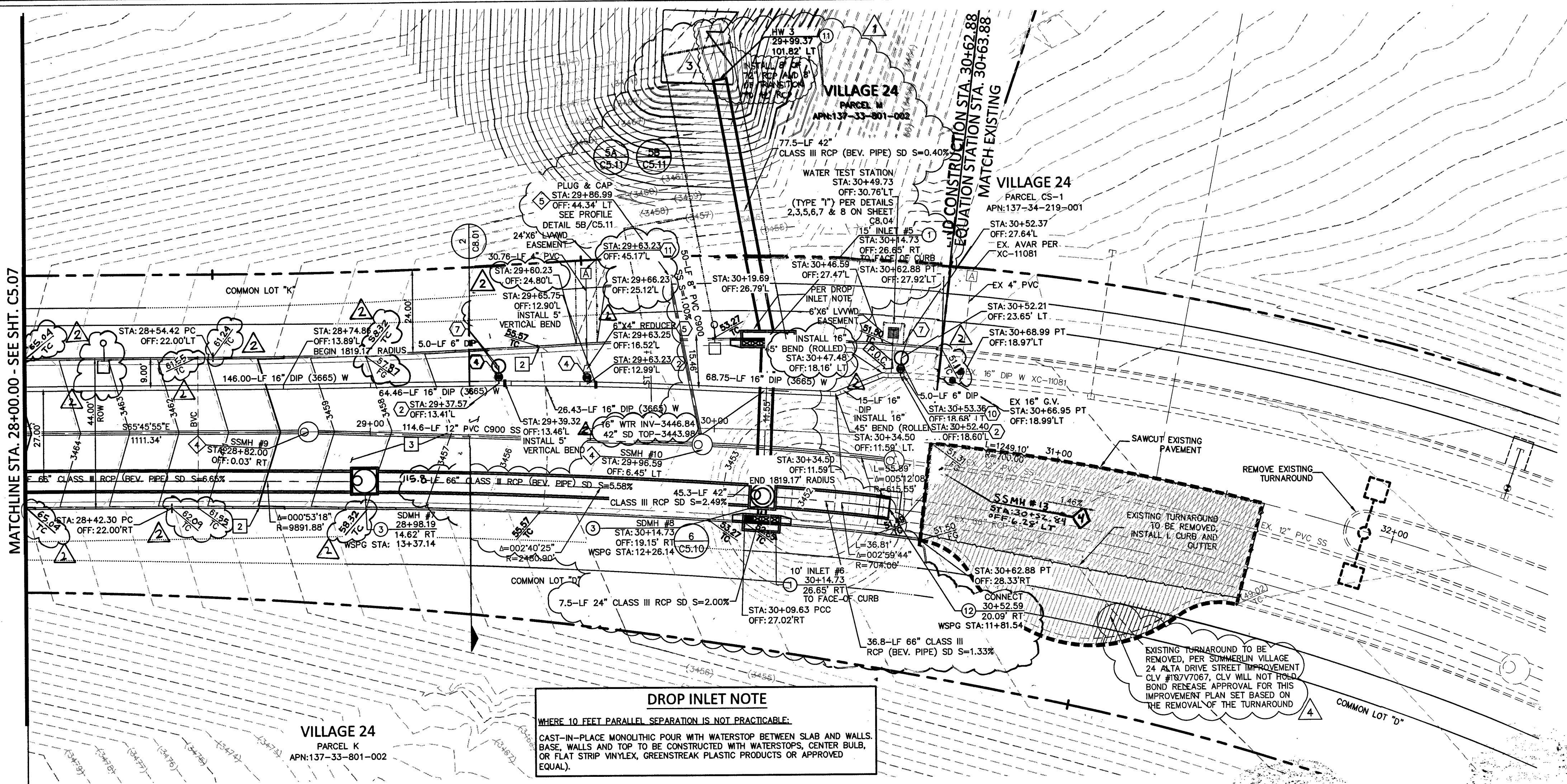




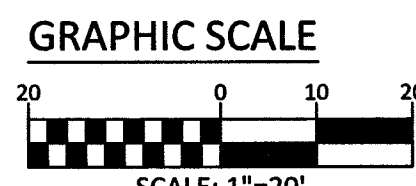
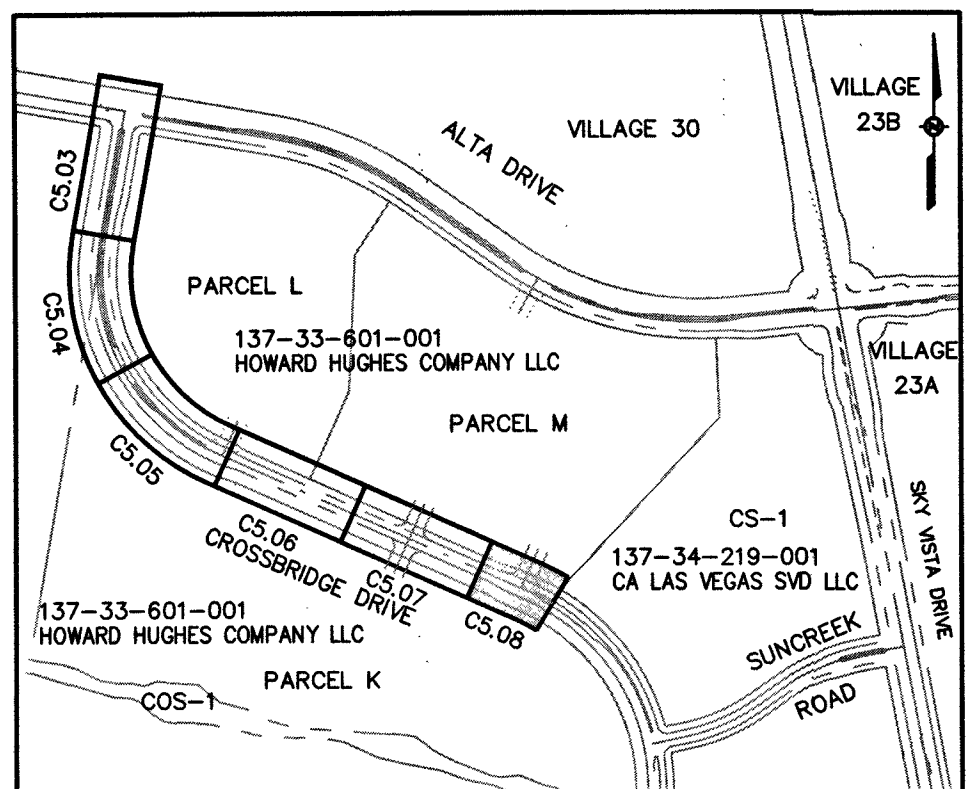
DROP INLET NOTE
 WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE,
 CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS.
 BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOP, CENTER BULL,
 OR FLAT STRIP VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED
 EQUAL.

CROSSBRIDGE DRIVE
 (PUBLIC)
 SCALE: H:1" = 20'
 V:1" = 5'

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM
 PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING
 VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE
 DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE
 ACCEPTANCE OF LVVWD FACILITIES.

RESTRAIN JOINT NOTE:
 ALL FITTINGS AND JOINTS ON 16-INCH MAIN SHALL MECHANICALLY BE
 RESTRAINED. AMARILLO FAST-GRIP GASKET FOR RESTRAINING JOINTS IS A LVVWD
 APPROVED OPTION. THE 16-INCH DIP MAIN SHALL BE BONDED WITH 2-#2 AWG
 BOND CABLES PER JOINT PER DETAIL 4, C8.04. ALL THE 16-INCH FITTINGS AND
 VALVES SHALL BE BONDED PER DETAIL 9, C8.04.

FOR ALL DRY UTILITY CROSSINGS
 - 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.



CONSTRUCTION NOTES:

- ITEM: USDOCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
- INSTALL "A" TYPE ISLAND CURB PER USD DWG NO. 219
- INSTALL "L" TYPE CURB & GUTTER PER USD DWG NO. 216
- INSTALL A.C. PAVEMENT PER TYPICAL STREET SECTION DETAILS
- INSTALL HANDICAP RAMP CURB DEPRESSION (BY OTHERS)
- VERIFY LOCATION AND ELEVATION OF EXISTING IMPROVEMENT. IF DISCREPANCY EXISTS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION

WATER CONSTRUCTION NOTES: 16" WATER MAIN WITH RESTRAINED JOINTS (*)

- ITEM: UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS.
- INSTALL FIRE HYDRANT & ASSEMBLY (TEE & 6" G.V.) PER UDACS PLT. NO. 40 OR 41
- INSTALL TEE PER UDACS PLT. NO. 31 (*)
- INSTALL BEND PER UDACS PLT. NO. 31. (SEE PLAN FOR 4) (*)
- INSTALL GATE VALVE PER UDACS PLT. NO. 30 AND 39 (*)
- INSTALL REDUCER PER UDACS PLT. NO. 30 (*)
- INSTALL CAP W/ 2" BLOW-OFF ASSY PER UDACS PLT. NO. 36 (*)
- INSTALL 6" MANUAL BLOW OFF ASSY PER UDACS PLT. NO. 37
- CLSM CLASS 1 BACKFILL IN THE TRENCH ZONE PER UDACS PLATE NO. 17 & 19
- INSTALL VERT. 45° BEND PER UDACS PLT. NO. 31
- REMOVE CAP & BLOWOFF PER UDACS PLT. NO. 36 AND CONNECT TO EXISTING WATER LINE
- INSTALL 4" COMBINATION AIR VALVE PER UDACS PLT. NO. 38
- INSTALL 1 1/2" METER & RPPA PER UDACS PLT. NO. 4 & 8 & DETAIL SHEET C5.02 (BRASS BETWEEN METER & RPPA)
- INSTALL CROSS PER UDACS PLT. NO. 31 (*)

SEWER CONSTRUCTION NOTES:

- ITEM: DCSWS DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
- INSTALL 48" SEWER MANHOLE WITH SINGLE LID
- INSTALL 60" SEWER MANHOLE WITH SINGLE LID
- INSTALL 48" SEWER MANHOLE W/CORROSION PROTECTION WITH SINGLE LID
- INSTALL 60" SEWER MANHOLE W/CORROSION PROTECTION WITH SINGLE LID
- INSTALL TEMPORARY PLUG AND CAP SEWER STUB
- INSTALL ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS PER DCSWS 4.9.7
- REMOVE EXISTING PLUG AND CONNECT TO EXISTING SEWER LINE

STORM DRAIN CONSTRUCTION NOTES:

- ITEM: UDACS: PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS.
- INSTALL TYPE 2 MODIFIED "CM2" DROP INLET PER USDOCA DWG. NO. 412.1 AND 421
- NOT USED
- INSTALL CAST-IN-PLACE MANHOLE PER DETAIL 7 SHEET C8.02
- INSTALL JUNCTION STRUCTURE
- INSTALL PRECAST MANHOLE TEE W/ 48" RISER
- INSTALL PRECAST MANHOLE TEE W/ 60" RISER
- INSTALL TEMPORARY PLUG AND CAP STORM DRAIN LINE
- NOT USED
- INSTALL WATER TIGHT ELASTOMERIC JOINTS PER UDACS 2.22.02
- NOT USED
- REMOVE EXISTING PLUG AND CONNECT TO EXISTING STORM DRAIN LINE

SEWER CONNECTION NOTE:

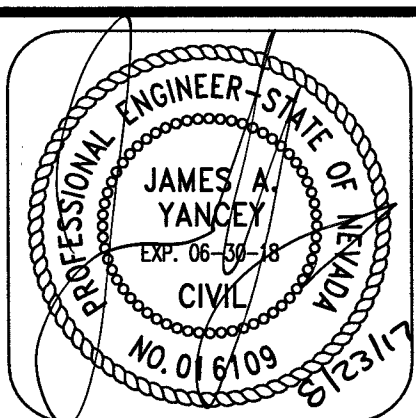
ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

WATER MAIN JOINT DEFLECTION (DIP 14"-24")

DIP PIPE SHALL BE DEFLECTED AT JOINT ONLY. FOR PUSH-ON AND MECHANICAL TYPE DIP JOINTS, MAXIMUM DEFLECTION SHALL BE (1.5) DEGREES PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 690 FEET FOR 18 FEET OF PIPE LENGTHS AND 765 FEET FOR 20 FEET PIPE LENGTHS. PER UDACS 2.07.03. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
 DATE: 8/31/17 PROJECT NO: 124806
 LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

COLLINS ENGINEERS
 3330 S. DURANGO DR., SUITE 404
 LAS VEGAS, NV 89117
 PHONE: (702) 248-8000
 FAX: (702) 248-8070
 www.collinsengr.com



IMPROVEMENT PLANS FOR
THE HOWARD HUGHES COMPANY, LLC
 APN: 137-33-601-001
 UTILITY PLAN & PROFILE
 STA: 28+00.00 TO 30+63.00
 SUMMERLIN VILLAGE 24 - CROSSBRIDGE DRIVE 31
 CITY OF LAS VEGAS

NO.	DATE	DESIGN BY	DESCRIPTION
1	12/27/17	REVISD SS & SD LOCATION APPD BY Jm	
2	02/12/18	REVISED PH LOCATION, ADJUSTED ST LIGHTS	
3	05/08/18	REVISED PH LOCATION, ADJUSTED ST LIGHTS	
4	08/28/18	REVISED PH LOCATION, ADJUSTED ST LIGHTS	

CEI PROJECT: 9106
 DESIGN BY: J. SALDIVAR
 DRAWN BY: J. SALDIVAR
 CHECKED BY: K. YAMADA

DATE: 04/2017
 SCALE: 1" = 20'
 SHEET NUMBER
 C5.08
 10727063
 SHEET 13 OF 26
 H65276