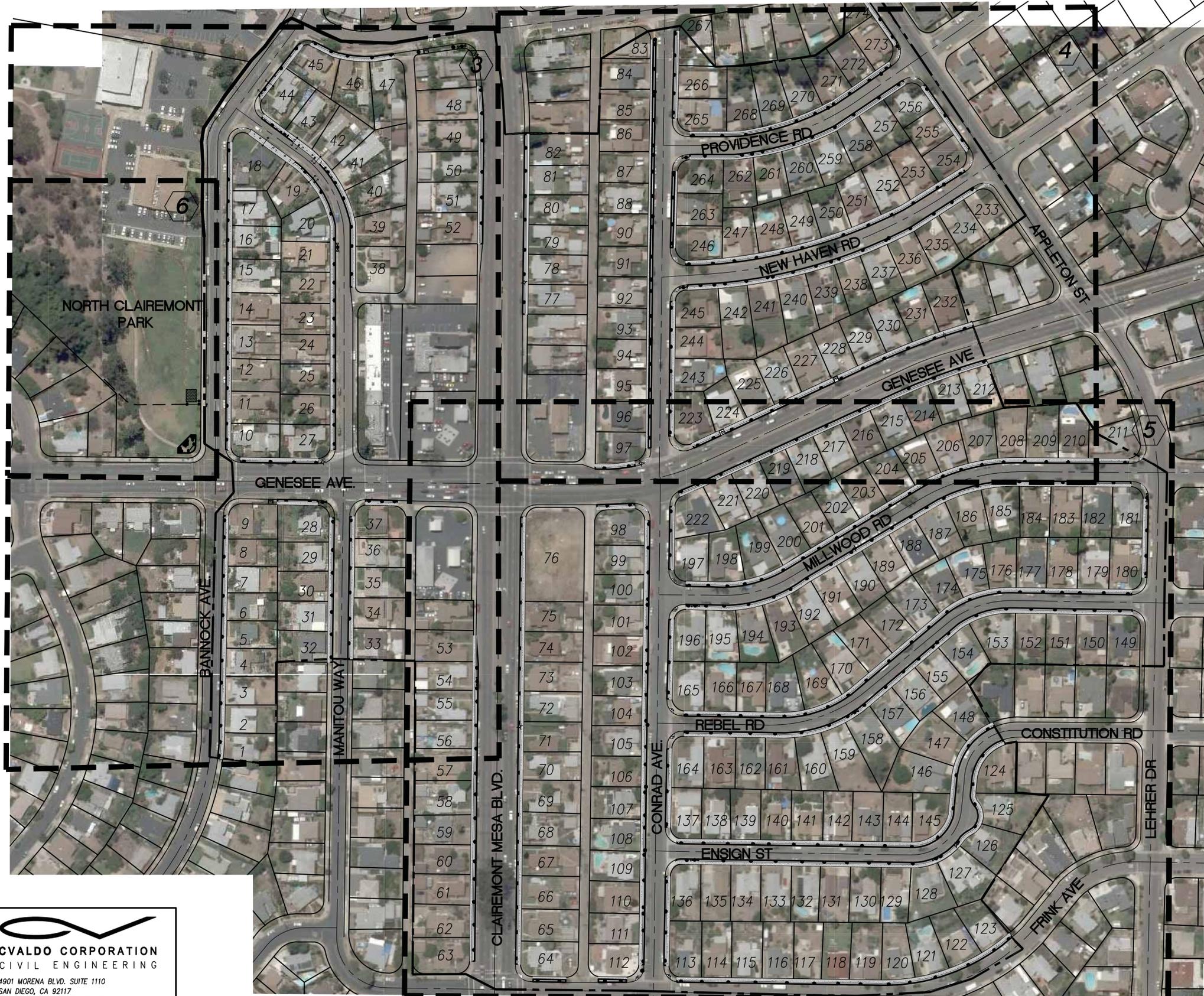
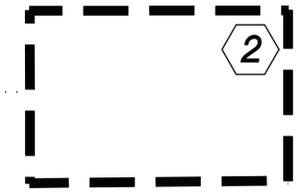


BANNOCK AVENUE NEIGHBORHOOD STREETScape ENHANCEMENTS AND BACTERIA TREATMENT FOR TECOLOTE CREEK WATERSHED PROTECTION - CONCEPT PLAN



LEGEND

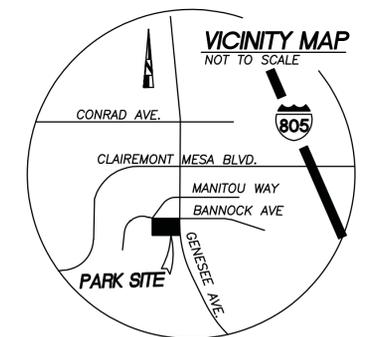
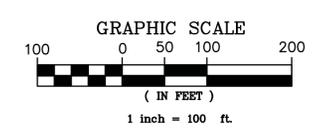
- EXISTING FIRE HYDRANT:
- EXISTING LIGHT POLE:
- EXISTING SDG&E MANHOLE:
- EXISTING SDG&E BOX:
- EXISTING POWER POLE:
- WATERSHED BOUNDARY:
- PROPOSED CURBSIDE INFILTRATION PLANTER:
- PROPOSED BIORETENTION CELL AND LANDSCAPE PLANTING:
- PROPOSED PERVIOUS CONCRETE SIDEWALK AND/OR STREET SECTION:
- PROPOSED PCC DISABLED ACCESS RAMP:
- PROPOSED BIORETENTION CELL:



SHEET NUMBER

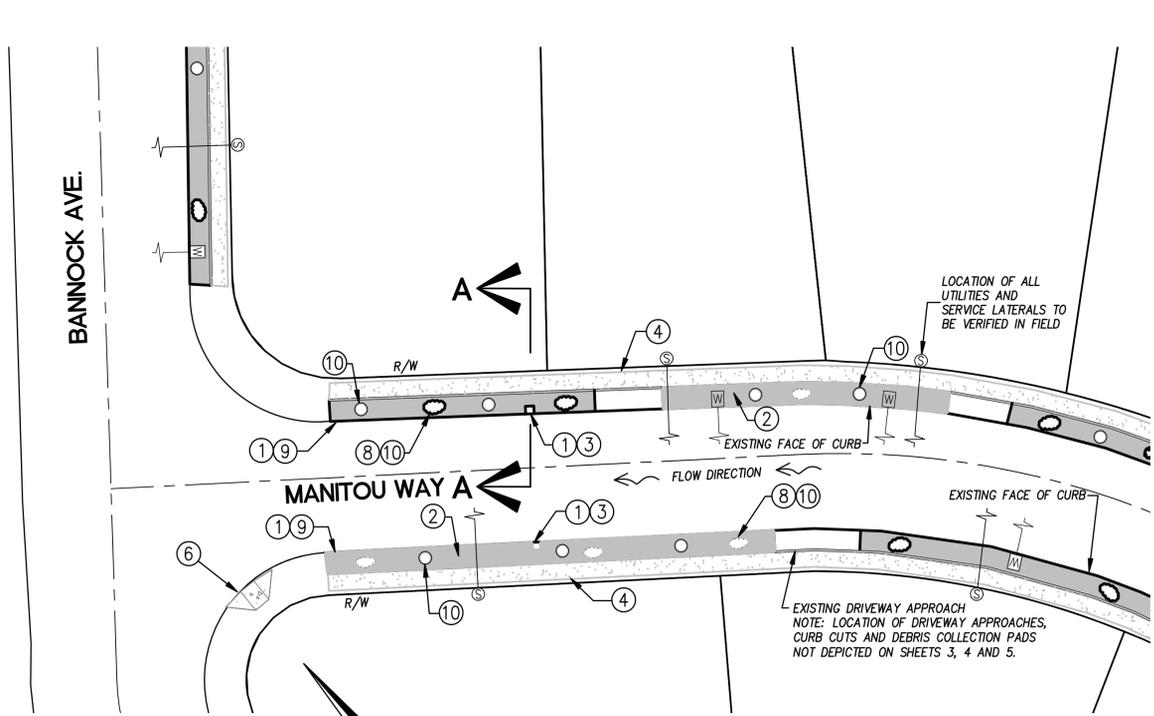
NOTES

1. STRUCTURAL SECTION OF PERVIOUS CONCRETE SIDEWALK TO BE DETERMINED DURING FINAL DESIGN. SECTION AS CALLED OUT IS ONLY FOR COST ESTIMATING PURPOSES.
2. PLANTING CALLED OUT ONLY FOR COST ESTIMATING PURPOSES. FINAL PLANT SPACING AND SPECIES TO BE DETERMINED DURING FINAL DESIGN.
3. INFILTRATION NOT TO BE USED IN EXPANSIVE SOILS. GEOTECHNICAL EVALUATION TO BE CONDUCTED OF SITE IN ORDER TO VERIFY EXPANSIVE SOILS ARE NOT PRESENT. SOIL REMEDIATION OR SELECTION OF AN ALTERNATE SITE MAY BE REQUIRED IF EXPANSIVE SOILS ARE PRESENT.
4. EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
5. APPROXIMATELY EVERY FIFTH HOUSE ALONG FLOW PATH TO HAVE 2' X 3' RECTANGULAR CLEANOUT PAD PER DETAIL A SHEET 2. EXACT LOCATION TO BE DETERMINED DURING FINAL DESIGN.
6. COST ESTIMATE ALLOWS FOR APPROXIMATELY 10% OF EXISTING DRIVEWAY APPROACHES TO BE REMOVED AND REPLACED IN KIND DUE TO POOR EXISTING CONDITION. LOCATIONS FOR REMOVAL AND REPLACEMENT OF DRIVEWAY APPROACHES TO BE DETERMINED DURING FINAL DESIGN.

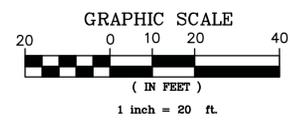


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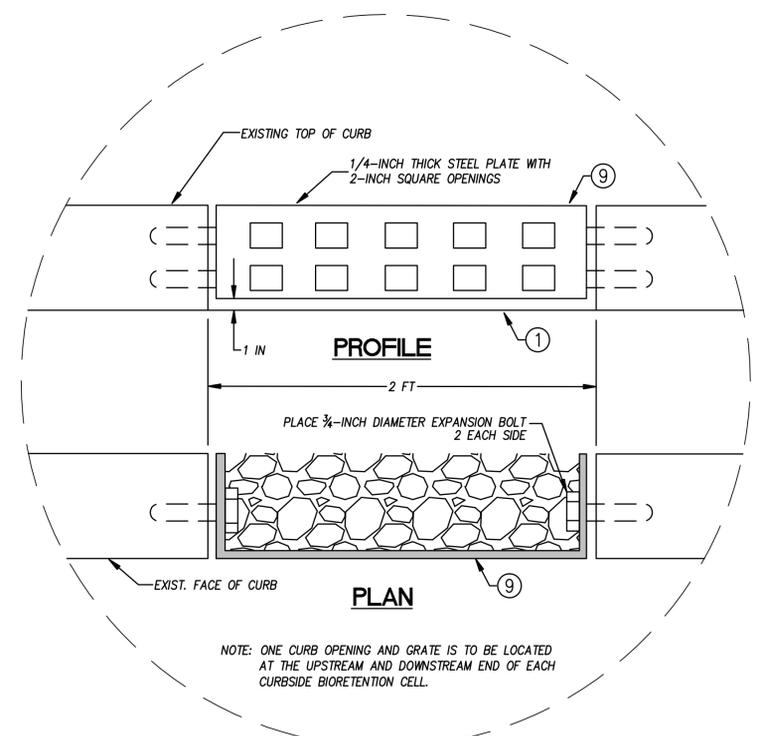
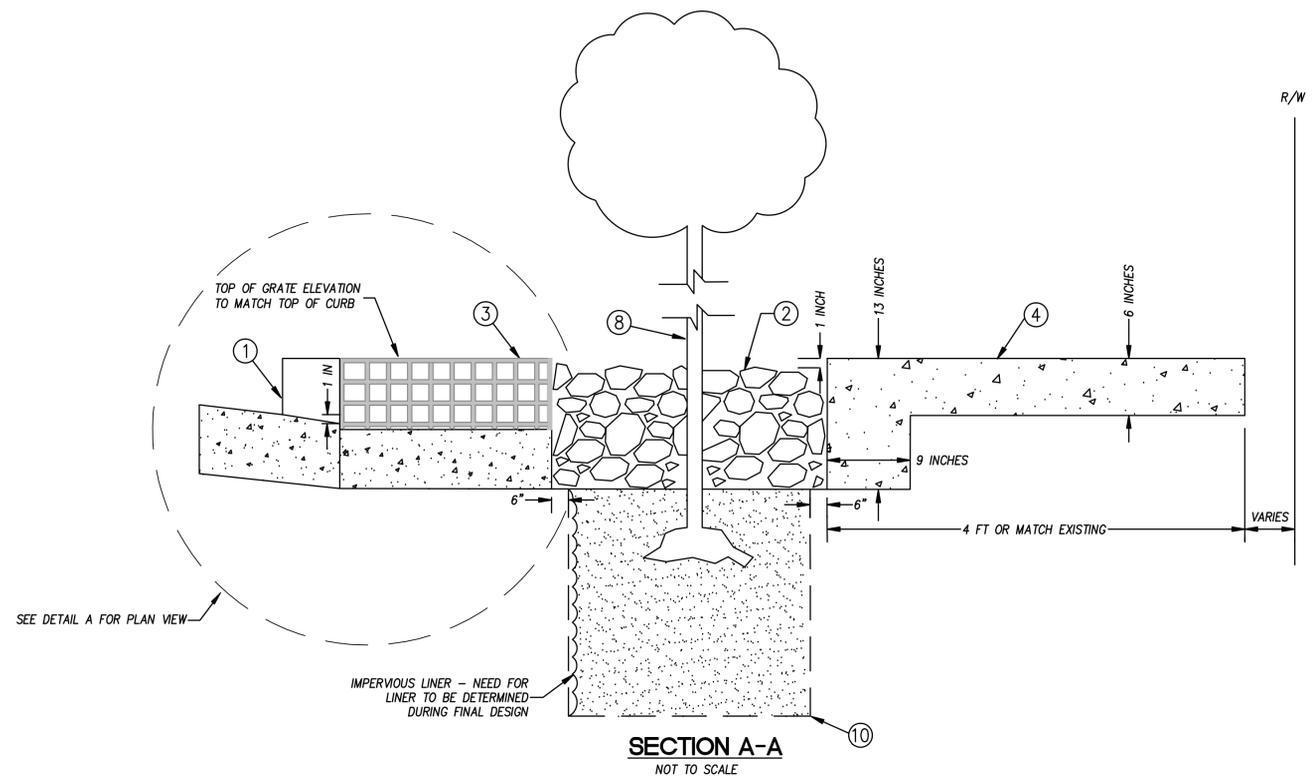


TYPICAL PLAN VIEW



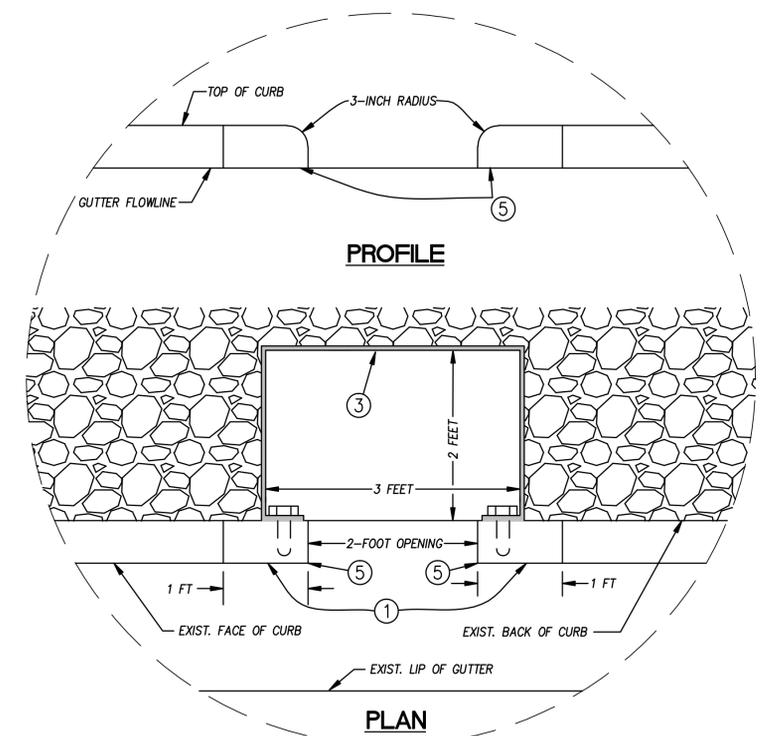
WORK TO BE DONE

- ① CUT AND GRIND 4-FOOT SECTION OF PCC CURB TO GUTTER FLOWLINE. GRIND ADDITIONAL 1 INCH TO DRAIN TOWARD PLANTER AT INFLOW OPENINGS ONLY.
- ② PLACE 3-INCH TO 6-INCH CRUSHED ROCK 1 FOOT THICK.
- ③ PLACE 2' X 3' RECTANGLE 4-INCH THICK CONCRETE DEBRIS COLLECTION PAD WITH 1/4-INCH THICK CORROSION RESISTANT STEEL GRATE - NO GALVANIZING PERMITTED. TOP OF PAD TO BE 0.2 FEET BELOW GUTTER FLOWLINE. REINFORCE CONCRETE WITH 10-GUAGE W/M. GRATE OPENINGS TO BE 2-INCH SQUARE. ATTACH GRATE TO CURB WITH 3/4-INCH EXPANSION BOLTS - 2 EACH SIDE. SEE DETAIL A. DEBRIS COLLECTION PAD TO OCCUR AT APPROXIMATELY EVERY FIFTH HOUSE. PRECISE LOCATIONS TO BE DETERMINED DURING FINAL ENGINEERING.
- ④ PLACE 6 INCH THICK PERVIOUS CONCRETE SIDEWALK - 4 FEET WIDE OR MATCH EXISTING. THICKER SECTION MAY BE REQUIRED AT CERTAIN DRIVEWAYS TO ACCOMMODATE COMMERCIAL LOADING. REPLACE EXISTING PCC DRIVEWAY APPROACHES WITH PERVIOUS CONCRETE DRIVEWAY APPROACH WHERE EXISTING APPROACH IS DAMAGED. COST ESTIMATE ASSUMES 10% OF DRIVEWAYS WILL REQUIRE REPLACEMENT.
- ⑤ RECONSTRUCT 1-FOOT OF 6-INCH CONCRETE CURB WITH CORNERS ADJACENT TO OPENING ROUNDED TO 3-INCH RADIUS PER DETAIL A.
- ⑥ CONSTRUCT NEW DISABLED ACCESS RAMP AND SIDEWALK PER SDSRD G-28 TYPE A-1 AND G-7.
- ⑧ PLACE 15-GALLON TREE OR SHRUB PER SECTION A-A. SPECIES, SPACING AND WATERING TO BE DETERMINE DURING FINAL ENGINEERING. PLANTING TO BE PLACED NO CLOSER THAN TEN FEET FROM SEWER MAINS OR LATERALS.
- ⑨ PLACE 1/4-INCH THICK CORROSION RESISTANT STEEL GRATE - NO GALVANIZING PERMITTED. GRATE OPENINGS TO BE 2-INCH SQUARE. ATTACH GRATE TO CURB WITH 3/4-INCH DIAMETER EXPANSION BOLTS - 2 EACH SIDE. SEE DETAIL B.
- ⑩ 3-FOOT DIAMETER BY 4-FOOT DEEP BIoretENTION CELL FILLED WITH AMENDED SOIL. NUMBER AND LOCATION TO BE DETERMINED DURING FINAL ENGINEERING. BIoretENTION CELLS MAY BE PLACED NO CLOSER THAN TEN FEET FROM SEWER MAINS OR LATERALS THAT HAVE NO PROTECTION FROM INFLOW OR INFILTRATION.



DETAIL B - PLANTER INFLOW/OUTFLOW

NOT TO SCALE



DETAIL A - PLANTER INFLOW WITH DEBRIS COLLECTION PAD

SCALE: 1" = 1'

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SEE SHEET 4

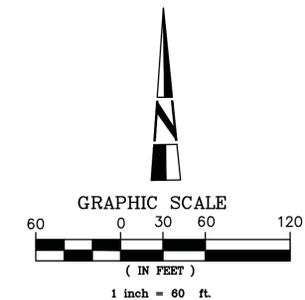


SEE SHEET 5

WORK TO BE DONE

- ⑥ CONSTRUCT NEW DISABLED ACCESS RAMP AND SIDEWALK PER SDRSD G-28 TYPE A-1 AND G-7.
- ⑦ PROTECT EXISTING DISABLED ACCESS RAMPS IN PLACE.
- ⑪ POTENTIAL LOCATION FOR GREEN STREETS NEIGHBORHOOD INFORMATIONAL SIGNAGE

INFILTRATION PLANTER AND PERVIOUS CONCRETE PER LEGEND ON SHEET 1 AND TYPICAL PLAN VIEW ON SHEET 2



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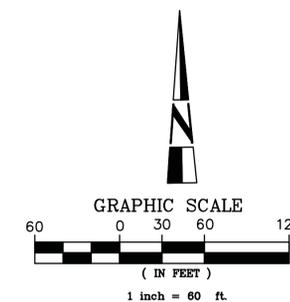


WORK TO BE DONE

- ⑥ CONSTRUCT NEW DISABLED ACCESS RAMP AND SIDEWALK PER SDRSD G-28 TYPE A-1 AND G-7.
- ⑦ PROTECT EXISTING DISABLED ACCESS RAMPS IN PLACE.
- ⑪ POTENTIAL LOCATION FOR GREEN STREETS NEIGHBORHOOD INFORMATIONAL SIGNAGE

INFILTRATION PLANTER AND PERVIOUS CONCRETE PER LEGEND ON SHEET 1 AND TYPICAL PLAN VIEW ON SHEET 2

SEE SHEET 3



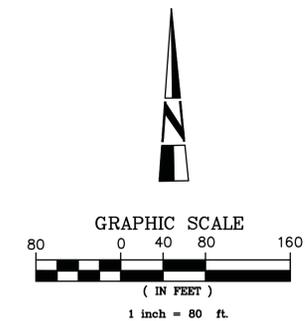
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WORK TO BE DONE

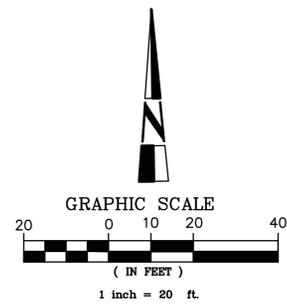
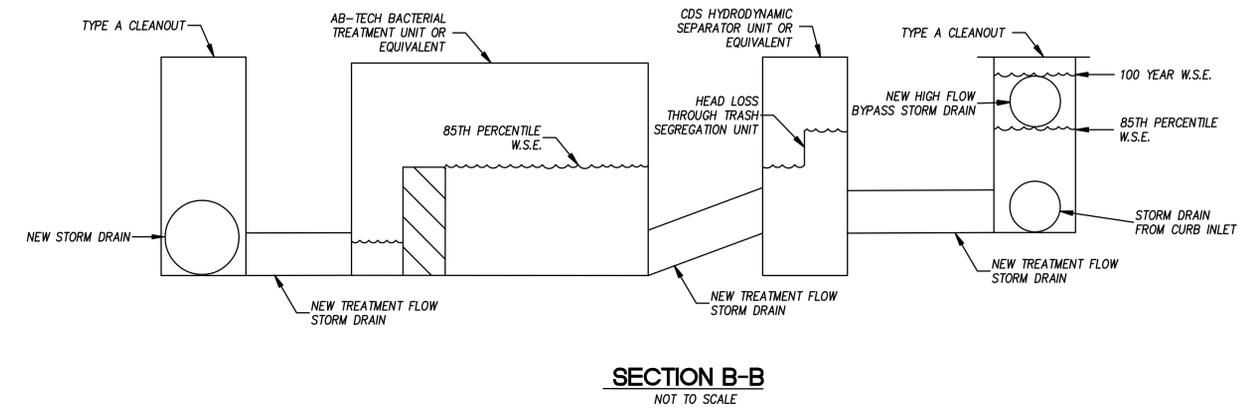
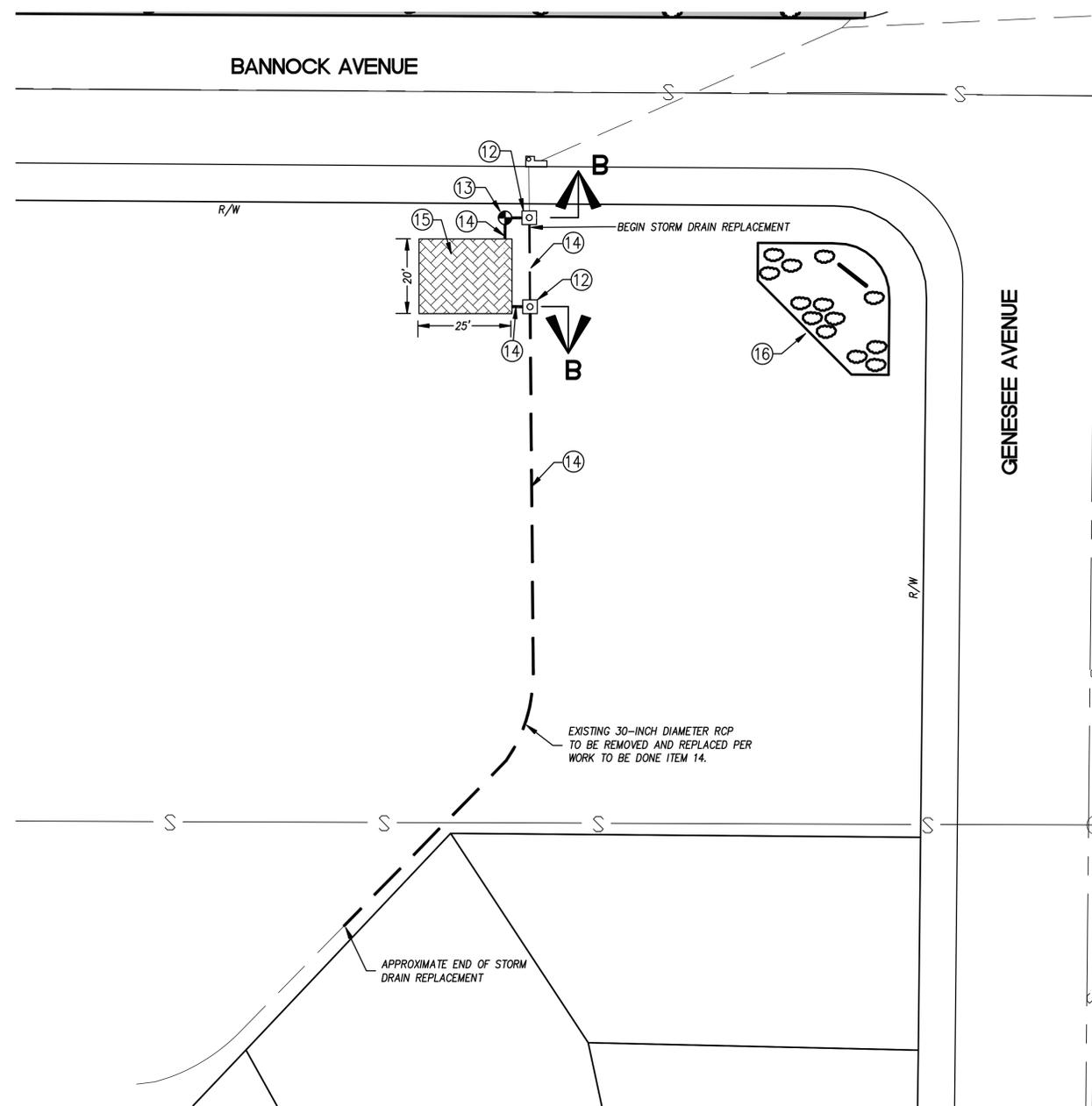
- ⑥ CONSTRUCT NEW DISABLED ACCESS RAMP AND SIDEWALK PER SDRSD G-28 TYPE A-1 AND G-7.
- ⑦ PROTECT EXISTING DISABLED ACCESS RAMPS IN PLACE.
- ⑪ POTENTIAL LOCATION FOR GREEN STREETS NEIGHBORHOOD INFORMATIONAL SIGNAGE

INFILTRATION PLANTER AND PERVIOUS CONCRETE PER LEGEND ON SHEET 1 AND TYPICAL PLAN VIEW ON SHEET 2



SEE SHEET 4
SEE SHEET 3

BANNOCK AVENUE NEIGHBORHOOD STREETScape ENHANCEMENTS AND BACTERIA TREATMENT FOR TECOLOTE CREEK WATERSHED PROTECTION - CONCEPT PLAN



WORK TO BE DONE

- ⑫ INSTALL STORM DRAIN CLEANOUT TYPE A PER SDRSD D-9
- ⑬ INSTALL HYDRODYNAMIC SEPARATOR UNIT
- ⑭ INSTALL RCP STORM DRAIN - TOTAL LENGTH ±210 LF
- ⑮ INSTALL AB-TECH SYSTEM OR EQUIVALENT. DIMENSIONS SHOWN ON PLANS ARE CONCEPTUAL AND MAY BE MODIFIED. TREATMENT FLOW TO BE APPROXIMATELY 9 CFS. RESTORE PARK LINES AND GRADES TO EXISTING CONDITIONS.
- ⑯ CONSTRUCT GREEN STREET NEIGHBORHOOD INFORMATION SIGN AND LANDSCAPED PLANTER RELOCATE EXISTING TRAIL TO ACCOMMODATE PLANTER AREA.

NOTES

1. DIMENSIONS FOR AB-TECH SYSTEM TO BE DETERMINED DURING FINAL DESIGN. DIMENSIONS CALLED OUT ARE FOR COST ESTIMATING PURPOSES ONLY. TREATMENT FLOW TO BE BASED ON 85TH PERCENTILE STORM EVENT.

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