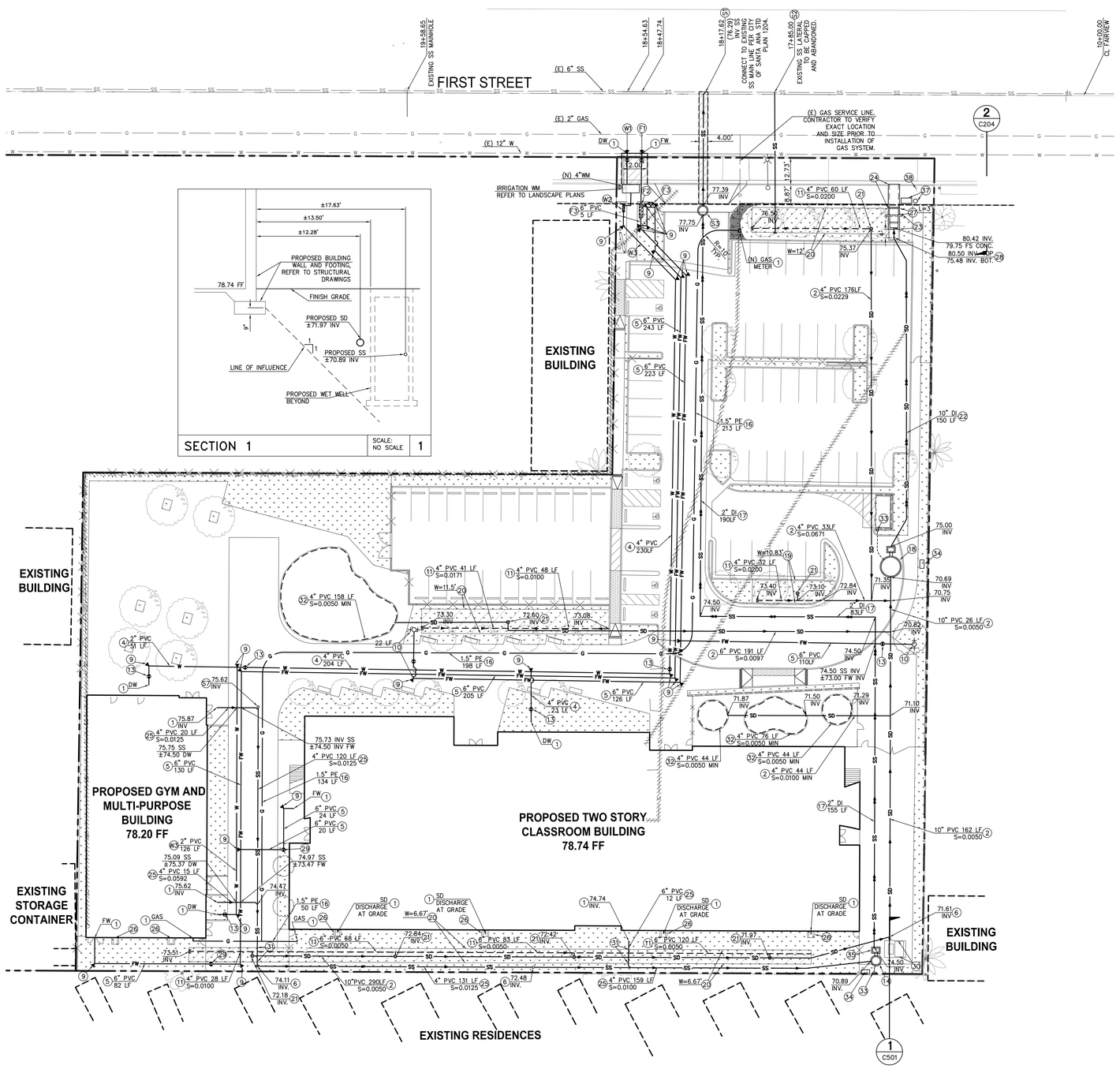

CITY OF SANTA ANA CONSTRUCTION KEY NOTES:

SEWER CONSTRUCTION NOTES:

(S1) CONSTRUCT 6"PVC-SDR35 SEWER LATERAL PER CITY STD#1204, WITH BEDDING & BACKFILL PER CITY STD#1208.

(S2) EXISTING SEWER LATERAL TO BE CAPPED AND ABANDONED.

(S3) USE (15)

WATER CONSTRUCTION NOTES:

(W1) CONSTRUCT 6"PVC WATER SERVICE & VAULT, PER CITY STD#1403B & 1403D WITH BEDDING AND BACKFILL PER CITY STD#1428. 4" WATER METER TO BE PROVIDED BY CITY FORCES UPON APPLICATION AND PAYMENT OF FEE.

(W2) USE (8)

(W3) USE (4)

FIRE CONSTRUCTION NOTES:

(F1) CONSTRUCT 6"PVC FIRE SERVICE, PER CITY STD#1417, WITH BEDDING AND BACKFILL PER CITY STD#1428.

(F2) USE (7)

(F3) USE (12)

CONSTRUCTION KEY NOTES:

1. POINT OF CONNECTION.
2. INSTALL PVC SDR35 STORM DRAIN PIPE WITH PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN.
3. INSTALL VCP HIGH STRENGTH SANITARY SEWER PIPE. SIZE, LENGTH, & SLOPE PER PLAN.
4. INSTALL PVC SCH 80 DOMESTIC WATER LINE. SIZE & LENGTH PER PLAN.
5. INSTALL 6"PVC AWWA C-900 PRESSURE CLASS 200 FIRE WATER LINE. REFER TO DETAIL 4 ON SHEET C202 FOR TRENCH SECTION. SIZE & LENGTH PER PLAN.
6. CONSTRUCT CLEANOUT PER DETAIL 2 ON SHEET C202.
7. INSTALL 6" DOUBLE DETECTOR CHECK ASSEMBLY, WILKINS MODEL 350 ADA OR APPROVED EQUAL. INSTALL TAMPER SWITCH AND CHAIN & LOCK BOX TO SECURE THE VALVES IN OPEN POSITION.
8. INSTALL 4" REDUCED PRESSURE PRINCIPAL ASSEMBLY, WILKINS MODEL 375 OR APPROVED EQUAL.
9. CONSTRUCT THRUST BLOCK PER DETAIL 1 ON SHEET C202.
10. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 15 ON SHEET C201.
11. INSTALL PERFORATED PVC SDR35 STORM DRAIN PIPE WITH PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN.
12. INSTALL FIRE DEPARTMENT CONNECTION. INSTALL PLAQUE WITH PROPERTY ADDRESS.
13. INSTALL GATE VALVE PER DETAIL 7 ON SHEET C202.
14. INSTALL SANITARY SEWER SUBMERSIBLE LIFT STATION BY ROMTEC UTILITIES OR APPROVED EQUAL. SEE DETAIL 1 ON SHEET C207. ALL PRECAST VAULTS/WELLS AND LIDS SHALL BE DESIGNED FOR HS20-44 LOADING AND BE MARKED AS SUCH.
15. CONSTRUCT SANITARY SEWER DROP MANHOLE PER DETAIL 4 ON SHEET C204 & SPPWC STD. PLAN 202-2. SEE NOTES 1 & 2 FOR LOAD RATING REQUIREMENTS.
16. INSTALL PE SDR 11 GAS LINE, MANUFACTURED ACCCORDING TO ASTM D2513, YELLOW COLOR. SIZE AND LENGTH PER PLAN.
17. INSTALL DUCTILE IRON SANITARY SEWER FORCE MAIN WITH MECHANICAL JOINT RESTRAINTS. PROVIDE CORROSIVE PROTECTIVE WRAP TO ISOLATE AND PROTECT PIPE. SIZE AND LENGTH PER PLAN. PIPE SHALL BE WRAPPED WITH TAPE INDICATING "FORCE SEWER MAIN, DO NOT CONNECT."
18. INSTALL STORMWATER SUBMERSIBLE LIFT STATION BY ROMTEC UTILITIES OR APPROVED EQUAL. SEE DETAIL 1 ON SHEET C205. ALL PRECAST VAULTS/WELLS AND LIDS SHALL BE DESIGNED FOR HS20-44 LOADING AND BE MARKED AS SUCH.
19. CONSTRUCT BIO-SWALE W/ PERFORATED SUBDRAIN PIPE PER DETAILS 9 ON SHEET C202. SIZE W PER PLAN. CAP THE UPSTREAM END OF THE SD PIPE.
20. CONSTRUCT BIO-SWALE W/ PERFORATED SUBDRAIN PIPE PER DETAILS 11 ON SHEET C202. SIZE W PER PLAN. CAP THE UPSTREAM END OF THE SD PIPE.
21. INSTALL OVERFLOW DRAIN PER DETAIL 10 ON SHEET C202. SEE SHEET C401 FOR INLET ELEVATION.
22. INSTALL DUCTILE IRON STORM DRAIN FORCE MAIN WITH MECHANICAL JOINT RESTRAINTS. PROVIDE CORROSIVE PROTECTIVE WRAP TO ISOLATE AND PROTECT PIPE. SIZE AND LENGTH PER PLAN. PIPE SHALL BE WRAPPED WITH TAPE INDICATING "FORCE STORM DRAIN MAIN, DO NOT CONNECT."
23. CONSTRUCT ENERGY DISSIPATOR STRUCTURE PER SPPWC STD PLAN 384-3 & DETAIL 1 ON SHEET C208, W=4'-0".
24. CONSTRUCT PARKWAY DRAIN PER SPPWC STD. PLAN 151-2, S=48", INLET TYPE 2.
25. INSTALL 4"PVC SDR35 SANITARY SEWER PIPE WITH PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN.
26. INSTALL CONCRETE SPLASH PAD PER DETAIL 16 ON SHEET C201.
27. CONSTRUCT CONCRETE CHANNEL PER DETAIL 12 ON SHEET C202. LENGTH PER PLAN.
28. INSTALL 8" DI VERTICAL PIPE RISER. RESTRAIN THE TOP ELBOW AGAINST THE ENCLOSURE WALLS.
29. INSTALL POST INDICATOR VALVE WITH TAMPER SWITCH.
30. SWITCHGEAR AND CONCRETE PAD PER ELECTRICAL PLANS.
31. STRAP BIO-SWALE GEOFABRIC TO PIPE TO ACCOMMODATE CROSSING SANITARY SEWER LINE AS NEEDED.
32. INSTALL PERFORATED PVC SDR35 STORM DRAIN PIPE WITH PUSH-ON JOINTS FOR RUBBERIZED PLAY SURFACE DRAINAGE. SIZE, LENGTH, & SLOPE PER PLAN. REFER TO LANDSCAPE AND ARCHITECTURAL PLANS FOR EDGE DETAILS.
33. INSTALL VENT FOR LIFT STATION. REFER TO MANUFACTURER'S SPECIFICATIONS.
34. INSTALL CONTROL PANEL FOR LIFT STATION. REFER TO MANUFACTURER'S SPECIFICATIONS.
35. INSTALL WASTEWATER VALVE VAULT BY ROMTEC UTILITIES OR APPROVED EQUAL. SEE DETAIL 1 ON SHEET C206.
36. REMOVE EXISTING AC PAVEMENT AND CONSTRUCT 12" FULL DEPTH AC PER DETAIL 1 ON SHEET C401.
37. REMOVE AND REPLACE EXISTING BENCH AND TRASH CAN.
38. PROTECT EXISTING STREET SIGN.

NOTES:

1. ALL PRECAST VAULTS/WELLS AND LIDS SHALL BE DESIGNED FOR HS20-44 LOADING AND BE MARKED AS SUCH.
2. ALL PRECAST VAULTS/WELLS SHALL BE MANUFACTURED IN A P.C.I. CERTIFIED PRE-CAST PLANT.
3. DUE TO THE PRESENCE OF ONSITE SOILS THAT ARE CORROSIVE TO FERROUS METALS, ALL UTILITY LINES CONSISTING OF FERROUS METALS SHALL BE PROVIDED WITH CORROSIVE PROTECTIVE WRAP TO ISOLATE AND PROTECT THE PIPE.

LEGEND

- PROPOSED GAS LINE
- EXISTING GAS LINE TO REMAIN
- PROPOSED FIRE WATER LINE
- PROPOSED DOMESTIC WATER LINE
- EXISTING WATER LINE TO REMAIN
- PROPOSED GRAVITY STORM DRAIN
- PROPOSED FORCED STORM DRAIN
- PROPOSED PERFORATED STORM DRAIN
- PROPOSED GRAVITY SEWER LINE
- PROPOSED FORCED SEWER LINE
- EXISTING SEWER LINE TO REMAIN
- EXISTING UTILITY TO BE REMOVED
- EXISTING BUILDING
- NEW BUILDING
- BIOSWALES

PROJECT

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No.C65405
CIVIL
State of California
FOR BRANDOW & JOHNSTON, INC

Classroom Building

No.	Submittal	Date
1	Schematic Design Package	11-13-2012
2	Design Development Package	12-17-2012
3	DSA Submittal	01-07-2014

Job Number:

Utility Plan

C501