CO

EM

F&C

EXISTING LEGEND

DOWNSPOUT - INTO FOUNDATION APPROXIMATE AVENUE DIVERTED FROM FOUNDATION ONTO SURFACE of/S BUILDING BLDG BACKWATER VALVE DOWNSPOUT - INTO GROUND CLEANOUT CONC CONCRETE DIVERTED FROM GROUND ONTO SURFACE DOWNSPOUT - ONTO SURFACE

OPEN ELBOW INTO FOUNDATION DRY WELL

DRY WELL

(EXTERIOR DRAIN)

(INTERIOR DRAIN)

BUILDING DRAIN PIPE

BUILDING LATERAL EXTENSION

ELEC ELECTRICAL PANEL WATER METER ELECTRICAL METER EXISTING GAS METER **EXIST** DS TO FOUNDATION DRAIN ELECTRIC METER

FLOOR DRAIN FD FLAT ROOF DRAIN DS INTO GROUND

FRAME AND COVER

MANHOLE NUMBER

OPEN ELBOW POLYETHYLENE

PROP PROPOSED

POLYVINYL CHLORIDE PVC

RAIN BARRELL

REINFORCED CONCRETE PIPE RC OR RCP

REMOVE AND LEGALLY DISPOSE OF

ROAD / ROOF DRAIN

REMOVE AND REPLACE DS TO SURFACE

ROOF LEADER

SANITARY SEWER

STORM DRAIN SEWER MANHOLE SUMP PUMP

SS SANITARY STACK

STATION STREET

WATER GATE WATER METER PROPOSED LEGEND

BUILDING LATERAL EXTENSION (EXTERIOR DRAIN)

o F

o G

o G/S

0 S

0 OE

Ø WM

Ø GM

Ø EM

BUILDING DRAIN PIPE (INTERIOR DRAIN)

SEWER LATERAL (PUBLIC)

DRAIN LATERAL (PUBLIC)

RESTORATION OF WALKWAY OR DRIVEWAY DISTURBED

RESTORATION OF LANDSCAPING AND VEGETATION AREAS DISTURBED

CAPPED PIPE

DRY WELL

GENERAL NOTES

1. CONTRACTOR SHALL NOT ENTER A PRIVATE PROPERTY UNTIL A WRITTEN AGREEMENT HAS BEEN SIGNED BETWEEN THE CONTRACTOR, BUILDING OWNER, AND CITY OF CAMBRIDGE. REFER TO SPECIFICATION SECTION 02534 FOR REQUIREMENTS.

2. CONTRACTOR SHALL PROVIDE A LICENSED PLUMBER TO PERFORM BUILDING INFLOW REMOVAL WORK GOVERNED BY 248 CMR 10.00: UNIFORM STATE PLUMBING CODE. CONTRACTOR SHALL PROVIDE ALL COUPLINGS, FITTINGS, BACKWATER VALVES AND CLEANOUTS AS REQUIRED BY 248 CMR

3. ALL EXISTING SEWER SERVICES SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE PLAN TO ENSURE THAT ALL SEWER CUSTOMERS HAVE CONTINUOUS SEWER SERVICE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH BUILDING OWNERS AS NECESSARY TO COORDINATE CONSTRUCTION DURING LOW FLOW TIMES. CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING TO MAINTAIN CONTINUOUS SERVICE. CONTRACTOR SHALL SET UP BYPASS PUMPING PIPING TO ALLOW BUILDING OWNER ACCESS TO THEIR DRIVEWAYS. CONSTRUCTION SEQUENCE AND BYPASS PUMPING PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ANY EXCAVATION.

THE OUTLINES OF EXISTING VERTICAL STRUCTURES ARE SHOWN PER CITY OF CAMBRIDGE GIS MAPPING PUBLISHED 2012. SEWER, DRAIN, AND OTHER SERVICE LOCATIONS ARE SHOWN AT APPROXIMATE LOCATIONS ON THE DRAWINGS BASED ON TELEVISION INSPECTION AND OWNER RECORDS. WHERE NO RECORDS WERE AVAILABLE, SERVICE LOCATIONS WERE APPROXIMATED. SEWER, DRAIN, AND OTHER SERVICE LOCATIONS AND PRIVATE STRUCTURES SHALL BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL INSTALL SEWER SERVICES (AS A MINIMUM) TO THE PROPERTY WHERE INDICATED. INACTIVE OR ABANDONED SERVICES SHALL BE CUT AND CAPPED.

UTILITY WORK INFORMATION SHOWN WAS BASED ON FIELD SURVEY DATA AND RECORD INFORMATION. THE LOCATIONS OF UNDERGROUND UTILITIES HAVE BEEN ESTABLISHED FROM SURFACE FEATURES OBSERVED DURING THE SURVEY. THE LOCATIONS OF UNDERGROUND STRUCTURES ARE APPROXIMATE ONLY AND MAY VARY FROM THE LOCATIONS SHOWN. ADDITIONAL UNDERGROUND UTILITIES AND/OR STRUCTURES MAY BE

NOT ALL OF THE STORM, SANITARY, WATER, GAS, TELEPHONE, CABLE, ELECTRICAL SERVICES, AND OTHER OVERHEAD OR UNDERGROUND UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY WILL HAVE SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES. SIZE, MATERIAL, AND LOCATION OF EXISTING UTILITIES AND SERVICES IN PROJECT VICINITY SHALL BE VERIFIED OR DETERMINED BY THE CONTRACTOR. RECORD DRAWINGS PREPARED BY THE CONTRACTOR FOR THIS PROJECT SHALL INCLUDE THIS FIELD VERIFIED INFORMATION. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING UTILITY INFORMATION.

7. ALL NEW AND RECONNECTED SANITARY SEWER SERVICES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE A MINIMUM OF 6" PVC OR SHALL MATCH THE EXISTING SERVICE SIZE, UNLESS OTHERWISE NOTED. WHERE THE EXISTING SERVICE SIZE IS 5" OR SMALLER, CONTRACTOR SHALL TRANSITION TO 6" PVC. REMOVE AND DISPOSE OF SECTIONS OF SERVICES REPLACED. CONTRACTOR TO PROVIDE FITTINGS AS REQUIRED FOR COMPLETE INSTALLATION.

8. ALL NEW AND RECONNECTED DRAIN LATERALS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE A MINIMUM OF 6" PVC OR SHALL MATCH THE EXISTING SERVICE SIZE, UNLESS OTHERWISE NOTED. WHERE THE EXISTING SERVICE IS 5" OR SMALLER, CONTRACTOR SHALL TRANSITION TO A 6" PVC. REMOVE AND DISPOSE OF SECTIONS OF SERVICES REPLACED. CONTRACTOR TO PROVIDE FITTINGS AS REQUIRED FOR COMPLETE INSTALLATION.

9. CONTRACTOR SHALL REMOVE AND REPLACE DISTURBED SIDEWALKS, LANDSCAPING, DRIVEWAYS, DRIVEWAY APRONS, CURBS, AND BUILDING INTERIORS WITH LIKE MATERIALS.

10. REFER TO SHEETS CP-9, CP-10 AND CP-11 FOR INFLOW REMOVAL DETAILS.

11. SUGGESTED SEQUENCE OF WORK:

A. INSTALL NEW SEWER OR DRAIN IN STREET BEGINNING AT THE DOWNSTREAM TERMINUS OF PROJECT AREA.

B. PERFORM SEWER CIPP LINING AND/OR SECTIONAL REPAIRS OF EXISTING SEWER OR DRAIN.

C. RECONNECT EXISTING AND INSTALL NEW SERVICES FROM MAIN IN STREET TO PROPERTY LINE.

D. ABANDON OR REMOVE EXISTING COMBINED SEWERS (NOTE: IN SOME LOCATIONS, THIS WORK WILL COINCIDE WITH THE INSTALLATION OF NEW SEWER OR DRAIN LINES.

E. INSTALL BUILDING DRAIN LATERALS FROM PROPERTY LINE TO BUILDING. PROCEED STREET BY STREET BEHIND THE INSTALLATION OF NEW SEWER OR DRAIN IN STREET.

F. ON STREETS WHERE THE EXISTING COMBINED PIPE BECOMES A DRAIN, ALL SANITARY FLOWS MUST BE REMOVED PRIOR TO COMPLETION OF THE CONTRACT. THIS MEANS THAT ANY NON-RESPONSIVE PROPERTY MUST HAVE ITS COMBINED LATERAL REDIRECTED TO THE NEW SANITARY SEWER. A STORM LATERAL WILL BE CAPPED AT THE PROPERTY LINE FOR FUTURE CONNECTION BY PROPERTY OWNER.

12. REFER TO APPENDIX F IN THE SPECIFICATIONS FOR BUILDING INSPECTION INFORMATION PREVIOUSLY OBTAINED.

CHRISTIAN E OLANDER CIVIL NO. 55676 BUILDING A BETTER WORLD

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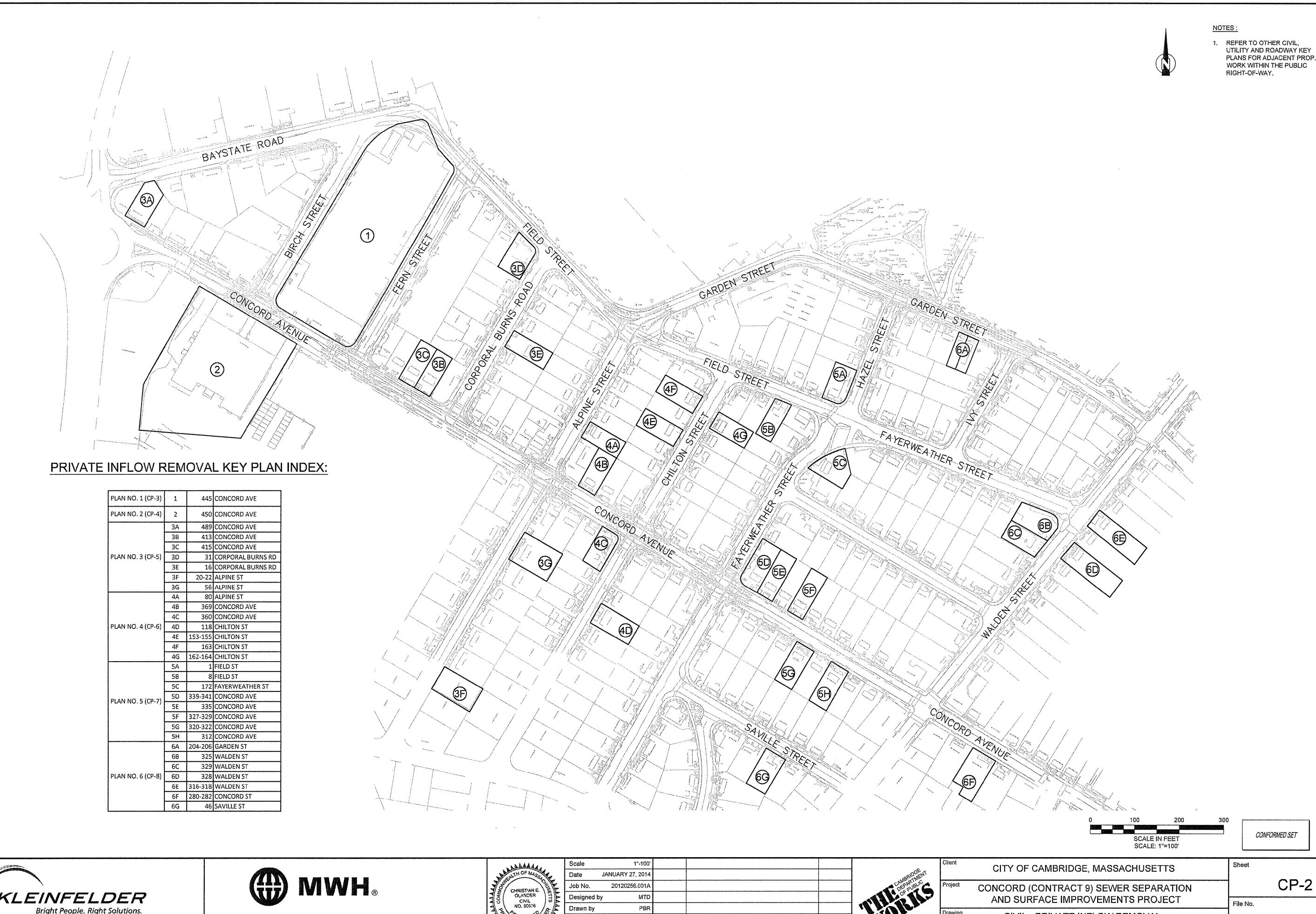
CITY OF CAMBRIDGE, MASSACHUSETTS CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT File No. CIVIL - PRIVATE INFLOW REMOVAL

LEGEND AND GENERAL NOTES

CONFORMED SET

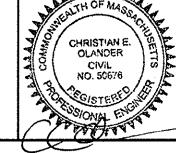
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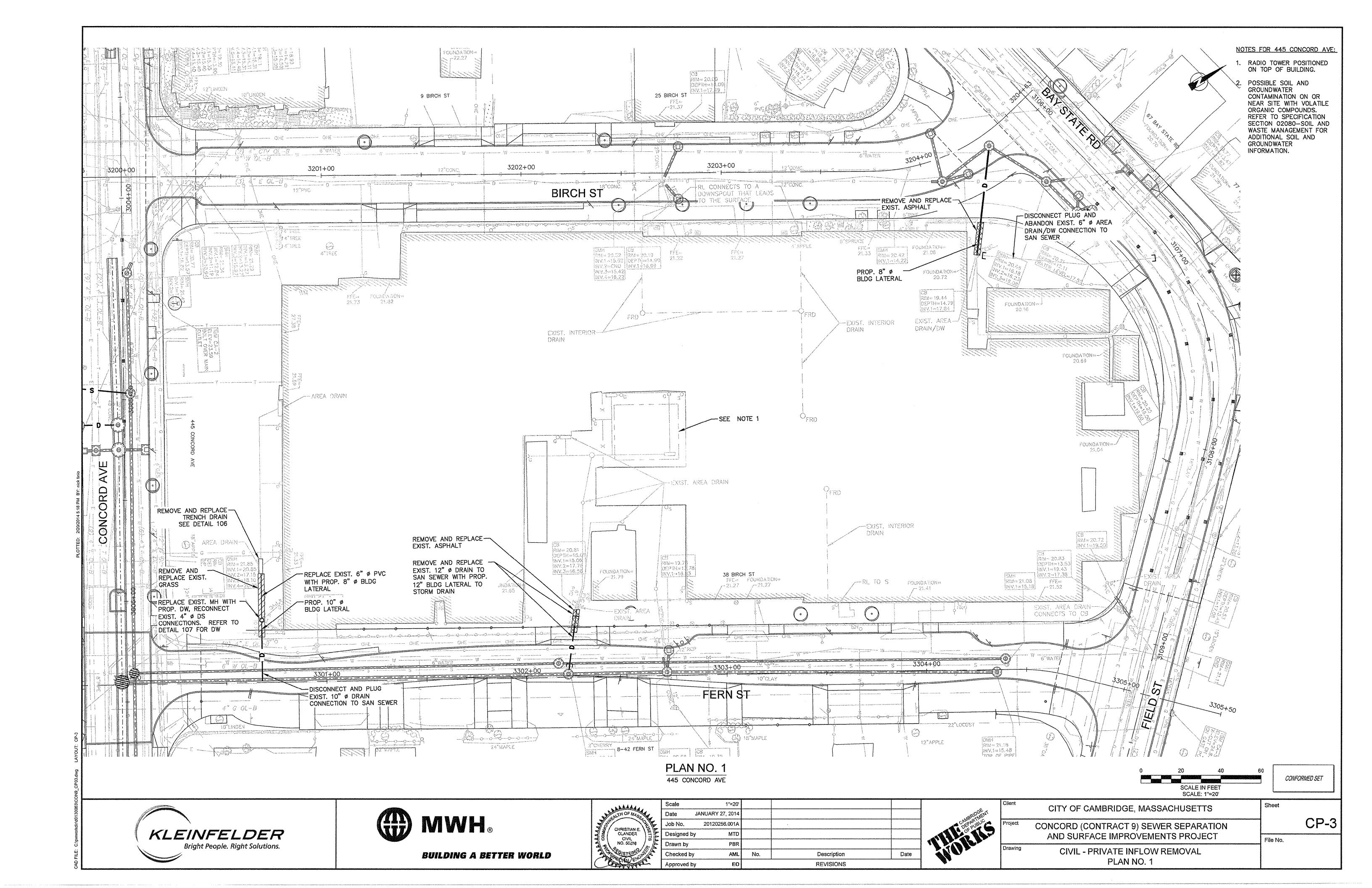


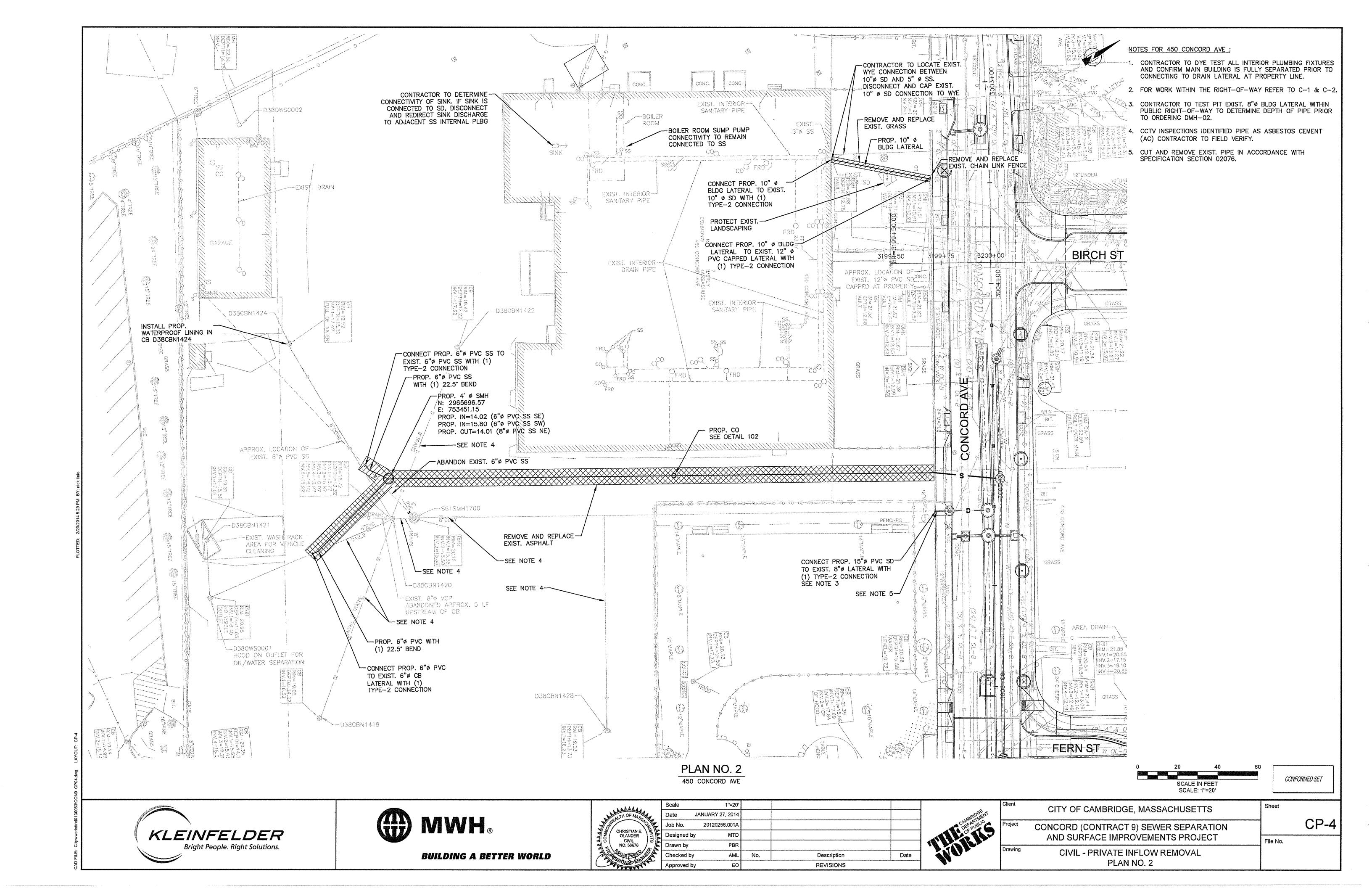


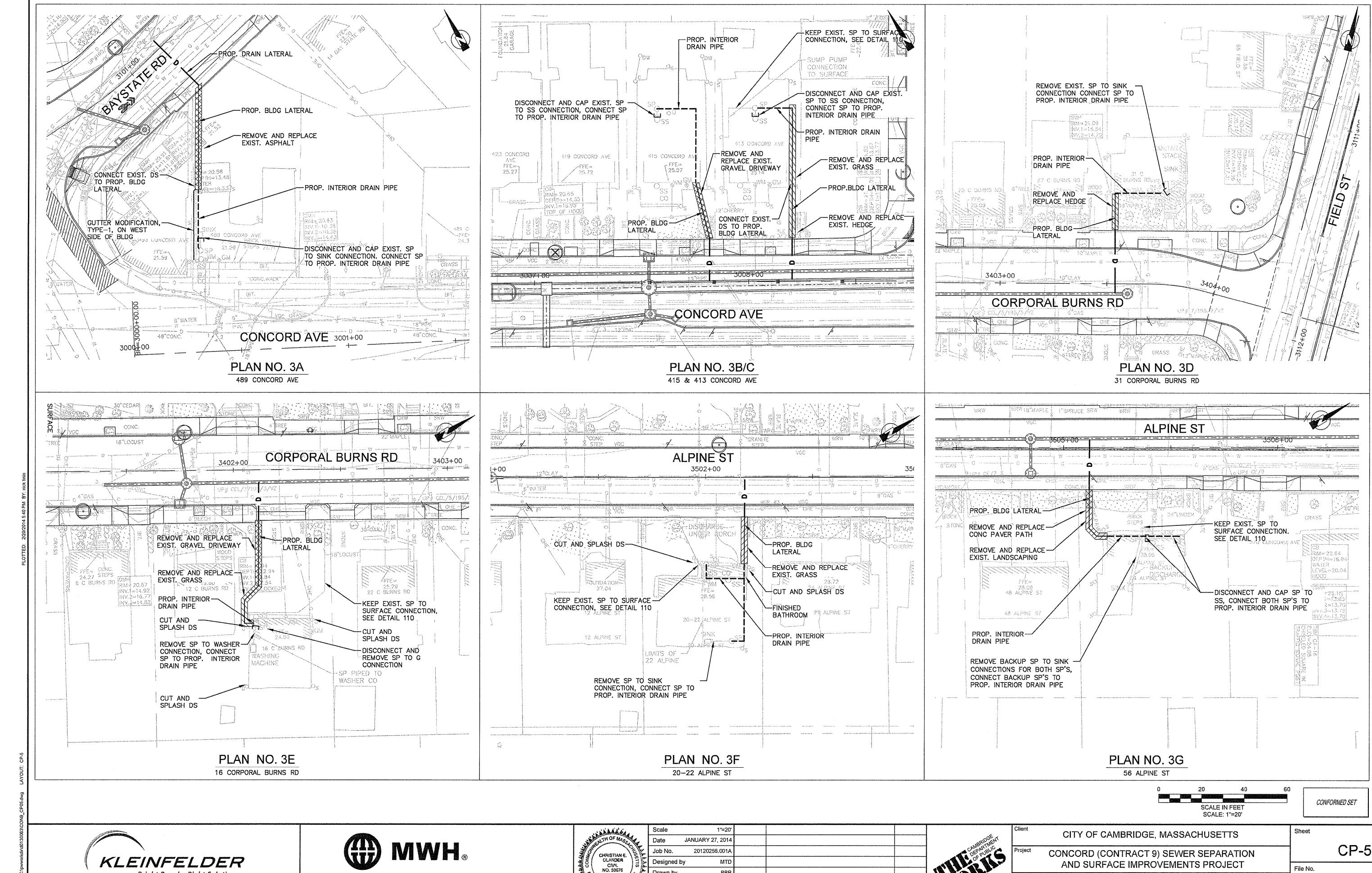
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CIVIL - PRIVATE INFLOW REMOVAL KEY PLAN



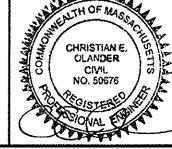




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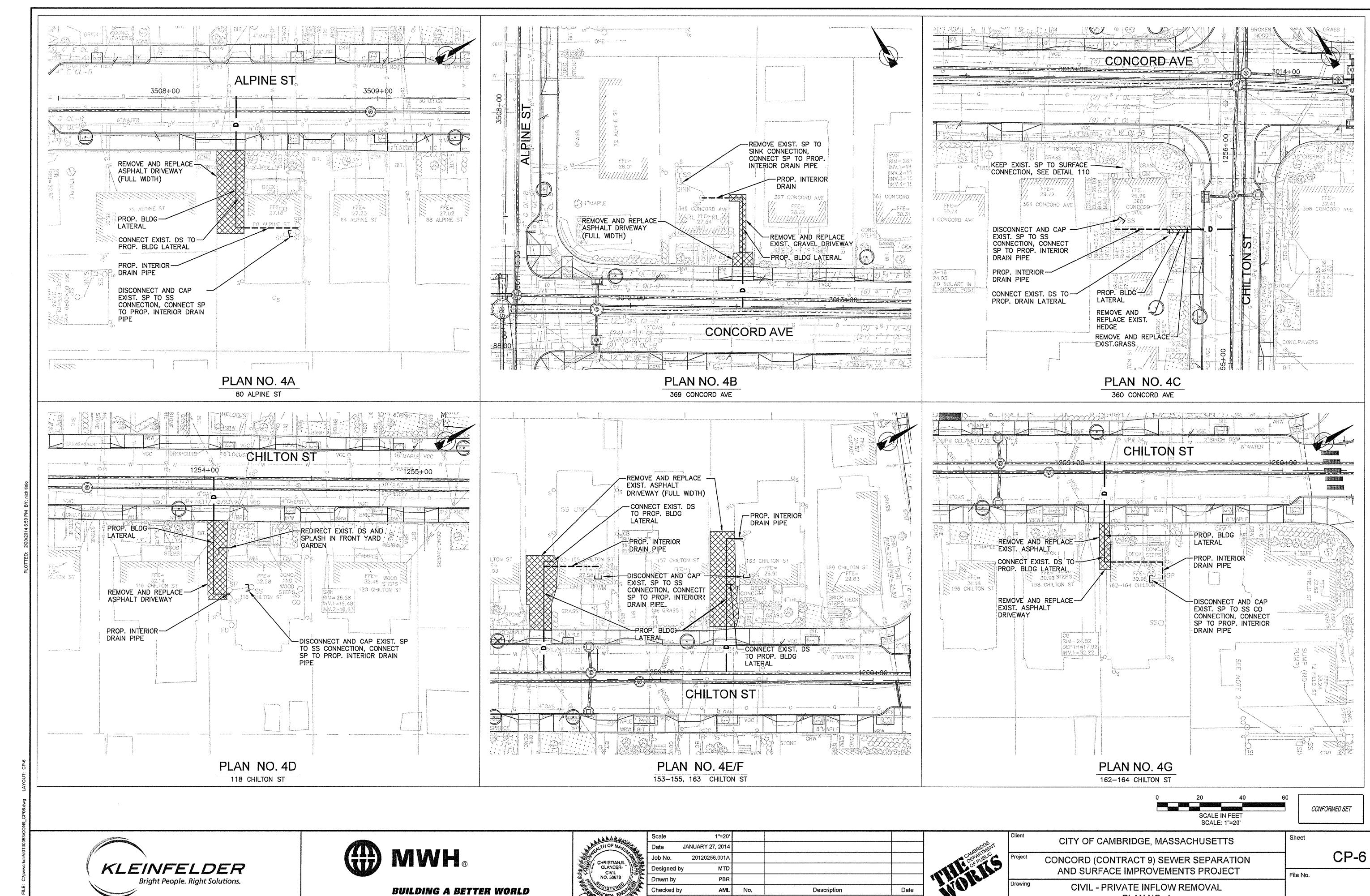
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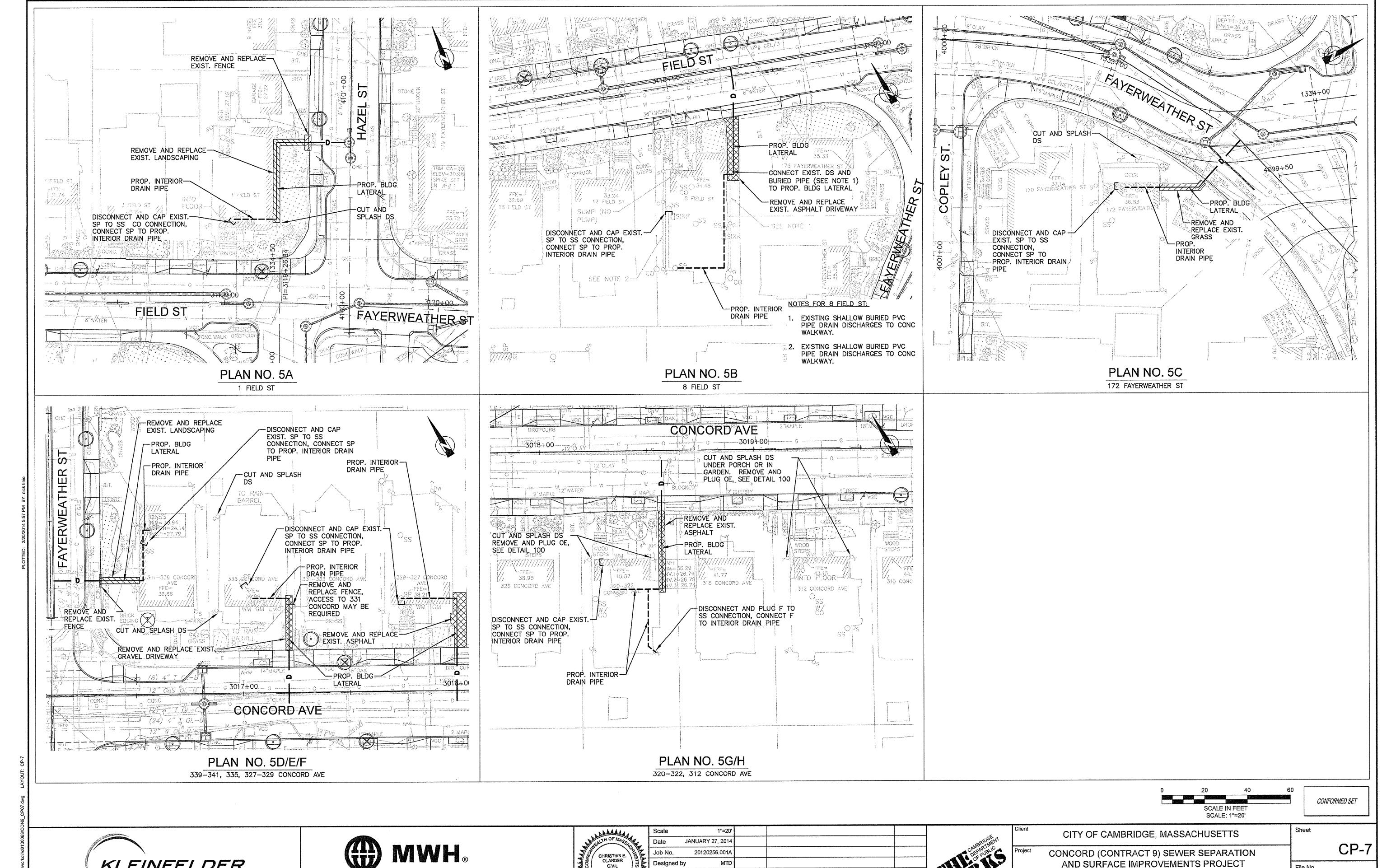




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PLAN NO. 4



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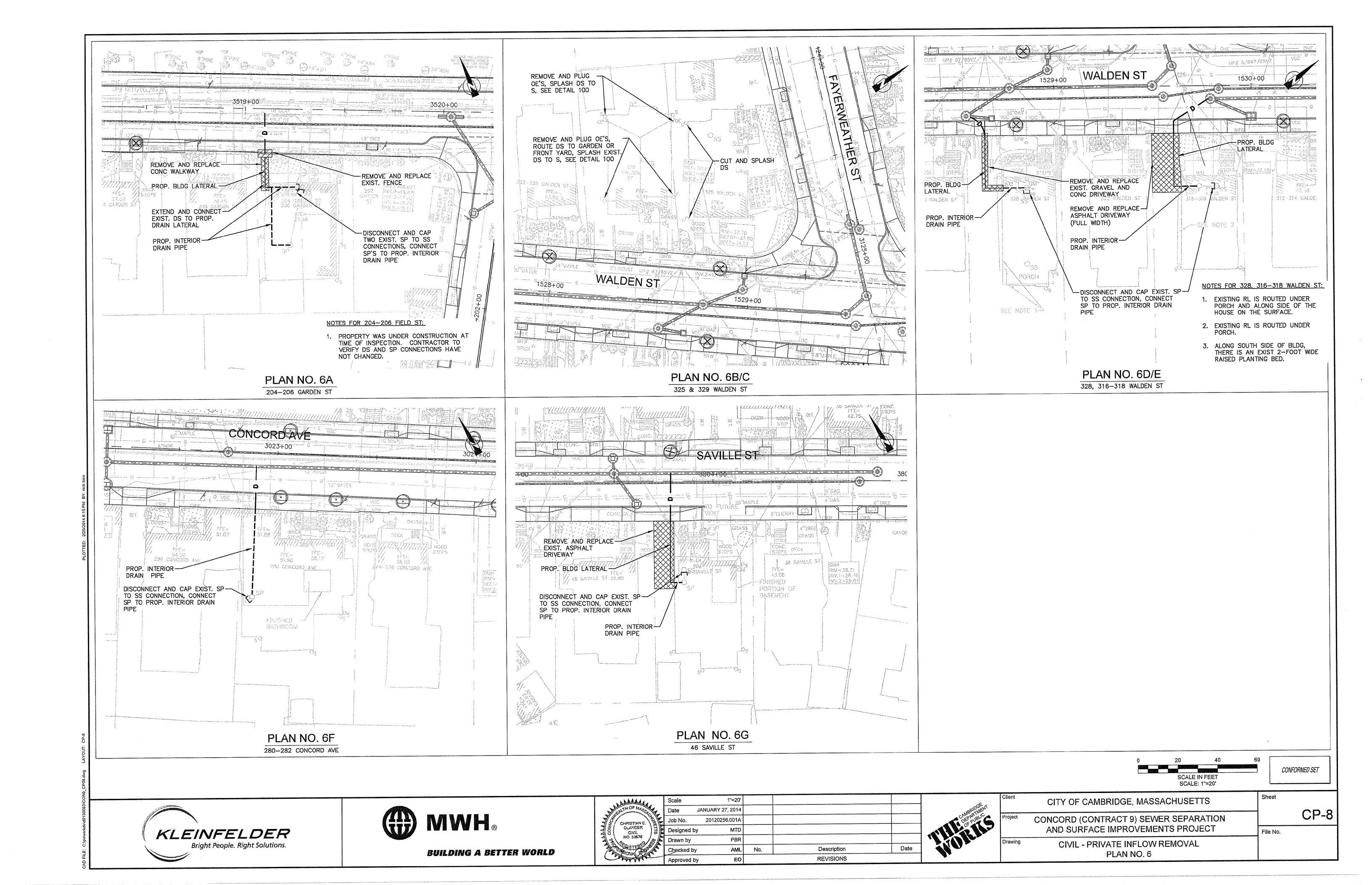


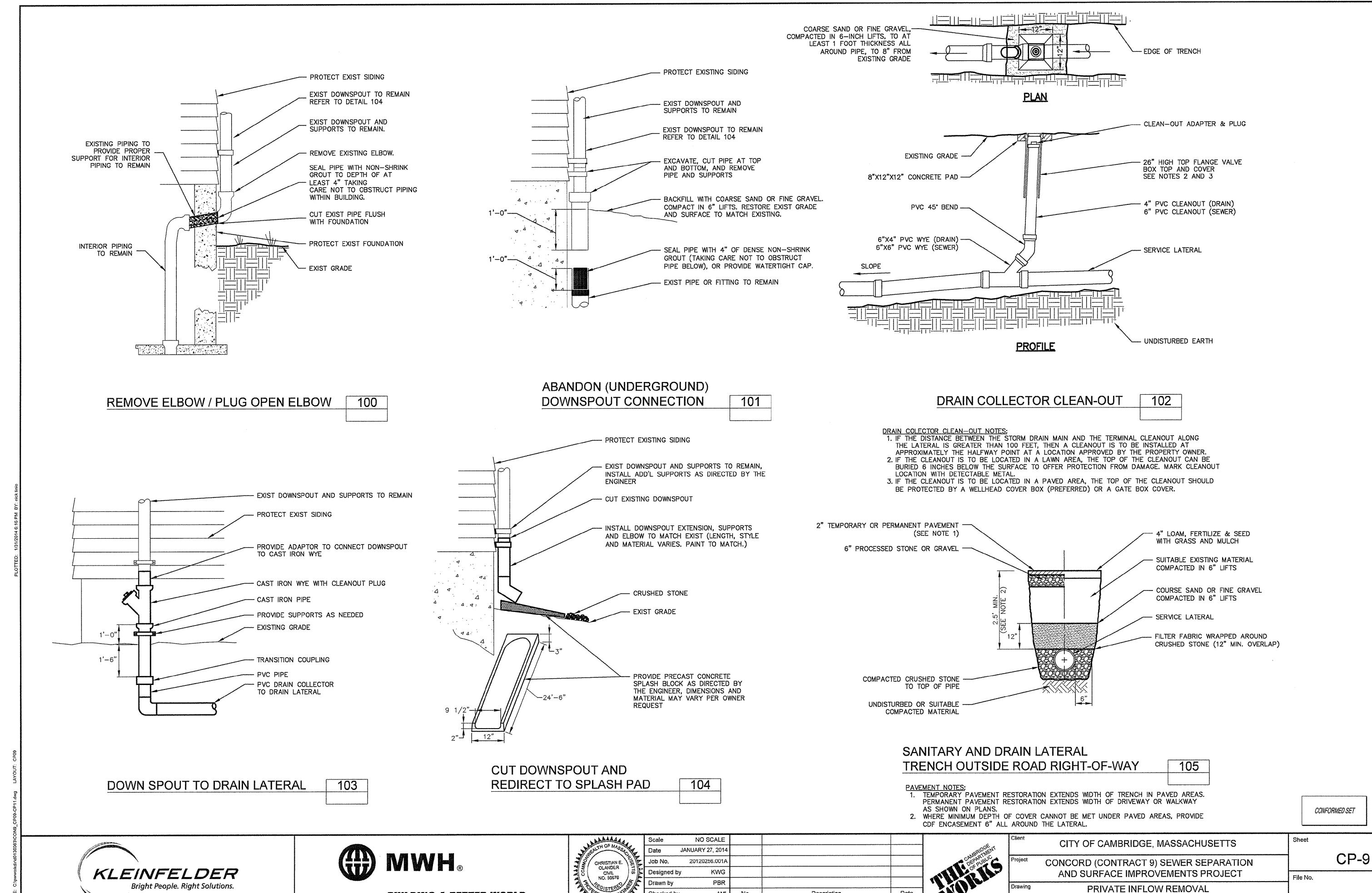
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AND SURFACE IMPROVEMENTS PROJECT CIVIL - PRIVATE INFLOW REMOVAL

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PLAN NO. 5





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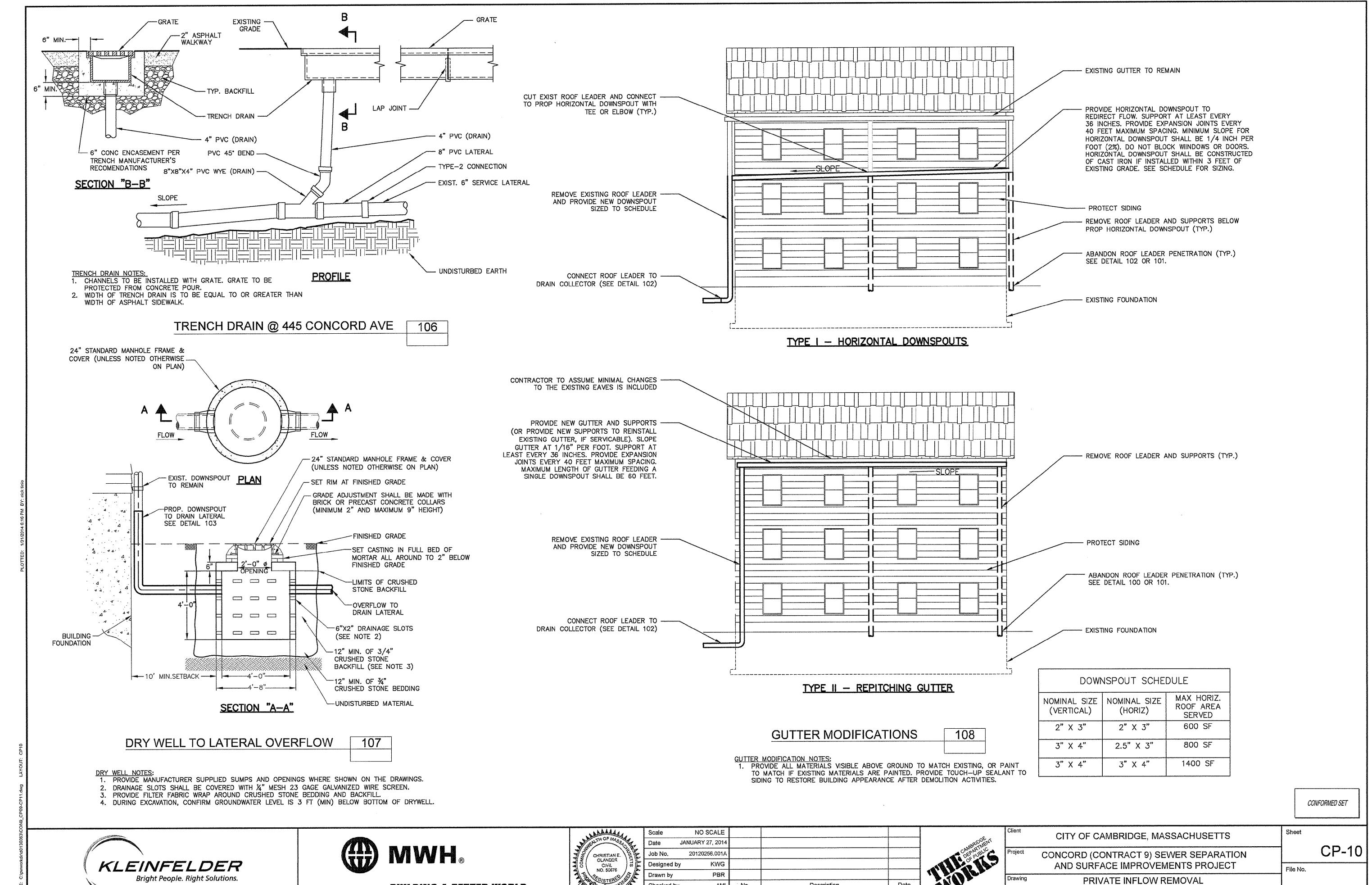
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Description

REVISIONS

DETAILS I



Checked by

AML

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Date

DETAILS II

Description

REVISIONS

