

PROFESSIONAL ENGINEER - STATE OF NEVADA
MARK JONES
 Exp. 06-30-14
 No. 6854
 9/16/15
FOR REVISION 2 ONLY

INSTALLATION OF DOUBLE DETECTOR CHECK - (2) 1"
 THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 11C.
 ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
 ESN.008

REDUCED PRESSURE PRINCIPLE ASSEMBLY - (2) 2"
 APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED THE UDACS PLATE NO. 11A. WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWMD.
 ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.
 EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
 ESN.028

LEGEND

PROPOSED WATER	12" W
PROPOSED GAS	8" GAS
PROPOSED SEWER	12" SS
PROPOSED STORM	18" ST
EXISTING CABLE	(CABLE)
EXISTING PHONE	(PHONE)
EXISTING ELECTRIC	(ELECT)
EXISTING WATER	(12" W)
EXISTING GAS	(8" GAS)
EXISTING SEWER	(12" SS)
EXISTING STORM	(18" ST)
SAW CUT LINE	(12" ST)
PROPOSED FIRE LANE WITH SIGNS & ALL CURBS MARKED WITH RED WEATHER RESISTANT PAINT WITH WHITE LETTERING STATING "FIRELANE-NO PARKING"	

DRY UTILITY COORDINATION NOTES:

- 1) LOCATION OF SITE UTILITIES SHALL BE VERIFIED WITH PROPER UTILITY COMPANY PROVIDING SERVICE.
- 2) SITE UTILITY CONTRACTOR SHALL PROVIDE 2" X 2" X 8" THICK CONCRETE APRON AT ALL SEWER LINE CLEANOUTS OUTSIDE OF BUILDING.
- 3) SITE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE IN FEES REGARDLESS AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
- 4) ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND FROM PROPERTY LINE TO TRANSFORMER LOCATION. ASSOCIATED COST SHALL BE BORNE BY SITE UTILITY CONTRACTOR. CONTRACTOR SHALL VERIFY LOCATION AND PROVIDE 2-4" CONDUITS WITH NYLON PULL CORD.
- 5) UTILITY CONTRACTOR SHALL FURNISH ONE FOUR INCH (4") TELEPHONE CONDUITS FOR EACH PAD AS SHOWN ON PLAN. VERIFY LOCATION OF THE IN-RIT TELEPHONE COMPANY'S SERVICE LINE. PROVIDE NYLON PULL CORD INSIDE CONDUIT.

ON-SITE WATER LINE NOTES:

- 1) FOR GENERAL SITE WORK NOTES, REFER TO SITE PLAN.
- 2) ALL PIPE 3" AND LARGER SHALL BE C900, CLASS 200, P.V.C. WATER PIPE WITH 200 P.S.I. PRESSURE RATING CONFORMING TO ANSI, AWWA, AND UNI-BELL PLASTIC PIPE STANDARD SPECIFICATIONS.
- 3) FITTINGS 3" AND LARGER SHALL BE DUCTILE IRON (MECHANICAL JOINT TYPE OR PUSH-ON JOINT AND EPOXY COATED) CONFORMING TO ANSI AND AWWA STANDARD SPECIFICATIONS.
- 4) PIPE AND FITTINGS LESS THAN 3" TO BE EITHER P.V.C. SCH. 40 W/ SOLVENT WELD JOINTS OR SOFT K-COPPER.
- 5) ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 3'-6" ABOVE TOP OF PIPE.
- 6) THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TWENTY-FOUR INCHES (24").
- 7) THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, TAPPING SLEEVES, AND FIRE HYDRANTS AND SHALL CONFORM TO DETAILS.
- 8) DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING PER THRUST BLOCKING DETAILS.
- 9) ALL SPRINKLER, DOMESTIC AND SANITARY LEADS TO BUILDING SHALL END AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
- 10) ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- 11) ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS AND DETAILS SHOWN HERE IN.
- 12) UTILITY CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- 13) ALL WORK OF THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS AND CLARK COUNTY REGULATIONS.
- 14) ALL FERROUS MATERIALS WHICH ARE BURIED SHALL BE WRAPPED WITH A MINIMUM OF 10mm OF POLYETHYLENE.

FIRE LANE REQUIREMENTS:

FIRE LANE WARNING SIGNS SHALL BE PLACED AT EACH ENTRANCE TO A FIRE LANE. THEREAFTER, A FIRE LANE WARNING SIGN SHALL BE PLACED AT LEAST EVERY 75 LF. THE FIRE LANE WARNING SIGNS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT CODE.

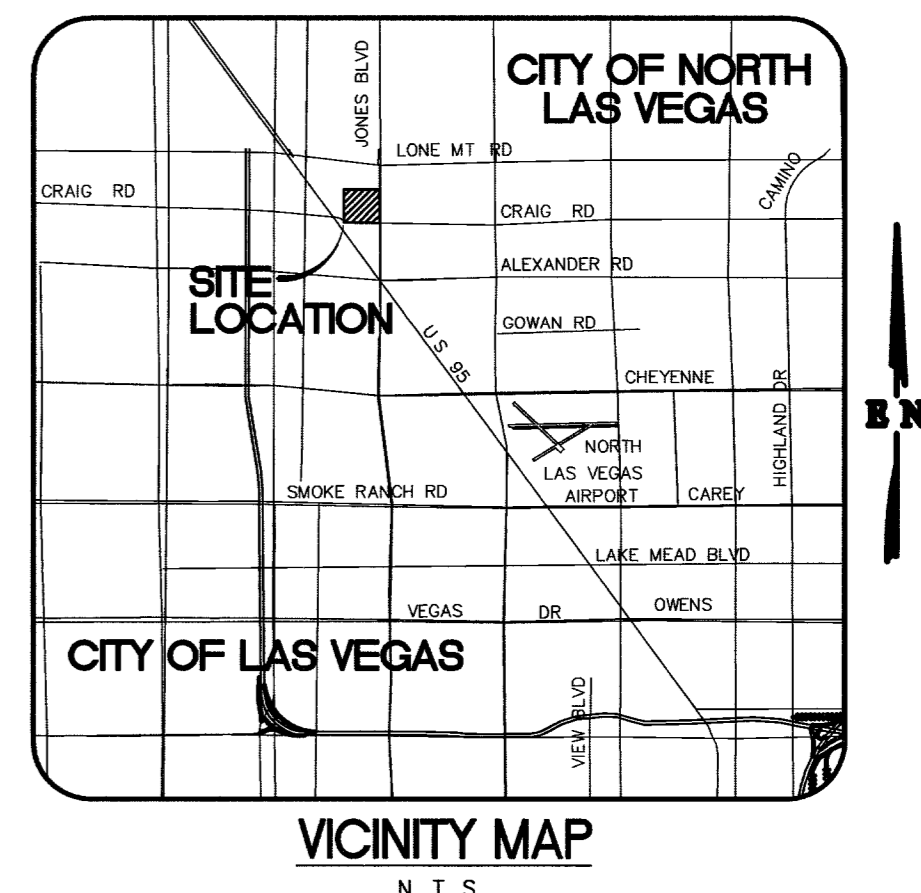
CURB SHALL BE PAINTED RED WITH "NO PARKING FIRE LANE" PAINTED ON THE CURB AT LEAST EVERY 50 LF. THE WORDS ON THE CURB SHALL BE PAINTED IN WHITE BLOCK LETTERS NOT LESS THAN 4 INCHES IN HEIGHT WITH A STROKE OF NOT LESS THAN 3/4 INCH.

UTILITY NOTE:

EXISTING UTILITIES SHOWN ON THIS PLAN REFLECT ONLY THOSE UTILITIES KNOWN, LOCATED OR RESEARCHED AND DOES NOT CONSTITUTE ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR CORRECT LOCATION AND VERIFICATION OF ALL EXISTING UTILITIES ON SITE. IN THE EVENT OF ANY DESIGN DISCREPANCIES THE CONTRACTOR IS TO NOTIFY THE CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

THIS IS A RECORDED CONDOMINIUM SUBDIVISION ALL PROPERTY, THAT IS NOT DIRECTLY UNDER A BUILDING FOOTPRINT, IS A COMMON UTILITY EASEMENT, FOR SEWER, WATER, FIRE AND ELECTRICAL, REGARDLESS OF ANY, AND ALL, "PROPERTY LINES".

THE FIRE APPARATUS ACCESS ROAD WIDTH SHALL NOT BE LESS THAN 20'. TURNING RADIUS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE.



NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT REQUIRED

AN APPROVED NDOT OCCUPANCY PERMIT SHALL BE OBTAINED THROUGH THE DISTRICT PRIOR TO ANY CONSTRUCTION WITHIN THE NDOT RIGHT-OF-WAY. PLANS SHOWING WORK IN THE NDOT RIGHT-OF-WAY MUST SHOW NDOT STATIONING. THE DEVELOPER ASSUMES ALL LIABILITY FOR WORK CONDUCTED UNDER THE DISTRICT OBTAINED PERMIT THROUGH WARRANTY EXPIRATION.
 ESN.023

UTILITY CONSTRUCTION NOTES

ITEM #	DESCRIPTION
1	LVWMD EASEMENT
2	INSTALL 16" x 10" MJ TAPPING SLEEVE W/10" TAPPING VALVE AND VB&C PER UDACS PLATE NO. 22 & 8
3	INSTALL 10" GATE VALVE PER UDACS PLATE #3 & 8 THRUST BLOCKING PER UDACS PLATE #5 (ON-SITE ISOLATION VALVES)
4	INSTALL 10" PVC LINE PER UDACS PLATE #6A-6E
5	INSTALL SADDLE SERVICE W/CORP. STOP PER UDACS PLATE NO. 1D
6	INSTALL 2" BRASS WATER LINE PER UDACS PLATE 1D
7	INSTALL 2" METER FOR SERVICE CONNECTION PER UDACS PLATE NO. 1D
8	STUB AND CAP 5" FROM BUILDING BOUNDARY
9	INSTALL 2" COPPER WATER LINE PER UDACS PLATE NO. 1D
10	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7
11	INSTALL 10" COMPACT BACKFLOW ASSEMBLY PER UDACS PLATE #11C. (DCDA)
12	INSTALL 2" COMPACT BACK FLOW PER UDACS PLATE NO. 11A (RPPA)
13	INSTALL 6" GATE VALVE PER UDACS PLATE #3 THRUST BLOCKING PER UDACS PLATE #5
14	INSTALL 8" PVC LINE PER UDACS PLATE #6A-6E
15	INSTALL 2" PVC WATER LINE PER TRENCHING AND BEDDING PER UDACS PLATE NO. 6A
16	INSTALL 45 DEGREE HORIZONTAL BEND WITH THRUST BLOCKING UDACS PLATE NO. 5
17	INSTALL 10"x10"x6" TEE W/ THRUST BLOCK PER UDACS PLATE NO. 5
18	INSTALL 10"x10"x8" TEE W/ THRUST BLOCK PER UDACS PLATE NO. 5
19	INSTALL 10"x10"x10" TEE W/ THRUST BLOCK PER UDACS PLATE NO. 5
20	INSTALL 90 DEGREE HORIZONTAL BEND WITH THRUST BLOCKING UDACS PLATE NO. 5
21	INSTALL SANITARY SEWER CLEANOUT PER DETAIL SHEET C-6.0.
22	INSTALL 6" SANITARY SEWER LINE WITH TRENCHING AND BEDDING PER UDACS PLATE NO. 6A-6E
23	INSTALL 8" SANITARY SEWER LINE WITH TRENCHING AND BEDDING PER UDACS PLATE NO. 6A-6E
24	INSTALL CROSS WITH THRUST BLOCKING UDACS PLATE NO. 5
25	LATERAL CONNECTION PER DCSWCS SD-17
26	CONSTRUCT 48" DIA SEWER MANHOLE PER DCSWCS DWG NO.-SD-1, TYPE A
27	INSTALL CAP & BLOW OFF PER UDACS PLATE # 4A
28	INSTALL 6" PVC LINE PER UDACS PLATE #6A-6E
29	INSTALL 24"x6" MJ TAPPING SLEEVE W/ 6" TAPPING VALVE PER UDACS PLATE NO. 22

BASIS OF BEARING:
 THE WEST LINE OF THE SECTION 1, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.B. 64M BEARING BEING N00°38'53"W ALSO BEING THE CENTERLINE OF JONES BLVD.

BENCHMARK:
 BENCHMARK ID #1V002NE68 RIVET & PLATE IN TOP OF CURB ON WEST SIDE OF JONES 1/4 MILE NORTH OF CRAIG.
 NAVD ELEVATION=690.9911 (METERS) NAVD 88 DATUM 3.28083333 U.S. SURVEY FEET=1 METER, ELEVATION = 2267.03 FEET

Call before you Dig.

1-702-455-7781
 CLARK COUNTY TRAFFIC OPERATIONS

1-702-226-0611
 US NEWS AREA COMPUTERIZED TRAFFIC SYSTEM

1-702-593-6111
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

1-800-227-2600
 UNDERGROUND SERVICE ALERT (USA)

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVED

BY: *[Signature]* DATE: 8/18/15

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTRY LAWS, FIRE FLOW = 3825 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

1st approval 8/10/15
 2nd approval 8/18/15

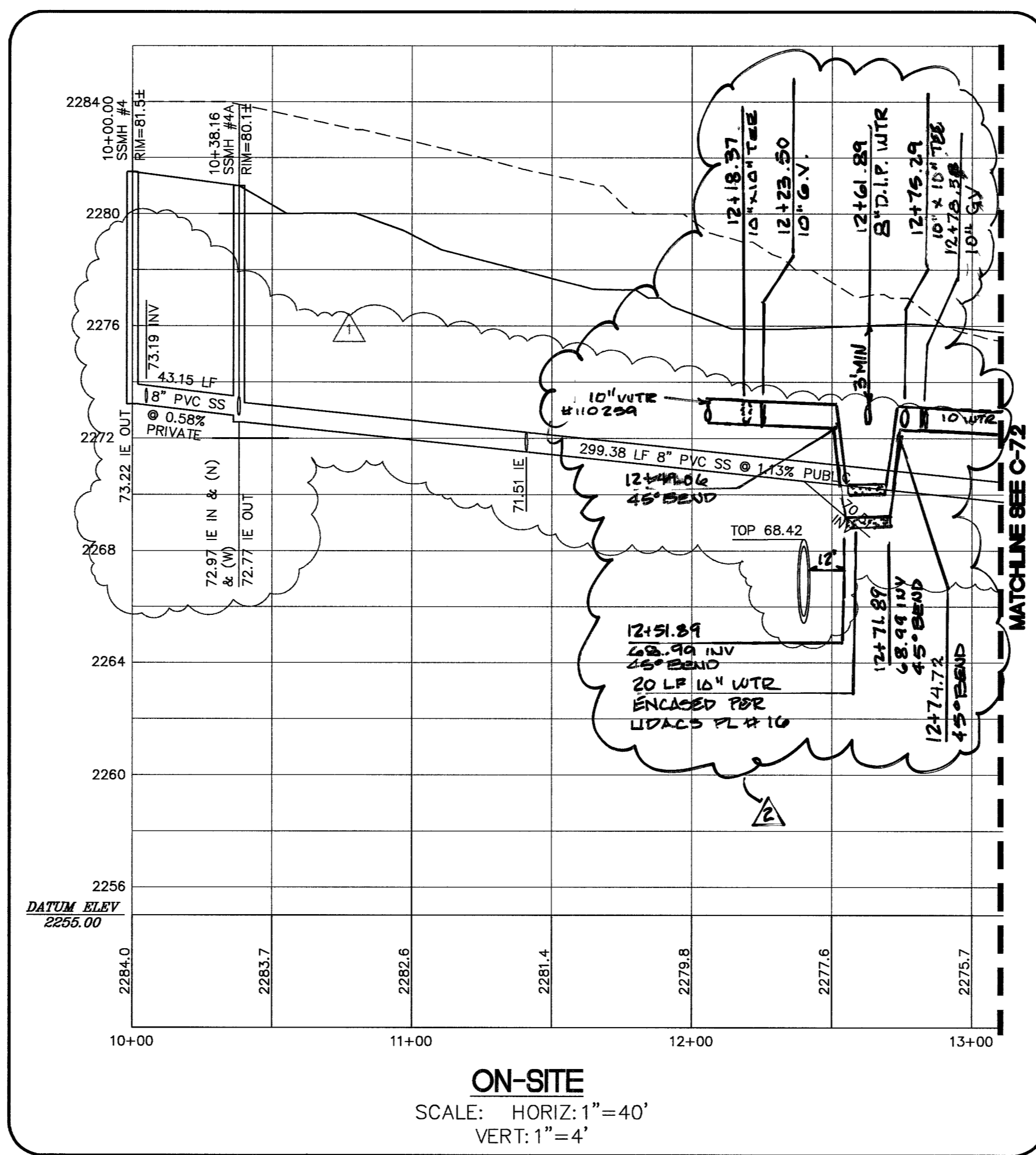
LVWMD PROJECT #110259 DATE: 8/18/15
 CLV DRAWING # 10714871

ABANDON VALVE CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) P.S.I. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL VAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5.
 ESN.033

COORDINATION NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING ENTRANCE LOCATIONS, TOTAL NUMBER, LOCATIONS AND SIZES OF ROOF DOWNSPOUTS.
2. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN
3. ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS AND WAL-MART SITE
4. THE MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER AND SEWER LINES IS TEN (10') FEET AND THE MINIMUM VERTICAL SEPARATION BETWEEN CROSSING WATER AND SEWER LINES IS TWENTY-FOUR (24") INCHES.
5. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISH GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASS AREAS SHALL BE SIX (6") INCHES ABOVE FINISH GRADE.
6. CONTRACTOR SHALL CONNECT ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NEOPRENE CONNECTIONS TO ASSURE WATER TIGHT CONNECTION.
7. CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
8. CONSTRUCTION SHALL COMPLY WITH GOVERNING CODES AND REQUIREMENTS. CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
9. SANITARY SEWER PIPE SHALL BE SDR-35 PVC. CLEANOUTS SHALL BE PLACED EVERY 75' ON CENTER. ALL CLEANOUTS IN PAVEMENT AREAS SHALL BE EQUIPPED WITH TRAFFIC RATED COVERS, CONCRETE COLLAR, AND VALVE BOX.
10. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
11. PRIVATE WATER LINE SHALL BE CLASS 200 PVC (DR 14) MEETING THE LATEST AWWA C900 STANDARD.
12. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ELECTRICAL TRANSFORMER PAD.
13. WATER MAIN AND SEWER MAIN TRENCHING SHALL BE PER LOWE'S DIVISION 2 SITE WORK.



82713 82 83206 R6m 83816

LOWE'S HOME CENTERS, INC.
 P.O. BOX 1011 N. WALKERBOBO, NV 89000

REVISIONS

REV	DATE	BY	DESCRIPTION
1	7/15/15	JL	REVISED SEWER INVERTS TO RESOLVE CONFLICTS
2	8/10/15	JL	REVISED SEWER INVERTS TO RESOLVE CONFLICTS WITH STORM DRAIN
3	8/10/15	JL	10" WATER LINE, ADDED 8" WATER LINE, REVISED PROFILE
4	8/10/15	JL	10" WATER LINE, ADDED 8" WATER LINE, REVISED PROFILE
5	8/10/15	JL	10" WATER LINE, ADDED 8" WATER LINE, REVISED PROFILE

PROFESSIONAL ENGINEER - STATE OF NEVADA
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 No. 016487

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LOWE'S ENGINEERING AND CONSTRUCTION
 150 FARADAY AVE., SUITE 140 CARLSBAD, CA 92008
 760.804.5000 (V) 760.602.1018 (F)

UTILITY PLAN I
 LOWE'S OF NW LAS VEGAS LAS VEGAS, NV.
 PROJECT NO. 04-800 DRAWN BY: [Signature] CHECKED BY: [Signature]

ORIGINAL ISSUE DATE: 02/09/2004
 PERMIT SET DATE: 02/09/2004
 CONSTRUCTION SET DATE: TBD
 DRAWING NUMBER: C-7.1

17 of 28 SHEETS