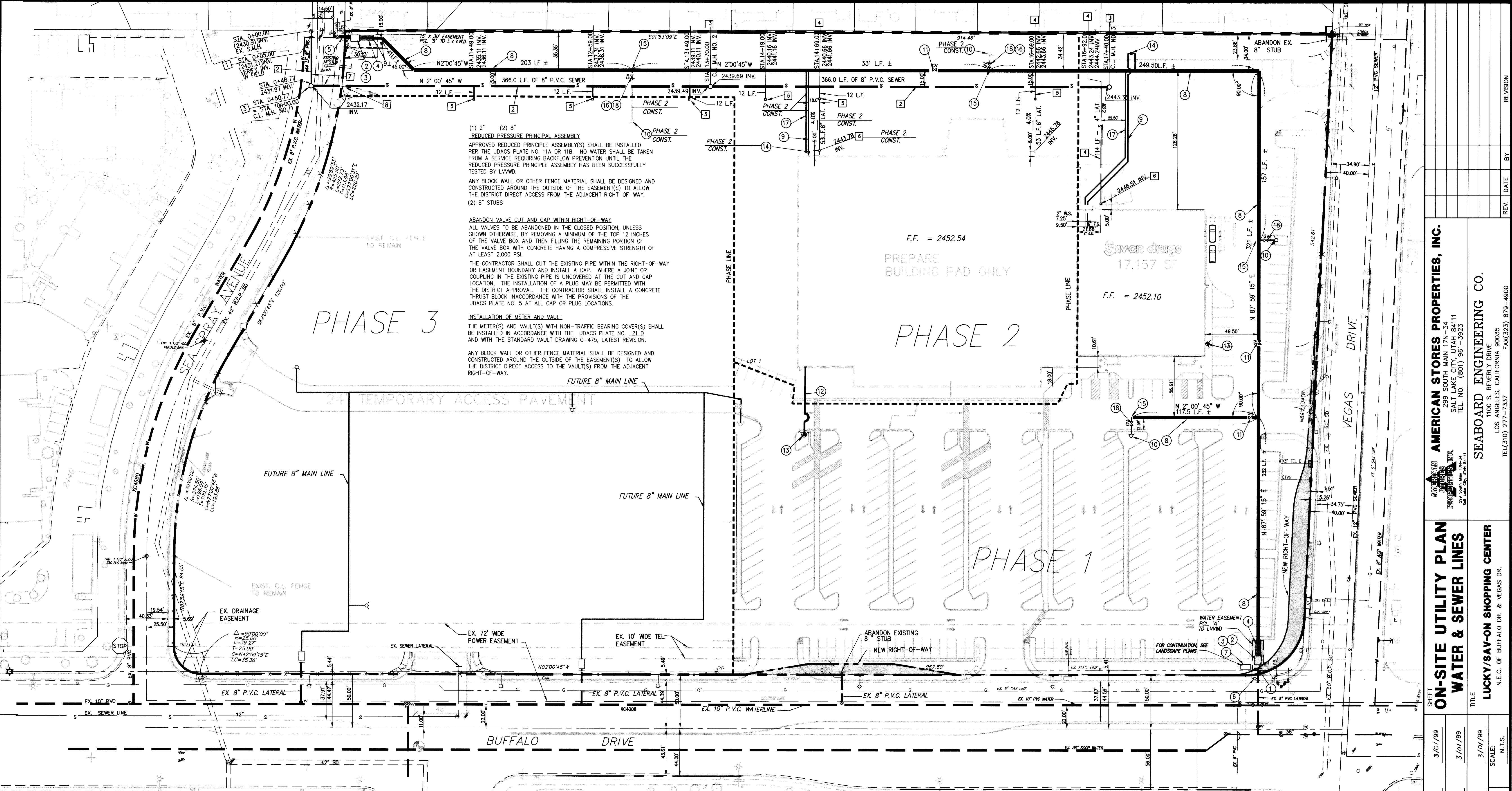




(1) 2" (2) 8" REDUCED PRESSURE PRINCIPLE ASSEMBLY APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A OR 11B. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

(2) 8" STUBS

ABANDON VALVE CUT AND CAP WITHIN RIGHT-OF-WAY ALL VALVES TO BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP 12 INCHES OF THE VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 PSI.

THE CONTRACTOR SHALL CUT THE EXISTING PIPE WITHIN THE RIGHT-OF-WAY OR EASEMENT BOUNDARY AND INSTALL A CAP, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH THE DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS.

INSTALLATION OF METER AND VAULT THE METER(S) AND VAULT(S) WITH NON-TRAFFIC BEARING COVER(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 21-D AND WITH THE STANDARD VAULT DRAWING C-475, LATEST REVISION.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

- CONSTRUCTION NOTES:**
- 1. PUBLIC SYSTEM BEING MAINTAINED BY L.V.W.M.D.
 - 2. REMOVE EXISTING PLUG AND JOIN EXISTING 8" WATER LINE.
 - 3. CONSTRUCT COMBINATION FIRE AND DOMESTIC SERVICE METER, 6" X 3" FMCT, HERSEY MODEL OR APP. EQ. WITHOUT BY-PASS AND WITHOUT DOWA PER UDS PLATE NO. 210.
 - 4. CONSTRUCT UNDERGROUND VAULT PER LAS VEGAS WATER VALLEY DISTRICT STD. C-475.
 - 5. CONSTRUCT 8" RPPA (REDUCED PRESSURE PRINCIPLE ASSEMBLY) PER UDS PLATE NO. 11B.
 - 6. LOCATE STUB IN FIELD (APPROX. STA. 0+02.00), REMOVE PLUG AND CONNECT TO EXISTING 8" STUB.
 - 7. CONSTRUCT 2" RPPA (REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY), HERSEY MODEL OR APPROV. EQ. PER UDS PLATE NO. 11A.
 - 8. PRIVATE WATER SYSTEM
 - 9. CONSTRUCT 8" P.V.C. WATERLINE CL. 150 DR 18 PER AWWA C900 WITH ELASTOMERIC GASKET PER ASTM F477 WITH D.I. FITTINGS PER AWWA C110 OR C153, CML AND COATED.
 - 10. CONSTRUCT 6" P.V.C. WATERLINE CL. 150 DR 18 PER AWWA C900 WITH ELASTOMERIC GASKET PER ASTM F477 WITH D.I. FITTINGS PER AWWA C110 OR C153, CML AND COATED.
 - 11. CONSTRUCT FIRE HYDRANT PER UNIFORM DESIGN STD. PLATE NO. 7.
 - 12. CONSTRUCT 8" GATE VALVE WITH N.R.S., RESILIENT SEAT AND VALVE BOX PER UNIFORM DESIGN STD. NO. 8.
 - 13. CONSTRUCT 4" D.I.P. WATERLINE CL. 150.
 - 14. CONSTRUCT F.O.C., FIRE DEPT. CONNECTION WITH WAFER CHECK VALVE.
 - 15. CONSTRUCT POST INDICATOR VALVE.
 - 16. CONSTRUCT 8" X 8" X 6" TEE, H X H X F.
 - 17. CONSTRUCT BLIND FLANGE AND THRUST BLOCK.
 - 18. CONSTRUCT 2" COPPER TUBING, TYPE K.
 - 19. CONSTRUCT 6" GATE VALVE WITH N.R.S., RESILIENT SEAT AND VALVE BOX PER UNIFORM DESIGN STD. NO. 8.

- SEWER CONSTRUCTION NOTES**
- 1. REMOVE PLUG AND JOIN EXISTING 8" P.V.C. SEWER WITH MISSION RUBBER CO. FLEX-SEAL COUPLING PER ASTM C-425 AND ASTM C-1173 OR APP. EQ.
 - 2. CONSTRUCT 8" P.V.C. MAIN LINE, A.S.T.M. D-3034, S.D.R. 35 WITH ELASTOMERIC GASKET JOINTS PER ASTM F-477 WITH PIPE BEDDING PER SD-11 AND BACKFILL PER SD-16.
 - 3. CONSTRUCT SEWER MANHOLE PER CITY OF LAS VEGAS STD. DWG. SD-1, SD-2, SD-3B, SD-6 & SD-7 WITH P.V.C. PIPE MANHOLE COUPLING PER SD-9 & STEPS PER SD-5.
 - 4. CONSTRUCT SEWER LATERAL PER CITY STD. SD-17.
 - 5. CONSTRUCT SEWER LATERAL PER CITY STD. SD-12, METHOD "A".
 - 6. CONSTRUCT SEWER CLEANOUT PER SECTION 707.0 AND 719.0 OF THE PLUMBING CODE.
 - 7. CONSTRUCT TRENCH BACKFILL PER USD 503 WITH MIN. PAVT PATCH OF 4.0'.
 - 8. RECONSTRUCT CONCRETE CROSS PER USD 228.

- LEGEND:**
- AC - ASPHALT CONCRETE
 - BW - BACK OF WALK
 - CB - CATCH BASIN
 - CF - CURB FACE
 - C/L - CENTERLINE
 - C.L. - CHAIN LINK FENCE
 - CONC - CONCRETE
 - DEED - DEED
 - ELEC - ELECTRIC
 - EP - EDGE OF PAVEMENT
 - ESMT. - EASEMENT
 - FOUND - FOUND
 - FINISH FLOOR - FINISH FLOOR
 - FL - FLOWLINE
 - INVERT - INVERT
 - LS - LAND SURVEYOR
 - P.B. - PULLBOX
 - P.L. - PROPERTY LINE
 - PLN - PLANTER
 - P.W.M. - PAVEMENT
 - P.V.C. - POLYVINYL CHLORIDE PIPE
 - S.S.M. - STANDARD SURVEY MONUMENT
 - TC - TOP OF CURB
 - TG - TOP OF GRADE
 - WI. - WROUGHT IRON
 - FIRE HYDRANT
 - STREET LIGHT
 - TRAFFIC SIGNAL
 - POWER POLE
 - TELEPHONE POLE
 - WATER METER
 - GAS METER
 - NEWSPAPER STAND
 - WATER VALVE
 - STORM DRAIN MANHOLE
 - ELECTRIC MANHOLE
 - SEWER MANHOLE
 - WATER MANHOLE
 - TELEPHONE MANHOLE
 - GUARD POST
 - PARKING METER
 - PEDESTRIAL SIGNAL/CONTROL DEVICE
 - SIGN POST
 - WATER VAULT
 - CATCH BASIN
 - TREE
 - PROPERTY LINE
 - CENTERLINE
 - LOT LINES
 - WALL
 - CHAIN LINK FENCE
 - OVERHEAD LINE
 - GAS LINE
 - EXISTING SEWER LINE
 - UNDERGROUND STORM DRAIN LINE
 - EXISTING ELEC. CONDUIT
 - EXISTING TELEPHONE LINE
 - EXISTING WATER LINE
 - PROPOSED WATER LINE
 - PROPOSED SEWER LINE
 - PROPOSED GATE VALVE
 - PROPOSED FIRE HYD.
 - PROPOSED WATER SERVICE
 - PROPOSED FIRE DEPT. CONNECTION
 - PROPOSED POST INDICATOR VALVE
 - PROPOSED REDUCED PRESSURE ASSEMBLY

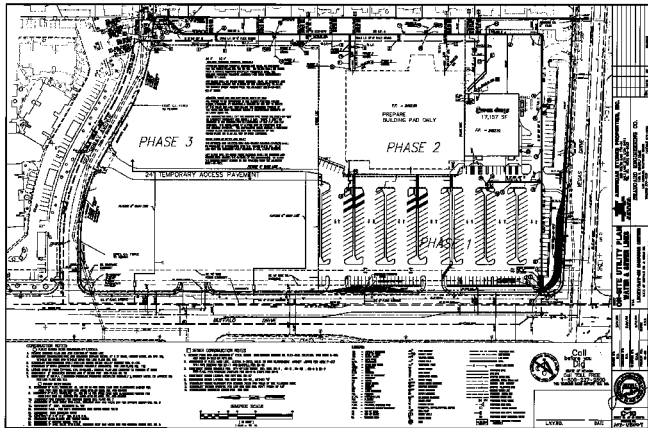
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L.V.V.W.D. DATE

AMERICAN STORES PROPERTIES, INC. 299 SOUTH MAIN 17N-34 SALT LAKE CITY, UTAH 84111 TEL. NO. (801) 961-3923		SEABOARD ENGINEERING CO. 1100 S. BEVERLY DRIVE LOS ANGELES, CALIFORNIA 90035 TEL (310) 277-7337	
ON-SITE UTILITY PLAN WATER & SEWER LINES		LUCKY/SAV-ON SHOPPING CENTER N.E.C. OF BUFFALO DR. & VEGAS DR.	
DRAWN BY: M.D.	DESIGNED BY: M.D.	CHECKED BY: G.K.B.	PROJECT NO.: 98-68
3/01/99	3/01/99	3/01/99	SCALE: N.T.S.
SHEET C-10 SHEET 10 OF 15 SHEETS		DRAWING NO. 107-V3009	



AMERICAN STORM PROTECTORS, INC.
1000 W. 14th St., Suite 200
Tulsa, OK 74103
918-438-1232

DELRAND ENGINEERS CO.
101 N. Main St.
1000 S. Main St.
Tulsa, OK 74103

**ON-SITE UTILITY PLANS
WATER & SEWER LINES**

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