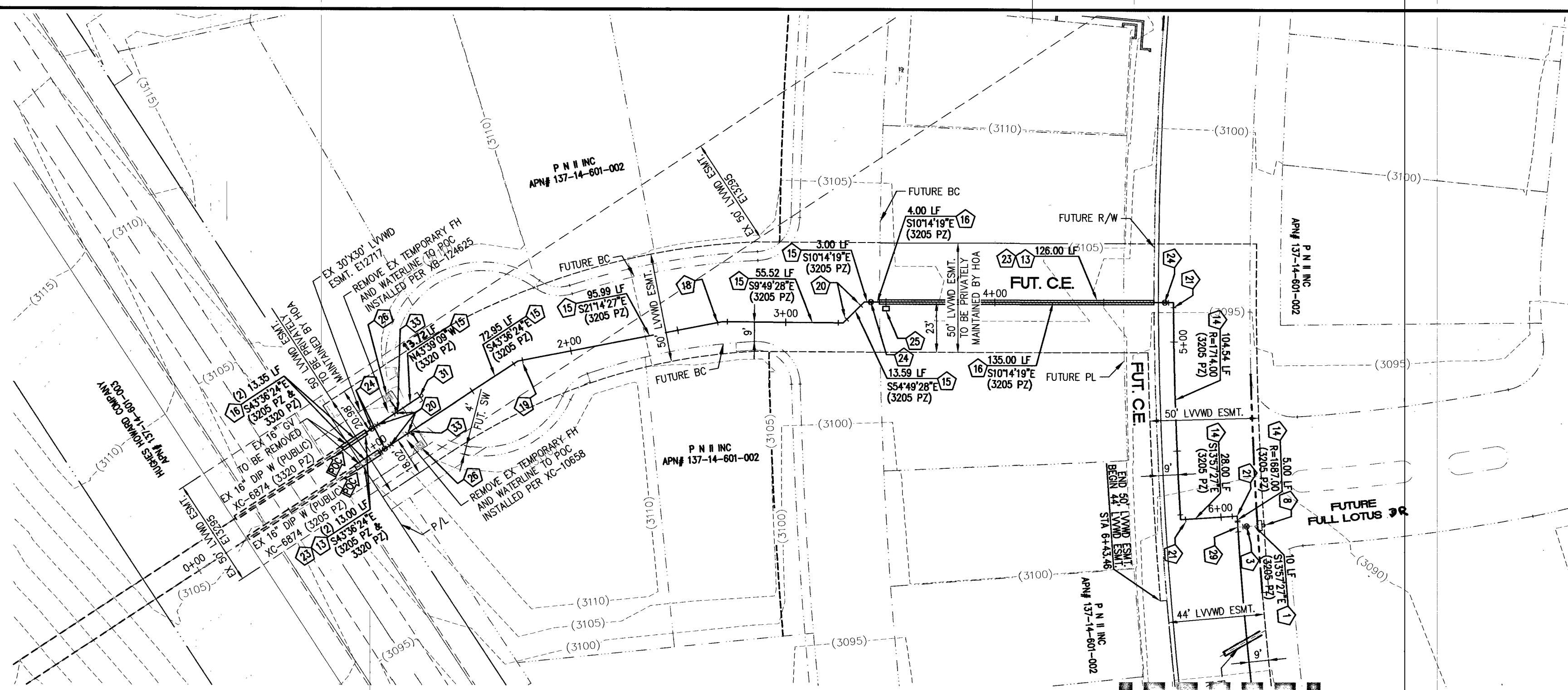
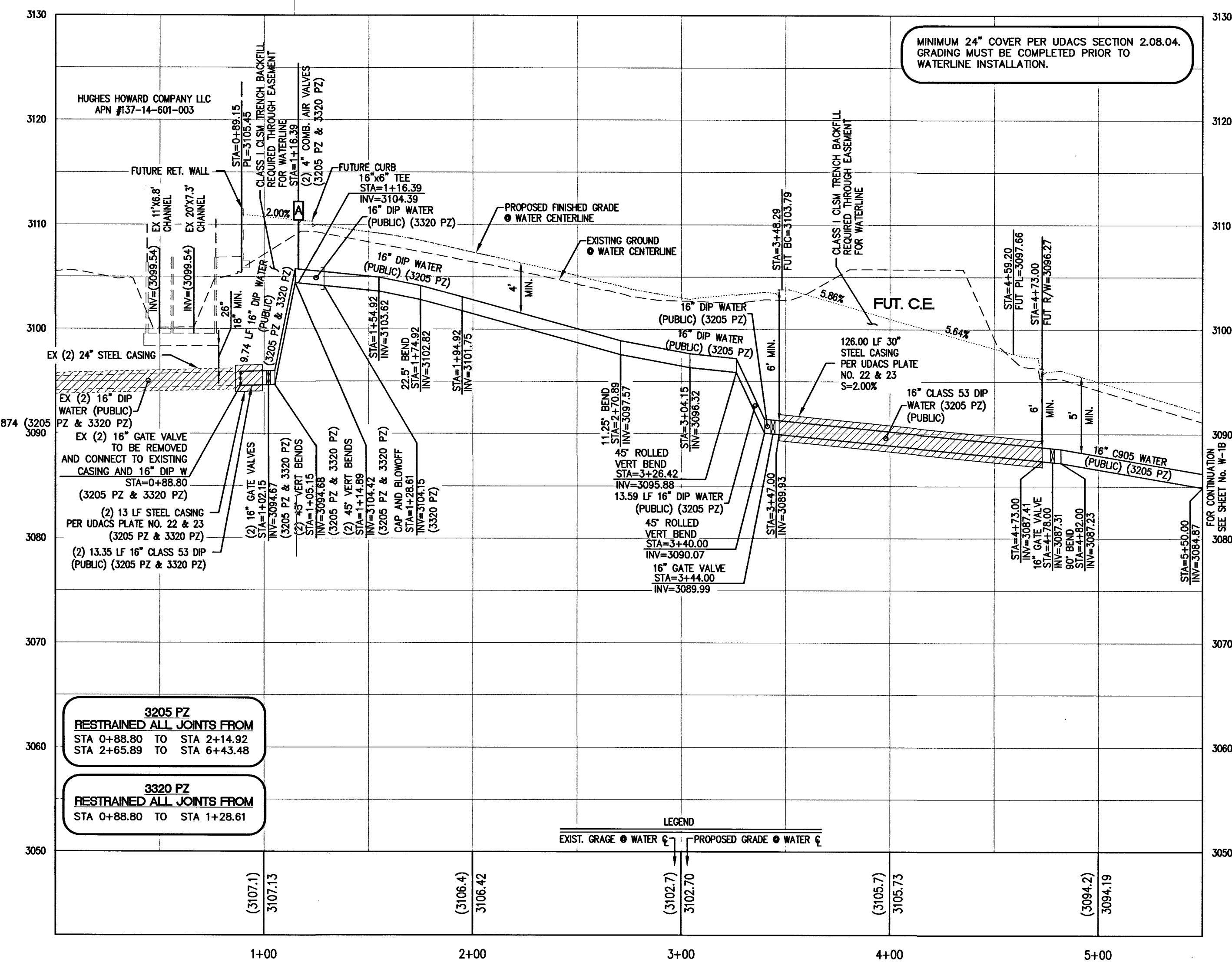




WATERLINE

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



APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
DATE: 8-30-16

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 DISTRICT'S STANDARDS, AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

WATER MAIN JOINT DEFLECTION (DIP 14"-24")
DIP PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE (1/5) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 690' (18" SEC)/765' (20" SEC), PER UDACS 2.07.03.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
ESN. 078 01/05/15

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

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.

BENCHMARK
PROJECT DATUM: SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM
CLARK COUNTY VERTICAL CONTROL POINT: 5LV09 1456
SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAVDS8 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 - REVERENCE PROJECT MODIFIED DATUM ADD 0.42 FEET TO NAVDS8 DATUM.

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRAIL SHUTDOWN.
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH FINE SAND AND 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

LEGEND

EXISTING FIRE HYDRANT W/6" G.V. & F.H. LOCATOR BUTT-ON-UDACS PLATE 40.	PRV PRESSURE REDUCING VALVE
EXISTING WATER LINE	2" BLOW-OFF PER UDACS STD. PLATE No. 36.
EXISTING GATE VALVE	1 1/2" TYPE K COPPER WATER LATERAL W/12" IRRIGATION METER- UDACS PLATE 4 W/13" R.P.P.A. - UDACS PLATE 8.
FIRE HYDRANT W/6" G.V. & F.H. LOCATOR BUTT-ON-UDACS PLATE 40.	GATE VALVE
WATER LINE	SEWER MANHOLE
	STORM DRAIN LINE

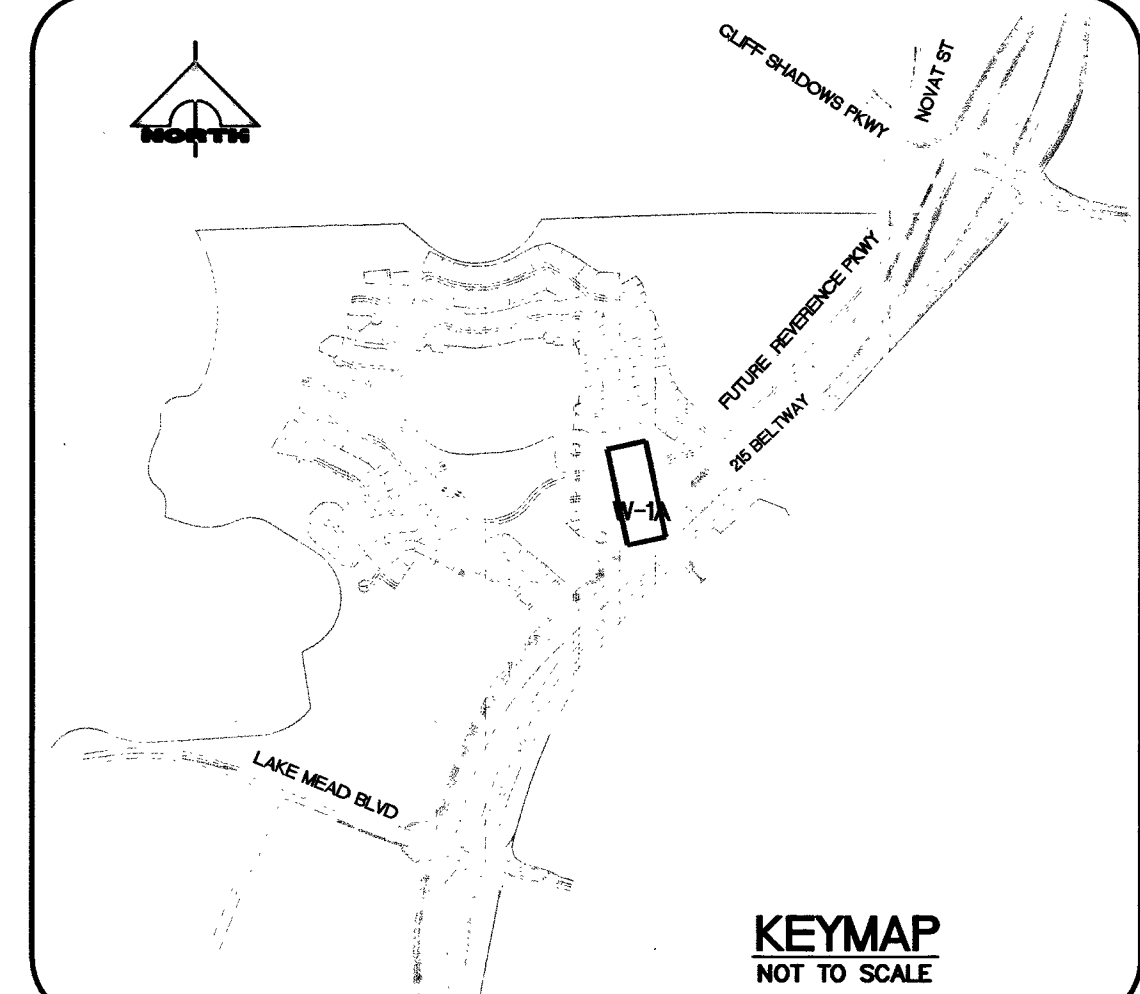
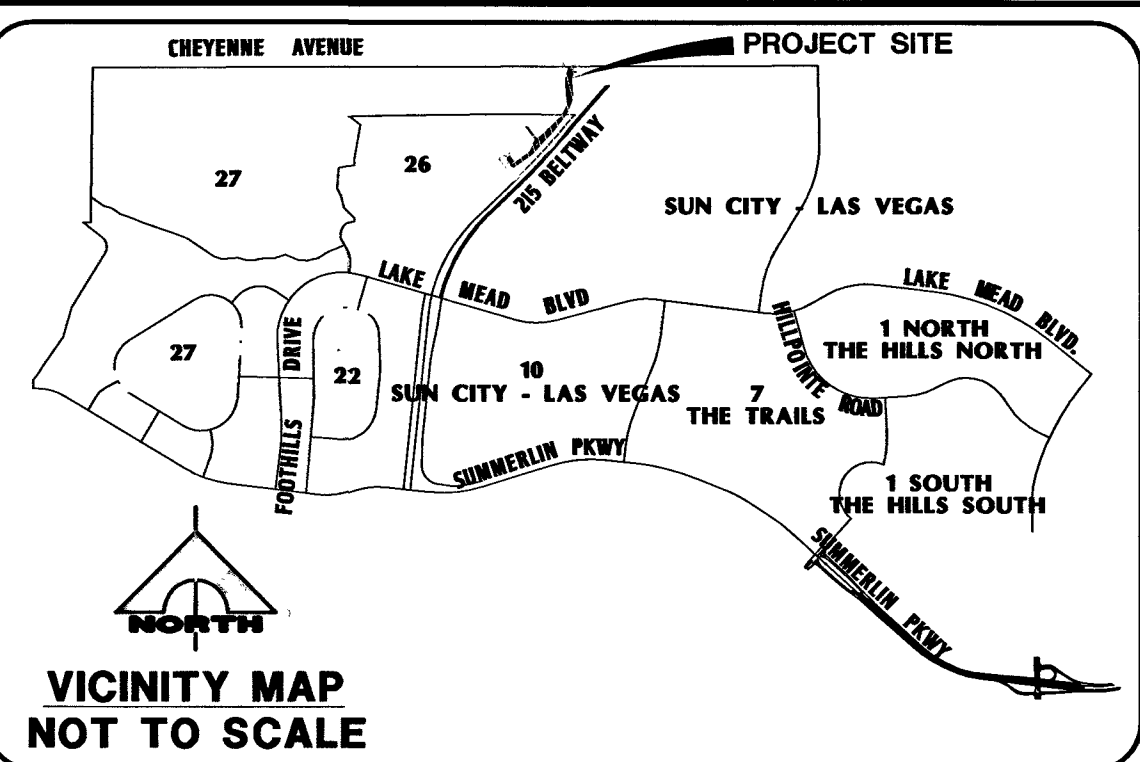
BASIS OF BEARING
SOUTH 89°39'55" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP THEREOF ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

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

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

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT
PROJECT #124656
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
DATE: 10/4/16



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 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" - 5" BEND W/ RESTRAINED JOINTS ON EACH END
18	INSTALL 16" - 11.25" BEND
19	INSTALL 16" - 22.5" BEND
20	INSTALL 16" - 45" BEND
21	INSTALL 16" - 90" BEND
22	INSTALL 16" X 8" REDUCER
23	CONSTRUCT CLASS 1 CLSM TRENCH BACKFILL PER UDACS PLATE 16 AND 19
24	INSTALL 16" GATE VALVE. VALVES SHALL NOT BE LOCATED IN STREET VALLEY GUTTERS OR WITHIN THE PROPOSED CURB & GUTTER LOCATIONS. UDACS PLATE 30 & 39
25	INSTALL TYPE "C" TEST STATION WITHOUT ANODE PER DETAIL 1 ON SHEET D-2A
26	INSTALL 4" COMBINATION AIR VALVE PER UDACS PLATE 38
27	INSTALL 6" PVC PUBLIC WATER MAIN
28	INSTALL 8" X 6" REDUCER UDACS PLATE 30
29	INSTALL 16" X 8" TEE
30	INSTALL 6" - 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"x6" TEE
34	INSTALL 6" MANUAL BLOW-OFF ASSEMBLY PER UDACS PLATE No. 37

H# 18839 CLV DWG# 107Y4950-AR

PROJECT NO. 764-204-013

DESIGN: HN
DRAWN: HN
CHECK: WP

PLOT DATE: 08-24-16
PLOT TIME: 13:52:15

REVISIONS

REV	DATE	DESCRIPTION
1	10/10/16	REVISED STREET NAMES

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

GCV
ENGINEERS & SURVEYORS

DESERT HOPE DRIVE - ACCESS ROAD- (AVA REFERENCE PARKING)
REVERENCE (VILLAGE 26)

PULTE HOMES

WATER PLAN AND PROFILE
REVERENCE PARKWAY

DRAWING
W-1A
19A OF 26 SHEETS

PROJ#124656 AG#116016 Q#137-13-NW,137-14-NW,137-15-NW,137-16-NW,137-17-NW,137-18-NW,137-19-NW,137-20-NW,137-21-NW,137-22-NW,137-23-NW,137-24-NW,137-25-NW,137-26-NW,137-27-NW,137-28-NW,137-29-NW,137-30-NW,137-31-NW,137-32-NW,137-33-NW,137-34-NW,137-35-NW,137-36-NW,137-37-NW,137-38-NW,137-39-NW,137-40-NW,137-41-NW,137-42-NW,137-43-NW,137-44-NW,137-45-NW,137-46-NW,137-47-NW,137-48-NW,137-49-NW,137-50-NW,137-51-NW,137-52-NW,137-53-NW,137-54-NW,137-55-NW,137-56-NW,137-57-NW,137-58-NW,137-59-NW,137-60-NW,137-61-NW,137-62-NW,137-63-NW,137-64-NW,137-65-NW,137-66-NW,137-67-NW,137-68-NW,137-69-NW,137-70-NW,137-71-NW,137-72-NW,137-73-NW,137-74-NW,137-75-NW,137-76-NW,137-77-NW,137-78-NW,137-79-NW,137-80-NW,137-81-NW,137-82-NW,137-83-NW,137-84-NW,137-85-NW,137-86-NW,137-87-NW,137-88-NW,137-89-NW,137-90-NW,137-91-NW,137-92-NW,137-93-NW,137-94-NW,137-95-NW,137-96-NW,137-97-NW,137-98-NW,137-99-NW,137-100-NW