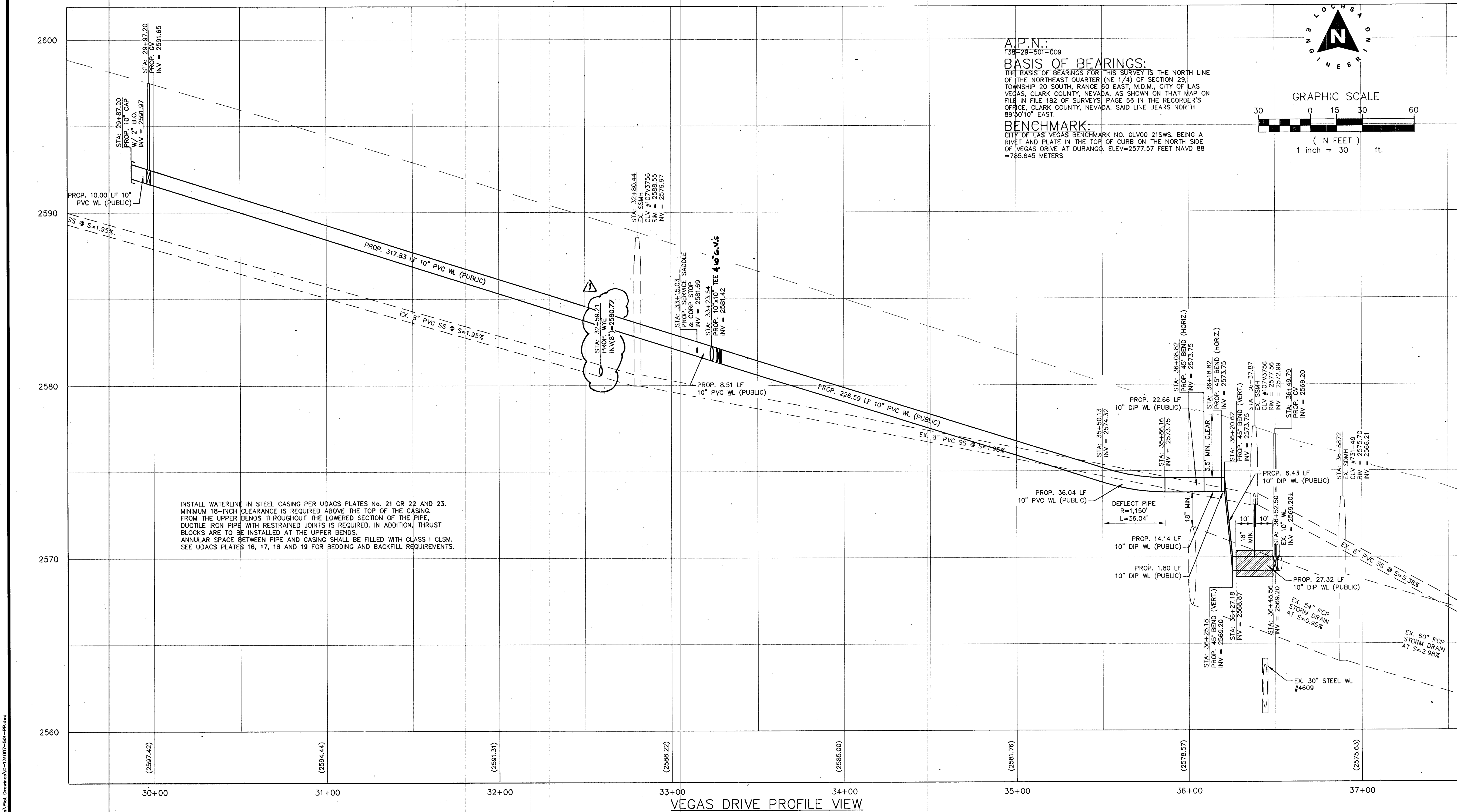
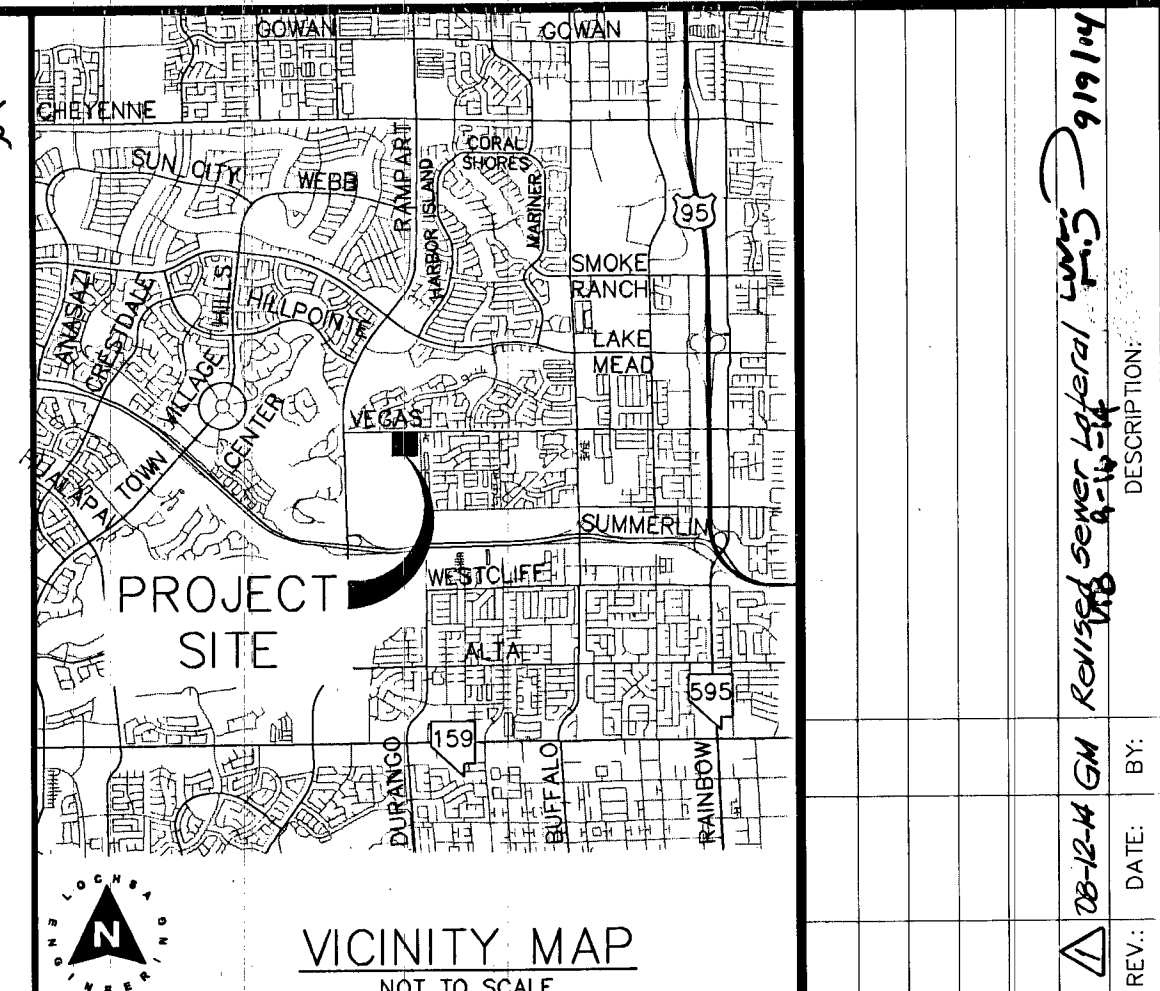
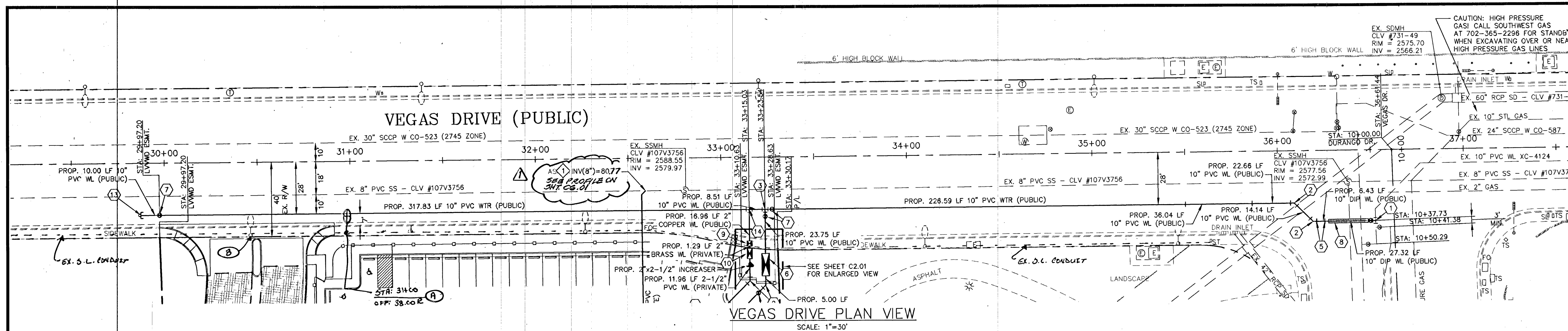
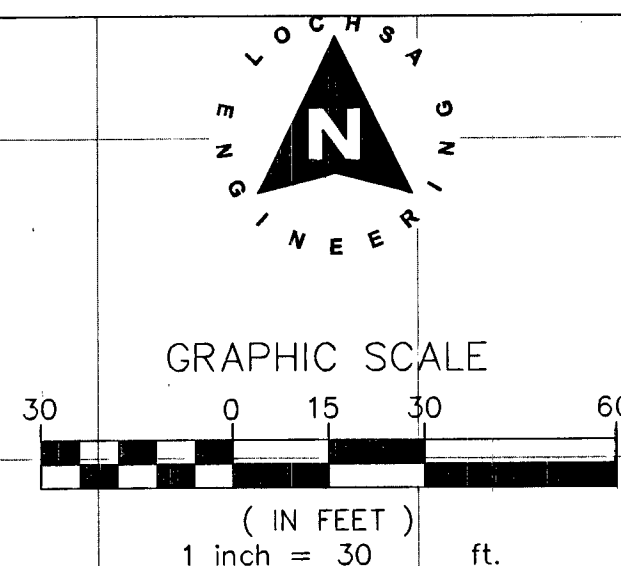




A.P.N.:

BASIS OF BEARINGS:

BENCHMARK



INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES No. 21 OR 22 AND 23. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM. SEE UDACS PLATES 16, 17, 18 AND 19 FOR BEDDING AND BACKFILL REQUIREMENTS.

WATER CONSTRUCTION

NOTES:

1. ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" LATEST EDITION.
2. ALL NOTES USED IN THIS SHEET.
3. ALL WATER LINES 4" OR GREATER TO BE CL. 150, C900 PVC.
4. ALL WATER LINES SMALLER THAN 4" TO BE SCH. 40 PIPE.
5. ALL WATER LINES TO BE INSTALLED AT REMOTE FIRE DEPT. CONNECTIONS TO BE CL. 200, C900 PVC.
6. THRUST BLOCKS TO BE CONSTRUCTED PER UDACS PLATE NO. 30. ANCHOR BLOCKS TO BE LOCATED AT ALL ANGLE FITTINGS (BENDS), CROSSES, TEE'S, PLUGS, CAPS, AND FIRE HYDRANTS.
7. ANCHOR BLOCKS TO BE CONSTRUCTED, PER UDACS PLATE NO. 30. ANCHOR BLOCKS TO BE LOCATED AT ALL IN-LINE CONNECTIONS.
8. 1. INSTALL 10"x10" TAPPING SLEEVE & 10" TAPPING VALVE PER UDACS 2.2-4.1 (A) PLATES NO. 34 & 39.
9. 2. 15" W/ST. 10" W/ST. THRUST BLOCK (SAME SIZE AS PIPE PER UDACS PLATE NO. 31).
10. 3. INSTALL TEE (SAME SIZE AS PIPES), PER UDACS PLATE NO. 31.
11. 4. 15" W/ST. 10" W/ST. FIRE HYDRANT W/GATE VALVE PER UDACS PLATE NO. 40.
12. 5. 15" W/ST. VERTICAL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
13. 6. INSTALL 10" RPDA PER UDACS PLATE NO. 59.
14. 7. INSTALL GATE VALVE (SAME SIZE AS PIPE), PER UDACS PLATE NO. 30 AND 39.
15. 8. 10" W/ST. 10" W/ST. STEEL CASING PER UDACS PLATES NO. 21 OR 22 AND 23. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING AND UPPER BENDS THROUGHOUT.
16. 9. 10" W/ST. 10" W/ST. IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH 1:4 CEMENT GROUT. SEE UDACS PLATES 16, 17, 18 AND 19, FOR BEDDING AND BACKFILL REQUIREMENTS.
17. 10. INSTALL 2" WATER SERVICE & METER PER UDACS PLATE NO. 30.
18. 11. INSTALL 2" RPDA PER UDACS PLATE NO. 8.
19. 12. INSTALL REDUCER (SAME SIZE AS PIPES) W/ THRUST BLOCK PER UDACS PLATE NO. 30.
20. 13. 10" W/ST. 10" W/ST. CAP W/ST. PASS IS CLSM. SEE UDACS PLANS FOR CONTINUATION.
21. 14. INSTALL 10" 10" CAP AND 2" BLOW OFF. PER PLATE 36
22. 15. UDACS PLATE NO. 4.
23. 16. 10" W/ST. 10" W/ST. THRUST BLOCK (SAME SIZE AS PIPE PER UDACS PLATE NO. 31).
24. 17. INSTALL FIRE DEPARTMENT CONNECTION
25. 18. 2"x2'-1/2" INCREASER

SEWER CONSTRUCTION

NOTES:

- NOT ALL NOTES USED ON THIS SHEET -

ALL GRAVITY SANITARY SEWER LINES TO BE SDR-35 PVC.

1. INSTALL LATERAL CONNECTION PER DCSWCS DWG. No. SD-22.

2. INSTALL CLEAN OUT TRAFFIC RATED BOX.

3. STUB & CAP SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.

4. STUB & CAP SANITARY SEWER SERVICE FOR FUTURE USE.

5. INSTALL WYE.

APPROVED FOR CONSTRUCTION

Washado
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 01/04/14 PROJECT No. 121844
LVVWD APPROVED FIRE FLOW = 1625 GPM AT 20 PSI RESIDUAL

(A) INSTALL RELOCATED STREETLIGHT STANDARD ON STREETLIGHT FOUNDATION PER C.A.U.S.D 320 & 321. INTERCEPT EX. CONDUIT AND REPAIR CONDUITS.

(B) RELOCATE EX. STREETLIGHT. REMOVE FOUNDATION AND CONNECT EX. STREETLIGHT REPAIR CONDUITS.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. IF ANY UTILITY EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

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