

DS #:

4783-1

APN:

137-14-501-005 & 137-14-601-002

PROJECT:

Summerlin Village 26 Review - Phase 1 - Update

SUBMITTAL:

Supplement

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS			DATE:
INTER-OFFICE MEMORANDUM			February 14, 2017
TO: Land Development Services Department of Building & Safety			FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT: Drainage Study for: Summerlin Village 26 – Reverence – Phase 1 - Update			COPIES TO: GCW Engineers / Surveyors
Cross Streets:	West of I-215 between Lake Mead & Cheyenne		Pulte Homes
File Number:	F:\Depot\DSMemos\DS4783F.doc		Bart Anderson, P.E., DevCo
Parcel Number:	137-14-501-005 & 137-14-601-002		CCRFCD
Zoning Action:	TMP-60968		CCPW
FEMA Flood Zone	YES	NO	X
Proposed Storm Drain	YES	NO	X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	2/24/2016	3/7/2016	Not Approved	\$400.00	434198: \$400
2 nd Submittal	4/4/2016	4/13/2016	Not Approved	\$400.00	438942: \$400
3 rd Submittal	5/16/2016	5/31/2016	Conditional Approval	\$400.00	443900: \$400
Supplement	6/1/2016	6/2/2016	Conditional Approval	N/C	N/C
Revision	1/24/2017	1/24/2017	Conditional Approval	N/C	N/C
4 th Submittal	1/26/2017	2/9/2017	Not Approved	\$100.00	473562: \$100
Supplement	2/13/2017	2/14/2017	See Comments Below	N/C	N/C
TOTAL FEES (LDDRS):				\$1,300.00	----

REMARKS:

4th Submittal & Supplement: Update #1 to lower the F.F. of Lot 392 by 1 foot

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

1. No occupancy permits will be issued prior to or concurrent with the substantial completion of the offsite flood control facilities such as but not limited to a proposed Debris Basin and the associated RCB, the regional RCBs and concrete channels along the Beltway 215, the Modified Village 26 Detention Basin and the concrete channels along the west boundary of the overall Village 26.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS

ays

T/R/S: T20S/R59E/14
AREA K-14

 *** FAX TX REPORT ***

TRANSMISSION OK

JOB NO. 3212
 DESTINATION ADDRESS 7028042299
 PSWD/SUBADDRESS
 DESTINATION ID
 ST. TIME 02/14 08:55
 USAGE T 00' 38
 PGS. 2
 RESULT OK

CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		February 14, 2017
TO: Land Development Services Department of Building & Safety		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT: Drainage Study for: Summerlin Village 26 – Reverence – Phase 1 - Update		COPIES TO: GCW Engineers / Surveyors
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Parcel Number:	137-14-501-005 & 137-14-601-002	CCRFCD
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TOTAL FEES (LDDRS):				\$1,300.00	----

REMARKS:**4th Submittal & Supplement: Update #1 to lower the F.F. of Lot 392 by 1 foot**

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
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1. No occupancy permits will be issued prior to or concurrent with the substantial completion of the offsite flood control facilities such as but not limited to a proposed Debris Basin and the associated

**UPDATE TO THE
TECHNICAL DRAINAGE STUDY
FOR
SUMMERLIN VILLAGE 26 - REVERENCE
PHASE 1**

764-204-013

January 2017



Prepared for:

**Pulte Homes
7255 S. Tenaya Way
Las Vegas, Nevada 89113
Phone: (702) 914-4800
Fax: (702) 914-3100**

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Summerlin Village 26 - Reverence Phase 1 Date: January 2017

Location of Development: a) Descriptive (Cross Streets) North/South: CC 215

East/West: Cheyenne Road

b) Section: 14 Township: 20 Range: 59E

c) APN : 137-14-601-002; 137-14-501-005

Name of Owner: Pulte Homes

Telephone No.: (702) 914-4800 Fax No.: (702) 914-3100 E-Mail Address: Not Available

Address: 7255 S Tenaya Way Las Vegas, NV 89113

Contact Person-Name: James A. Monroe Jr. Telephone No.: (702)804-2000

* E-Mail Address: jmonroe@gcwengineering.com Fax No.: (702)804-2299

Firm: GCW, Inc.

Address: 1555 S Rainbow Blvd. Las Vegas, NV 89146

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivision Map	☐	Clearing and Grading Only
☐	Parcel Map	☒	Planned Unit Development	☐	Other (Please specify below)
☐	Large Parcel Map	☐	Building Permit	☐	

1. Total Owned Land Area: At Site: +/- 300 acres Being Developed/Disturbed: +/- 100 acres

2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? ☐ Yes** ☒ No

3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☒ Yes** ☐ No

4. Proposed type of development (Residential, Commercial, Etc.): Residential

5. Approximate upstream land area which drains to the subject site: +/- 120 acres

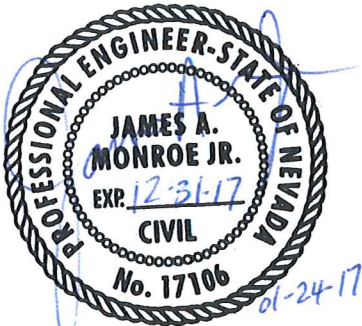
6. Has the site drainage been evaluated in the past? ☒ YES ☐ NO If yes, please identify documentation: _____

GCW Inc.; Technical Drainage Study for Village 26 at Summerlin West Offsite Improvements, GCW Inc.; 2006 Summerlin West Planning Area Flood Control Master Plan Update, Master Drainage Study for Summerlin Village 26 Reverence (November 2015), Summerlin Village 26 Reverence Offsite Improvements (December 2015)

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: _____

CCRCD MPU Facilites GOL3 0128 (Reverence Detention Basin) and the existng wash north of the project site.

8. Briefly describe your proposed schedule for the subject project: ASAP



Engineer's Seal

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

*New Required Field

**Review and concurrence of the Clark County Regional Flood Control District is required.

Revision	Date

Local Entity File No. _____

REFERENCE:

STANDARD FORM 1

**UPDATE TO THE
TECHNICAL DRAINAGE STUDY
FOR
SUMMERLIN VILLAGE 26 - REVERENCE
PHASE 1**

764-204-013

January 2017

Prepared for:

**Pulte Homes
7255 S. Tenaya Way
Las Vegas, Nevada 89113
Phone: (702) 914-4800
Fax: (702) 914-3100**

Prepared by:

**GCW, Inc.
1555 S. Rainbow Blvd
Las Vegas, Nevada 89146
Phone: (702) 804-2000
Fax: (702) 804-2296**

764-204-013

January 24, 2017

Albert Sung, PE
Flood Control Project Engineer
City of Las Vegas Department of Public Works
333 N. Rancho Drive
Las Vegas, NV 89106

**Re: Technical Drainage Study for Summerlin Village 26 - Reverence Phase 1
(DS 4783)**

Dear Mr. Sung:

The purpose of this letter is to serve as an update to the *Technical Drainage Study for Summerlin Village 26 – Reverence Phase 1*. The *Technical Drainage Study for Summerlin Village 26 – Reverence Phase 1* (hereinafter, referred to as the Original TDS) was conditionally approved by the City of Las Vegas (CLV) on June 2, 2016.

The finished floor elevation for Lot 392 has been lowered 1-foot from 3079.75 feet to 3078.75 feet since conditional approval of the original TDS. The City of Las Vegas requires finished floor elevations to set at a minimum of 6-inches above the top of curb or twice the depth of flow. A kneewall solid grouted one (1) course above adjacent grade is provided along Lot 392 adjacent to Terra Firma Lane since the flow depth in Terra Firma Lane is below the top of curb. Therefore, the proposed site will still meet CCRFCD criteria for finished floor elevations.

The methodologies and calculations presented in this report are in compliance with the *CCRFCD Hydrologic Criteria and Drainage Design Manual* (Manual).

In general, the approved drainage patterns remain unchanged and the proposed storm drain is in conformance with the approved Master Drainage Study. Therefore, the proposed revisions will not adversely impact downstream properties or facilities.

If you have any questions or require additional information, please contact us at 804-2000.

Cordially,
GCW, INC.



James A. Monroe Jr., PE LEED AP
Project Manager
Flood Control Division

JAM/vlr
Enclosures

c: Rachael Dennis, GCW
Wes Petty, GCW
Hao Nguyen, GCW

1555 South Rainbow Boulevard
Las Vegas, Nevada 89146



O 702.804.2000
F 702.804.2298



info@gcwengineering.com
gcwengineering.com

CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		June 2, 2016
TO: Land Development Services Department of Building & Safety		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:	
	Summerlin Village 26 – Reverence – Phase 1	
Cross Streets:	West of I-215 between Lake Mead & Cheyenne	Pulte Homes
File Number:	F:\Depot\DSMemos\DS4783D.doc	Bart Anderson, P.E., DevCo
Parcel Number:	137-14-501-005 & 137-14-601-002	CCRFGD
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FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X

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Supplement	6/1/2016	6/2/2016	See Comments Below	N/C	N/C
TOTAL FEES (LDDRS):				\$1,200.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

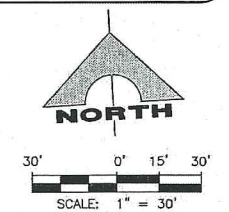
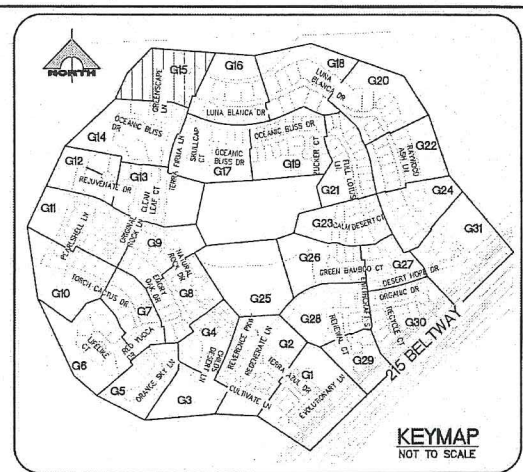
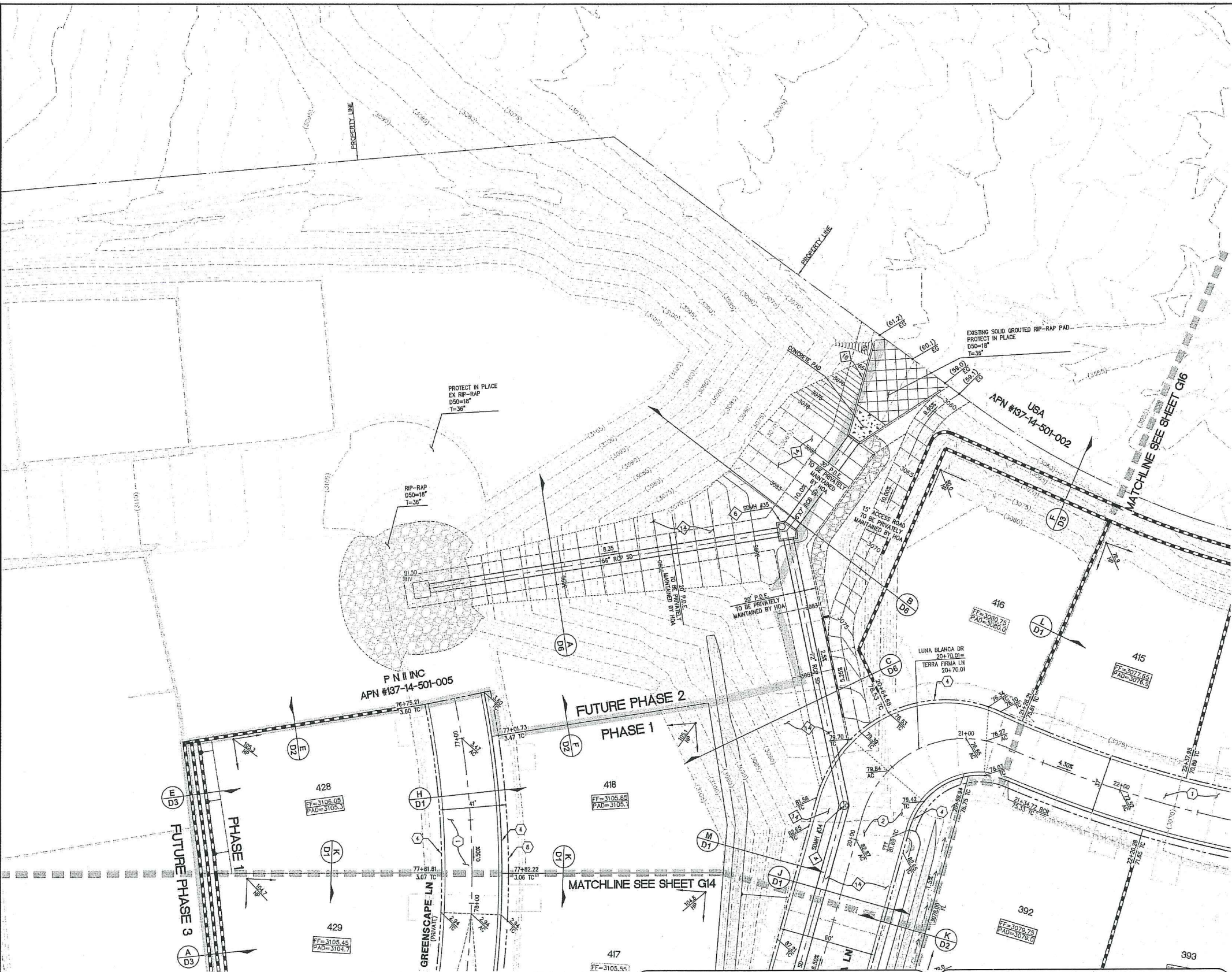
	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.
X	is conditionally approved subject to the following conditions:

1. The subject technical drainage study is conditionally but will not be finally approved prior to the final approval of the following preceding studies: "Summerlin Village 26 – Reverence Offsite Improvements (DS4772)" and "Summerlin Village 26 – Reverence – Desert Hope Drive Access Road (DS4060-3)".
2. No building permits will be issued prior to or concurrent with the substantial completion of the offsite flood control facilities such as but not limited to a proposed Debris Basin and the associated RCB, the regional RCBs and concrete channels along the Beltway 215, the Modified Village 26 Detention Basin and the concrete channels along the west boundary of the overall Village 26.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS
ays

T/R/S: T20S/R59E/14
AREA K-14



- CONSTRUCTION NOTES**
- GRADING**
1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
 2. CONSTRUCT 3" AC OVER 4" TYPE II AB.
 3. CONSTRUCT 4.5" AC OVER 4" TYPE II AB.
 4. CONSTRUCT 24" L TYPE CURB AND GUTTER PER SUMNERLIN STD DWG NO. S-47.
 5. CONSTRUCT "A" TYPE CURB PER SUMNERLIN STD DWG NO. S-50.
 6. CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER USDOCA DWG NO. 235 CASE 1, A-B-B' UNLESS OTHERWISE NOTED ON PLANS.
 7. CONSTRUCT 8" WIDE CROSS GUTTER PER SUMNERLIN STD DWG NO. S-64.
 8. CONSTRUCT CONCRETE SIDEWALK PER SUMNERLIN STD DWG NO. S-72 AND S-48.
- STORM DRAIN**
1. REMOVE PRECAST CONCRETE PLUG AND CONNECT STORM DRAIN.
 2. CONSTRUCT 48" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
 3. CONSTRUCT 60" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
 4. CONSTRUCT 48" TYPE II MANHOLE PER USDOCA DWG NO. 405.2.
 5. CONSTRUCT 60" TYPE II MANHOLE PER USDOCA DWG NO. 405.1.
 6. CONSTRUCT STORM DRAIN MANHOLE PER DETAIL 1 ON SHEET S2.
 7. CONSTRUCT 5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
 8. CONSTRUCT 10" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
 9. CONSTRUCT 12.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
 10. CONSTRUCT 15" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
 11. CONSTRUCT 17.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
 12. CONSTRUCT NOOT TYPE 2 DROP INLET PER "NOD STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) R-4.2.1 ON SHEET D5, "A"-3.5 AND USDOCA DWG NO. 421.
 13. CONSTRUCT SIDEWALK DRAIN PER USDOCA DWG NO. 236.
 14. REMOVE EXISTING RIP-RAP.
 15. INSTALL RIP-RAP, D50-12", THICKNESS=24"
 16. CONSTRUCT HEADWALL PER DETAIL 1 ON SHEET S3.
 17. CONSTRUCT PRECAST CONCRETE PLUG.
 18. CONSTRUCT 7.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.

NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

HÁO A. NGUYEN P.E. 19396 DATE 5/12/15

NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

NOTE

ALL ON-SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "SLV08 1456", BEING A RIVET & PLATE IN HEAD WALL WEST OF CC215 +/-250' NORTH OF LAKE MEAD.

ELEVATION: 3227.22 (FEET)

983.659 (METERS)

CITY OF LAS VEGAS VERTICAL CONTROL - 2008 ADJUSTMENT (UPDATED 5/24/2010) BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASE OF BEARINGS

SOUTH 89°35'55" 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 IN FILE 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-227-2600

FAST

Call before you UnderGround

1-702-432-5300

FREEMAN AND ALLEN SYSTEM OF TRANSPORTATION

AVOID HITTING UNDERGROUND PIPES, UNLESS IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

PROJECT NO. 764-204-013

DESIGN: 764-204-013

DRAWN: 764-204-013

CHECK: 764-204-013

PLOT DATE: 05-12-15

PLOT TIME: 10:21:26

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2289
gongengineering.com

GCV

ENGINEERS & SURVEYORS

PULTE HOMES

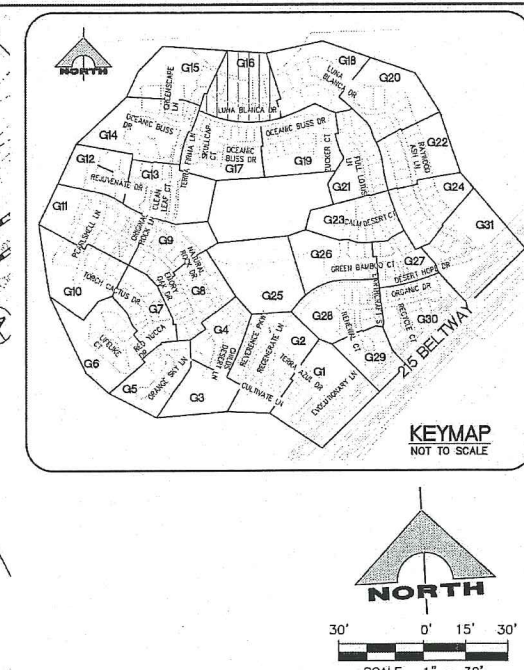
SUMNERLIN VILLAGE 26 - REFERENCE PHASE 1

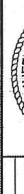
GRADING PLAN 15

DRAWING G15

18 OF 173 SHTS

CLV DWG#



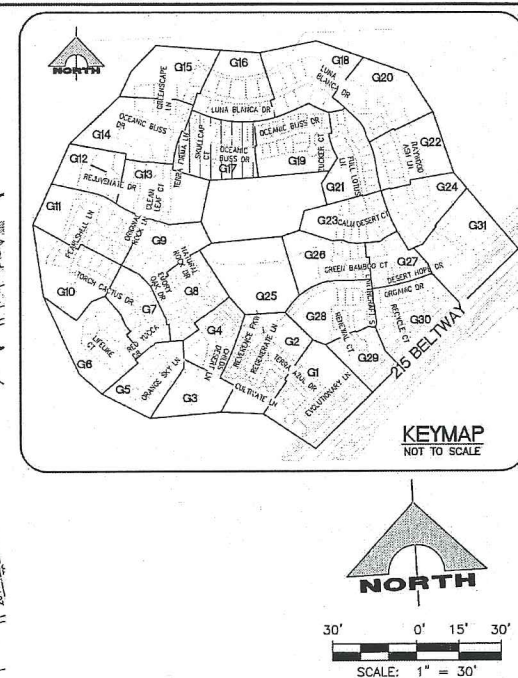
DRAWING	PULTE HOMES	1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2289 gowengineering.com	PROJECT NO.														
	SUMMERLIN VILLAGE 26 - REVERENCE PHASE 1		764-204-013	DESIGN: _____ DRAWN: _____ CHECK: _____ PLOT DATE: 05-12-16 PLOT TIME: 10:21:11													
G16	GRADING PLAN 16	ENGINEERS SURVEYORS gowengineering.com	F:\Projects\200764-204-013 DWS Production VPM 01\G16-PH1-C1.dwg														
			10 OF 173 SHTS														

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NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

DRAINAGE CERTIFICATION	
I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON THE CITY OF LAS VEGAS FOR THIS PROJECT.	
HAO A. NGUYEN P.E. 19396	DATE



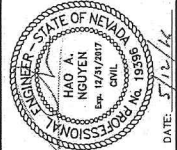
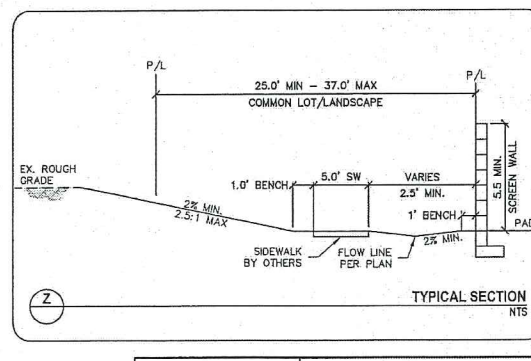
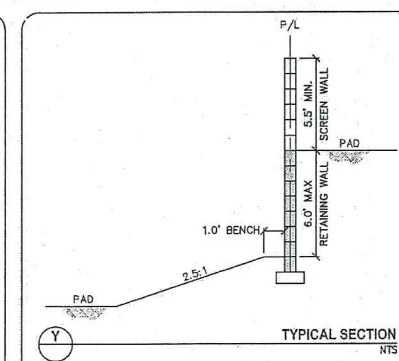
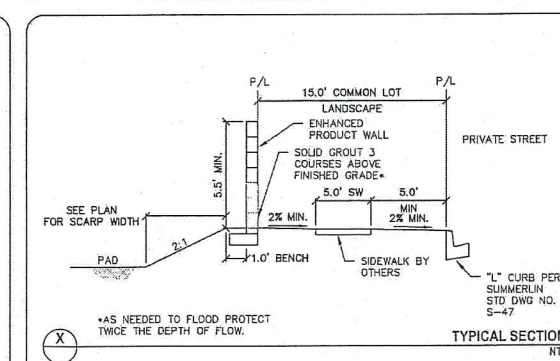
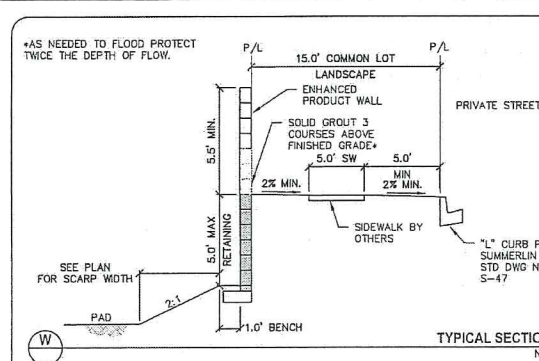
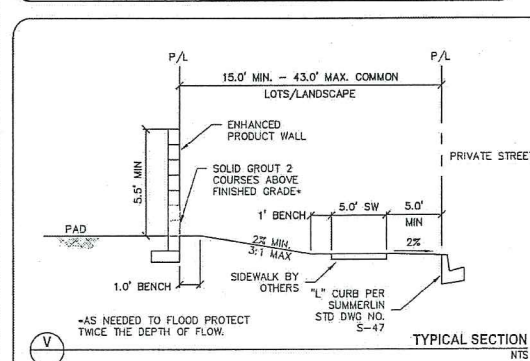
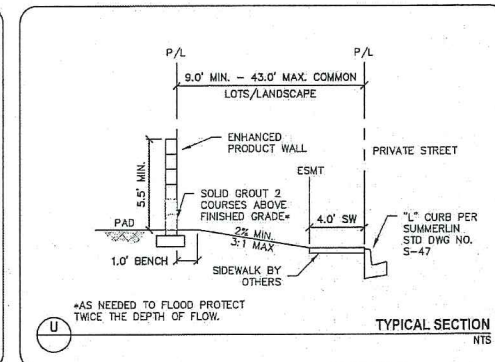
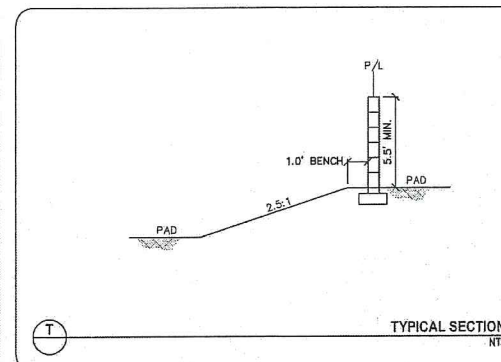
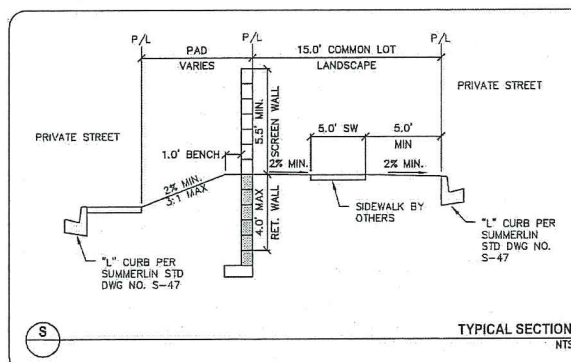
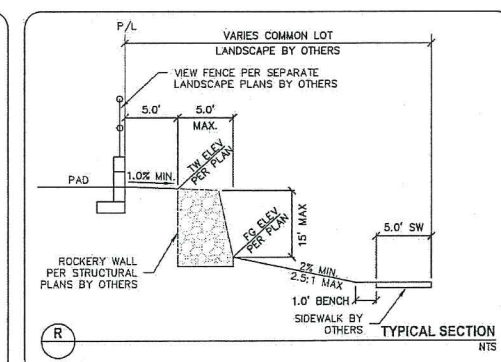
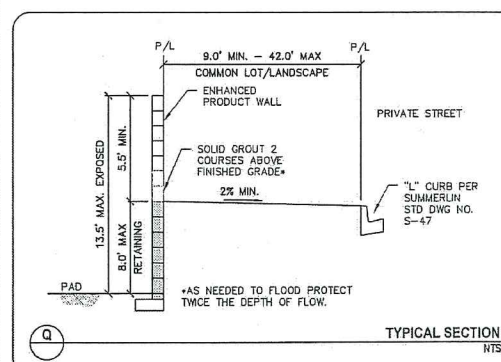
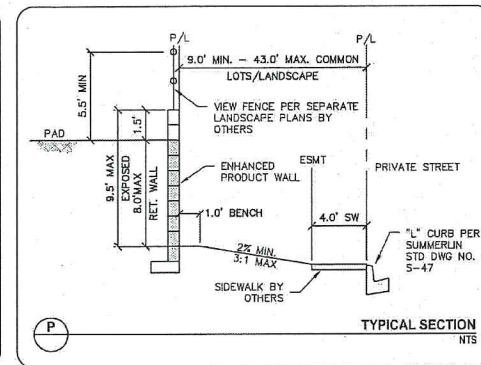
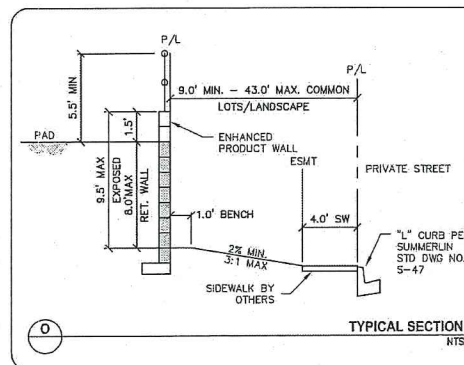
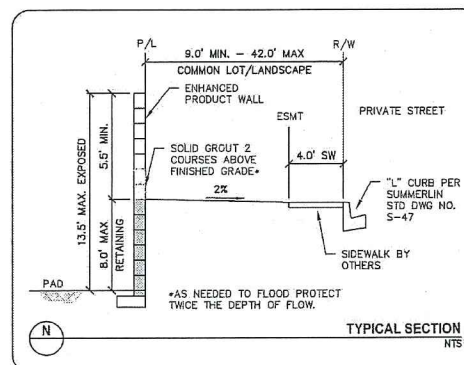
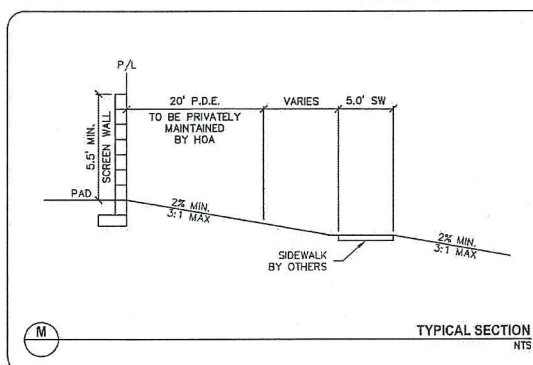
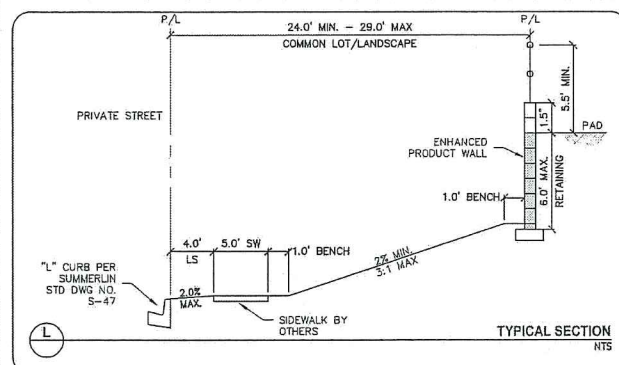
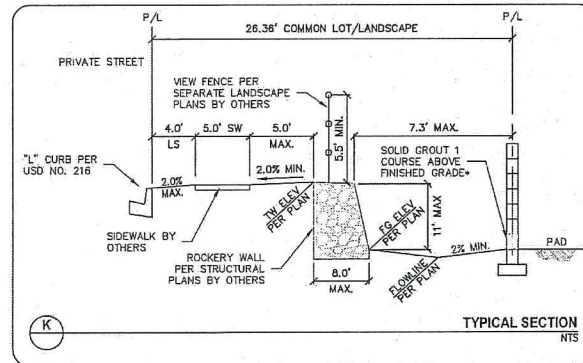
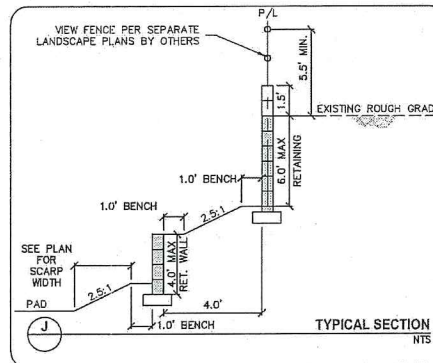
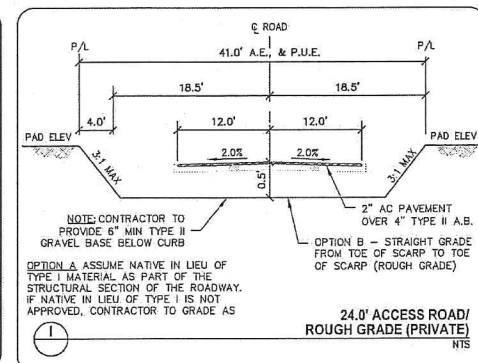
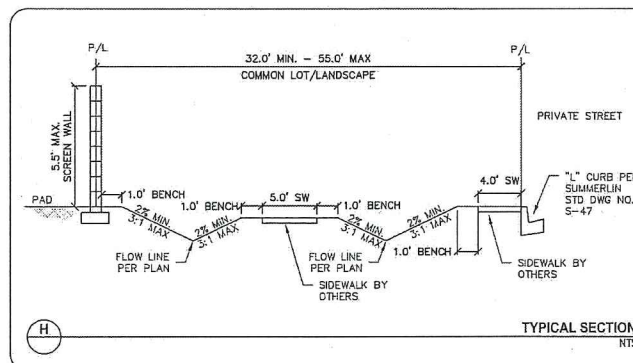
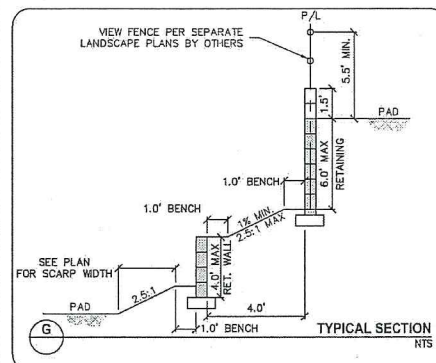
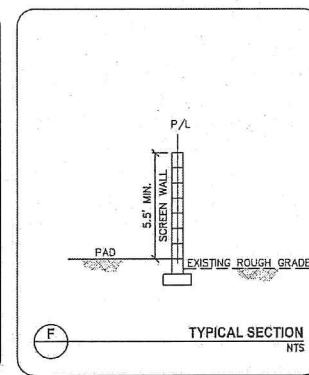
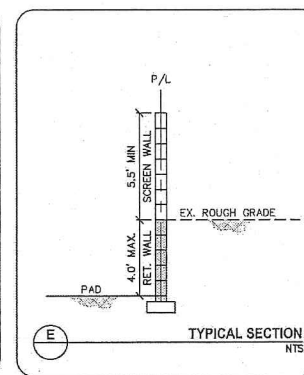
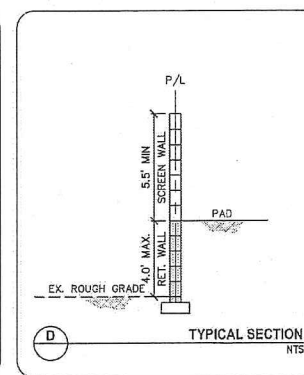
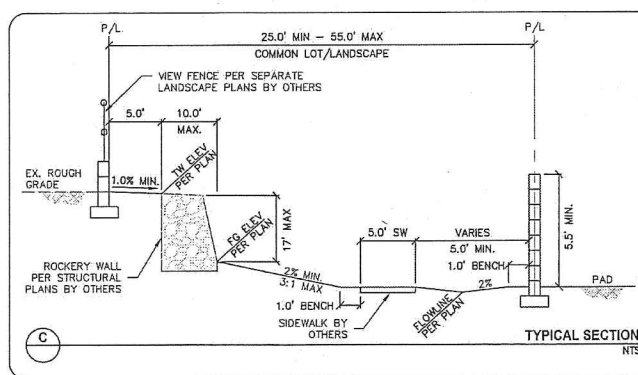
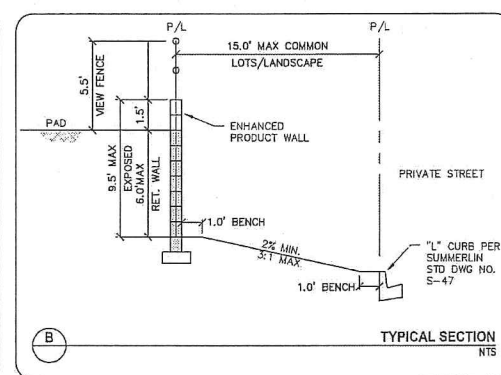
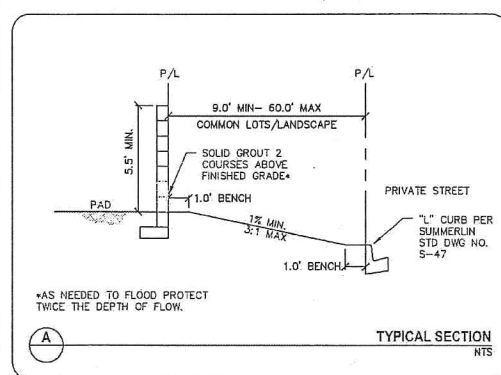
PULTE HOMES SUMMERLIN VILLAGE 28 - REVERENCE PHASE 1 DRAWING G17	ENGINEERS & SURVEYORS GCV 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2289 gowingengineering.com	PROJECT NO.	764-204-013
		DESIGN:	
		DRAWN:	
		CHECK:	
		PLOT DATE: 05-12-16	
		PLOT TIME: 10:20:56	

GRADING	
1	CONSTRUCT 2" AC OVER 4" TYPE II AB.
2	CONSTRUCT 3" AC OVER 4" TYPE II AB.
3	CONSTRUCT 4.5" AC OVER 4" TYPE II AB.
4	CONSTRUCT 24" L TYPE CURB AND GUTTER PER SUMMERLIN STD DWG NO. S-47.
5	CONSTRUCT "A" TYPE CURB AND GUTTER PER SUMMERLIN STD DWG NO. S-50.
6	CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRICULATED DOWNS OR EQUIVALENT PER USDOCA DWG NO. 23. CASE 1, A=4.0" UNLESS OTHERWISE NOTED ON PLANS.
7	CONSTRUCT 6" WIDE CROSS GUTTER PER SUMMERLIN STD DWG NO. S-64.
8	CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 AND S-48.

STORM DRAIN	
1	REMOVE PRECAST CONCRETE PLUG AND CONNECT STORM DRAIN.
2	CONSTRUCT 48" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
3	CONSTRUCT 60" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
4	CONSTRUCT 48" TYPE II MANHOLE PER USDOCA DWG NO. 405.2
5	CONSTRUCT 60" TYPE II MANHOLE PER USDOCA DWG NO. 406.3.
6	CONSTRUCT STORM DRAIN MANHOLE PER DETAIL 1 ON SHEET 52.
7	CONSTRUCT 5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
8	CONSTRUCT 10" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
9	CONSTRUCT 12.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
10	CONSTRUCT 15" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
11	CONSTRUCT 17.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
12	CONSTRUCT NDOT TYPE 2 DROP INLET PER "NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) R-4.2.1 ON SHEET D5, "A"=3.5" AND USDOCA DWG NO. 421.
13	CONSTRUCT SIDEWALK RAMP PER USDOCA DWG NO. 236.
14	REMOVE EXISTING RP-RAP.
15	INSTALL RP-RAP, D50=12", THICKNESS=24"
16	CONSTRUCT HEADWALL PER DETAIL 1 ON SHEET 53.
17	CONSTRUCT PRECAST CONCRETE PLUG.
18	CONSTRUCT 7.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.

NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

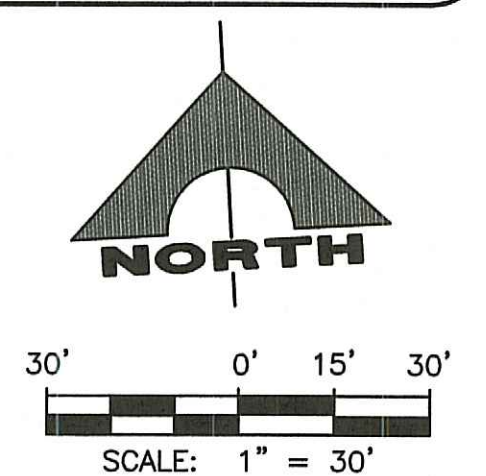
DRAINAGE CERTIFICATION	
I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.	
HAO-A. NGUYEN P.E. 19396	DATE

[illegible]

GCV' ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
[gowengineering.com](http://www.gowengineering.com)

PROJECT NO. **764-204-013**
 DESIGN:
 DRAWN:
 CHECK:
 PLOT DATE: 05-12-16
 PLOT TIME: 09:59:43

PULTE HOMES
SUMMERLIN VILLAGE 26 - REVERENCE PHASE 1
SECTIONS AND DETAILS II



GRADING

- STORM DRAIN**

- NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES.

BENCHMARK

BASIS OF BEARINGS

NOTE TO CONTRACTOR

NOTE

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.



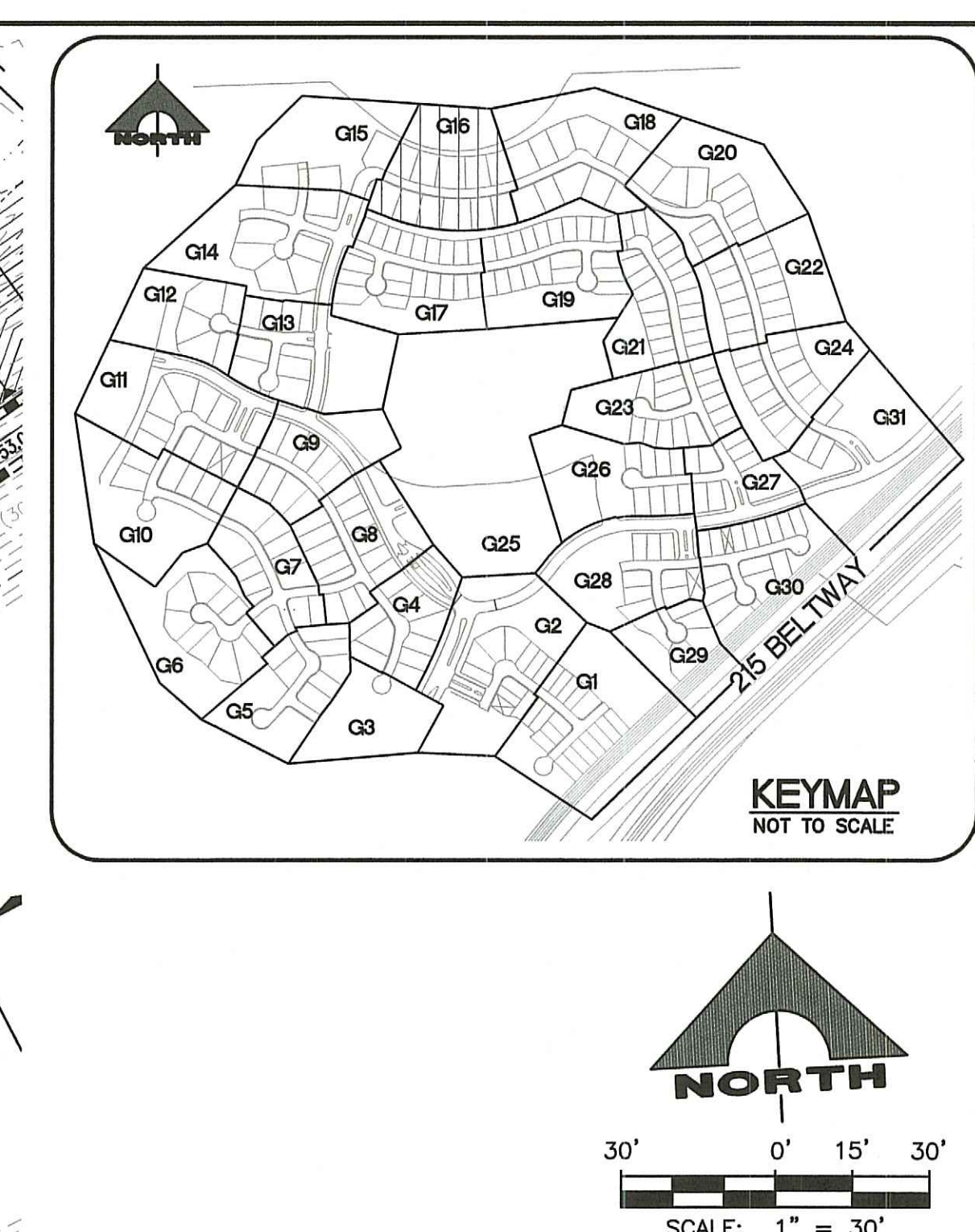
DRAINAGE CERTIFICATION

01-24-17
DATE

CLV DWG# 107Y5040-1

	8	
DRAWING G15 18 OF 180 SHTS		

GRADING PLAN 15



GRADING

1	CONSTRUCT 2" AC OVER 4" TYPE II AB.
2	CONSTRUCT 3" AC OVER 4" TYPE II AB.
3	CONSTRUCT 4.5" AC OVER 4" TYPE II AB.
4	CONSTRUCT 24" L TYPE CURB AND GUTTER PER SUMMERLIN STD DWG NO. S-47.
5	CONSTRUCT "A" TYPE CURB PER SUMMERLIN STD DWG NO. S-50.
6	CONSTRUCT SIDEWALK RAMP USING ARJOR TILE TRUNCATED DOMES OR EQUIVALENT PER USDOCA DWG NO. 235 - SIZE 1, A=8'-0" UNLESS OTHERWISE NOTED ON PLANS.
7	CONSTRUCT 8" WIDE CROSS CUTTER PER SUMMERLIN STD DWG NO. S-64.
8	CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 AND S-48.
9	CONSTRUCT 30" WROUGHT IRON FENCE PER DETAIL "1" ON SHEET G8.
10	CONSTRUCT 50" WROUGHT IRON FENCE PER DETAIL "1" ON SHEET D8.
11	CONSTRUCT SIDEWALK RAMP PER DETAIL 1 ON SHEET D3.
12	CONSTRUCT SIDEWALK RAMP PER DETAIL 1 ON SHEET D4.
13	CONSTRUCT 12" WIDE DEPRESSIONED CURB PER DETAIL 2 ON SHEET D6.

1	REMOVE PRECAST CONCRETE PLUG AND CONNECT STORM DRAIN.
2	CONSTRUCT 48" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
3	CONSTRUCT 60" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
4	CONSTRUCT 48" TYPE II MANHOLE PER USDOCA DWG NO. 405.2.
5	CONSTRUCT 60" TYPE III MANHOLE PER USDOCA DWG NO. 406.1.
6	CONSTRUCT STORM DRAIN MANHOLE PER DETAIL 1 ON SHEET S2.
7	CONSTRUCT 5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
8	CONSTRUCT 10" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
9	CONSTRUCT 12.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
10	CONSTRUCT 15" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
11	CONSTRUCT 17.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
12	CONSTRUCT INDOT TYPE 2 DROP INLET PER "INDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) R-4.2.1 ON SHEET D5, "A"-3.5 AND USDOCA DWG NO. 421.
13	CONSTRUCT SIDEWALK DRAIN PER USDOCA DWG NO. 236.
14	REMOVE EXISTING RIP-RAP.
15	INSTALL RIP-RAP, D50=12", THICKNESS=24"
16	CONSTRUCT HEADWALL PER DETAIL 1 ON SHEET S3.
17	CONSTRUCT PRECAST CONCRETE PLUG.
18	CONSTRUCT 7.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
19	CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)
20	CONSTRUCT WITH WATER TIGHT JOINTS, WITH ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT OF THE STORM DRAIN MAN UNTIL MINIMUM SEPARATION CAN BE ACHIEVED.
NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES	

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

PROJECT DATUM: SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM
CLARK COUNTY VERTICAL CONTROL POINT: SLV09 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.

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 IN FILE 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

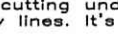
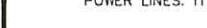
1. THE GEOTECHNICAL EXPLORATION PROPOSED RESIDENTIAL DEVELOPMENT AT SUMMERLIN VILLAGE 238, PARCEL 88 LAS VEGAS, NEVADA AS PREPARED BY ANGLE ENGINEERING, PROJECT NUMBER 77053-1, DATED MAY 28, 2014.
2. CONSTRUCTION FOR BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING SAFETY AND MAINTENANCE DEPARTMENT
3. WALLS CONSTRUCTED OTHER THAN THOSE AS DETAILED ON THIS SHEET ARE TO BE CONSTRUCTED BY WALL SUB-CONTRACTOR, DETAILS AND STRUCTURAL CALC'S AS PREPARED BY OTHERS.
4. NO OBJECT OVER 24" OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES CAN BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE.
5. ALL PRIVATE STREETS ARE TO BE DEDICATED AS PUBLIC DRAINAGE EASEMENT AND PUBLIC UTILITY EASEMENT TO BE PRIVATELY MAINTAINED.

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS4783 ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

HAO A. NGUYEN P.E. 19396 01-24-17
DATE

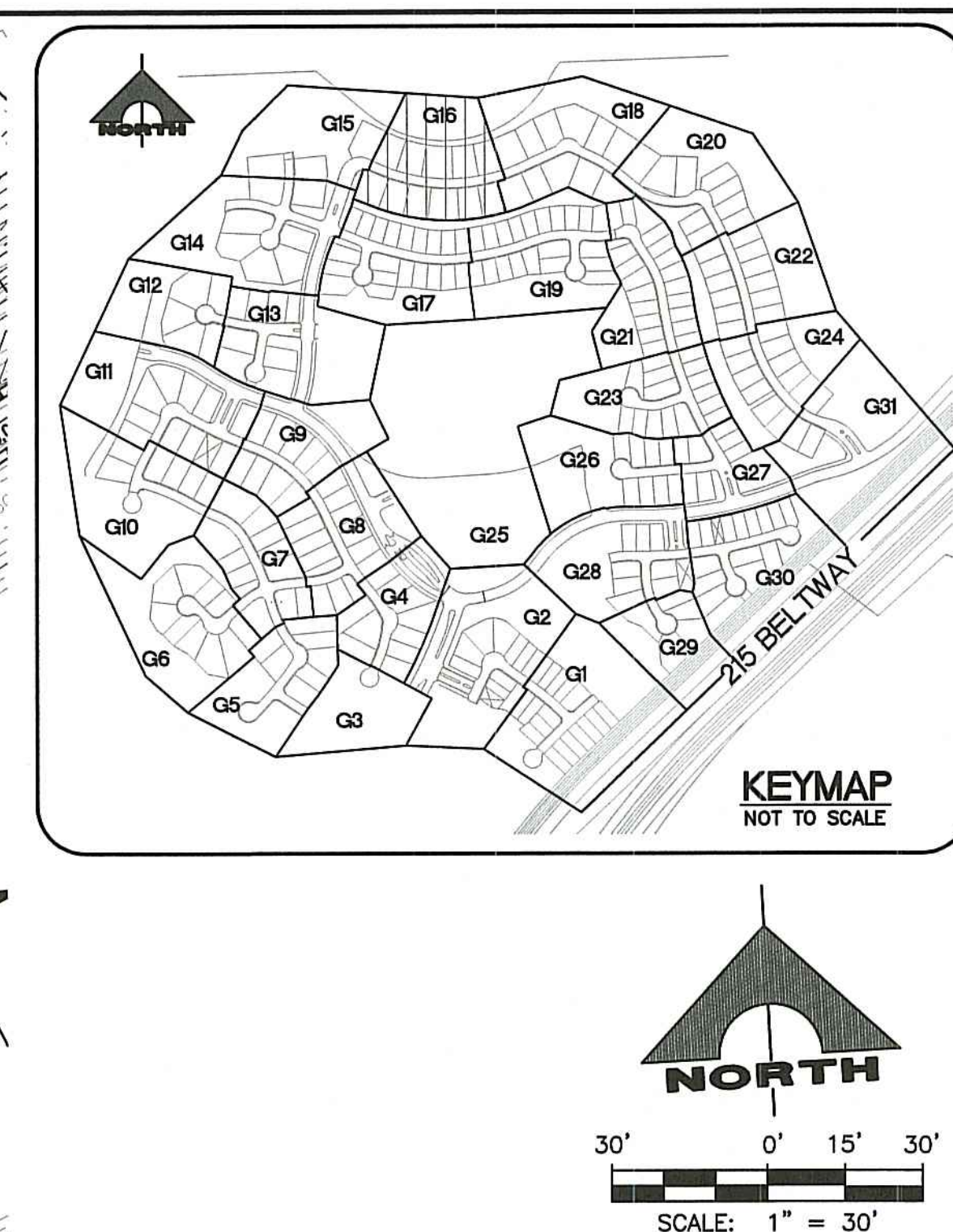
H# 64956

CLV DWG# 107Y5040-1

Call before you Dig Avoid existing underground utility lines. It's costly. Call  OR 1-800-227-2600	FAST  Call before you Under Ground 1-702-432-5300 FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION	AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY  CALL BEFORE YOU DO OVERHEAD 1-702-227-2929
---	---	--

PULTE HOMES SUMMERLIN VILLAGE 26 - REVERENCE PHASE 1	 ENGINEERS \ SURVEYORS 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcwengineering.com	PROJECT NO. 764-204-013											
		DESIGN: DRAWN: CHECK:		PLOT DATE: 01-24-17 PLOT TIME: 09:38:31	DATE	REV	DESCRIPTION	DATE	AGEN. APP	DATE	GCW APP		
GRADING PLAN 16													
DRAWING G16 19 OF 180 SHEETS													

[illegible]

[illegible]



ENGINEERS & SURVEYORS

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

PROJECT NO.

764-204-013

DESIGN:

DRAWN:

CHECK:

PLOT DATE: 02-13-17

PLOT TIME: 11:12:13

PULTE HOMES SUMMERLIN VILLAGE 26 - REVERENCE PHASE 1 GRADING PLAN 16	DRAWING G16 19 OF 180 SHTS

CONSTRUCTION NOTES

GRADING

1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
2. CONSTRUCT 3" AC OVER 4" TYPE II AB.
3. CONSTRUCT 4.5" AC OVER 4" TYPE II AB.
4. CONSTRUCT 24" L TYPE CURB AND GUTTER PER SUMMERLIN STD DWG NO. S-47.
5. CONSTRUCT "A" TYPE CURB PER SUMMERLIN STD DWG NO. S-50.
6. CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER USDOCA DWG NO. 239.
7. CASE 1, $A+B=8.0'$ UNLESS OTHERWISE NOTED ON PLANS.
8. CONSTRUCT 8" WIDE CROSS GUTTER PER SUMMERLIN STD DWG NO. S-64.
9. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 AND S-48.
10. CONSTRUCT 30" WROUGHT IRON FENCE PER DETAIL "1" ON SHEET 6B.
11. CONSTRUCT 50" WROUGHT IRON FENCE PER DETAIL "1" ON SHEET 6B.
12. CONSTRUCT SIDEWALK RAMP PER DETAIL 1 ON SHEET D3.
13. CONSTRUCT SIDEWALK RAMP PER DETAIL 1 ON SHEET D4.
14. CONSTRUCT 12" WIDE DEPRESSIONED CURB PER DETAIL 2 ON SHEET D6.

STORM DRAIN

1. REMOVE PRECAST CONCRETE PLUG AND CONNECT STORM DRAIN.
2. CONSTRUCT 48" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
3. CONSTRUCT 60" TYPE I MANHOLE PER USDOCA DWG NO. 403.1.
4. CONSTRUCT 48" TYPE II MANHOLE PER USDOCA DWG NO. 405.2.
5. CONSTRUCT 60" TYPE III MANHOLE PER USDOCA DWG NO. 406.1.
6. CONSTRUCT STORM DRAIN MANHOLE PER DETAIL 1 ON SHEET 52.
7. CONSTRUCT 5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
8. CONSTRUCT 10" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
9. CONSTRUCT 12.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
10. CONSTRUCT 15" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
11. CONSTRUCT 17.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
12. CONSTRUCT NDOT TYPE 2 DROP INLET PER "NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) R-4.2.1 ON SHEET D5, "A"-3.5, AND USDOCA DWG NO. 421.
13. CONSTRUCT SIDEWALK DRAIN PER USDOCA DWG NO. 236.
14. REMOVE EXISTING RIP-RAP.
15. INSTALL RIP-RAP, $D_{50}=12"$, THICKNESS=24"
16. CONSTRUCT HEADWALL PER DETAIL 1 ON SHEET S3.
17. CONSTRUCT PRECAST CONCRETE PLUG.
18. CONSTRUCT 7.5" TYPE "CM2" MODIFIED DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
19. CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STOP (WYNLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUIV).
20. CONSTRUCT WITH WATER TIGHT JOINTS, WITH ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT OF THE STORM DRAIN MANHOLE UNTIL MINIMUM SEPARATION CAN BE ACHIEVED.

NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES

21) SOLID GROUTED 3 COURSES ABOVE ADJACENT FINISHED GRADE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS4783 ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

[Signature]
HAO A. NGUYEN P.E. 19396

02-13-17
DATE

H# 64956

CLV DWG# 107Y5040-1

Call before you Dig
Avoid cutting underground
utility lines. It's costly.

Call
811

OR
1-800-227-2600

FAST
Call before you
UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

NOTE TO CONTRACTOR

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NOTE

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BENCHMARK

PROJECT DATUM: SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM
CLARK COUNTY VERTICAL CONTROL POINT: SLV09 1456

SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAV088 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 NAV088 DATUM.

BASIS OF BEARINGS

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 2N
RANGE 12E, EAST M.D.M., AS SHOWN IN FILE 112, PAGE 94 OF PARCEL MAPS ON
FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NOTE

1. THE GEOTECHNICAL EXPLORATION PROPOSED RESIDENTIAL DEVELOPMENT SUMMERLIN VILLAGE 238, PARCEL 88 LAS VEGAS, NEVADA AS PREPARED BY ANGLE ENGINEERING, PROJECT NUMBER 77053-1, DATED MAY 28, 2014.
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3. WALLS CONSTRUCTED OTHER THAN THOSE AS DETAILED ON THIS SHEET ARE TO BE CONSTRUCTED BY WALL SUB-CONTRACTOR, DETAILS AND STRUCTURAL CALC'S AS PREPARED BY OTHERS.
4. NO OBJECT OVER 24" OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES CAN BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE.
5. ALL PRIVATE STREETS ARE TO BE DEDICATED AS PUBLIC DRAINAGE EASEMENT AND PUBLIC UTILITY EASEMENT TO BE PRIVATELY MAINTAINED.

