

DS #: 4523

APN: 137-25-411-001

PROJECT: Desert Springs United Methodist - Update # 3

SUBMITTAL: 3rd

SCANNED BY/DATE: _____

CHECKED BY/DATE: _____



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

August 21, 2012

TO:

Land Development Services
Department of Public Works

FROM:

Albert Sung, P.E.
Flood Control Project Engineer
Department of Public Works

SUBJECT:

Drainage Study for:

Desert Springs United Methodist Church – Update #3

COPIES TO:

Wright One Source

Cross Streets:

NEC of Pavilion Center Dr. & Greenmoor Ln.

Church Methodist Desert Springs

File Number:

F:\Depot\DSMemos\DS4523C.doc

Bart Anderson, P.E., DevCo

Parcel Number:

137-25-411-001

Zoning Action:

CRG-40699

FEMA Flood Zone

YES

NO

X

Proposed Storm Drain

YES

NO

X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
1 st Submittal	3/1/2011	3/14/2011	Not Approved	\$400.00	163651: \$400
2 nd Submittal & Supplement	4/13/2011 & 5/11/2011	5/17/2011	Approved	\$400.00	166521: \$400
3 rd Submittal	8/16/2012	8/21/2012	See Comments Below	N/C	N/C
TOTAL FEES (LDDRS):				\$800.00	----

REMARKS:

3rd Submittal: Update for Minor modification for onsite curb alignment

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.

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 Amendment 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/25
AREA K-25

*** FAX TX REPORT ***

TRANSMISSION OK

JOB NO. 4638
 DESTINATION ADDRESS 9337001
 PSWD/SUBADDRESS
 DESTINATION ID
 ST. TIME 08/21 15:56
 USAGE T 01' 05
 PGS. 1
 RESULT OK

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

TO:
Land Development Services
Department of Public Works

SUBJECT: Drainage Study for:
Desert Springs United Methodist Church – Update #3

Cross Streets: NEC of Pavilion Center Dr. & Greenmoor Ln.

File Number: F:\Depot\DSMemos\DS4523C.doc

Parcel Number: 137-25-411-001

Zoning Action: CRG-40699

FEMA Flood Zone YES NO **X**

Proposed Storm Drain YES NO **X**

DATE:

August 21, 2012

FROM:
Albert Sung, P.E.
Flood Control Project Engineer
Department of Public Works

COPIES TO:

Wright One Source

Church Methodist Desert Springs

Bart Anderson, P.E., DevCo

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NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a



Rec'd : 8/16/12
DS 4523

K-25
N/C

August 14, 2012

CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
PLUMBING
SURVEYING
LEED

Albert Sung
Flood Control
City of Las Vegas Public Works
731 S. Fourth Street
Las Vegas, Nevada 89101

**RE: TECHNICAL DRAINAGE STUDY FOR DESERT SPRING UNITED
METHODIST CHURCH. AKA DSUMC SANCTUARY EXPANSION**
Job No. CN100298

- Update #3

Dear Mr. Sung:

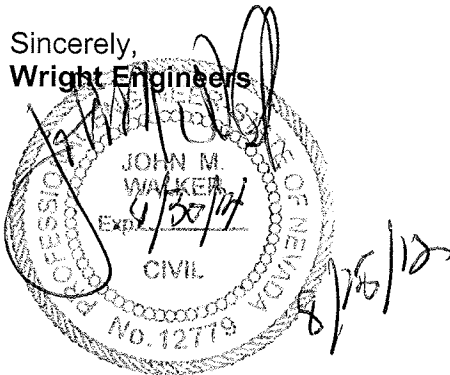
This letter is in regards to the modification to the on-site curb alignment. This modification does not change the previously delineated drainage patterns

The approved drainage study on file with the City of Las Vegas is:

Update #2 to the TDS for DSUMC (DS3988) completed by Wright Engineers, and approved on May 17, 2011.

If you have any questions or comments regarding this project, please do not hesitate to contact this office at (702) 933-7000.

Sincerely,
Wright Engineers



John M. Walker, P.E.
Project Manager

1635 Village Center Cr,
Ste 200
Las Vegas, NV 89134
(p) 702.933.7000
(f) 702.933.7001
800.933.7611
wrightengineers.com



TRANSMITTAL

DATE: Aug 16, 2012

CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
PLUMBING
ENERGY
MODELING
COMMISSIONING
LEED
ADMINISTRATION

TO: City of Las Vegas – Flood Control
333 N. Rancho Drive
Las Vegas, NV 89106

ATTN: ALBERT SUNG

PROJECT: Desert Spring United Methodist Church
PROJECT No: CN100298-002
PROJECT MGR: John Walker

VIA: Hand Deliver
FOR: Approval
COPIES TO:

FROM: Amber Dolce

ITEM	QTY	DESCRIPTION
OTHER	1	Letter of Justification for Revision of Project #41831
PRINTS	1	Wet Stamped Revised Sheet GP1 & GP2

REMARKS:

Albert, per your conversation with John Walker, please accept the attached response letter and wet stamped revised plans. Give John a call if you have any questions. Thanks!

Las Vegas

1635 Village Center
Circle, Suite 200
Las Vegas, NV 89134
(p) 702.933.7000
(f) 702.933.7001
800.933.7611

Irvine

2 Venture, Suite 200
Irvine, CA 92618
(p) 949.477.4001
(f) 949.477.4009

Phoenix

3115 S. Price Road
Chandler, AZ 85248
(p) 480.483.6111
(f) 480.483.6112

Salt Lake

9176 South 300 West
Suite 12
Sandy, UT 84070
(p) 801.352.2001
(f) 801.352.2006
wrightengineers.com
(p) 800.933.7611

COMPLETED BY: Amber Dolce

CALLED BY:

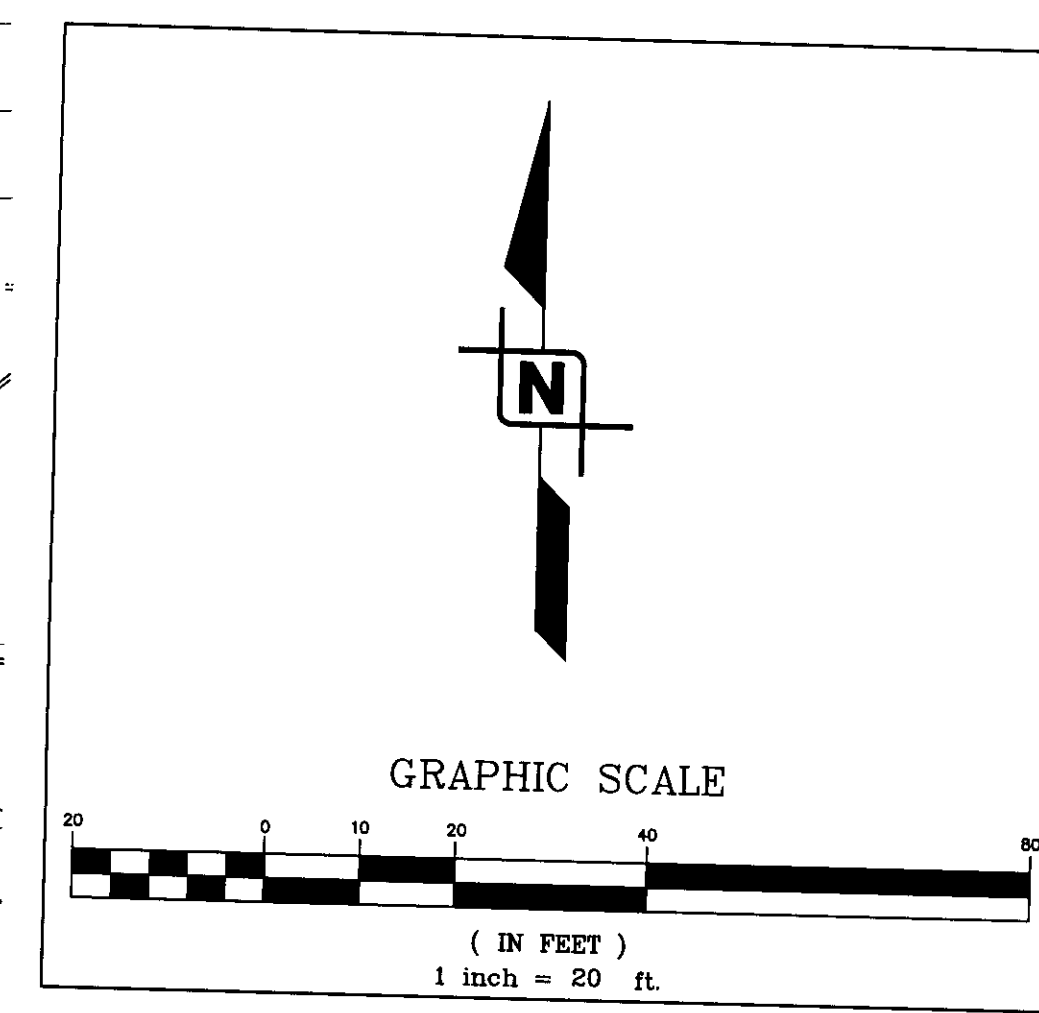
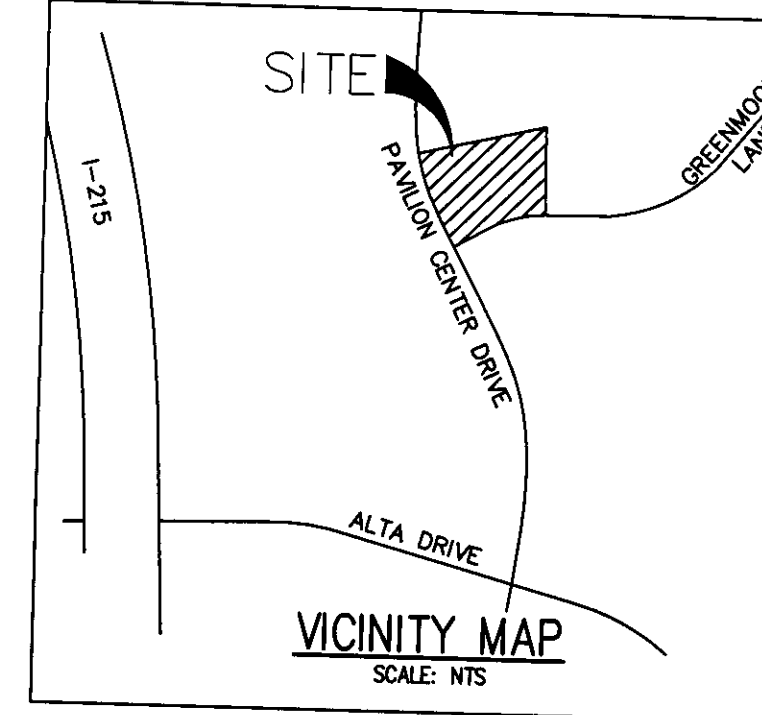
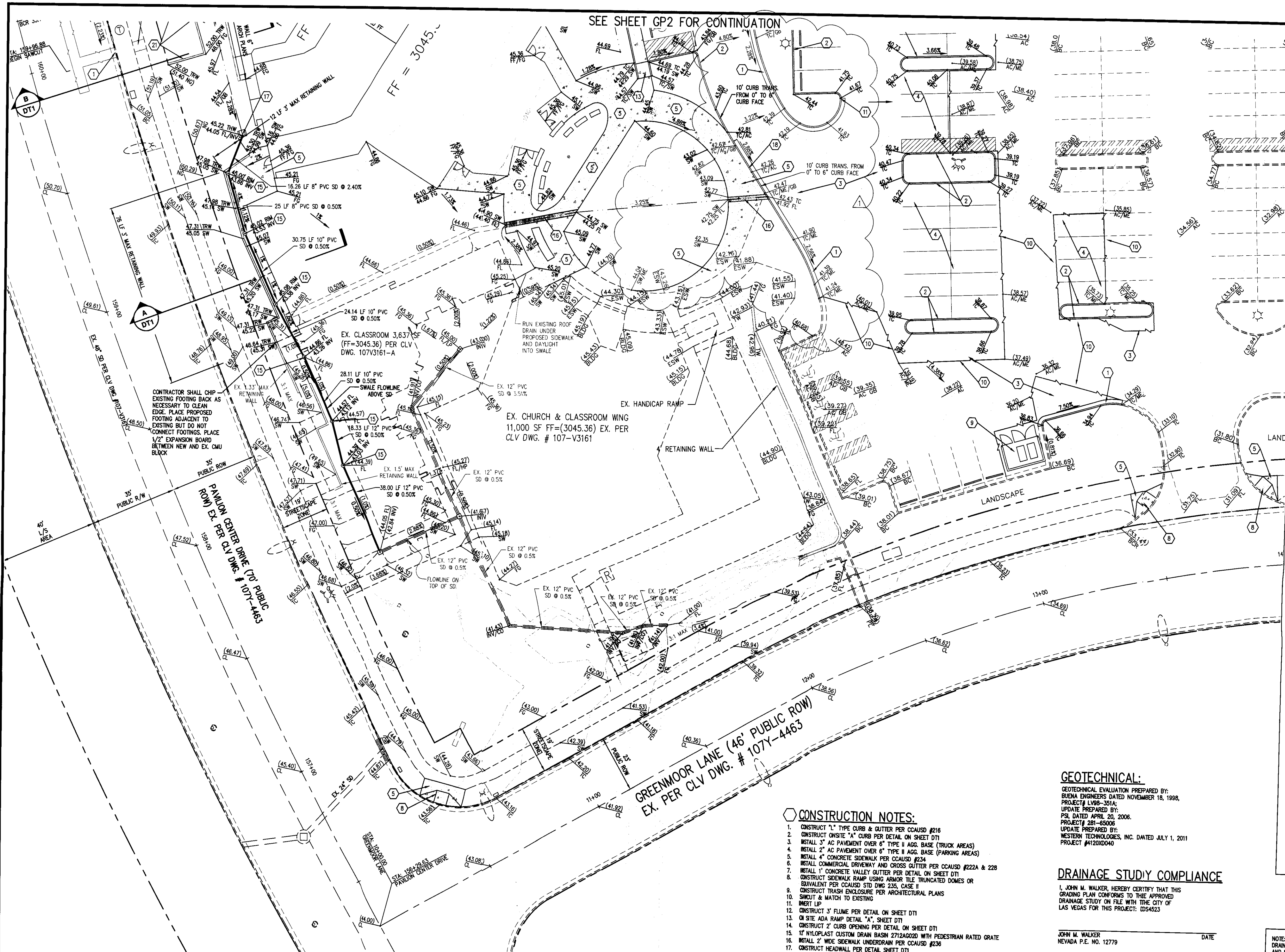
TIME:

DATE:

SIGNATURE:

PRINT NAME:

DATE:



LEGEND	
	RIGHT-OF-WAY/PROPERTY LINE
	STREET CENTER LINE
	EXISTING BUILDING
	PROPOSED BUILDING
	EXISTING CURB & GUTTER
	PROPOSED CURB & GUTTER
	EXISTING EDGE OF A.C. PAVEMENT
	SIGHT VISIBILITY ZONE
	EXISTING CMU WALL
	EXISTING 1' CONTOUR
	EXISTING 5' CONTOUR
	PROPOSED CONTOUR
	SECTION / DETAIL SYMBOL
	HC ACCESS ROUTE
	GRADE BREAK
	SLOPE & DIRECTION OF SLOPE

CONSTRUCTION NOTES:

1. CONSTRUCT 1" TYPE CURB & GUTTER PER CAUSD #216
2. CONSTRUCT ON-SITE "A" CURB PER DETAIL ON SHEET DT1
3. INSTALL 3" AC PAVEMENT OVER 6" TYPE II AGG. BASE (TRUCK AREAS)
4. INSTALL 2" AC PAVEMENT OVER 6" TYPE II AGG. BASE (PARKING AREAS)
5. INSTALL 4" CONCRETE SIDEWALK PER CAUSD #234
6. INSTALL COMMERCIAL DRIVEWAY AND CROSS GUTTER PER DETAIL ON SHEET DT1
7. INSTALL 1" CONCRETE VALLEY GUTTER PER DETAIL ON SHEET DT1
8. CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CAUSD STD DWG 235, CASE II
9. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS
10. SLOPE & MATCH TO EXISTING
11. INVERT LIP
12. CONSTRUCT 3" FLUME PER DETAIL ON SHEET DT1
13. ON SITE ADA RAMP DETAIL "A", SHEET DT1
14. CONSTRUCT 2" CURB OPENING PER DETAIL ON SHEET DT1
15. 12" NYLOPLAST CUSTOM DRAIN BASIN 2712A0020 WITH PEDESTRIAN RATED GRATE
16. INSTALL 2" WIDE SIDEWALK UNDERDRAIN PER CAUSD #236
17. CONSTRUCT HEADWALL PER DETAIL SHEET DT1
18. CONSTRUCT 10" CURB FACE
19. INSTALL 4" AC PAVEMENT OVER 4" TYPE II AGG. BASE OVER 4" TYPE I AGG. BASE
20. INSTALL BUMPER BLOCK PER STANDARD DWG. 238
21. CONSTRUCT 4" MAX. HEIGHT RETAINING WALL
22. (2) IRRIGATION SLEEVES. REFER TO LANDSCAPE DRAWINGS FOR SIZE AND TYPE.

GEOTECHNICAL:

GEOTECHNICAL EVALUATION PREPARED BY:
BUENA ENGINEERS DATED NOVEMBER 18, 1998,
PROJECT # L98-351A;
UPDATE PREPARED BY:
PSI, DATED APRIL 20, 2006,
PROJECT # 281-85006
UPDATE PREPARED BY:
WESTERN TECHNOLOGIES, INC. DATED JULY 1, 2011
PROJECT #4120X0040

DRAINAGE STUDY COMPLIANCE

I, JOHN M. WALKER, HEREBY CERTIFY THAT THIS
GRADING PLAN CONFORMS TO THE APPROVED
DRAINAGE STUDY ON FILE WITH THE CITY OF
LAS VEGAS FOR THIS PROJECT: DS4523

JOHN M. WALKER
NEVADA P.E. NO. 12779

FLOOD ZONE NOTE

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)
FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER
32003C 2150E, CLARK COUNTY, NEVADA, DATED SEPTEMBER 27, 2002,
THE SITE LIES WITHIN A FEMA DESIGNATED ZONE "X". A ZONE "X" IS
DESCRIBED AS AREAS DETERMINED TO BE OUTSIDE OF THE 500-YEAR
FLOODPLAIN

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN 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 DISCREPANCIES MUST BE
IMMEDIATELY REPORTED TO THE ENGINEER.
CALL BEFORE YOU DIG: 1-800-227-2600.

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT (USA)

Call before you Dig.
1-702-593-6111
UNDERGROUND SERVICE ALERT (USA)

NOTE: ALL ON-SITE STORM
DRAINS ARE PRIVATELY OWNED
AND MAINTAINED.

Call before you Dig.
1-702-455-7511
1-702-229-6911
LAS VEGAS AREA COMPREHENSIVE TRAFFIC SYSTEM

BASIS OF BEARING
THE LINE BETWEEN THE INTERSECTION OF THE CENTERLINES OF
REGAL MESA AVENUE AND THE CENTERLINE OF SILVER CASTLE
STREET AND THE NORTHEASTLY END OF SILVER CASTLE STREET
(7.5' FROM THE CENTER OF THE CURB-DE-SLO) WAS TAKEN AS
N40°47'32"E, AS CALCULATED FROM THE MAP OF CHARDONWAY
No. 41 - AS TAKEN FROM THE MAP OF CHARDONWAY
AT PAGE 47, CLARK COUNTY NEVADA RECORDS.

LEGAL DESCRIPTION
LOT 6, BLOCK B OF THE ARBORS AT SUMMERLIN VILLAGE 11/12
NO. 2A AS RECORDED IN BOOK 75 OF PLATS PAGE 75 FOUND
IN THE RECORDERS OFFICE OF CLARK COUNTY, NEVADA.

BENCHMARK
PROJECT VERTICAL DATUM: NAVD83
CITY OF LAS VEGAS B.M. QJ09 30WHS
NAVD83 ELEV: 927.952 METERS (3044.50 FEET)
RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER
OF PAVILION CENTER AND GREENMOOR.
CITY OF LAS VEGAS, NEVADA

WRIGHT
engineers

7425 PEAK DRIVE LAS VEGAS, NEVADA 89178
P (702) 702-9370
WWW.WRIGHTENGINEERS.COM
LAS VEGAS - IRVINE - PHOENIX - SACRAMENTO

REV	DATE	BY	REVISION
1	11/16/10	RDC	PROJECT MGR.
2	11/16/10	RDC	PROJECT MGR.
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100	11/16/10	RDC	PROJECT MGR.

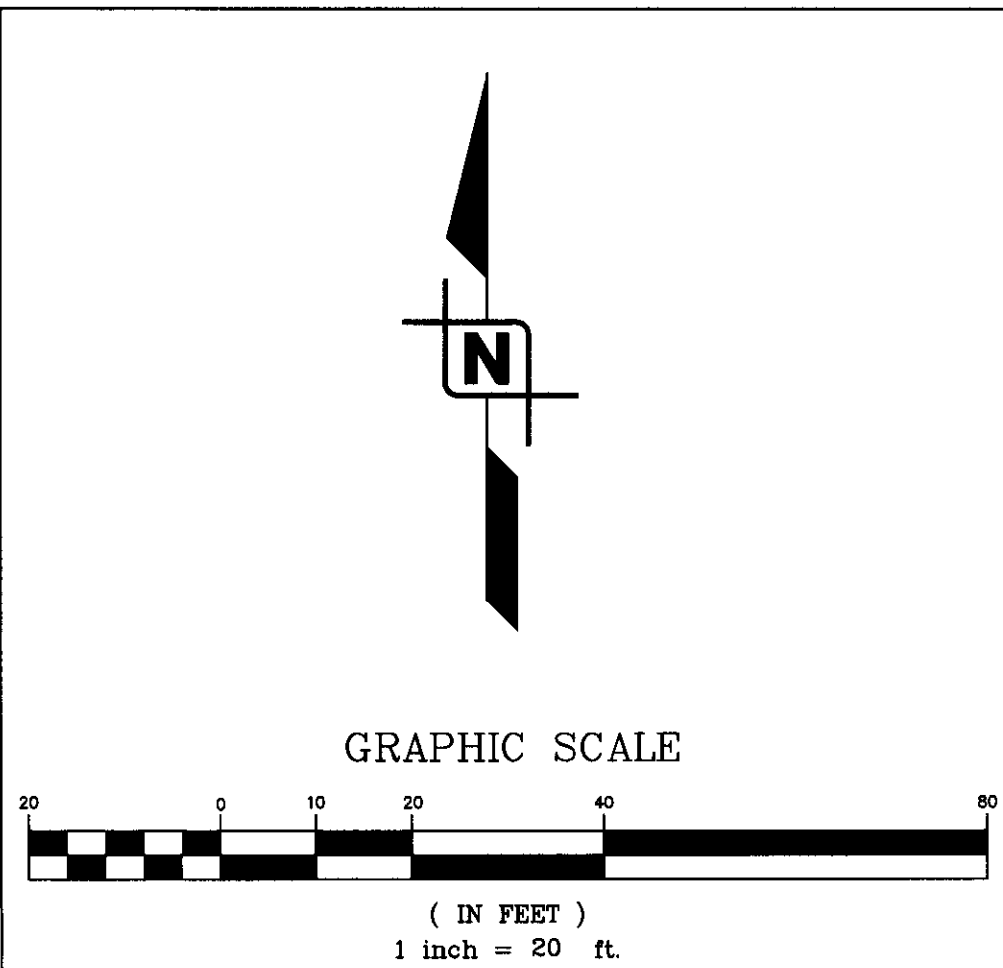
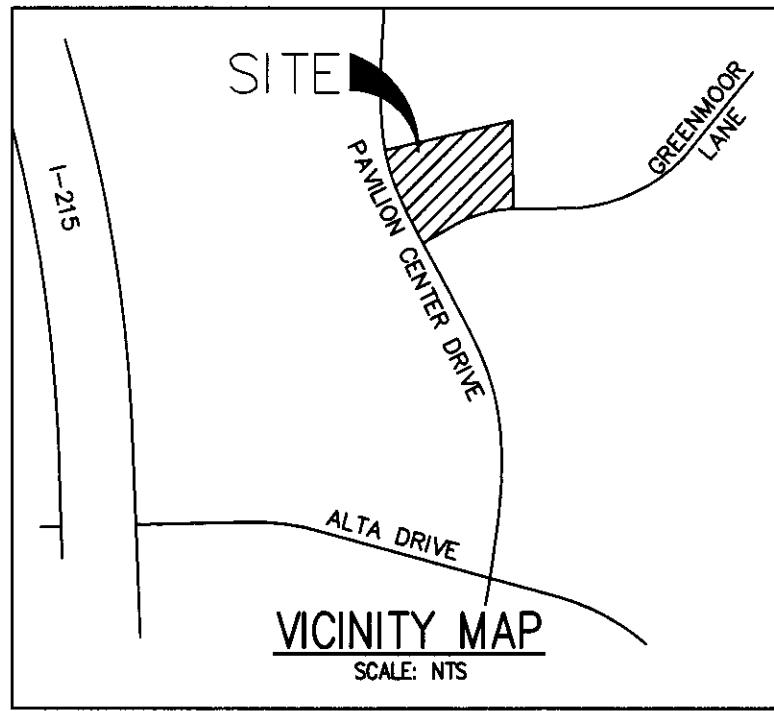
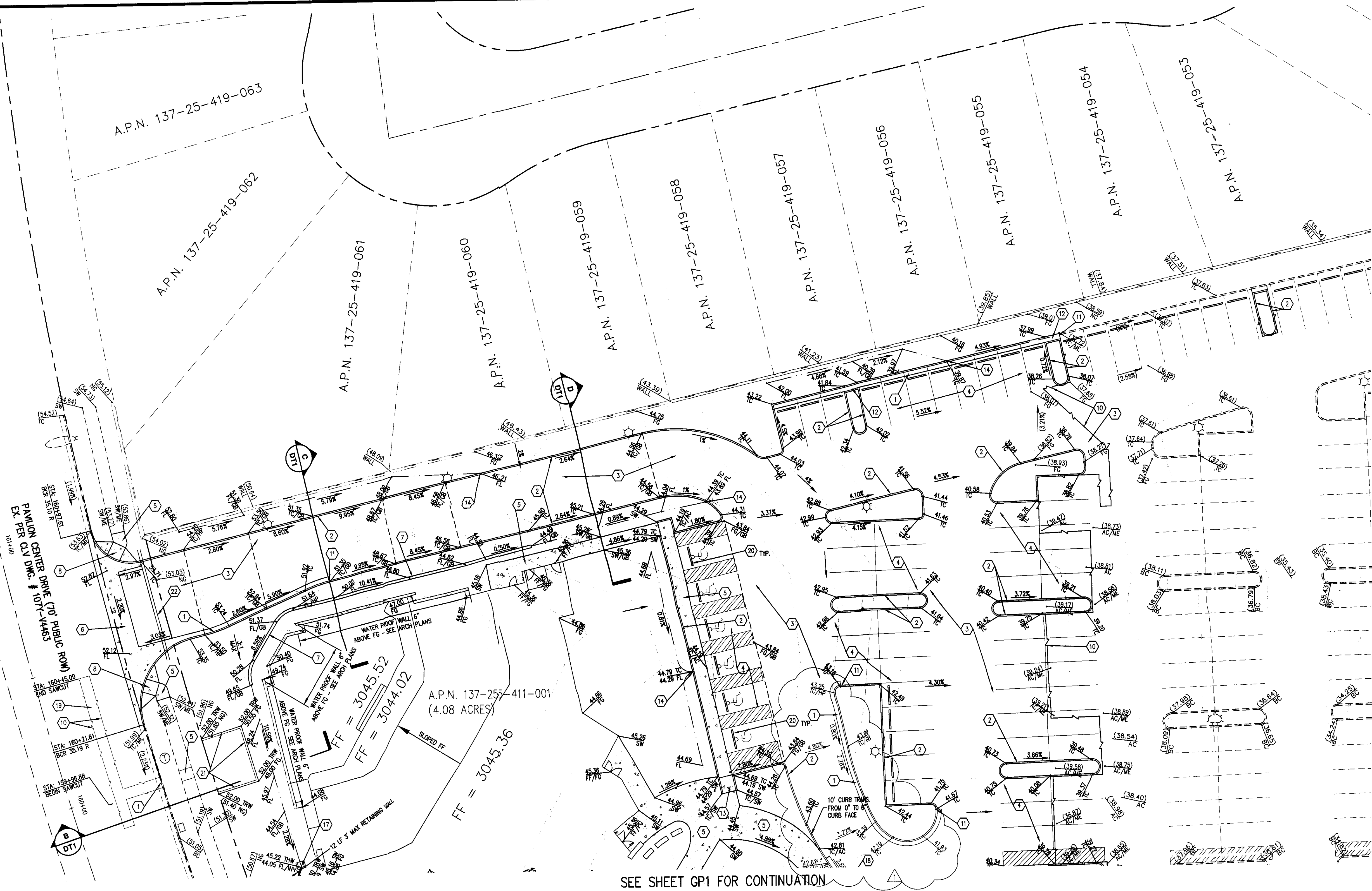
JOSEPH N. BRANCA ARCHITECT
2821 CHANNEL BAY DRIVE
LAS VEGAS, NEVADA 89127
TEL (702) 385-1033 FAX (702) 288-3002

JOSEPH N. BRANCA ARCHITECT
DSUMC EXPANSION

JOHN M. WALKER
P.E. NO. 12779
CIVIL

AUG 16 2012

SHEET
CP1
5 OF 8 SHEETS
DRAWING NO.



LEGEND

RIGHT-OF-WAY/PROPERTY LINE
STREET CENTER LINE
EXISTING BUILDING
PROPOSED BUILDING
EXISTING CURB & GUTTER
PROPOSED CURB & GUTTER
EXISTING EDGE OF A.C. PAVEMENT
SIGHT VISIBILITY ZONE
NOTE: NOTHING OVER 24" IN HEIGHT ALLOWED IN SVZ EXCEPT TRAFFIC COURSE DEVICES
EXISTING CMU WALL
EXISTING 1' CONTOUR
EXISTING 5' CONTOUR
PROPOSED CONTOUR
SECTION / DETAIL SYMBOL
HC ACCESS ROUTE
GRADE BREAK
SLOPE & DIRECTION OF SLOPE
4.80%
6.7%
6.7%
SCARP 3:1 MAX

This grading plan is a part of drainage study # 1523 which was received on 8/16/12 and App'd on 8/21/12 Page 2 of 2

- CONSTRUCTION NOTES:**
1. CONSTRUCT 1" TYPE CURB & GUTTER PER CCAUSD #216
 2. CONSTRUCT ON-SITE 1" CURE PER DETAIL ON SHEET DT1
 3. INSTALL 3" AC PAVEMENT OVER 6" TYPE II AGG. BASE (TRUCK AREAS)
 4. INSTALL 2" AC PAVEMENT OVER 6" TYPE II AGG. BASE (PARKING AREAS)
 5. INSTALL 4" CONCRETE SIDEWALK PER CCAUSD #224
 6. INSTALL COMMERCIAL DRIVEWAY AND CROSS GUTTER PER CCAUSD #222A & 228
 7. INSTALL 6" CONCRETE VALLEY GUTTER PER DETAIL ON SHEET DT1
 8. CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD STD DWG 235, CASE II
 9. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS
 10. SAWCUT & MATCH TO EXISTING
 11. INVERT LIP
 12. CONSTRUCT 3" FLUME PER DETAIL ON SHEET DT1
 13. ON SITE ADA RAMP DETAIL "A", SHEET DT1
 14. CONSTRUCT 2" CURE OPENING PER DETAIL ON SHEET DT1
 15. 12" NYLOPLAST CUSTOM DRAIN BASIN 2712A002D WITH PEDESTRIAN RATED GRATE
 16. INSTALL 2" WIDE SIDEWALK UNDERDRAN PER CCAUSD #236
 17. CONSTRUCT HEADWALL PER DETAIL SHEET DT1
 18. CONSTRUCT 10" CURE FACE
 19. INSTALL 4" AC PAVEMENT OVER 4" TYPE II AGG. BASE OVER 4" TYPE I AGG. BASE
 20. INSTALL BUMPER BLOCK PER STANDARD DWG. 238
 21. CONSTRUCT 4" MAX. HEIGHT RETAINING WALL
 22. (2) IRRIGATION SLEEVES. REFER TO LANDSCAPE DRAWINGS FOR SIZE AND TYPE.

NOTE: ALL HANDICAP ACCESS ROUTES ARE AT A MAXIMUM OF 5% DOWNSLOPE AND 2% CROSS SLOPE & 2% IN DIRECTION CHANGE.

GEOTECHNICAL:
GEOTECHNICAL EVALUATION PREPARED BY: BUENA ENGINEERS DATED NOVEMBER 18, 1998, PROJECT# LV98-351A;
UPDATE PREPARED BY: PS, DATED APRIL 20, 2006, PROJECT# 281-65006
UPDATE PREPARED BY: WESTERN TECHNOLOGIES, INC. DATED JULY 1, 2011, PROJECT #A12020040

DRAINAGE STUDY COMPLIANCE
I, JOHN M. WALKER, HEREBY CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT: DS4523

FLOOD ZONE NOTE
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 32003C 2150E, CLARK COUNTY, NEVADA, DATED SEPTEMBER 27, 2002, THE SITE LIES WITHIN A FEMA DESIGNATED ZONE "X". A ZONE "X" IS DESCRIBED AS AREAS DETERMINED TO BE OUTSIDE OF THE 500-YEAR FLOODPLAIN

DISCLAIMER NOTE
EXISTING UTILITY LOCATIONS SHOWN HEREIN 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 DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-227-2600.

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT (USA)

Call before you OVERHEAD
1-702-593-6111
NEVADA POWER DIVISION SAFETY SERVICE DEPARTMENT

NOTE: ALL ON-SITE STORM DRAINS ARE PRIVATELY OWNED AND MAINTAINED.

Call before you Dig.
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
1-702-223-6811
LAS VEGAS AREA COMPLETED TRAFFIC SYSTEM

BASIS OF BEARING
THE LINE BETWEEN THE INTERSECTION OF THE CENTERLINES OF REGAL MESA AVENUE AND THE CENTERLINE OF SILVER CASTLE STREET AND THE NORTHEASTLY END OF SILVER CASTLE STREET (7.5' FROM THE CENTER OF THE CUL-DE-SAC) WAS TAKEN AS N04°07'32"E, AS CALCULATED FROM THE MAP OF CHARDONNOY No. 41 - BY LEWIS HOMES PER MAP IN BOOK 80 OF PLATS AT PAGE 47, CLARK COUNTY NEVADA RECORDS.

LEGAL DESCRIPTION
LOT 6, BLOCK B OF THE ARBORS AT SUMMERLIN VILLAGE 11/2 NO. 2A AS RECORDED IN BOOK 75 OF PLATS PAGE 75 FOUND IN THE RECORDERS OFFICE OF CLARK COUNTY, NEVADA.

BENCHMARK
PROJECT VERTICAL DATUM: NAVD83
CITY OF LAS VEGAS B.M. 01009 38W15
NAVD83 ELEV. 927.9652 METERS (3044.50 FEET)
RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER OF PAILION CENTER AND GREENWOOD CITY OF LAS VEGAS, NEVADA

WRIGHT Engineering
7425 PEAK DRIVE LAS VEGAS, NEVADA 89128
P. 702.735.1111
WWW.WRIGHTENGINEERS.COM
LAS VEGAS, IRVINE, PHOENIX, SACRAMENTO

REV	DATE	BY	REVISION
8-1-12			REVISE CURB ALIGNMENT & GRADES

JOSEPH N. BRANCA ARCHITECT
2821 CHANNEL BAY DRIVE
LAS VEGAS, NEVADA 89127
TEL. (702) 266-0663 FAX (702) 266-3002

JOSEPH N. BRANCA ARCHITECT
DSUMC EXPANSION

GRADING PLAN

DATE: 11/16/10
DRAWN BY: RDC
PROJECT MGR: RDC
PROJECT NO: CN100298
SCALE: AS SHOWN

JOHN M. WALKER
11/23/14
CIVIL
CLARK COUNTY TRAFFIC OPERATIONS
NO. 12779

AUG 16 2012

SHEET
GP2
6 OF 8 SHEETS
DRAWING NO.