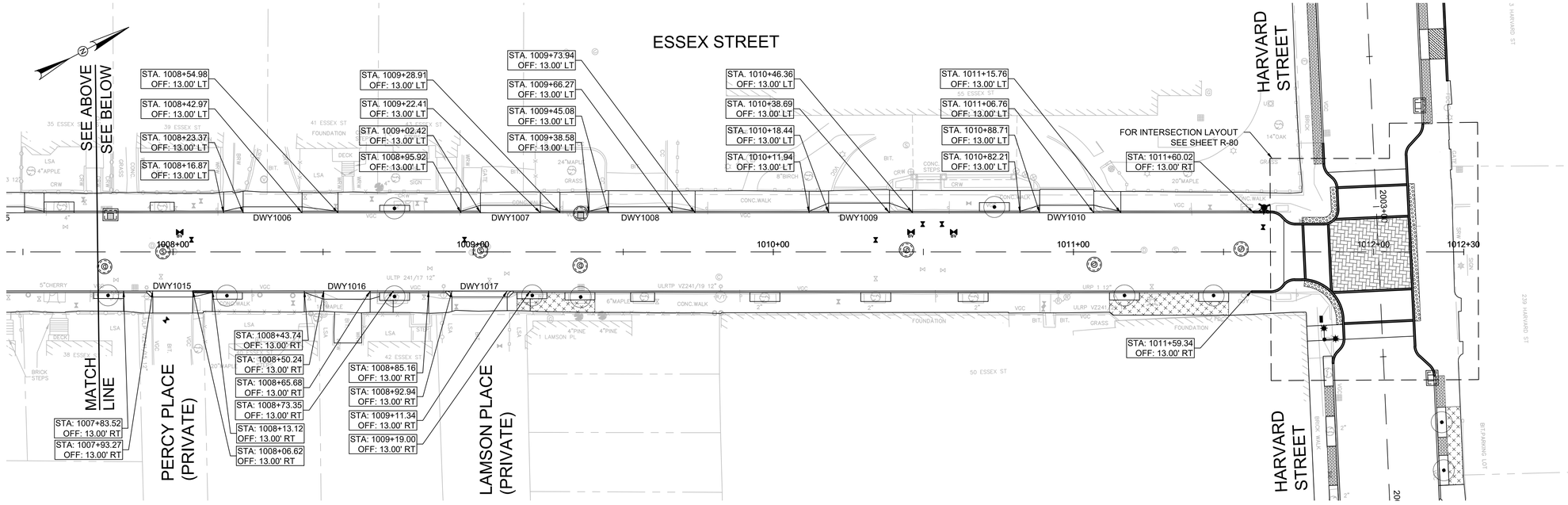
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Plot date: 12/3/2025 3:59:33 PM





PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

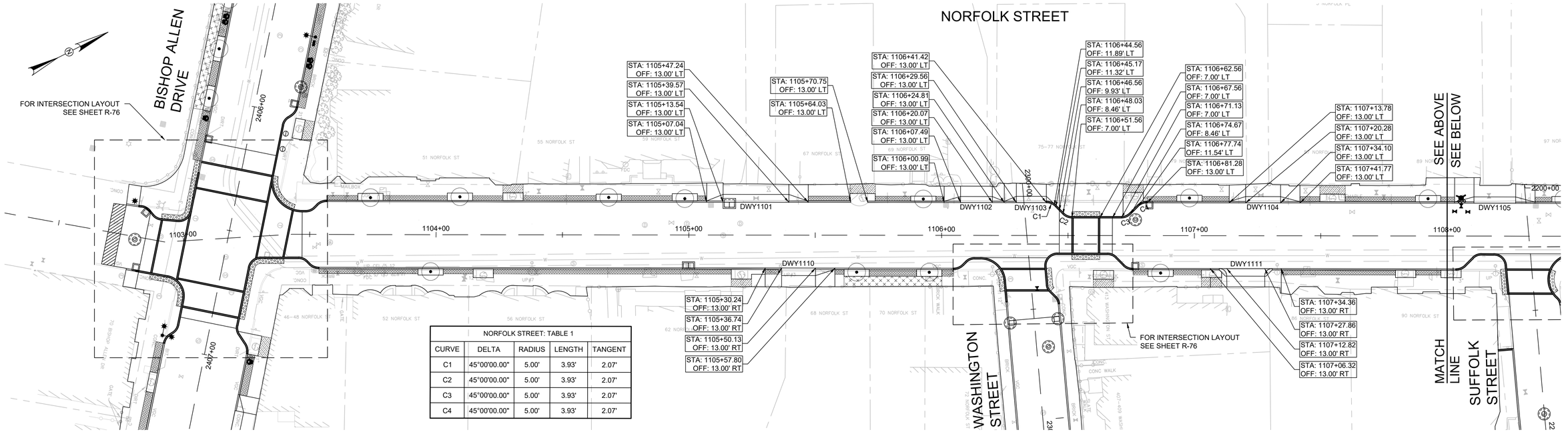
Drawing: ROADWAY - CURB TIE PLAN
ESSEX STREET STA. 1003+50 TO STA. 1011+75

Sheet: R-62

File No.: 30724

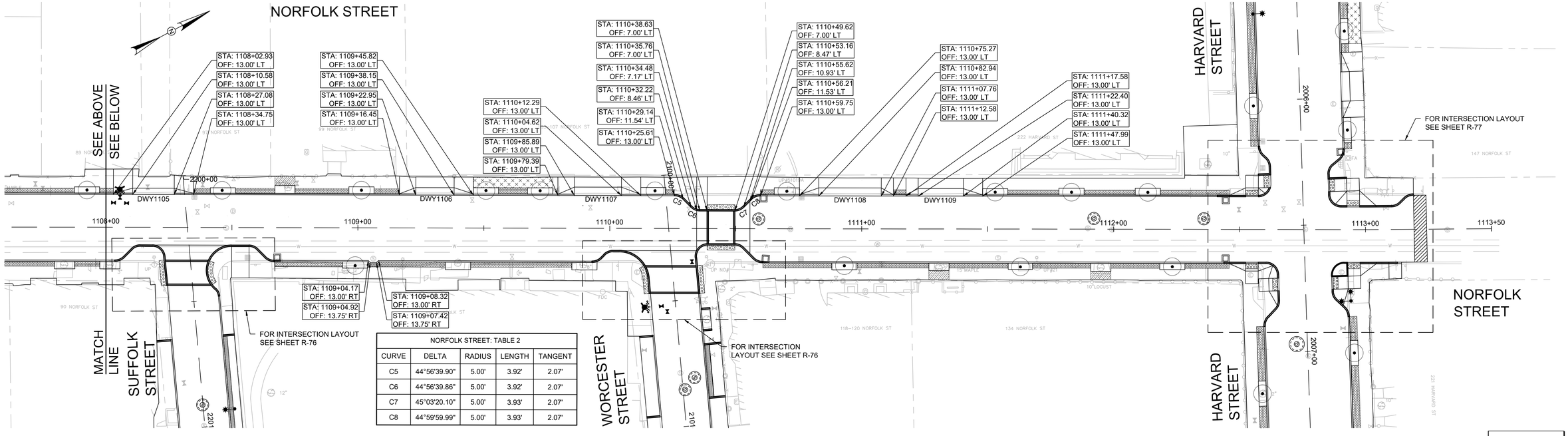
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Plot date: 12/4/2025 1:01:52 PM



NORFOLK STREET: TABLE 1

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	45°00'00.00"	5.00'	3.93'	2.07'
C2	45°00'00.00"	5.00'	3.93'	2.07'
C3	45°00'00.00"	5.00'	3.93'	2.07'
C4	45°00'00.00"	5.00'	3.93'	2.07'



NORFOLK STREET: TABLE 2

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C5	44°56'39.90"	5.00'	3.92'	2.07'
C6	44°56'39.86"	5.00'	3.92'	2.07'
C7	45°03'20.10"	5.00'	3.93'	2.07'
C8	44°59'59.99"	5.00'	3.93'	2.07'

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

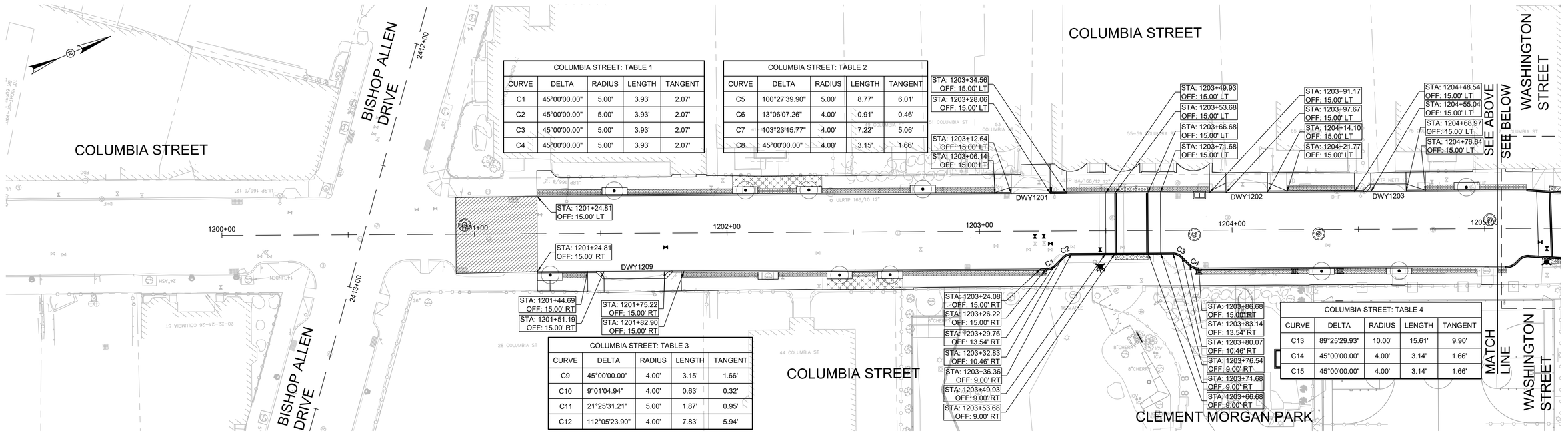
Drawing: ROADWAY - CURB TIE PLAN
NORFOLK STREET STA. 1103+50 TO STA. 1113+50

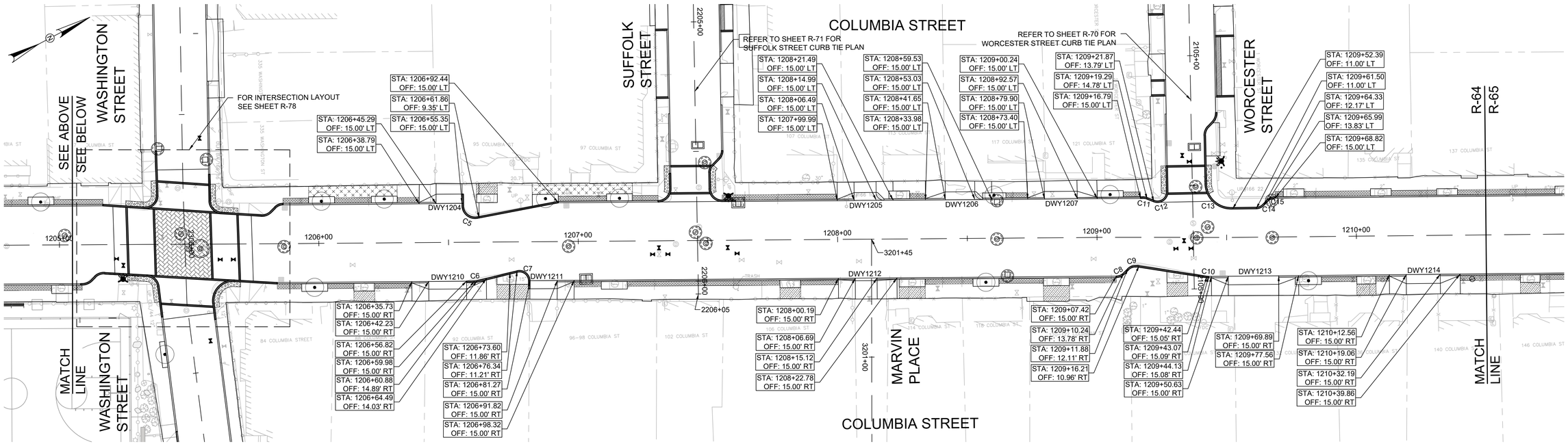
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File No.: 30724

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Plot date: 12/8/2025 2:15:57 PM





PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

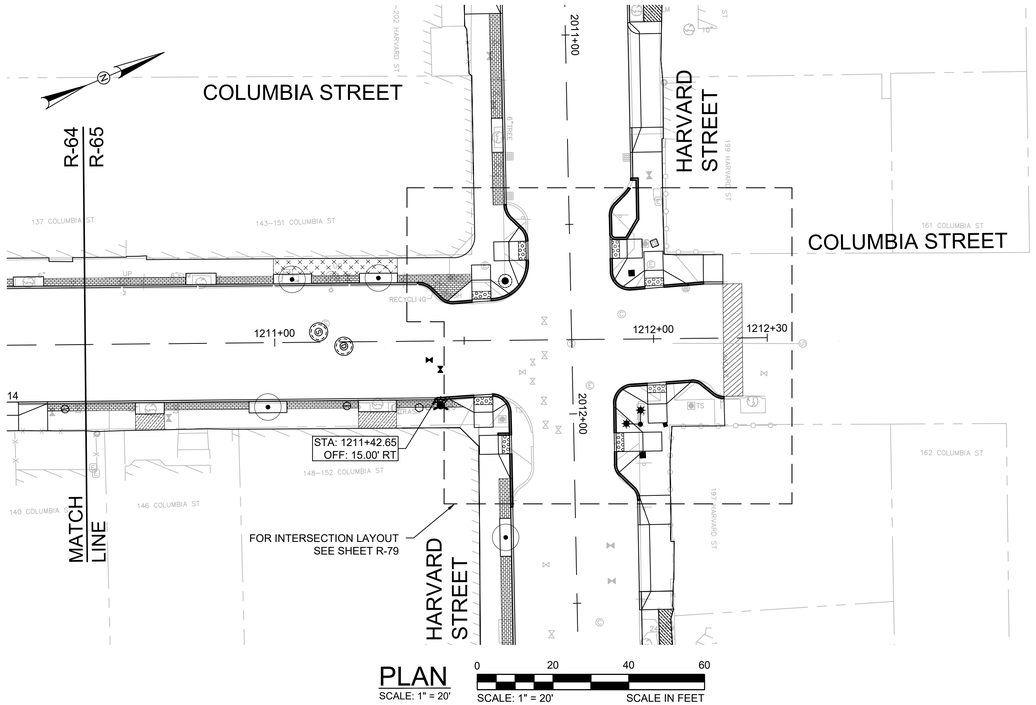
Drawing: ROADWAY - CURB TIE PLAN
COLUMBIA STREET STA. 1201+25 TO STA. 1210+50

Sheet: R-64

File No.: 30724

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Plot date: 12/8/2025 2:15:57 PM



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20'
SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

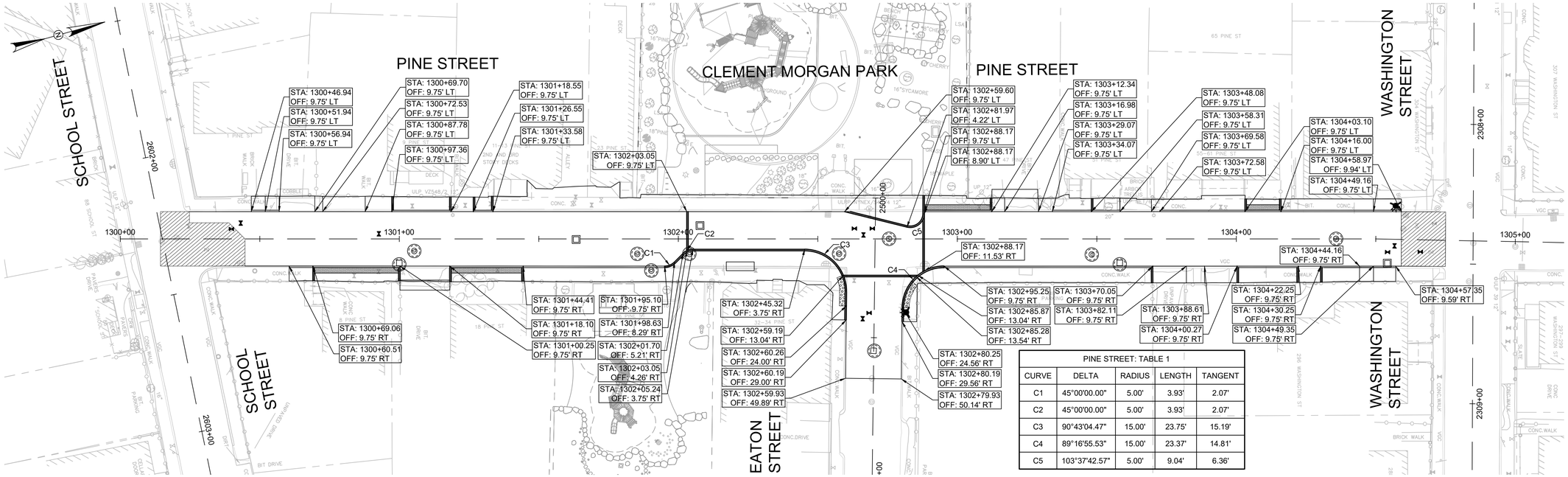
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
COLUMBIA STREET STA. 1210+50 TO STA. 1212+30

Sheet: R-65

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Curb Tie\Curb Tie Plan - Columbia Street.dwg LAYOUT: R-65 BY: peter.garland



PINE STREET: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	45°00'00.00"	5.00'	3.93'	2.07'
C2	45°00'00.00"	5.00'	3.93'	2.07'
C3	90°43'04.47"	15.00'	23.75'	15.19'
C4	89°16'55.53"	15.00'	23.37'	14.81'
C5	103°37'42.57"	5.00'	9.04'	6.36'

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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KATE E. ACKERSON
COMMONWEALTH OF MASSACHUSETTS
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

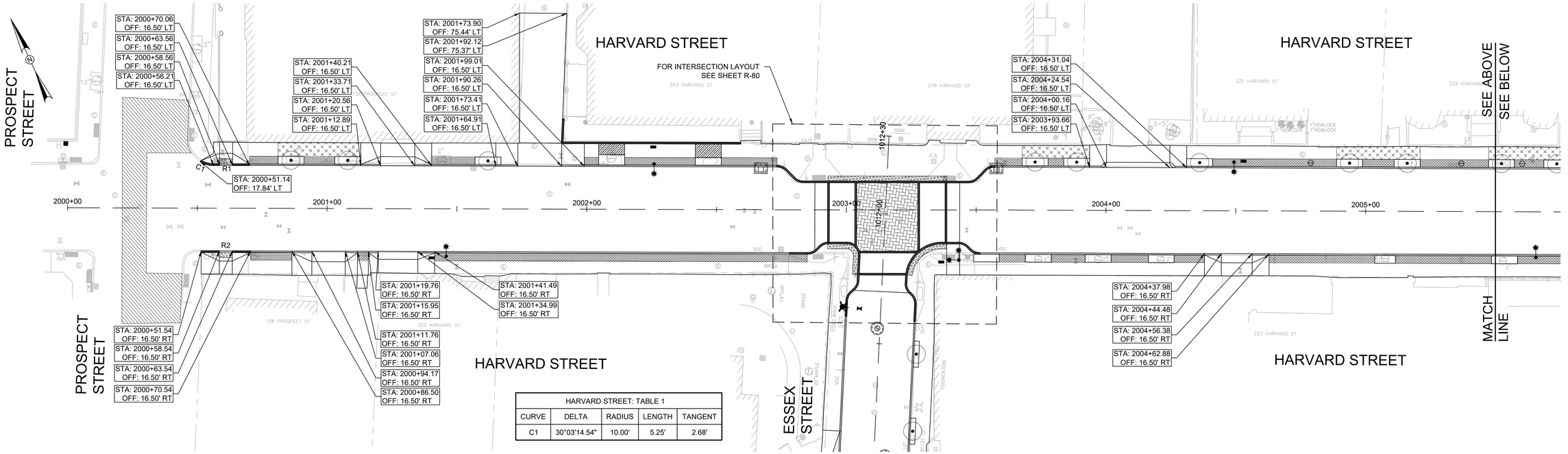
Drawing: ROADWAY - CURB TIE PLAN
PINE STREET STA. 1300+25 TO STA. 1304+65

Sheet: R-66

File No.: 30724

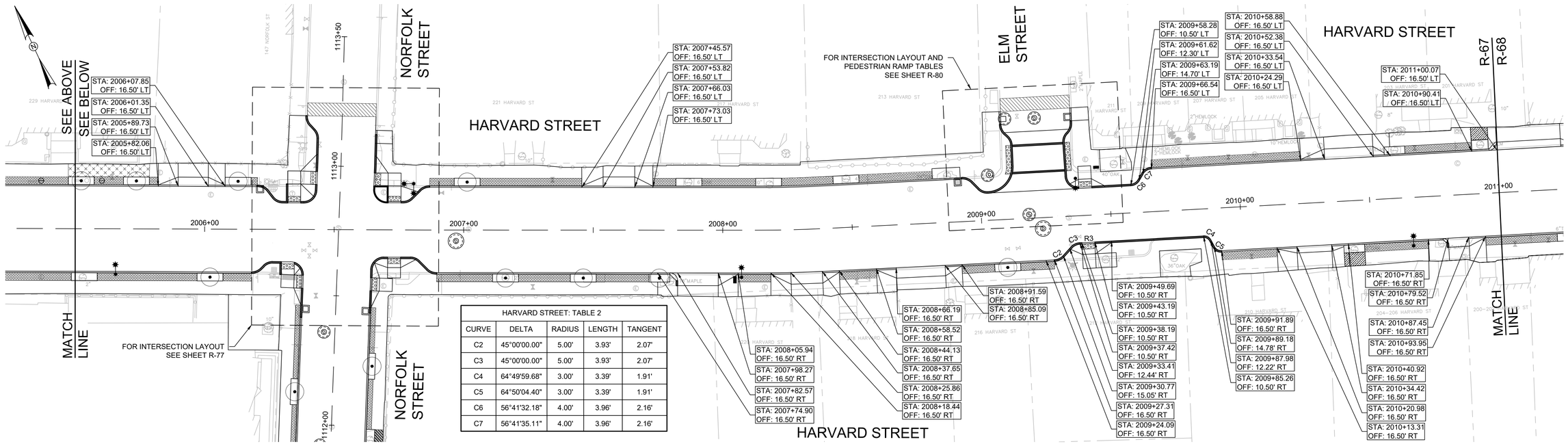
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Plot date: 12/17/2025 10:43:15 AM



HARVARD STREET: TABLE 1

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	30°03'14.54"	10.00'	5.25'	2.68'



HARVARD STREET: TABLE 2

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C2	45°00'00.00"	5.00'	3.93'	2.07'
C3	45°00'00.00"	5.00'	3.93'	2.07'
C4	64°49'59.68"	3.00'	3.39'	1.91'
C5	64°50'04.40"	3.00'	3.39'	1.91'
C6	56°41'32.18"	4.00'	3.96'	2.16'
C7	56°41'35.11"	4.00'	3.96'	2.16'

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
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Drawn by	MCS
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Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

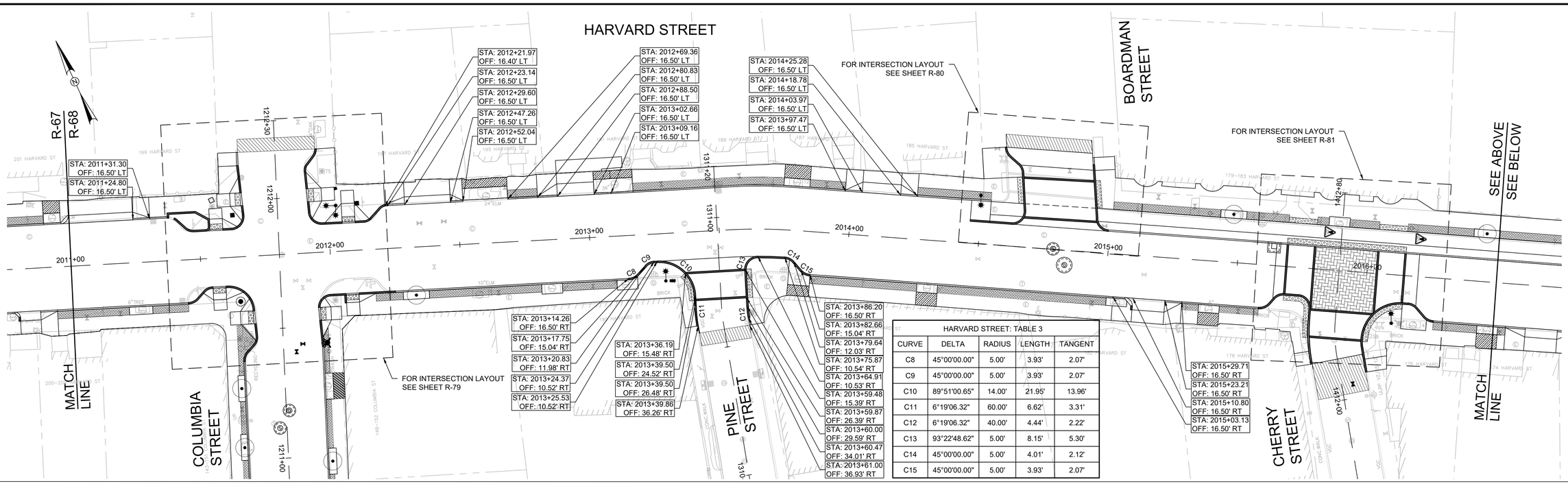
Drawing: ROADWAY - CURB TIE PLAN
HARVARD STREET - STA. 2000+00 TO STA. 2011+00

Sheet: R-67

File No.: 30724

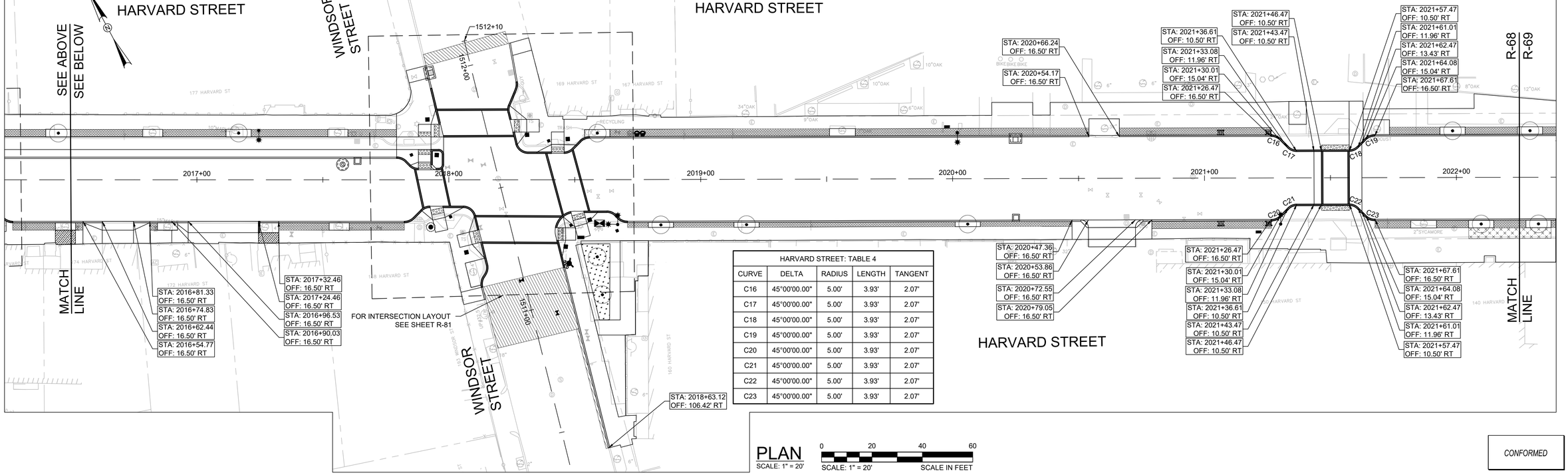
CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Curb Tie\Curb Tie Plan - Harvard Street.dwg LAYOUT: R-67 BY: peter gatland

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HARVARD STREET: TABLE 3

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C8	45°00'00.00"	5.00'	3.93'	2.07'
C9	45°00'00.00"	5.00'	3.93'	2.07'
C10	89°51'00.65"	14.00'	21.95'	13.96'
C11	6°19'06.32"	60.00'	6.62'	3.31'
C12	6°19'06.32"	40.00'	4.44'	2.22'
C13	93°22'48.62"	5.00'	8.15'	5.30'
C14	45°00'00.00"	5.00'	4.01'	2.12'
C15	45°00'00.00"	5.00'	3.93'	2.07'



HARVARD STREET: TABLE 4

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C16	45°00'00.00"	5.00'	3.93'	2.07'
C17	45°00'00.00"	5.00'	3.93'	2.07'
C18	45°00'00.00"	5.00'	3.93'	2.07'
C19	45°00'00.00"	5.00'	3.93'	2.07'
C20	45°00'00.00"	5.00'	3.93'	2.07'
C21	45°00'00.00"	5.00'	3.93'	2.07'
C22	45°00'00.00"	5.00'	3.93'	2.07'
C23	45°00'00.00"	5.00'	3.93'	2.07'

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
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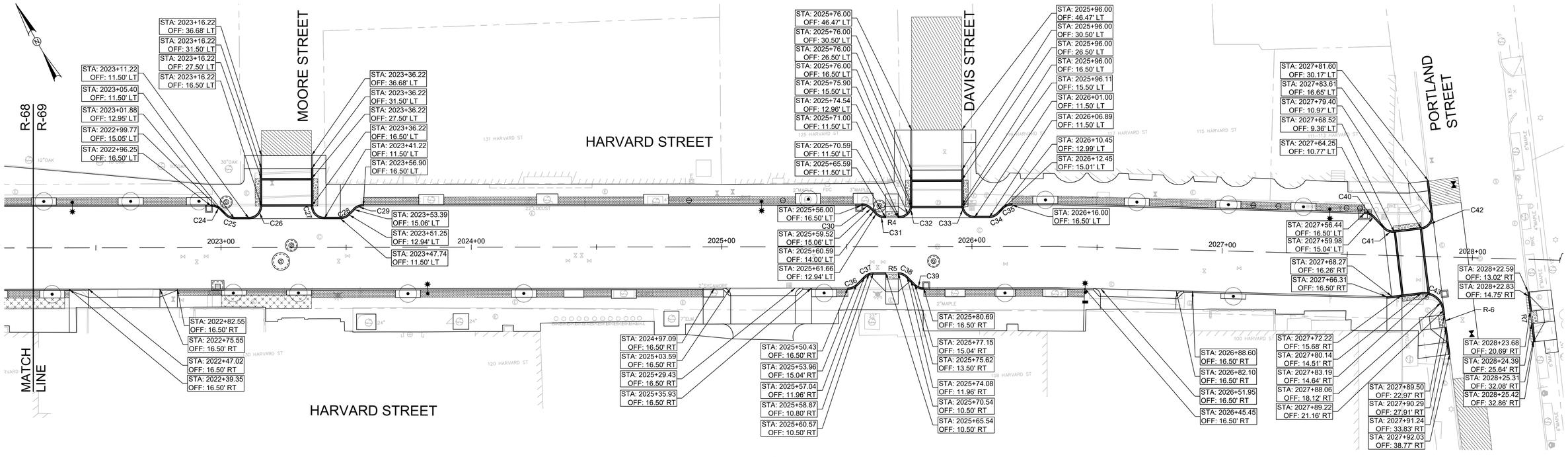
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
HARVARD STREET - STA. 2011+00 TO STA. 2022+25

Sheet: R-68

File No.: 30724

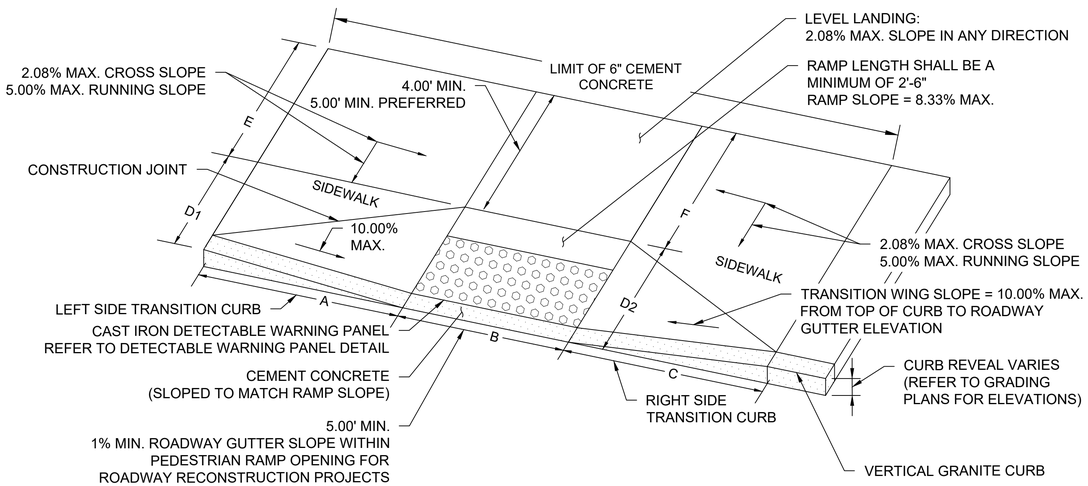


PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET



PEDESTRIAN RAMP

SCALE: NOT TO SCALE

HARVARD STREET: TABLE 5				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C24	45°00'00.00"	5.00'	3.91'	2.06'
C25	45°00'00.00"	5.00'	3.91'	2.06'
C26	90°00'00.00"	5.00'	7.85'	5.00'
C27	90°00'00.00"	5.00'	7.85'	5.00'
C28	45°00'00.00"	5.00'	3.90'	2.05'
C29	45°00'00.00"	5.00'	3.90'	2.05'
C30	45°00'00.00"	5.00'	3.89'	2.05'
C31	45°00'00.00"	5.00'	3.89'	2.05'
C32	90°00'00.00"	5.00'	7.85'	5.00'
C33	90°00'00.00"	5.00'	7.85'	5.00'
C34	45°00'00.00"	5.00'	3.96'	2.09'

HARVARD STREET: TABLE 6				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C35	45°00'00.00"	5.00'	3.96'	2.09'
C36	45°00'00.00"	5.00'	3.93'	2.07'
C37	45°00'00.00"	5.00'	3.93'	2.07'
C38	45°00'00.00"	5.00'	3.93'	2.07'
C39	45°00'00.00"	5.00'	3.93'	2.07'
C40	45°00'00.00"	5.00'	3.93'	2.07'
C41	53°25'27.17"	5.00'	4.66'	2.52'
C42	90°01'23.54"	5.00'	7.86'	5.00'
C43	89°20'38.89"	8.00'	12.47'	7.91'

PEDESTRIAN RAMP DATA

	RAMP REFERENCE POINT			TRANS L	TRANS W	TRANS R	RAMP LENGTH		LANDING LENGTH	
RAMP #	STATION	OFFSET		A	B	C	D1	D2	E	F
R1	2000+61.04	16.50	L	7.67	5.00	6.50	4.64	4.64	4.35	4.28
R2	2000+61.04	16.50	R	7.00	5.00	7.00	3.85	3.85	5.08	5.00
R3	2009+40.69	10.50	R	6.50	5.00	6.95	4.50	4.50	5.50	5.50
R4	2025+68.09	11.50	L	5.82	5.00	4.34	4.50	4.50	5.00	5.00
R5	2025+68.04	10.50	R	6.10	5.00	6.70	7.50	7.50	5.00	5.00
R6	2027+89.90	25.44	R	6.00	5.00	5.10	6.20	6.20	4.00	4.00
R7	2028+24.03	23.17	R	6.00	5.00	6.50	5.20	5.20	4.00	4.00

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
HARVARD STREET - STA. 2022+25 TO STA. 2028+00

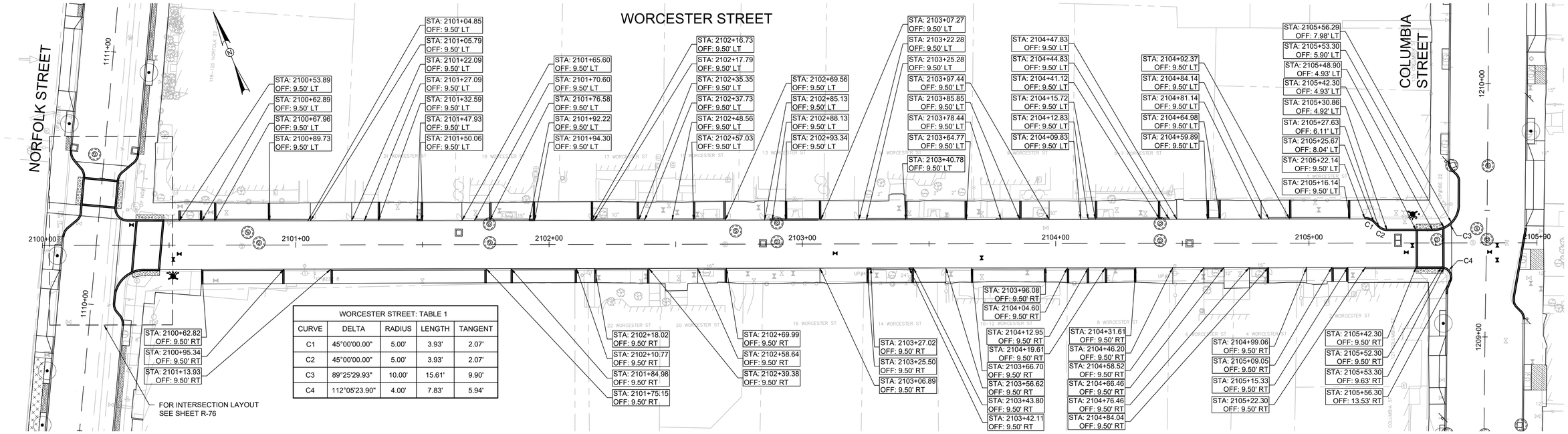
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File No.: 30724

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Plot date: 12/9/2025 10:33:00 AM

WORCESTER STREET



WORCESTER STREET: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	45°00'00.00"	5.00'	3.93'	2.07'
C2	45°00'00.00"	5.00'	3.93'	2.07'
C3	89°25'29.93"	10.00'	15.61'	9.90'
C4	112°05'23.90"	4.00'	7.83'	5.94'

PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

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Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

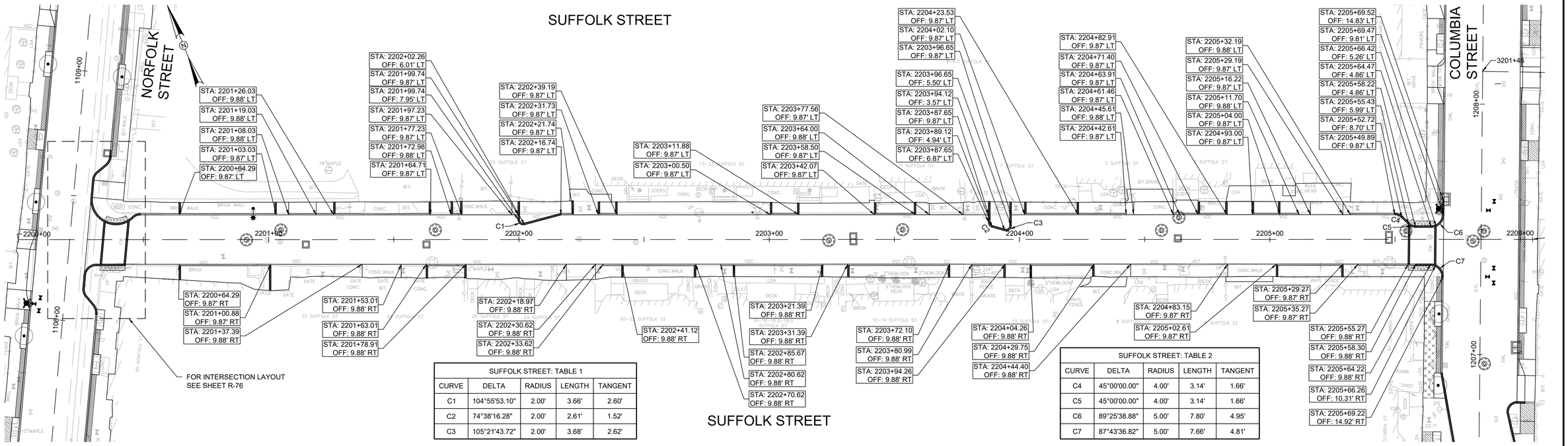
Drawing: ROADWAY - CURB TIE PLAN WORCESTER STREET STA. 2100+00 TO STA. 2105+90

Sheet: R-70

File No.: 30724

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Plot date: 12/5/2025 9:24:47 AM



SUFFOLK STREET: TABLE 1

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	104°55'53.10"	2.00'	3.66'	2.60'
C2	74°38'16.28"	2.00'	2.61'	1.52'
C3	105°21'43.72"	2.00'	3.68'	2.62'

SUFFOLK STREET: TABLE 2

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C4	45°00'00.00"	4.00'	3.14'	1.66'
C5	45°00'00.00"	4.00'	3.14'	1.66'
C6	89°25'38.88"	5.00'	7.80'	4.95'
C7	87°43'36.82"	5.00'	7.66'	4.81'

PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

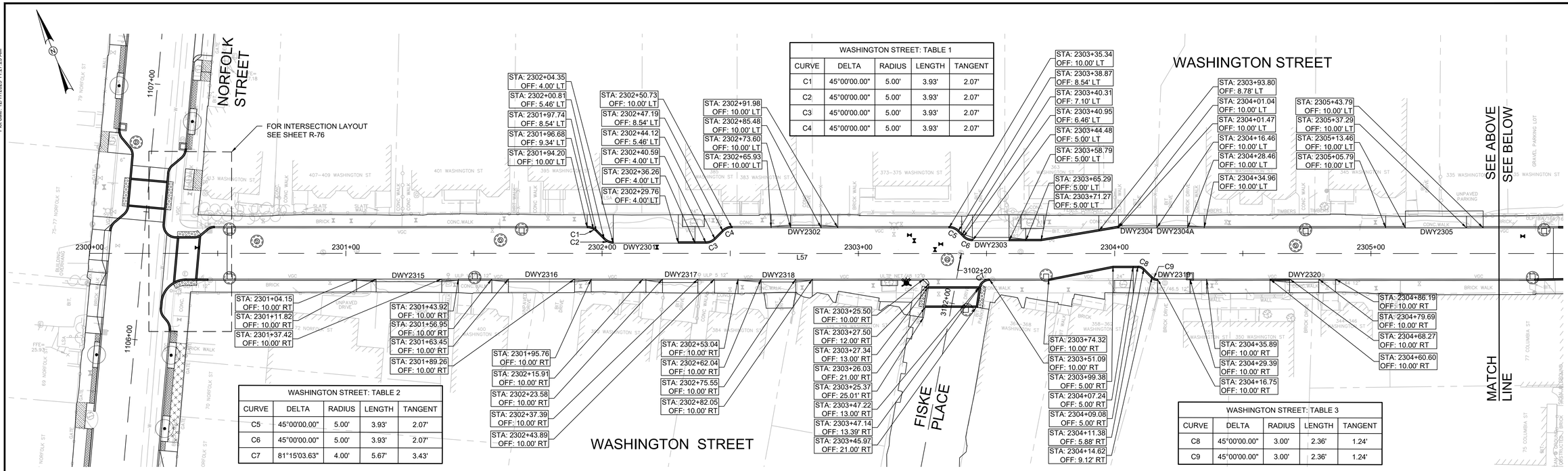
Drawing: ROADWAY - CURB TIE PLAN
SUFFOLK STREET STA. 2200+00 TO STA. 2206+05

Sheet: R-71

File No.: 30724

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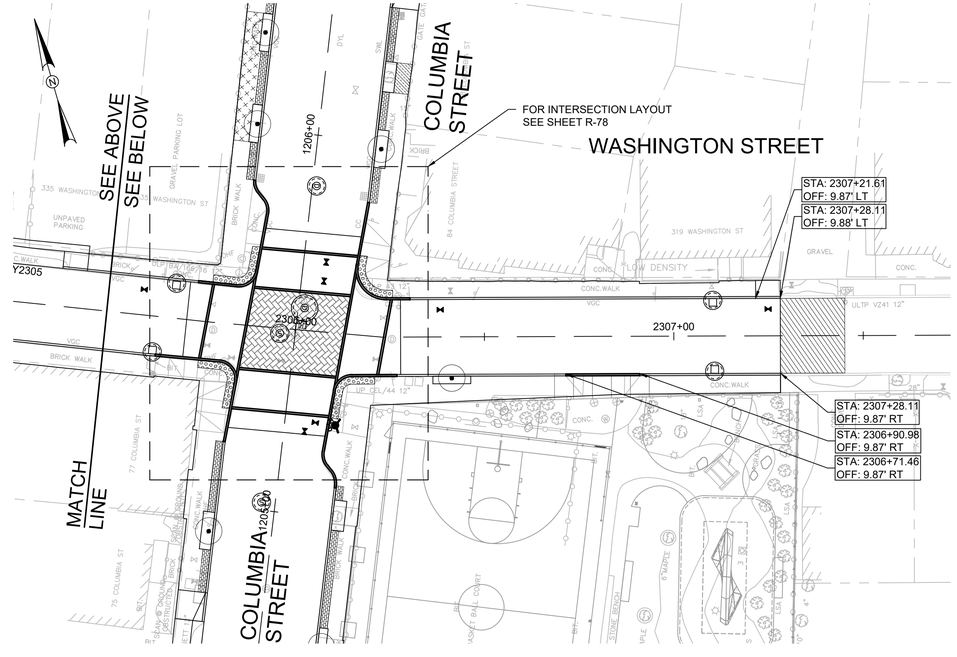
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WASHINGTON STREET: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	45°00'00.00"	5.00'	3.93'	2.07'
C2	45°00'00.00"	5.00'	3.93'	2.07'
C3	45°00'00.00"	5.00'	3.93'	2.07'
C4	45°00'00.00"	5.00'	3.93'	2.07'

WASHINGTON STREET: TABLE 2				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C5	45°00'00.00"	5.00'	3.93'	2.07'
C6	45°00'00.00"	5.00'	3.93'	2.07'
C7	81°15'03.63"	4.00'	5.67'	3.43'

WASHINGTON STREET: TABLE 3				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C8	45°00'00.00"	3.00'	2.36'	1.24'
C9	45°00'00.00"	3.00'	2.36'	1.24'



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
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THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

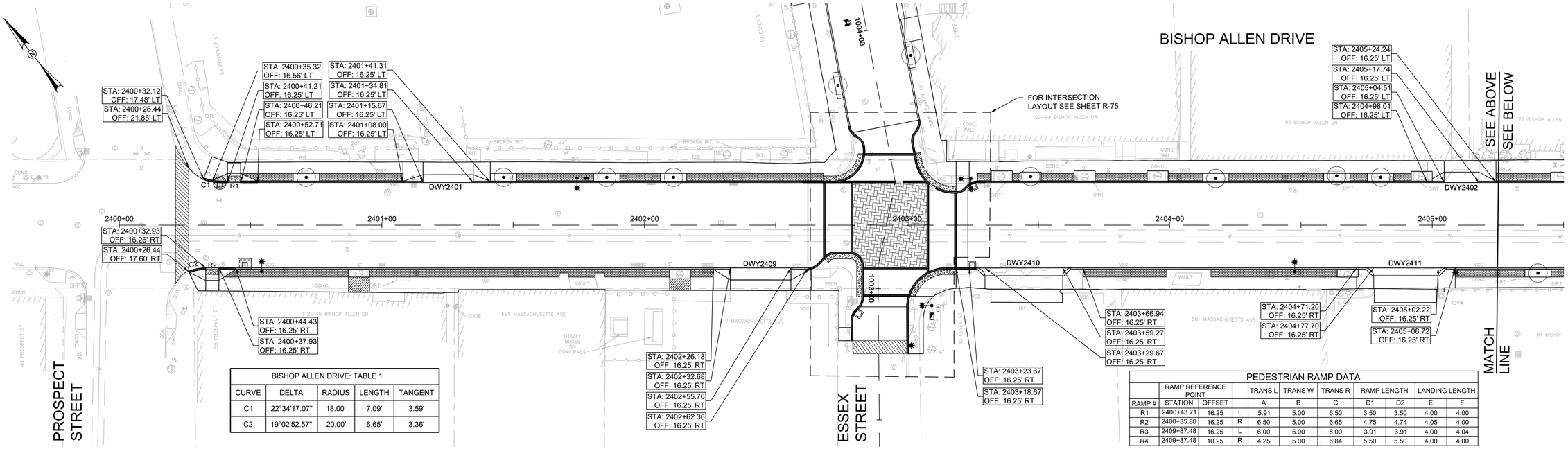
Drawing: ROADWAY - CURB TIE PLAN
WASHINGTON STREET - STA. 2300+00 TO STA. 2307+27

Sheet: R-72

File No.: 30724

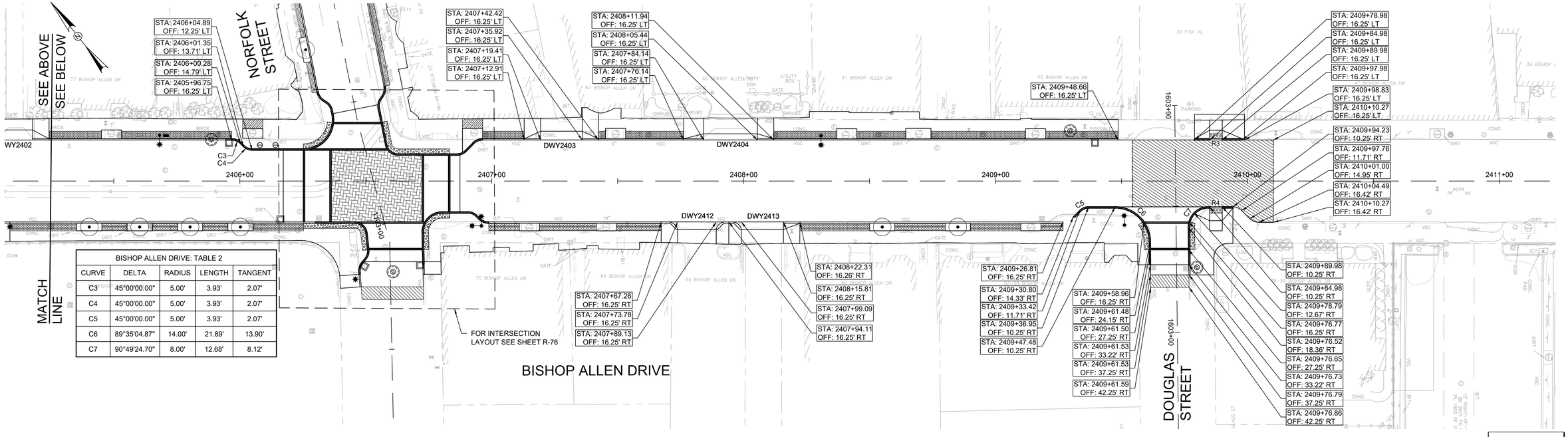
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BISHOP ALLEN DRIVE: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	22°34'17.07"	18.00'	7.09'	3.59'
C2	19°02'52.57"	20.00'	6.65'	3.36'

PEDESTRIAN RAMP DATA										
	RAMP REFERENCE POINT			TRANS L	TRANS W	TRANS R	RAMP LENGTH		LANDING LENGTH	
RAMP #	STATION	OFFSET		A	B	C	D1	D2	E	F
R1	2400+43.71	16.25	L	5.91	5.00	6.50	3.50	3.50	4.00	4.00
R2	2400+35.80	16.25	R	6.50	5.00	6.65	4.75	4.74	4.05	4.00
R3	2409+87.48	16.25	L	6.00	5.00	8.00	3.91	3.91	4.00	4.04
R4	2409+87.48	10.25	R	4.25	5.00	6.84	5.50	5.50	4.00	4.00



BISHOP ALLEN DRIVE: TABLE 2				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C3	45°00'00.00"	5.00'	3.93'	2.07'
C4	45°00'00.00"	5.00'	3.93'	2.07'
C5	45°00'00.00"	5.00'	3.93'	2.07'
C6	89°35'04.87"	14.00'	21.89'	13.90'
C7	90°49'24.70"	8.00'	12.68'	8.12'

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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No. 57459
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Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
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Client: CITY OF CAMBRIDGE, MASSACHUSETTS

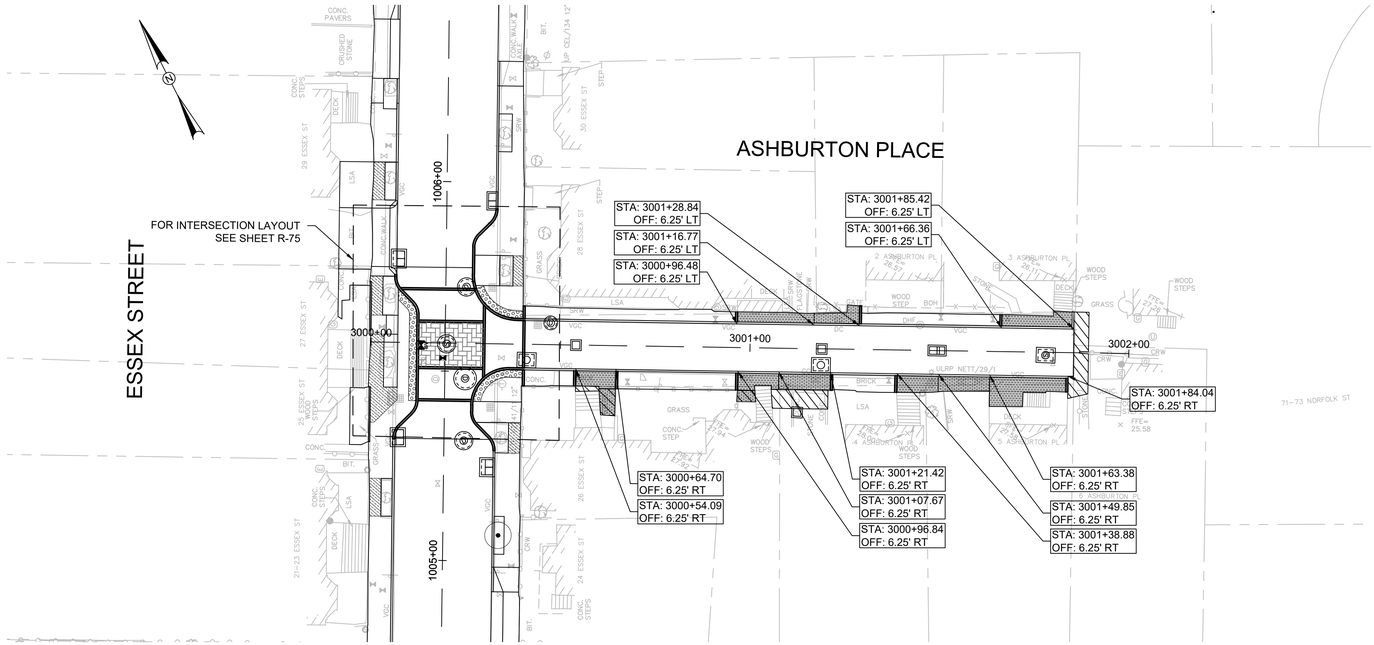
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
BISHOP ALLEN DRIVE - STA. 2400+25 TO STA. 2410+10

Sheet: R-73

File No.: 30724

Plot date: 12/5/2025 11:02:58 AM



PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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KATE E. ACKERSON
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No. 57459
REGISTERED PROFESSIONAL ENGINEER

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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

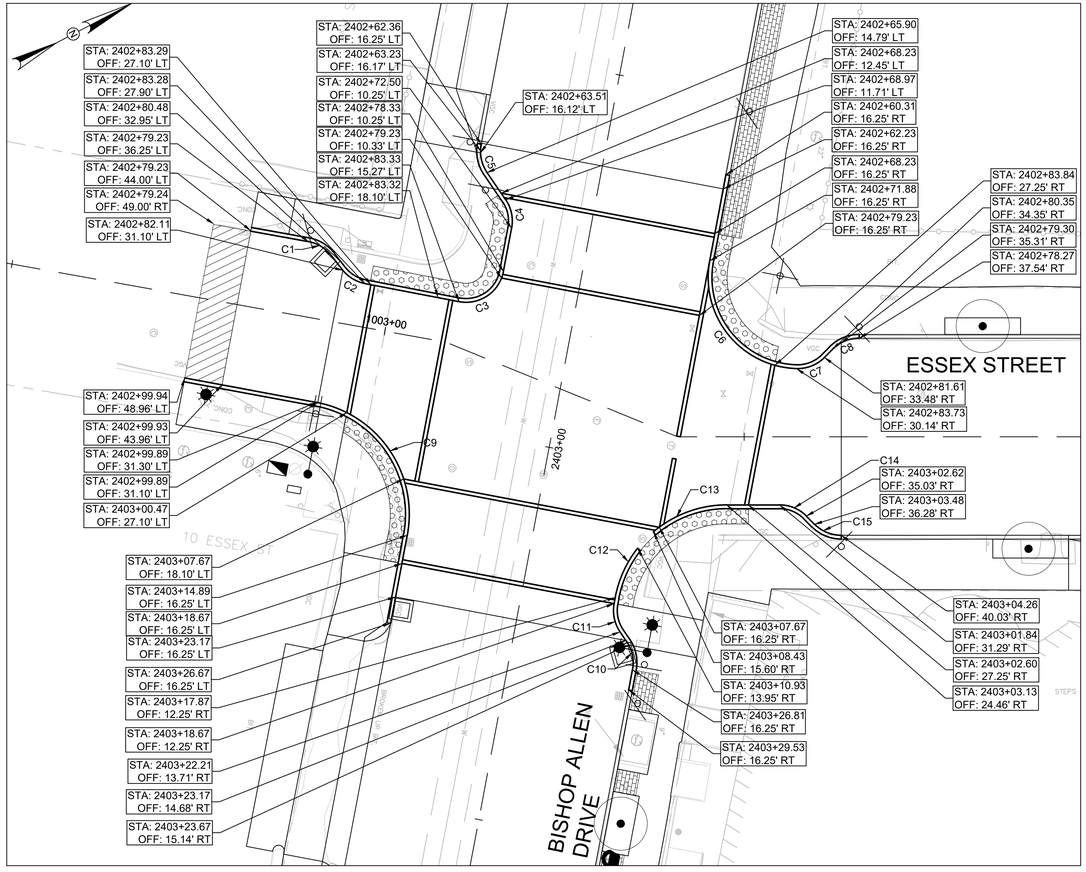
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
ASHBURTON PLACE - STA. 3000+00 TO STA. 3001+85

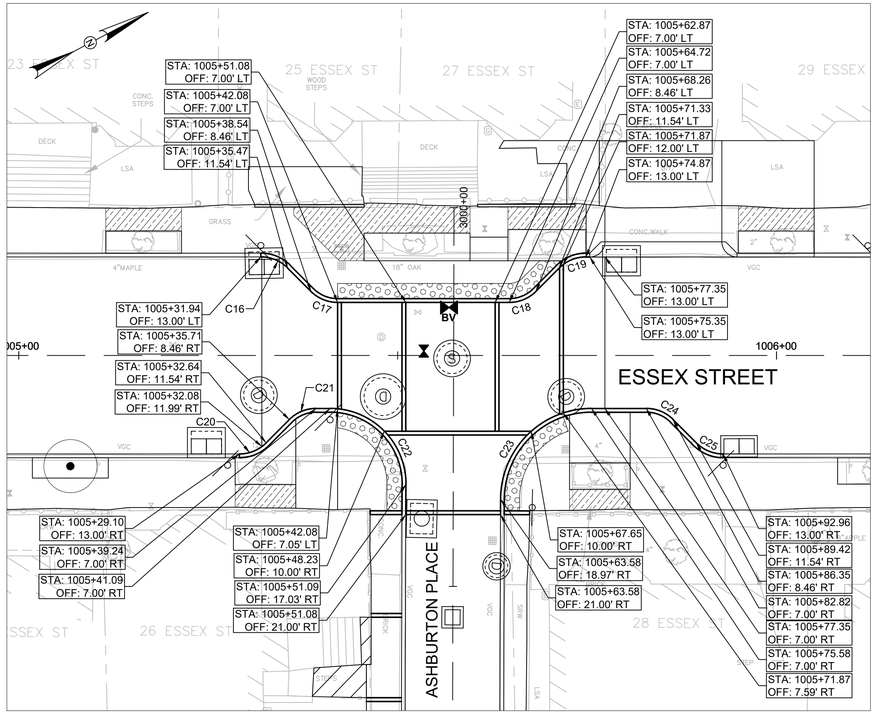
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INTERSECTION CURB TIE PLAN
ESSEX STEET AT BISHOP ALLEN DRIVE



INTERSECTION CURB TIE PLAN
ESSEX STEET AT ASHBURTON PLACE

ESSEX STREET: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	41°19'06.17"	5.00'	3.61'	1.89'
C2	41°10'43.04"	5.00'	3.59'	1.88'
C3	90°12'04.50"	5.00'	7.87'	5.02'
C4	45°00'00.00"	5.00'	3.93'	2.07'
C5	45°00'00.00"	5.00'	3.93'	2.07'
C6	99°03'45.19"	12.00'	20.75'	14.07'
C7	45°00'00.00"	5.00'	4.07'	2.16'
C8	45°00'00.00"	5.00'	3.93'	2.07'
C9	90°11'29.00"	15.00'	23.61'	15.05'
C10	45°00'00.00"	5.00'	3.93'	2.07'
C11	45°00'00.00"	5.00'	3.93'	2.07'
C12	27°32'12.21"	15.00'	7.21'	3.68'
C13	40°16'48.11"	15.00'	10.55'	5.50'

ESSEX STREET: TABLE 2				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C14	45°00'00.00"	5.00'	3.93'	2.07'
C15	45°00'00.00"	5.00'	3.93'	2.07'
C16	45°00'00.00"	5.00'	3.93'	2.07'
C17	45°00'00.00"	5.00'	3.93'	2.07'
C18	45°00'00.00"	5.00'	3.93'	2.07'
C19	45°00'00.00"	5.00'	3.93'	2.07'
C20	45°00'00.00"	5.00'	3.93'	2.07'
C21	45°00'00.00"	5.00'	3.93'	2.07'
C22	90°09'36.38"	10.00'	15.74'	10.03'
C23	89°50'23.62"	12.00'	18.82'	11.97'
C24	45°00'00.00"	5.00'	3.93'	2.07'
C25	45°00'00.00"	5.00'	3.93'	2.07'

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

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Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	KEA			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

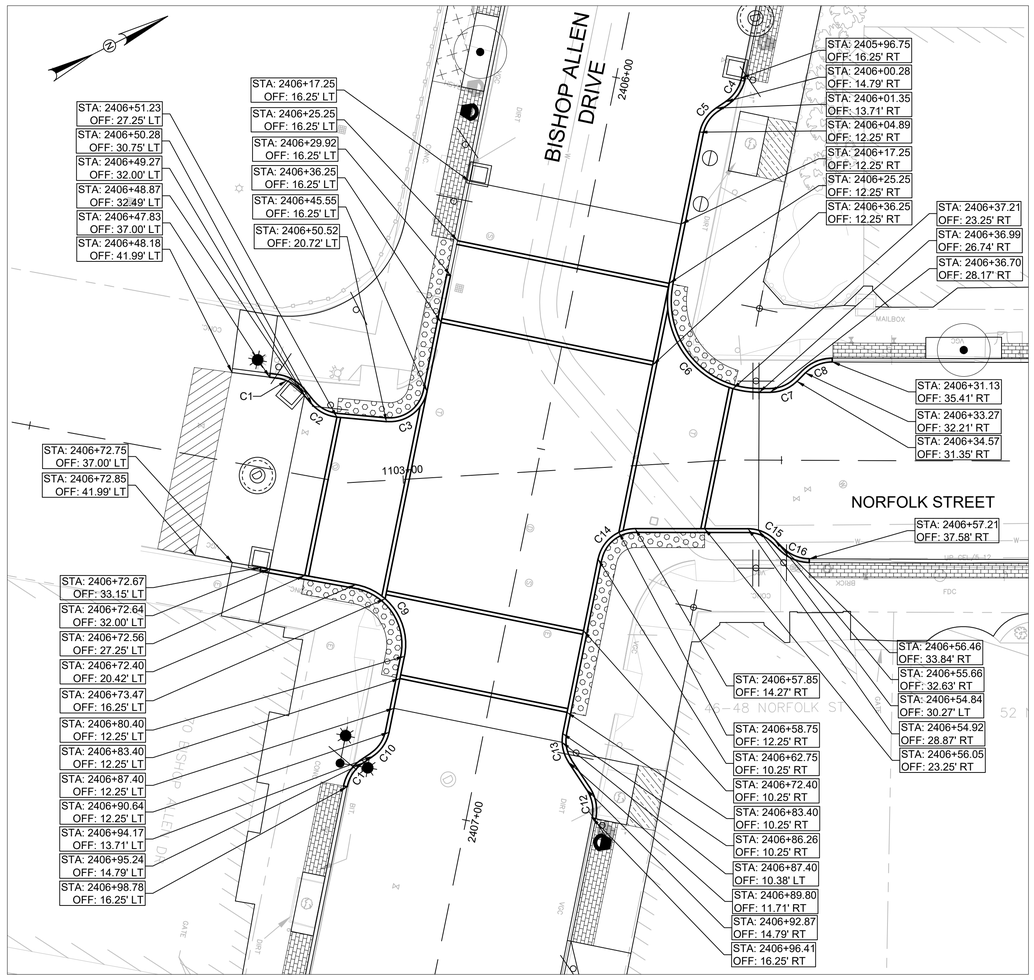
Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - ESSEX STREET

Sheet: R-75

File No.: 30724

Plot date - 12/9/2025 10:42:27 AM

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INTERSECTION CURB TIE PLAN
NORFOLK STREET AT BISHOP ALLEN DRIVE

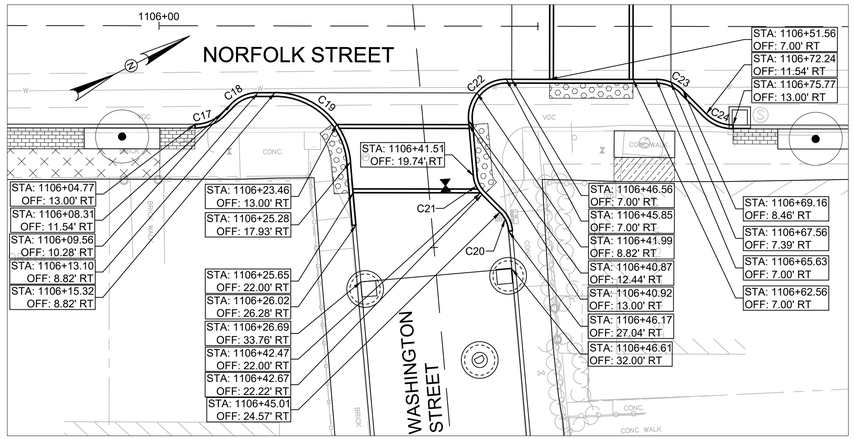
NORFOLK STREET: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	45°00'00.00"	5.00'	3.77'	1.98'
C2	45°00'00.00"	5.00'	3.95'	2.09'
C3	83°51'41.94"	5.00'	7.32'	4.49'
C4	45°00'00.00"	5.00'	3.93'	2.07'
C5	45°00'00.00"	5.00'	3.93'	2.07'
C6	101°20'58.93"	12.00'	21.23'	14.65'
C7	45°00'00.00"	5.00'	3.93'	2.07'
C8	45°00'00.00"	5.00'	3.94'	2.08'
C9	91°10'57.91"	8.00'	12.73'	8.17'
C10	45°00'00.00"	5.00'	3.93'	2.07'
C11	45°00'00.00"	5.00'	3.93'	2.07'
C12	45°00'00.00"	5.00'	3.93'	2.07'
C13	45°00'00.00"	5.00'	3.93'	2.07'

NORFOLK STREET: TABLE 2				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C14	78°39'01.07"	5.00'	6.86'	4.10'
C15	45°00'00.00"	5.00'	3.93'	2.07'
C16	45°00'00.00"	5.00'	3.91'	2.06'
C17	45°00'00.00"	5.00'	3.93'	2.07'
C18	45°00'00.00"	5.00'	3.93'	2.07'
C19	84°55'44.63"	10.00'	14.82'	9.15'
C20	39°56'35.37"	4.00'	2.79'	1.45'
C21	39°56'35.37"	4.00'	2.79'	1.45'
C22	95°03'24.63"	5.00'	8.30'	5.46'
C23	45°00'00.00"	5.00'	3.93'	2.07'
C24	45°00'00.00"	5.00'	3.93'	2.07'
C25	45°00'00.00"	5.00'	3.93'	2.07'
C26	45°00'00.00"	5.00'	3.93'	2.07'

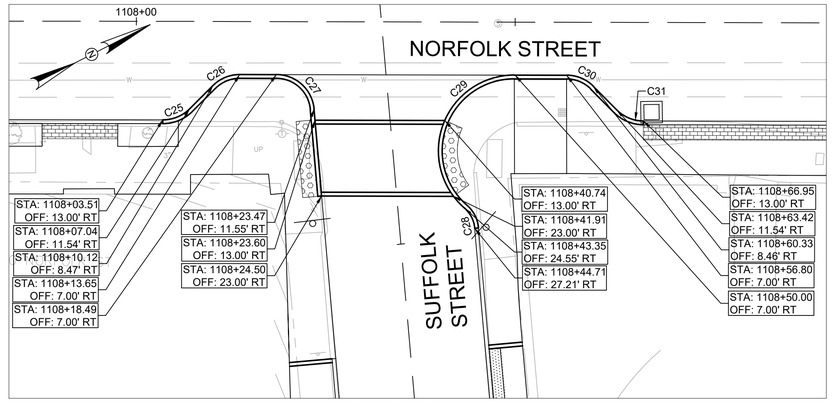
NORFOLK STREET: TABLE 3				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C27	84°52'07.81"	5.00'	7.41'	4.57'
C28	45°00'00.00"	4.00'	3.06'	1.61'
C29	139°01'36.35"	10.00'	24.26'	26.77'
C30	45°00'00.00"	5.00'	3.92'	2.07'
C31	45°00'00.00"	5.00'	3.92'	2.07'
C32	45°00'00.00"	5.00'	3.93'	2.07'
C33	45°00'00.00"	5.00'	3.93'	2.07'
C34	84°49'20.58"	12.00'	17.77'	10.96'
C35	95°13'59.51"	5.00'	8.31'	5.48'
C36	45°00'00.00"	5.00'	3.92'	2.07'
C37	45°00'00.00"	5.00'	3.93'	2.07'

PLAN
SCALE: 1" = 20'

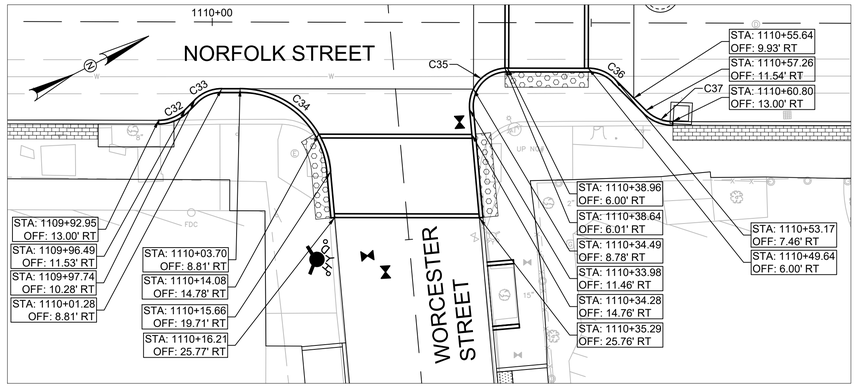
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SCALE: 1" = 10'
SCALE IN FEET



INTERSECTION CURB TIE PLAN
NORFOLK STREET AT WASHINGTON STREET



INTERSECTION CURB TIE PLAN
NORFOLK STREET AT SUFFOLK STREET



INTERSECTION CURB TIE PLAN
NORFOLK STREET AT WORCESTER STREET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

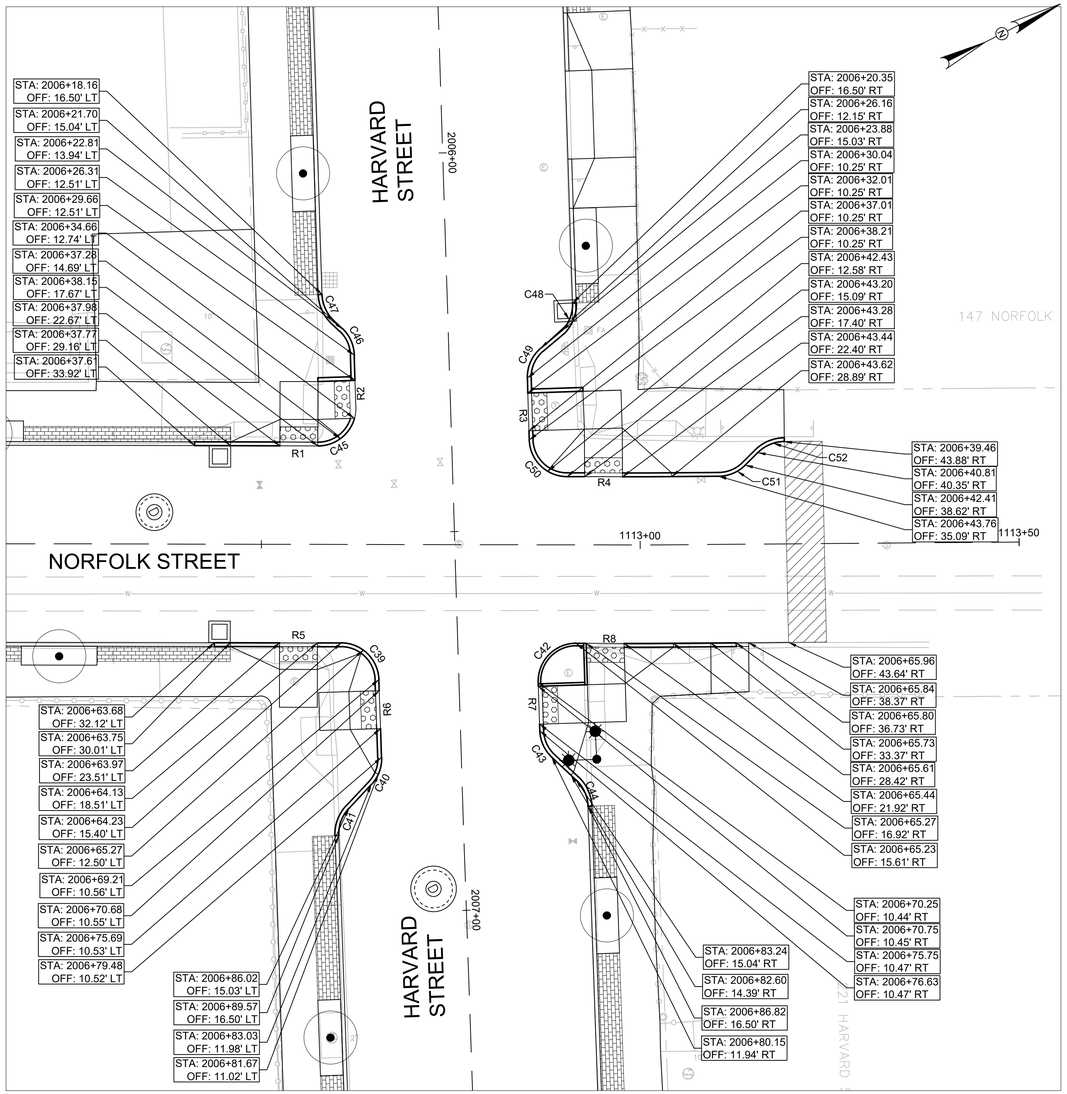
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - NORFOLK STREET (1 OF 2)

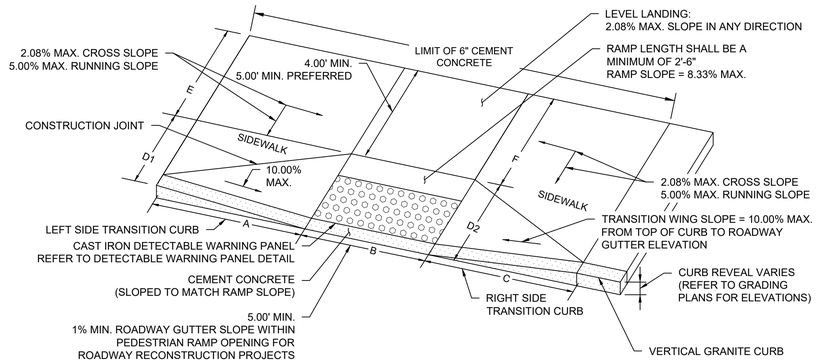
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File No.: 30724

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INTERSECTION CURB TIE PLAN
NORFOLK STREET AT HARVARD STREET



PEDESTRIAN RAMP

SCALE: NOT TO SCALE

PEDESTRIAN RAMP DATA										
	RAMP REFERENCE POINT			TRANS L	TRANS W	TRANS R	RAMP LENGTH		LANDING LENGTH	
RAMP #	STATION	OFFSET		A	B	C	D1	D2	E	F
R1	2006+38.07	20.17	R	6.50	5.00	3.16	3.50	3.50	5.00	5.00
R2	2006+32.16	12.50	R	3.33	5.00	-	4.29	4.13	5.00	5.00
R3	2006+34.53	10.25	L	-	5.00	6.23	7.29	7.31	5.02	5.00
R4	2006+43.36	19.90	L	4.97	5.00	6.50	6.27	6.43	5.00	5.00
R5	2006+64.05	21.01	R	6.25	5.00	6.50	3.50	3.50	5.00	5.00
R6	2006+73.18	10.54	R	6.06	5.00	6.02	4.00	4.00	4.00	4.00
R7	2006+73.25	10.46	L	-	5.00	8.27	6.48	6.46	5.00	5.00
R8	2006+65.36	19.42	L	6.50	5.00	-	5.31	5.47	5.00	5.00

NORFOLK STREET: TABLE 4				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C39	87°56'05.90"	5.00'	7.67'	4.82'
C40	45°00'00.00"	5.00'	3.94'	2.08'
C41	45°00'00.00"	5.00'	3.94'	2.08'
C42	92°03'54.08"	5.00'	8.03'	5.18'
C43	45°00'00.00"	5.00'	3.92'	2.06'
C44	45°00'00.00"	5.00'	3.92'	2.06'
C45	74°23'06.66"	5.00'	6.49'	3.79'
C46	45°00'00.00"	5.00'	3.93'	2.07'
C47	45°00'00.00"	5.00'	3.93'	2.07'
C48	45°00'00.00"	5.00'	3.93'	2.07'
C49	51°09'45.31"	5.00'	4.46'	2.39'
C50	88°08'59.22"	5.00'	7.69'	4.84'
C51	45°00'00.00"	5.00'	3.88'	2.04'
C52	45°00'00.00"	5.00'	3.88'	2.04'

PLAN
SCALE: 1" = 20'

0 10 20 30
SCALE: 1" = 10'
SCALE IN FEET

CONFORMED

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Stantec

KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

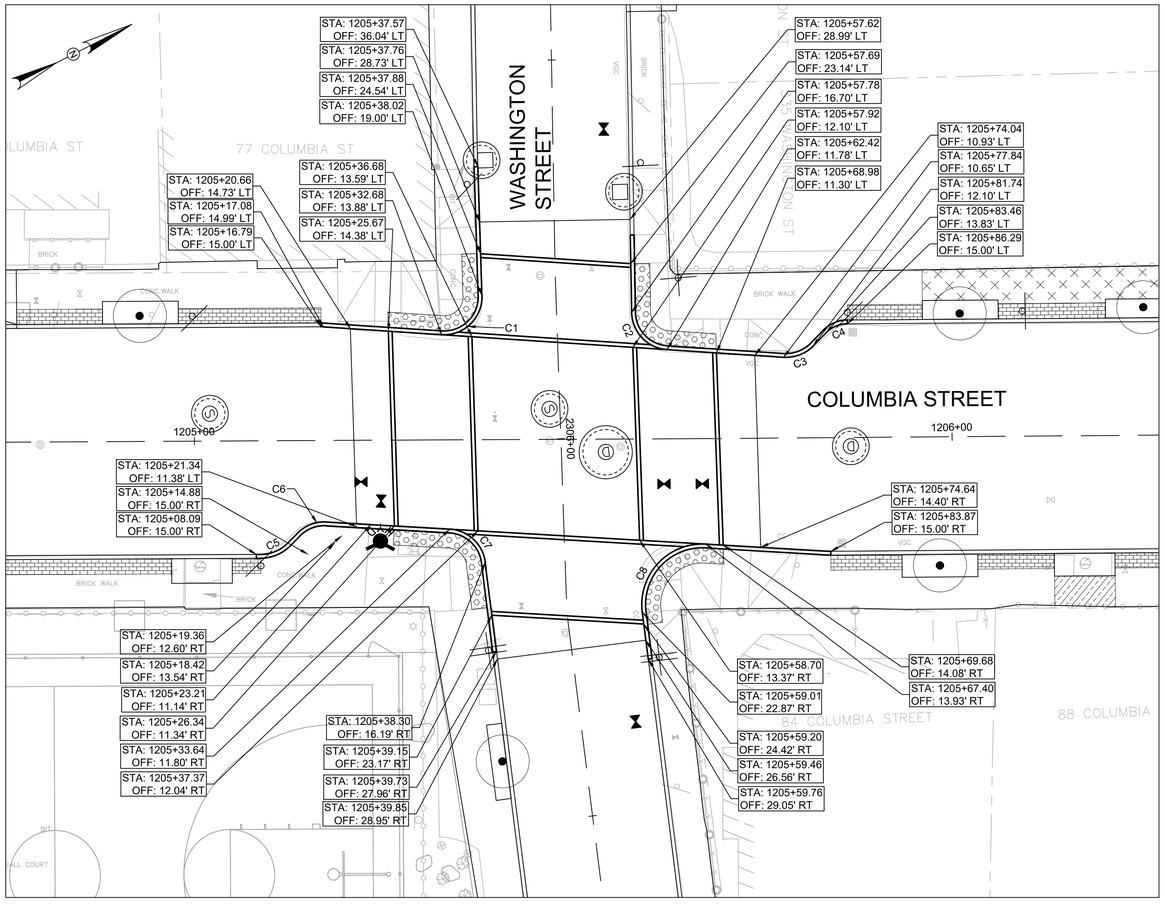
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Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - NORFOLK STREET (2 OF 2)
Sheet: R-77
File No.: 30724

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INTERSECTION CURB TIE PLAN
COLUMBIA STREET AT WASHINGTON STREET

COLUMBIA STREET: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	95°34'00.48"	5.00'	8.34'	5.51'
C2	85°13'34.28"	5.00'	7.44'	4.60'
C3	49°12'57.08"	5.00'	4.29'	2.29'
C4	45°00'00.00"	4.00'	3.14'	1.66'
C5	45°00'00.00"	5.00'	3.93'	2.07'
C6	48°38'06.74"	5.00'	4.24'	2.26'
C7	79°28'06.69"	5.00'	6.93'	4.16'
C8	100°32'06.39"	8.00'	14.04'	9.62'

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

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KATE E. ACKERSON
COMMONWEALTH OF MASSACHUSETTS
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

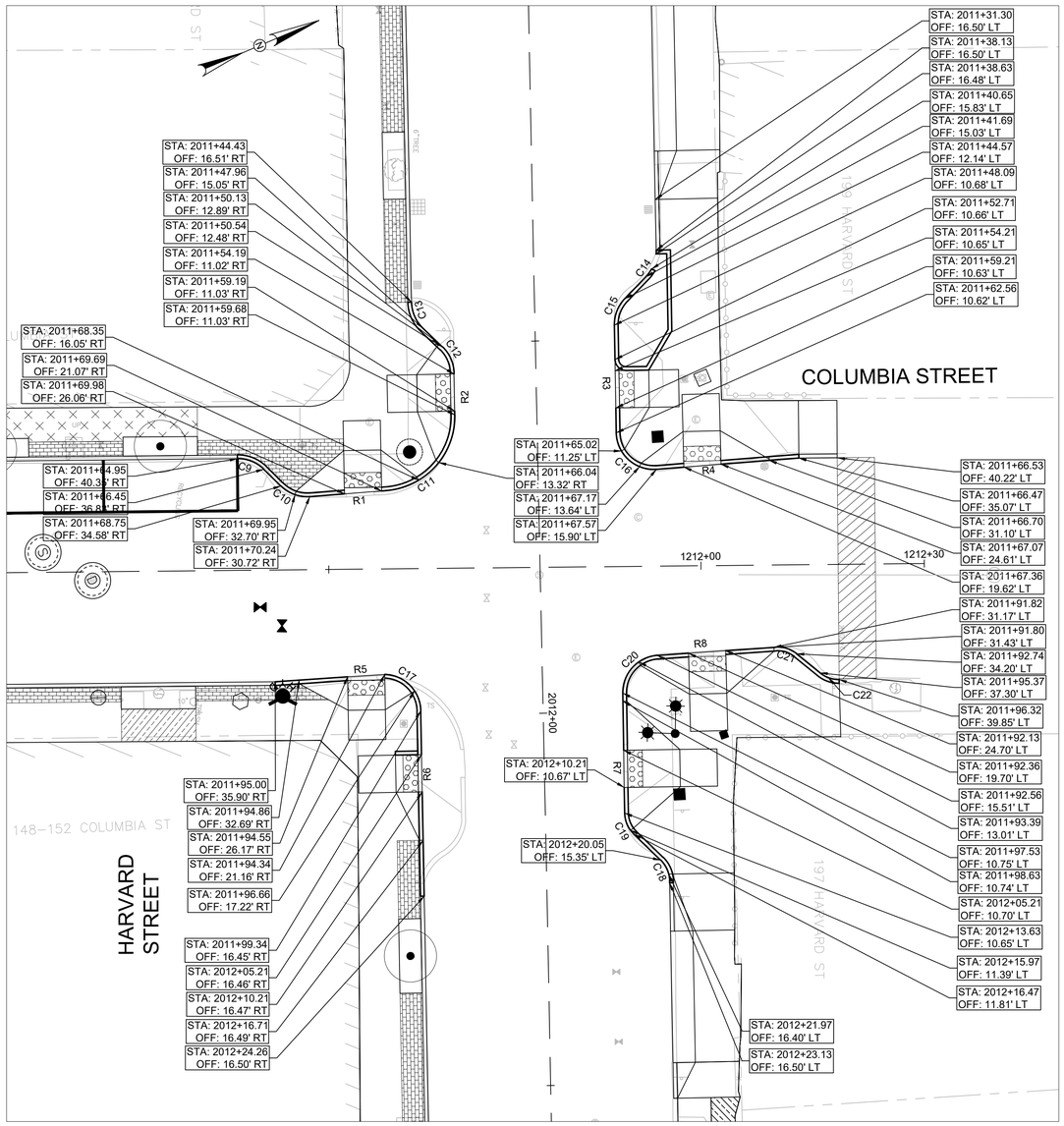
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - COLUMBIA STREET (1 OF 2)

Sheet: R-78

File No.: 30724

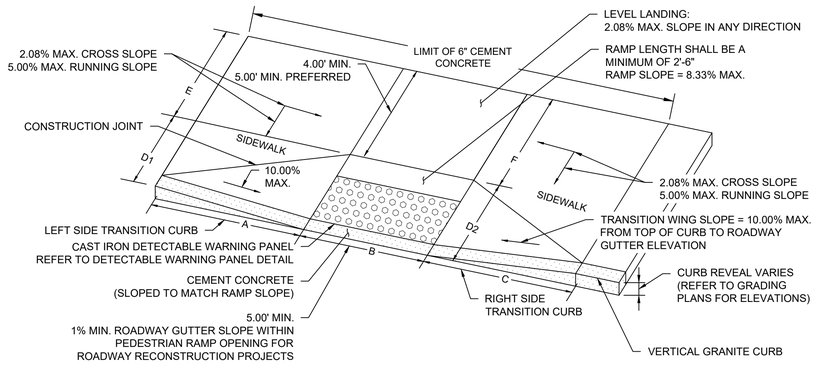
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INTERSECTION CURB TIE PLAN
COLUMBIA STREET AT HARVARD STREET

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10'
SCALE IN FEET



PEDESTRIAN RAMP
SCALE: NOT TO SCALE

COLUMBIA STREET: TABLE 2				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C9	45°00'00.00"	5.00'	3.92'	2.07'
C10	45°00'00.00"	5.00'	4.26'	2.27'
C11	86°38'26.44"	10.00'	15.12'	9.43'
C12	45°00'00.00"	5.00'	3.93'	2.07'
C13	45°00'00.00"	5.00'	3.93'	2.07'
C15	45°00'00.00"	5.00'	3.91'	2.06'
C16	93°30'43.23"	5.00'	8.16'	5.32'
C17	86°52'21.52"	5.00'	7.58'	4.73'
C18	45°00'00.00"	4.00'	3.12'	1.65'
C19	45°00'00.00"	4.00'	3.14'	1.66'
C20	86°54'43.81"	5.00'	7.58'	4.74'
C21	42°58'25.58"	4.00'	3.00'	1.57'
C22	39°34'46.34"	4.00'	2.76'	1.44'

PEDESTRIAN RAMP DATA

	RAMP REFERENCE POINT			TRANS L	TRANS W	TRANS R	RAMP LENGTH		LANDING LENGTH	
RAMP #	STATION	OFFSET		A	B	C	D1	D2	E	F
R1	2011+69.83	23.57	R	6.68	5.00	5.25	5.80	5.50	4.00	4.00
R2	2011+56.69	11.02	R	7.39	5.00	4.62	5.00	5.00	4.00	4.00
R3	2011+56.69	10.64	L	-	5.00	5.91	4.50	4.50	4.00	4.00
R4	2011+67.21	22.10	L	6.02	5.00	6.50	4.76	4.50	5.00	5.00
R5	2011+94.44	23.66	R	4.76	5.00	6.50	4.74	4.50	4.00	4.00
R6	2012+07.71	61.47	R	6.50	5.00	-	3.50	3.50	5.00	5.00
R7	2012+07.71	10.69	L	6.50	5.00	5.91	7.53	7.54	5.00	5.00
R8	2011+92.25	22.20	L	6.50	5.00	6.86	5.72	5.50	5.00	5.00

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KATE E. ACKERSON
COMMONWEALTH OF MASSACHUSETTS
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	KEA
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

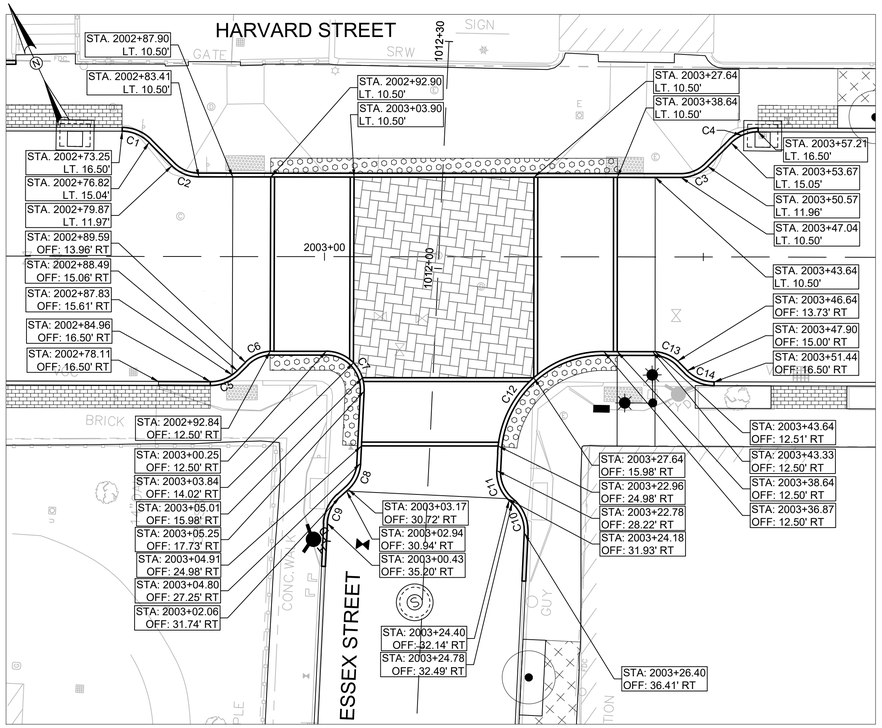
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - COLUMBIA STREET (2 OF 2)

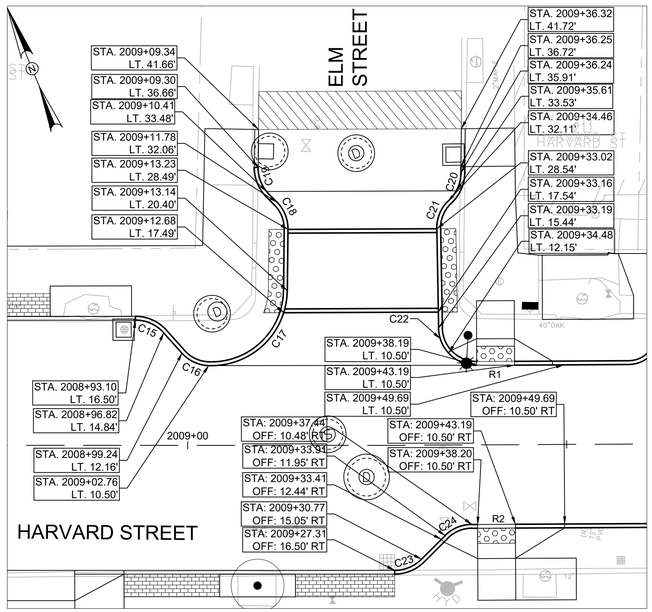
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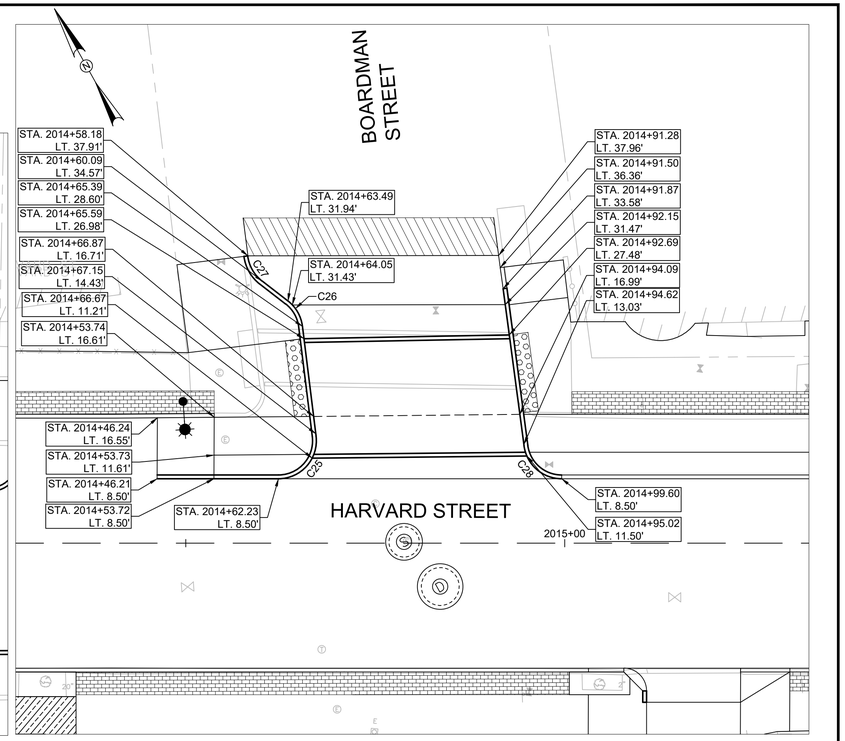
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INTERSECTION CURB TIE PLAN
HARVARD STREET AT ESSEX STREET



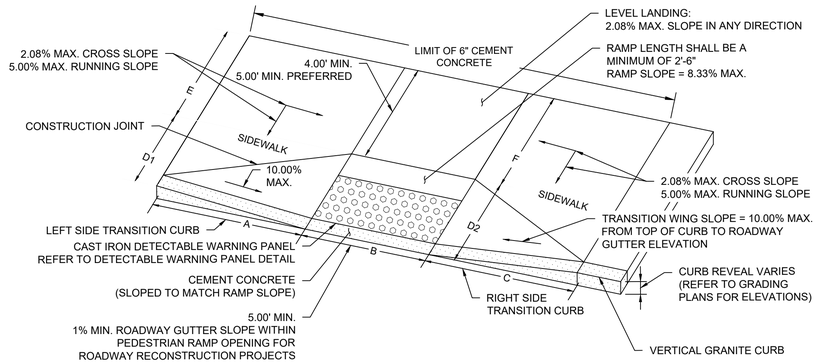
INTERSECTION CURB TIE PLAN
HARVARD STREET AT ELM STREET



INTERSECTION CURB TIE PLAN
HARVARD STREET AT BOARDMAN STREET

HARVARD STREET INTERSECTIONS: TABLE 1				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	45°00'00.00"	5.00'	3.93'	2.07'
C2	45°00'00.00"	5.00'	3.94'	2.08'
C3	45°00'00.00"	5.00'	3.92'	2.07'
C4	45°00'00.00"	5.00'	3.93'	2.07'
C5	45°00'00.00"	5.00'	3.94'	2.08'
C6	45°00'00.00"	5.00'	3.93'	2.07'
C7	92°40'12.52"	5.00'	8.09'	5.24'
C8	45°00'00.00"	5.00'	3.93'	2.07'
C9	45°00'00.00"	5.00'	3.93'	2.07'
C10	50°13'12.13"	5.00'	4.38'	2.34'
C11	50°13'12.13"	5.00'	4.38'	2.34'
C12	87°19'47.48"	14.00'	21.34'	13.36'
C13	45°00'00.00"	5.00'	3.93'	2.07'
C14	45°00'00.00"	5.00'	3.91'	2.06'
C15	48°00'43.98"	5.00'	4.19'	2.23'
C16	45°00'00.00"	5.00'	4.00'	2.11'
C17	91°34'12.21"	10.00'	15.98'	10.28'
C18	45°00'00.00"	5.00'	3.95'	2.08'
C19	45°00'00.00"	5.00'	3.93'	2.07'
C20	45°00'00.00"	5.00'	3.83'	2.01'

HARVARD STREET INTERSECTIONS: TABLE 2				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C21	45°00'00.00"	5.00'	3.95'	2.08'
C22	88°49'45.76"	5.00'	7.75'	4.90'
C23	45°00'00.00"	5.00'	3.93'	2.07'
C24	45°00'00.00"	5.00'	3.93'	2.07'
C25	45°00'00.00"	5.00'	8.47'	5.66'
C26	45°10'48.24"	5.00'	3.94'	2.08'
C27	45°10'48.24"	5.00'	3.94'	2.08'
C28	82°23'01.46"	5.00'	7.19'	4.38'



PEDESTRIAN RAMP
SCALE: NOT TO SCALE

PEDESTRIAN RAMP DATA									
	RAMP REFERENCE POINT			TRANS L	TRANS W	TRANS R	RAMP LENGTH		LANDING LENGTH	
RAMP #	STATION	OFFSET		A	B	C	D1	D2	E	F
R1	2009+40.69	10.50	L	4.18	5.00	6.50	3.50	3.50	5.00	5.00
R2	2009+40.69	10.50	R	6.50	5.00	5.38	4.50	4.50	5.50	5.50

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	MCS			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

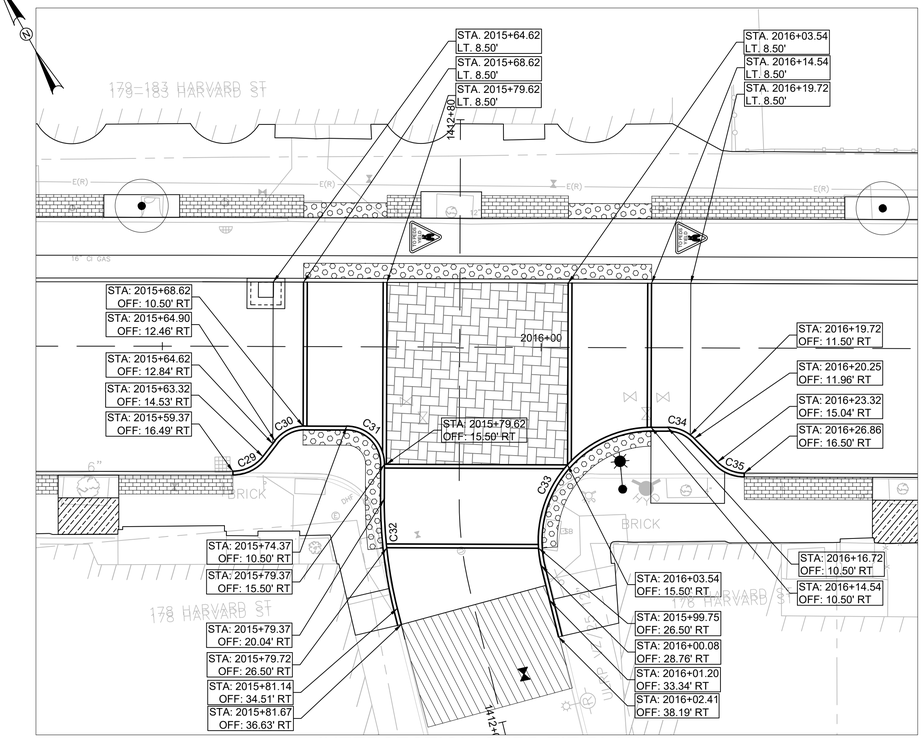
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - HARVARD STREET (1 OF 2)

Sheet: R-80

File No.: 30724

Plot date: 12/17/2025 3:46:43 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Roadway\Production Drawings\Curb Tie\Curb Tie Plan - Harvard Street Intersections.dwg LAYOUT: R-80 BY: peter garland



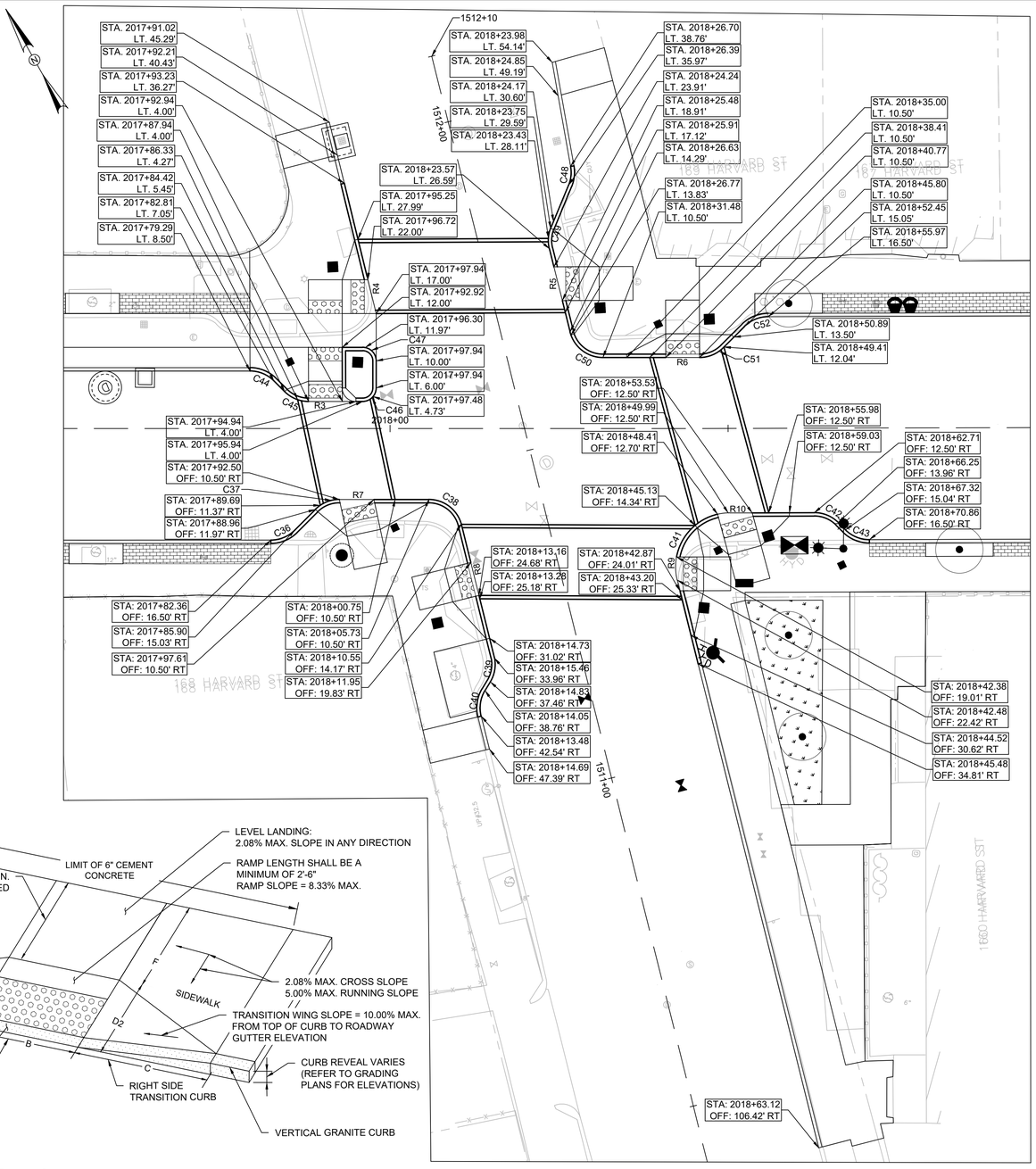
INTERSECTION CURB TIE PLAN
HARVARD STREET AT CHERRY STREET

HARVARD STREET INTERSECTIONS: TABLE 3				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C29	52°19'55.76"	5.00'	4.57'	2.46'
C30	52°29'41.95"	5.00'	4.58'	2.47'
C31	90°01'52.09"	5.00'	7.86'	5.00'
C32	13°56'54.58"	60.00'	14.61'	7.34'
C33	102°32'35.02"	15.00'	26.85'	18.70'
C34	45°00'00.00"	5.00'	3.93'	2.07'
C35	45°00'00.00"	5.00'	3.93'	2.07'
C36	45°00'00.00"	5.00'	3.93'	2.07'
C37	45°00'00.00"	5.00'	3.93'	2.07'
C38	76°04'35.90"	5.00'	6.64'	3.91'
C39	45°00'00.00"	5.00'	3.64'	1.91'
C40	45°00'00.00"	5.00'	3.93'	2.07'

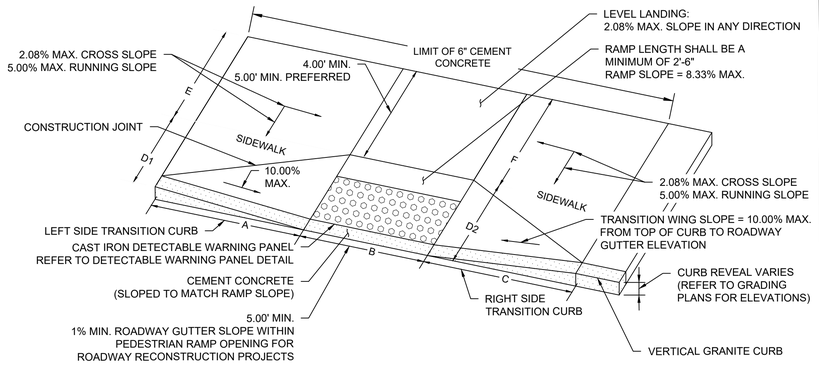
HARVARD STREET INTERSECTIONS: TABLE 4				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C41	66°20'51.58"	8.00'	9.26'	5.23'
C42	45°00'00.00"	5.00'	3.93'	2.07'
C43	45°00'00.00"	5.00'	3.93'	2.07'
C44	45°00'00.00"	5.00'	3.91'	2.06'
C45	45°00'00.00"	5.00'	3.81'	2.00'
C46	90°00'00.00"	2.00'	3.14'	2.00'
C47	90°00'00.00"	2.00'	3.14'	2.00'
C48	32°31'52.92"	5.00'	2.84'	1.46'
C49	36°29'40.02"	5.00'	3.18'	1.65'
C50	76°00'30.53"	5.00'	6.63'	3.91'
C51	45°00'00.00"	5.00'	3.90'	2.06'
C52	45°00'00.00"	5.00'	3.90'	2.06'

PEDESTRIAN RAMP DATA

	RAMP REFERENCE POINT			TRANS L	TRANS W	TRANS R	RAMP LENGTH		LANDING LENGTH	
RAMP #	STATION	OFFSET		A	B	C	D1	D2	E	F
R3	2017+90.42	4.00	LT	3.91	5.00	-	3.00	3.00	5.00	5.00
R4	2017+97.27	19.75	LT	-	5.00	6.17	5.02	3.80	5.00	5.00
R5	2018+24.86	21.42	LT	5.82	5.00	5.25	6.67	5.45	5.00	5.00
R6	2018+43.27	10.50	LT	5.77	5.00	6.11	3.50	3.50	5.00	5.00
R7	2017+95.06	10.50	RT	8.16	5.00	3.93	4.50	5.58	5.00	5.00
R8	2018+12.55	22.25	RT	6.54	5.00	5.83	4.00	4.00	5.00	5.00
R9	2018+42.31	21.49	RT	5.53	5.00	6.82	4.00	3.52	4.00	4.00
R10	2018+51.25	12.50	RT	5.50	5.00	3.74	5.02	6.15	5.00	5.00



INTERSECTION GRADING PLAN
HARVARD STREET AT WINDSOR STREET



PEDESTRIAN RAMP
SCALE: NOT TO SCALE

PLAN
SCALE: 1" = 10'

0 10 20 30
SCALE: 1" = 10' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - CURB TIE PLAN
INTERSECTION CURB TIE - HARVARD STREET (2 OF 2)

Sheet: R-81

File No.: 30724

Plot date: 12/17/2025 3:46:43 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infrastructure\Working\Drawings\Roadway\Production Drawings\Curb Tie\Curb Tie Plan - Harvard Street Intersections.dwg LAYOUT: R-81 BY: peter.garland

ID #	SIZE OF SIGN (IN)		SIGN	TEXT DIMENSIONS			NUMBERS OF SIGNS REQUIRED	COLOR			POST SIZE	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R1-1	30	30		SEE 2023 MUTCD			31	SEE 2023 MUTCD			P5-1	6.25	193.75
R2-1(20)	24	30					2				P5-1	5.00	10.00
R3-7bP	24	12					14				P5-1 MOUNT W/ R6-2L AND R6-2R	2.00	28.00
R5-1	30	30					31				P5-1 MOUNT WITH R1-1, R6-1 MOUNT W/ D3-21	6.25	193.75
R5-2	30	30					1				P5-1	6.25	6.25
R6-1 (PBS)	36	12					34				P5-1 MOUNT W/ R1-1 AND R5-1	3.00	102.00
R6-2R	24	30					3				P5-1 MOUNT W/ SP-3 MOUNT W/ D3-14 AND D3-5 MOUNT W/ D3-18 AND D3-21	5.00	15.00
R6-2L	24	30					7				P5-1 MOUNT W/ R6-2R MOUNT W/ D3-16 AND D3-23	5.00	35.00
R7-21aPa	12	18					2					1.50	3.00
R7-21aPb	12	18					11					1.50	16.50
R7-108aR	12	18					3				P5-1 MOUNT W/ CT-390a MOUNT W/ CT-210bLA	1.50	4.50
R7-108aL	12	18					4				P5-1 MOUNT W/ CT-210bRA MOUNT W/ CT-390a AND CT-800RA	1.50	6.00
R7-108cD	12	18					1				P5-1 MOUNT WITH CT-199, CT-390a MOUNT W/ CT-390b	1.50	1.50
R7-108cR	12	18					10				P5-1 MOUNT WITH CT-210aDA	1.50	15.00
R7-108cL	12	18					12				P5-1 MOUNT WITH CT-199, CT-390a, CT-390b	1.50	18.00
R10-11b	24	24					2				P5-1 MOUNT WITH R5-1 AND R6-1	4.00	8.00
EV-1	12	18					3				P5-1	1.50	4.50
EV-2	12	18					4				P5-1	1.50	6.00
EV-2RA	12	18					1				P5-1	1.50	1.50
EV-2LA	12	18					1				P5-1	1.50	1.50
												TOTAL THIS SHEET	669.75

NOTES:
1. THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 11TH EDITION (DECEMBER 2023), THE 1996 "MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS" (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), CITY OF CAMBRIDGE SPECIFICATIONS, AND ALL AMENDMENTS WILL GOVERN.
2. PROPOSED STOP AND YIELD SIGNS ARE SUBJECT TO FIELD INVESTIGATION BY THE CITY OF CAMBRIDGE TO JUSTIFY WARRANTS PRIOR TO INSTALLATION.
3. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS.
4. PARKING SIGNS SHALL BE MOUNTED 45° TO CURB FACE, REGULATORY AND WARNING SIGN SHALL BE MOUNTED 90° TO CURB FACE.
5. PBS = PBS = PRINT BOTH SIDES

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	MCS			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

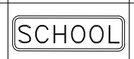
Drawing: TRAFFIC GENERAL
TRAFFIC SIGN SUMMARY - 1 OF 4

Sheet: TG-1

File No.: 30724

Plot date: 4/7/2026 10:49:19 AM
CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Inf\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - Sign Summary.dwg LAYOUT: TG-1 BY: peter garland

ID #	SIZE OF SIGN (IN)		SIGN	TEXT DIMENSIONS			NUMBERS OF SIGNS REQUIRED	COLOR			POST SIZE	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
D3-1	30	9	ASHBURTON PL	SEE 2023 MUTCD			1	SEE 2023 MUTCD			P5-1(1)	1.88	1.88
D3-2	30	9	BISHOP ALLEN DR				3				P5-1(3) MOUNT W/ D3-11(1), D3-14(1), D3-16(1)	1.88	5.63
D3-3	30	9	BOARDMAN ST				1				P5-1	1.88	1.88
D3-4	30	9	CHERRY ST				2				P5-1(5) MOUNT W/ D3-14(1), D3-19(1), D3-9(1), D3-21(1)	1.88	3.75
D3-5	30	9	COLUMBIA ST				6				P5-1(4) MOUNT W/ D3-23(1), D3-13(1), D3-21(2)	1.88	11.25
D3-7	24	9	DAVIS ST				1				P5-1(1) MOUNT W/ D3-13	1.50	1.50
D3-8	24	9	EATON ST				1				P5-1(2) MOUNT W/ D3-18 (1), D3-5(1)	1.50	1.50
D3-9	24	9	ELM ST				1				P5-1	1.50	1.50
D3-10	24	9	ESSEX ST				2				P5-1 MOUNT W/ D3-2(1) MOUNT W/ D3-13,R1-1 ,R5-1(1)	1.50	3.00
D3-11	24	9	FISKE PL				1				P5-1	1.50	1.50
D3-12	30	9	HARVARD ST				8				P5-1(5)	1.88	15.00
D3-13	24	9	MOORE ST				1				P5-1	1.50	1.50
D3-14	24	9	NORFOLK PL PRIVATE WAY				1				P5-1	1.50	1.50
D3-15	30	9	NORFOLK ST				6				P5-1 (x) MOUNT W/ D3-13 (1), D3-23(1)	1.88	11.25
D3-16	24	9	NORFOLK TERR PRIVATE WAY				1				P5-1	1.50	1.50
D3-17	24	9	PINE ST				2				P5-1(4) MOUNT W/ R5-1(1), D3-21(1), R6-1 AND CT-390a(1)	1.50	3.00
D3-18	30	9	PORTLAND ST				1				P5-1	1.88	1.88
D3-19	30	9	SCOUTING WAY				1				P5-1	1.88	1.88
D3-20	30	9	SUFFOLK ST				2				P5-1(2) MOUNT W/ D3-16 (1)	1.88	3.75
D3-21	30	9	WASHINGTON ST				3				P5-1(6)	1.88	5.63
D3-22	24	9	WINDSOR ST				1				P5-1(2) MOUNT W/ D3-13 (1), D3-21(1)	1.50	1.50
D3-23	30	9	WORCESTER ST				3				P5-1 (4)	1.88	5.63
												TOTAL	87.38

ID #	SIZE OF SIGN (IN)		SIGN	TEXT DIMENSIONS			NUMBERS OF SIGNS REQUIRED	COLOR			POST SIZE	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
M6-4	24	12		SEE 2023 MUTCD			1	SEE 2023 MUTCD			P5-1 MOUNT W/ R5-2	2.00	2.00
OM3-R	12	36					4				P5-1	3.00	12.00
S1-1	18	18					4				P5-1	2.25	9.00
S4-2P	24	12					1				P5-1	2.00	2.00
S4-3P	24	9					1				P5-1	1.50	1.50
S5-2	24	24					1				P5-1	4.00	4.00
SP-1	24	42		SEE MASSDOT STANDARD SIGN MA-R2-8			1	SEE MASSDOT STANDARD SIGN MA=R2-8			P5-1	7.00	7.00
SP-3	12	18					2				P5-1 MOUNT W/ D3-16 & D3-13(1)	1.50	3.00
SP-4	30	30					1				P5-1	6.25	6.25
W1-4L	30	30		SEE 2023 MUTCD			1	SEE 2023 MUTCD			P5-1	6.25	6.25
W1-4R	30	30					1				P5-1	6.25	6.25
W11-2	30	30					16				P5-1	6.25	100.00
W13-1P	18	18					1				P5-1	2.25	2.25
W15-1	30	30					2				P5-1	6.25	12.50
W16-7PR	21	15					5				P5-1	2.19	10.94
W16-7PL	21	15					17				P5-1	2.19	37.23
												TOTAL THIS SHEET	309.88

NOTES:
1. THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 11TH EDITION (DECEMBER 2023), THE 1996 "MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS" (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), CITY OF CAMBRIDGE SPECIFICATIONS, AND ALL AMENDMENTS WILL GOVERN.
2. PROPOSED STOP AND YIELD SIGNS ARE SUBJECT TO FIELD INVESTIGATION BY THE CITY OF CAMBRIDGE TO JUSTIFY WARRANTS PRIOR TO INSTALLATION.
3. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS.
4. PARKING SIGNS SHALL BE MOUNTED 45° TO CURB FACE, REGULATORY AND WARNING SIGN SHALL BE MOUNTED 90° TO CURB FACE.
5. PBS = PRINT BOTH SIDES
6. CONTRACTOR SHALL COORDINATE WITH MBTA TO OBTAIN CUSTOM MADE MBTA BUS STOP SIGNAGE. (REFER TO R7-107 SERIES SIGNS).

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: TRAFFIC GENERAL
TRAFFIC SIGN SUMMARY - 2 OF 4

Sheet: TG-2

File No.: 30724

Plot date: 4/7/2026 10:49:19 AM

O&D FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - Sign Summary.dwg LAYOUT: TG-2 BY: peter garland

ID #	SIZE OF SIGN (IN)		SIGN	TEXT DIMENSIONS			NUMBERS OF SIGNS REQUIRED	COLOR			POST SIZE	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
CT-110DA	12	18	TOW ZONE NO STOPPING ANYTIME	SEE CITY OF CAMBRIDGE STANDARDS			24	SEE CITY OF CAMBRIDGE STANDARDS			P5-1	1.50	36.00
CT-110aLA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST TUESDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / TOW ZONE NO STOPPING ANYTIME				1				P5-1	3.00	3.00
CT-110LA	12	18	TOW ZONE NO STOPPING ANYTIME				7				P5-1 MOUNT W/ CT-210bRA CT-210aRA	1.50	10.50
CT-110RA	12	18	TOW ZONE NO STOPPING ANYTIME				8				P5-1 MOUNT W/ CT-210bLA CT-210aLA	1.50	12.00
CT-150DA	12	18	TOW ZONE NO PARKING				7				P5-1 MOUNT W/ CT-199	1.50	10.50
CT-150LA	12	18	TOW ZONE NO PARKING				3				P5-1 MOUNT W/ CT-210aLA CT-210bLA	1.50	4.50
CT-150RA	12	18	TOW ZONE NO PARKING				5				P5-1 MOUNT W/ CT-210aRA CT-210bRA	1.50	7.50
CT-180DA	12	18	TOW ZONE NO STOPPING FIRE LANE				1				P5-1	1.50	1.50
CT-180LA	12	18	TOW ZONE NO STOPPING FIRE LANE				1				P5-1 MOUNT W/ CT-210bRA	1.50	1.50
CT-180RA	12	18	TOW ZONE NO STOPPING FIRE LANE				1				P5-1 MOUNT W/ CT-210bLA	1.50	1.50
CT-199	12	18	TOW ZONE NO PARKING DURING SNOW EMERGENCY				9				P5-1	1.50	13.50
CT-200bLA	12	18	PARKING BY PERMIT ONLY EXCEPT SUNDAYS				1				P5-1 MOUNT W/ CT-150RA CT-390a	1.50	1.50
CT-200bRA	12	18	PARKING BY PERMIT ONLY EXCEPT SUNDAYS				1				P5-1 MOUNT W/ CT-390a & R7-108cL	1.50	1.50
CT-210aDA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST TUESDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / PARKING BY PERMIT ONLY EXCEPT SUNDAYS				15				P5-1	3.00	45.00
CT-210aLA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST MONDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / PARKING BY PERMIT ONLY EXCEPT SUNDAYS				21				P5-1	3.00	63.00
CT-210aRA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST MONDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / PARKING BY PERMIT ONLY EXCEPT SUNDAYS				18				P5-1	3.00	54.00
CT-210bDA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST TUESDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / PARKING BY PERMIT ONLY EXCEPT SUNDAYS				12				P5-1	3.00	36.00
CT-210bLA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST TUESDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / PARKING BY PERMIT ONLY EXCEPT SUNDAYS				23				P5-1	3.00	69.00
CT-210bRA	24	18	TOW ZONE NO PARKING STREET CLEANING 8AM TO 2PM 1ST TUESDAY EACH MONTH APRIL 1ST TO DEC. 31ST EXCEPT HOLIDAYS / PARKING BY PERMIT ONLY EXCEPT SUNDAYS				23				P5-1	3.00	69.00
												TOTAL THIS SHEET	441.00

NOTES:

1. THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 11TH EDITION (DECEMBER 2023), THE 1996 "MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS" (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), CITY OF CAMBRIDGE SPECIFICATIONS, AND ALL AMENDMENTS WILL GOVERN.
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3. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS.
4. PARKING SIGNS SHALL BE MOUNTED 45° TO CURB FACE, REGULATORY AND WARNING SIGN SHALL BE MOUNTED 90° TO CURB FACE.
5. PBS = PRINT BOTH SIDES
6. CONTRACTOR SHALL COORDINATE WITH MBTA TO OBTAIN CUSTOM MADE MBTA BUS STOP SIGNAGE. (REFER TO R7-107 SERIES SIGNS).

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	MCS			
Drawn by	MCS			
Checked by	BMS	No.	Description	Date
Approved by	KEA	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: TRAFFIC GENERAL
TRAFFIC SIGN SUMMARY - 3 OF 4

Sheet: TG-3

File No.: 30724

Plot date: 4/7/2026 10:49:19 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic- Sign Summary.dwg LAYOUT: TG-3 BY: peter garland

ID #	SIZE OF SIGN (IN)		SIGN	TEXT DIMENSIONS			NUMBERS OF SIGNS REQUIRED	COLOR			POST SIZE	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
CT-300aLA	12	18		SEE CITY OF CAMBRIDGE STANDARDS			3	SEE CITY OF CAMBRIDGE STANDARDS			P5-1	1.50	4.50
CT-300aRA	12	18					3				P5-1	1.50	4.50
CT-300bDA	12	18					1				P5-1	1.50	1.50
CT-300bLA	12	18					3				P5-1	1.50	4.50
CT-300bRA	12	18					3				P5-1	1.50	4.50
CT-300dLA	12	18					2				P5-1	1.50	3.00
CT-300dRA	12	18					1				P5-1	1.50	1.50
CT-300fLA	12	18					1				P5-1	1.50	1.50
CT-300fRA	12	18					1				P5-1	1.50	1.50
CT-390a	12	18					14				P5-1	1.50	21.00
CT-390b	12	18					7				P5-1	1.50	10.50
CT-800DA	12	18					1				P5-1	1.50	1.50
CT-800LA	12	18					5				P5-1 MOUNT W/ CT-210aLA, CT-210bLA, CT-150RA	1.50	7.50
CT-800RA	12	18					5				P5-1 MOUNT W/ CT-210aRA CT-210bRA CT-150LA	1.50	7.50
												TOTAL THIS SHEET	75.00

NOTES:

1. THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 11TH EDITION (DECEMBER 2023), THE 1996 "MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS" (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), CITY OF CAMBRIDGE SPECIFICATIONS, AND ALL AMENDMENTS WILL GOVERN.
2. PROPOSED STOP AND YIELD SIGNS ARE SUBJECT TO FIELD INVESTIGATION BY THE CITY OF CAMBRIDGE TO JUSTIFY WARRANTS PRIOR TO INSTALLATION.
3. HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS.
4. PARKING SIGNS SHALL BE MOUNTED 45° TO CURB FACE, REGULATORY AND WARNING SIGN SHALL BE MOUNTED 90° TO CURB FACE.
5. PBS = PRINT BOTH SIDES
6. CONTRACTOR SHALL COORDINATE WITH MBTA TO OBTAIN CUSTOM MADE MBTA BUS STOP SIGNAGE. (REFER TO R7-107 SERIES SIGNS).

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

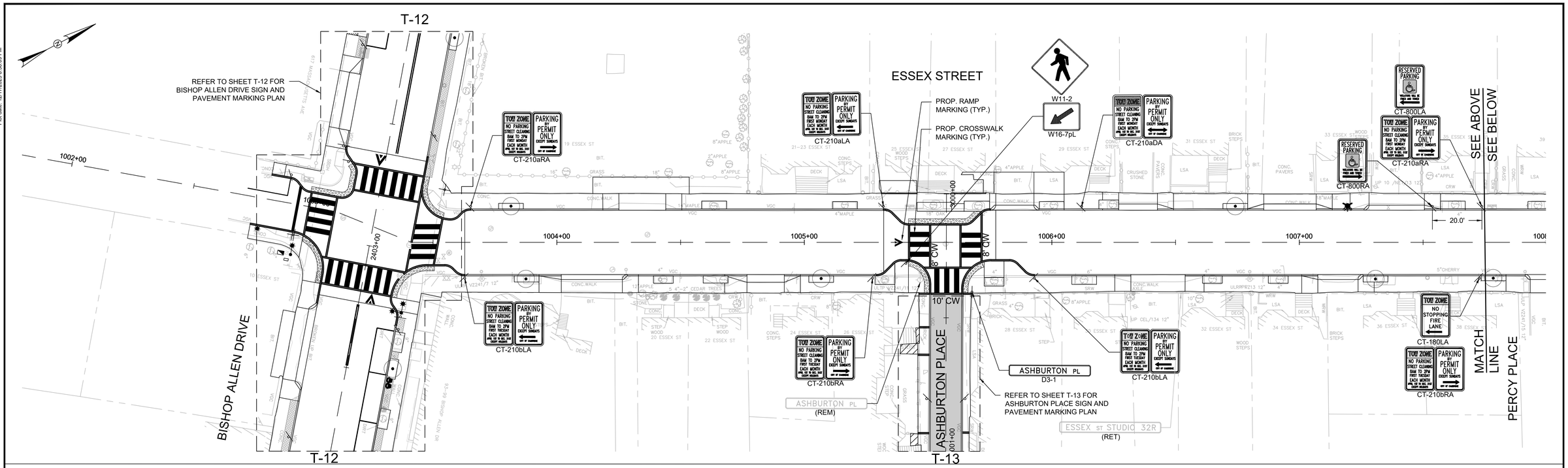
Drawing: TRAFFIC GENERAL
TRAFFIC SIGN SUMMARY - 4 OF 4

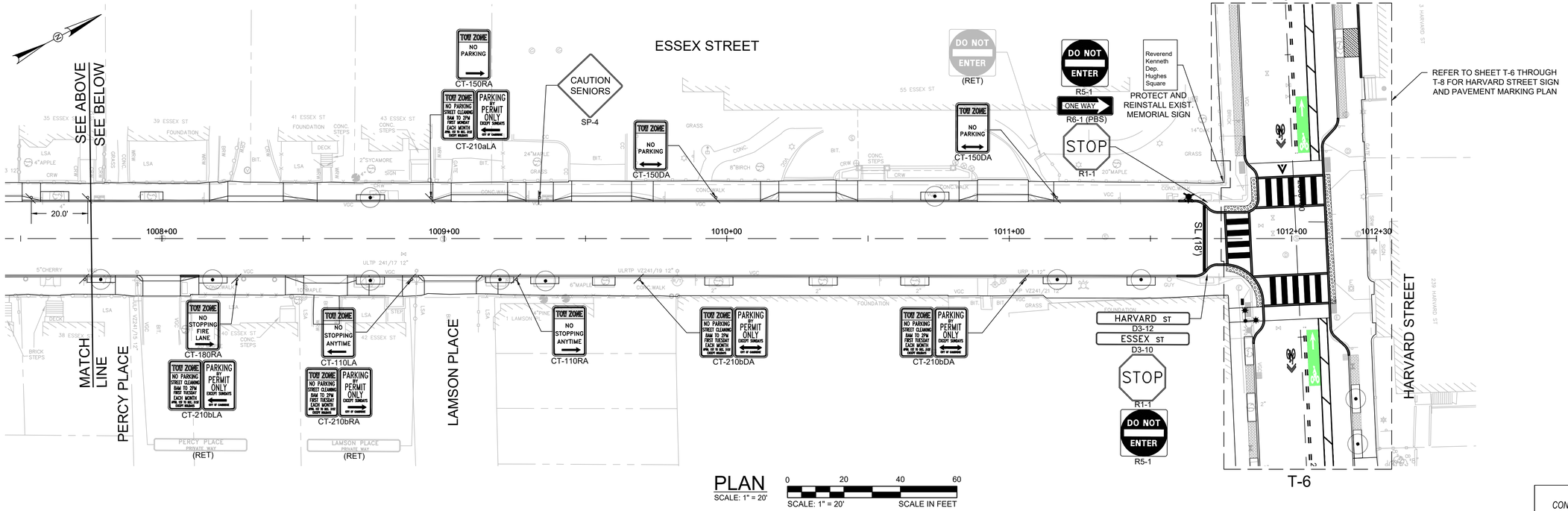
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File No.: 30724

Plot date: 4/7/2026 10:49:16 AM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic- Sign Summary.dwg LAYOUT: TG-4 BY: peter garland

Plot date: 12/17/2025 8:38:09 PM





PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

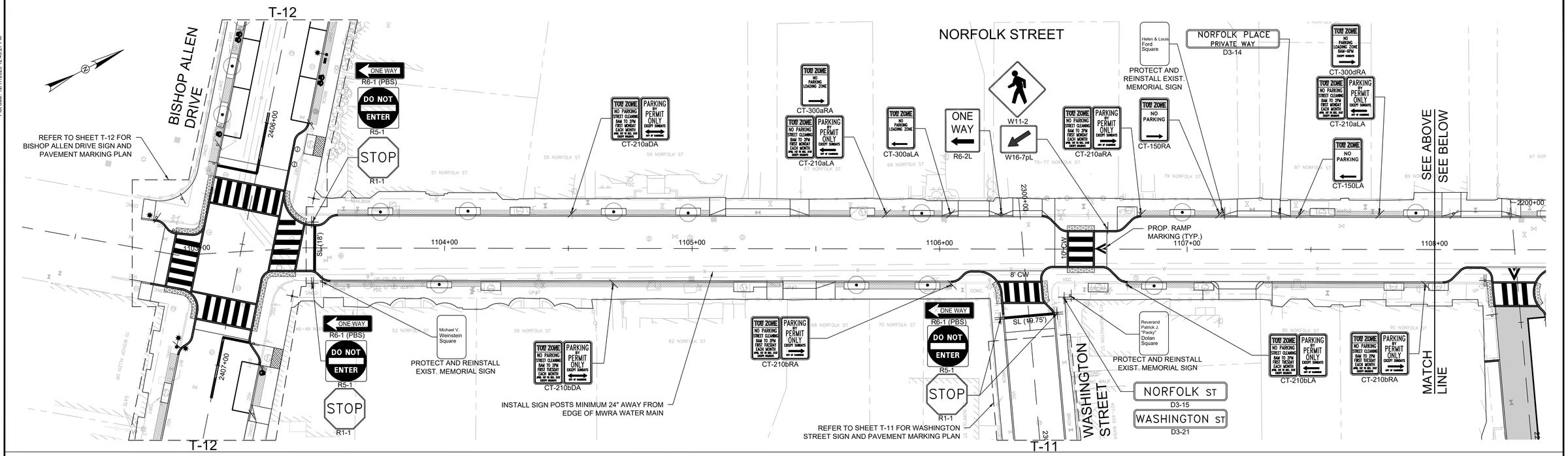
Drawing: ROADWAY - SIGN & PAVEMENT MARKING ESSEX STREET STA. 1002+75 TO STA. 1012+30

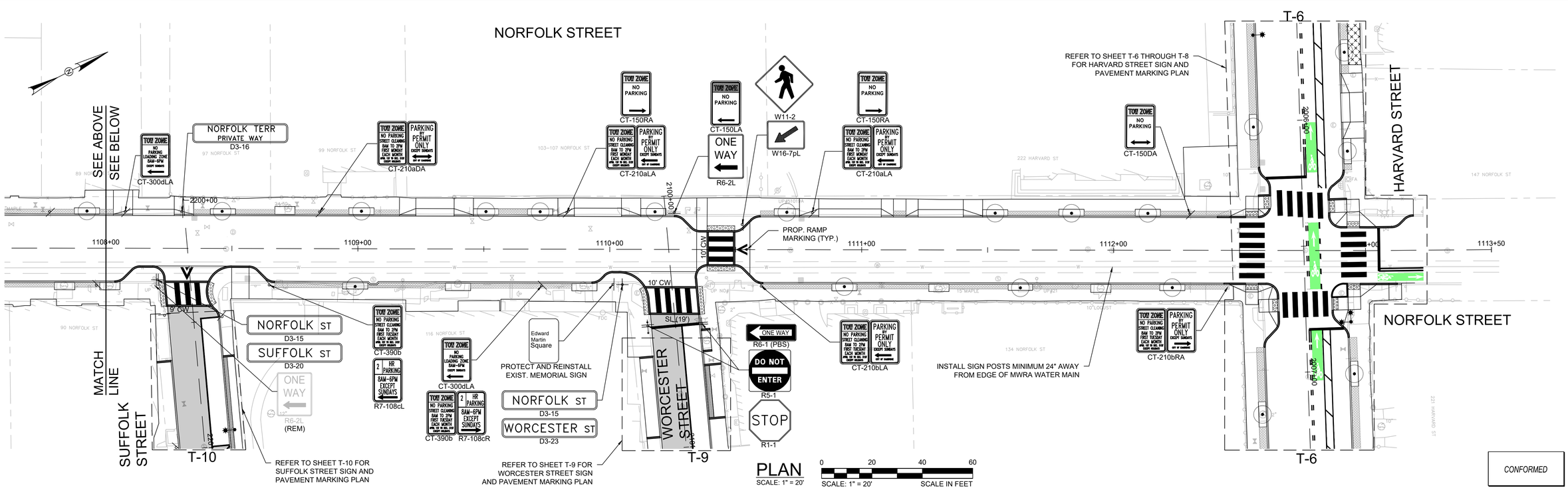
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File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic- ESSEX STREET.dwg LAYOUT: T-1 BY: peter garland

Plot date: 12/17/2025 12:43:27 PM





PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING NORFOLK STREET STA. 1102+67 TO STA. 1113+50

Sheet: T-2

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034-009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - Norfolk Street.dwg LAYOUT: T-2 BY: peter garland

Plot date: 12/17/2025 3:11:34 PM

COLUMBIA STREET

BISHOP ALLEN DRIVE

COLUMBIA STREET

STOP
RET

TOW ZONE
NO STOPPING ANYTIME
CT-110DA

DONA MARTA MORALES SQUARE

PROTECT AND REINSTALL EXIST. MEMORIAL SIGN

COLUMBIA TERR
(RET)

W11-2
W16-7pL

PETER RENZ WAY
R&R

SEE ABOVE
SEE BELOW

2412+00
2413+00
1200+00
1201+00
1202+00
1203+00
1204+00
1205+00

SWEL (252')
DBYL (252')
SI (111')
SWEL (143')
DBYL (143')
SWEL (7')
SWEL (74')
20.0'
18.0'
18.0'
18.0'
7.0'
40.0'

PROP. RAMP MARKING (TYP.)

12'CW

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210bDA

RESERVED PARKING
CT-800LA

RESERVED PARKING
CT-800RA

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
TOW ZONE
NO STOPPING ANYTIME
CT-110aLA

CLEMENT MORGAN PARK

ACCESSIBLE
USE LAST
EV-1

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
RESERVED PARKING
ELECTRIC VEHICLE CHARGING ONLY
PARKING BY PERMIT ONLY
EV-2LA

RESERVED PARKING
ELECTRIC VEHICLE CHARGING ONLY
PARKING BY PERMIT ONLY
EV-2

RESERVED PARKING
ELECTRIC VEHICLE CHARGING ONLY
PARKING BY PERMIT ONLY
EV-2 RA

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210bLA

MATCH LINE

COLUMBIA STREET

T-11

WASHINGTON STREET

REFER TO SHEET T-11 FOR WASHINGTON STREET SIGN AND PAVEMENT MARKING PLAN

WASHINGTON ST
D3-21
COLUMBIA ST
D3-5
ONE WAY
(REM)(2)

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST MONDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210aRA

W15-1
15 MPH
W13-1P

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210aLA

TOW ZONE
NO STOPPING ANYTIME
CT-110DA

OM3-R

PROP. RAMP MARKING (TYP.)

SWEL (143')
DBYL (143')
10' CW
DDBYL (21')
10' CW
10' CW
1205+00
1206+00
SWEL (89')
DBYL (160')
DDBYL (18')
1207+00
1208+00
SWEL (118')
7.0'
2206+00
2206+05
3201+45

SUFFOLK STREET
T-10

REFER TO SHEET T-10 FOR SUFFOLK STREET SIGN AND PAVEMENT MARKING PLAN

ONE WAY
(REM) (2)

SUFFOLK ST
D3-20
COLUMBIA ST
D3-5
ONE WAY
R6-1(PBS)

PROP. CROSSWALK MARKING (TYP.)

CHARLES FANNING SQUARE

PROTECT AND REINSTALL EXIST. MEMORIAL SIGN

COLUMBIA ST
D3-5
WORCESTER ST
D3-23

TOW ZONE
NO STOPPING ANYTIME
CT-110DA

COLUMBIA STREET

WORCESTER STREET
T-9

REFER TO SHEET T-9 FOR WORCESTER STREET SIGN AND PAVEMENT MARKING PLAN

ONE WAY
(REM)
ONE WAY
(REM)
ONE WAY
R6-1(PBS)

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210aRA

T-3
T-4

10' CW
7.0'
SWEL (162')
DBYL (172')
DDBYL (25')
1209+00
1210+00
SWEL (169')
7.0'
20.0'
20.0'
DBYL (195')
7.0'
SWEL (248')
1105+90

2 HR PARKING
8AM-6PM EXCEPT SUNDAYS
R7-108cL

2 HR PARKING
8AM-6PM EXCEPT SUNDAYS
R7-108cR

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210bRA

MARVIN PLACE
PRIVATE WAY
RET

MARVIN PLACE01+10
(PRIVATE)

John & Bertine Brown SQUARE

PROTECT AND REINSTALL EXIST. MEMORIAL SIGN

RESERVED PARKING
CT-800LA

RESERVED PARKING
CT-800RA

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210bLA

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210bRA

TOW ZONE
NO STOPPING ANYTIME
CT-110DA

MATCH LINE

RESERVED PARKING
ELECTRIC VEHICLE CHARGING ONLY
PARKING BY PERMIT ONLY

TOW ZONE
NO STOPPING ANYTIME
CT-110LA

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST TUESDAY EACH MONTH APR, OCT 10 AM - 2 PM
PARKING BY PERMIT ONLY EXCEPT SUNDAYS
CT-210bRA

WASHINGTON ST
(REM)

TOW ZONE
NO STOPPING ANYTIME
CT-110DA

OM3-R

WASHINGTON STREET

REFER TO SHEET T-11 FOR WASHINGTON STREET SIGN AND PAVEMENT MARKING PLAN

T-11

PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

CONFORMED

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - COLUMBIA STREET.dwg LAYOUT: T-3 BY: peter garland

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

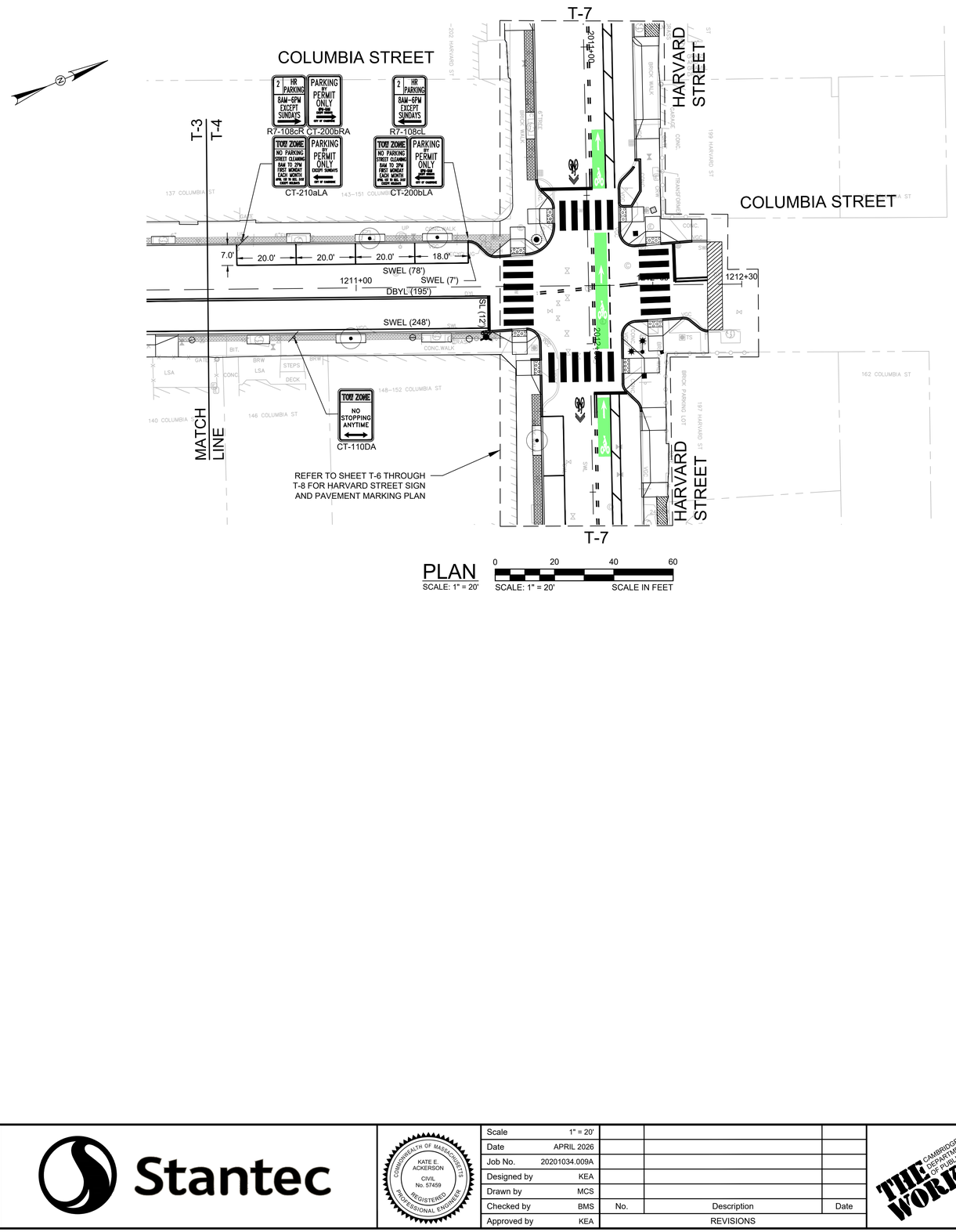
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING COLUMBIA STREET STA. 1200+92 TO STA. 1210+50

Sheet: T-3

File No.: 30724



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

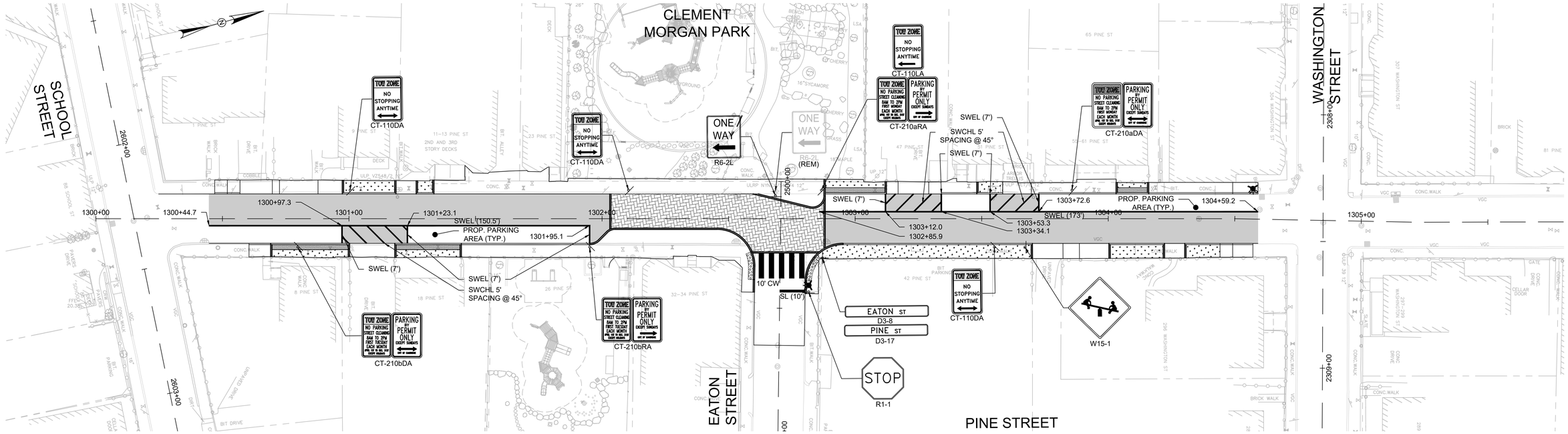
Drawing: ROADWAY - CONSTRUCTION PLAN
COLUMBIA STREET - STA. 1210+50 TO STA. 1212+30

Sheet: T-4

File No.: 30724

Plot date: 12/17/2025 3:11:34 PM
CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - COLUMBIA STREET.dwg LAYOUT: T-4 BY: peter garland

Plot date: 11/13/2025 11:51:19 AM



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20'
SCALE IN FEET

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

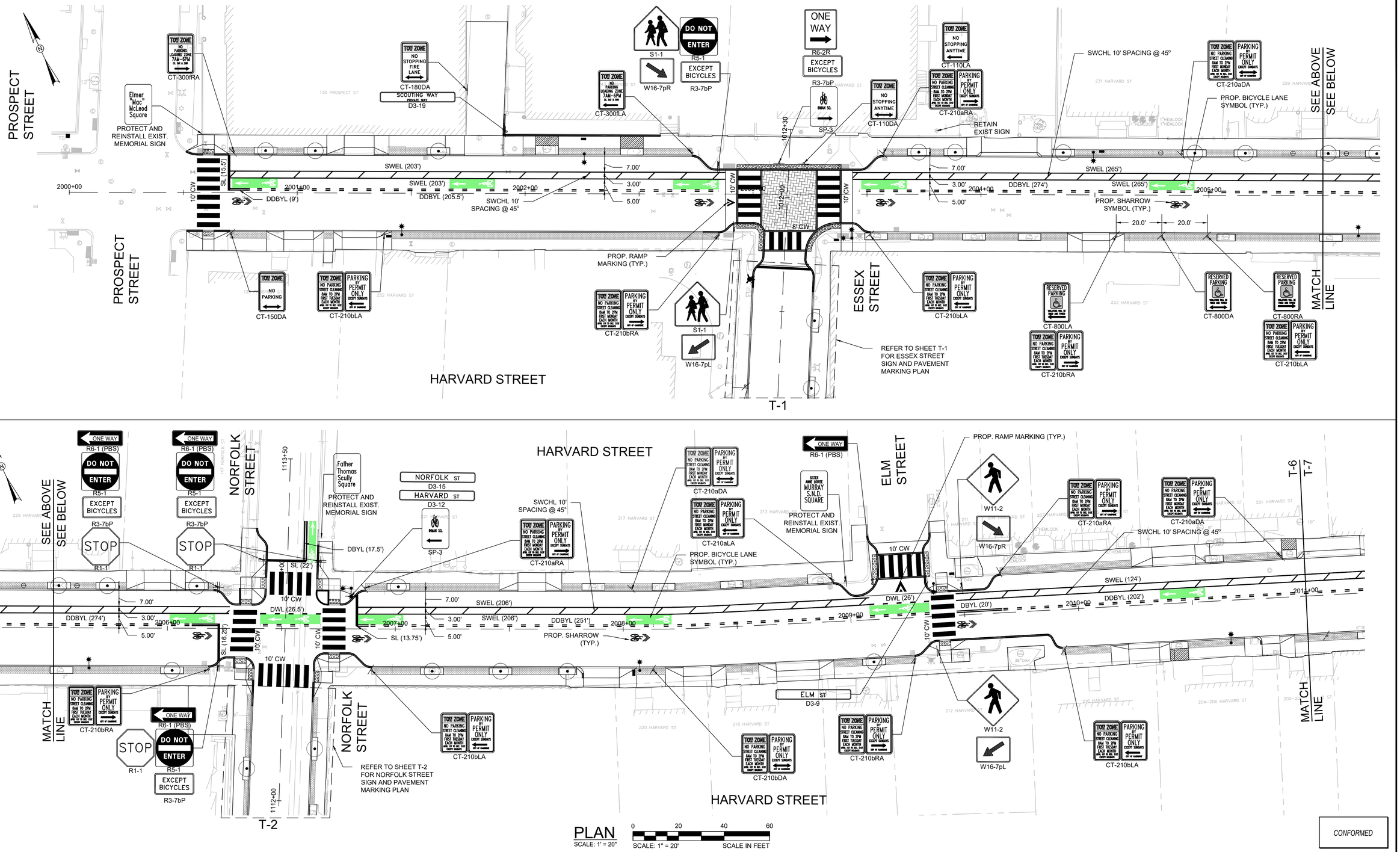
Drawing: ROADWAY - SIGN & PAVEMENT MARKING
PINE STREET STA. 1300+44 TO STA. 1304+65

Sheet: T-5

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - PINE STREET.dwg LAYOUT: T-5 BY: peter garland

Plot date: 12/17/2025 8:36:50 PM



PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

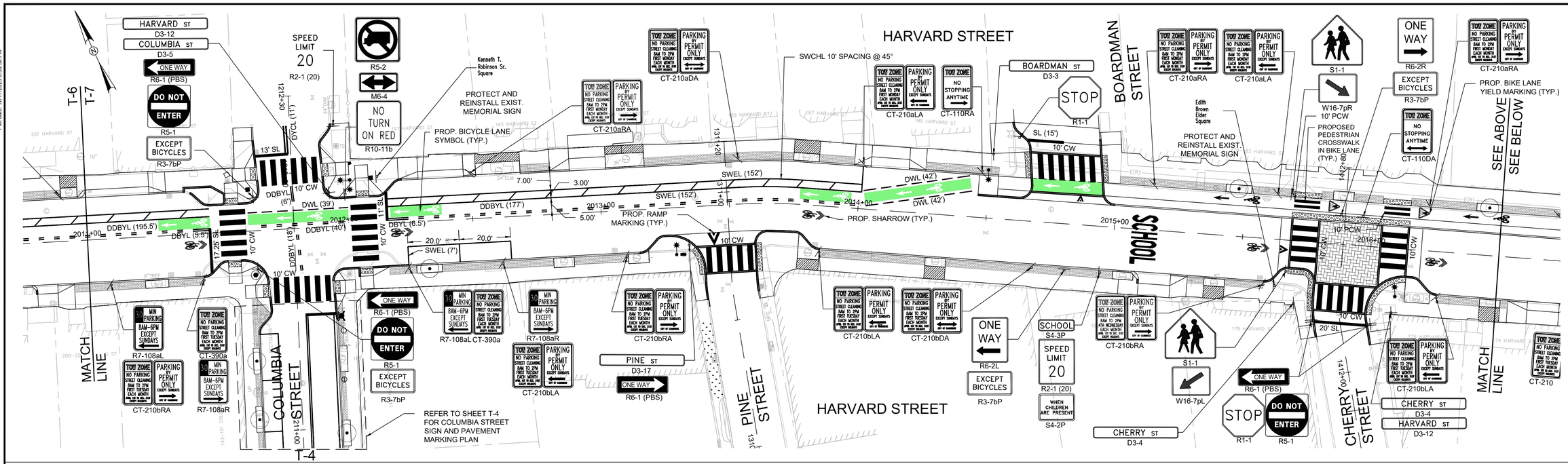
Drawing: ROADWAY - SIGN & PAVEMENT MARKING HARVARD STREET STA. 2000+00 TO STA. 2011+00

Sheet: T-6

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Int\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - HARVARD STREET.dwg LAYOUT: T-6 BY: peter garland

Plot date: 12/17/2025 8:36:50 PM



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KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

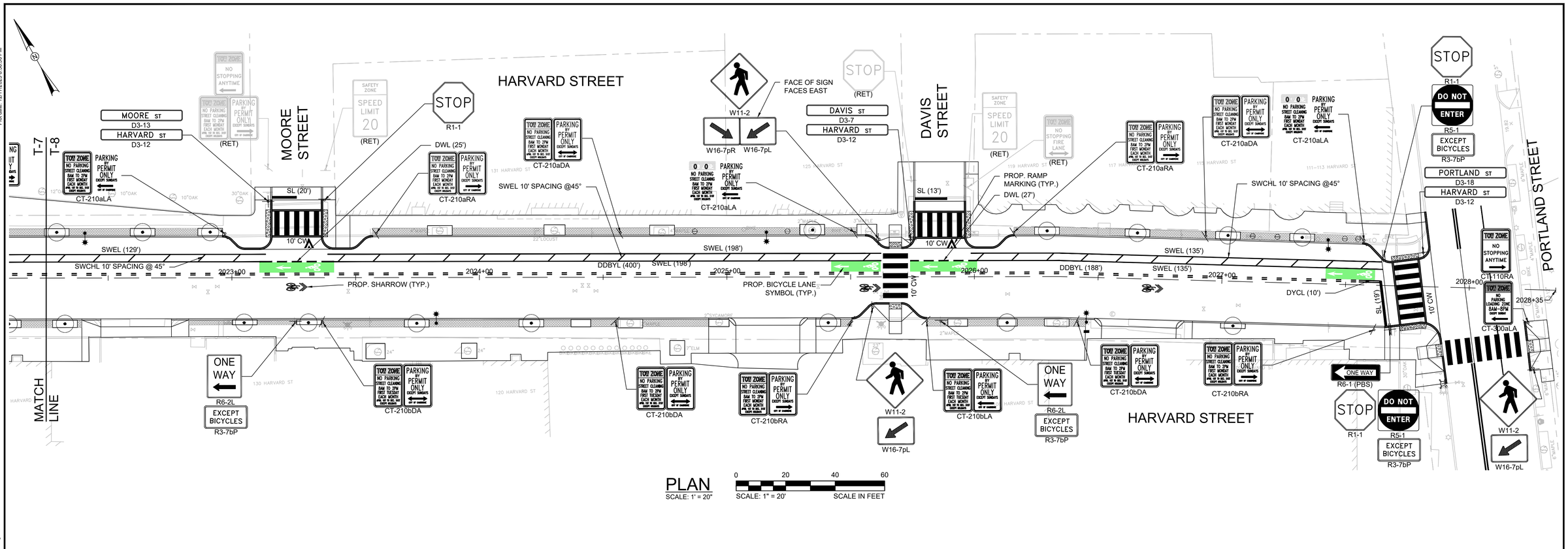
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING HARVARD STREET STA. 2011+00 TO STA. 2022+25

Sheet: T-7

File No.: 30724

C:\AD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - HARVARD STREET.dwg LAYOUT: T-7 BY: peter garland



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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

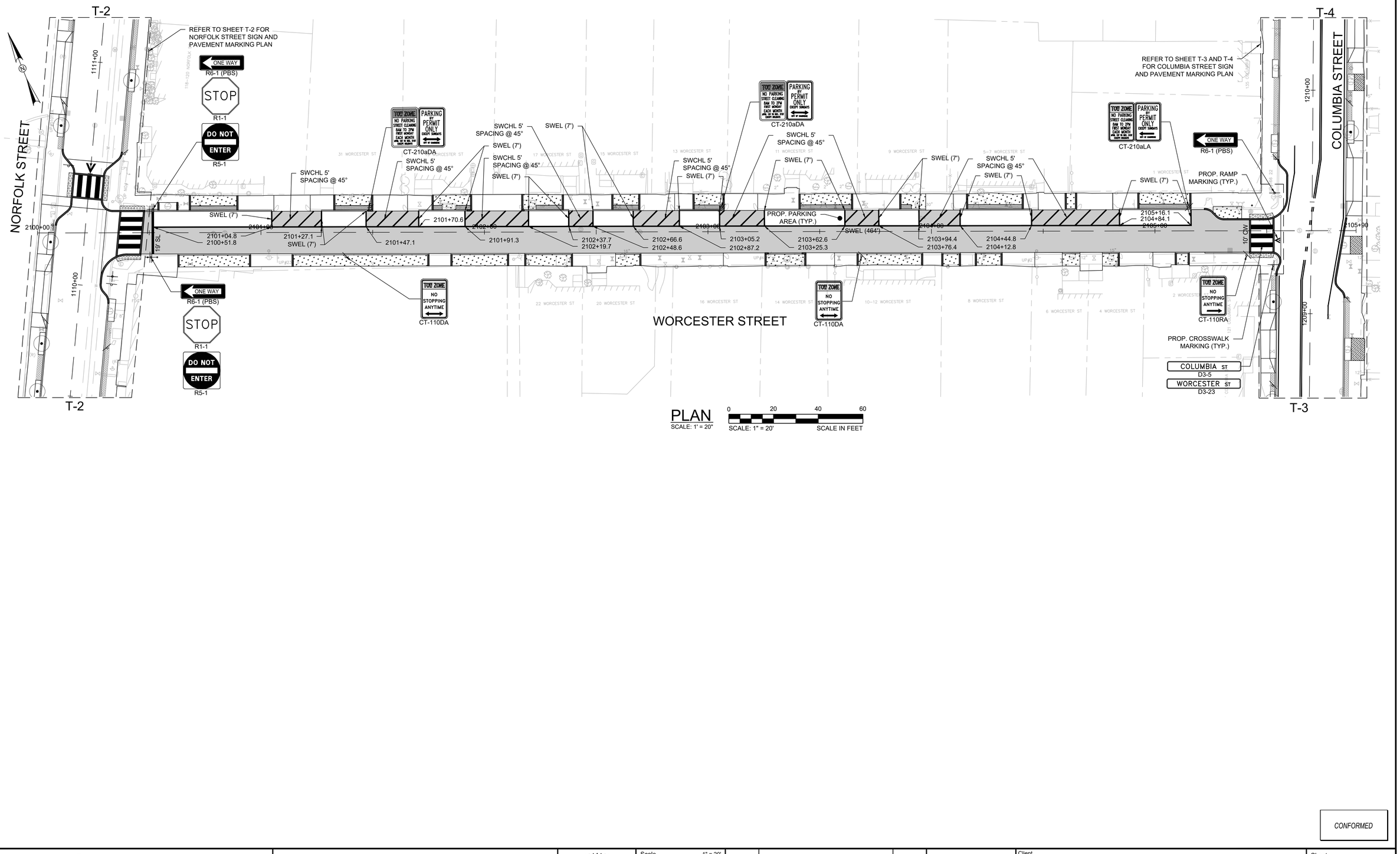
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING
HARVARD STREET STA. 2022+25 TO STA. 2028+25

Sheet: T-8

File No.: 30724

Plot date: 12/17/2025 8:36:50 PM
CAD FILE: L:\City Of Cambridge MA\2020\1034.009A-Cambridge MA- The Port Int\Working\Drawings\Traffic\Production Drawings\PORT-ALF-Roadway_Traffic - HARVARD STREET.dwg LAYOUT: T-8 BY: peter garland



CONFORMED

Scale	1" = 20'				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	KEA				
Drawn by	MCS				
Checked by	BMS	No.	Description	Date	
Approved by	KEA	REVISIONS			

KATE E. ACKERSON, CIVIL, No. 57459, COMMONWEALTH OF MASSACHUSETTS, REGISTERED PROFESSIONAL ENGINEER

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING WORCESTER STREET STA. 2100+00 TO STA. 2105+90

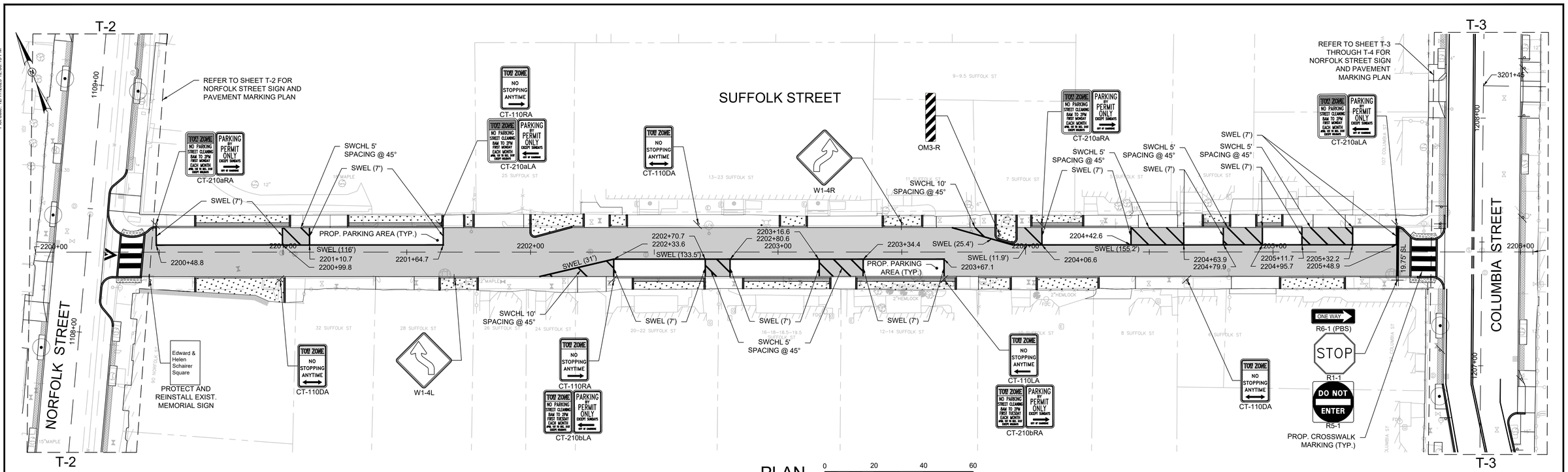
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File No.: 30724

Plot date - 12/16/2025 5:25:08 PM

CAD FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - WORCESTER STREET.dwg LAYOUT: T-9 BY: peter garland

Plot date: 12/17/2025 12:00:13 PM



PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING SUFFOLK STREET STA. 2200+00 TO STA. 2206+05

Sheet: T-10

File No.: 30724

CAD FILE: I:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - SUFFOLK STREET.dwg LAYOUT: T-10 BY: peter garland

Plot date: 12/16/2025 4:15:05 PM

T-2

NORFOLK STREET

ONE WAY
R6-1(PBS)

STOP
R1-1

DO NOT ENTER
R5-1

TOW ZONE
NO PARKING STREET CLEANING 8AM TO 2PM FIRST MONDAY EACH MONTH
PARKING BY PERMIT ONLY EXCEPT SUNDAYS

CT-210aDA

CT-210aLA

CT-210aRA

TOW ZONE
NO STOPPING ANYTIME

CT-110RA

OM3-R

CT-110DA

WASHINGTON STREET

SEE ABOVE
SEE BELOW

MATCH LINE

2800+00
2301+00
2302+00
2303+00
2304+00
2305+00

8' CW

SL (49.75')

PROP. RAMP MARKING (TYP.)

3102+20

PROP. CROSSWALK MARKING (TYP.)

REFER TO SHEET T-2 FOR NORFOLK STREET SIGN AND PAVEMENT MARKING PLAN

FISKE PL (PRIVATE WAY)

D3-11

FISKE PLACE

CT-210bLA

CT-110RA

REFER TO SHEET T-3 AND T-4 FOR COLUMBIA STREET SIGN AND PAVEMENT MARKING PLAN

T-3

WASHINGTON ST
D3-21

COLUMBIA ST
D3-5

ONE WAY
R6-2L

ONE WAY
R6-2R

JOHN & LORRAINE SCOTT SQUARE

PROTECT AND REINSTALL EXIST. MEMORIAL SIGN

1206+00

10' CW

2306+00

19'/5' SL

2307+00

2308+00

1305+00

PINE STREET

REFER TO SHEET T-5 FOR PINE STREET SIGN AND PAVEMENT MARKING PLAN

CT-150LA

CT-210bRA

PROP. CROSSWALK MARKING (TYP.)

COLUMBIA STREET

T-5

PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE IN FEET
SCALE: 1" = 20'

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
No. 57459
CIVIL
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KEA
Drawn by	MCS
Checked by	BMS
Approved by	KEA

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

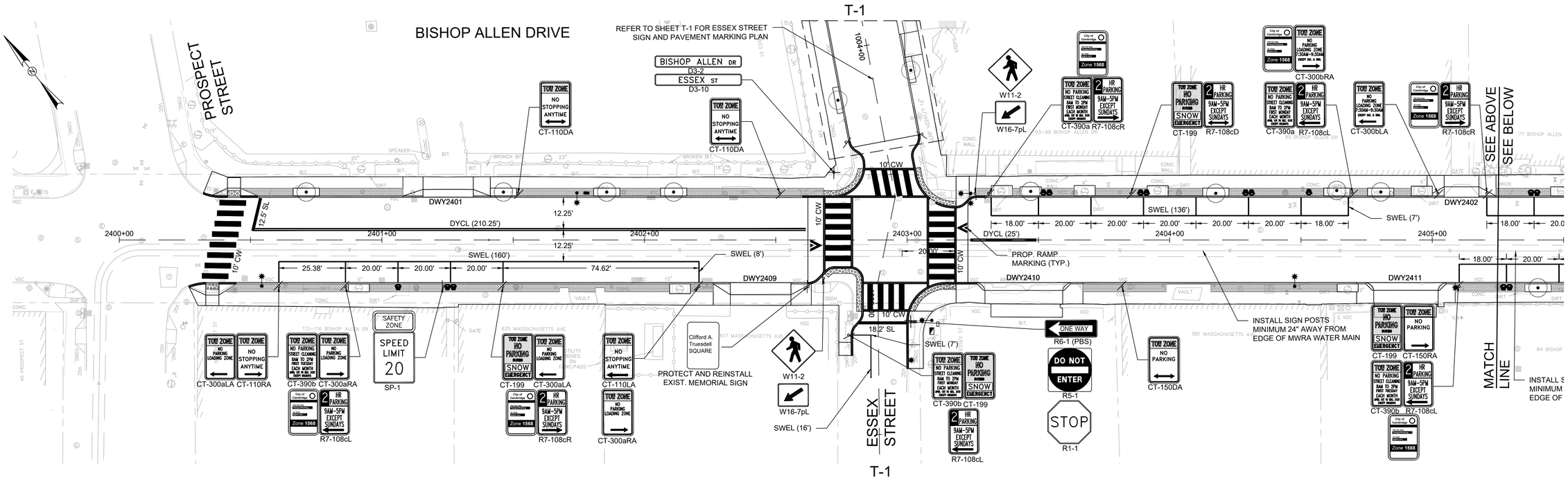
Drawing: ROADWAY - SIGN & PAVEMENT MARKING
WASHINGTON STREET STA. 2300+00 TO STA. 2307+27

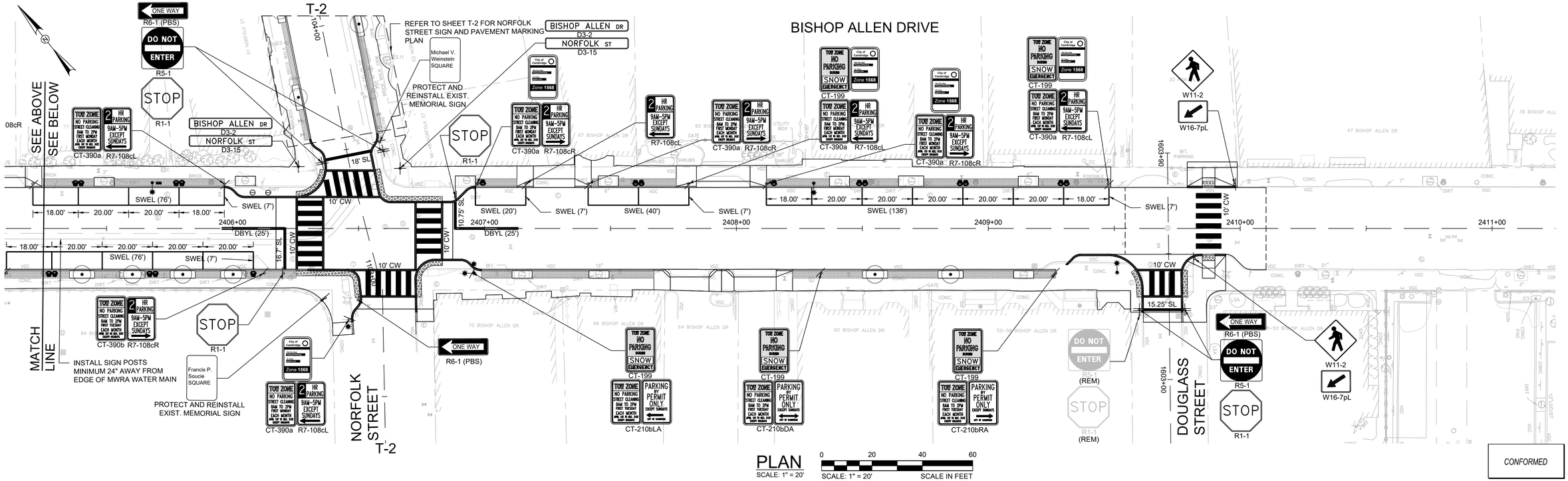
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File No.: 30724

C:\&D FILE: L:\City Of Cambridge MA\20201034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - WASHINGTON STREET.dwg LAYOUT: T-11 BY: peter garland

Plot date: 12/17/2025 12:01:17 PM





PLAN

SCALE: 1" = 20'

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
KATE E. ACKERSON
CIVIL
No. 57459
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	MCS
Drawn by	MCS
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	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

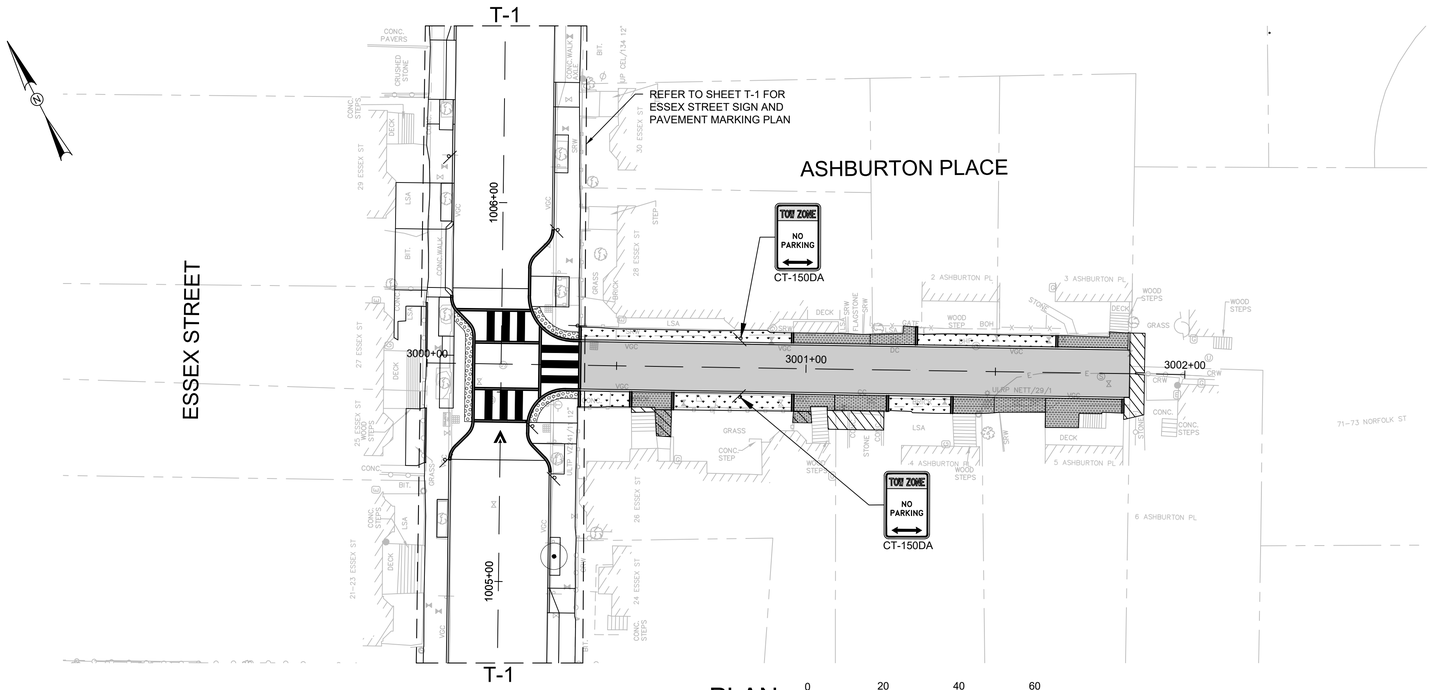
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2410+00

Sheet: T-12

File No.: 30724

CAD FILE: L:\City Of Cambridge MA\2020\1034.009A-Cambridge MA- The Port Infr\Working\Drawings\Traffic\Production Drawings\PORT-KLF-Roadway_Traffic - BISHOP ALLEN DRIVE.dwg LAYOUT: T-12 BY: peter garland



PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

Scale	1" = 20'				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	KEA				
Drawn by	MCS				
Checked by	BMS	No.	Description	Date	
Approved by	KEA	REVISIONS			

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KATE E. ACKERSON
CIVIL
No. 57459
COMMONWEALTH OF MASSACHUSETTS
REGISTERED PROFESSIONAL ENGINEER

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: ROADWAY - SIGN & PAVEMENT MARKING
ASHBURTON PLACE STA. 3000+00 TO STA. 3001+85

Sheet: T-13

File No.: 30724

Plot date: 12/17/2025 11:01:32 AM

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51654
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 100'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LTS
Drawn by	LTS
Checked by	GAA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

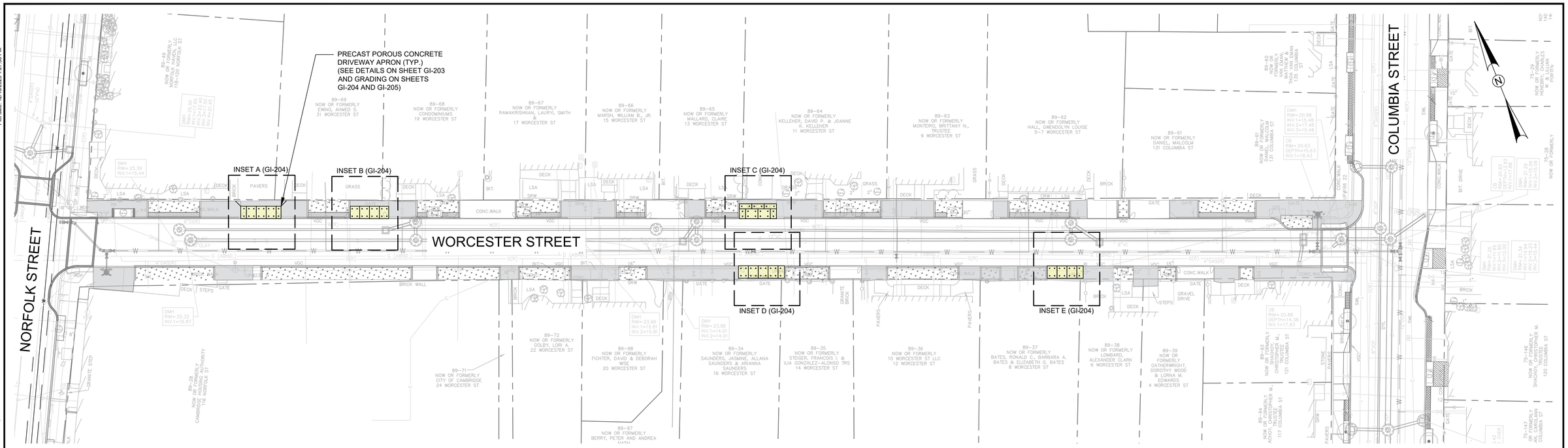
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: GREEN INFRASTRUCTURE
OVERALL PLAN

Sheet: GI-101

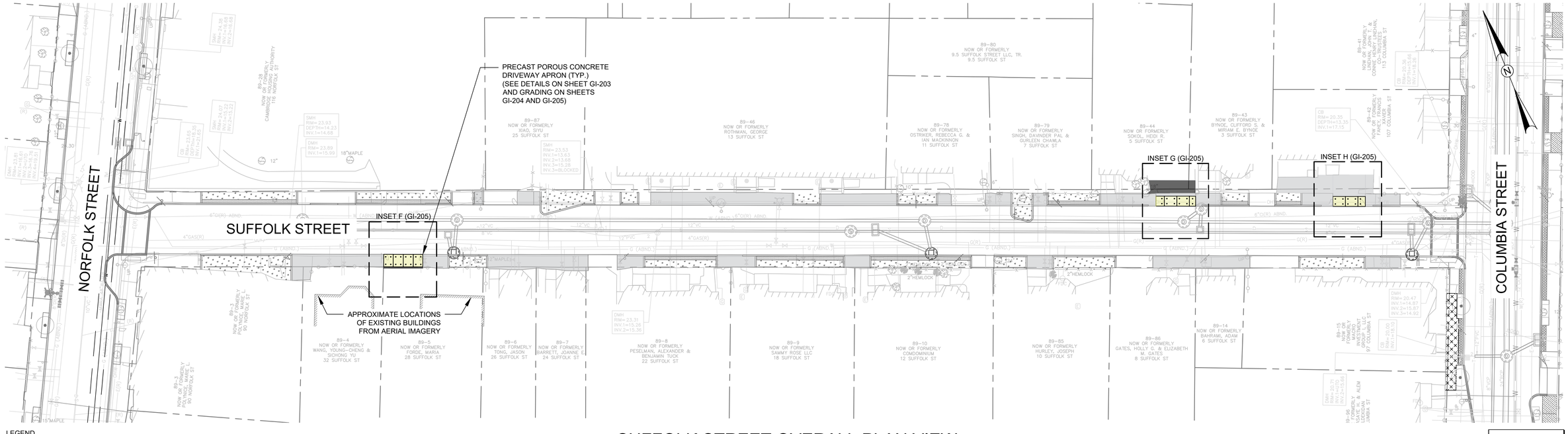
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WORCESTER STREET OVERALL PLAN VIEW

SCALE: 1" = 20'



SUFFOLK STREET OVERALL PLAN VIEW

SCALE: 1" = 20'

LEGEND

- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL (SEE DETAILS ON SHEET GI-203)
- ASPHALT DRIVEWAY RESTORATION (MATCH EXISTING DEPTH)
- 6" CONCRETE SIDEWALK/DRIVEWAY

0 20 40
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	NBR
Drawn by	NBR
Checked by	GAA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

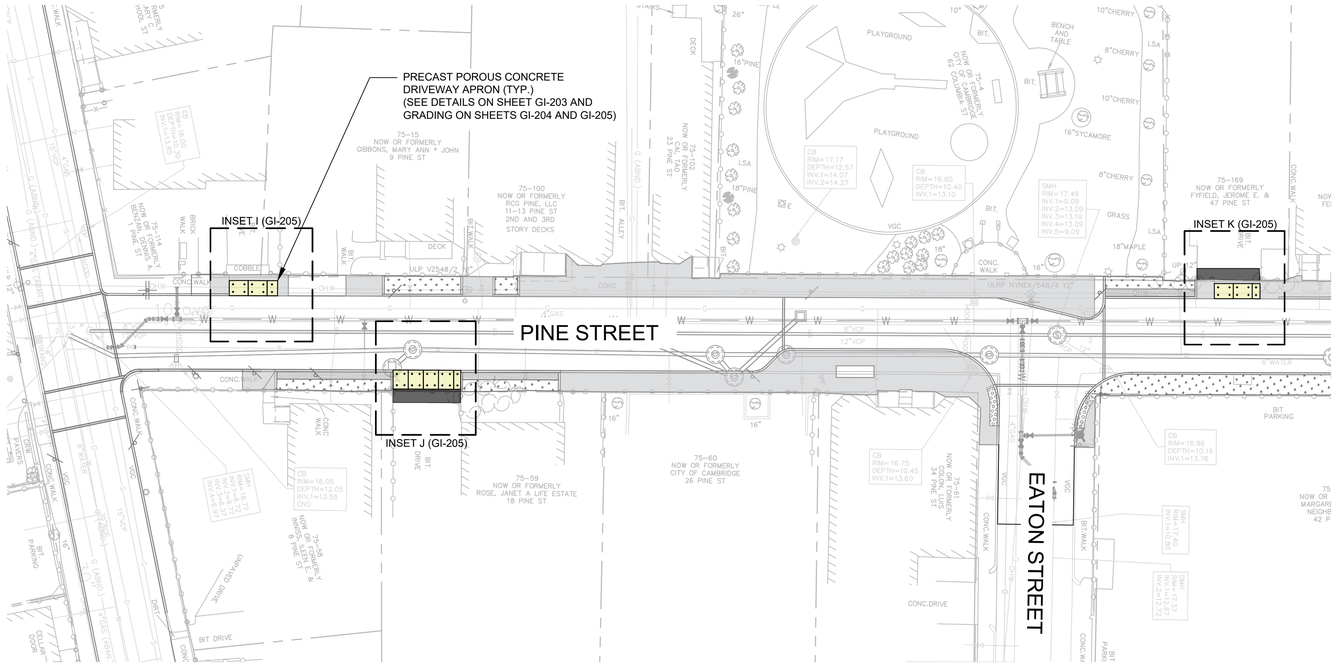
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: GREEN INFRASTRUCTURE POROUS DRIVEWAY APRON PLAN - 1 OF 2

Sheet: GI-201

File No.: 30724



PINE STREET OVERALL PLAN VIEW

SCALE: 1" = 20'

LEGEND

- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL (SEE DETAILS ON SHEET GI-203)
- ASPHALT DRIVEWAY RESTORATION (MATCH EXISTING DEPTH)
- 6" CONCRETE SIDEWALK/DRIVEWAY

0 20 40
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

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	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

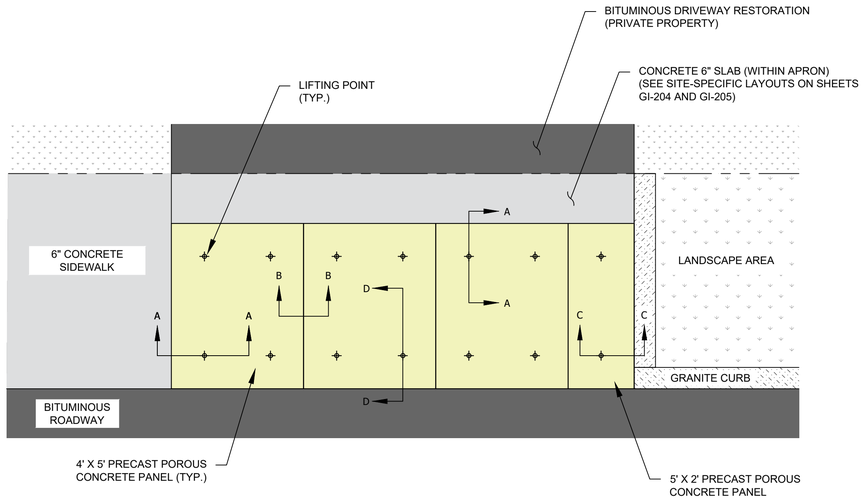
Drawing: GREEN INFRASTRUCTURE
POROUS DRIVEWAY APRON PLAN - 2 OF 2

Sheet: GI-202

File No.: 30724

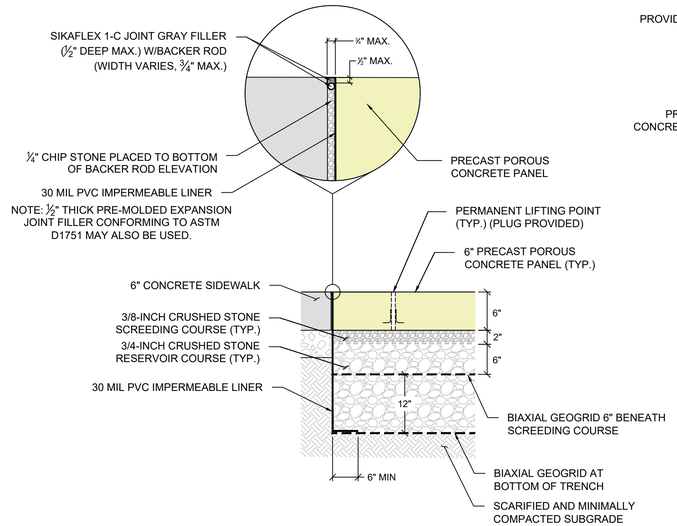
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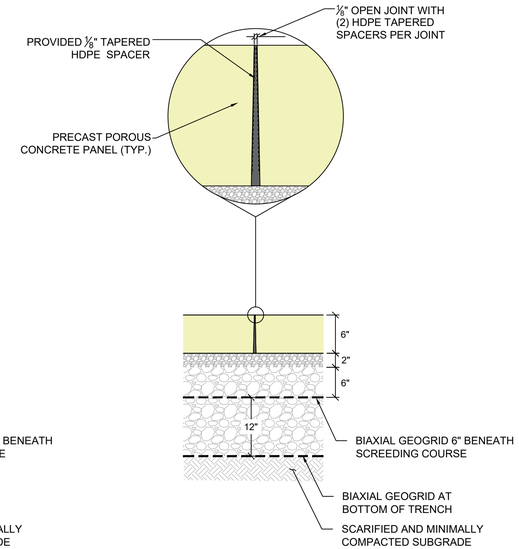
TYPICAL SLAB LAYOUT

NOTE: REFER TO SHEETS GI-204 AND GI-205 FOR SITE-SPECIFIC PANEL LAYOUTS AND GRADING.



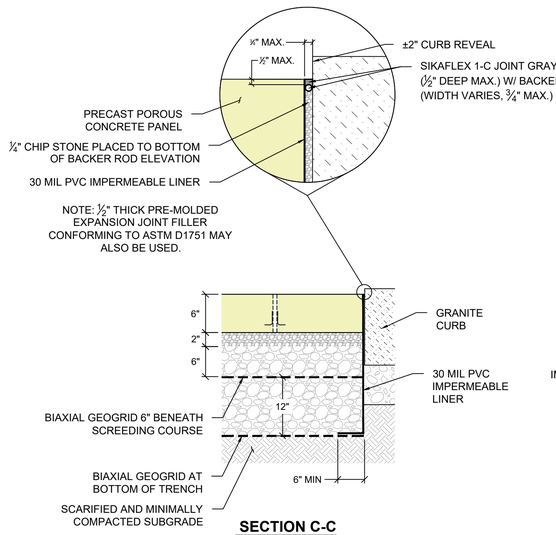
SECTION A-A

JOINT BETWEEN
PRECAST POROUS CONCRETE PANEL
AND CONCRETE 6" SLAB



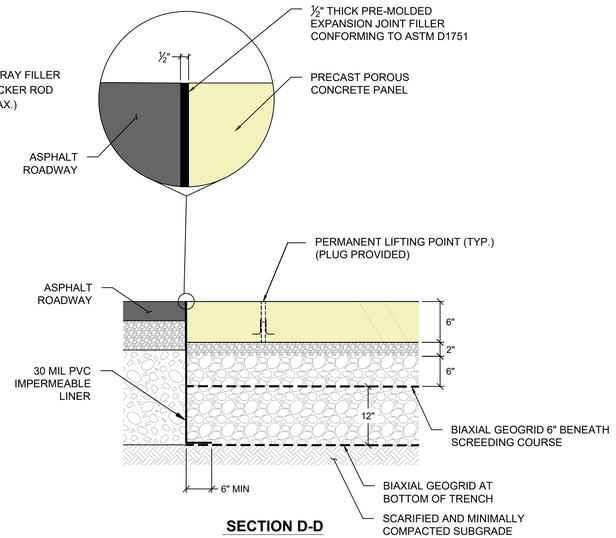
SECTION B-B

JOINT BETWEEN
PRECAST POROUS CONCRETE PANELS



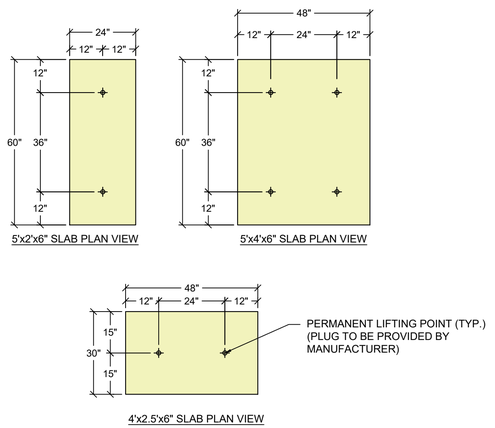
SECTION C-C

JOINT BETWEEN
PRECAST POROUS CONCRETE PANEL
AND GRANITE CURB



SECTION D-D

JOINT BETWEEN
PRECAST POROUS CONCRETE PANEL
AND BITUMINOUS ROADWAY



STANDARD PANEL DIMENSIONS

NOTES:

1. PRECAST POROUS CONCRETE SHALL HAVE A CONCRETE AVERAGE UNIT WEIGHT OF 120 LB/CF (+/- 4%) AND A VOID RATIO OF 15-25% WHEN TESTED IN CONFORMANCE WITH *ASTM D1754/1754M-12 STANDARD TEST METHOD FOR DENSITY AND VOID CONTENT OF HARDENED PERVIOUS CONCRETE.*
2. ADJACENT MATERIAL SHALL NOT BE ALLOWED TO COME INTO DIRECT CONTACT WITH SIDES OF SLAB. PLACE ½" MOLDED BITUMINOUS EXPANSION JOINT MATERIAL IN CONFORMANCE WITH *ASTM D1751, STANDARD SPECIFICATION FOR PREFORMED EXPANSION JOINT FILLER FOR CONCRETE PAVING AND STRUCTURAL CONSTRUCTION (NONEXTRUDING AND RESILIENT BITUMINOUS TYPES).*
3. PRECAST POROUS CONCRETE SLABS SHALL BE REINFORCED WITH ULTRA-THIN MONOFILAMENT HOMOPOLYMER POLYPROPYLENE FIBERS EQUIVALENT TO MASTERFIBER 100 MANUFACTURED BY BASF CORPORATION., OR APPROVED EQUAL.
4. ½" GALV. COIL THREAD LIFTING INSERT SHALL BE MANUFACTURED BY A.L.P. SUPPLY PART NUMBER CI6312134P, OR EQUAL.
5. SLABS MAY BE CONFIGURED OR FIELD CUT AS SPECIFIED IN SPECIFIC SITE LAYOUT SHEETS (GI-204 AND GI205) ONLY. SLABS SHALL BE CUT WITH A DIAMOND BLADE MASONRY SAW. CUT UNITS SHALL BE NO NARROWER THAN 18" AND CUTTING SHALL OCCUR SO THAT A MINIMUM OF 8" IS MAINTAINED BETWEEN LIFTERS EMBEDDED IN SLABS AND CUT EDGES.
6. PRECAST POROUS CONCRETE SLABS SHALL HAVE A MINIMUM INFILTRATION RATE OF 250 IN./HR. WHEN TESTED IN ACCORDANCE WITH ASTM C1701 - INFILTRATION RATE OF IN PLACE PERVIOUS CONCRETE.
7. BIAXIAL GEOGRID SHALL BE INDUSTRIAL FABRICS BaseLOK^{TM} BL-6 OR APPROVED EQUAL.
8. CLEAN-WASHED 3/4-INCH CRUSHED STONE (RESERVOIR COURSE) SHALL BE COMPACTED IN MAXIMUM 8" LIFTS.
9. REFER TO MANUFACTURER'S HANDLING AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL PRODUCT SPECIFIC INFORMATION.

PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL INSTALLATION DETAILS

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	N.T.S.
Date	APRIL 2026
Job No.	20201034.009A
Designed by	NBR
Drawn by	NBR
Checked by	GAA
Approved by	BMS

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	REVISIONS	

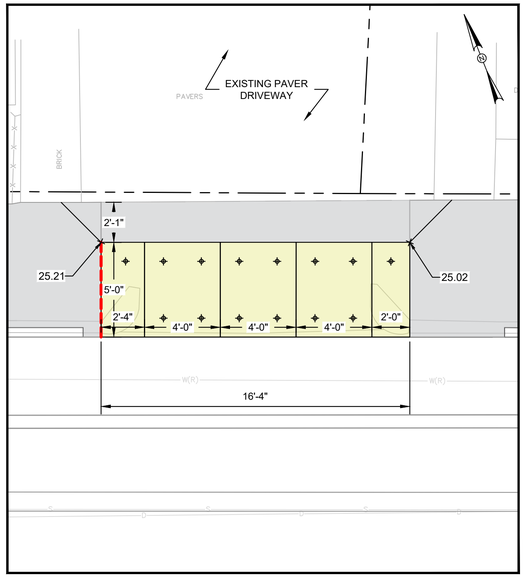
THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: GREEN INFRASTRUCTURE POROUS DRIVEWAY APRON DETAILS

Sheet: GI-203
File No.: 30724

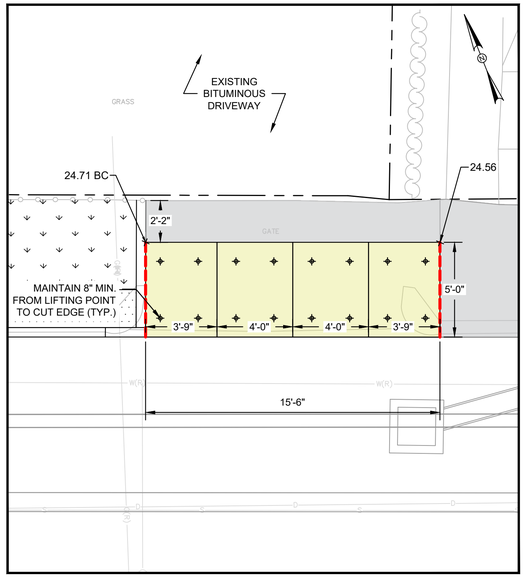
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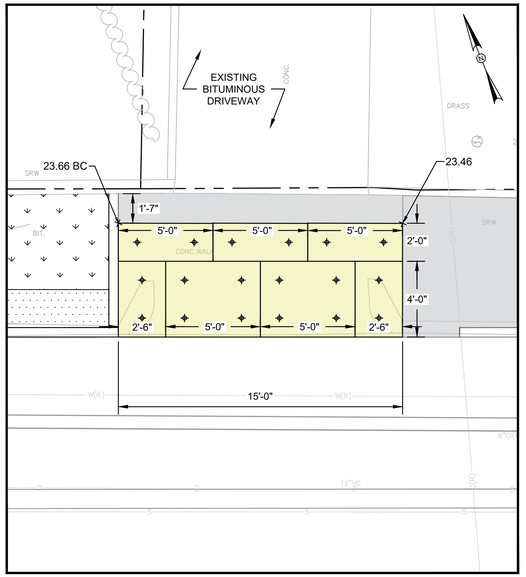
INSET A - 118 NORFOLK ST.

SCALE: 1" = 4'



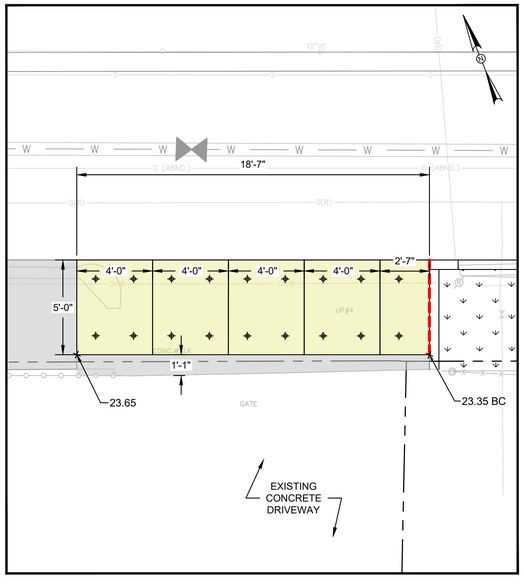
INSET B - 31 WORCESTER ST.

SCALE: 1" = 4'



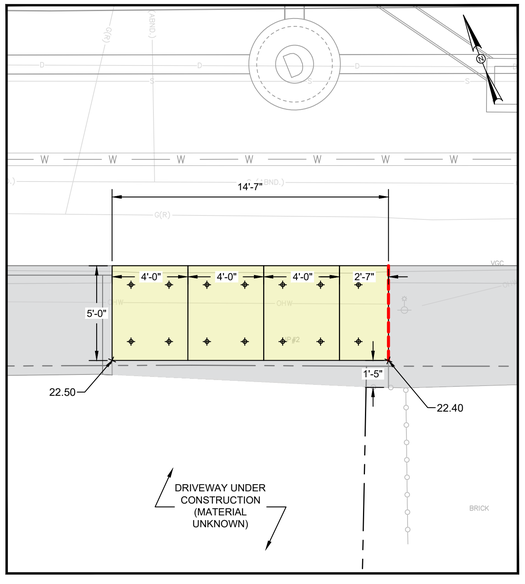
INSET C - 11 WORCESTER ST.

SCALE: 1' = 4'



INSET D - 16 WORCESTER ST.

SCALE: 1' = 4'



INSET E - 8 WORCESTER ST.

SCALE: 1' = 4'

NOTES:

1. TIE IN AS NEEDED TO MATCH EXISTING DRIVEWAY MATERIAL AND DEPTH. RESTORE EXISTING DRIVEWAY AS NEEDED. SUGGESTED PAVING MATERIAL AND EXTENTS ARE SUBJECT TO FIELD REVIEW AT ALL LOCATIONS.
2. SEE ROADWAY GRADING SHEETS FOR ADDITIONAL GRADING INFORMATION.

LEGEND

- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL (SEE DETAILS ON SHEET GI-203)
- CONCRETE PANEL CUT LINE
- ASPHALT DRIVEWAY RESTORATION (MATCH EXISTING DEPTH)
- 6" CONCRETE SIDEWALK/DRIVEWAY
- PLANTED AREA (SEE LANDSCAPE PLANS)

0 4 8
SCALE: 1" = 4' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 4'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	NBR
Drawn by	NBR
Checked by	GAA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

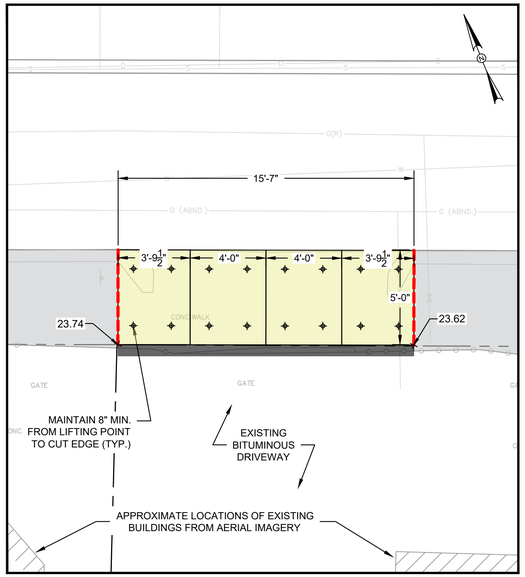
Drawing: GREEN INFRASTRUCTURE POROUS DRIVEWAY APRON INSETS - 1 OF 2

Sheet: GI-204

File No.: 30724

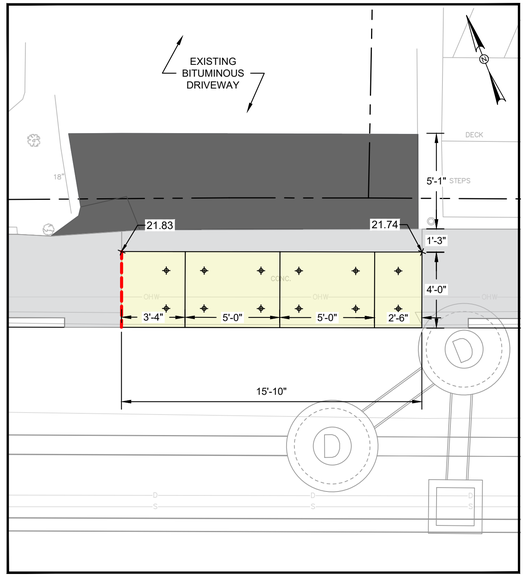
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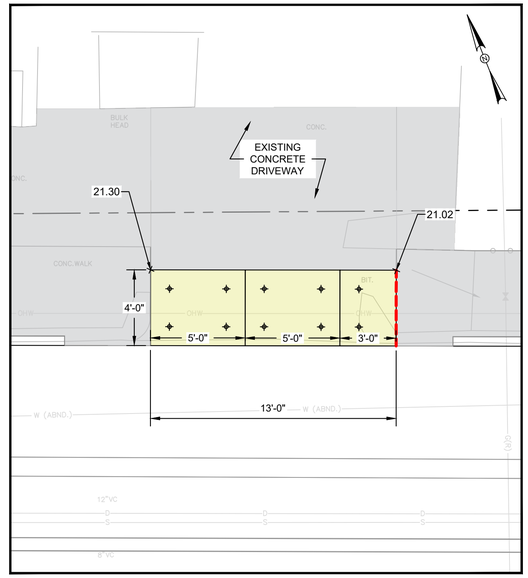
INSET F - 28 SUFFOLK ST.

SCALE: 1" = 4'



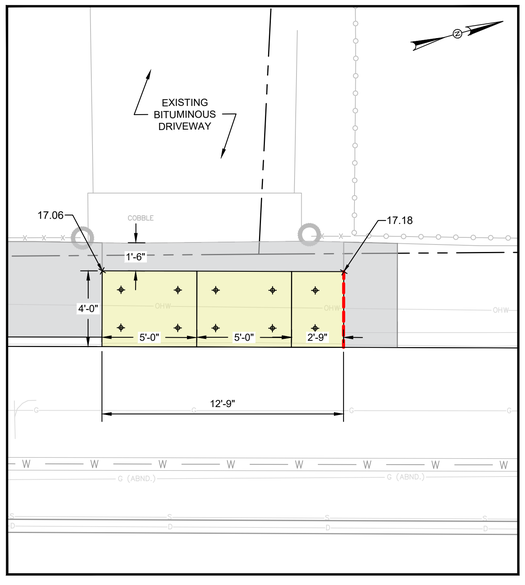
INSET G - 5 SUFFOLK ST.

SCALE: 1" = 4'



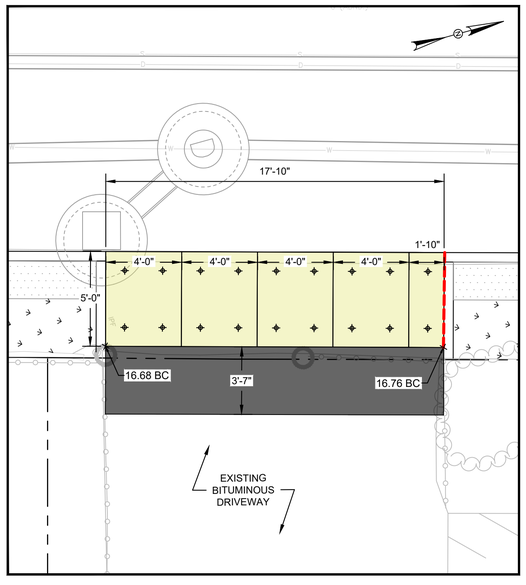
INSET H - 107 COLUMBIA ST.

SCALE: 1" = 4'



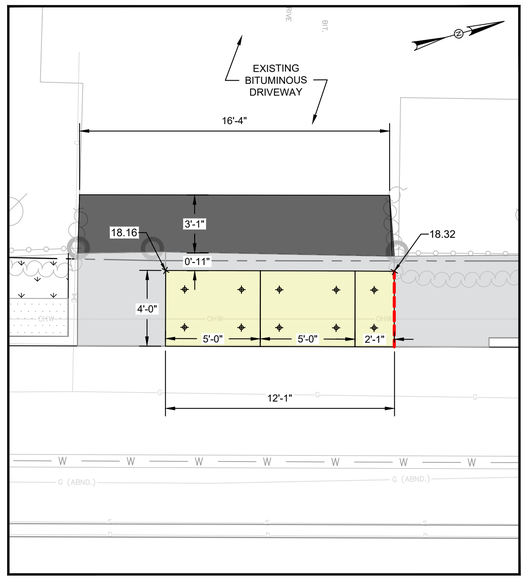
INSET I - 1 PINE ST.

SCALE: 1" = 4'



INSET J - 18 PINE ST.

SCALE: 1" = 4'



INSET K - 47 PINE ST.

SCALE: 1" = 4'

NOTES:
1. TIE IN AS NEEDED TO MATCH EXISTING DRIVEWAY MATERIAL AND DEPTH. RESTORE EXISTING DRIVEWAY AS NEEDED. SUGGESTED PAVING MATERIAL AND EXTENTS ARE SUBJECT TO FIELD REVIEW AT ALL LOCATIONS.
2. SEE ROADWAY GRADING SHEETS FOR ADDITIONAL GRADING INFORMATION.

LEGEND

- PRECAST POROUS CONCRETE DRIVEWAY APRON PANEL (SEE DETAILS ON SHEET GI-203)
- CONCRETE PANEL CUT LINE
- ASPHALT DRIVEWAY RESTORATION (MATCH EXISTING DEPTH)
- 6" CONCRETE SIDEWALK/DRIVEWAY
- PLANTED AREA (SEE LANDSCAPE PLANS)

0 4 8
SCALE: 1" = 4' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 4'
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Job No.	20201034.009A
Designed by	NBR
Drawn by	NBR
Checked by	GAA
Approved by	BMS

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

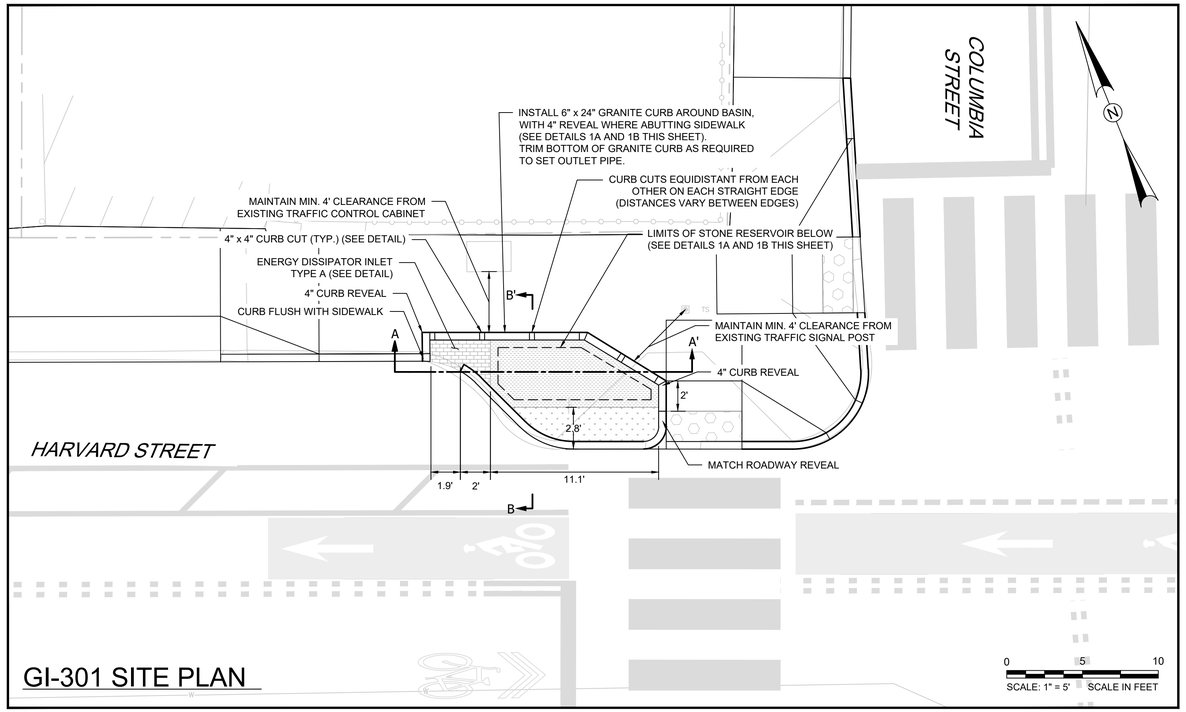
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

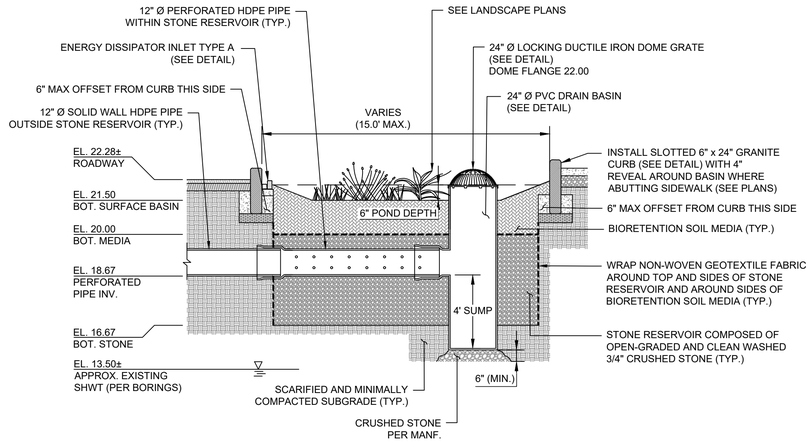
Drawing: GREEN INFRASTRUCTURE POROUS DRIVEWAY APRON INSETS - 2 OF 2

Sheet: GI-205

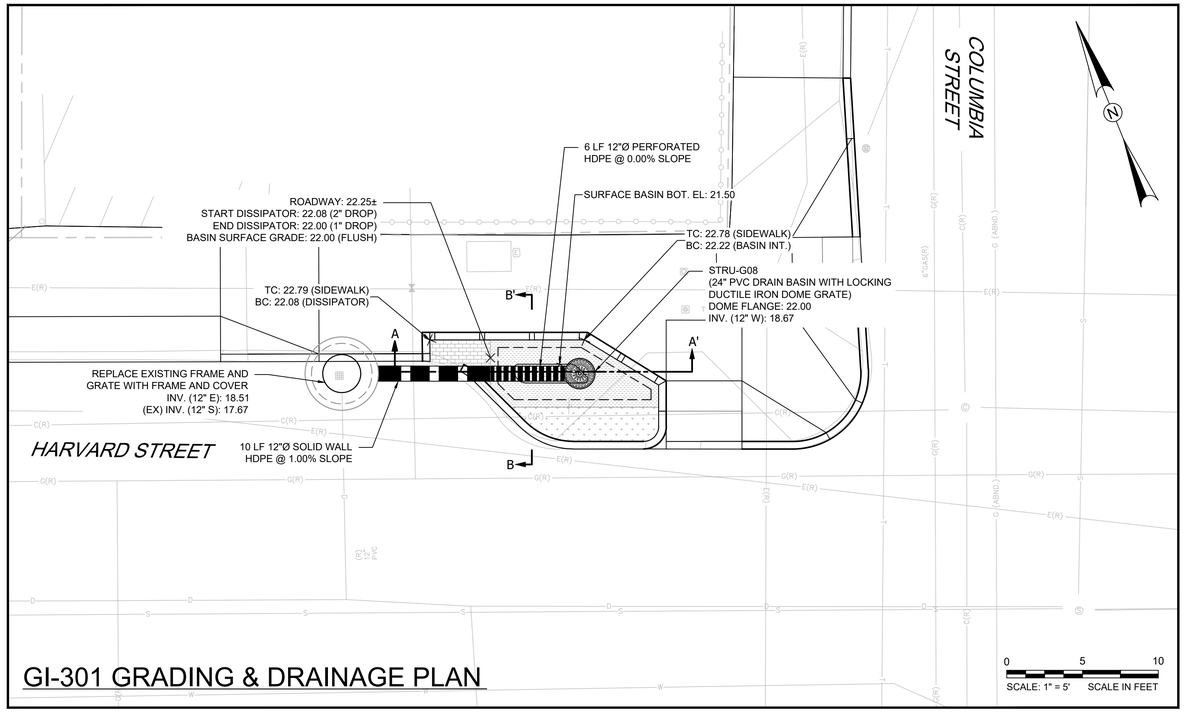
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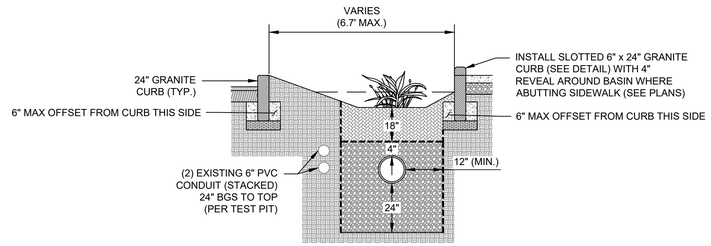
GI-301 SITE PLAN



1A GI-301 BASIN PROFILE A-A'
SCALE: NTS



GI-301 GRADING & DRAINAGE PLAN



1B GI-301 BASIN CROSS SECTION B-B'
SCALE: NTS

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51654
REGISTERED
PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	LTS			
Drawn by	LTS			
Checked by	GAA	No.	Description	Date
Approved by	BMS	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

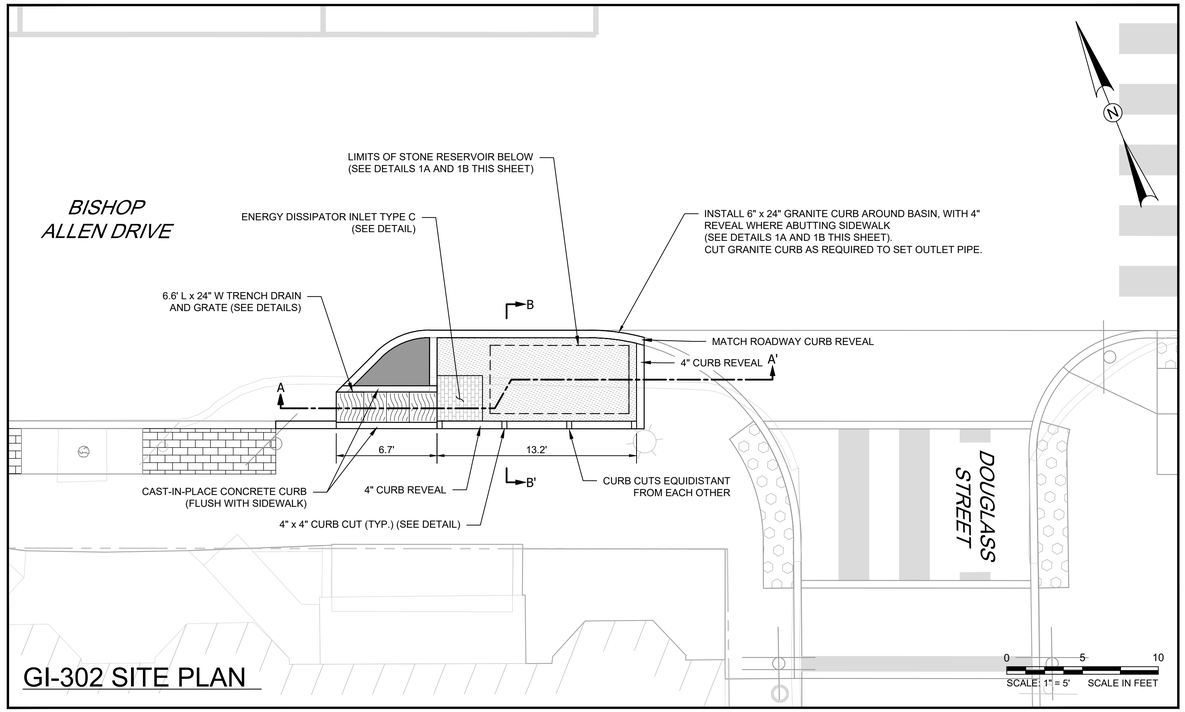
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: GREEN INFRASTRUCTURE BIOCELLS - 1 OF 2

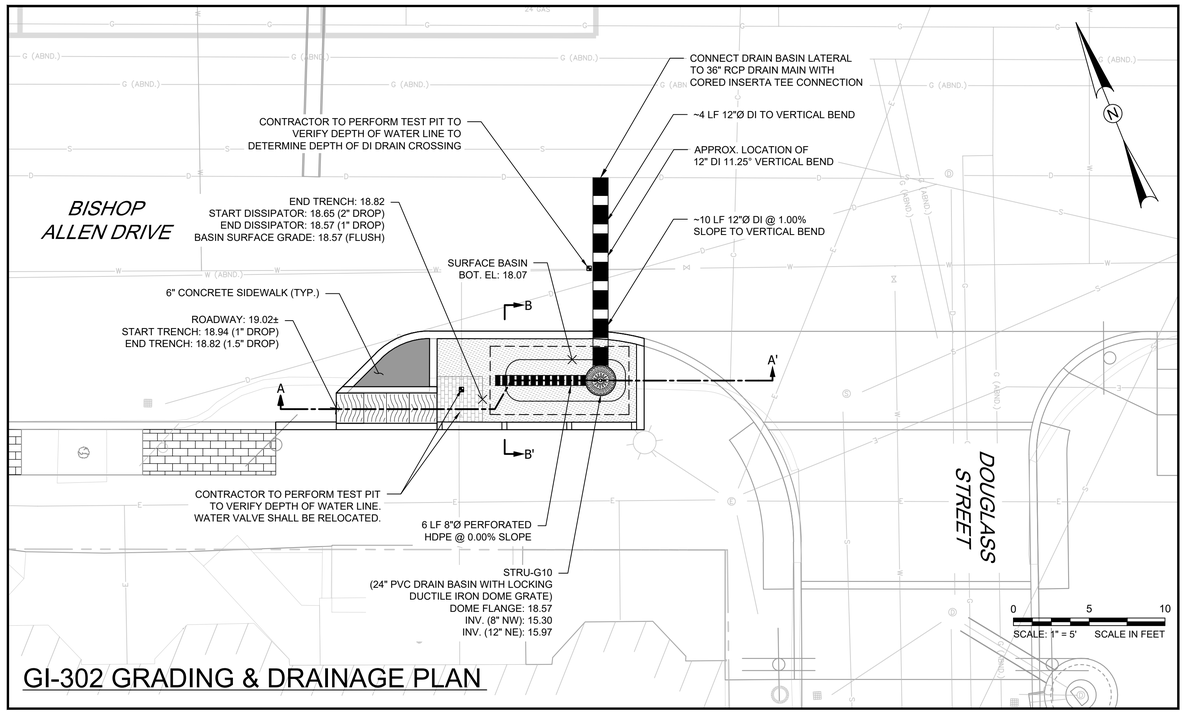
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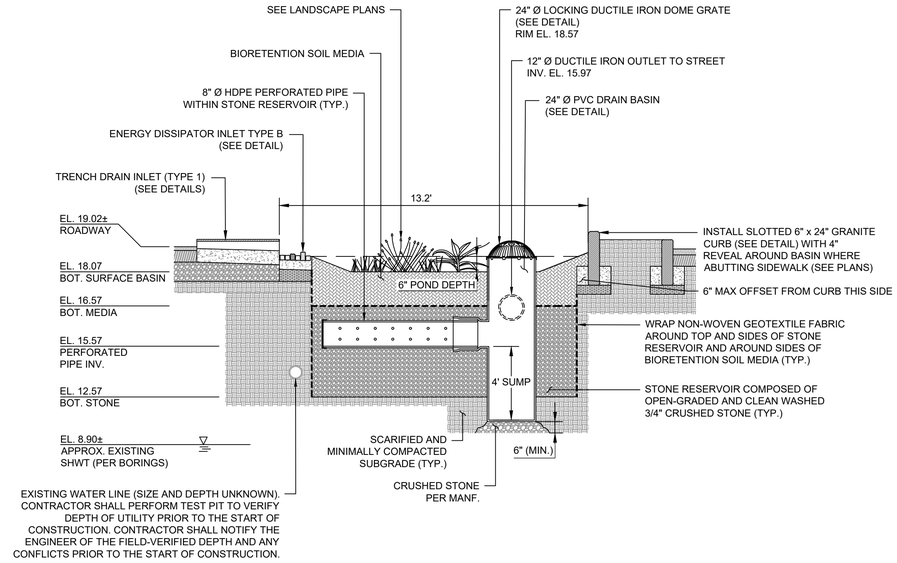
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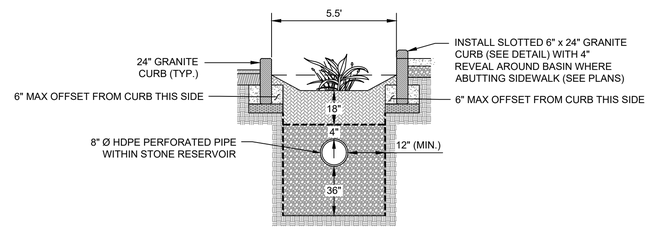
GI-302 SITE PLAN



GI-302 GRADING & DRAINAGE PLAN



1A / GI-302 BASIN PROFILE A-A'
SCALE: NTS



1B / GI-302 BASIN CROSS SECTION B-B'
SCALE: NTS

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

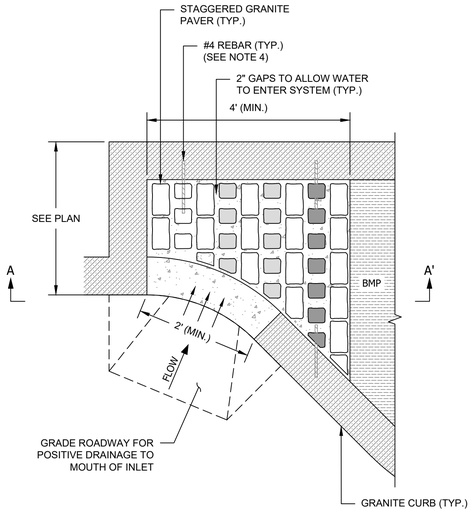
Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: GREEN INFRASTRUCTURE
BIOCELLS - 2 OF 2

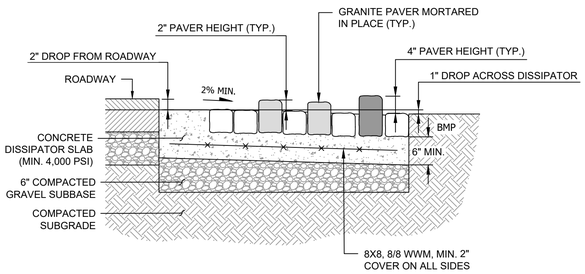
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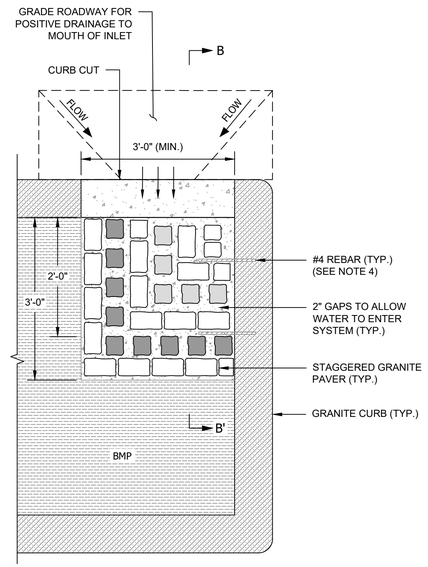


PLAN VIEW

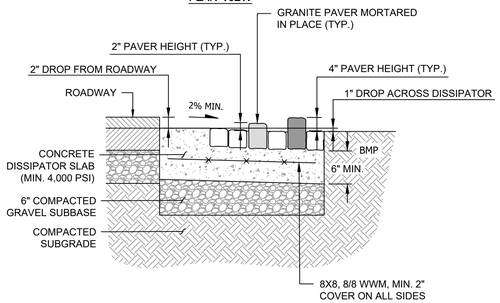


SECTION A-A'

1 GI-303 ENERGY DISSIPATOR (TYPE A)
SCALE: NTS



PLAN VIEW



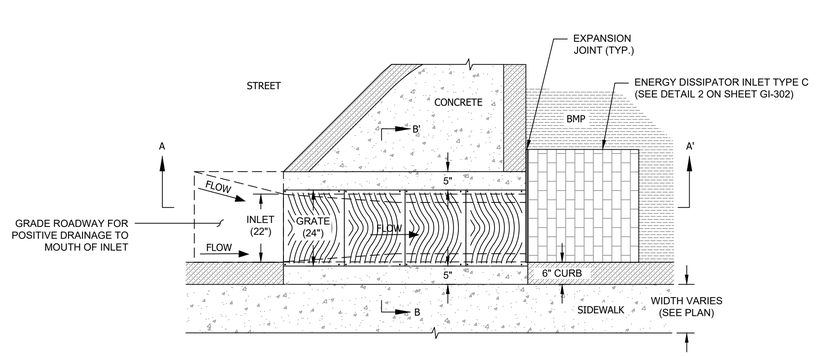
SECTION B-B'

2 GI-303 ENERGY DISSIPATOR (TYPE B)
SCALE: NTS

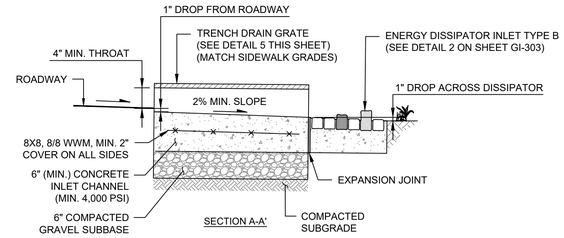
NOTES:

1. MORTARED JOINTS SHALL BE A CONCAVE TOOLED JOINT SET NO MORE THAN ¼" BELOW FINISHED SURFACE.
2. PROVIDE MIN. 4" X 4" X 8" PAVERS AND TRIM AS APPROPRIATE.
3. MINIMUM BLOCK LENGTHS MUST NOT BE LESS THAN 4".
4. PIN CONCRETE DISSIPATOR SLAB 4" INTO CURB WITH 12" LONG, #4 REBAR AS SHOWN. DRILL HOLES IN CURB AND SET WITH EPOXY. SEAL JOINT BETWEEN CURB AND DISSIPATOR SLAB WITH CAULK.
5. ALL BLOCKS SHOWN IN GRAY ARE RAISED AND BLOCKS SHOWN IN WHITE ARE FLUSH WITH GRADE.
6. UPON COMPLETION, SLOPES/ELEVATIONS MUST ALLOW POSITIVE DRAINAGE INTO SYSTEM WITH NO STANDING WATER ON DISSIPATOR.

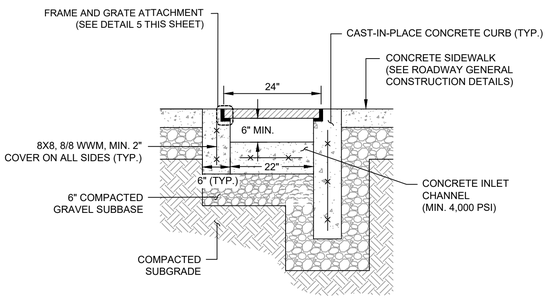
3 GI-303 ENERGY DISSIPATOR NOTES
SCALE: NTS



PLAN VIEW



SECTION A-A'



SECTION B-B'

4 GI-303 TRENCH DRAIN INLET (TYPE 1)
SCALE: NTS

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COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	NTS
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LTS
Drawn by	LTS
Checked by	GAA
Approved by	BMS

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

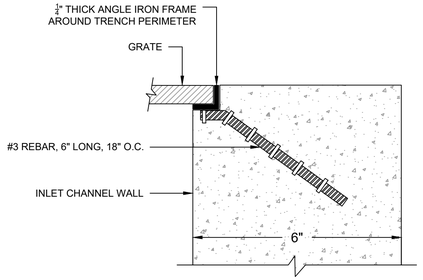
Drawing: GREEN INFRASTRUCTURE BIOCELL DETAILS - 1 OF 2

Sheet: GI-303

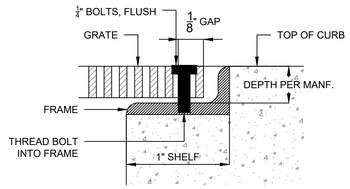
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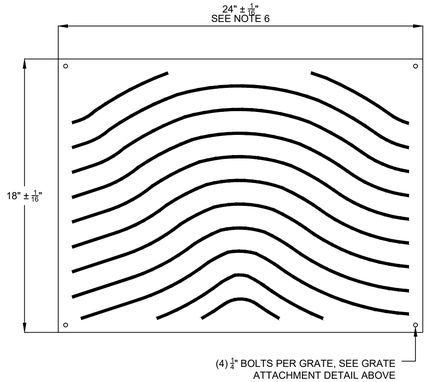
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FRAME DETAIL ENLARGEMENT

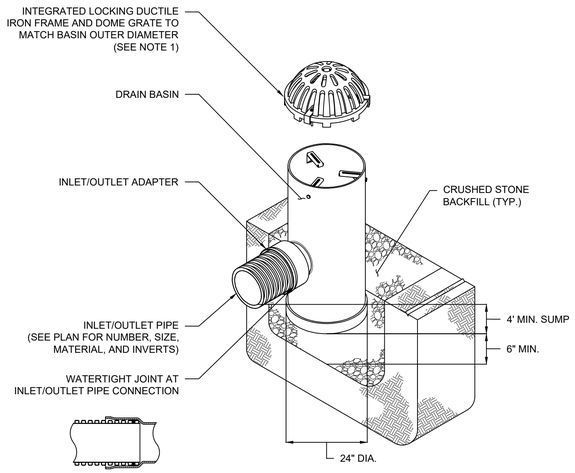


GRATE ATTACHMENT DETAIL ENLARGEMENT



NOTES:
1. CAST IRON FINISH.
2. NO OPENING GREATER THAN 3/8".
3. PROTECT THREADED HOLES IN FRAME FROM CLOGGING DURING FRAME INSTALLATION.
4. GRATE SHALL BE ADA COMPLIANT, BOLTABLE, AND RATED FOR H-20 LOADING, WITH A NON-SLIP SURFACE HAVING A STATIC COEFFICIENT OF FRICTION BETWEEN 0.6 AND 1.0. GRATES ON INCLINES GREATER THAN 4% SHALL HAVE A COEFFICIENT OF 0.80 TO 1.0.
5. WAVY GRATE AS SHOWN OR APPROVED ADA-COMPLIANT EQUIVALENT.
6. CONTRACTOR TO VERIFY SIDEWALK WIDTHS AT BIOCELL LOCATION TO DETERMINE CHANNEL FRAME AND GRATE TOTAL LENGTHS PRIOR TO PROCUREMENT OF MATERIALS. CUSTOM LENGTHS SHALL BE PROCURED AS REQUIRED TO SUIT SITE CONDITIONS.

5 GI-304 TRENCH DRAIN FRAME AND GRATE
SCALE: NTS



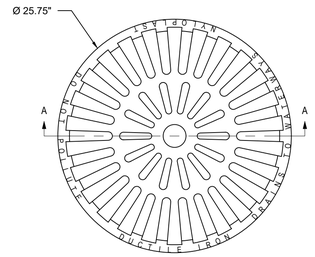
NOTES:
1. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE AND PVC SEWER.

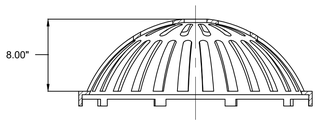
6 GI-304 24" PVC DRAIN BASIN
SCALE: NTS

ISOMETRIC

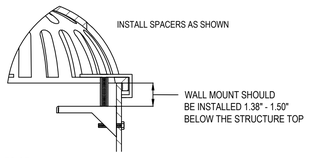
SECTION

8 GI-304 4" INLET NOTCH FOR BIORETENTION BASIN GRANITE CURB
SCALE: NTS





SECTION A-A'



NOTES:
1. MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05.
2. CASTINGS SHALL BE FURNISHED WITH BLACK PAINT.
3. INTEGRATED FRAME AND DOME GRATE SHALL HAVE LOCKING DEVICE.

7 GI-304 DRAIN BASIN FRAME AND DOME GRATE
SCALE: NTS

CONFORMED

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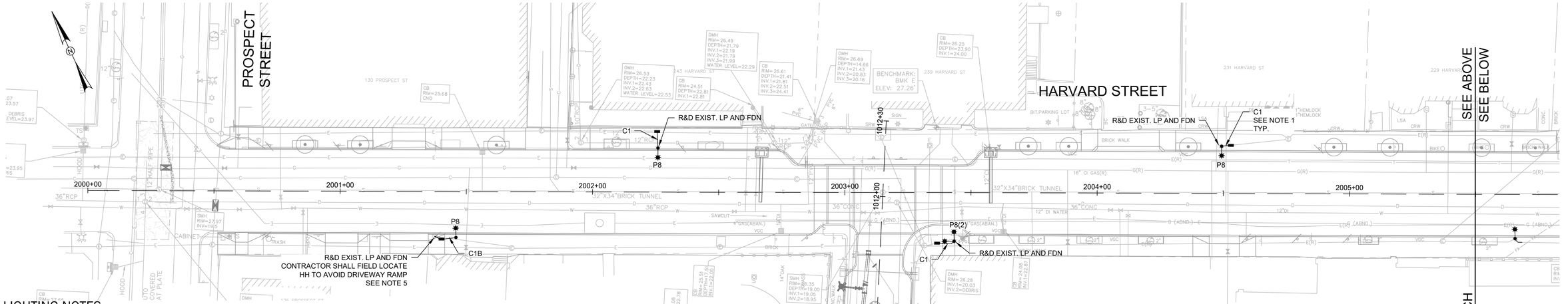
COMMONWEALTH OF MASSACHUSETTS
BENJAMIN M. STODDARD
CIVIL
No. 51854
REGISTERED PROFESSIONAL ENGINEER

Scale	NTS			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	LTS			
Drawn by	LTS			
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THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

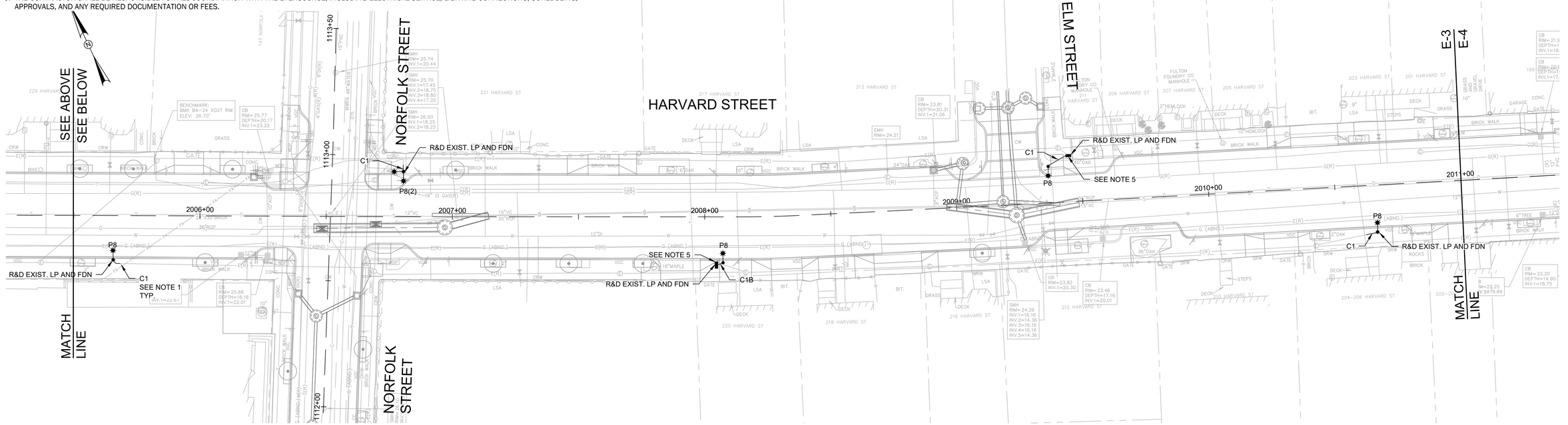
Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: GREEN INFRASTRUCTURE BIOCELL DETAILS - 2 OF 2
Sheet: GI-304
File No.: 30724

Plot date: 12/16/2025 4:49:05 PM



LIGHTING NOTES

1. CONTRACTOR SHALL SPLICE EXISTING FEEDER CONNECTION TO MANHOLE W/2#4, #6GND. CONTRACTOR TO ALLOW 5' OF NEW CABLE AND CONDUIT FROM POLE BASE TO SPLICE CONNECTION AT HANDHOLE. CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES AND CABLE WITH CED PRIOR TO START.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAMBRIDGE WHEN TAKING DOWN THE EXISTING STREET LIGHTING FIXTURES AND POLES AND DELIVERING THEM TO THE CITY BARN FOR STORAGE. ALL EXISTING STEEL POLES SHALL BE DISPOSED OF, ALUMINUM POLES AND FIXTURES SHALL BE DISPOSED OF OR DELIVERED TO CED AS DETERMINED BY CED. ALL FIXTURES ON REMOVED POLES SHALL BE TURNED OVER TO CED.
3. ALL EXISTING HANDHOLES BEING REUSED IN THIS PROJECT SHALL HAVE INSTALLED NEW FRAMES, COVERS, GROUND LUGS & CABLE
4. CONTRACTOR SHALL AVOID RUNNING UNDERGROUND CONDUIT WITHIN ROOT AREA OF TREES AS DETERMINED FROM TRUNK/DRIP LINE. UNLESS OTHERWISE APPROVED BY THE CITY ARBORIST AND ENGINEER.
5. CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING HANDHOLE TO INTERCEPT EXISTING LIGHTING CIRCUIT AND EXTEND CONDUIT AND WIRE TO NEW LIGHT POLE LOCATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE EVERSOURCE, INCLUDING ELECTRICAL SERVICE, LIGHTING CONNECTIONS, SCHEDULING, APPROVALS, AND ANY REQUIRED DOCUMENTATION OR FEES.



PLAN

SCALE: 1' = 20"

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
RONALD W. BURR
No. 29339
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KML
Drawn by	KML
Checked by	RWB
Approved by	RWB

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

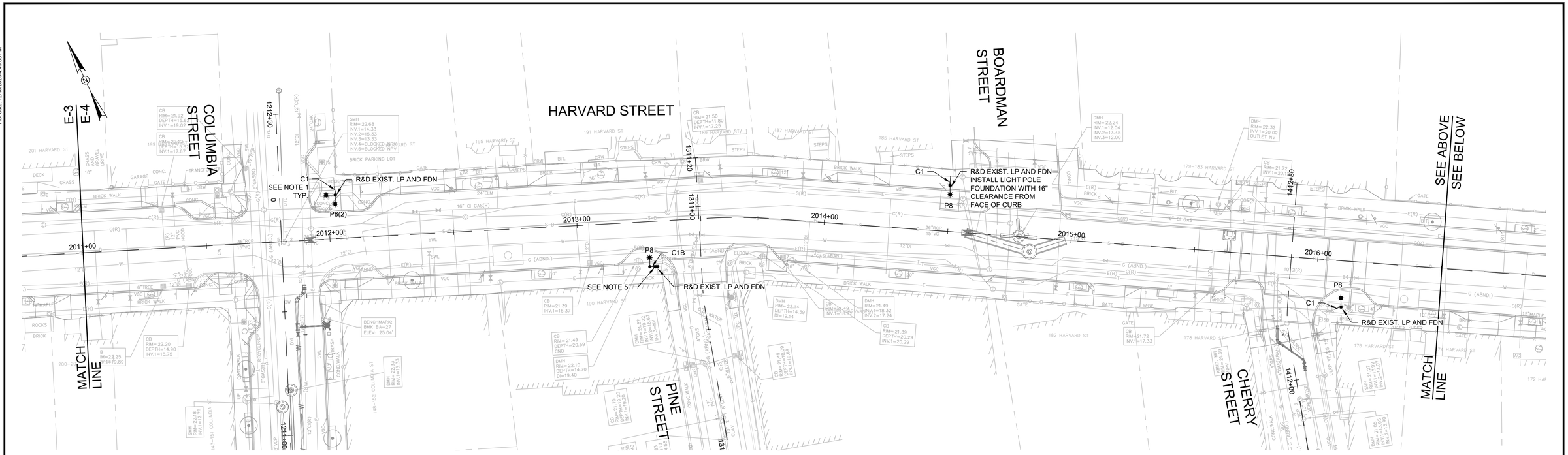
Drawing: LIGHTING
HARVARD STREET STA. 2000+00 TO STA. 2011+00

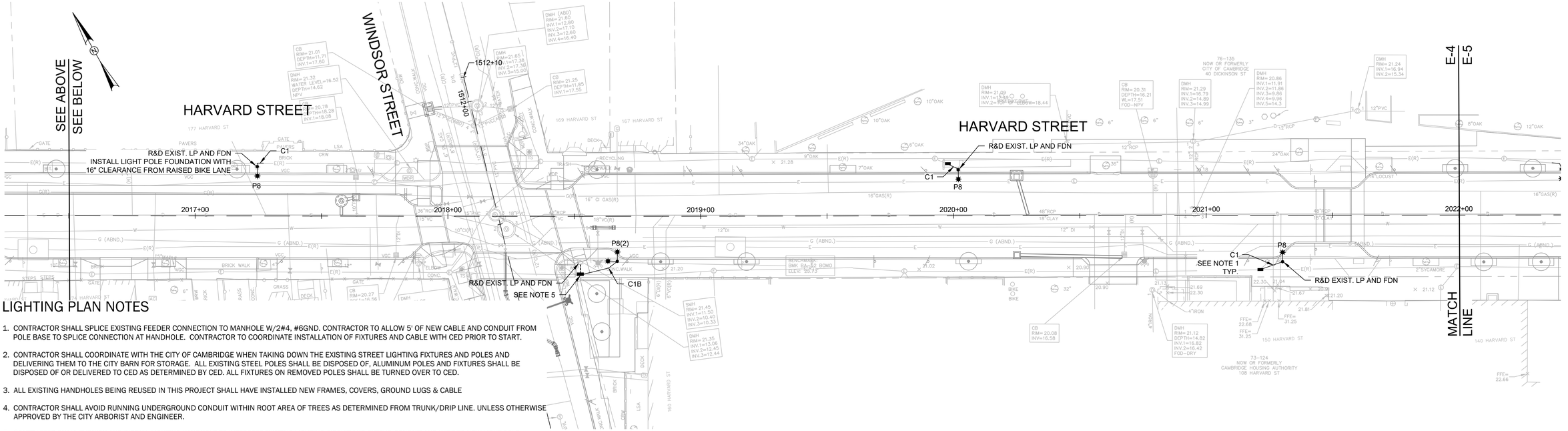
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File No.: 30724

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LIGHTING PLAN NOTES

1. CONTRACTOR SHALL SPLICE EXISTING FEEDER CONNECTION TO MANHOLE W/2#4, #6GND. CONTRACTOR TO ALLOW 5' OF NEW CABLE AND CONDUIT FROM POLE BASE TO SPLICE CONNECTION AT HANDHOLE. CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES AND CABLE WITH CED PRIOR TO START.
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PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

CONFORMED

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COMMONWEALTH OF MASSACHUSETTS
RONALD W. BUNK
No. 29338
REGISTERED PROFESSIONAL ENGINEER

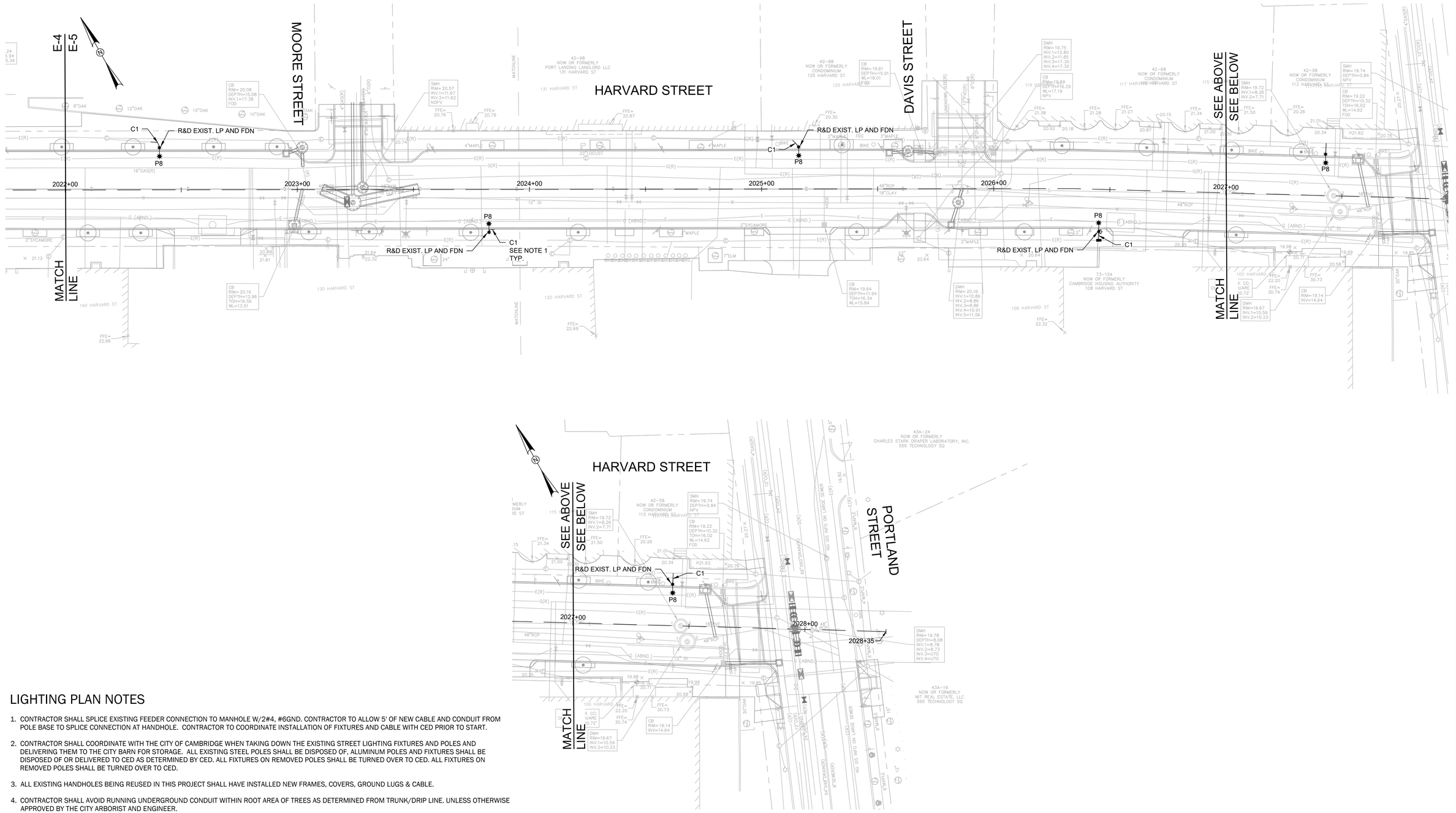
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Date	APRIL 2026			
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Designed by	KML			
Drawn by	KML			
Checked by	RWB	No.	Description	Date
Approved by	RWB	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: LIGHTING
HARVARD STREET STA. 2011+00 TO STA. 2022+00

Sheet: E-2
File No.: 30724

Plot date: 12/16/2025 4:49:05 PM



LIGHTING PLAN NOTES

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4. CONTRACTOR SHALL AVOID RUNNING UNDERGROUND CONDUIT WITHIN ROOT AREA OF TREES AS DETERMINED FROM TRUNK/DRIP LINE. UNLESS OTHERWISE APPROVED BY THE CITY ARBORIST AND ENGINEER.
5. CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING HANDHOLE TO INTERCEPT EXISTING LIGHTING CIRCUIT AND EXTEND CONDUIT AND WIRE TO NEW LIGHT POLE LOCATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE EVERSOURCE, INCLUDING ELECTRICAL SERVICE, LIGHTING CONNECTIONS, SCHEDULING, APPROVALS, AND ANY REQUIRED DOCUMENTATION OR FEES.

PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
RONALD W. BUNK
No. 29339
REGISTERED PROFESSIONAL ENGINEER

Scale	1" = 20'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	KML
Drawn by	KML
Checked by	RWB
Approved by	RWB

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

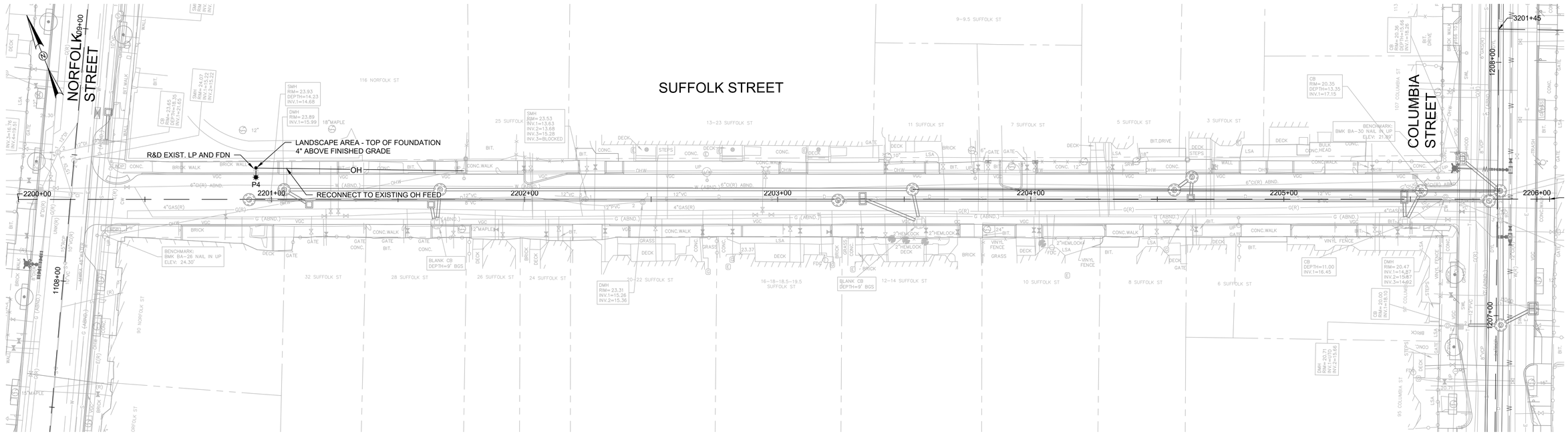
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HARVARD STREET STA. 2022+00 TO STA. 2028+35

Sheet: E-3

File No.: 30724

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PLAN
SCALE: 1" = 20"

0 20 40 60
SCALE: 1" =20' SCALE IN FEET

LIGHTING PLAN NOTES

1. CONTRACTOR SHALL SPLICE EXISTING FEEDER CONNECTION TO MANHOLE W/2#4, #6GND. CONTRACTOR TO ALLOW 5' OF NEW CABLE AND CONDUIT FROM POLE BASE TO SPLICE CONNECTION AT HANDHOLE. CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES AND CABLE WITH CED PRIOR TO START.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAMBRIDGE WHEN TAKING DOWN THE EXISTING STREET LIGHTING FIXTURES AND POLES AND DELIVERING THEM TO THE CITY BARN FOR STORAGE. ALL EXISTING STEEL POLES SHALL BE DISPOSED OF, ALUMINUM POLES AND FIXTURES SHALL BE DISPOSED OF OR DELIVERED TO CED AS DETERMINED BY CED. ALL FIXTURES ON REMOVED POLES SHALL BE TURNED OVER TO CED.
3. ALL EXISTING HANDHOLES BEING REUSED IN THIS PROJECT SHALL HAVE INSTALLED NEW FRAMES, COVERS, GROUND LUGS & CABLE
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COMMONWEALTH OF MASSACHUSETTS
RONALD W. BUNT
No. 24334
REGISTERED
PROFESSIONAL ENGINEER

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THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

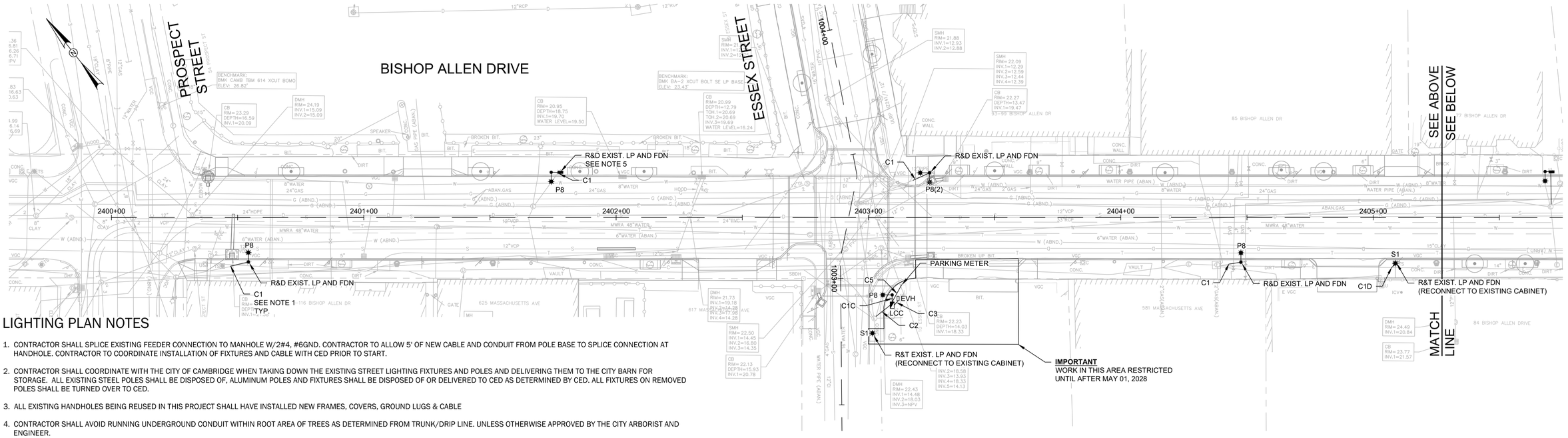
Drawing: LIGHTING
SUFFOLK STREET STA. 2200+00 TO STA. 2206+05

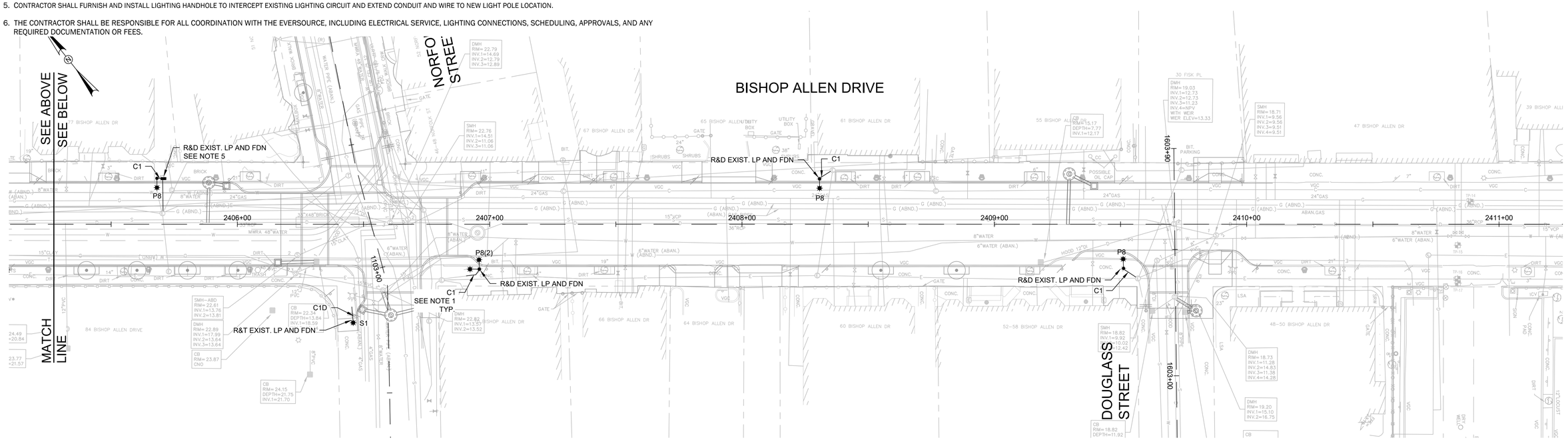
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File No.: 30724

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Plot date: 12/17/2025 8:58:38 AM





LIGHTING PLAN NOTES

1. CONTRACTOR SHALL SPLICE EXISTING FEEDER CONNECTION TO MANHOLE W/2#4, #6GND. CONTRACTOR TO ALLOW 5' OF NEW CABLE AND CONDUIT FROM POLE BASE TO SPLICE CONNECTION AT HANDHOLE. CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES AND CABLE WITH CED PRIOR TO START.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAMBRIDGE WHEN TAKING DOWN THE EXISTING STREET LIGHTING FIXTURES AND POLES AND DELIVERING THEM TO THE CITY BARN FOR STORAGE. ALL EXISTING STEEL POLES SHALL BE DISPOSED OF, ALUMINUM POLES AND FIXTURES SHALL BE DISPOSED OF OR DELIVERED TO CED AS DETERMINED BY CED. ALL FIXTURES ON REMOVED POLES SHALL BE TURNED OVER TO CED.
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PLAN
SCALE: 1" = 20'

0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

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Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

Drawing: LIGHTING
BISHOP ALLEN DRIVE STA. 2400+00 TO STA. 2410+75

Sheet: E-5

File No.: 30724

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LIGHTING FIXTURE LEGEND

TYPE P8: LED LIGHTING FIXTURE SINGLE POLE MOUNTED (80 LEDS)

TYPE P4: LED LIGHTING FIXTURE SINGLE POLE MOUNTED (40 LEDS)

TYPE P8(2): LED LIGHTING FIXTURE DOUBLE POLE MOUNTED

TYPE S1: CONTEMPORARY LED PEDESTRIAN LIGHT FIXTURE
W/GFI RECEPTACLE (FED FROM EXISTING CABINET)

ABBREVIATIONS

R&T REMOVE AND TRANSPORT
R&R REMOVE AND RESET
R&D REMOVE AND DISPOSE TO CED

ELECTRICAL LEGEND

LIGHTING HANDHOLE PRECAST QUAZITE TIER 22
CONFIRM WITH CITY OF CAMBRIDGE
W/ 3/4"x8' GROUND ROD & #4AWG GROUND WIRE

EVH — EV HANDHOLE PRECAST, 17"X30"X30", QUAZITE TIER 22

UH — UTILITY HANDHOLE, 30"X17"X18", H20 RATED

EHH — EXISTING ELECTRIC HANDHOLE

'LCC' — LIGHTING CONTROL CABINET 'LCC'

C1 — PROPOSED UNDERGROUND CONDUIT NO. C1

RUNS TO EXISTING MH TO BE CONFIRMED IN FEILD
(RUN NOT INCLUDED IN SURVEY)

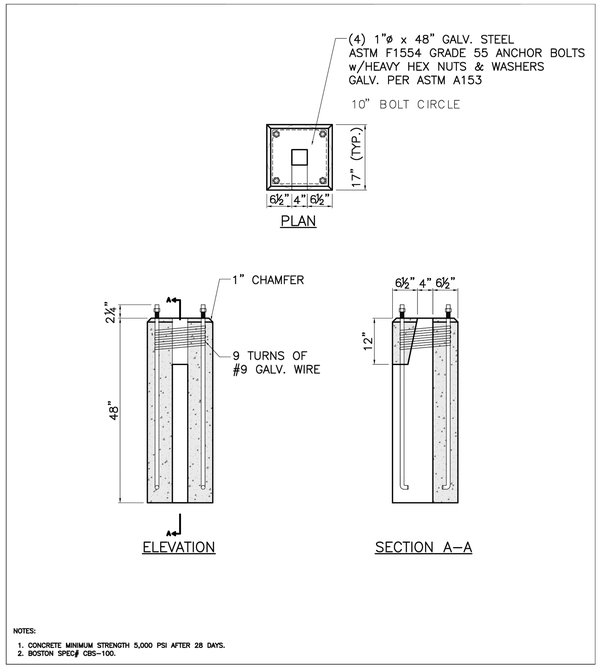
EXISTING CONDUIT AND WIRE TO BE REMOVED

CABLE AND CONDUIT SCHEDULE

CONDUIT NO.	CONDUIT SIZE	NO. WIRES	SIZE WIRE	GROUND WIRE	FROM	TO	PURPOSE	NOTE
C1	3"*	2	#4	#6	EXISTING MH VIA NEW LIGHTING HANDHOLE	POLE BASE HANDHOLE	LIGHT FIXTURE	SPLICE EXISTING FEEDER CIRCUIT NOTE 1
C1A	2"	2	#4	#6	EXISTING MH	POLE BASE HANDHOLE	LIGHT FIXTURE	NEW POLE LOCATION TO EXIST MANHOLE
C1B	3"*	2	#4	#6	EXISTING MH VIA NEW LIGHTING HANDHOLE	POLE BASE HANDHOLE	LIGHT FIXTURE	EXTEND FEED TO NEW POLE LOCATION
C1C	2"	2	#4	#6	LCC	POLE BASE HANDHOLE	LIGHT FIXTURE	NEW CONNECTION
C1D	2"	4	#4	#6	EXISTING MH VIA NEW LIGHTING HANDHOLE*	POLE BASE HANDHOLE	LIGHT FIXTURE	SPLICE EXISTING FEEDER CIRCUIT S1 FIXTURES
C1E	2"	2	#4	#6	LCC	POLE BASE HANDHOLE	LIGHT FIXTURE	NEW CONNECTION S1 FIXTURES
C2	4"	3	#3/0		EXISTING UTILITY MANHOLE VIA HH	LCC	LCC ELECTRICAL SERVICE	CONCRETE ENCASED GROUND AT HH
C3	2@4"	W/PULLWIRE			LCC	EV HANHOLE	FUTURE EV CONNECTION	
C4								
C5	1 1/2"	W/PULLWIRE			LCC	PARKING METER	METER	

NOTES

1. SPLIT DUCT CONDUIT IS ACCEPTABLE ONLY WHEN REQUIRED WHEN REPLACING EXISTING CONDUIT BACK TO MANHOLE.
2. IF EXISTING ORANGEBURG CONDUIT IS FOUND, REPLACE TO EVERSOURCE MANHOLE AS REQUIRED BY CED.
3. * MATCH EXISTING CONDUIT SIZE TO LIGHT POLE.

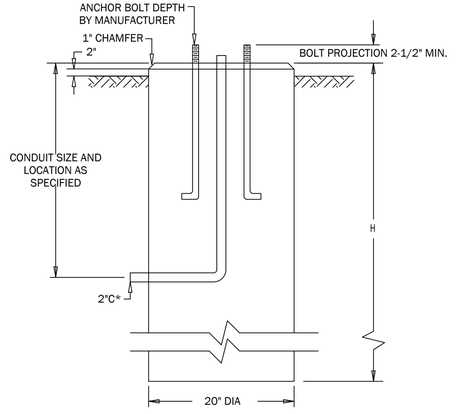


P8, P8(2), P4 PRECAST LIGHT STANDARD FOUNDATION

NOT TO SCALE

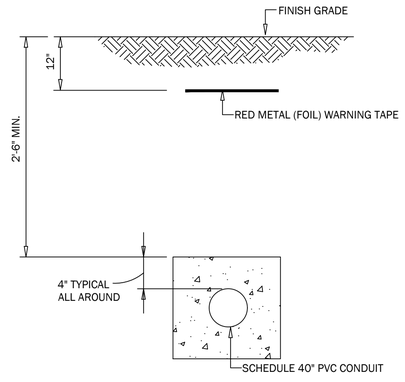
NOTES:

1. FOR LIGHT TYPE S1: 20-INCHES DIA; H=36-INCHES
2. CONCRETE 5000 PSI AFTER 28 DAYS
3. REINFORCING: 4 - #4 VERTICALLY AND #3 STIRRUPS 12" O.C. HORIZONTALLY (NOT SHOWN)
4. INSTALL FOUNDATION 6" FROM BACK OF CURB
5. WHEN INSTALLED IN LANDSCAPE AREA, INCREASE BASE HEIGHT TO 4" ABOVE SURFACE.
6. BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION. CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS BASED ON SELECTED MANUFACTURER.
7. * MATCH EXISTING CONDUIT SIZE TO LIGHT POLE.



S1 PRECAST LIGHT STANDARD FOUNDATION

NOT TO SCALE



UG CONCRETE ENCASED DUCTBACK

NOT TO SCALE

NOTE:
ALL CONDUITS SHALL BE ENCASED IN CONCRETE. NO REINFORCING REQUIRED.

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COMMONWEALTH OF MASSACHUSETTS
RONALD W. BUNK
No. 20139
REGISTERED
PROFESSIONAL ENGINEER

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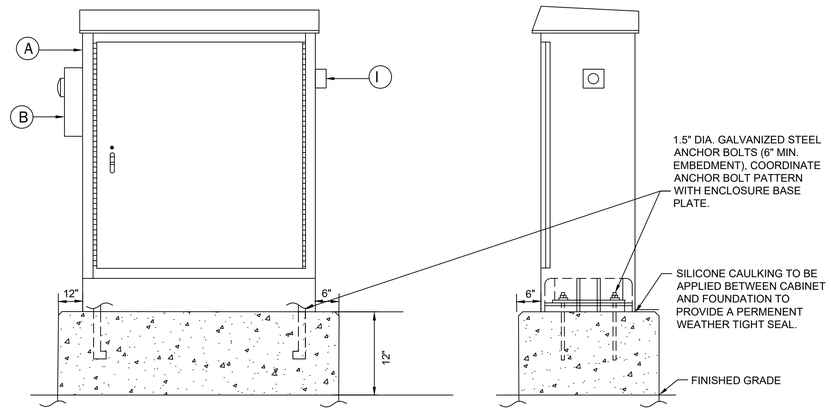
THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: LIGHTING - DETAILS SHEET 1 OF 3

Sheet: E-6
File No.: 30724

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LIGHTING CONTROL CABINET 'LCC' ELEVATIONS
NOT TO SCALE

EQUIPMENT LIST	
A	LIGHTING CONTROL CABINET 'LCC' 66"H X 30"W X 17"D" NEMA 3R MATERIAL: 0.125 5052-H32 ALUMINUM SHALL BE IN ACCORDANCE W/ CAMBRIDGE SPECIFICATIONS
B	UTILITY METER SOCKET: 200A, 120/208V, 3PH, 3W (CONFIRM PHASE)
C	EATON POWER PANEL, 120/208V, 3PH, 4W TOP 200 AMP MCB (LIGHTING) 12@1P, 20A BREAKERS, 12@SPARE BOTTOM 225MCB W/SHUNT (EV'S) 6@2P, 40A BREAKERS PHASE TO BE CONFIRMED
D	GFCI DUPLEX CONVENIENCE RECEPTACLE / LIGHT SWITCH COMBO: 120V, 20 AMP, GFCI (NEMA 5-20R) 4" SQ BOX W/MULBERRY COVER
E	1' LED LIGHT
F	STEEL BASE (CONFIRM)
G	ENCLOSURE BACKBOARD
H	EMERGENCY EV SHUT-OFF BUTTON NEMA 4X WITH BREAK GLASS TYPE GUARDED BUBBLE COVER W/ PUSHBUTTON.
I	10" WIREWAY

CABINET SPECIFICATIONS

1. MATERIAL: 0.125 5052-H32 ALUMINUM
2. NEMA TYPE: 3R RATING
3. VENTILATION ON THE DOOR AND ROOF OVERHANG
4. OPEN BOTTOM.
5. STAINLESS STEEL FULL LENGTH PIANO HINGE
6. SINGLE DOOR DESIGN WITH CAPTIVE DOOR RESTRAINT AND CORBIN LOCK.
7. STAINLESS STEEL PADLOCKABLE HANDLE, 3-POINT LATCHING MECHANISM WITH NYLON ROLLERS TOP AND BOTTOM
8. DOOR FRAME DOUBLE FLANGED ON ALL FOUR SIDES.
9. 3/4" PLYWOOD BACK PANEL PAINTED WHITE.
10. CABINET FINISH: NATURAL ALUMINUM MILL FINISH.
11. U.L. LISTED

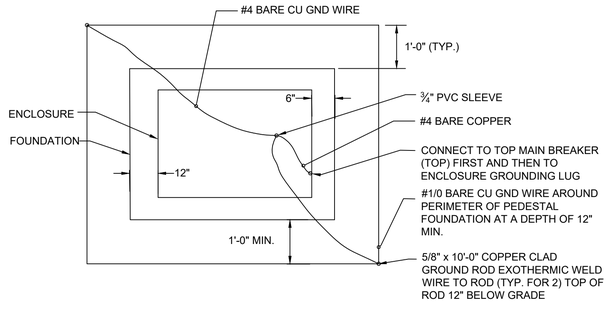
PNLBD 'P1'

EATON SPLIT BUS, TOP 200A MAIN BREAKER, BOTTOM 225A MAIN W/SHUNT TRIP, 120/208V, 3-PHASE, 4-WIRE, 10KAIC

CKT NO	BKR SIZE	LOAD DESCRIPTION	LOAD DESCRIPTION	BKR SIZE	CKT NO
1	20	CABINET LIGHT AND RECEPTACLE	SPARE	20	2
3	20	PARKING METER	SPARE	20	4
5	20	LIGHTING	SPARE	20	6
7	20	SPARE	SPARE	20	8
9	20	SPARE	SPARE	20	10
11	20	SPARE	SPARE	20	12
13	20	SPARE	SPARE	20	14
15	20	SPARE	SPARE	20	16
17	-	SPACE	SPACE	-	18
19	-	SPACE	SPACE	-	20
21	-	SPACE	SPACE	-	22
23	-	SPACE	SPACE	-	24
1	40	FUTURE EV CHARGER 2-POLE	FUTURE EV CHARGER 2-POLE	40	2
3	20	FUTURE EV CHARGER 2-POLE	FUTURE EV CHARGER 2-POLE	20	4
5	20	FUTURE EV CHARGER 2-POLE	FUTURE EV CHARGER 2-POLE	20	6

1. CONTRACTOR SHALL COORDINATE SERVICE AND CABINET COMPONENTS WITH CITY OF CAMBRIDGE.
   CAMBRIDGE ELECTRICIAN CONTACT:
   MARK MELO / JOE MCCARTHY 617-349-4925
   EMAIL:
   JMCCARTHY@CAMBRIDGEMA.GOV
   MAMELO@CAMBRIDGEMA.GOV

LIGHTING CONTROL CABINET 'LCC' DETAIL
NOT TO SCALE



TYPICAL LIGHTING LOAD CENTER GROUNDING PLAN
NOT TO SCALE

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Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LIGHTING - DETAILS SHEET 2 OF 3

Sheet: E-7

File No.: 30724

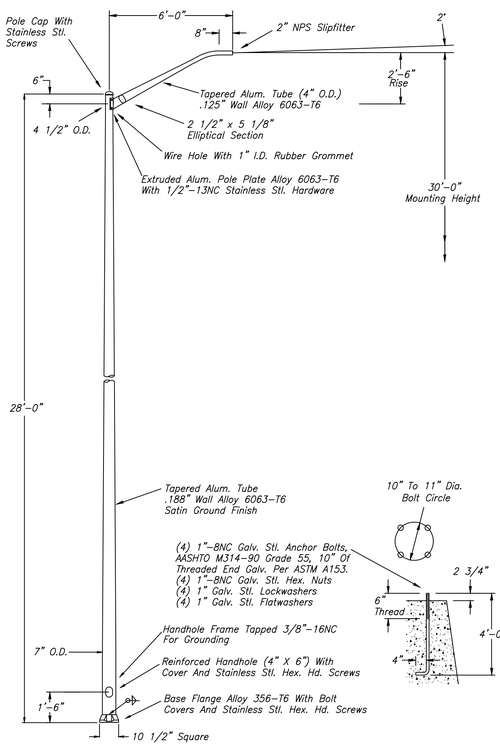
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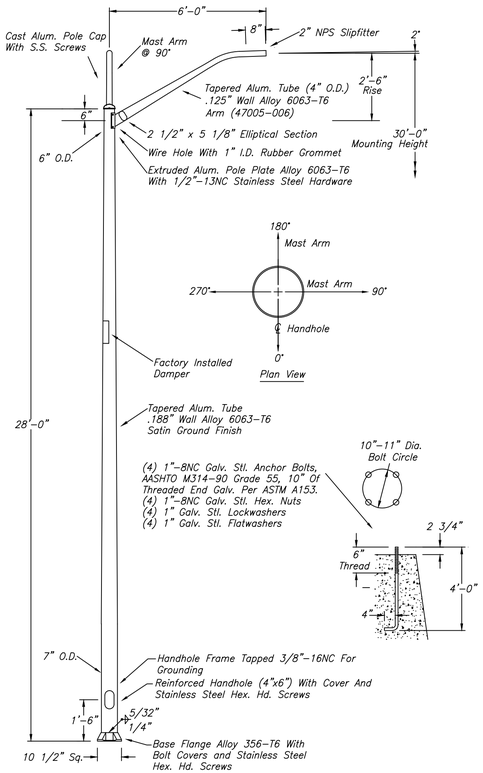
LUMINAIRE SCHEDULE

SYMBOL	CATALOG NO.	POLE	LUMINAIRE	ARM	FINISH	TEMP	DIST	WATT
P8	POLE /ARM HAPCO CAT. SEE DETAIL LED FIXTURE CREE CAT STR LWY 2S HT 08 E UL SV 525 35K DIM R	28' TAPERED ALUMINUM POLE	LED COBRA DIMONOFF RME CONTROLLER AND ANTENNA* *ANTENNA NOT INSTALLED BY MANUFACTURER, CONTRACTOR TO INSTALL IN FIELD. W/7 PIN RECEPTACLE (CONFIRM ANTENNA INSTALLATION)	TAPERED ALUMINUM MAST ARM - SINGLE	-	35K	II	139W
P8(2)	POLE /ARM HAPCO CAT. SEE DETAIL LED FIXTURE CREE CAT STR LWY 2S HT 08 E UL SV 525 35K DIM R	28' TAPERED ALUMINUM POLE	LED COBRA DIMONOFF RME CONTROLLER AND ANTENNA* *ANTENNA NOT INSTALLED BY MANUFACTURER, CONTRACTOR TO INSTALL IN FIELD. W/7 PIN RECEPTACLE (CONFIRM ANTENNA INSTALLATION)	TAPERED ALUMINUM MAST ARM - TWIN 90	-	35K	II	139W
P4	POLE /ARM HAPCO CAT. SEE DETAIL LED FIXTURE CREE CAT STR LWY 2S HT 04 E UL SV 525 35K DIM R	28' TAPERED ALUMINUM POLE	LED COBRA DIMONOFF RME CONTROLLER AND ANTENNA* *ANTENNA NOT INSTALLED BY MANUFACTURER, CONTRACTOR TO INSTALL IN FIELD. W/7 PIN RECEPTACLE (CONFIRM ANTENNA INSTALLATION)	TAPERED ALUMINUM MAST ARM - SINGLE	-	35K	II	66W
S1	POLE SELUX CAT. S35-14-BK-BC1-REC-SM11131 LED FIXTURE SELUX CAT. SACL-1-LG3700-R3-50-15-BK-120	14' STEEL ROUND POLE TENON MOUNTING W/RECEPTACLE	LED CONTEMPORARY POST TOP FIXTURE ALUMINUM HOOD, COVER AND SUPPORTS DIMONOFF RME AND ANTENNA* *ANTENNA NOT INSTALLED BY MANUFACTURER, CONTRACTOR TO INSTALL IN FIELD. W/7 PIN RECEPTACLE (CONFIRM ANTENNA INSTALLATION)	NONE	BLACK	35K	VS	47W

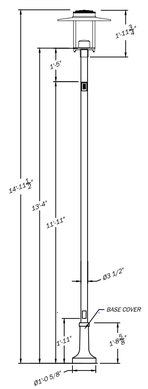
ALL FIXTURES, POLES AND ARMS SHALL MATCH CURRENT CITY OF CAMBRIDGE STANDARDS AND SPECIFICATIONS.



TYPE P8/B4 - POLE NO. B21-575
NOT TO SCALE



TYPE P8(2) - POLE NO. B21-575
NOT TO SCALE



TYPE S1
NOT TO SCALE

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THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: LIGHTING - DETAILS SHEET 3 OF 3
Sheet: E-8
File No.: 30724

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POWER SYMBOLS

	120/240V PANELBOARD, SURFACE MOUNTED.
HH-X	HANDHOLE, DENOTES THE HANDHOLE ID TAG
UGE	UNDERGROUND ELECTRIC
SPD	SURGE PROTECTIVE DEVICE
	UTILITY METER
	GROUND ROD

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ADA	AMERICAN DISABILITY ACT
AWG	AMERICAN WIRE GAUGE
A	AMPERE(S)
AIC	AMPERE INTERRUPTING CAPACITY
AFC	ARC FAULT CIRCUIT INTERRUPTER
ATS	AUTOMATIC TRANSFER SWITCH
BATT	BATTERY
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BPS	BOLTED PRESSURE SWITCH
BLDG	BUILDING
CATV	CABLE TELEVISION
C	CONDUIT
CLG	CEILING
CKT	CIRCUIT
C/B	CIRCUIT BREAKER
CONT	CONTINUATION
CU	COPPER
CT	CURRENT TRANSFORMER
Δ	DELTA CONNECTED
DC	DIRECT CURRENT
DISC	DISCONNECT
2F	DOUBLE POLE
DWG	DRAWING
DE/TD	DUAL ELEMENT / TIME DELAY
EMT	ELECTRICAL METALLIC TUBING
E	EMERGENCY
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EMS	ENERGY MANAGEMENT SYSTEM
EV	ELECTRIC VEHICLE
EF	EXHAUST FAN
EX	EXISTING
ER	EXISTING RELOCATED
ETR	EXISTING TO REMAIN
FT	FEET
4P	FOUR POLE
FLA	FULL LOAD AMPERES
F	FUSED OR FUSIBLE
FSS	FUSED SAFETY SWITCH
FS	FUSED SWITCH
G/GRD	GROUND
GB	GROUND BAR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTOMATIC
HZ	HERTZ
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HP	HORSEPOWER
IG	ISOLATED GROUND
J/JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LTG	LIGHTING
LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MGB	MAIN GROUND BAR
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MISC	MISCELLANEOUS
MTD	MOUNTED
MH	MOUNTING HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT (UNSWITCHED)
NFSS	NON-FUSED SAFETY SWITCH
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
PNL	PANELBOARD
∅ / PH	PHASE
P	POLE
PVC	POLYVINYL CHLORIDE
PT	POTENTIAL TRANSFORMER
PWR	POWER
PF	POWER FACTOR
PRI	PRIMARY
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RL	REMOVE AND RETAIN FOR RELOCATION
RM	ROOM
RMS	ROOT MEAN SQUARE
RX	REMOVE EXISTING
SS	STAINLESS STEEL
SEC	SECONDARY
SD	SERVICE DISCONNECT
Isc	SHORT CIRCUIT CURRENT (RMS SYMMETRICAL AMPERES)
SCCR	SHORT CIRCUIT CURRENT RATING
1P	SINGLE POLE
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TMS	THERMAL MANUAL SWITCH
KCM	THOUSAND CIRCULAR MILS
3P	THREE POLE
XFMR	TRANSFORMER
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT-AMPERE
WH	WATER HEATER
W	WATTS, WIRE
WP	WEATHERPROOF
W/	WITH
WCR	WITHSTAND AND CLOSE-ON RATING
Y	WYE CONNECTED

GENERAL NOTES

1. PROVIDE LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND SHOWN ON THE CONTRACT DRAWINGS. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR FURNISHING AND INSTALLING COMPLETE AND OPERABLE SYSTEMS.
2. "DRAWING NOTES" APPLY TO WORK ON THAT INDIVIDUAL DRAWING. "SPECIFIC NOTES" APPLY ONLY WHERE INDICATED WITH THE "SPECIFIC NOTE" SYMBOL.
3. WIRE AND CONDUIT SIZES ARE BASED ON COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE.
4. UNLESS OTHERWISE NOTED, CIRCUITS HAVE NOT BEEN DERATED FOR CONDUCTOR BUNDLING, NOR HAVE CONDUITS BEEN SIZED FOR MULTIPLE CIRCUITS. IF MULTIPLE CIRCUITS ARE INSTALLED IN A SINGLE RACEWAY, DERATE CONDUCTOR AMPACITY PER NEC, AND PROVIDE APPROPRIATE SIZE CONDUIT. WHERE CONDUIT SIZE INCREASES, COORDINATE WITH ADJACENT UTILITIES AND BUILDING FEATURES.
5. INCLUDE IN THE BID PRICE THE PAYMENT OF NECESSARY PERMITS. FURNISH THE OWNER PRIOR TO THE FINAL PAYMENT A CERTIFICATE FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION CERTIFYING THAT THE ELECTRICAL WORK MEETS THE REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITIES AND/OR THE NATIONAL BOARD OF FIRE UNDERWRITERS.
6. COORDINATE WITH OWNER S REPRESENTATIVE FOR SCHEDULING OF WORK.
7. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
8. KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH GENERATED BY WORK FROM THIS CONTRACT. PROPERLY AND LEGALLY DISPOSE OF MATERIALS.
9. JOB SITE SAFETY SHALL BE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
10. DRAWINGS SHALL NOT BE SCALED. LOCATIONS OF ELECTRICAL EQUIPMENT AND CONDUIT ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT LOCATIONS IN FIELD.
11. COORDINATE WORK WITH OTHER TRADES. CIVIL, AND OTHER DRAWINGS AND SPECIFICATIONS SHALL BE CONSULTED AND COORDINATED WITH PRIOR TO ROUGH-IN.
12. WHEN MOUNTING ELECTRICAL WORK IN AREAS SUBJECT TO PEDESTRIAN TRAFFIC, MAINTAIN REQUIRED HEADROOM CLEARANCES.
13. WHEREVER POSSIBLE, OBTAIN ACTUAL ROUGH-IN DRAWINGS FOR EQUIPMENT TO BE INSTALLED PRIOR TO ROUGH-IN. FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT, WHETHER FURNISHED UNDER THIS DIVISION, ANOTHER DIVISION, OR BY OTHERS, SHALL BE MADE UNDER THIS DIVISION. FINAL CONNECTIONS TO EQUIPMENT SHALL CONSIST OF SAME SIZE PHASE CONDUCTORS, NEUTRAL CONDUCTORS (AS APPLICABLE), GROUND CONDUCTORS, CONTROL CONDUCTORS (AS APPLICABLE), AND CONDUIT SIZES AS INDICATED ELSEWHERE.
14. PROVIDE TYPED CIRCUIT DIRECTORIES FOR NEW AND EXISTING PANELBOARDS TO INDICATE TYPE OF LOAD SERVED AND AREA SERVED (E.G. RECEPTACLES-OFFICE 201).
15. PROVIDE SEPARATE UNSHARED NEUTRAL CONDUCTOR(S) FOR EACH CIRCUIT UTILIZING A NEUTRAL. UNLESS SPECIFICALLY INDICATED OTHERWISE, MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED.
16. IF APPLICABLE, FURNISH PANELBOARD WITH NUMBER OF POLES INDICATED. EACH SPACE SHALL BE A FULLY PREPARED SPACE (I.E. COMPLETE WITH PROVISIONS AND HARDWARE REQUIRED TO MOUNT A FUTURE CIRCUIT BREAKER, INCLUDING BUS CONNECTIONS, CIRCUIT BREAKER MOUNTING BRACKET, CIRCUIT BREAKER COVER AND COVER KNOCKOUTS, ETC.).
17. VERIFY ELECTRICAL SYSTEM PHASING AND ROTATION WITH UTILITY COMPANY.
18. PROVIDE TRENCHING AND BACKFILL FOR BURIED ELECTRICAL DUCT BANKS, UNLESS NOTED OTHERWISE. COORDINATE UNDERGROUND CIRCUIT INSTALLATION WITH OTHER EXISTING AND PROPOSED UNDERGROUND UTILITIES. ENGAGE THE SERVICES OF A UTILITY LOCATING FIRM PRIOR TO EXCAVATION.
19. ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UL LISTED AND SHALL CONFORM TO FACTORY MUTUAL STANDARDS AS APPLICABLE.
20. THE ENTIRE ELECTRICAL INSTALLATION, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION, UNLESS A LONGER WARRANTY PERIOD IS REQUIRED ELSEWHERE IN CONTRACT DOCUMENTS.
21. CONDUIT, FITTINGS, AND JUNCTION BOXES SHALL BE SUITABLE FOR THE AREA CLASSIFICATION IN WHICH THEY ARE TO BE INSTALLED.
22. ALL UNDERGROUND CONDUIT TO BE CONCRETE ENCASED PVC SCHEDULE 40 UNO.
23. ALL ABOVE GROUND CONDUIT TO BE PVC COATED RGS TYPE UNO.

DRAWING LIST - ELECTRICAL

SHEET NUMBER	DRAWING TITLE
EV-1	SYMBOLS, NOTES & ABBREVIATIONS
EV-2	ELECTRICAL SITE PLAN - HARVARD & COLUMBIA STREET
EV-3	ELECTRICAL DETAILS
EV-4	ELECTRICAL RISER DIAGRAMS AND PANEL SCHEDULES

CONFORMED

KLEINFELDER Bright People. Right Solutions.

Stantec

COMMONWEALTH OF MASSACHUSETTS — RONALD ERNE ELECTRICAL — 59004 — REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED
Date	APRIL 2026
Job No.	20201034.009A
Designed by	AB
Drawn by	AK
Checked by	ST
Approved by	--

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: SYMBOLS, NOTES & ABBREVIATIONS

Sheet: EV-1

File No.

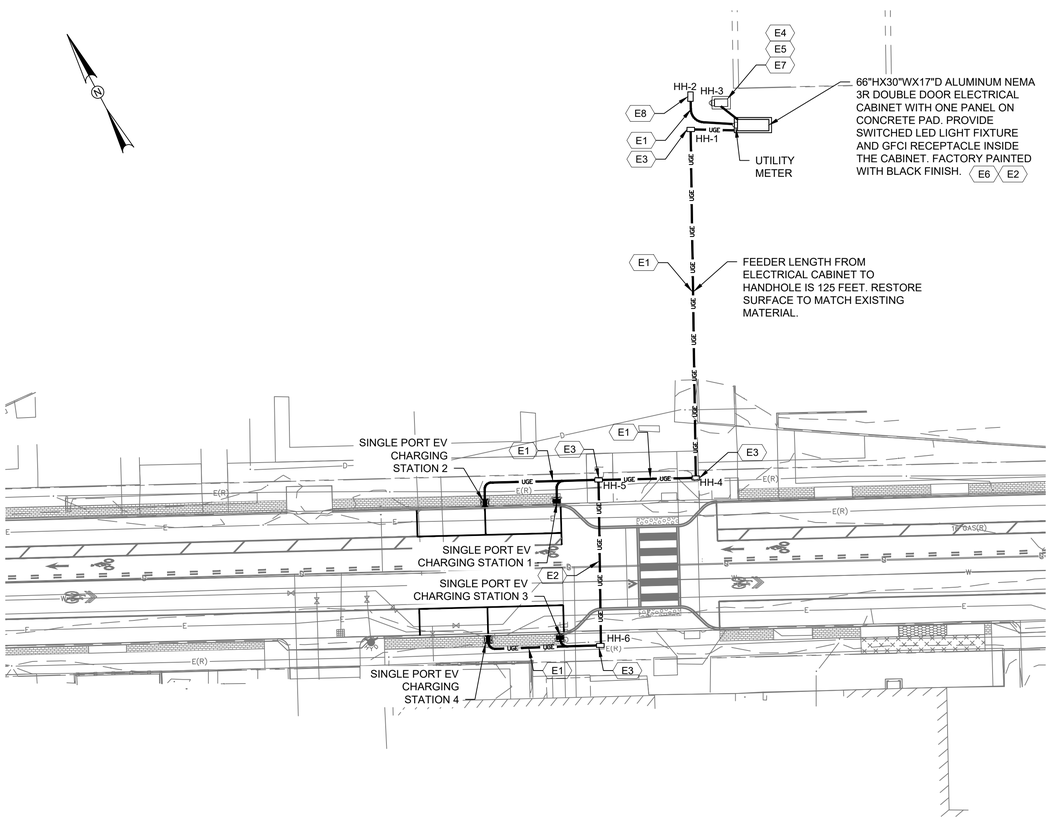
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Plot date: 12/17/2025 8:49:23 AM

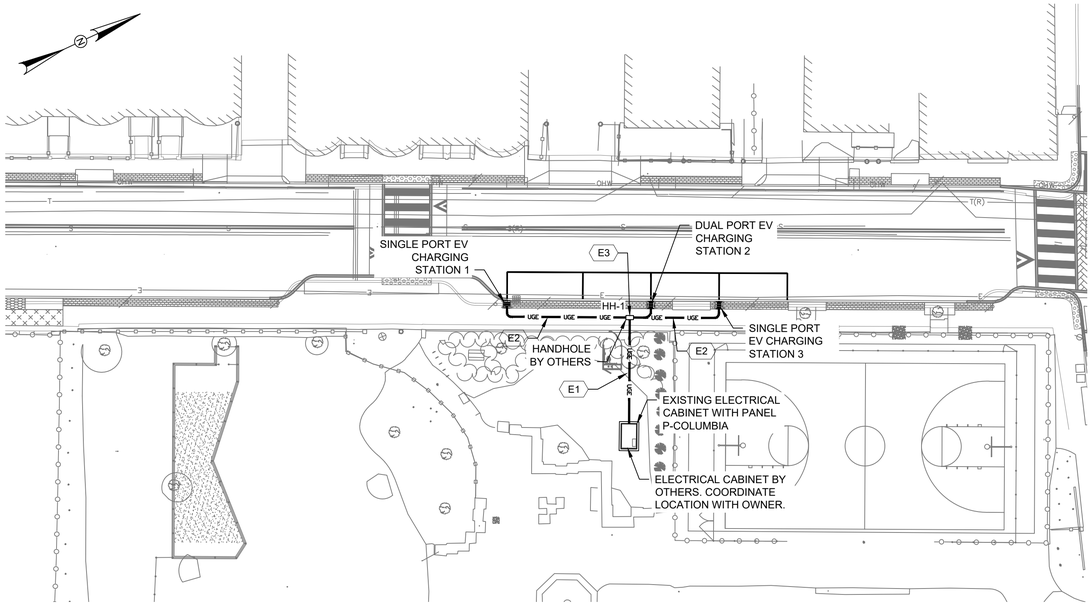
SPECIFIC NOTES - ELECTRICAL NEW	
E1	2-WAY CONCRETE ENCASED DUCTBANK.
E2	INSTALL 10" MINIMUM METAL TROUGH FOR SECONDARY CONDUIT CABLE PROTECTION.
E3	PROVIDE ELECTRICAL HANDHOLE 17"WX30"LX30"D TIER 22 RATED.
E4	EXISTING ELECTRICAL CABINET HAS SERVICE ENTRANCE TAP BOX, TWO LOAD CENTERS, GFCI RECEPTACLES, LUMINII DRIVER/BALLAST, LEGRAND DRIVER/BALLAST, POWER PACK, AND CONTROL DEVICES. EXISTING UNDERGROUND METAL PIT IS UNDER THE CABINET FOR SERVICE ENTRANCE, POLE LIGHTS, RECEPTACLES, IRR CNT, CONTROL, SPRAY PL, AND PUMP P1 WIRING. ONCE NEW ELECTRICAL CABINET HAS BEEN INSTALLED, DISCONNECT AND REMOVE ELECTRICAL CABINET IN ITS ENTIRETY. REMOVE SERVICE ENTRANCE WIRING, TAP BOX, AND UNDERGROUND METAL PIT. RETAIN LOAD WIRING AND CONDUIT STUBS FOR REUSE.
E5	TEMPORARILY PROVIDE LIGHTING CONTACTOR WITH ADJUSTABLE TIME CLOCK AS NEEDED FOR LIGHITNG CONTROL DURING CONSTRUCTION PERIOD.
E6	PROVIDE DRIVERS/BALLASTS AND CONTROL DEVICES MATCHING EXISTING. PROVIDE DIMMABLE ON/OFF CONTROL WITH TIME CLOCK.
E7	PROVIDE TIER 22 HANDHOLE IN EXISTING METAL PIT LOCATION TO ALLOW FOR EXTENSION OF EXISTING LOAD WIRING TO NEW ELECTRICAL CABINET.
E8	PROVIDE EVERSOURCE REQUIRED HANDHOLE FLUSHED WITH SIDE WALK. THERE IS AN EXISTING HANDHOLE ON SIDEWALK AT FRONT OF METER. VERIFY AND COORDINATE WITH EVERSOURCE IF EXISTING HANDHOLE CAN BE USED. CONTRACTOR SHALL APPLY FOR SERVICE UPGRADE AND COORDINATE REQUIREMENTS AND RESPONSIBILITIES WITH EVERSOURCE UTILITY POWER COMPANY.

DRAWING NOTES:

1. REFER TO DRAWING EV-1 FOR SYMBOLS, NOTES & ABBREVIATIONS.
2. REFER TO RISER DIAGRAM ON DRAWING EV-4 FOR WIRING AND CONDUIT SIZES.
3. REFER TO DRAWING EV-3 FOR UNDERGROUND DUCTBANK DETAILS.



1 ELECTRICAL SITE PLAN - HARVARD STREET
1" = 20'-0"



2 ELECTRICAL SITE PLAN - COLUMBIA STREET
1" = 20'-0"

0 20 40
SCALE: 1" = 20' SCALE IN FEET

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COMMONWEALTH OF MASSACHUSETTS
59004
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
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THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

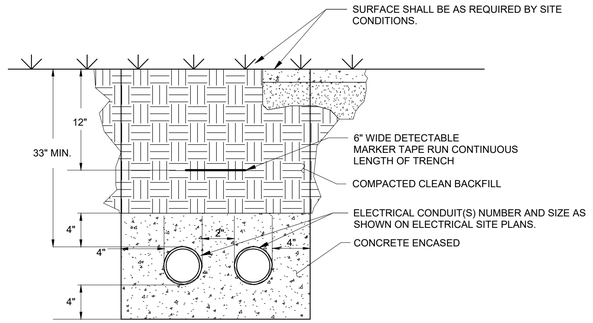
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: SITE PLAN ELECTRICAL - HARVARD & COLUMBIA STREET

Sheet: EV-2

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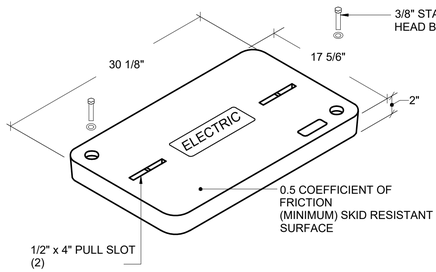
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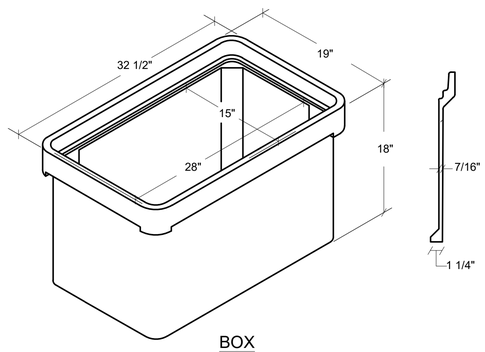
1 UNDERGROUND DUCT BANK DETAIL (2-WAY)
NO SCALE

HANDHOLE NOTES:

1. HANDHOLE SHALL BE EVERSOURCE STANDARD COMPOSITE HANDHOLE WITH OPEN BOTTOM AND H-20 RATED.
2. COVER SHALL BE MARKED WITH "ELECTRIC".



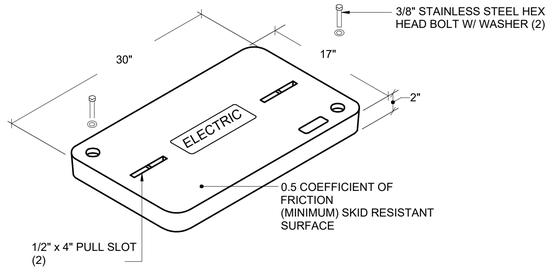
COVER



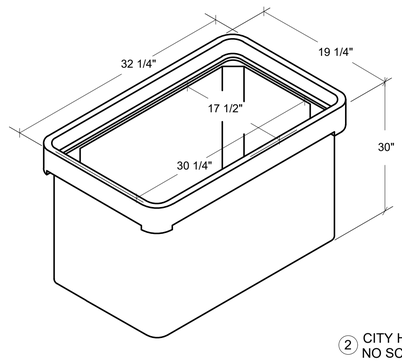
BOX

3 EVERSOURCE HANDHOLE DETAIL
NO SCALE

COVER



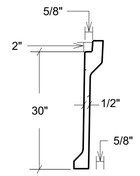
BOX



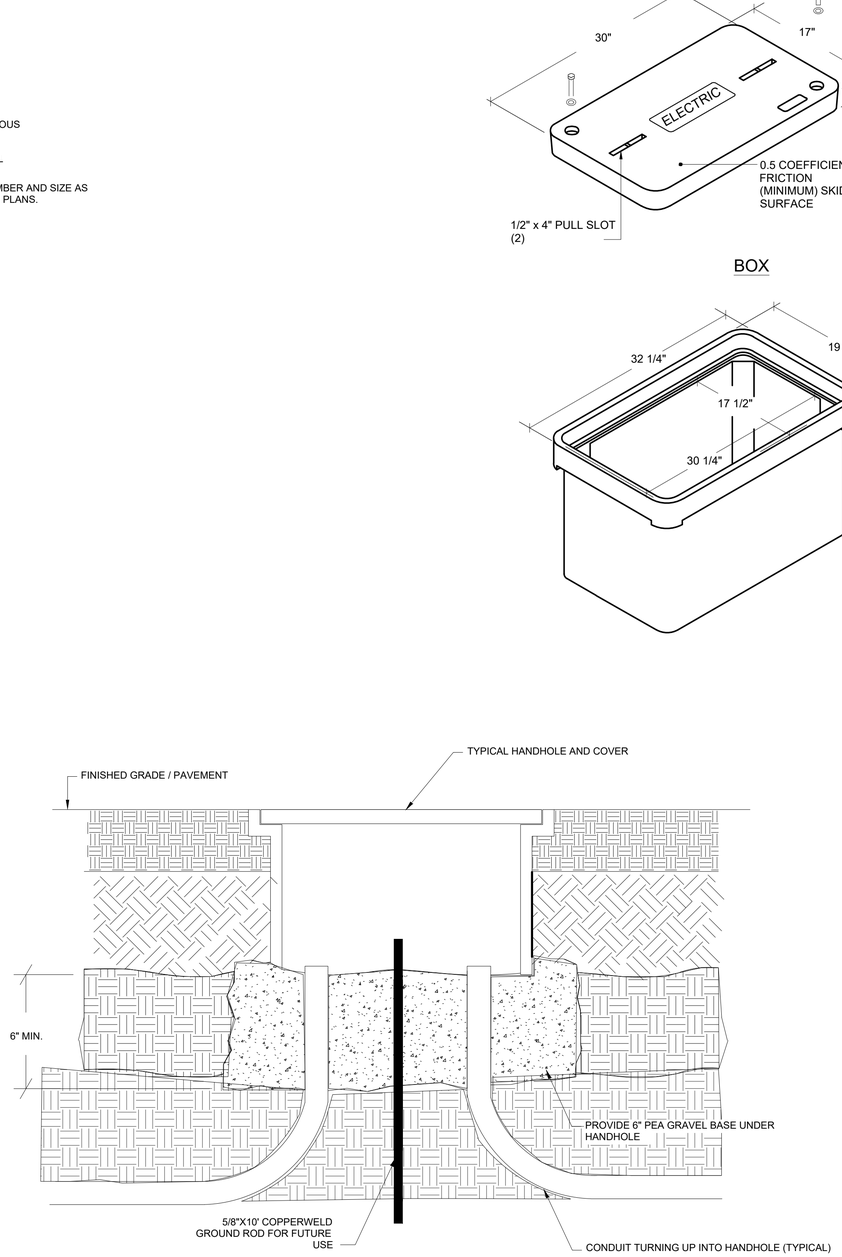
2 CITY HANDHOLE DETAILS
NO SCALE

HANDHOLE NOTES:

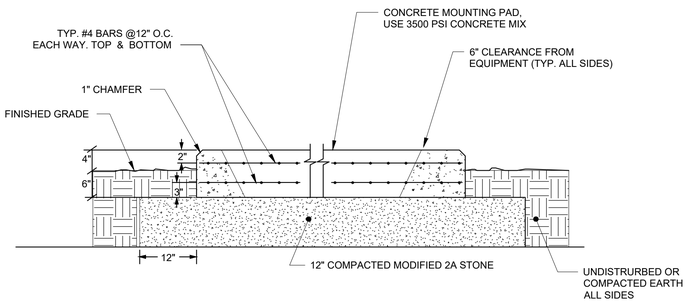
1. HANDHOLE SHALL BE CAMBRIDGE STANDARD HANDHOLE AND TIER 22 RATED.
2. COVER SHALL BE MARKED WITH "ELECTRIC".
3. REFER TO THE HANDHOLE DETAILS BELOW FOR CONDUIT TURNING INTO THE BOTTOM OF HANDHOLE.



SECTION A-A



4 HANDHOLE INSTALLATION DETAIL
NO SCALE



5 CONCRETE PAD DETAIL (FOR ELECTRICAL CABINET)
NO SCALE

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COMMONWEALTH OF MASSACHUSETTS
59004
REGISTERED PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	AB			
Drawn by	AK			
Checked by	ST	No.	Description	Date
Approved by	--	REVISIONS		

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

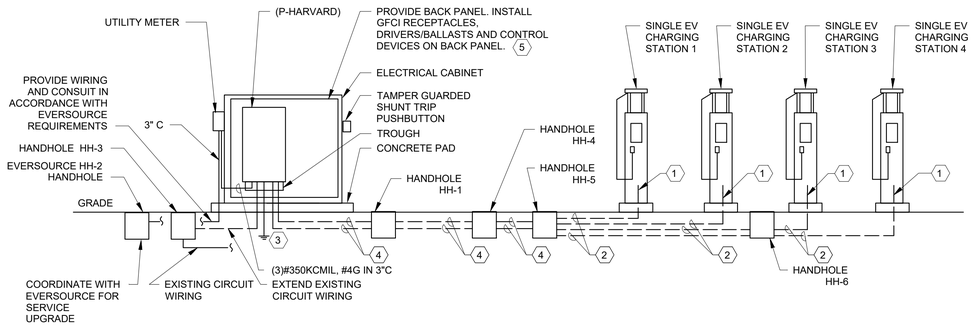
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: ELECTRICAL DETAILS

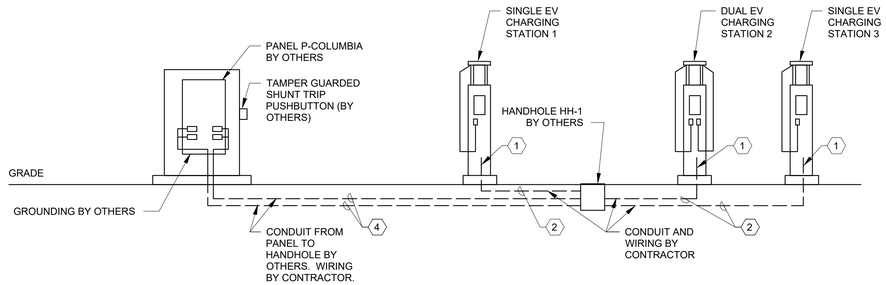
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File No.

Plot date - 12/17/2025 8:49:23 AM
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1 ELECTRICAL RISER DIAGRAM - HARVARD STREET
NO SCALE



2 ELECTRICAL RISER DIAGRAM - COLUMBIA STREET
NO SCALE

Branch Panel: P-COLUMBIA

Location: COLUMBIA STREET
Supply From: BY OTHERS
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 240/120 Single
Phases: 1
Wires: 3

A.I.C. Rating: --
BUS OCP Type: --
BUS Rating: --
MCB Rating: --

Notes:

CKT	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	B	A	B	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	CKT
1															2
3															4
5															6
7															8
9															10
11															12
13															14
15															16
17	SHUNT TRIP POWER		20 A	1	2#12,1#12G,3/4"C	0.0 kVA									18
19	DUAL EV CHARG STA. 2	(1) (2)	40 A	2	2#6,1#8G,2"C		3.6 kVA		3.6 kVA	2#6,1#8G,2"C	2	40 A	(1)	SINGLE EV CHARG STA. 1	20
21	--	--	--	--	--	3.6 kVA		3.6 kVA		--	--	--	--	--	22
23	CIRCUIT 1		20 A	--			0.0 kVA		0.0 kVA		1	20 A		--	24
25	DUAL EV CHARG STA. 2	(1) (2)	40 A	2	2#6,1#8G,2"C	3.6 kVA		3.6 kVA		2#6,1#8G,2"C	2	40 A	(1)	SINGLE EV CHARG STA. 3	26
27	--	--	--	--	--		3.6 kVA		3.6 kVA	--	--	--	--	--	28
29	CIRCUIT 2		--	1		0.0 kVA		0.0 kVA			1	--		--	30
					Total Load:	14400 VA		14400 VA							
					Total Amps:	120 A		120 A							
											--	--			

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals
Electric Vehicles	28800 VA	125.00%	36000 VA	
				Total Conn. Load: 28800 VA
				Total Est. Demand: 36000 VA
				Total Conn. Current: 120 A
				Total Est. Demand Current: 150 A

Notes:
(1) CIRCUIT BREAKER WITH SHUNT TRIP FEATURE OR SHUNT TRIP MAIN CIRCUIT BREAKER BY OTHERS. PUSHBUTTON BY OTHERS.
(2) PROVIDE ONE (1) CONDUIT FOR BOTH CIRCUITS.

SPECIFIC RISER NOTES:

1. CONDUIT STUB-UP NOT TO BE EXTENDED HIGHER THAN 26 INCHES.
2. REFER TO PANEL SCHEDULE FOR WIRING AND CONDUIT REQUIREMENTS.
3. PROVIDE GROUNDING AS PER NEC.
4. PROVIDE (2) 4" CONDUIT CONCRETE ENCASED SCHEDULE 40.
5. BOND BACK PANEL AND ELECTRICAL CABINET METAL PARTS WITH GROUND BUS AT PANEL P-HARVARD.

DRAWING NOTES:

1. REFER TO DRAWING EV-1 FOR SYMBOLS, NOTES & ABBREVIATIONS.
2. PROVIDE PLAQUE ON THE EV CHARGING STATIONS DENOTING THE LOCATION OF THE DISCONNECTING MEANS PER NEC.
3. REFER TO DRAWING EV-3 FOR DUCTBANK DETAIL.
4. PROVIDE CONCRETE PAD FOR EV CHARGERS PER MANUFACTURER'S REQUIREMENTS.

Branch Panel: P1-HARVARD

Location: HARVARD STREET
Supply From: UTILITY
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 240/120V Single
Phases: 1
Wires: 3

A.I.C. Rating: 22K
BUS OCP Type: MCB
BUS Rating: 400 A
MCB Rating: 300 A

Notes:
PROVIDE GROUNDING OF PANEL AND SPD PER NEC.

CKT	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	B	A	B	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	CKT
1	PARK LIGHTING	(2)	20 A	1	2#12,1#12G,3/4"C	1.8 kVA		1.8 kVA			1	20 A	(2)	PARK LIGHTING	2
3	PARK LIGHTING	(2)	20 A	1	2#12,1#12G,3/4"C		1.8 kVA		1.8 kVA		1	20 A	(2)	PARK LIGHTING	4
5	PARK LIGHTING	(2)	20 A	1	2#12,1#12G,3/4"C	1.8 kVA		1.8 kVA			1	20 A	(2)	PARK LIGHTING	6
7	ELEC. CABINET GFCI REC	(2)	20 A	1			0.2 kVA		0.0 kVA		1	20 A		SPARE	8
9	ELEC. CABINET GFCI REC	(2)	20 A	1		0.2 kVA		--			1	--		SPACE	10
11	ELEC. CABINET LIGHT		15 A	1			0.1 kVA		--		1	--		SPACE	12
13	ELEC. CABINET GFCI REC	(2)	20 A	1		0.2 kVA		--			1	--		SPACE	14
15	SPACE		--	1			--		0.0 kVA	2#12,1#12G,3/4"C	2	20 A		SPD	16
17	SHUNT TRIP POWER		20 A	1	2#12,1#12G,3/4"C	0.0 kVA			0.0 kVA		--	--	--	--	18
19	SINGLE EV CHARG STA. 1	(1)	40 A	2	2#6,1#8G,2"C		3.6 kVA		3.6 kVA	2#6,1#8G,2"C	2	40 A	(1)	SINGLE EV CHARG STA. 2	20
21	--	--	--	--	--	3.6 kVA		3.6 kVA		--	--	--	--	--	22
23	--		--	--			--		--		--	--		--	24
25	SINGLE EV CHARG STA. 3	(1)	40 A	2	2#6,1#8G,2"C	3.6 kVA		3.6 kVA		2#6,1#8G,2"C	2	40 A	(1)	SINGLE EV CHARG STA. 4	26
27	--	--	--	--	--		3.6 kVA		3.6 kVA	--	--	--	--	--	28
29	--		--	--		--		--			--	--		--	30
31	IRR CONTROL	(2)	20 A	1			0.0 kVA		--		1	--		SPACE	32
33	CONTROL	(2)	20 A	1		0.0 kVA		--			1	--		SPACE	34
35	SPRAY PL	(2)	20 A	1			0.0 kVA		--		1	--		SPACE	36
37	PUMP P1	(2)	30 A	2		0.0 kVA		--			1	--		SPACE	38
39	--	--	--	--	--		0.0 kVA		--		1	--		SPACE	40
41	UNLABLED EXISTING CKT	(2)	20 A	1		0.0 kVA		--			1	--		SPACE	42
					Total Load:	22000 VA		18300 VA							
					Total Amps:	183 A		153 A							

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals
General	11500 VA	100.00%	11500 VA	
Electric Vehicles	28800 VA	125.00%	36000 VA	
				Total Conn. Load: 40300 VA
				Total Est. Demand: 47500 VA
				Total Conn. Current: 168 A
				Total Est. Demand Current: 198 A

Notes:
(1) CIRCUIT BREAKER WITH SHUNT TRIP FEATURE. PROVIDE PUSHBUTTON ON EXTERIOR OF CABINET AND CONNECT TO SHUNT TRIP ALL EV CHARGING STATION'S CIRCUIT BREAKERS.
(2) EXISTING CIRCUIT TO BE RECONNECTED TO PANEL AFTER PANEL IS INSTALLED.

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Stantec

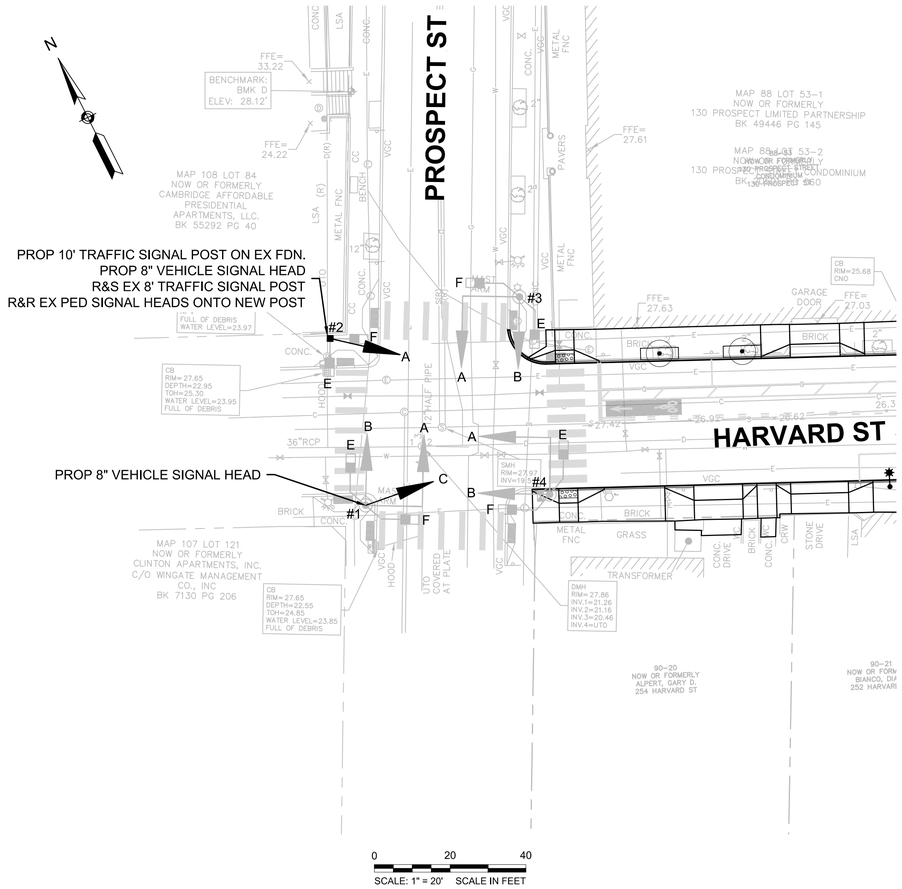
RONALD ERNE ELECTRICAL
COMMONWEALTH OF MASSACHUSETTS
59004
REGISTERED
PROFESSIONAL ENGINEER

Scale	AS NOTED			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	AB			
Drawn by	AK			
Checked by	ST	No.	Description	Date
Approved by	--	REVISIONS		

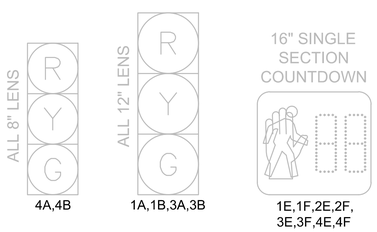
THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC

Client: CITY OF CAMBRIDGE, MASSACHUSETTS
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1
Drawing: ELECTRICAL RISER DIAGRAMS AND PANEL SCHEDULES
Sheet: EV-4
File No.

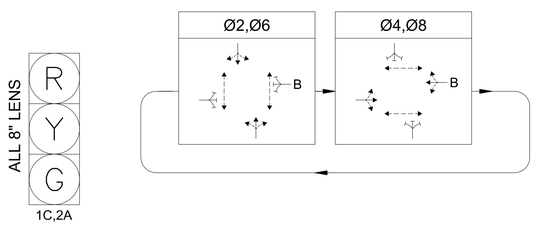
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EXISTING SIGNALS

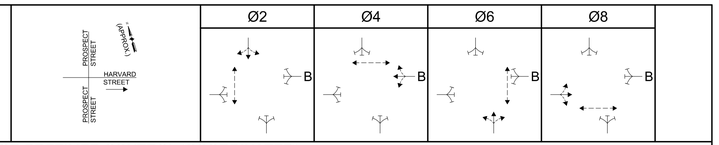


PROPOSED SIGNALS



GENERAL NOTES

1. ALL EXISTING SIGNAL EQUIPMENT SHALL BE RETAINED UNLESS OTHERWISE DIRECTED.
2. ALL EXISTING CONDUIT AND PULLBOXES SHALL BE RETAINED.
3. ALL REMOVED AND STACKED TRAFFIC SIGNAL EQUIPMENT TO BE RETURNED TO THE CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS (DPW).
4. POST MOUNTED 8" SIGNAL HEADS SHALL BE SIDE MOUNTED ON PROPOSED TRAFFIC SIGNAL POSTS TO PROVIDE A CLEARANCE OF 7' FROM THE SIDEWALK TO THE BOTTOM OF THE SIGNAL HEAD.



SEQUENCE AND TIMING FOR PRETIMED CONTROL (COORDINATED)

STREET	DIRECTION	HOUSINGS	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	FLASH. OPER.
PROSPECT ST	NB	3A,3B	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	FY
PROSPECT ST	SB	1A,1B	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
HARVARD ST	EB	4A,4B	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
HARVARD ST	WB	1C,2A	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FR
PEDESTRIAN	NB-SB	1E,2E	W	W/FDW	FDW	DW	R	R	R	R	R	R	R	R	R	R	R	R	OFF
PEDESTRIAN	EB-WB	2F,3F	R	R	R	R	W	W/FDW	FDW	DW	R	R	R	R	R	R	R	R	OFF
PEDESTRIAN	NB-SB	3E,4E	R	R	R	R	R	R	R	R	W	W/FDW	FDW	DW	R	R	R	R	OFF
PEDESTRIAN	EB-WB	1F,4F	R	R	R	R	R	R	R	R	R	R	R	R	W	W/FDW	FDW	DW	OFF

TIMING IN SECONDS

MINIMUM GREEN (INITIAL)		6				6				6				6			
PASSAGE TIME (VEHICLE)		3				3				3				3			
MAXIMUM 1		42				19				42				22			
MAXIMUM 2		58				30				58				33			
YELLOW CLEARANCE			3.5				3				3.5				3		
RED CLEARANCE				2.5				5				2.5				2	
WALK (W)	3	4			3	4			3	4			3	4			
PEDESTRIAN CLEARANCE		10				10				10				10			

RECALL	MAX/PED	MAX/PED	MAX/PED	MAX/PED
MEMORY	LOCK	LOCK	LOCK	LOCK

COORDINATION DATA					COORDINATION PHASE TIMING			
PROGRAM	DAY	TIME	OFFSET	CYCLE LENGTH	SEC.	SEC.	SEC.	SEC.
DIAL 1	M-F	0000-0630	68	75	48	27	48	27
		0930-1530						
		1830-0000						
	WKND	0000-1000						
		1900-0000						
DIAL 2	M-F	0630-0930	86	90	52	38	52	38
DIAL 3	M-F	1530-1830	76	90	64	26	64	26
DIAL 4	WKND	1000-1900	63	75	51	24	51	24

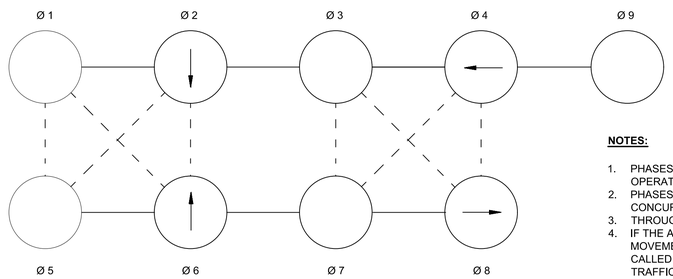
NOTES

1. Ø2, Ø4, Ø6, AND Ø8 PEDESTRIAN PHASES SHALL REST IN WALK.
2. MAX 1 DURING FREE OPERATION.
3. MAX 2 DURING COORDINATION OPERATION.

MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
2890.1	1	R&S SELECTED SIGNAL EQUIPMENT
	1	10' TRAFFIC SIGNAL POST & BASE (STEEL) W/ BLACK POWDER COAT
	2	1 WAY, 3 SECTION, VEHICLE SIGNAL HOUSING (8" L.E.D.)
PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.		

NEMA DUAL RING PHASING NOTES:



NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Bowman

COMMONWEALTH OF MASSACHUSETTS
CONOR MURPHY
CIVIL
No. 54506
REGISTERED PROFESSIONAL ENGINEER
4/6/2026

Scale	
Date	APRIL 2026
Job No.	20201034.009A
Designed by	J.V.EMMERIK
Drawn by	M. WEINTRAUB
Checked by	C.MURPHY
Approved by	C.MURPHY

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS
THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

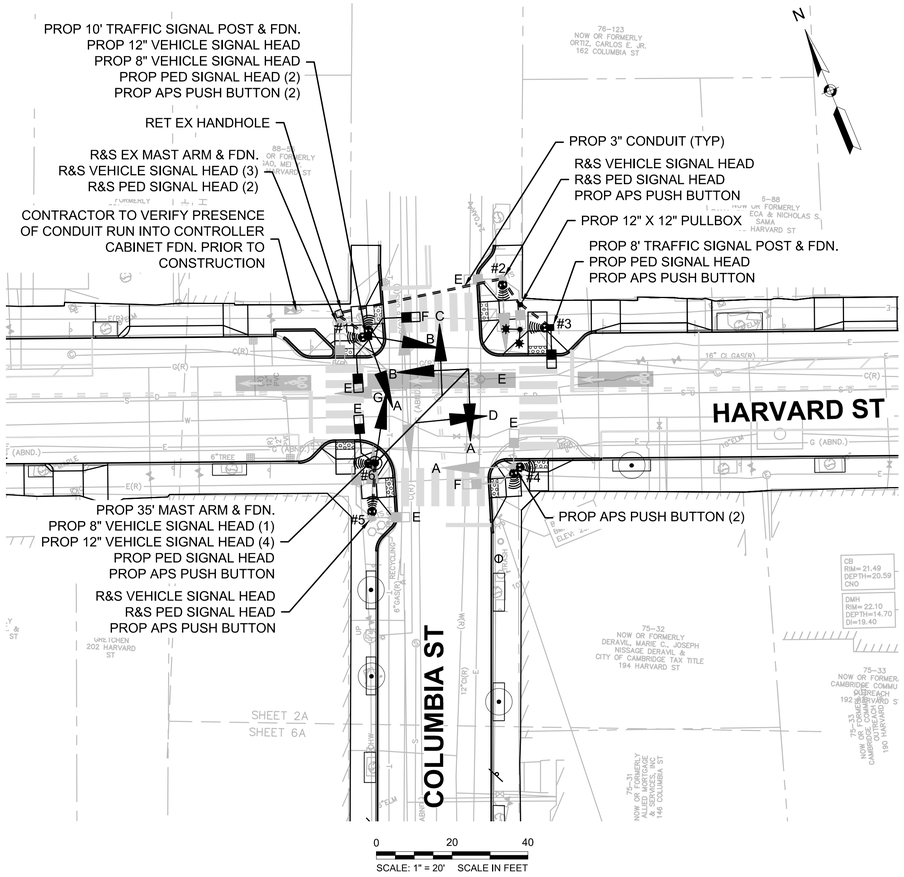
Drawing: TRAFFIC SIGNAL PLAN PLAN 1 OF 3

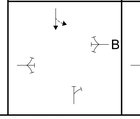
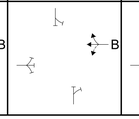
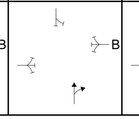
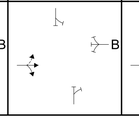
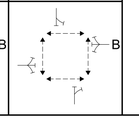
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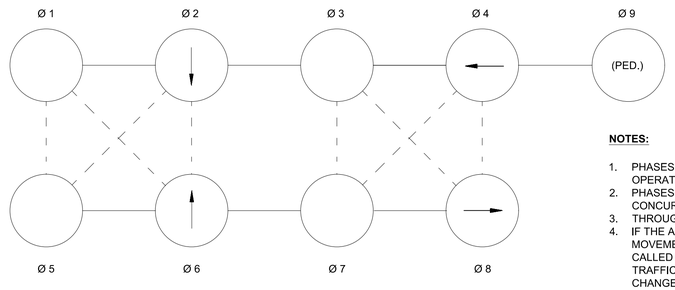


		Ø2	Ø4	Ø6	Ø8	Ø9	
							

SEQUENCE AND TIMING FOR SEMI-ACTUATED CONTROL (ISOLATED)

STREET	DIRECTION	HOUSINGS	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	FLASH. OPER.
COLUMBIA ST	NB	1A,6A	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FY
COLUMBIA ST	SB	6C,6G	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
HARVARD ST	EB	4A,6B	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	FR
HARVARD ST	WB	1B,6D	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
PEDESTRIAN	NB-SB	1E,6E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	W	FDW	DW	OFF
PEDESTRIAN	EB-WB	1F,2E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	W	FDW	DW	OFF
PEDESTRIAN	NB-SB	3E,4E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	W	FDW	DW	OFF
PEDESTRIAN	EB-WB	4F,5E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	W	FDW	DW	OFF
TIMING IN SECONDS																							
MINIMUM GREEN (INITIAL)				6				6				6											
PASSAGE TIME (VEHICLE)				3				3				3											
MAXIMUM 1				25				12				25				14							
YELLOW CLEARANCE					3				3				3				3						
RED CLEARANCE						2				4				2				2				1	
WALK (W)																				7			
PEDESTRIAN CLEARANCE																					8		
RECALL				MAX				MAX				MAX				MAX				NONE			
MEMORY				NON-LOCK				NON-LOCK				NON-LOCK				NON-LOCK				NON-LOCK			

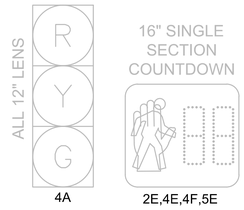
NEMA DUAL RING PHASING NOTES:



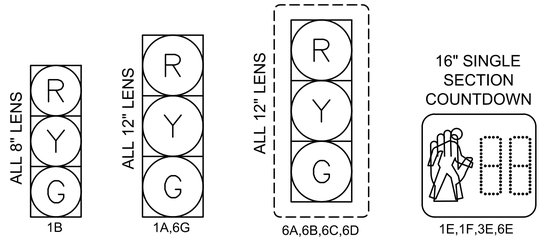
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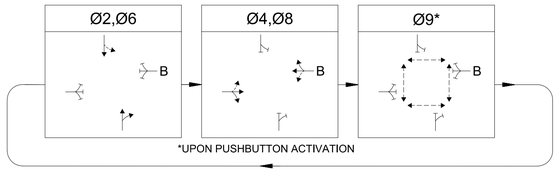
1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

EXISTING SIGNALS



PROPOSED SIGNALS





GENERAL NOTES

1. ALL EXISTING SIGNAL EQUIPMENT SHALL BE RETAINED UNLESS OTHERWISE DIRECTED.
2. ALL REMOVED AND STACKED TRAFFIC SIGNAL EQUIPMENT TO BE RETURNED TO THE CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS (DPW).
3. ALL PROP CONDUIT TO TERMINATE WITHIN EXISTING HANDHOLES AND SIGNAL POST FOUNDATIONS AS SHOWN ON PLANS.
4. POST MOUNTED 8" SIGNAL HEADS SHALL BE SIDE MOUNTED ON PROPOSED TRAFFIC SIGNAL POSTS TO PROVIDE A CLEARANCE OF 7' FROM THE SIDEWALK TO THE BOTTOM OF THE SIGNAL HEAD.

MAJOR ITEMS REQUIRED		
PAY ITEM	QUANTITY	ITEM
2890.2	1	R&S SELECTED SIGNAL EQUIPMENT
	1	35' MAST ARM, BASE, & FDN. (STEEL) W/ BLACK POWDER COAT
	1	8' TRAFFIC SIGNAL POST, BASE, & FDN (STEEL) W/ BLACK POWDER COAT
	1	10' TRAFFIC SIGNAL POST, BASE, & FDN (STEEL) W/ BLACK POWDER COAT
	1	1 WAY, 3 SECTION, VEHICLE SIGNAL HOUSING (8" L.E.D.)
	6	1 WAY, 3 SECTION, VEHICLE SIGNAL HOUSING (12" L.E.D.)
	4	5" NON-LOUVERED BACKPLATE
	4	PEDESTRIAN HOUSING (16" LED) COUNTDOWN - SINGLE SECTION
	8	ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON ASSEMBLY (3 WIRE, COWBELL TONE)
2890.4	110	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC - (UL)
2890.5	1	PULL BOX 12" x 12" (SD2.031)
PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.		

CONFORMED

KLEINFELDER
Bright People. Right Solutions.

Bowman

COMMONWEALTH OF MASSACHUSETTS
CONOR MURPHY
CIVIL
No. 54506
REGISTERED PROFESSIONAL ENGINEER
4/6/2026

Scale					
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	J.V.EMMERIK				
Drawn by	M. WEINTRAUB				
Checked by	C.MURPHY	No.	Description	Date	
Approved by	C.MURPHY	REVISIONS			

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

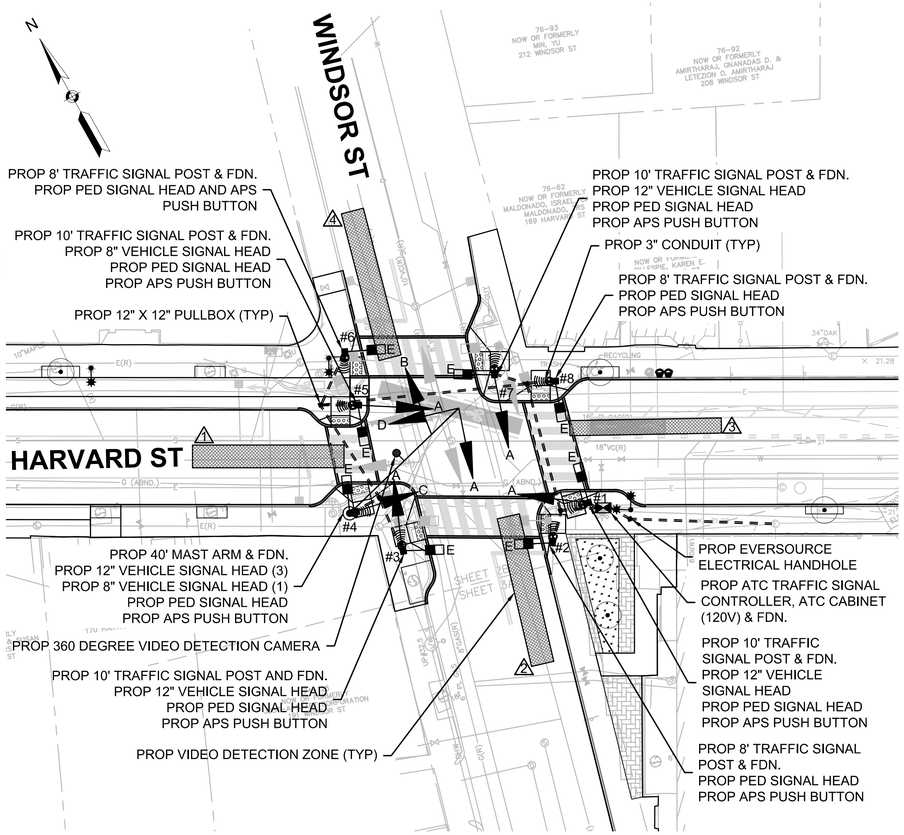
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: TRAFFIC SIGNAL PLAN PLAN 2 OF 3

Sheet: TS-02

File No.: 30724



		Ø2	Ø4	Ø6	Ø8	
	WINDSOR STREET (ONEWAY) HARVARD STREET WINDSOR STREET	B	B	B	B	

SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (ISOLATED)

STREET	DIRECTION	HOUSINGS	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	LPI	GRN	CL	CL	FLASH. OPER.
WINDSOR ST	NB	4A,7A	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	FY
WINDSOR ST	SB	3A,4B	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
HARVARD ST	EB	1A,4D	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FR
HARVARD ST	WB	4C,5A	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FR
PEDESTRIAN	NB-SB	4E,5E	W	W/FDW	FDW	DW	R	R	R	R	R	R	R	R	R	R	R	R	OFF
PEDESTRIAN	EB-WB	6E,7E	R	R	R	R	W	W/FDW	FDW	DW	R	R	R	R	R	R	R	R	OFF
PEDESTRIAN	NB-SB	1E,8E	R	R	R	R	R	R	R	R	W	W/FDW	FDW	DW	R	R	R	R	OFF
PEDESTRIAN	EB-WB	2E,3E	R	R	R	R	R	R	R	R	R	R	R	R	W	W/FDW	FDW	DW	OFF

TIMING IN SECONDS																
MINIMUM GREEN (INITIAL)		6				6				6				6		
PASSAGE TIME (VEHICLE)		3				3				3				3		
MAXIMUM 1		27				15				27				18		
YELLOW CLEARANCE			3				3				3				3	
RED CLEARANCE				2				5				2				2
WALK (W)	3	4			3	4			3	4			3	4		
PEDESTRIAN CLEARANCE		5				8				8				9		
RECALL	PED				PED				PED				PED			
MEMORY	NON-LOCK				NON-LOCK				NON-LOCK				NON-LOCK			

NOTES

1. Ø2, Ø4, Ø6, AND Ø8 PEDESTRIAN PHASES SHALL REST IN WALK.

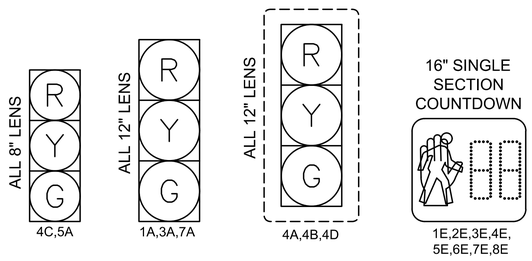
MAJOR ITEMS REQUIRED

PAY ITEM	QUANTITY	ITEM
2890.3	1	R&S SELECTED SIGNAL EQUIPMENT
	1	ATC TRAFFIC SIGNAL CONTROLLER, ATC CABINET (120V) & FDN.
	1	40' MAST ARM, BASE, & FDN. (STEEL) W/ BLACK POWDER COAT
	4	10' TRAFFIC SIGNAL POST, BASE, & FDN (STEEL) W/ BLACK POWDER COAT
	3	8' TRAFFIC SIGNAL POST, BASE, & FDN (STEEL) W/ BLACK POWDER COAT
	2	1 WAY, 3 SECTION, VEHICLE SIGNAL HOUSING (8" L.E.D.)
	6	1 WAY, 3 SECTION, VEHICLE SIGNAL HOUSING (12" L.E.D.)
	3	5" NON-LOUVERED BACKPLATE
	8	PEDESTRIAN HOUSING (16" LED) COUNTDOWN - SINGLE SECTION
	8	ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON ASSEMBLY (3 WIRE, COWBELL TONE)
	1	360 DEGREE VIDEO DETECTION CAMERA
	1	360 DEGREE VIDEO DETECTION SYSTEM
	1	SERVICE CONNECTION (UNDERGROUND)
2890.4	240	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC - (UL)
2890.5	4	PULL BOX 12" x 12" (SD2.031)
2890.6	1	SERVICE CONNECTION EVERSOURCE APPROVED HANDHOLE
PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.		

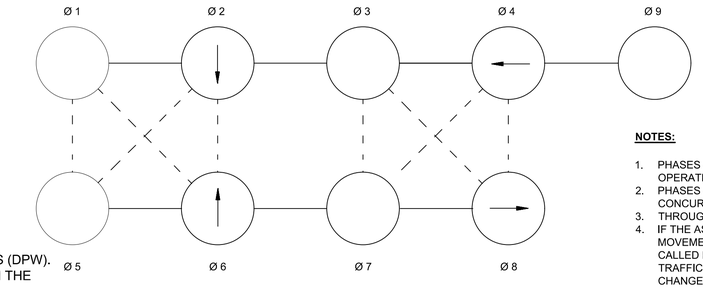
VIDEO DETECTOR DATA

DETECTOR NUMBER	CHANNEL NUMBER	Ø CALLED	Ø EXT	MODE A=PULSE B=PRES	DELAY TIME	EXT TIME
1	1	8	8	B	-	-
2	2	6	6	B	-	-
3	3	4	4	B	-	-
4	4	2	2	B	-	-

PROPOSED SIGNALS

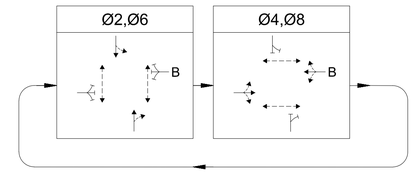


NEMA DUAL RING PHASING NOTES:



NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.



GENERAL NOTES

1. ALL EXISTING SIGNAL EQUIPMENT SHALL BE REMOVED AND STACKED OR DISPOSED, UNLESS OTHERWISE NOTED.
2. ALL REMOVED AND STACKED TRAFFIC SIGNAL EQUIPMENT TO BE RETURNED TO THE CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS (DPW).
3. POST MOUNTED 8" SIGNAL HEADS SHALL BE SIDE MOUNTED ON PROPOSED TRAFFIC SIGNAL POSTS TO PROVIDE A CLEARANCE OF 7' FROM THE SIDEWALK TO THE BOTTOM OF THE SIGNAL HEAD.

CONFORMED

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Bright People. Right Solutions.

Bowman

COMMONWEALTH OF MASSACHUSETTS
CONOR MURPHY
CIVIL
No. 54506
REGISTERED PROFESSIONAL ENGINEER
4/6/2026

Scale					
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	J.V.EMMERIK				
Drawn by	M. WEINTRAUB				
Checked by	C.MURPHY	No.	Description	Date	
Approved by	C.MURPHY	REVISIONS			

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

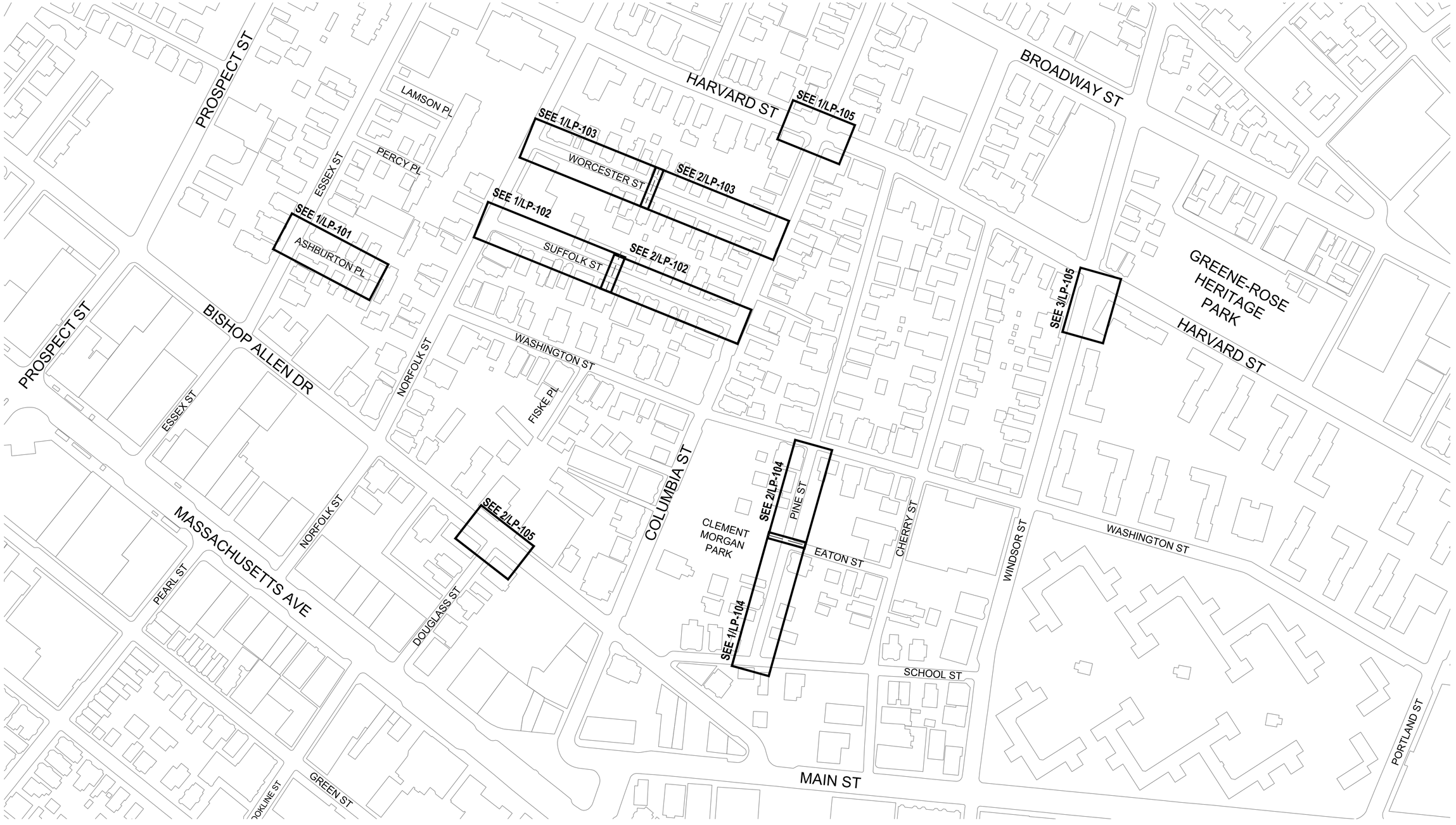
Drawing: TRAFFIC SIGNAL PLAN
PLAN 3 OF 3

Sheet: TS-03

File No.: 30724

Plot date: 4/6/2026 3:49:56 PM
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Plot date: 11/24/2025 1:36:15 PM



CONFORMED

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Stantec

MASSACHUSETTS
CHRISTOPHER T. LEE
REGISTERED LANDSCAPE ARCHITECT
NO. 1567

Scale	1" = 100'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LG, AF
Drawn by	LG
Checked by	ST, CF
Approved by	CF

No.	Description	Date
	REVISIONS	

THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LANDSCAPE PLANTINGS KEY PLAN

Sheet: LP-000

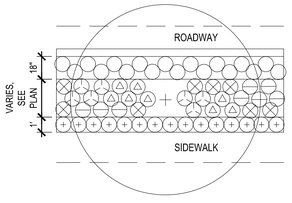
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Plot date: 11/24/2025 4:16:14 PM

OVERALL PLANT SCHEDULE

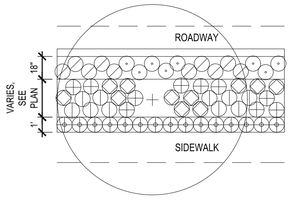
CODE	QTY (ALL SHEETS)	LP101	LP102	LP103	LP104	LP105	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	
ORNAMENTAL TREES											
AC	5		2	3			AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	2-2.5" CAL	B&B	
CP	5		2	1	2		CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2-2.5" CAL	B&B	
CC	7	1	2	2	2		CERCIS CANADENSIS	EASTERN REDBUD	2-2.5" CAL	B&B	
CK	4	1	2	1			CLADRASTIS KENTUKEA	AMERICAN YELLOWWOOD	2-2.5" CAL	B&B	
CT	2		2				COTINUS OBOVATUS	AMERICAN SMOKE TREE	2-2.5" CAL	B&B	
OV	10	1	3	4	2		OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	2-2.5" CAL	B&B	
PC	10		3	3	4		PRUNUS VIRGINIANA	CHOKECHERRY	2-2.5" CAL	B&B	
RT	3	2			1		RHUS TYPHINA	STAGHORN SUMAC	10` HT		
TOTAL	**46**										
SHADE TREES											
AR	3		1			2	ACER RUBRUM	RED MAPLE	2-2.5" CAL	B&B	
CO	1		1				CELTIS OCCIDENTALIS	COMMON HACKBERRY	2-2.5" CAL	B&B	
GD	3		2	1			GYMNOCLADUS DIOICUS `ESPRESSO`	KENTUCKY COFFEETREE	2.5" CAL.	B&B	
LT	1				1		LIRIODENDRON TULIPIFERA	TULIP POPLAR	2-2.5" CAL	B&B	
NS	2		1		1		NYSSA SYLVATICA	TUPELO	2-2.5" CAL	B&B	
QB	4		2	1	1		QUERCUS BICOLOR	SWAMP WHITE OAK	2-2.5" CAL	B&B	
QI	5		1	2	2		QUERCUS IMBRICARIA	SHINGLE OAK	2-2.5" CAL	B&B	
QP	2		1	1			QUERCUS PALUSTRIS	PIN OAK	2-2.5" CAL	B&B	
UP	4		3		1		ULMUS AMERICANA `PRINCETON`	PRINCETON AMERICAN ELM	2-2.5" CAL	B&B	
TOTAL	**25**										
CODE	**QTY**	**LP101**	**LP102**	**LP103**	**LP104**	**LP105**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**		
SHRUBS											
RG	109					109	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#1 POT		
CODE	**QTY**	**LP101**	**LP102**	**LP103**	**LP104**	**LP105**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**		**SPACING**
GROUNDCOVERS											
	118 SF					**118 SF**	**BIORETENTION BASIN PLANTING**				
AT	13					13	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	#1 POT		10% @ 12" o.c.
EP	13					13	ECHINACEA PURPUREA	CONEFLOWER	#1 POT		10% @ 12" o.c.
ES	25					25	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS	#1 POT		20% @ 12" o.c.
EP2	13					13	EUPATORIUM PERFOLIATUM	COMMON BONESET	#1 POT		10% @ 12" o.c.
IV	13					13	IRIS VERSICOLOR	BLUE FLAG	#1 POT		10% @ 12" o.c.
SL	25					25	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 POT		20% @ 12" o.c.
VH	13					13	VERBENA HASTATA	BLUE VERVAIN	#1 POT		10% @ 12" o.c.
	622 SF		**204 SF**	**418 SF**			**LOW MIX**				
AU	259		85	174			ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	#1 POT		40% @ 12" o.c.
ES	65		22	43			ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS	#1 POT		10% @ 12" o.c.
PA	129		42	87			PACKERA AUREA	GOLDEN GROUNDSEL	#1 POT		20% @ 12" o.c.
SL	65		22	43			SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 POT		10% @ 12" o.c.
WF	129		42	87			WALDSTEINIA FRAGARIOIDES	BARREN STRAWBERRY	#1 POT		20% @ 12" o.c.
	2,339 SF	**154 SF**	**417 SF**	**890 SF**	**878 SF**		**SUN MIX**				
AT	486	32	87	184	183		ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	#1 POT		20% @ 12" o.c.
CQ	486	32	87	184	183		COREOPSIS VERTICILLATA	TICKSEED	#1 POT		20% @ 12" o.c.
ES	486	32	87	184	183		ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS	#1 POT		20% @ 12" o.c.
LS2	244	16	44	93	91		LIATRIS SPICATA	BLAZING STAR	#1 POT		10% @ 12" o.c.
RH2	437	29	78	165	165		RUDBECKIA HIRTA	BLACK-EYED SUSAN	#1 POT		18% @ 12" o.c.
SL	290	19	52	110	109		SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1 POT		12% @ 12" o.c.
	1,904 SF	**355 SF**	**850 SF**	**607 SF**	**92 SF**		**SHADE MIX**				
CP2	594	111	265	190	28		CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	#1 POT		30% @ 12" o.c.
EP	196	36	88	63	9		ECHINACEA PURPUREA	CONEFLOWER	#1 POT		10% @ 12" o.c.
ED	313	59	140	99	15		EURYBIA DIVARICATA	WHITE WOOD ASTER	#1 POT		16% @ 12" o.c.
PA	354	66	157	114	17		PACKERA AUREA	GOLDEN GROUNDSEL	#1 POT		18% @ 12" o.c.
SC	313	59	140	99	15		SOLIDAGO CAESIA	WREATH GOLDENROD	#1 POT		16% @ 12" o.c.
ZA	196	36	88	63	9		ZIZIA AUREA	GOLDEN ALEXANDER	#1 POT		10% @ 12" o.c.
TOTAL SF	**4865**										
TOTAL QTY	**5157**										



SHADE MIX SAMPLE PLOT	75 SF
CAREX PENSYLVANICA / PENNSYLVANIA SEDGE	18
PACKERA AUREA/GOLDEN GROUNDSEL	15
ECHINACEA PURPUREA / CONEFLOWER	7
EURYBIA DIVARICATA / WHITE WOOD ASTER	8
ZIZIA AUREA/GOLDEN ALAEXANDER	8
SOLIDAGO CAESIA/WREATH GOLDENROD	8

5 PLANT LAYOUT - SHADE MIX

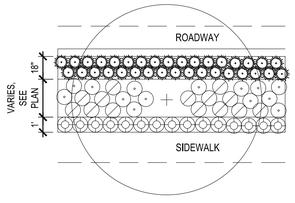
1"= 5'



SUN MIX SAMPLE PLOT	75 SF
ASCLEPIAS INCARNATA / SWAMP MILKWEED	15
SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	8
ERAGROSTIS SPECTABILIS / PURPLE LOVEGRASS	10
LIATRIS SPICATA / BLAZING STAR	10
RUDBECKIA HIRTA / BLACK-EYED SUSAN	10
COREOPSIS VERTICILLATA/TICKSEED	11

4 PLANT LAYOUT - SUN MIX

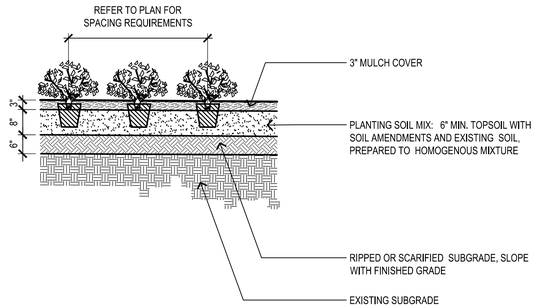
1"= 5'



LOW MIX SAMPLE PLOT	75 SF
ARCTOSTAPHYLOS UVA-URSI/BEARBERRY	34
WALDSTEINIA FRAGARIOIDES / BARREN STRAWBERRY	15
SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	14
ERAGROSTIS SPECTABILIS / PURPLE LOVEGRASS	14

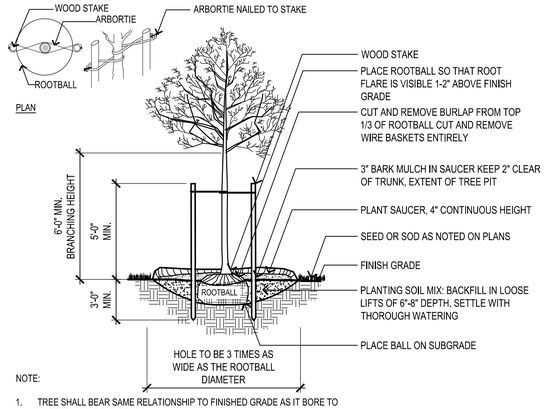
3 PLANT LAYOUT - LOW MIX

1"= 5'



2 GROUND COVER PLANTING

1/2" = 1'-0" BC1951-30200S-39



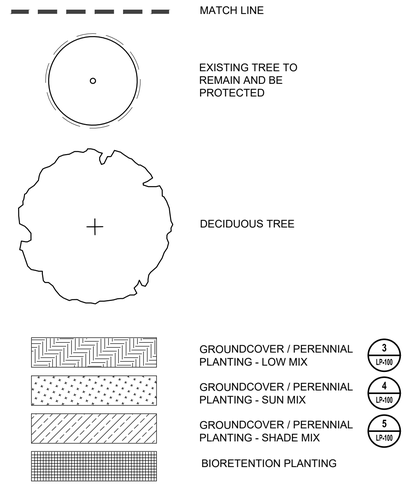
NOTE:

1. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE
2. ARBORTIE STAKING AND GUYING MATERIAL TO BE FLAT WOVEN POLYPROPYLENE MATERIAL 2" WIDE 900LB BREAK STRENGTH. ARBORTIE SHALL BE FASTENED TO STAKES IN A MATTER WHICH PERMITS TREE MOVEMENT AND SUPPORTS THE TREE

1 DECIDUOUS TREE PLANTING WITH STAKING

1/4" = 1'-0" BC1951-30200S-59

LEGEND



PLANTING NOTES

1. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF PLANT MATERIAL.
2. CONTRACTOR SHALL VERIFY ALL TREE REMOVALS AND/OR TRANSPLANTS WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION START.
3. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, AND PLANTING BEDS.
4. MAXIMUM SLOPE WITHIN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
5. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THIS DRAWING.
6. ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
7. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
8. ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
9. MULCH FOR PLANTED AREAS TO BE AGED PINE BARK: PARTIALLY DECOMPOSED, DARK BROWN IN COLOR AND FREE OF WOOD CHIPS THICKER THAN 1/4 INCH.
10. PLANTING SOIL MIX: LOAM THOROUGHLY INCORPORATED WITH ROTTED MANURE PROPORTIONED 5 C.Y. TO 1 C.Y. OR EQUIVALENT. FERTILIZER ADDED PER RECOMMENDED RATES OF SOILS ANALYSIS.
11. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.
12. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, AT THE NURSERY, AND AT THE SITE.
13. ALL AREAS OF THE SITE WHICH HAVE BEEN DISTURBED AND NOT OTHERWISE DEVELOPED SHALL BE LOAMED AND SEEDED WITH A MINIMUM DEPTH OF 6" DEPTH TOPSOIL.

CONFORMED

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KLEINFELDER Bright People. Right Solutions.

Stantec

MASSACHUSETTS CHRISTOPHER J. TEE NO. 4567 REGISTERED LANDSCAPE ARCHITECT

Scale	
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LG, AF
Drawn by	LG
Checked by	ST, CF
Approved by	CF

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

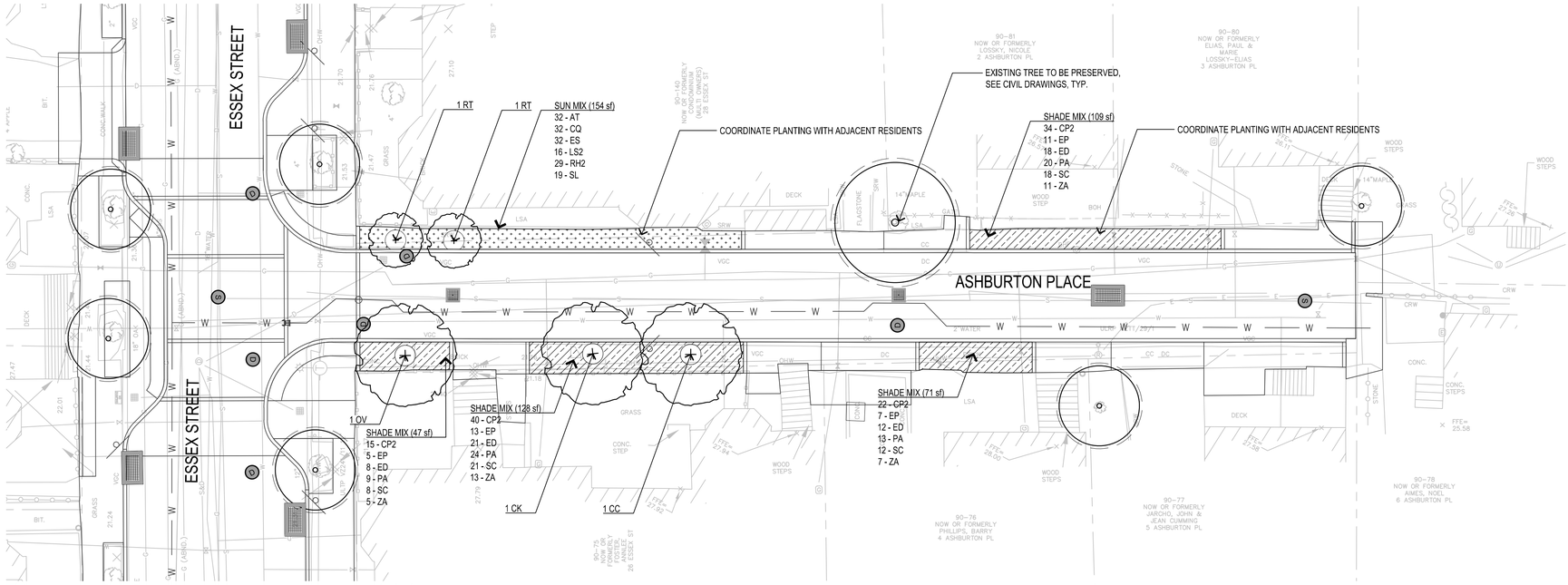
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LANDSCAPE PLANTINGS PLANTING SCHEDULE, DETAILS & NOTES

Sheet: LP-100

File No.: 30724

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1 ASHBURTON PLACE ENLARGEMENT

1" = 10'

VIEW-814925194

N

0 10' 20'

CONFORMED

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MASSACHUSETTS CHRISTOPHER J. TYE NO. 1567 REGISTERED LANDSCAPE ARCHITECT

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LG, AF
Drawn by	LG
Checked by	ST, CF
Approved by	CF

No.	Description	Date
	REVISIONS	

THE CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

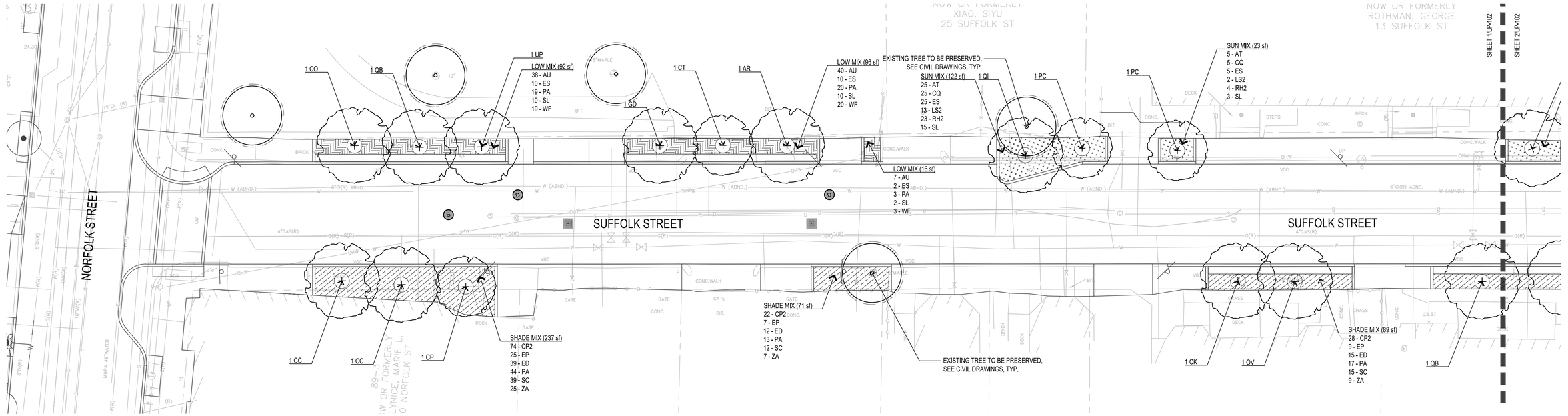
Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LANDSCAPE PLANTINGS PLANTING PLAN I

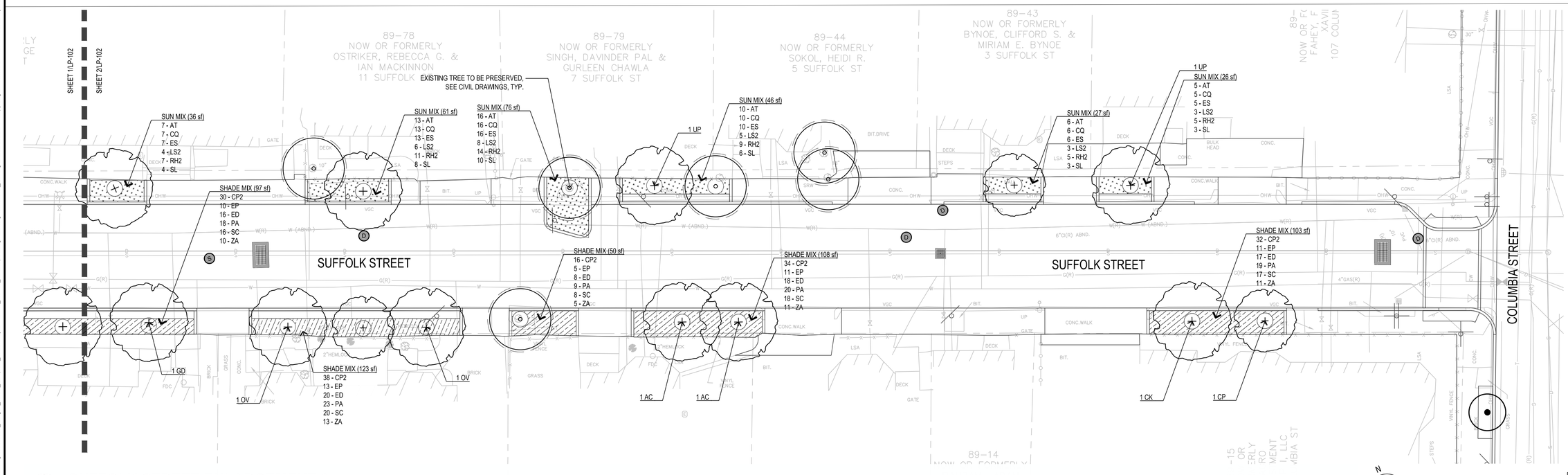
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File No.: 30724



1 SUFFOLK STREET ENLARGEMENT 1

1" = 10'



2 SUFFOLK STREET ENLARGEMENT 2

1" = 10'

CONFORMED

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Stantec

MASSACHUSETTS · CHRISTOPHER T. FEE · NO. 3552 · REGISTERED LANDSCAPE ARCHITECT

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LG, AF
Drawn by	LG
Checked by	ST, CF
Approved by	CF

No.	Description	Date
	REVISIONS	

CAMBRIDGE DEPARTMENT OF PUBLIC WORKS — THE WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT
PACKAGE 1

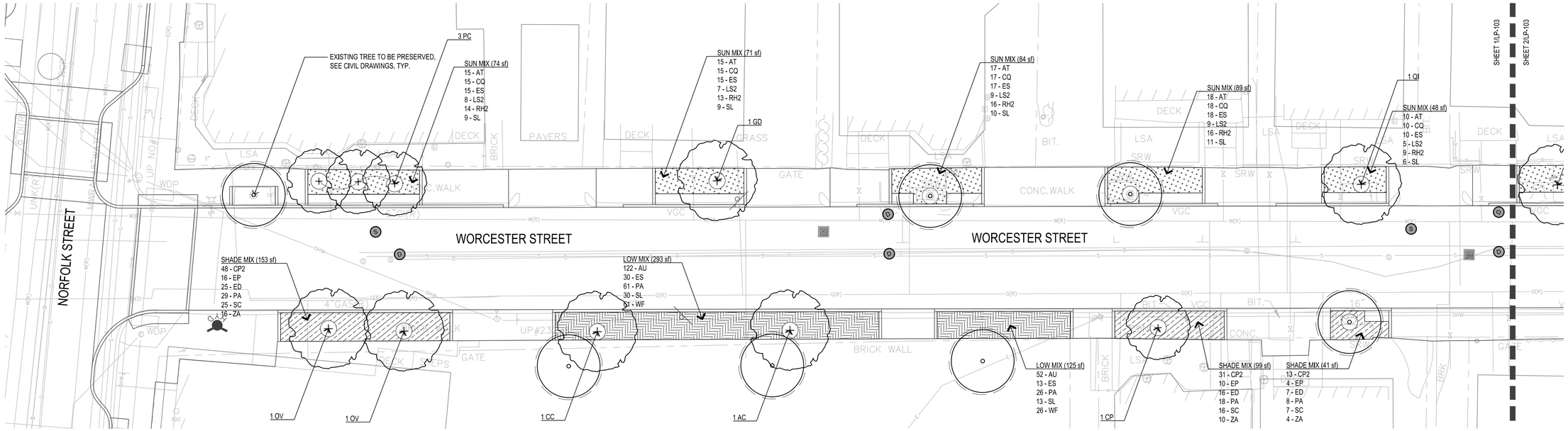
Drawing: LANDSCAPE PLANTINGS
PLANTING PLAN II

Sheet: LP-102

File No.: 30724

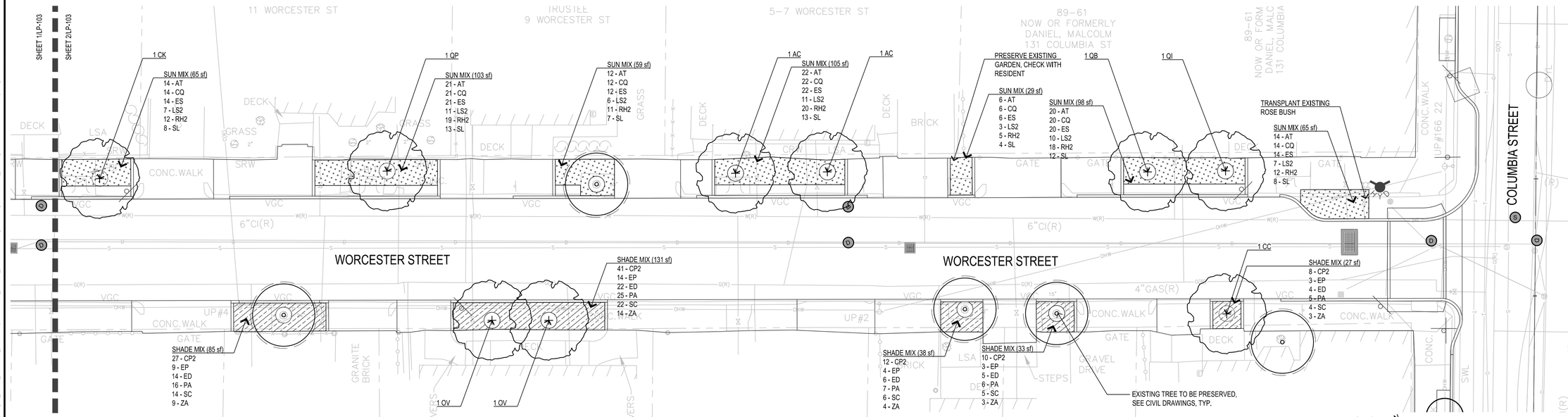
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1 WORCESTER STREET ENLARGEMENT 1

1" = 10'



2 WORCESTER STREET ENLARGEMENT 2

1" = 10'

CONFORMED

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Stantec

CHRISTOPHER T. FOX — MASSACHUSETTS — REGISTERED LANDSCAPE ARCHITECT — NO. 1567

Scale	1" = 10'
Date	APRIL 2026
Job No.	20201034.009A
Designed by	LG, AF
Drawn by	LG
Checked by	ST, CF
Approved by	CF

No.	Description	Date
	REVISIONS	

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LANDSCAPE PLANTINGS PLANTING PLAN III

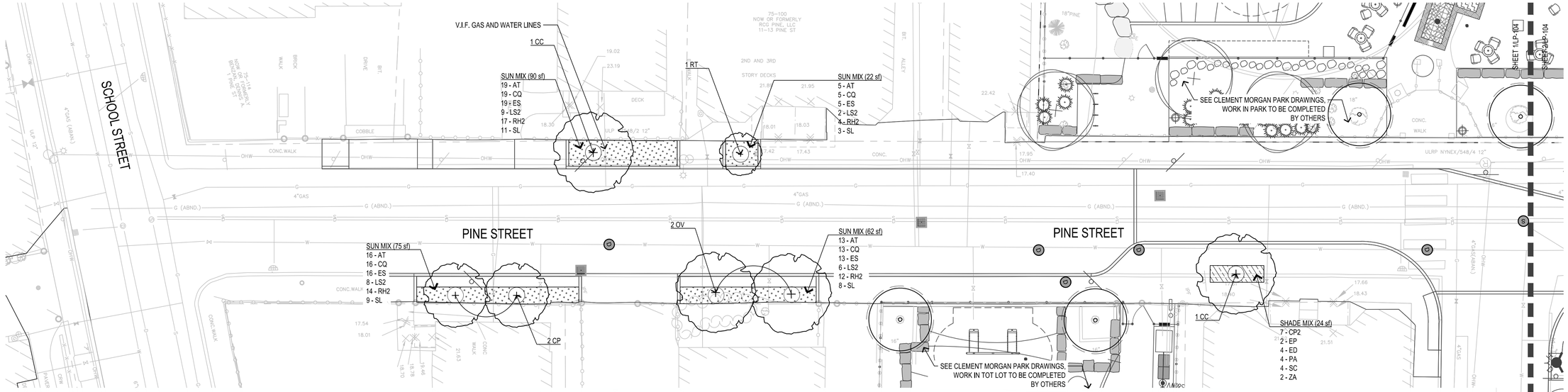
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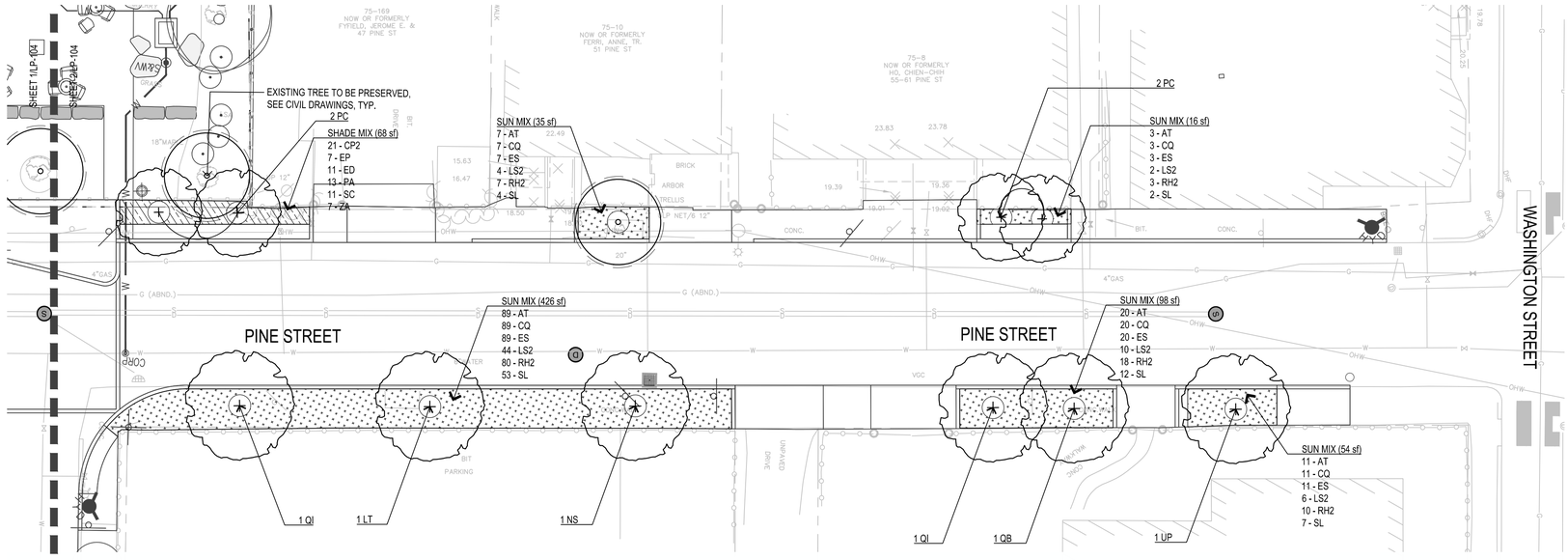
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1 PINE STREET ENLARGEMENT 1

1" = 10'

VIEW-592351130



2 PINE STREET ENLARGEMENT 2

1" = 10'

VIEW-150369525

0 10' 20'

CONFORMED

CAD FILE: C:\Users\stottler\DC\ACDocs\Stantec Consulting\195130200_Morgan_Tanks_Complete_Street\Project Files\01_LWP\05_landscape\design\drawing\195130200_planting-shared-streets-1 - Copy.dwg LAYOUT: LP-100 BY: trottler, sydney

KLEINFELDER
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Stantec

MASSACHUSETTS CHRISTOPHER T. FEE NO. 1567 REGISTERED LANDSCAPE ARCHITECT

Scale	1" = 10'			
Date	APRIL 2026			
Job No.	20201034.009A			
Designed by	LG, AF			
Drawn by	LG			
Checked by	ST, CF	No.	Description	Date
Approved by	CF	REVISIONS		

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

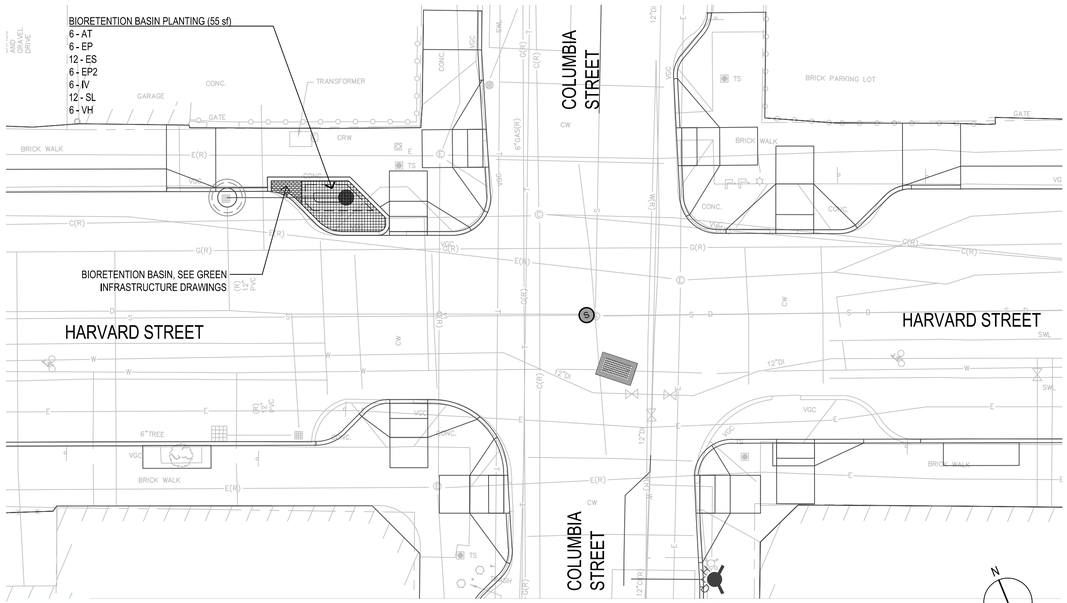
Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LANDSCAPE PLANTINGS PLANTING PLAN IV

Sheet: LP-104

File No.: 30724

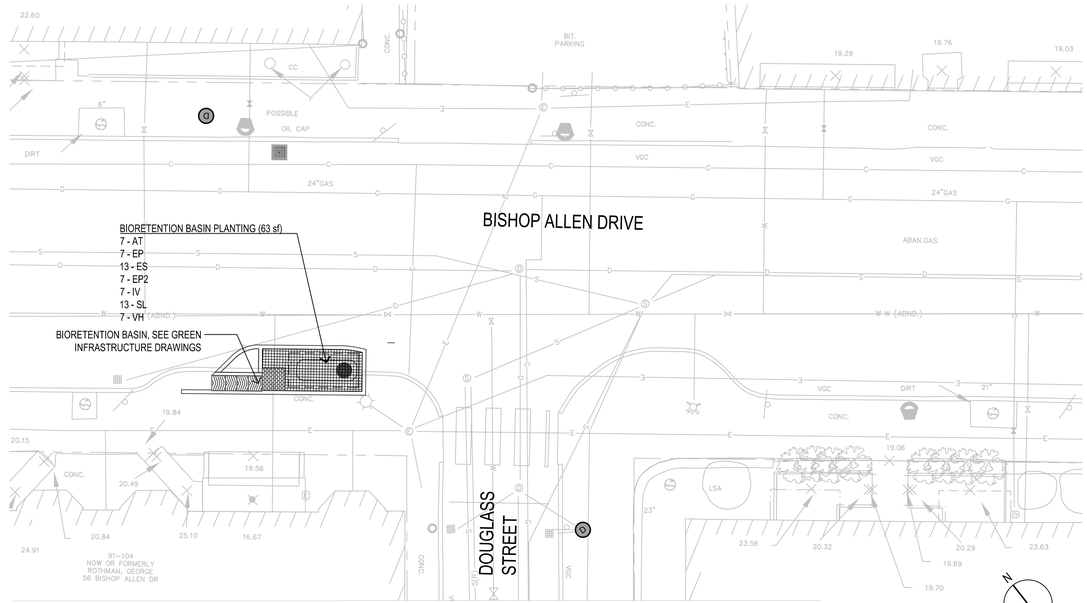
Plot date: 11/24/2025 4:18:14 PM



1 HARVARD AT COLUMBIA ENLARGEMENT

1" = 10'

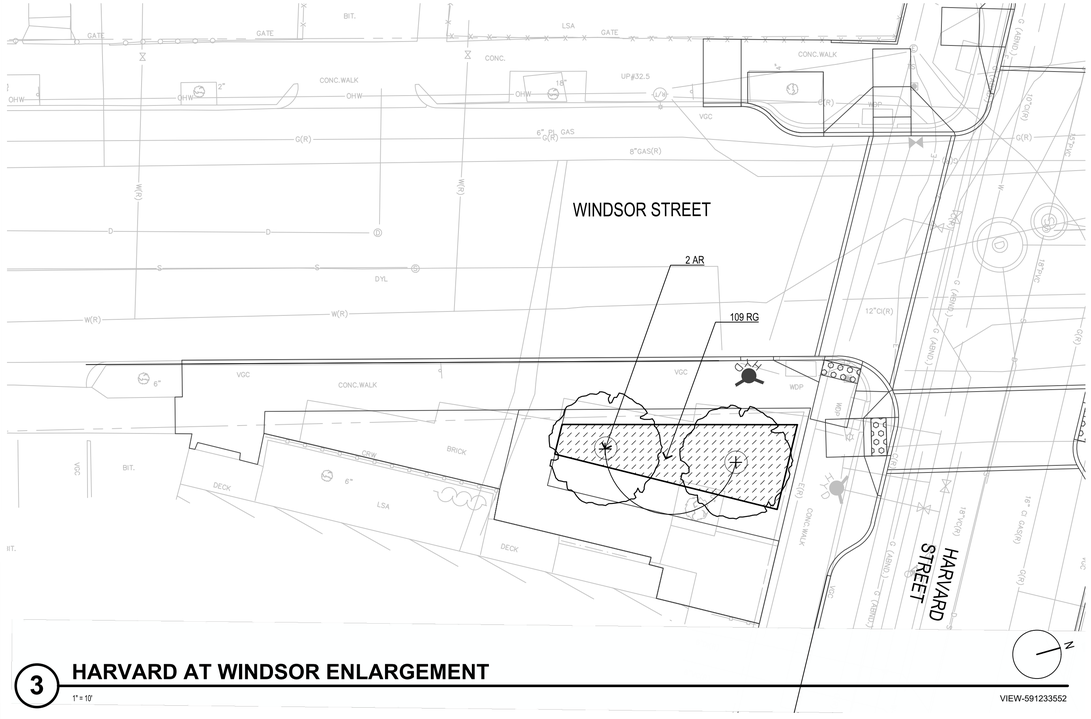
VIEW-183770955



2 BISHOP ALLEN AT DOUGLASS ENLARGEMENT

1" = 10'

VIEW-369032026



3 HARVARD AT WINDSOR ENLARGEMENT

1" = 10'

VIEW-591233552

0 10' 20'

CONFORMED

Scale	1" = 10'				
Date	APRIL 2026				
Job No.	20201034.009A				
Designed by	LG, AF				
Drawn by	LG				
Checked by	ST, CF	No.	Description	Date	
Approved by	CF	REVISIONS			

KLEINFELDER Bright People. Right Solutions.

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MASSACHUSETTS CHRISTOPHER T. FE NO. 1567 REGISTERED LANDSCAPE ARCHITECT

THE WORKS — CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

Client: CITY OF CAMBRIDGE, MASSACHUSETTS

Project: PORT INFRASTRUCTURE PHASE II PROJECT PACKAGE 1

Drawing: LANDSCAPE PLANTINGS PLANTING PLAN V

Sheet: LP-105

File No.: 30724

CAD FILE: C:\Users\strotter\DC\ACCDocs\Stantec Consulting\19513\200_Morgan_Tanks_Complete_Street\Project Files\9 _WIP\05_landscape\drawing\19513\200_planting-shared-streets-1 - Copy.dwg LAYOUT: LP-100 BY: trotter, sydney