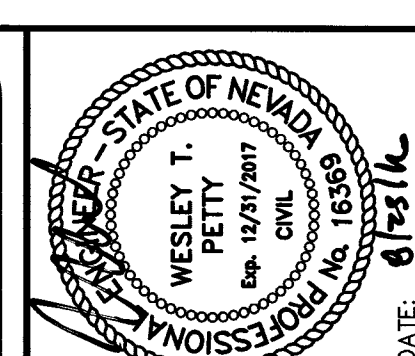
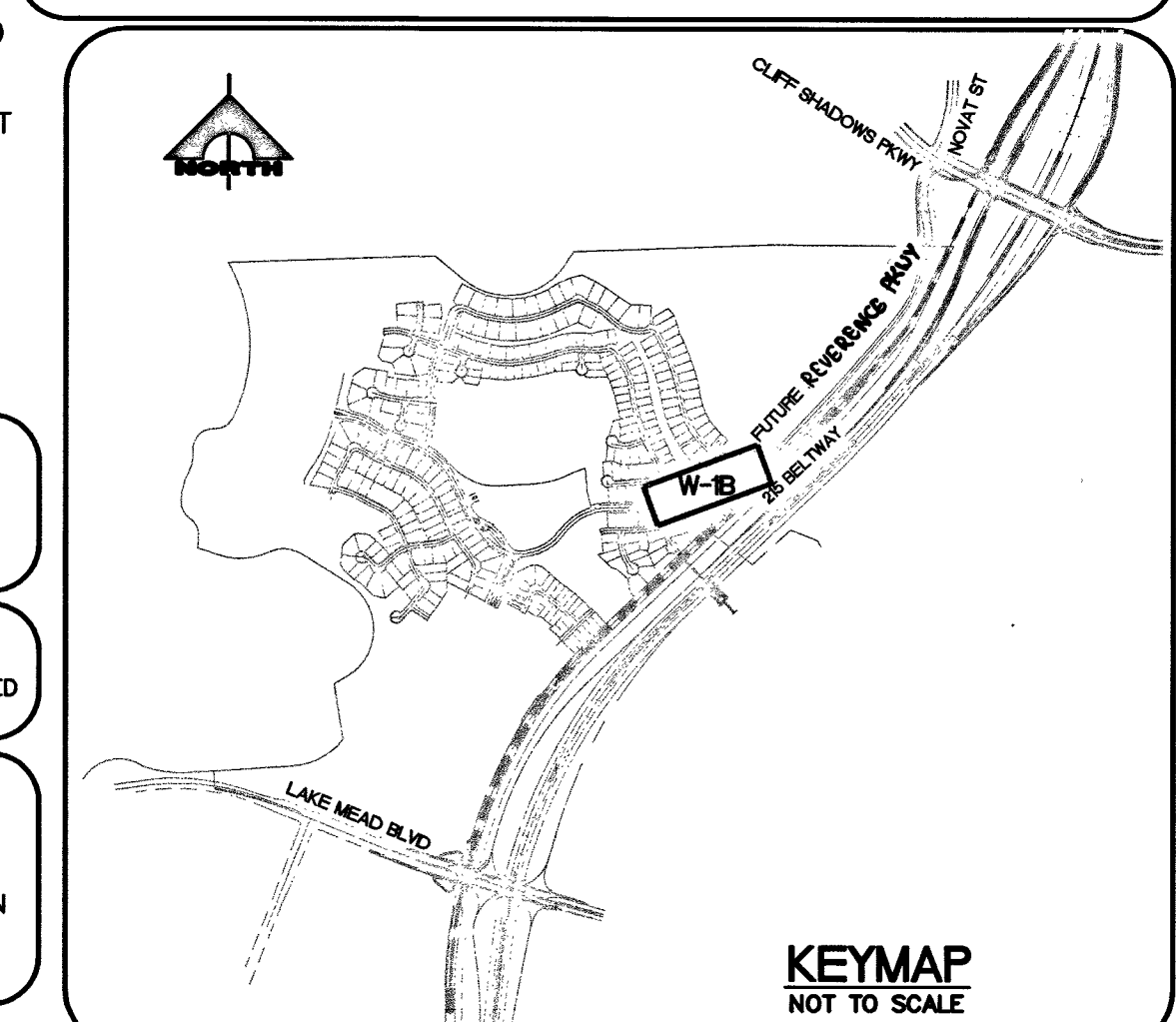
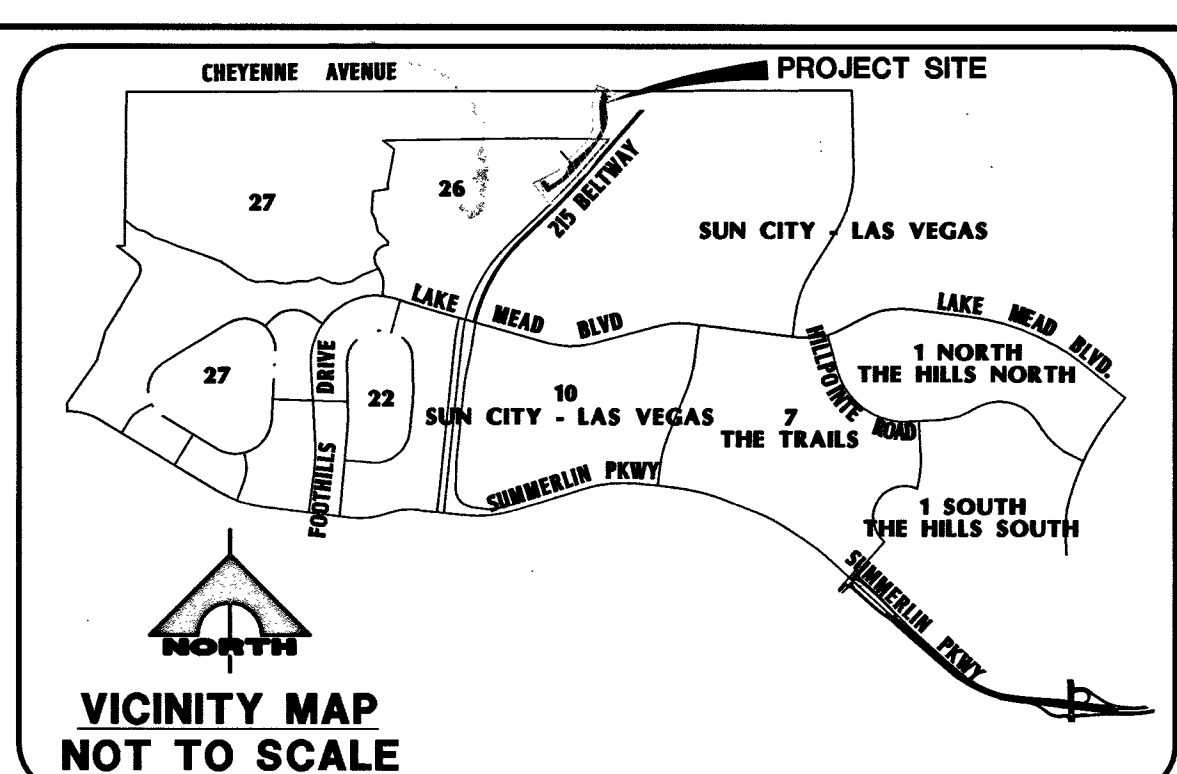
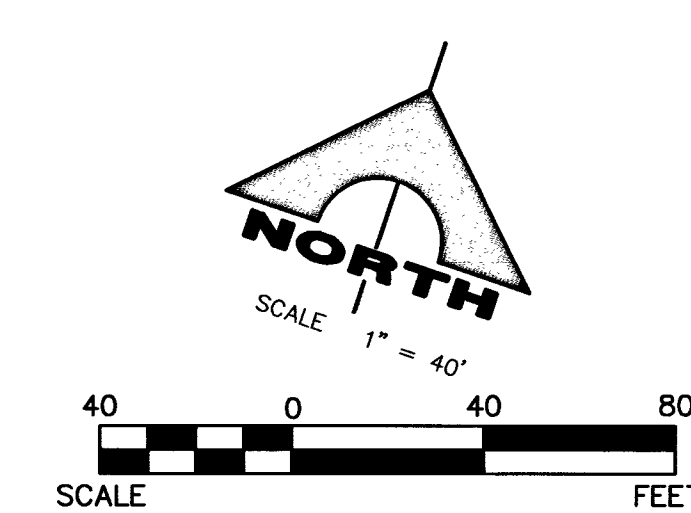
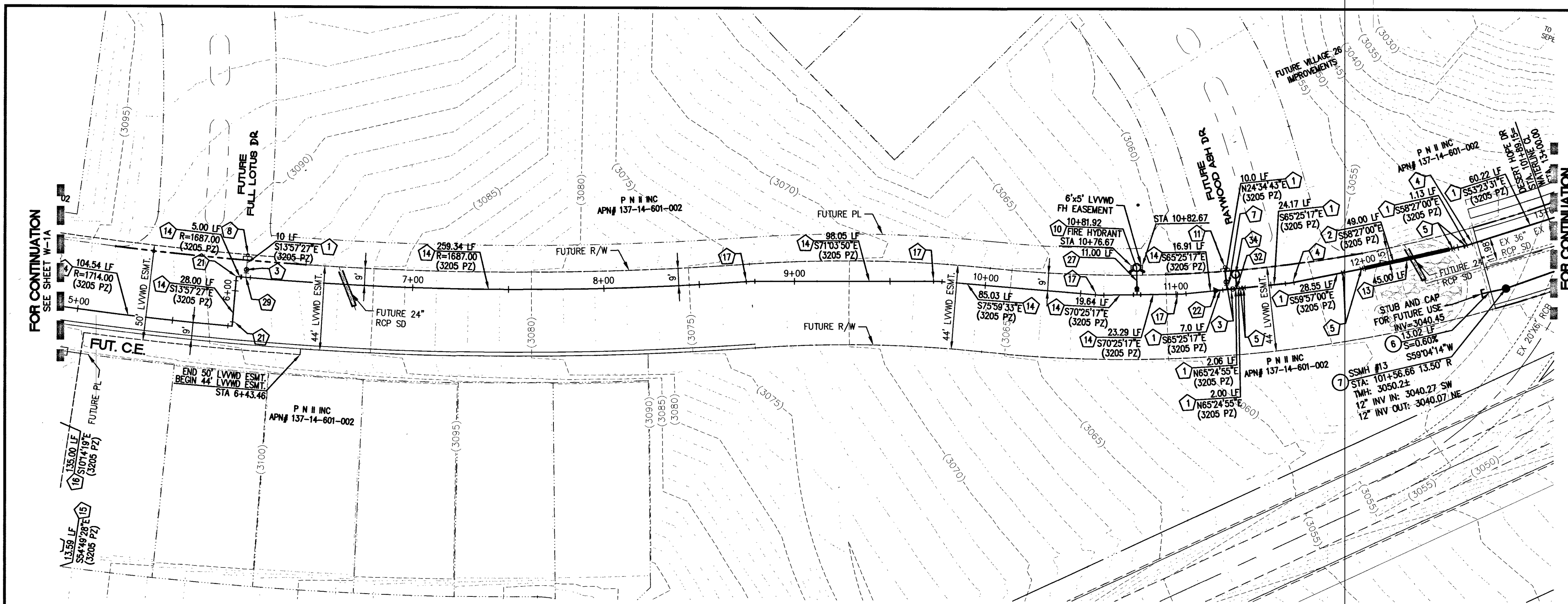




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100	12/12/16	WTP	ISSUED FOR PERMIT

FOR ALL DRY UTILITY CROSSINGS (WATER)

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3" PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

WATERLINE

SCALE: HORIZ. 1"=40'
VERT. 1"=8'

NOTE:

THE FINISHED GRADE OVER THE WATER MAIN PROPOSED WITH THIS PROJECT MUST BE INSTALLED BY SUMMERLIN V26 REFERENCE PHASE 1, LVWD PROJECT #124753, PRIOR TO FINAL ACCEPTANCE OF THIS PROJECT.

NOTE:

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.

NOTE:

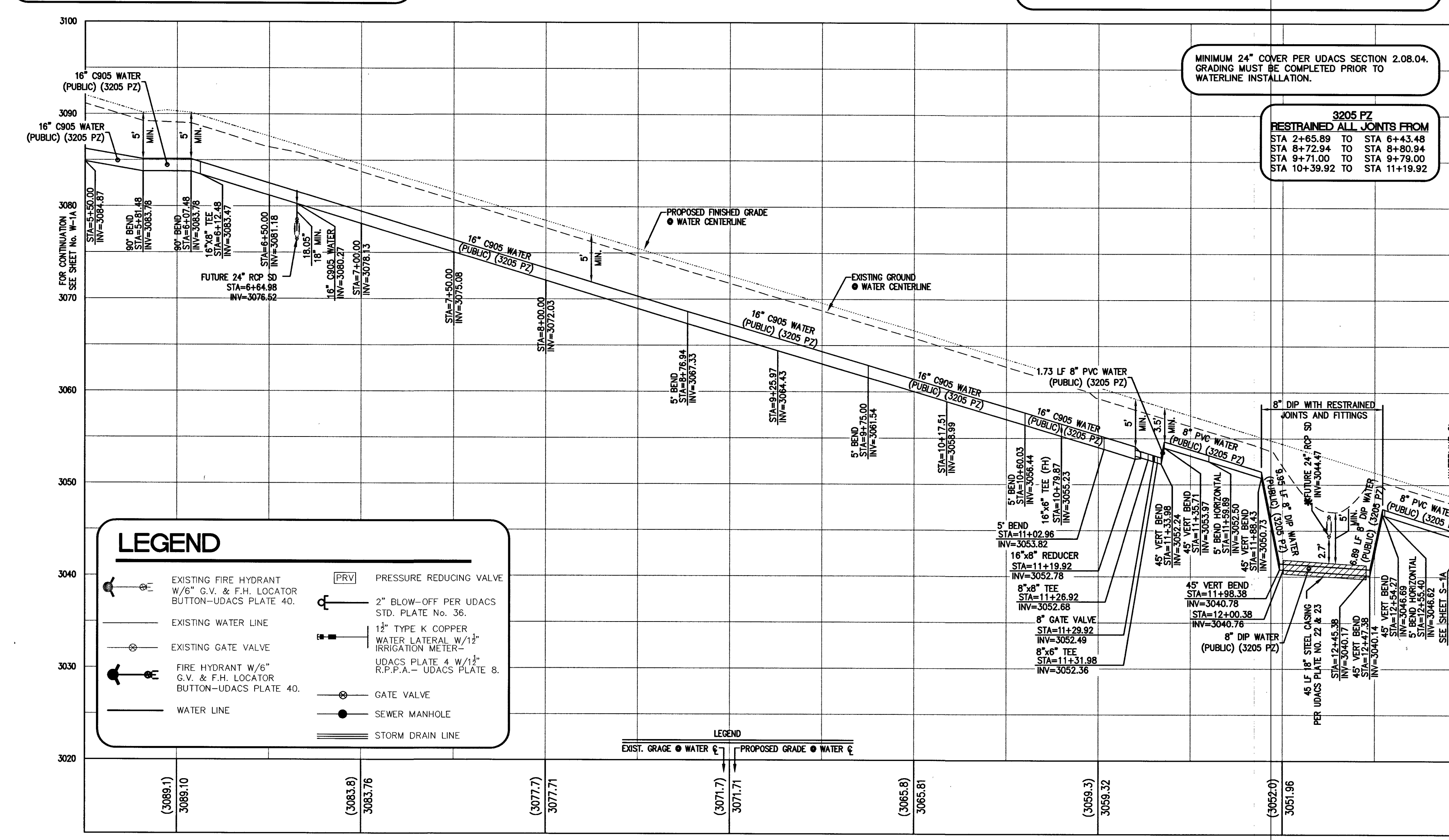
ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE:

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

BASIS OF BEARING

SOUTH 89°39'55" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP THEREOF ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.



SEWER CONSTRUCTION NOTES

KEY	ITEM
1	INSTALL 8" PUBLIC PVC SEWER LINE.
2	INSTALL 12" PUBLIC C900 SEWER LINE.
3	INSTALL 48" SANITARY SEWER MANHOLE PER SD-1A AND SD-1B.
4	CUT EXISTING SEWER AND INSTALL NEW MANHOLE. MATCH EXISTING INVERT.
5	ADJUST TO GRADE
6	INSTALL 12" PUBLIC PVC SEWER LINE.
7	INSTALL 60" SANITARY SEWER MANHOLE PER SD-1A AND SD-1B.

WATER MAIN JOINT DEFLECTION (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150FT, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH FINE SAND OR CONTROLLED LOW STRENGTH MATERIAL (CLSM 50 PSI - 75 PSI). SEE UDACS PLATES 16, 17, 18, AND 19 FOR BEDDING AND BACKFILL REQUIREMENTS.

ESP. 038A REVISED 01/05/15

ESN. 038A REVISED 01/05/15

* 24" RCP SD TO BE INSTALLED WITH SUMMERLIN V26 REFERENCE PHASE 1, LVWD PROJECT #124753.

WATER CONSTRUCTION NOTES

KEY	ITEM
1	INSTALL 8" PVC PUBLIC WATER MAIN
2	INSTALL 8" DIP PUBLIC WATER MAIN
3	INSTALL 8" GATE VALVE. VALVES SHALL NOT BE LOCATED IN STREET VALLEY GUTTERS OR WITHIN THE PROPOSED CURB & GUTTER LOCATIONS. UDACS PLATE 30 & 39
4	INSTALL 8" - 5" BEND UDACS PLATE 31
5	INSTALL 8" - 45° BEND UDACS PLATE 31
6	INSTALL 8" - 90° BEND UDACS PLATE 31
7	INSTALL 8" TEE UDACS PLATE 31
8	8" CAP W/ 2" BLOW-OFF PER (UDACS) PLATE No. 36
9	1 1/2" IRRIGATION SERVICE LAT. W/ 1 1/2" METER AND 1 1/2" R.P.P.A. PER UDACS PLATE 4 & 8
10	INSTALL FIRE HYDRANT ASSEMBLY PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS) PLATE No. 40
11	8" CAP W/ 2" BLOW-OFF PER (UDACS) PLATE No. 36
12	INSTALL IRRIGATION SLEEVES 1-6" AND 2-4" SCH. 40 PVC (SEE DETAIL 25 ON SHEET D-1)
13	INSTALL STEEL CASING PER UDACS PLATE 22 & 23
14	* ALL WATER MAIN IN CASING TO BE DIP
15	INSTALL 16" C905 PUBLIC WATER MAIN
16	INSTALL 16" DIP PUBLIC WATER MAIN
17	INSTALL 16" CLASS 53 DIP PUBLIC WATER MAIN
18	INSTALL 16" - 5" BEND W/ RESTRAINED JOINTS ON EACH END
19	INSTALL 16" - 11.25° BEND
20	INSTALL 16" - 22.5° BEND
21	INSTALL 16" - 45° BEND
22	INSTALL 16" - 90° BEND
23	INSTALL 16" X 8" REDUCER
24	CONSTRUCT CLASS 1 CLSM TRENCH BACKFILL PER UDACS PLATE 16 AND 19
25	INSTALL 16" GATE VALVE. VALVES SHALL NOT BE LOCATED IN STREET VALLEY GUTTERS OR WITHIN THE PROPOSED CURB & GUTTER LOCATIONS. UDACS PLATE 30 & 39
26	INSTALL TYPE "C" TEST STATION WITHOUT ANODE PER DETAIL 1 ON SHEET D-2A
27	INSTALL 4" COMBINATION AIR VALVE PER UDACS PLATE 38
28	INSTALL 6" PVC PUBLIC WATER MAIN
29	INSTALL 8" X 6" REDUCER UDACS PLATE 30
30	INSTALL 8" - 90° BEND UDACS PLATE 31
31	16" CAP W/ 2" BLOW-OFF PER (UDACS) PLATE No. 36
32	INSTALL 8"x8" TEE
33	INSTALL 16"x8" TEE
34	INSTALL 6" MANUAL BLOW-OFF ASSEMBLY PER UDACS PLATE No. 37

BENCHMARK

PROJECT DATUM: SUMMERLIN VILLAGE 26 - REFERENCE PROJECT MODIFIED DATUM
CLARK COUNTY VERTICAL CONTROL POINT: SLV09 1456
SUMMERLIN VILLAGE 26 - REFERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAV88 DATUM: 983.659 METERS (3227.22 FEET)
RIVET & PLATE IN HEAD WALL WEST OF CC215 +/-250' NORTH OF LAKE MEAD.
TO OBTAIN SUMMERLIN VILLAGE 26 - REFERENCE PROJECT MODIFIED DATUM ADD 0.42 FEET TO NAV88 DATUM.

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUTSIDE OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICTS STANDARDS, AND AT THE DEVELOPERS EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

APPROVED FOR CONSTRUCTION

6/1/16
LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

8-30-16
DATE

APPROVED FOR CONSTRUCTION

10/4/16
LAS VEGAS VALLEY WATER DISTRICT
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

DATE

Call before you Dig

Call 811

OR 1-800-227-2600

FAST

Call before you UnderGround

1-702-432-5300

PREMIER AND ARTISANAL SYSTEMS OF TRANSPORTATION

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

H# 18839 CLV DWG# 10744950-AR

GCV

ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

PULTE HOMES

WATER PLAN AND PROFILE

REFERENCE PARKWAY

DRAWING
W-1B
19B OF 26 SHTS

PROJECT NO. 764-204-03

DESIGN: HN
DRAWN: HN
CHECK: WP

PLOT DATE: 08-23-16
PLOT TIME: 17:12:31

PROJECT: 1555 S. RAINBOW BLVD. - ACCESS ROAD (N/A) REFERENCE PARKWAY

AG# 116016 QS:137-43-NW,137-44-NE XC 11195

PROJ# 124656