DS #: 5307

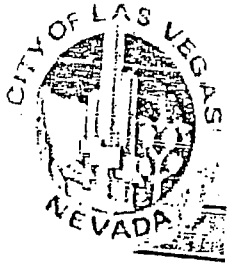
APN: 126.12.610-002

PROJECT: Skye Canyon Parcel 2.10

SUBMITTAL: 2nd

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: November 12, 2020
TO: **Land Development Services** Department of Building & Safety			FROM: Jennifer Shinn, P.E. Flood Control, Engr. Associate Department of Public Works
SUBJECT:	Drainage Study for:		**COPIES TO:**
Skye Canyon Parcel 2.10			Westwood Professional Services
Cross Streets:	Shaumber Rd & Skye Canyon Park Dr		Century Communities
File Number:	F:\Depot\DSMemos\DS05307B.doc		Bart Anderson, P.E., DevCo
Parcel Number:	126-12-610-002		
Zoning Action:	TMP-78708, MOD078707		
FEMA Flood Zone	YES	NO **X**	
Proposed Storm Drain	YES **X**	NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1st Submittal	7/29/2020	8/20/2020	See Comments Below	$400.00	3931436: $400
2nd Submittal	10/13/2020	11/12/2020	Approved	$400.00	4030978: $400
			TOTAL FEES (LDDRS):	**$800.00**	----

REMARKS:

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.

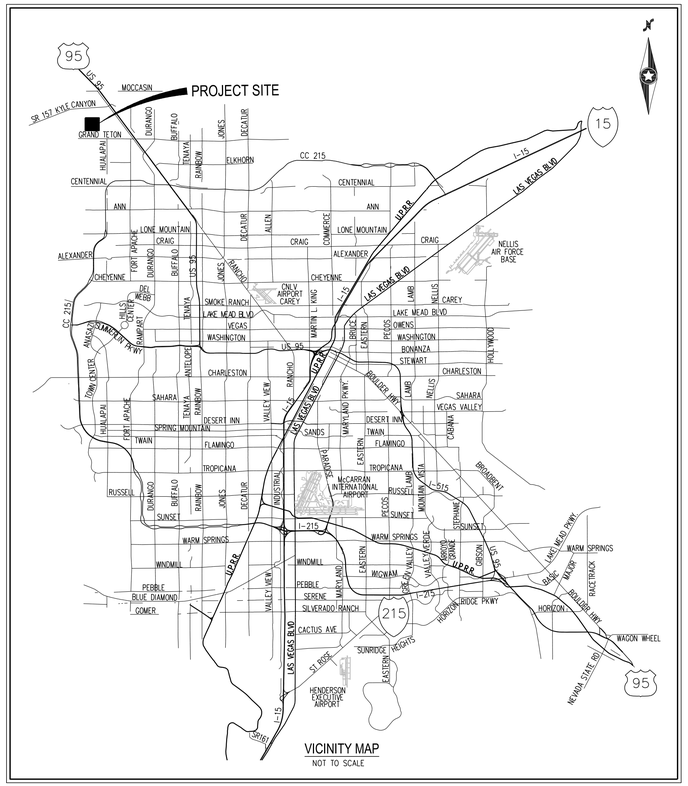
1. All storm drain inlets that are more than 10'-deep (e.g. SDDI #6) require a special structural detail and calculations. Submit structural design and calculations to City Building & Safety Department for review and approval prior to the final approval of the drainage study.
2. Provide section callouts for Lots 308 and 335 to show solid grouted walls along the adjacent streets. Include TC grades along the adjacent street to verify extents of flood protection.
3. Provide a cross section detail across the public drainage easement proposed in the northeast corner of the site.
4. Public drainage easements, including access control, shall be constructed per CCAUSD 425.S1.

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.

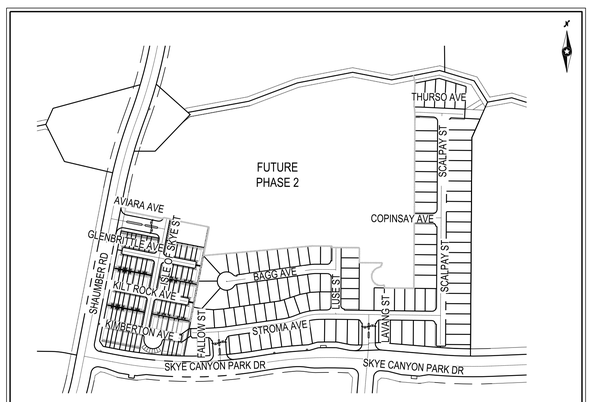
NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained 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
JKS

T/R/S: T19S/R59E/S12
AREA F-12



VICINITY MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE

CENTURY COMMUNITIES

IMPROVEMENT PLANS FOR SKYE CANYON 2.10 - PHASE 1

CITY OF LAS VEGAS, NEVADA
RESIDENTIAL SUBDIVISION
APN:126-12-610-002

CITY OF LAS VEGAS NEVADA

Sheet List Table

NO.	SHEET	TITLE
1	C-1	COVER SHEET
2	C-2	STANDARD NOTES
3	C-3	QUANTITIES & LEGEND
4	G-1	GRADING PLAN I
5	G-2	GRADING PLAN II
6	G-3	GRADING PLAN III
7	G-4	GRADING PLAN IV
8	G-5	GRADING PLAN V
9	G-6	GRADING PLAN VI
10	G-7	GRADING PLAN VII
11	G-8	GRADING PLAN VIII
12	G-9	GRADING PLAN IX
13	G-10	GRADING PLAN X
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15	D-1	DETAIL SHEET I
16	D-2	DETAIL SHEET II
17	D-3	DETAIL SHEET III
18	SD-1	PLAN AND PROFILE - STORM DRAIN MAIN
19	SD-2	PLAN AND PROFILE - NORTH & SOUTH SD LATERAL

APPROVALS

CITY OF LAS VEGAS ENGINEER APPROVAL

LAS VEGAS FIRE AND RESCUE — DATE

CITY OF LAS VEGAS PLANNING DEPARTMENT

CENTRAL TELEPHONE CO. DBA CENTURYLINK — DATE

THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUES AND / OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. ###### FIRST APPROVED DATE:
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 20 GPM

SHEETS: ADD FIELD

NV ENERGY — DATE

NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION — DATE

COX COMMUNICATIONS LAS VEGAS, INC. — DATE

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
COVER SHEET

S12
T19
R59

OWNER/DEVELOPER

CENTURY COMMUNITIES OF NEVADA, LLC
6345 SOUTH JONES BLVD.
LAS VEGAS, NV 89118
PH: (702) 873-5338
CONTACT: PAUL KENNER

ENGINEER

WESTWOOD PROFESSIONAL SERVICES, INC.
5740 S. ARVILLE STREET, SUITE 216
LAS VEGAS, NV 89118
PH: (702) 284-5300
FX: (702) 284-5399
CONTACT: KEVIN M. BROSS

LEGAL DESCRIPTION

A PORTION OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

BENCHMARK

BENCHMARK NUMBER: USDA1934

U.S. DEPARTMENT OF AGRICULTURE BRASS DISC AT THE SOUTHWEST CORNER OF U.S. 95 AND KYLE CANYON ROAD.

ELEVATION = 2817.61 FEET, 858.81 METERS
N.A.V.D. 88 DATUM

PER THE CITY OF LAS VEGAS VERTICAL CONTROL WEBSITE

BASIS OF BEARINGS

SOUTH 00°34'18" EAST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 157, PAGE 41 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 500 YEAR FLOODPLAIN), PER THE FEMA FIRM PANELS 32003C1750E DATED SEPTEMBER 27, 2002

PROJECT INFORMATION - OVERALL

ACREAGE (GROSS):	= 41.27 AC
ACREAGE (NET):	= 41.27 AC
DENSITY (LOTS/NET ACRE):	= 8.55 DU/NET AC
ZONING:	= T-D
TOTAL NO. OF RESIDENTIAL LOTS	= 353 SFR: 220 TOWNHOUSES: 133
TOTAL NO. OF COMMON ELEMENTS *	= 19
MINIMUM LOT SIZE	= 1,282 SF±
MAXIMUM LOT SIZE	= 8,934 SF±
PROVIDED OPEN SPACE	= 80,582 SF±

EARTHWORK SUMMARY (UNADJUSTED)

CUT	162,638 CY.
FILL	53,941 CY.
NET	108,697 CY. (CUT)

PROJECT INFORMATION - PHASE 1

ACREAGE (GROSS):	= 22.43 AC
ACREAGE (NET):	= 22.43 AC
DENSITY (LOTS/NET ACRE):	= 8.51 DU/NET AC
ZONING:	= T-D
TOTAL NO. OF RESIDENTIAL LOTS	= 191 SFR: 110 TOWNHOUSES: 81
TOTAL NO. OF COMMON ELEMENTS *	= 12
MINIMUM LOT SIZE	= 1,282 SF±
MAXIMUM LOT SIZE	= 8,934 SF±
PROVIDED OPEN SPACE	= 53,121 SF±

EARTHWORK SUMMARY (UNADJUSTED)

CUT	161,549 CY.
FILL	54,402 CY.
NET	107,147 CY.

DEVIATIONS FROM STANDARDS

NONE

SWPPP NOTE

NOTE: ALL LAND SURFACE AREA DISTURBANCES OVER 1 ACRE REQUIRE A STORMWATER DISCHARGE PERMIT ISSUED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP). A PHASED CONSTRUCTION UNIT IN A CONTIGUOUS SUBDIVISION IS CONSIDERED UNDER CONSTRUCTION UNTIL ALL STRIPPED SURFACE AREAS HAVE BEEN COVERED BY PAVING, BUILDING CONSTRUCTION OR PLANTING. A STORMWATER DISCHARGE PERMIT APPLICATION AND ASSOCIATED INFORMATION MAY BE DOWNLOADED FROM THE WEB SITE: HTTP://WWW.STATE.NV.US/BWPC/STORM01.HTM PROJECTS THAT DISTURB MORE THAN ONE ACRE OF LAND MUST SUBMIT TO NDEP A "NOTICE OF INTENT" FOR INCLUSION UNDER STORMWATER PERMIT NO. NVR100000 ALONG WITH THE APPROPRIATE FILLING FEE.

GEOTECHNICAL ENGINEER

PREPARED BY: GEOTEK RESIDENTIAL, LLC
ADDRESS: 6835 SOUTH ESCONDIDO STREET, SUITE B LAS VEGAS, NEVADA 89119
PHONE: (702) 897-1424 PROJECT No. 12203.3BC-LVR
DATED: 07/01/2020

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

FAST
Call before you
UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T)

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
1-800-227-2600

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
Lic. No. 24573
Lic. Exp. 12/31/2020
CIVIL
10/13/2020

C-1
SHEET 1 OF 19

J:\cen1909-00 skye canyon parcel 2.10\dwg\improv\phase 1\cen1909civ - date 10/13/2020 1:09 PM Lokelo Abot

STORMWATER RUNOFF MANAGEMENT

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT ,MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

LEGAL DESCRIPTION

A PORTION OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST,
M.D.M, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

BENCHMARK

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SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRICAL SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
   A) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099

CAUTION: HIGH PRESSURE GAS

CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

SOUTHWEST GAS APPROVAL

SOUTHWEST GAS CORPORATION DATE

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y"'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # ###### (REVISED 08/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

    ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

GRADING NOTES

1. INDICATED GRADES OTHER THAN T.C., F.G. & GUTTER F.L. ARE ROUGH GRADES.
2. THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
3. CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
4. ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.1' OF THE PAD ELEVATIONS SHOWN ON THE PLANS. WHEN GRADING IS COMPLETE PER THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE LOTS CAN BE INSPECTED. AT THAT TIME THE ENGINEER SHALL ALSO DECIDE IF ANY ADDITIONAL DITCHES OR BERMS ARE REQUIRED. THE CONTRACTOR IS REQUESTED NOT TO REMOVE ANY OF HIS ROUGH GRADING EQUIPMENT UNTIL HE RECEIVES GRADING APPROVAL FROM THE ENGINEER.
5. SOILS REPORT PREPARED BY GEOTEK RESIDENTIAL, LLC, PROJECT NO. 12203.3BC-LVR, DATED 07/01/2020.
6. EARTHWORK QUANTITIES (RAW):
   -CUT = 161,549 CUBIC YARDS
   -FILL = 54,402 CUBIC YARDS

   A) THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
   B) THE ABOVE QUANTITIES DO REFLECT USING NATIVE MATERIAL IN LIEU OF TYPE I GRAVEL BASE MATERIAL FOR STREET SECTIONS.
   C) THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.

CITY OF LAS VEGAS FIRE AND RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S – APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 3312
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. IFC § 106.3
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC § 507
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC § 507
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102
    - RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.10
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.4
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. IFC § 503.2.3
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 8% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 503.2.7, § 503.2.8
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. NOT LESS THAN 28 FT WDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD- ENDS OR A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. IFC § 503.3
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. IFC § 503.6
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL	COMPACTION
A.PAVEMENT AREA SUBGRADE	0.1'+	+0.0' TO -0.1'	SEE SOILS REPORT
B.ENGINEERED FILL	0.5'+	+0.1' TO -0.1'	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

UTILITY LOCATION NOTE TO CONTRACTOR

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 LOCATIONS. CALL BEFORE YOU DIG: 1 (800) 227-2600; SOUTHWEST GAS CORPORATION: 702-278-8451 (STANDBY CONTACT NUMBER)

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300'IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROV

ABBREVIATIONS

AC	ASPHALTIC CONCRETE OR ACRE	FL	FLOWLINE	PVI	POINT OF VERTICAL INTERSECTION
AGG	AGGREGATE BASE	FT	FEET OR FOOT	QTY	QUANTITY
APN	ASSESSORS PARCEL NUMBER	FUT	FUTURE	R	RADIUS
APPROX OR ~	APPROXIMATE	GRD	GRADE OR GROUND	RCA	REINFORCED CONCRETE ARCH
AVE	AVENUE	GB	GRADE BREAK OR GRADE CHANGE	RCB	REINFORCED CONCRETE BOX
@	AT	GV	GATE VALVE	RCP	REINFORCED CONCRETE PIPE
BC	BEGIN CURVE OR BACK OF CURB	HDPE	HIGH DENSITY POLYETHYLENE	RD	ROAD
BCR	BEGINNING OF CURB RETURN	HOA	HOME OWNERS ASSOCIATION	RDWY ESMT	ROADWAY EASEMENT
BHW	BOTTOM OF HEADWALL	HORZ	HORIZONTAL	REQD	REQUIRED
BLDG	BUILDING	HP	HIGH POINT	REV	REVISION
BLVD	BOULEVARD	HWL	HIGH WATER LEVEL	RG	ROUGH GRADE
BM	BENCHMARK	HDWL OR HW	HEADWALL	RT OR R	RIGHT
BVC	BEGIN VERTICAL CURVE	HYD	HYDRAULIC OR HYDRANT	RW, ROW	RIGHT OF WAY
BWV	BACK WATER VALVE	ID	INSIDE DIAMETER	S	SLOPE
CC	CLARK COUNTY	IN	INCH	SCH	SCHEDULE
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS	INT	INTERSECTION	SD	STORM DRAIN
CCPW	CLARK COUNTY PUBLIC WORKS	INV	INVERT ELEVATION	SDDI	STORM DRAIN DROP INLET
CCRFCD	CLARK COUNTY REGIONAL FLOOD DISTRICT	IP	IRON PIPE	SDMH	STORM DRAIN MANHOLE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	IRRG	IRRIGATION	SEC	SECTION
CE	COMMON ELEMENT	LF	LINEAR FEET	SF	SQUARE FEET
CL/C/L/C	CENTERLINE	LMC	LANDSCAPE MAINTENANCE CORPORATION	SHT	SHEET
CLR	CLEAR OR CLEARANCE	LP	LOW POINT	SLTC	STREET LIGHT & TRAFFIC CONTROL ESMT
CLSM	CONTROLLED LOW STRENGTH MATERIAL	LT OR L	LEFT	SNWA	SOUTHERN NEVADA WATER AUTHORITY
CLV	CITY OF LAS VEGAS	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	SPECS	SPECIFICATIONS
CML&C	CEMENT MORTAR LINED AND COATED	LWL	LOW WATER LEVEL	ST	STREET
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM	SSMH	SANITARY SEWER MANHOLE
CNLV	CITY OF NORTH LAS VEGAS	MECH	MECHANICAL	STA	STATION
COH	CITY OF HENDERSON	MH	MANHOLE	STD	STANDARD
CONC	CONCRETE	MIN	MINIMUM	STL	STEEL
CT	COURT	MISC	MISCELLANEOUS	STLT	STREET LIGHT
CY OR CU YD	CUBIC YARD	MUE	MUNICIPAL UTILITY EASEMENT	SW	SIDEWALK
DCWCS	DESIGN AND CONSTRUCTION FOR WASTEWATER COLLECTION SYSTEMS	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	SWG	SOUTHWEST GAS
		NTS	NOT TO SCALE	SWR OR SS	SANITARY SEWER
DE	DRAINAGE EASEMENT	NUE	NONEXCLUSIVE UTILITY EASEMENT	SY	SQUARE YARD
DET	DETAIL	NVE	NV ENERGY	TAN	TANGENT
DI	DUCTILE IRON OR DRAIN INLET	OC	ON CENTER	TC	TOP OF CURB
DIA, Ø	DIAMETER	OD	OUTSIDE DIAMETER OR OVERALL DIMENSION	TF	TOP OF FLOOR OR TOP OF FOOTING
DIP	DUCTILE IRON PIPE	OFF	OFFSET	TG	TOP OF GRATE
DR	DRIVE	ORIG	ORIGINAL	THRU	THROUGH
DWG(S)	DRAWING	PAE	PUBLIC OR PEDESTRIAN ACCESS EASEMENT	THW	TOP OF HEADWALL
DWY	DRIVEWAY	PB	PULL BOX	TP	TOP OF PIPE
EA	EACH	PC	POINT OF CURVE	TW	TOP OF WALL
ECR	END CURB RETURN	PCC	POINT OF COMPOUND CURVE	TRW	TOP OF RETAINING WALL
EG	EXISTING GROUND	PDE	PUBLIC DRAINAGE EASEMENT	TSW	TOP OF SCREEN WALL
ELEV	ELEVATION	P, OR PL	PROPERTY LINE	TYP	TYPICAL
ESMT	EASEMENT	POB	POINT OF BEGINNING	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
EP	EDGE OF PAVEMENT	POC	POINT OF CURVATURE		
ERU	EQUIVALENT RESIDENTIAL UNIT	POE	POINT OF ENDING	UE	UTILITY EASEMENT
EVC	END VERTICAL CURVE	PRC	POINT OF REVERSE CURVATURE	VC	VERTICAL CURVE
EX OR EXIST	EXISTING	PRELIM	PRELIMINARY	VERT	VERTICAL
FC	FACE OF CURB	PROP	PROPOSED	VG	VALLEY GUTTER
FF	FINISHED FLOOR	PRV	PRESSURE REDUCING VALVE	WI	WROUGHT IRON
FG	FINISHED GRADE	PUE	PUBLIC UTILITY EASEMENT	WL	WATER LINE
FGH	FINISHED GRADE, HIGH SIDE	PT	POINT OF TANGENT OR POINT	WPZ	WATER PRESSURE ZONE
FGL	FINISHED GRADE, LOW SIDE	PVC	POLYVINYL CHLORIDE	WT	WEIGHT
FH	FIRE HYDRANT			WTR	WATER LINE

SPECIAL NOTE

IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED WHICH IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY OF LAS VEGAS DEPT. OF PUBLIC WORKS. TEMPORARY CONSTRUCTION ITEMS INCLUDE: PAVEMENT TRANSITIONS, PROTECTIVE DITCHES AND BERMS, ROAD SIGNS AND BARRICADES, ETC.

NOTICE TO CONTRACTOR

-QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.

-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 LOCATIONS. CALL BEFORE YOU DIG: (800) 227-2600

LEGEND

EXISTING	PROPOSED	DESCRIPTION
(1900)	1900	5' CONTOUR
		1' CONTOUR
		STRIPING
		SEWER MANHOLE
		CURB AND GUTTER
EX 8" PVC SS	8" PVC SS	SANITARY SEWER PIPE AND FLOW ARROW
EX 8" PVC WTR	8" PVC WTR	WATER PIPE
		WATER GATE VALVE
		FIRE HYDRANT
		WATER BLOW-OFF
		WATER LATERAL W/ METER
		SANITARY SEWER LATERAL
		STREETLIGHT
		EDGE OF PAVEMENT
		TRAFFIC SIGN
PAD= XXX.X FF = XXX.X	PAD= XXX.X FF = XXX.X	PAD ELEVATION FINISHED FLOOR ELEVATION
(00.00) TC	00.00 TC	ELEVATION
		RETAINING WALL
		STORM DRAIN W/ MANHOLE
		EXISTING GAS GATE VALVE
		EXISTING UNKNOWN MANHOLE
GAS		EXISTING GAS, SIZE PER PLAN
		EXISTING POWER POLE
XXXX		EXISTING TRAFFIC SIGNAL
		EXISTING WALL
		WATER PIPE FITTING
POC		WATER POINT OF CONNECTION
POC		SEWER POINT OF CONNECTION
		DAYLIGHT LINE
		STREET CENTERLINE
		RIGHT-OF-WAY
		MATCHLINE
		BOUNDARY LINE
		PHASE LINE
		PROPERTY LINE
		FLOWLINE
		SAWCUT
FILL / CUT		CUT/FILL TRANSITION LINE
		SIDEWALK
		EX STRIPING TO BE OBLITERATED
		GRADE BREAK LINE
		REFLECTIVE RAISED PAVEMENT MARKERS
BWV		BACK WATER VALVE
		WROUGHT IRON FENCE
		PONY WALL
		DECORATIVE PERIMETER WALL
		DECORATIVE PERIMETER RETAINING WALL
		PROPOSED CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
		EXISTING CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
		FUTURE CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
		PROPOSED SCARP AREA
		DRIVEWAY
		PROPOSED RIP RAP
		SIGHT VISIBILITY ZONE PER STD DWG NO. 201.2
		HANDICAP RAMP

QUANTITIES

			PRIVATE	PUBLIC
DRAINAGE				
1.	48" TYPE III STORM DRAIN MANHOLE	EA	2	–
2.	5.0' TYPE "CM2" DROP INLET	EA	–	–
3.	10.0' TYPE "CM2" DROP INLET	EA	–	–
4.	12.5' TYPE "CM2" DROP INLET	EA	2	–
5.	24" RCP CLASS I STORM DRAIN	LF	–	8
6.	24" RCP CLASS II STORM DRAIN	LF	–	56
7.	30" RCP CLASS II STORM DRAIN	LF	–	192
8.	36" RCP CLASS III STORM DRAIN	LF	–	63
9.	42" RCP CLASS III STORM DRAIN	SF	–	75
10.	RIPRAP D50=8", THK=16"	SF	1,145	–
11.	RIPRAP D50=12", THK=24"	SF	300	–
12.	8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE I AGGREGATE BASE	SF	7,675	–
13.				
SEWER SYSTEM				
1.	4" PVC SEWER LATERAL (PRIVATE)	LF	–	–
2.	8" PVC SEWER PIPE (PUBLIC)	LF	–	–
3.	STANDARD 48" SEWER MANHOLE (PUBLIC)	EA	–	–
4.	8" SEWER PIPE CAP	EA	–	–
5.	BACK WATER VALVE	EA	–	–
6.	8" C-900 WATER QUALITY SEWER PIPE (PUBLIC)	EA	–	–
7.				
WATER SYSTEM				
1.	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40	EA	–	–
2.	6" PVC WATER PIPE (CLASS 150)	LF	–	–
3.	8" PVC WATER PIPE (CLASS 150)	LF	–	–
4.	8" DIP WATER PIPE (CLASS 53)	LF	–	–
5.	8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	–	–
6.	8" X 6" TEE PER UDACS PLATE NO. 31	EA	–	–
7.	8" X 8" TEE PER UDACS PLATE NO. 31	EA	–	–
8.	8" 5 DEGREE BEND WITH RESTRAINED JOINTS	EA	–	–
9.	8" 11.25 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
10.	8" 22.5 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
11.	8" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
12.	8" 90 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
13.	CAP AND 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE NO. 36	EA	–	–
14.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 2	EA	–	–
15.	1" COPPER SERVICE W/ 1" METER PER UDACS PLATE NO. 4	EA	–	–
16.	1" COPPER SERVICE W/ 3/4" METER & 1" RPPA PER UDACS PLATE NO. 4 & 8	EA	–	–
		EA	–	
STREET IMPROVEMENTS				
1.	2" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	18,010	–
2.	STANDARD 18" TYPE "L" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	885	–
3.	STANDARD 8" TYPE "A" ISLAND CURB W/6" TYPE I AGGREGATE BASE	LF	534	–
4.	STANDARD 30" TYPE "ROLL" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	8,268	–
5.	5' WIDE CONCRETE SIDEWALK W/4" TYPE II AGGREGATE BASE	SF	1,770	–
6.	5' WIDE CONCRETE SIDEWALK W/5" TYPE II AGGREGATE BASE	SF	3,063	–
7.				
TRAFFIC SIGNALS				
1.	30" STOP SIGN WITH POST (R1-1)	EA	–	–
2.	9" STREET NAME SIGN (D-3, BROWN W/ WHITE LETTERS)(6 POLES x 2 PER POLE=12)	EA	–	–
3.	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	EA	–	–
4.	CROSSWALK MARKINGS	LF	–	–
5.				
6.				
7.				
8.				
DRY UTILITIES				
1.	100W H.P.S. LUMINAIRE STREET LIGHT W/DECORATIVE POLE	EA	–	–
2.	1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 CONDUCTORS	LF	–	–
3.	NO. 3-1/2 PULL BOX W/METAL COVER	EA	–	–
4.	150 AMP SERVICE PEDESTAL (IRR)	EA	–	–
5.	200 AMP SERVICE PEDESTAL (STLT)	EA	–	–
6.				

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. ###### FIRST APPROVED DATE: _____

Westwood
5740 S. Arville Street
Suite 215
Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.
				APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
QUANTITIES & LEGEND

S12
S15
R59

DATE: 10/7/20

DRAFTER: LBA

DESIGNER: LBA

CHECKED: KMB

PROJECT NO.
CEN1909

10/13/2020

C-3
SHEET 3 OF 19

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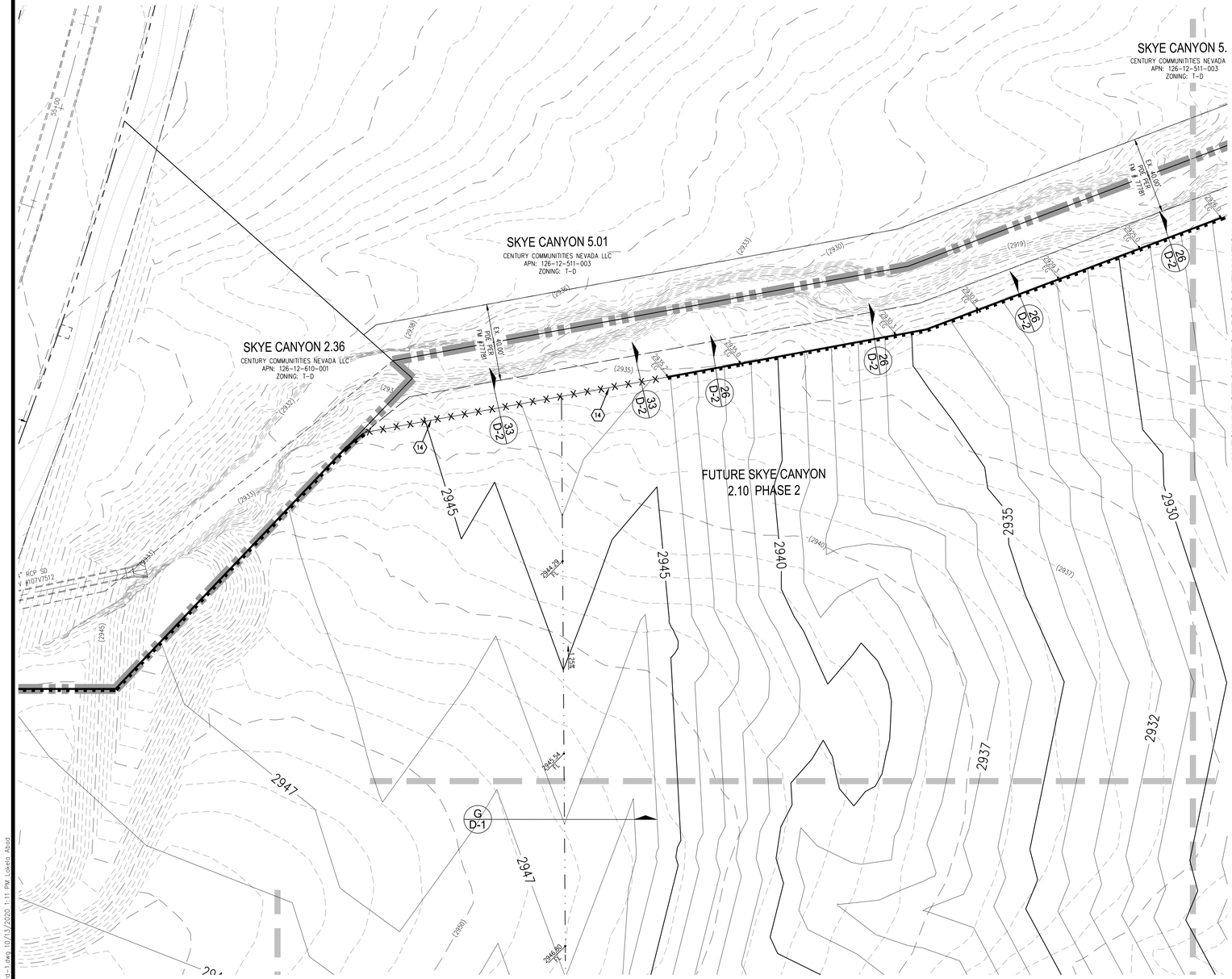
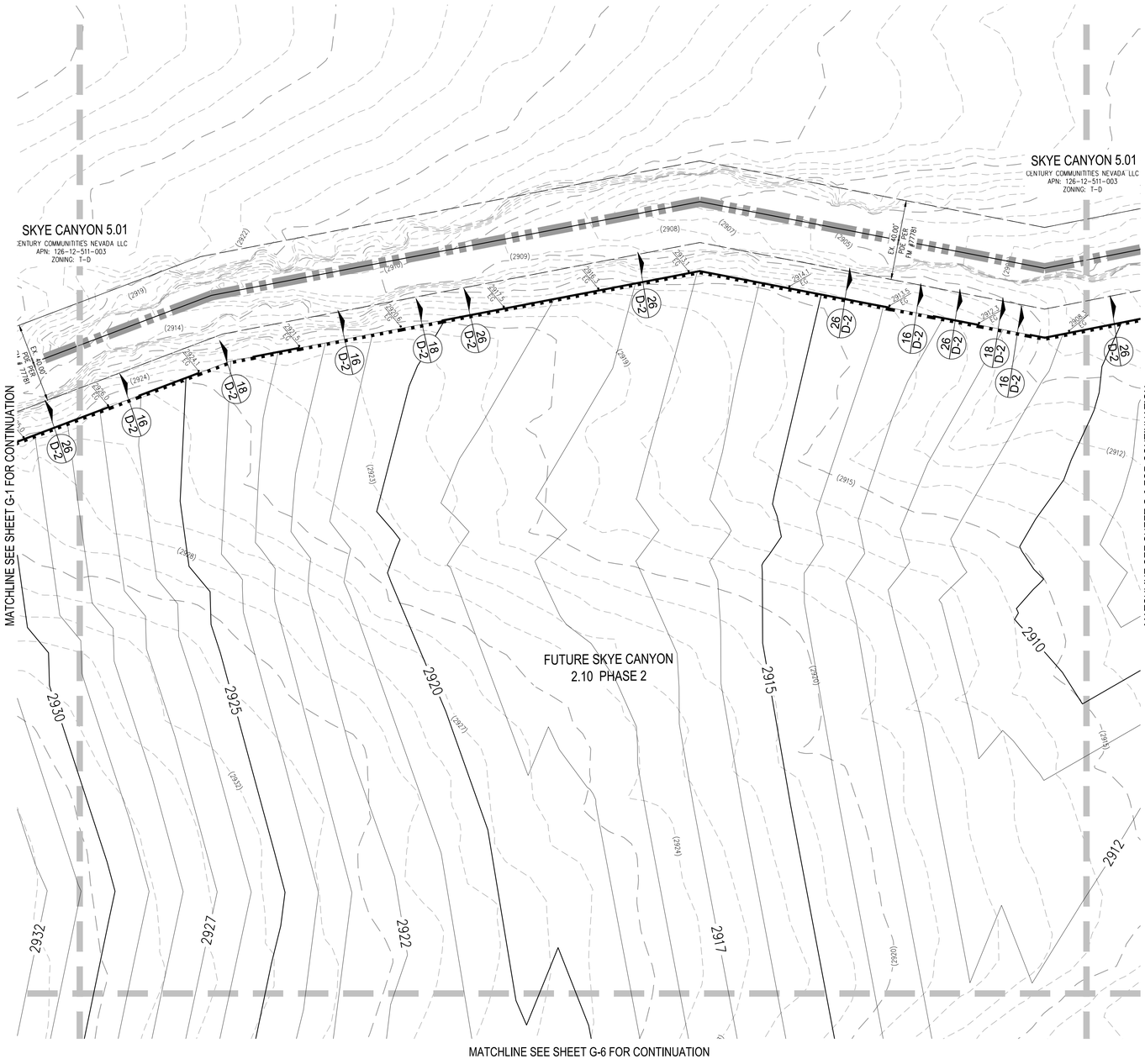
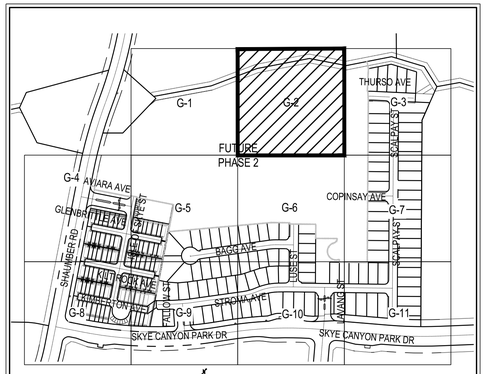

SKYE CANYON 5.
CENTURY COMMUNITIES NEVADA
APN: 126-12-511-003
ZONING: T-D
SKYE CANYON 5.01
CENTURY COMMUNITIES NEVADA LLC
APN: 126-12-511-003
ZONING: T-D
SKYE CANYON 2.36
CENTURY COMMUNITIES NEVADA LLC
APN: 126-12-610-001
ZONING: T-D
FUTURE SKYE CANYON
2.10 PHASE 2
EX. 8" WATER PIPE FM #1778
EX. 8" WATER PIPE FM #1778
EX. 8" WATER PIPE FM #1778





SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

1) 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 IN THEIR PROPER LOCATION.

2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
5. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
6. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
7. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
- SD3 INSTALL 36" CLASS III RCP STORM DRAIN
- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD8 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — DATE 10/13/2020

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE "CM-2" DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

Westwood
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN II

S:12 T:19 R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO. CEN1909

PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572
10/13/2020

G-2
SHEET 5 OF 19

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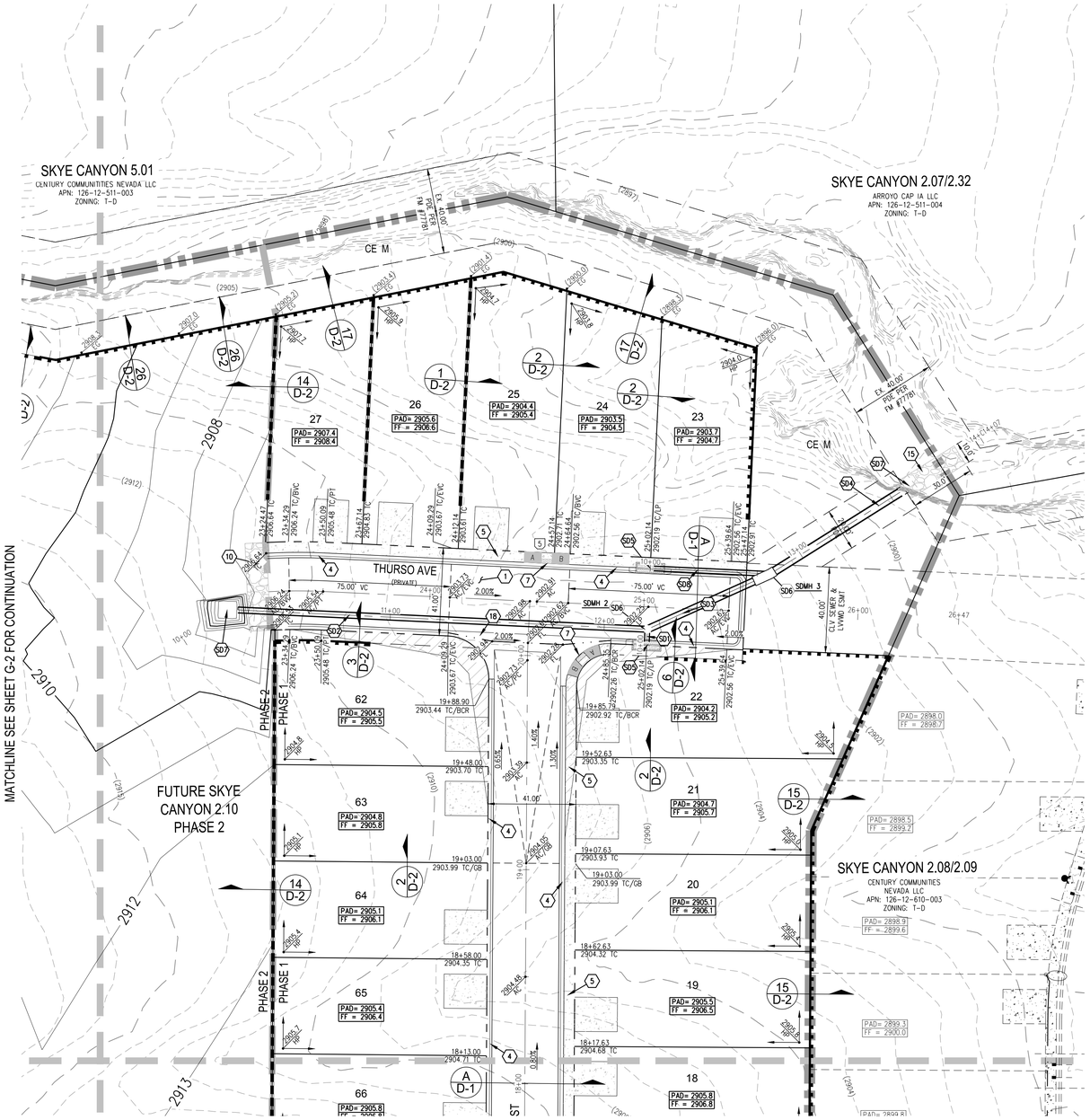

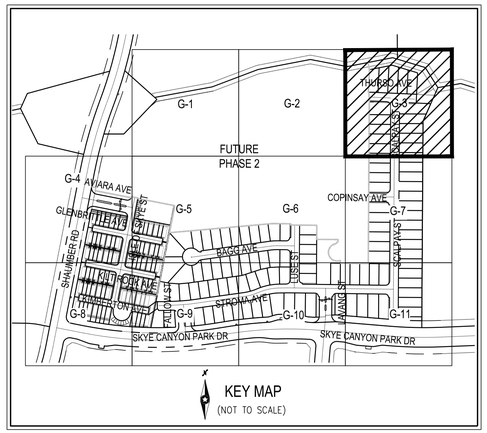

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SCALE - 1"=30' FEET

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

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2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

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8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

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3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
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FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
- SD3 INSTALL 36" CLASS III RCP STORM DRAIN
- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE 'CM2' DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
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PRIVATE STREET NOTE

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SURVEY NOTE

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FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE 'CM-2' DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN III

S16 T19 R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER STATE OF NEVADA — KEVIN M. BROSS — Exp. 12/31/2020 — CIVIL — No. 24572
10/13/2020

G-3
SHEET 6 OF 19

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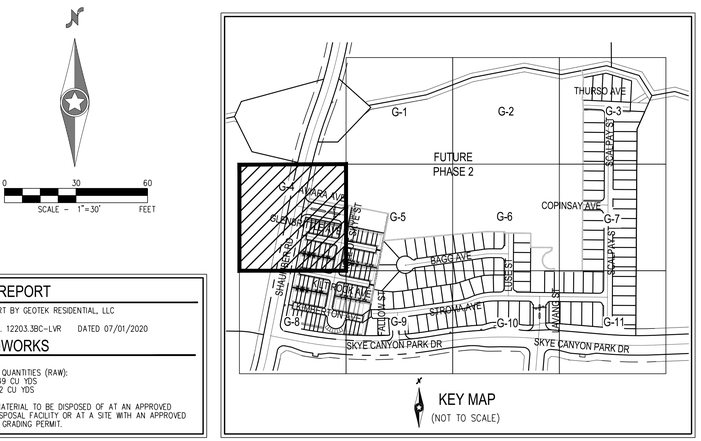

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SCALE – 1"=30' FEET

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

1) 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 IN THEIR PROPER LOCATION.

2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
5. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
6. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
7. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
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FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

SD1 INSTALL 24" CLASS I RCP STORM DRAIN
SD2 INSTALL 30" CLASS II RCP STORM DRAIN
SD3 INSTALL 36" CLASS III RCP STORM DRAIN
SD4 INSTALL 42" CLASS III RCP STORM DRAIN
SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
SD8 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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SURVEY NOTE

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KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE "CM-2" DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN IV

S12
T19
R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
No. 24572
Exp. 12/31/2020
CIVIL
10/13/2020

G-4
SHEET 7 OF 19

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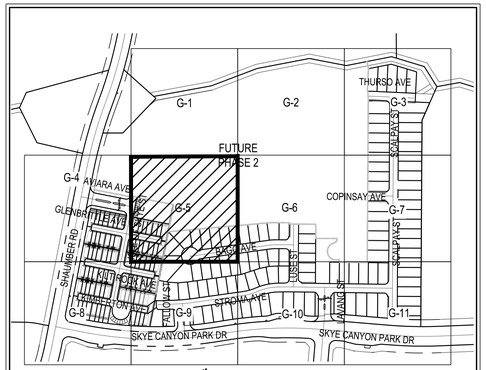

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KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN V

S:12
T:19
R:59

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PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
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10/13/2020

G-5
SHEET 8 OF 19

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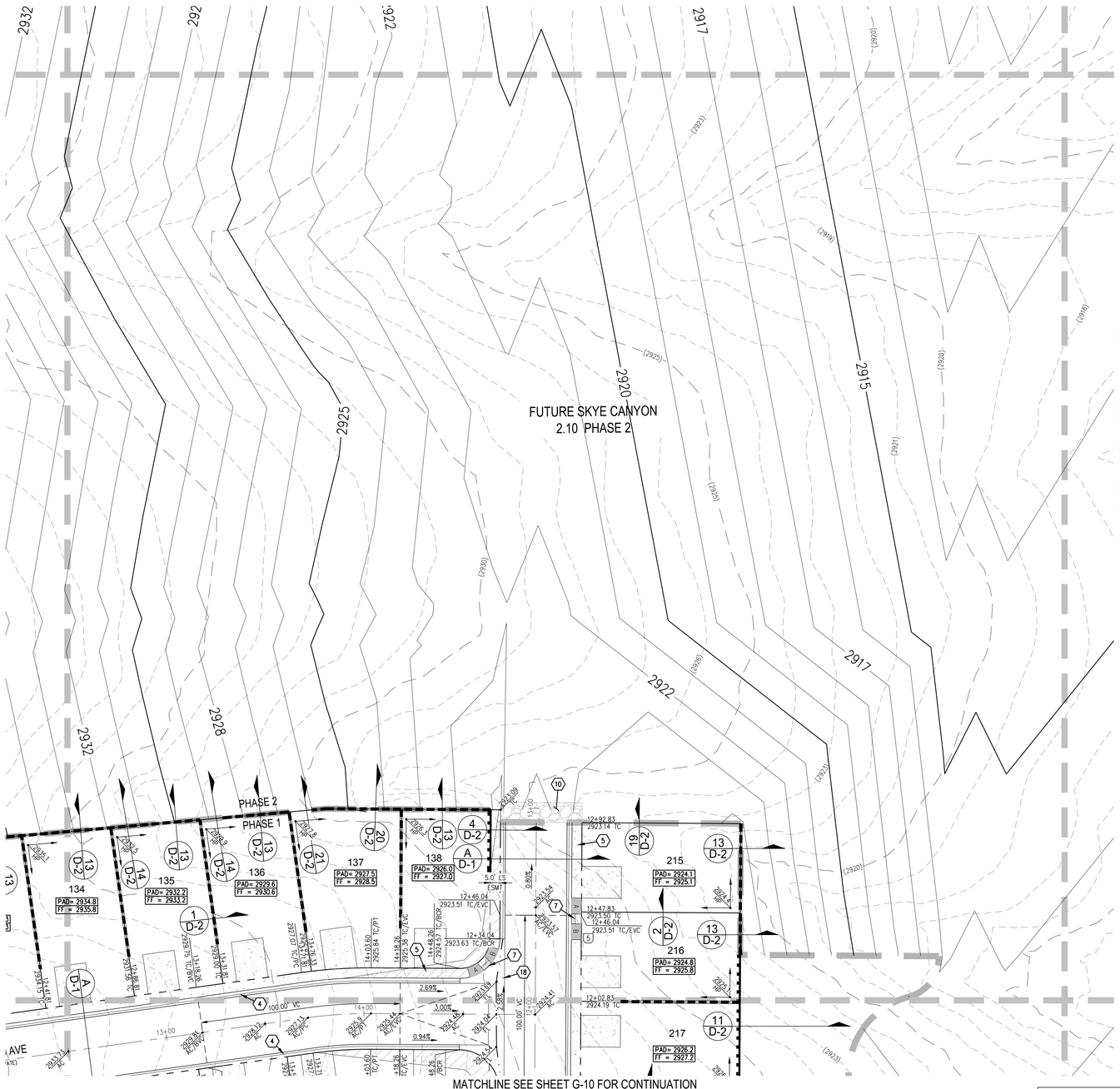

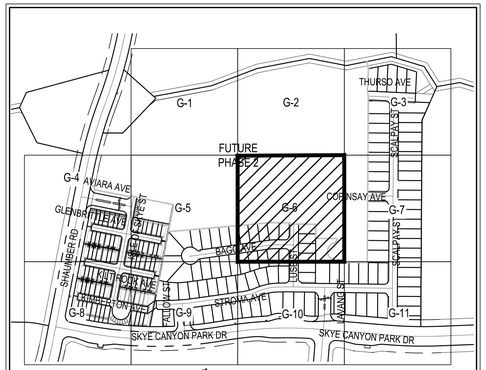

KEY MAP
(NOT TO SCALE)

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PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

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5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

S01. INSTALL 24" CLASS I RCP STORM DRAIN
S02. INSTALL 30" CLASS II RCP STORM DRAIN
S03. INSTALL 36" CLASS III RCP STORM DRAIN
S04. INSTALL 42" CLASS III RCP STORM DRAIN
S05. INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
S06. INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
S07. INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
S08. INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE "CM-2" DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN VI

S12
S13
R69

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572

10/13/2020

G-6
SHEET 9 OF 19

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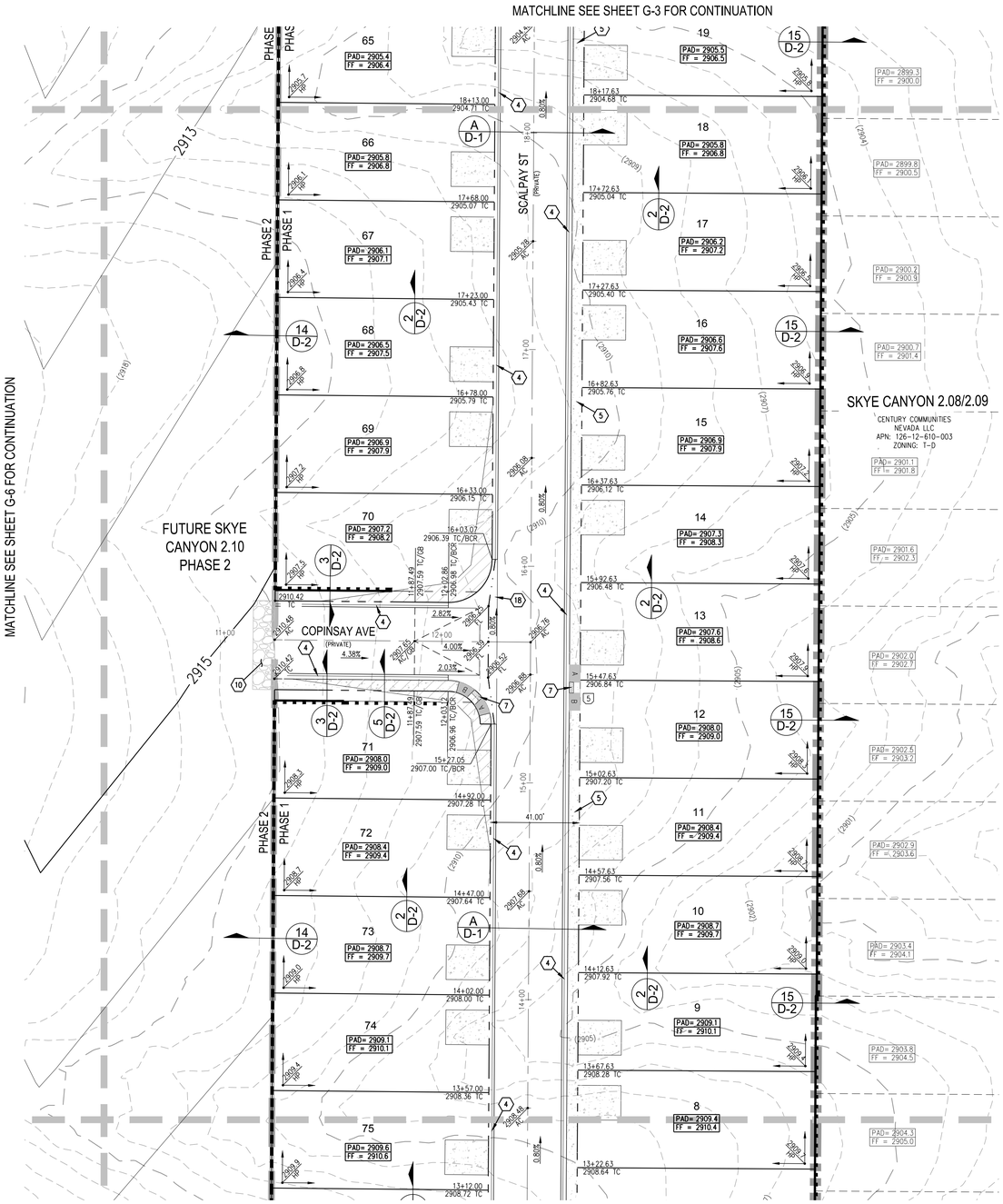

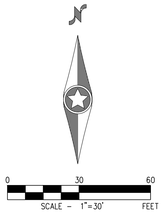

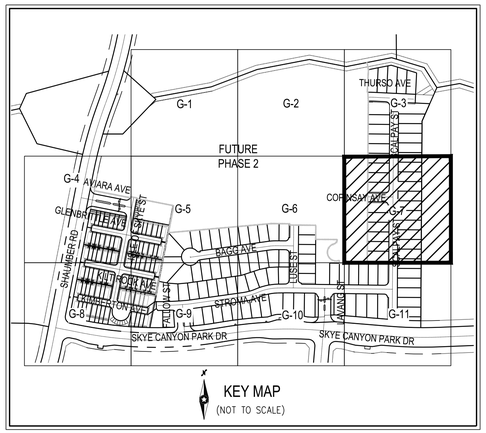

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

1) 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 IN THEIR PROPER LOCATION.

2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
5. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
6. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
7. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
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FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
- SD3 INSTALL 36" CLASS III RCP STORM DRAIN
- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE "CM-2" DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD8 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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SURVEY NOTE

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FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 245720 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE "CM-2" DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

Westwood
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Fax (702) 284-5399
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Suite 216
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westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN VII

S:12 T:21 R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
No. 24572
Exp. 12/31/2020
CIVIL
10/13/2020

G-7
SHEET 10 OF 19

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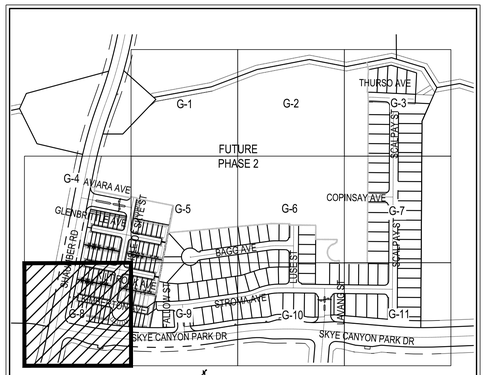

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

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GENERAL NOTES

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3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
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LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

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STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
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- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
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FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — 10/13/2020 (DATE)

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE "CM-2" DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
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Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN VIII

S:12 T:19 R:59

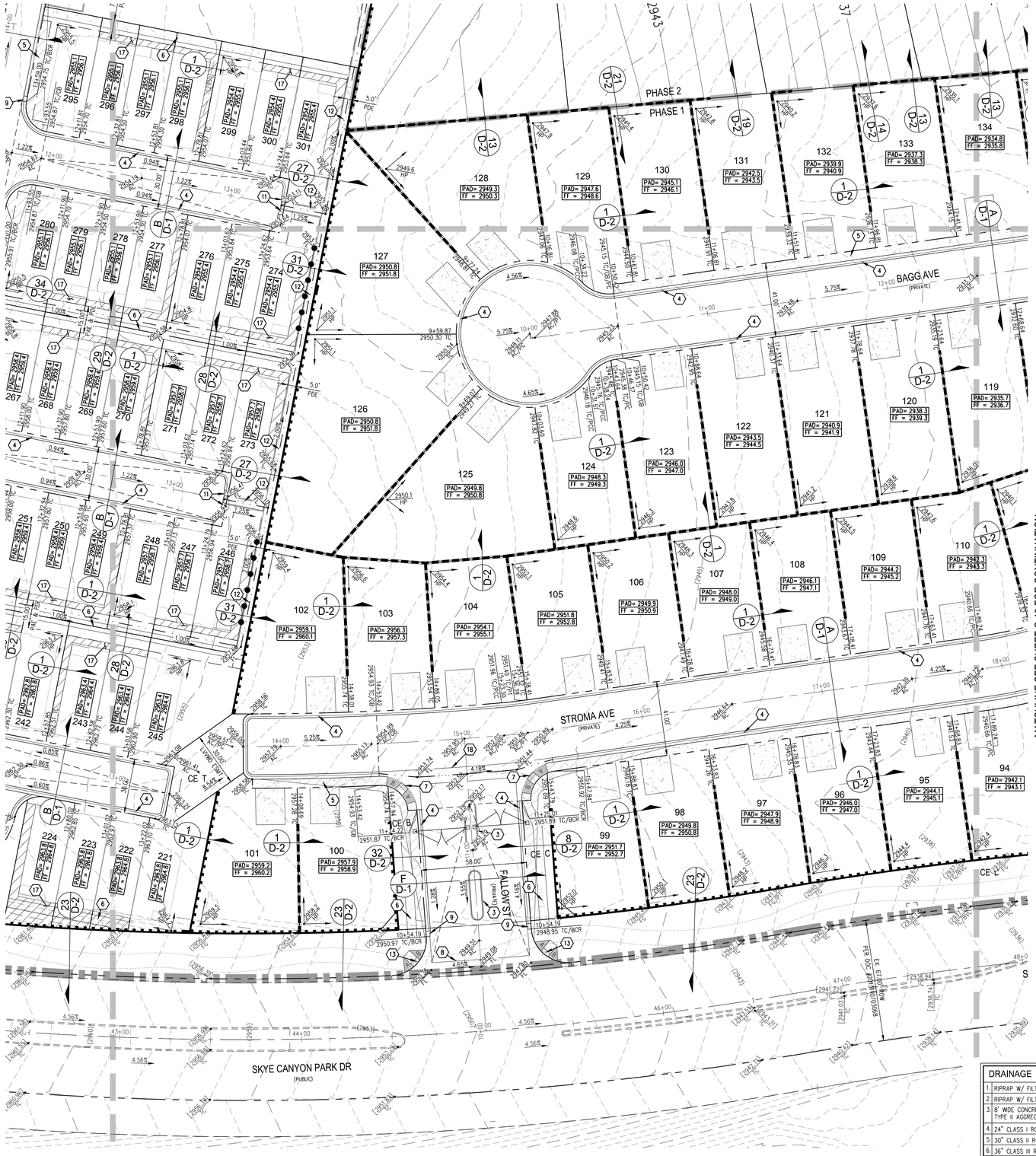
DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

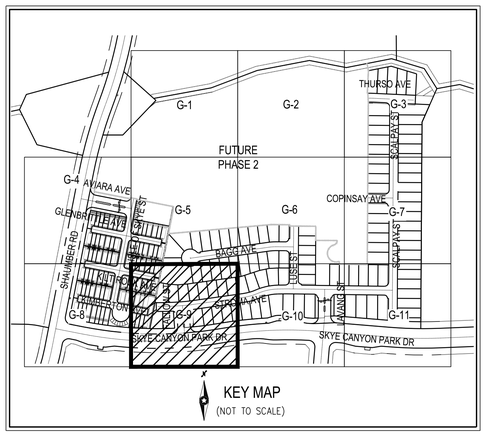
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572
10/13/2020

G-8
SHEET 11 OF 19

X:\cen1909-00 skye canyon parcel 2.10\dwg\Various Views\Cen1909grd-1.dwg 10/13/2020 1:12 PM Loeta Abad





SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

1) 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 IN THEIR PROPER LOCATION.

2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
5. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
6. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
7. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
- SD3 INSTALL 36" CLASS III RCP STORM DRAIN
- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD8 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

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FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
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6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE 'CM-2' DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

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Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP'D	DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN IX

S12 R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA – KEVIN M. BROSS – No. 24572 – Exp. 12/31/2020 – CIVIL

10/13/2020

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SHEET 12 OF 19

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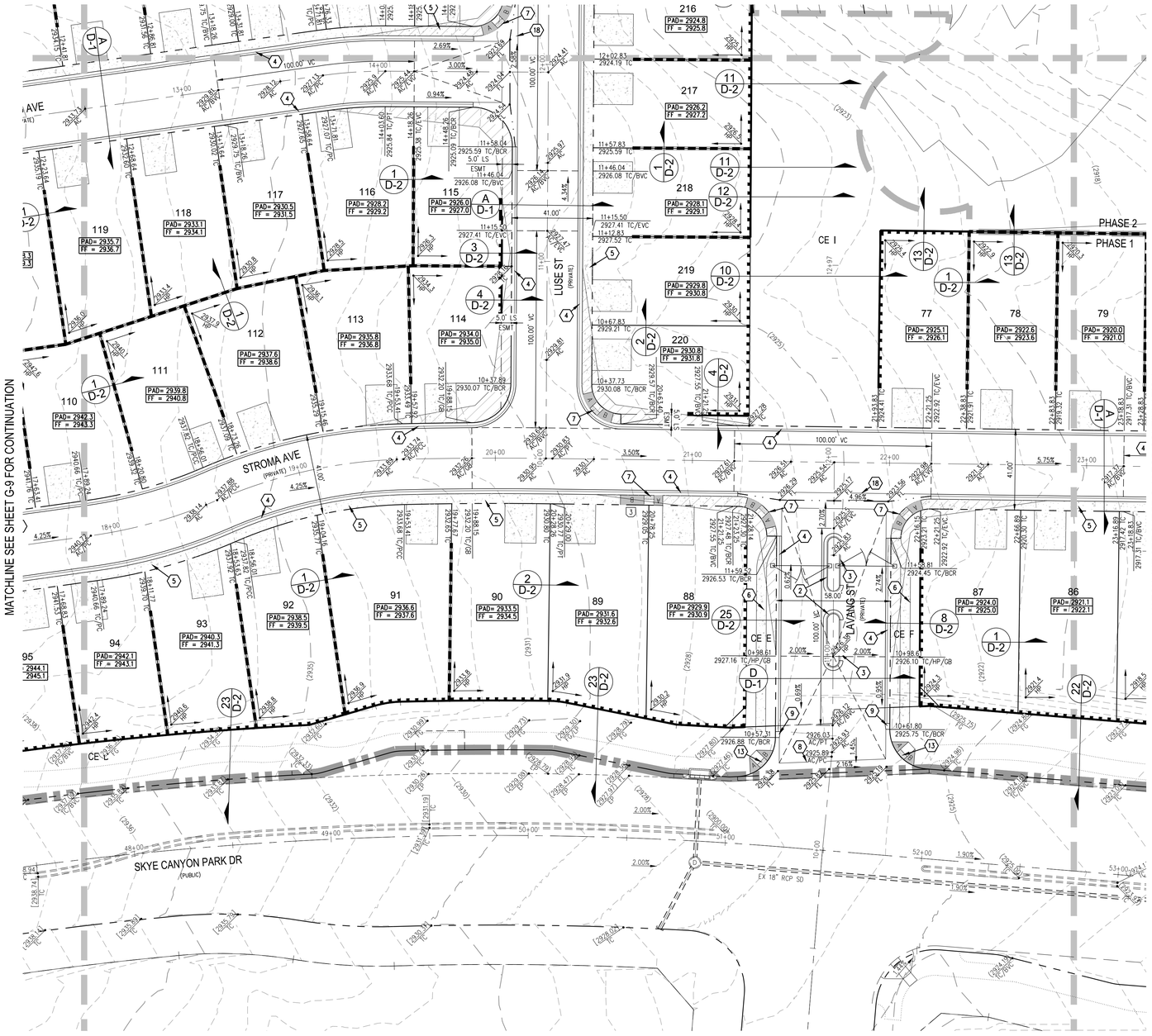

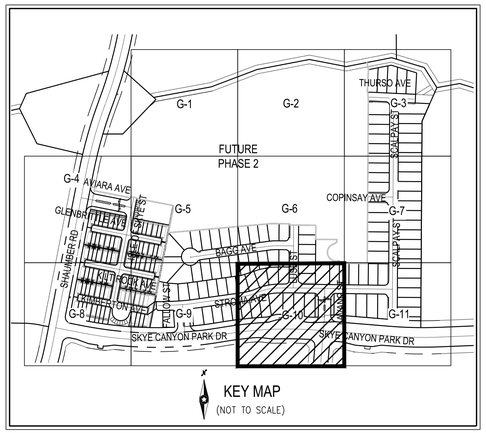

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
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LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

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3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
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8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
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12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
- SD3 INSTALL 36" CLASS III RCP STORM DRAIN
- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
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PRIVATE STREET NOTE

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KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

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10. RCP END SECTION	EA	–	2
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Fax (702) 284-5399
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN X

S:12 T:19 R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572
10/13/2020

G-10
SHEET 13 OF 19

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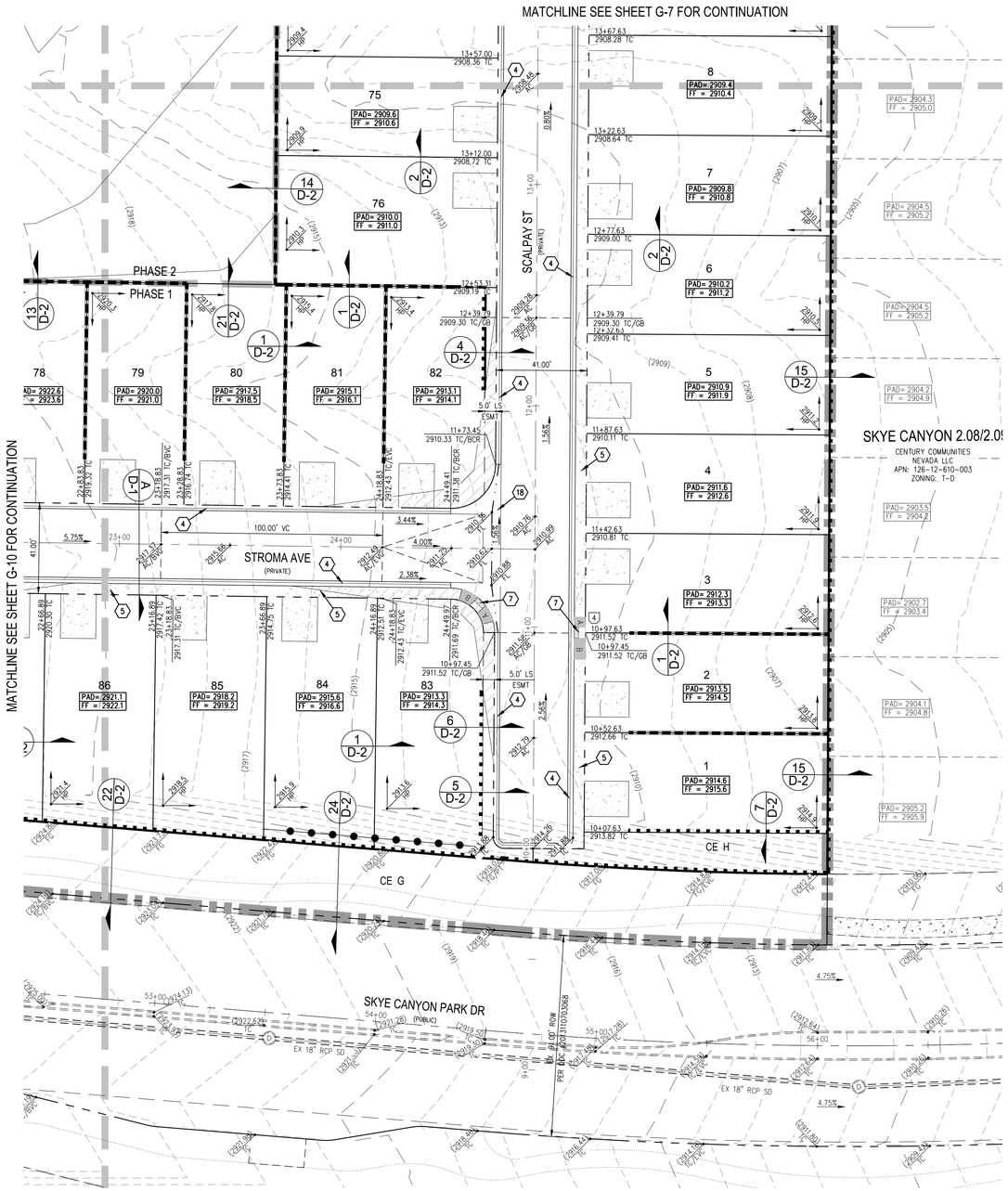

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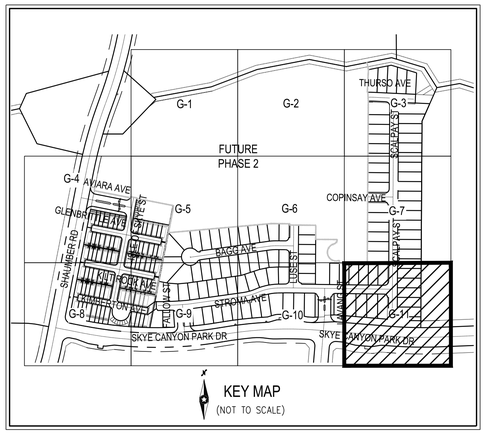

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 161,549 CU YDS
FILL= 54,402 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

1) 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 IN THEIR PROPER LOCATION.

2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
5. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
6. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
7. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 24" CLASS I RCP STORM DRAIN
- SD2 INSTALL 30" CLASS II RCP STORM DRAIN
- SD3 INSTALL 36" CLASS III RCP STORM DRAIN
- SD4 INSTALL 42" CLASS III RCP STORM DRAIN
- SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD8 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 245720 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	1,145	–
2. RIPRAP W/ FILTER FABRIC D50=12", THK=24"	SF	300	–
3. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	7,675	–
4. 24" CLASS I RCP STORM DRAIN	LF	–	8
5. 30" CLASS II RCP STORM DRAIN	LF	–	192
6. 36" CLASS III RCP STORM DRAIN	LF	–	63
7. 42" CLASS III RCP STORM DRAIN	LF	–	75
8. 12.5-FT TYPE "CM-2" DROP INLET	EA	–	2
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	2
11. 24" CLASS II RCP STORM DRAIN	LF	–	56

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5740 S. Arville Street
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Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
GRADING PLAN XI

S12 T19 R59

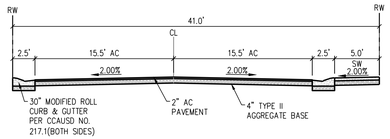
DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572
10/13/2020

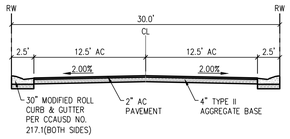
G-11
SHEET 14 OF 19

J:\Cen1909-00 skye canyon parcel 2.10\dwg\improv\phase 1\cen1909grd-1.dwg 10/13/2020 1:13 PM lukeb Abd



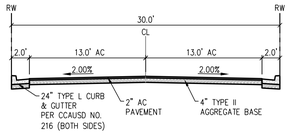
A. INTERIOR STREET SECTION — STROMA AVE, BAGG AVE, LUSE ST, SCALPAY ST, COPINSAY AVE, THURSO AVE

NOT TO SCALE



B. INTERIOR STREET SECTION — KIMBERTON AVE, KILT ROCK AVE, GLENBRITTLE AVE

NOT TO SCALE



C. INTERIOR STREET SECTION — ISLE OF SKYE ST

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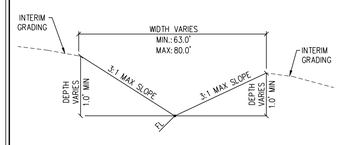

G. INTERIM GRADING DRAINAGE SWALE

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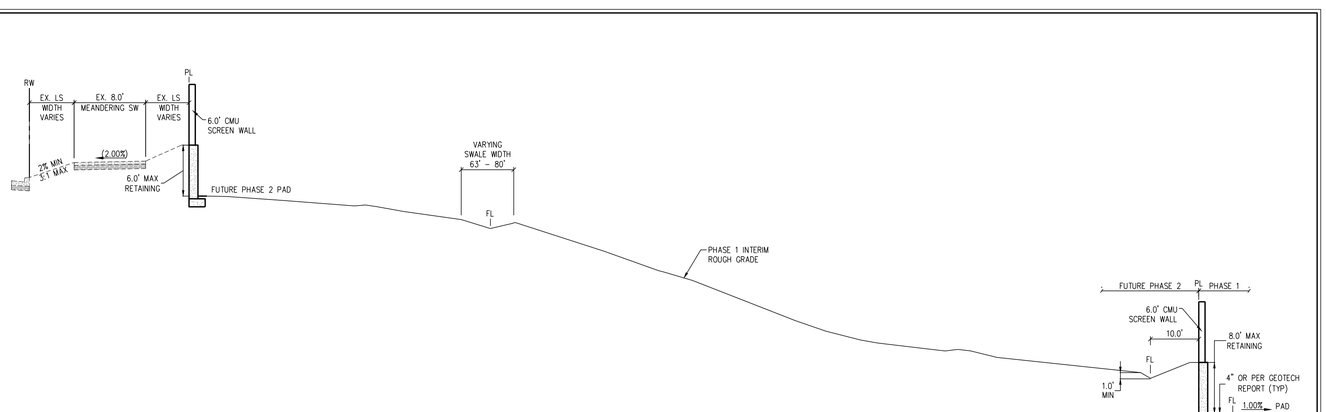

F. EAST WEST ROUGH GRADE SECTION

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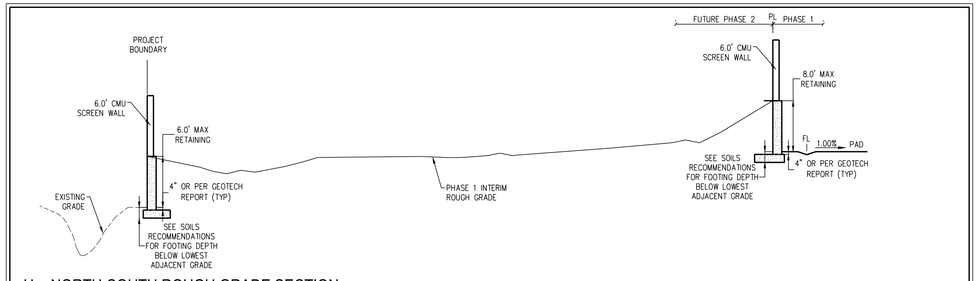

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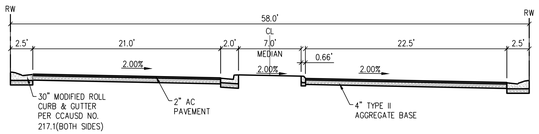

D. ENTRANCE STREET SECTION — LAVANG ST

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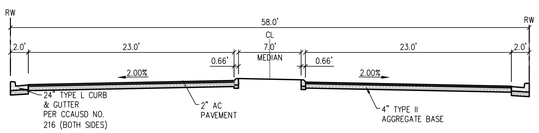

E. ENTRANCE STREET SECTION — AVIARA AVE

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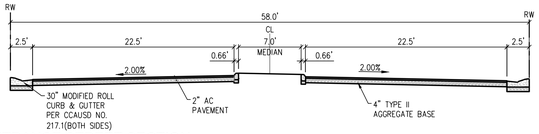

F. ENTRANCE STREET SECTION — FALLOW ST

NOT TO SCALE

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westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1

DETAIL SHEET I

S12
S19
R69

DATE: 10/7/20

DRAFTER: LBA

DESIGNER: LBA

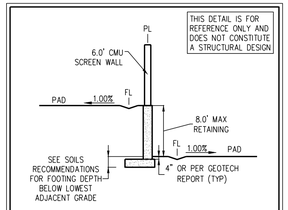
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572
10/13/2020

D-1
SHEET 15 OF 19

\\cen1909-00 skye canyon parcel 2.10\dwg\mmtrx\phase 1\cen1909dtl1.dwg 10/13/2020 1:14 PM lukas.ibos



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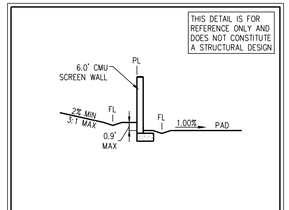

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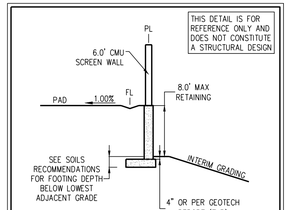

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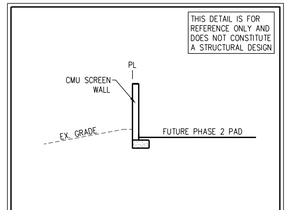

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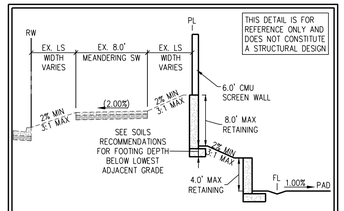

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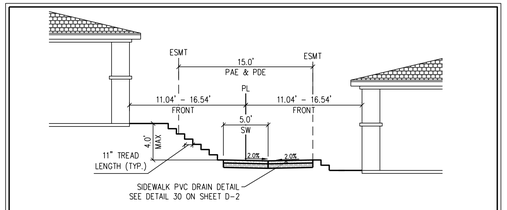

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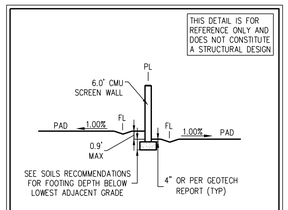

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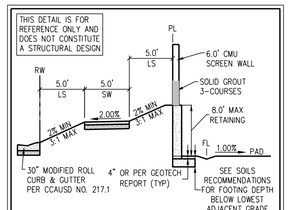

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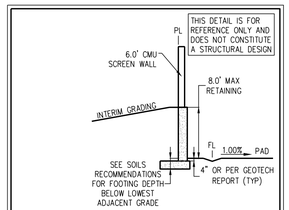

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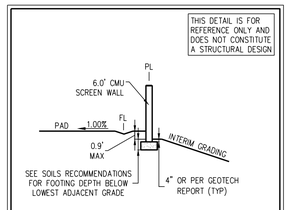

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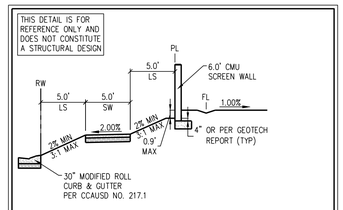

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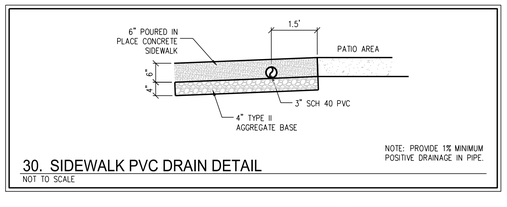

30. SIDEWALK PVC DRAIN DETAIL
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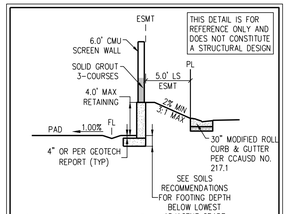

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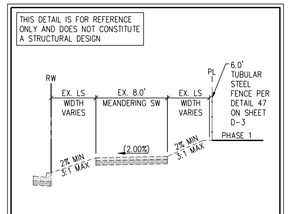

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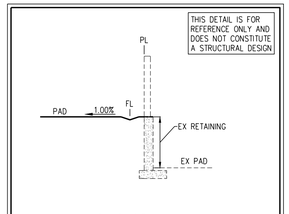

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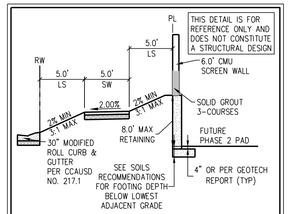

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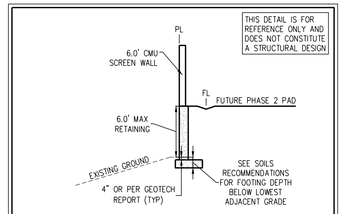

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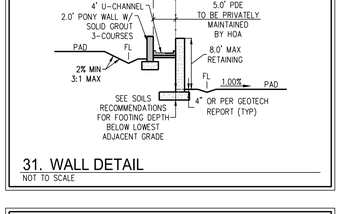

31. WALL DETAIL
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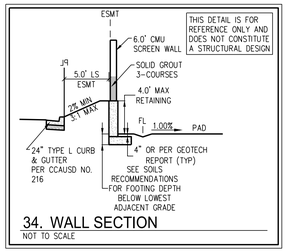


34. WALL SECTION
NOT TO SCALE

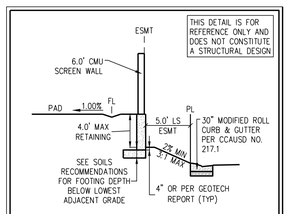
4. WALL SECTION
NOT TO SCALE

10. COMMON ELEMENT SECTION
NOT TO SCALE

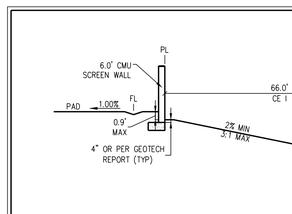
21. WALL SECTION
NOT TO SCALE

27. WALL DETAIL
NOT TO SCALE

32. WALL SECTION
NOT TO SCALE



5. WALL SECTION
NOT TO SCALE



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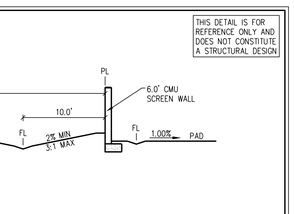
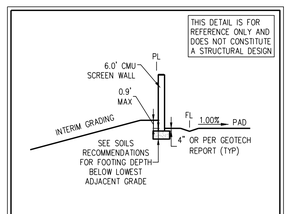
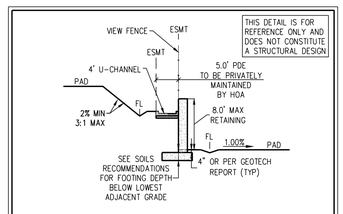
NOT TO SCALE



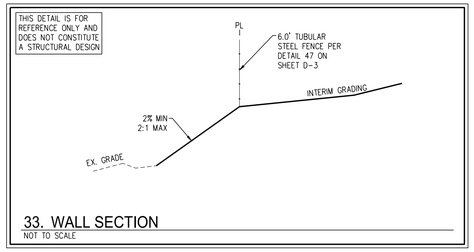
16. WALL SECTION
NOT TO SCALE



22. PERIMETER WALL SECTION
NOT TO SCALE



28. SECTION DETAIL
NOT TO SCALE



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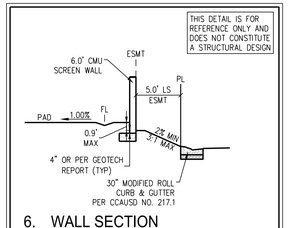
NOT TO SCALE



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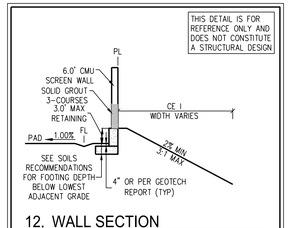
NOT TO SCALE



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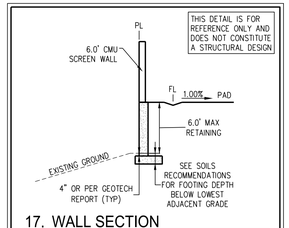
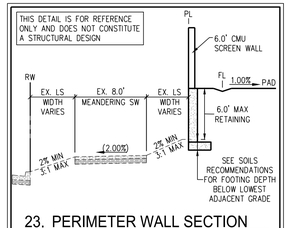
NOT TO SCALE



17. WALL SECTION
NOT TO SCALE



23. PERIMETER WALL SECTION
NOT TO SCALE

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

Call before you Dig
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Call 811
OR
1-800-227-2600

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Fax (702) 284-5399
5740 S. Arville Street
Suite 216
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Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

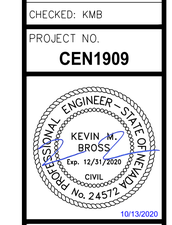
CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
DETAIL SHEET II

S:12
T:19
R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909



10/13/2020

D-2
SHEET 16 OF 19

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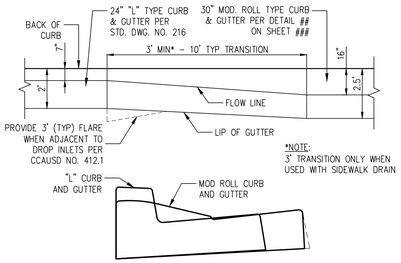
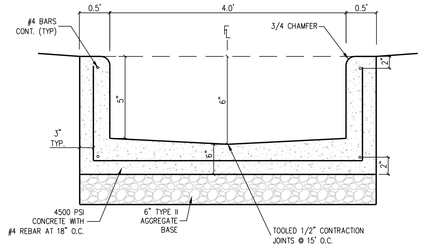


40. 3' TRANSITION FROM 24" "L" C&G TO MODIFIED 30" ROLL C&G

NOT TO SCALE



43. 4' CONCRETE U-CHANNEL

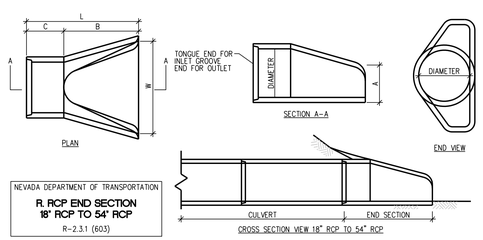
NOT TO SCALE

DIAMETER	WEIGHT	A	B	C*	L	W
18"	670	9"	2'-1"	2'-1"	4'-2"	3'-0"
24"	1,300	9-1/2"	3'-6"	2'-6"	6'-0"	4'-0"
30"	1850	1'-0"	4'-5"	1'-8"	6'-1"	5'-0"
36"	3500	1'-3"	5'-2"	2'-11"	8'-1"	6'-0"
42"	4930	1'-9"	5'-3"	2'-11"	8'-2"	6'-2"
48"	6700	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"
54"	7150	2'-3"	5'-6"	2'-9"	8'-3"	6'-10"

*FOR REFERENCE ONLY

GENERAL NOTES:

1. CLASS AND TYPE OF CONCRETE SHALL BE AS SPECIFIED FOR REINFORCED CONCRETE PIPE.
2. STRUCTURAL DESIGN OF END SECTION SHALL CONFORM TO THAT OF STANDARD REINFORCED CONCRETE CULVERT PIPE.
3. LENGTH OF PIPE SHOWN ON THE DESIGN PLANS DOES NOT INCLUDE CONNECTOR SECTION (LENGTH C).
4. CONTACT HYDRAULICS ENGINEER FOR SIZES NOT LISTED.



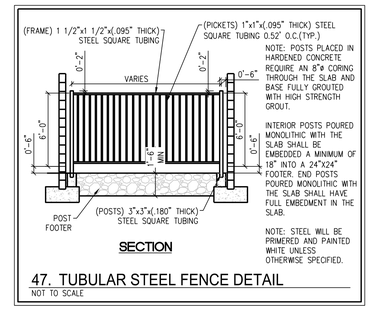
NEVADA DEPARTMENT OF TRANSPORTATION

R. RCP END SECTION 18" RCP TO 54" RCP

R-2.3.1 (603)

45. RCP END SECTION DETAIL

NOT TO SCALE



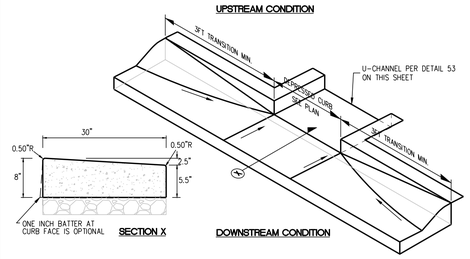
NOTE: POSTS PLACED IN HARDENED CONCRETE REQUIRE AN 8"ø CORING THROUGH THE SLAB AND BASE FULLY GROUTED WITH HIGH STRENGTH GROUT.

INTERIOR POSTS POURED MONOLITHIC WITH THE SLAB SHALL BE EMBEDDED A MINIMUM OF 18" INTO A 24"X24" FOOTER. END POSTS POURED MONOLITHIC WITH THE SLAB SHALL HAVE FULL EMBEDEMENT IN THE SLAB.

NOTE: STEEL WILL BE PRIMERED AND PAINTED WHITE UNLESS OTHERWISE SPECIFIED.

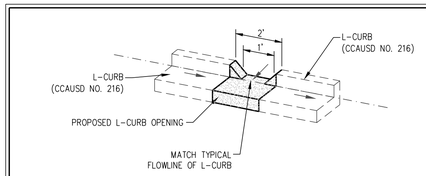
47. TUBULAR STEEL FENCE DETAIL

NOT TO SCALE



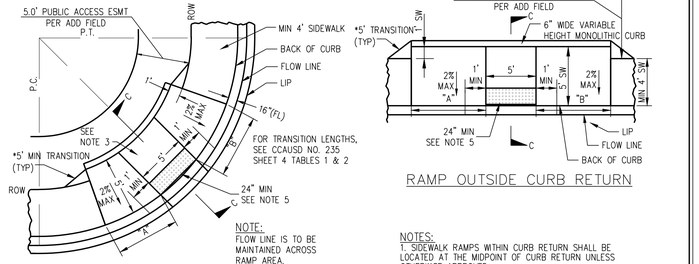
41. DEPRESSED TO ROLL CURB TRANSITION

NOT TO SCALE



44. L-CURB OPENING DETAIL

NOT TO SCALE



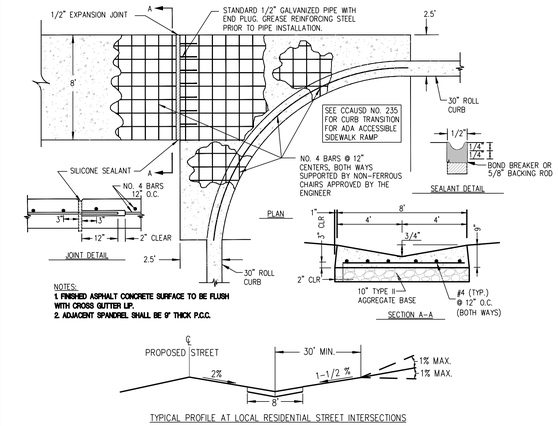
NOTES:

1. SIDEWALK RAMPS WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN UNLESS OTHERWISE APPROVED.
2. SIDEWALK RAMPS OUTSIDE OF THE CURB RETURN SHALL BE LOCATED ADJACENT TO THE RETURN UNLESS OTHERWISE APPROVED.
3. RAMPS SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
4. WHEN CONSTRUCTING RAMP WHERE CURB & GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER.
5. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WHICH COMPLY WITH DETAILS ON SHEET 4 OF CCAUSD NO. 235 AND CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING THE FULL WIDTH OF THE RAMP AND EXTENDING A MINIMUM DISTANCE OF 24 INCHES UP THE RAMP. COLOR SHALL BE "FEDERAL YELLOW" UNLESS OTHERWISE APPROVED.
6. A 5' PAD AT 2% MAX SLOPE SHALL BE PROVIDED ON THE DOWNHILL SIDE WHEN STREET SLOPE EXCEEDS 2% SLOPE.
7. "A" AND "B" ARE EQUAL TO 8' WHEN FLOWLINE GRADES IS BETWEEN -2% AND +2% FOR ALL OTHER TRANSITION LENGTHS, SEE CCAUSD NO. 235 SHEET 4 TABLE 1.
8. ALL CURB FLOW LINES SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AS DIRECTED BY AGENCY AT THE SOLE EXPENSE OF THE CONTRACTOR.

* TRANSITION ONLY WHEN LESS THAN 5' WIDE SIDEWALK

46. SIDEWALK RAMP W/ MODIFIED ROLL CURB

NOT TO SCALE



NOTES:

1. FINISHED ASPHALT CONCRETE SURFACE TO BE FLUSH WITH CROSS GUTTER LIP.
2. ADJACENT SPANDREL SHALL BE 6" THICK P.C.C.

TYPICAL PROFILE AT LOCAL RESIDENTIAL STREET INTERSECTIONS

42. MODIFIED 8' WIDE CROSS GUTTER

NOT TO SCALE

Westwood

Phone (702) 284-5300
Fax (702) 284-5399

5740 S. Arville Street
Suite 216
Las Vegas, NV 89118

westwoodps.com

Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1

DETAIL SHEET III

S12
S13
R59

DATE: 10/7/20

DRAFTER: LBA

DESIGNER: LBA

CHECKED: KMB

PROJECT NO.
CEN1909

10/13/2020

D-3

SHEET 17 OF 19

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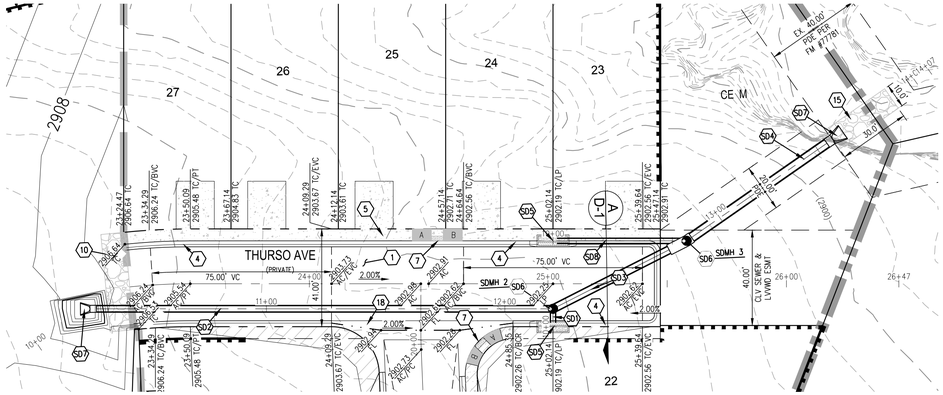
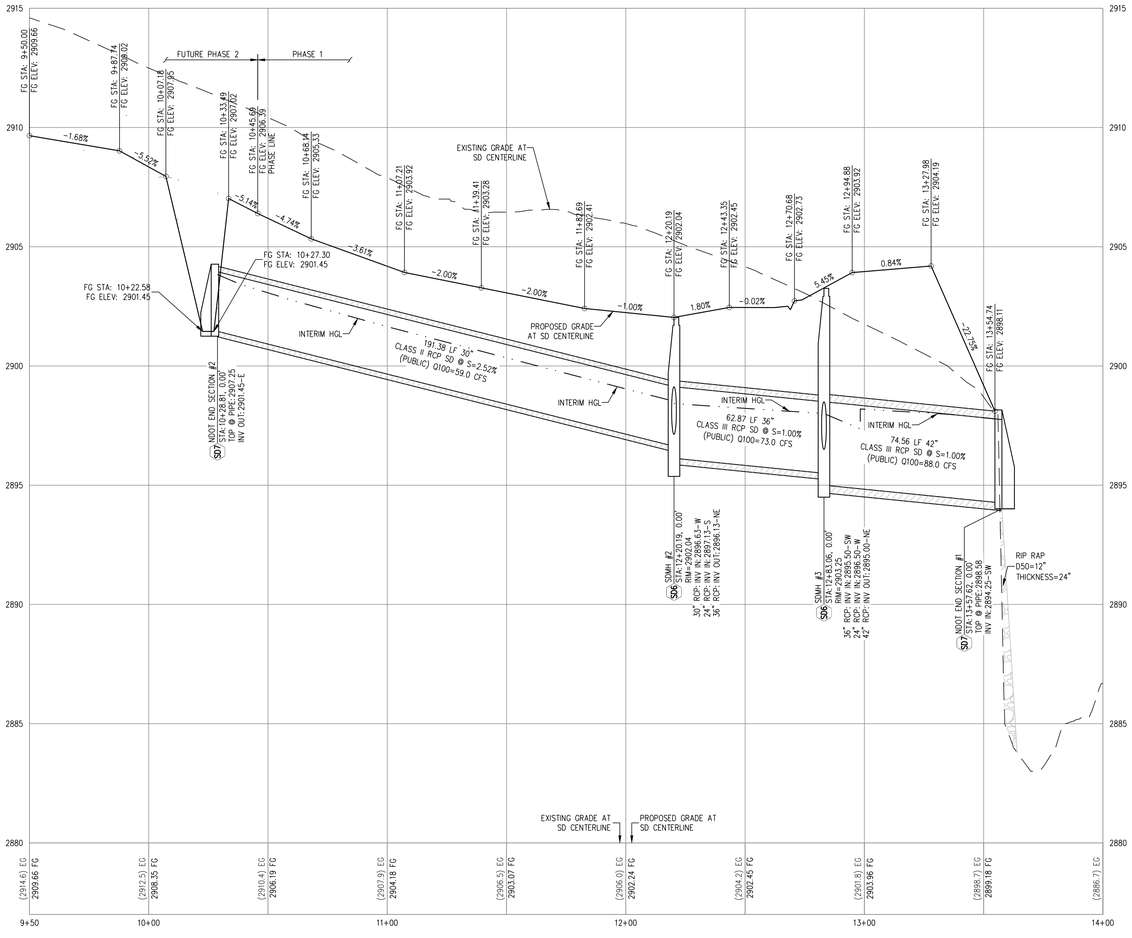
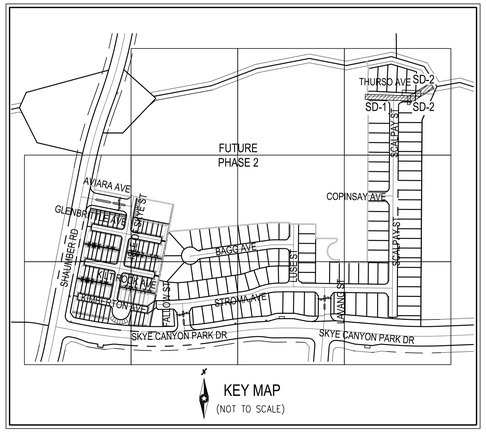


STORM DRAIN MAIN - PLAN VIEW



STORM DRAIN MAIN - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'



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2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

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8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

SD1 INSTALL 24" CLASS I RCP STORM DRAIN
SD2 INSTALL 30" CLASS II RCP STORM DRAIN
SD3 INSTALL 36" CLASS III RCP STORM DRAIN
SD4 INSTALL 42" CLASS III RCP STORM DRAIN
SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
SD8 INSTALL 24" CLASS II RCP STORM DRAIN

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

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Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
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Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
PLAN AND PROFILE - STORM DRAIN MAIN

S12
T19
R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

SD-1
SHEET 18 OF 19

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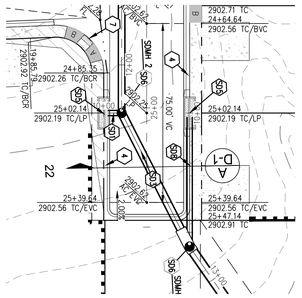
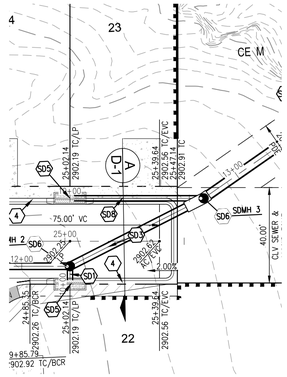
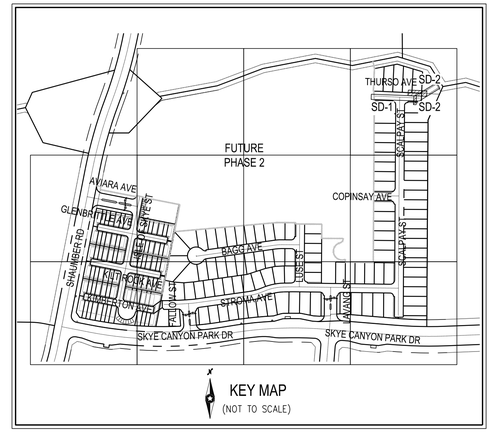


SOUTH SD LATERAL - PLAN VIEW



NORTH SD LATERAL - PLAN VIEW



KEY MAP
(NOT TO SCALE)

0 30 60
SCALE – 1"=30' FEET

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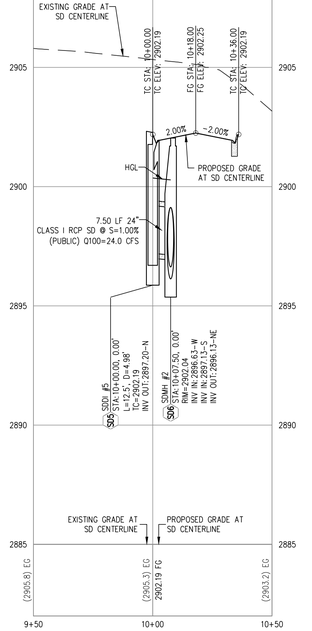
4. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
7. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
8. CONSTRUCT 8-FT VALLEY GUTTER PER CCAUSD NO. 228
9. CONSTRUCT 3-FT TRANSITION FROM MODIFIED ROLLED CURB TO "L" TYPE CURB PER DETAIL 40 ON SHEET D-3
10. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
11. INSTALL 30" ROLL CURB TO DEPRESSED CURB TRANSITION PER DETAIL 41 SHEET ON D-3
12. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 43 ON SHEET D-3
13. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE II
14. INSTALL 6-FT HIGH TUBULAR STEEL FENCE PER DETAIL 47 ON SHEET D-3
15. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=12", T=24"
16. INSTALL L-CURB OPENING PER DETAIL 44 ON SHEET D-3
17. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE
18. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 42 ON SHEET D-3

STORM DRAIN CONSTRUCTION NOTES

SD1 INSTALL 24" CLASS I RCP STORM DRAIN
SD2 INSTALL 30" CLASS II RCP STORM DRAIN
SD3 INSTALL 36" CLASS III RCP STORM DRAIN
SD4 INSTALL 42" CLASS III RCP STORM DRAIN
SD5 INSTALL 12.5-FT TYPE "CM2" DROP INLET PER CCAUSD 403
SD6 INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
SD7 INSTALL RCP SD END SECTION PER DETAIL 45 ON SHEET D-3 (NDOT STD DWG. R-2.31)
SD8 INSTALL 24" CLASS II RCP STORM DRAIN

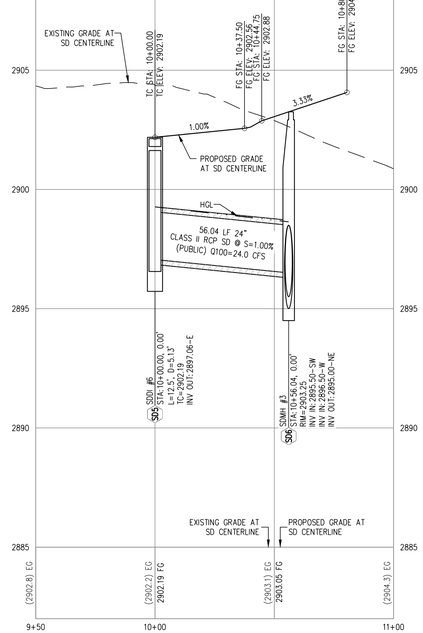
SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.



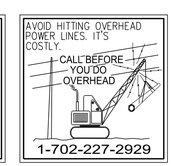
SOUTH SD LATERAL - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'



NORTH SD LATERAL - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'



Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 1
PLAN AND PROFILE - NORTH & SOUTH SD LATERAL

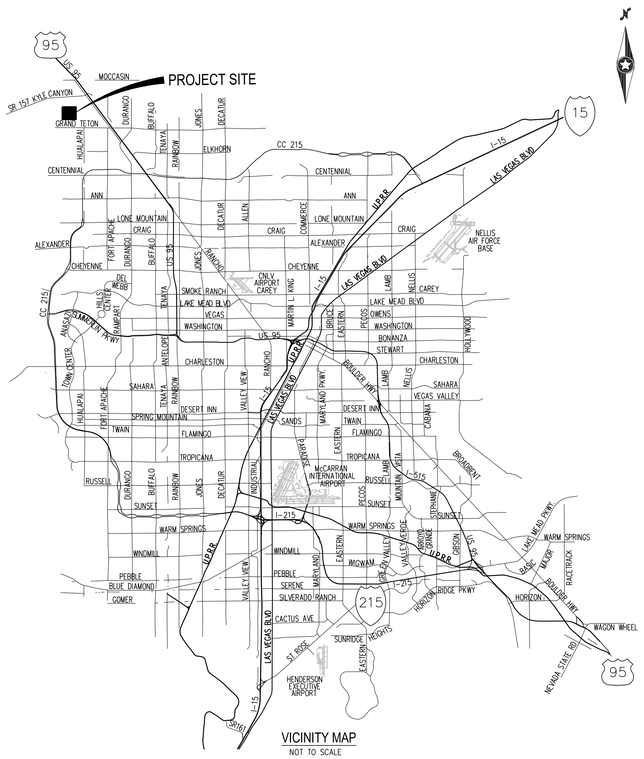
S:12
T:20
R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24575
10/13/2020

SD-2
SHEET 19 OF 19

J:\cen1909-00 skye canyon parcel 2.10\dwg\improv\phase 1\cen1909sp-1.dwg 10/13/2020 1:15 PM Lukas Aboud



VICINITY MAP
NOT TO SCALE

SITE MAP
NOT TO SCALE

CENTURY COMMUNITIES

IMPROVEMENT PLANS FOR SKYE CANYON 2.10 - PHASE 2

CITY OF LAS VEGAS, NEVADA
RESIDENTIAL SUBDIVISION
APN:126-12-610-002

CITY OF LAS VEGAS NEVADA

Sheet List Table

NO.	SHEET	TITLE
1	C-1	COVER SHEET
2	C-2	STANDARD NOTES
3	C-3	QUANTITIES & LEGEND
4	G-1	GRADING PLAN I
5	G-2	GRADING PLAN II
6	G-3	GRADING PLAN III
7	G-4	GRADING PLAN IV
8	G-5	GRADING PLAN V
9	G-6	GRADING PLAN VI
10	D-1	DETAIL SHEET I
11	D-2	DETAIL SHEET II
12	D-3	DETAIL SHEET III
13	SD-1	PLAN AND PROFILE - EAST MAINLINE
14	SD-2	PLAN AND PROFILE - NORTH LATERAL & WEST MAINLINE

APPROVALS

CITY OF LAS VEGAS ENGINEER APPROVAL

LAS VEGAS FIRE AND RESCUE — DATE

CITY OF LAS VEGAS PLANNING DEPARTMENT

CENTRAL TELEPHONE CO. DBA CENTURYLINK — DATE

THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUES AND / OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. ###### FIRST APPROVED DATE:
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 20 GPM

SHEETS: ADD FIELD

NV ENERGY — DATE

NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION — DATE

COX COMMUNICATIONS LAS VEGAS, INC. — DATE

OWNER/DEVELOPER
CENTURY COMMUNITIES OF NEVADA, LLC
6345 SOUTH JONES BLVD.
LAS VEGAS, NV 89118
PH (702) 873-5338
CONTACT: PAUL KENNER

ENGINEER
WESTWOOD PROFESSIONAL SERVICES, INC.
5740 S. ARVILLE STREET, SUITE 216
LAS VEGAS, NV 89118
PH: (702) 284-5300
FX: (702) 284-5399
CONTACT: KEVIN M. BROSS

LEGAL DESCRIPTION

A PORTION OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

BENCHMARK

BENCHMARK NUMBER: USDA1934

U.S. DEPARTMENT OF AGRICULTURE BRASS DISC AT THE SOUTHWEST CORNER OF U.S. 95 AND KYLE CANYON ROAD.

ELEVATION = 2817.61 FEET, 858.81 METERS
N.A.V.D. 88 DATUM

PER THE CITY OF LAS VEGAS VERTICAL CONTROL WEBSITE

BASIS OF BEARINGS

SOUTH 00°34'18" EAST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 157, PAGE 41 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FEMA FLOOD ZONE INFORMATION

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE 'X' (AREA OUTSIDE THE 500 YEAR FLOODPLAIN), PER THE FEMA FIRM PANELS 32003C1750E DATED SEPTEMBER 27, 2002

PROJECT INFORMATION - OVERALL

ACREAGE (GROSS):	= 41.27 AC
DENSITY (LOTS/GROSS ACRE):	= 8.55 DU/NET AC
ZONING:	= T-D
TOTAL NO. OF RESIDENTIAL LOTS	= 353 SFR:220 TOWNHOUSES: 133
TOTAL NO. OF COMMON ELEMENTS *	= 19
MINIMUM LOT SIZE	= 1,282 SF±
MAXIMUM LOT SIZE	= 8,934 SF±
PROVIDED OPEN SPACE	= 80,582 SF±

EARTHWORK SUMMARY (UNADJUSTED)

CUT	162,638 CY.
FILL	53,941 CY.
NET	108,697 CY. (CUT)

PROJECT INFORMATION - PHASE 2

ACREAGE (GROSS):	= 18.84 AC
DENSITY (LOTS/NET ACRE):	= 8.60 DU/GROSS AC
ZONING:	= T-D
TOTAL NO. OF RESIDENTIAL LOTS	= 191 SFR: 110 TOWNHOUSES: 52
TTOTAL NO. OF COMMON ELEMENTS *	= 7
MINIMUM LOT SIZE	= 1,282 SF±
MAXIMUM LOT SIZE	= 8,744 SF±
PROVIDED OPEN SPACE	= 27,460 SF±

EARTHWORK SUMMARY (UNADJUSTED)

CUT	22,663 CY.
FILL	17,185 CY.
NET	5,478 CY.

SWPPP NOTE

NOTE: ALL LAND SURFACE AREA DISTURBANCES OVER 1 ACRE REQUIRE A STORMWATER DISCHARGE PERMIT ISSUED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP). A PHASED CONSTRUCTION UNIT IN A CONTIGUOUS SUBDIVISION IS CONSIDERED UNDER CONSTRUCTION UNTIL ALL STRIPPED SURFACE AREAS HAVE BEEN COVERED BY PAVING, BUILDING CONSTRUCTION OR PLANTING. A STORMWATER DISCHARGE PERMIT APPLICATION AND ASSOCIATED INFORMATION MAY BE DOWNLOADED FROM THE WEB SITE: HTTP://WWW.STATE.NV.US/BWPC/STORM01.HTM PROJECTS THAT DISTURB MORE THAN ONE ACRE OF LAND MUST SUBMIT TO NDEP A "NOTICE OF INTENT" FOR INCLUSION UNDER STORMWATER PERMIT NO. NVR100000 ALONG WITH THE APPROPRIATE FILLING FEE.

GEOTECHNICAL ENGINEER

PREPARED BY: GEOTEK RESIDENTIAL, LLC
ADDRESS: 6835 SOUTH ESCONDIDO AVE.
PHONE: (702) 897-1424
PROJECT No. 12203.38C-LVR
DATED: 07/01/2020

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T)

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

Westwood
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
COVER SHEET

S12 T19 R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24573
10/13/2020

C-1
SHEET 1 OF 14

J:\cen1909-00 skye canyon parcel 2.1\Dwg\Improv\phase 2\cen1909cvr - 2.dwg 10/13/2020 1:19 PM Lobelo Abot

STORMWATER RUNOFF MANAGEMENT

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT ,MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

LEGAL DESCRIPTION

A PORTION OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

BENCHMARK

BENCHMARK NUMBER: USDA1934

U.S. DEPARTMENT OF AGRICULTURE BRASS DISC AT THE SOUTHWEST CORNER OF U.S. 95 AND KYLE CANYON ROAD.

ELEVATION = 2817.61 FEET, 858.81 METERS
N.A.V.D. 88 DATUM

PER THE CITY OF LAS VEGAS VERTICAL CONTROL WEBSITE

BASIS OF BEARINGS

SOUTH 00°34'18" EAST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.DM., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 157, PAGE 41 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRICAL SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
   A) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-364-2099
5. SOUTHWEST GAS STANDBY CONTACT NUMBER (702)-278-8451

SOUTHWEST GAS APPROVAL

SOUTHWEST GAS CORPORATION DATE

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y"'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT #_ADD FIELD_ (REVISED 08/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

    ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

GRADING NOTES

1. INDICATED GRADES OTHER THAN T.C., F.G. & GUTTER F.L. ARE ROUGH GRADES.
2. THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
3. CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
4. ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.1' OF THE PAD ELEVATIONS SHOWN ON THE PLANS. WHEN GRADING IS COMPLETE PER THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE LOTS CAN BE INSPECTED. AT THAT TIME THE ENGINEER SHALL ALSO DECIDE IF ANY ADDITIONAL DITCHES OR BERMS ARE REQUIRED. THE CONTRACTOR IS REQUESTED NOT TO REMOVE ANY OF HIS ROUGH GRADING EQUIPMENT UNTIL HE RECEIVES GRADING APPROVAL FROM THE ENGINEER.
5. SOILS REPORT PREPARED BY GEOTEK RESIDENTIAL, LLC, PROJECT NO. 12203.3BC-LVR, DATED 07/01/2020.
6. EARTHWORK QUANTITIES (RAW):
   -CUT = 22,663 CUBIC YARDS.
   -FILL = 17,185 CUBIC YARDS

   A) THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
   B) THE ABOVE QUANTITIES DO REFLECT USING NATIVE MATERIAL IN LIEU OF TYPE I GRAVEL BASE MATERIAL FOR STREET SECTIONS.
   C) THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.

CITY OF LAS VEGAS FIRE AND RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S – APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 3312
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. IFC § 106.3
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC § 507
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC § 507
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102
    - RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.10
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.4
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. IFC § 503.2.3
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 8% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 503.2.7, § 503.2.8
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. NOT LESS THAN 28 FT WDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD- ENDS OR A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. IFC § 503.3
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. IFC § 503.6
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL	COMPACTION
A.PAVEMENT AREA SUBGRADE	0.1'+	+0.0" TO -0.1"	SEE SOILS REPORT
B.ENGINEERED FILL	0.5'+	+0.1" TO -0.1"	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

UTILITY LOCATION NOTE TO CONTRACTOR

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 LOCATIONS. CALL BEFORE YOU DIG: 1 (800) 227-2600; SOUTHWEST GAS CORPORATION: 702-278-8451 (STANDBY CONTACT NUMBER)

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300'IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS T

ABBREVIATIONS

AC	ASPHALTIC CONCRETE OR ACRE
AGG	AGGREGATE BASE
APN	ASSESSORS PARCEL NUMBER
APPROX OR ~	APPROXIMATE
AVE	AVENUE
@	AT
BC	BEGIN CURVE OR BACK OF CURB
BCR	BEGINNING OF CURB RETURN
BHW	BOTTOM OF HEADWALL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BVC	BEGIN VERTICAL CURVE
BWV	BACK WATER VALVE
CC	CLARK COUNTY
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS
CCPW	CLARK COUNTY PUBLIC WORKS
CCRFCD	CLARK COUNTY REGIONAL FLOOD DISTRICT
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CE	COMMON ELEMENT
CL/C/L/C	CENTERLINE
CLR	CLEAR OR CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CITY OF LAS VEGAS
CML&C	CEMENT MORTAR LINED AND COATED
CMU	CONCRETE MASONRY UNIT
CNLV	CITY OF NORTH LAS VEGAS
COH	CITY OF HENDERSON
CONC	CONCRETE
CT	COURT
CY OR CU YD	CUBIC YARD
DCWCS	DESIGN AND CONSTRUCTION FOR WASTEWATER COLLECTION SYSTEMS
DE	DRAINAGE EASEMENT
DET	DETAIL
DI	DUCTILE IRON OR DRAIN INLET
DIA, ø	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DWG(S)	DRAWING
DWY	DRIVEWAY
EA	EACH
ECR	END CURB RETURN
EG	EXISTING GROUND
ELEV	ELEVATION
ESMT	EASEMENT
EP	EDGE OF PAVEMENT
ERU	EQUIVALENT RESIDENTIAL UNIT
EVC	END VERTICAL CURVE
EX OR EXIST	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISHED GRADE
FGH	FINISHED GRADE, HIGH SIDE
FGL	FINISHED GRADE, LOW SIDE
FH	FIRE HYDRANT
FL	FLOWLINE
FT	FEET OR FOOT
FUT	FUTURE
GRD	GRADE OR GROUND
GB	GRADE BREAK OR GRADE CHANGE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HOA	HOME OWNERS ASSOCIATION
HORZ	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
HDWL OR HW	HEADWALL
HYD	HYDRAULIC OR HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INT	INTERSECTION
INV	INVERT ELEVATION
IP	IRON PIPE
IRRG	IRRIGATION
LF	LINEAR FEET
LMC	LANDSCAPE MAINTENANCE CORPORATION
LP	LOW POINT
LT OR L	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
LWL	LOW WATER LEVEL
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MUE	MUNICIPAL UTILITY EASEMENT
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NTS	NOT TO SCALE
NUE	NONEXCLUSIVE UTILITY EASEMENT
NVE	NV ENERGY
OC	ON CENTER
OD	OUTSIDE DIAMETER OR OVERALL DIMENSION
OFF	OFFSET
ORIG	ORIGINAL
PAE	PUBLIC OR PEDESTRIAN ACCESS EASEMENT
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PDE	PUBLIC DRAINAGE EASEMENT
P, OR PL	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT OF CURVATURE
POE	POINT OF ENDING
PRC	POINT OF REVERSE CURVATURE
PRELIM	PRELIMINARY
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PUE	PUBLIC UTILITY EASEMENT
PT	POINT OF TANGENT OR POINT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
QTY	QUANTITY
R	RADIUS
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY ESMT	ROADWAY EASEMENT
REQD	REQUIRED
REV	REVISION
RG	ROUGH GRADE
RT OR R	RIGHT
RW, ROW	RIGHT OF WAY
S	SLOPE
SCH	SCHEDULE
SD	STORM DRAIN
SDDI	STORM DRAIN DROP INLET
SDMH	STORM DRAIN MANHOLE
SEC	SECTION
SF	SQUARE FEET
SHT	SHEET
SLTC	STREET LIGHT & TRAFFIC CONTROL ESMT
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SPECS	SPECIFICATIONS
ST	STREET
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL
STLT	STREET LIGHT
SW	SIDEWALK
SWG	SOUTHWEST GAS
SWR OR SS	SANITARY SEWER
SY	SQUARE YARD
TAN	TANGENT
TC	TOP OF CURB
TF	TOP OF FLOOR OR TOP OF FOOTING
TG	TOP OF GRATE
THRU	THROUGH
THW	TOP OF HEADWALL
TP	TOP OF PIPE
TW	TOP OF WALL
TRW	TOP OF RETAINING WALL
TSW	TOP OF SCREEN WALL
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
UE	UTILITY EASEMENT
VC	VERTICAL CURVE
VERT	VERTICAL
VG	VALLEY GUTTER
WI	WROUGHT IRON
WL	WATER LINE
WPZ	WATER PRESSURE ZONE
WT	WEIGHT
WTR	WATER LINE

SPECIAL NOTE

IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED WHICH IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY OF LAS VEGAS DEPT. OF PUBLIC WORKS. TEMPORARY CONSTRUCTION ITEMS INCLUDE: PAVEMENT TRANSITIONS, PROTECTIVE DITCHES AND BERMS, ROAD SIGNS AND BARRICADES, ETC.

NOTICE TO CONTRACTOR

-QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.

-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 LOCATIONS. CALL BEFORE YOU DIG: (800) 227-2600

LEGEND

EXISTING	PROPOSED	DESCRIPTION
(1900)	1900	5' CONTOUR
		1' CONTOUR
		STRIPING
		SEWER MANHOLE
		CURB AND GUTTER
EX 8" PVC SS	8" PVC SS	SANITARY SEWER PIPE AND FLOW ARROW
EX 8" PVC WTR	8" PVC WTR	WATER PIPE
		WATER GATE VALVE
		FIRE HYDRANT
		WATER BLOW-OFF
		WATER LATERAL W/ METER
		SANITARY SEWER LATERAL
		STREETLIGHT
		EDGE OF PAVEMENT
		TRAFFIC SIGN
PAD= XXX.X FF = XXX.X	PAD= XXX.X FF = XXX.X	PAD ELEVATION FINISHED FLOOR ELEVATION
(00.00) TC	00.00 TC	ELEVATION
		RETAINING WALL
		STORM DRAIN W/ MANHOLE

	EXISTING GAS GATE VALVE
MH	EXISTING UNKNOWN MANHOLE
GAS	EXISTING GAS, SIZE PER PLAN
	EXISTING POWER POLE
XXXX	EXISTING TRAFFIC SIGNAL
	EXISTING WALL
	WATER PIPE FITTING
POC	WATER POINT OF CONNECTION
POC	SEWER POINT OF CONNECTION
	DAYLIGHT LINE
	STREET CENTERLINE
	RIGHT-OF-WAY
	MATCHLINE
	BOUNDARY LINE
	PHASE LINE
	PROPERTY LINE
	FLOWLINE
	SAWCUT
FILL / CUT	CUT/FILL TRANSITION LINE
	SIDEWALK
	EX STRIPING TO BE OBLITERATED
	GRADE BREAK LINE
	REFLECTIVE RAISED PAVEMENT MARKERS
BWV	BACK WATER VALVE
	WROUGHT IRON FENCE
	PONY WALL
	DECORATIVE PERIMETER WALL
	DECORATIVE PERIMETER RETAINING WALL
	PROPOSED CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
	EXISTING CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
	FUTURE CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
	PROPOSED SCARP AREA
	DRIVEWAY
	PROPOSED RIP RAP
	SIGHT VISIBILITY ZONE PER STD DWG NO. 201.2
	HANDICAP RAMP

QUANTITIES

			PRIVATE	PUBLIC
DRAINAGE				
1.	48" TYPE II STORM DRAIN MANHOLE	EA	–	1
2.	10.0' TYPE "CM2" DROP INLET	EA	–	1
3.	20.0' TYPE "CM2" DROP INLET	EA	–	2
4.	18" RCP CLASS IV STORM DRAIN	LF	–	109
5.	24" RCP CLASS II STORM DRAIN	LF	–	66
6.	NDOT RCP END SECTION	EA	–	1
7.	DROP INLET CONCRETE APRON	EA	–	1
8.	2.5'x4' NDOT MOD. TYPE 2A DROP INLET	EA	–	1
9.	18" PREFABRICATED TRENCH DRAIN	LF	–	386
10.	8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE I AGGREGATE BASE	SF	3,305	–
11.	RIPRAP D50=8", THK=16"	SF	45	–
12.	24" RCP CLASS IV STORM DRAIN	LF	–	33
13.				
SEWER SYSTEM				
1.	4" PVC SEWER LATERAL (PRIVATE)	LF	–	–
2.	8" PVC SEWER PIPE (PUBLIC)	LF	–	–
3.	STANDARD 48" SEWER MANHOLE (PUBLIC)	EA	–	–
4.	8" SEWER PIPE CAP	EA	–	–
5.	BACK WATER VALVE	EA	–	–
6.	8" C-900 WATER QUALITY SEWER PIPE (PUBLIC)	EA	–	–
7.				
WATER SYSTEM				
1.	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40	EA	–	–
2.	6" PVC WATER PIPE (CLASS 150)	LF	–	–
3.	8" PVC WATER PIPE (CLASS 150)	LF	–	–
4.	8" DIP WATER PIPE (CLASS 53)	LF	–	–
5.	8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39	EA	–	–
6.	8" X 6" TEE PER UDACS PLATE NO. 31	EA	–	–
7.	8" X 8" TEE PER UDACS PLATE NO. 31	EA	–	–
8.	8" 5 DEGREE BEND WITH RESTRAINED JOINTS	EA	–	–
9.	8" 11.25 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
10.	8" 22.5 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
11.	8" 45 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
12.	8" 90 DEGREE BEND PER UDACS PLATE NO. 31	EA	–	–
13.	CAP AND 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE NO. 36	EA	–	–
14.	1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 2	EA	–	–
15.	1" COPPER SERVICE W/ 1" METER PER UDACS PLATE NO. 4	EA	–	–
16.	1" COPPER SERVICE W/ 3/4" METER & 1" RPPA PER UDACS PLATE NO. 4 & 8	EA	–	–
		EA	–	
STREET IMPROVEMENTS				
1.	2" A.C. PAVEMENT W/ 4" TYPE II OVER 6" TYPE I AGGREGATE BASE	SY	15,020	–
2.	STANDARD 18" TYPE "L" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	307	–
3.	STANDARD 8" TYPE "A" ISLAND CURB W/6" TYPE I AGGREGATE BASE	LF	–	–
4.	STANDARD 30" TYPE "ROLL" CURB & GUTTER W/6" TYPE I AGGREGATE BASE	LF	7,725	–
5.	5' WIDE CONCRETE SIDEWALK W/4" TYPE II AGGREGATE BASE	SF	1,235	–
6.	5' WIDE CONCRETE SIDEWALK W/5" TYPE II AGGREGATE BASE	SF	3,161	–
7.				
TRAFFIC SIGNALS				
1.	30" STOP SIGN WITH POST (R1-1)	EA	–	–
2.	9" STREET NAME SIGN (D-3, BROWN W/ WHITE LETTERS)(6 POLES x 2 PER POLE=12)	EA	–	–
3.	BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	EA	–	–
4.	CROSSWALK MARKINGS	LF	–	–
5.				
6.				
7.				
8.				
DRY UTILITIES				
1.	100W H.P.S. LUMINAIRE STREET LIGHT W/DECORATIVE POLE	EA	–	–
2.	1-1/4" PVC STREET LIGHT CONDUIT WITH (2) #4 AND (1) #8 CONDUCTORS	LF	–	–
3.	NO. 3-1/2 PULL BOX W/METAL COVER	EA	–	–
4.	150 AMP SERVICE PEDESTAL (IRR)	EA	–	–
5.	200 AMP SERVICE PEDESTAL (STLT)	EA	–	–
6.				

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. ADD FIELD FIRST APPROVED DATE:

Westwood
5740 S. Arville Street
Suite 210
Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
QUANTITIES & LEGEND

S12
S13
T19
R59

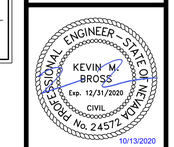
DATE: 10/7/20

DRAFTER: LBA

DESIGNER: LBA

CHECKED: KMB

PROJECT NO.
CEN1909



10/13/2020

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SHEET 3 OF 14

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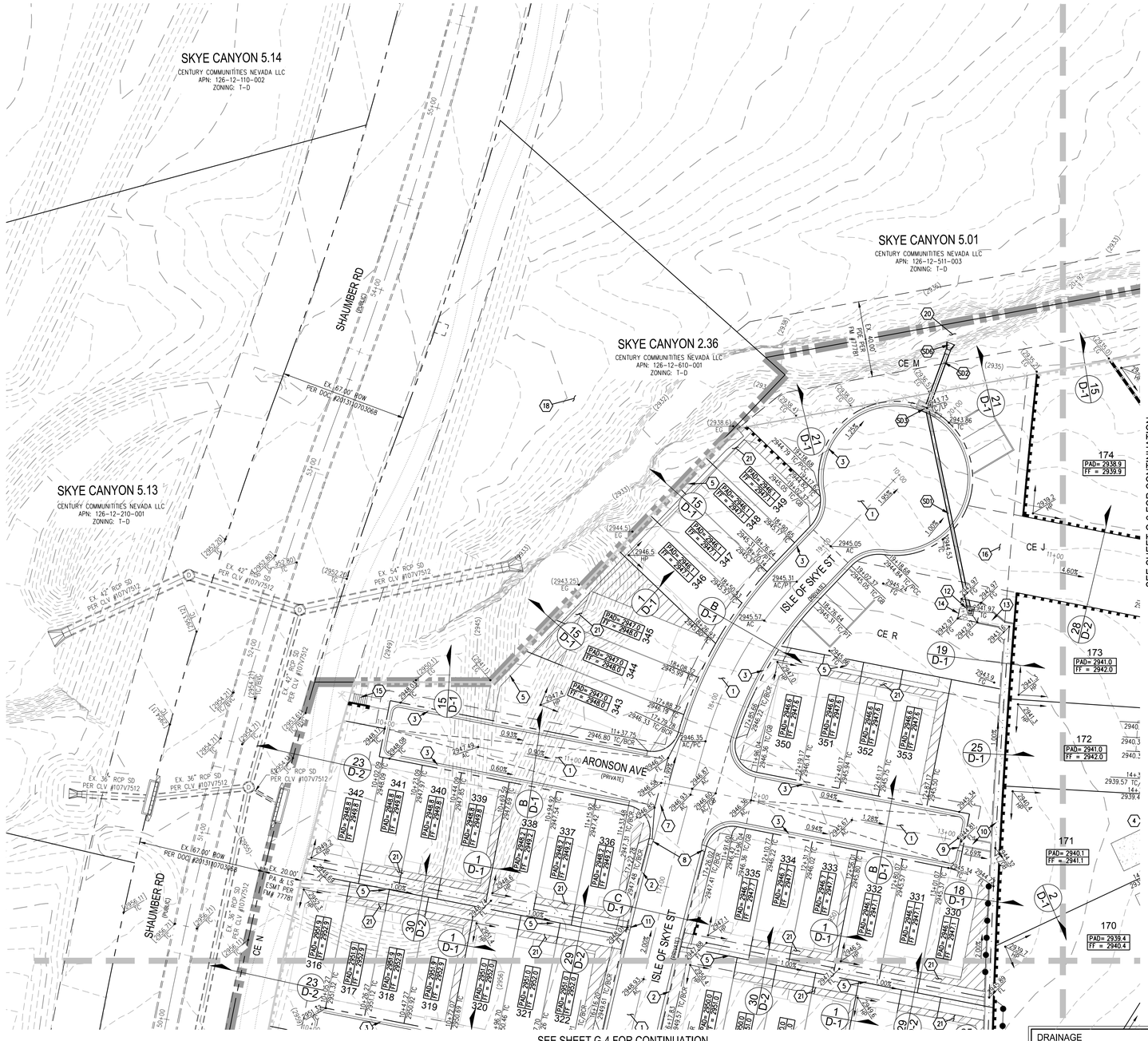
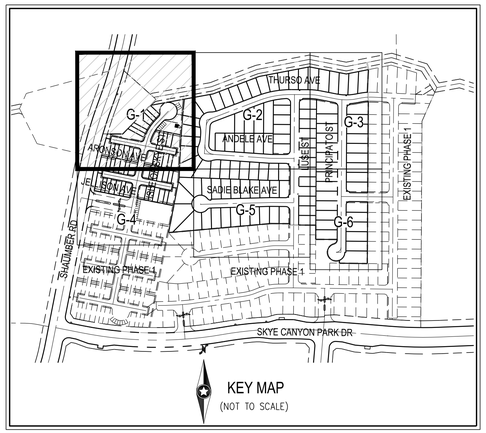


DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	45	–
2. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	3,305	–
3. 18" CLASS IV RCP STORM DRAIN	LF	–	109
4. 24" CLASS IV RCP STORM DRAIN	LF	–	33
5. 10.0-FT TYPE "CM-2" DROP INLET	EA	–	1
6. 20.0-FT TYPE "CM-2" DROP INLET	EA	–	2
7. 2.5'X4' TYPE 2 DROP INLET	EA	–	1
8. DROP INLET CONCRETE APRON	EA	–	1
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	1
11. 24" CLASS II RCP STORM DRAIN	LF	–	66

SCALE – 1"=30' (0, 30, 60 FEET)



KEY MAP
(NOT TO SCALE)

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

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FILL= 17,185 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

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3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
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8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

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3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
4. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
7. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 47 ON SHEET D-3
8. CONSTRUCT 3-FT TRANSITION FROM "L" TYPE CURB TO MOD. ROLL CURB PER DETAIL 40 ON SHEET D-2
9. INSTALL DEPRESSED CURB TO MOD. ROLL CURB TRANSITION PER DETAIL 41 SHEET ON D-2
10. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 42 ON SHEET D-2
11. INSTALL L-CURB OPENING PER DETAIL 43 ON SHEET D-2
12. INSTALL 2.5'X4' NDOT MODIFIED TYPE 2 DROP INLET PER DETAIL R-4.2.1 ON SHEET D-3 AND CCAUSD NO. 421.
13. INSTALL 4-FT CHANNEL TO CONCRETE APRON TRANSITION PER DETAIL 45 ON SHEET D-2
14. INSTALL DROP INLET CONCRETE APRON PER DETAIL R-4.2.7 ON SHEET D-3 AND CCAUSD NO. 421
15. INSTALL STAIRS
16. INSTALL 6" CONCRETE WITH 6" TYPE II AGGREGATE BASE
17. INSTALL REMOVABLE BOLLARD PER CCAUSD NO. 425.S1
18. CONSTRUCT 12' ACCESS ROAD WITH 6" TYPE II AGGREGATE BASE COMPACTED AT 90%
19. REMOVE AND DISPOSE OF EXISTING RIP RAP
20. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
21. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 18" CLASS IV RCP STORM DRAIN
- SD2 INSTALL 24" CLASS IV RCP STORM DRAIN
- SD3 INSTALL 10.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD4 INSTALL 20.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD5 REMOVE EXISTING END SECTION AND INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD6 INSTALL RCP END SECTION PER DETAIL 46 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD7 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY OS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — 10/13/2020 (DATE)

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
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Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR
1-800-227-2600

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
GRADING PLAN I

S12
S13
R69

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA – KEVIN M. BROSS – Exp. 12/31/2020 – CIVIL – No. 24572 – 10/13/2020

G-1
SHEET 4 OF 14

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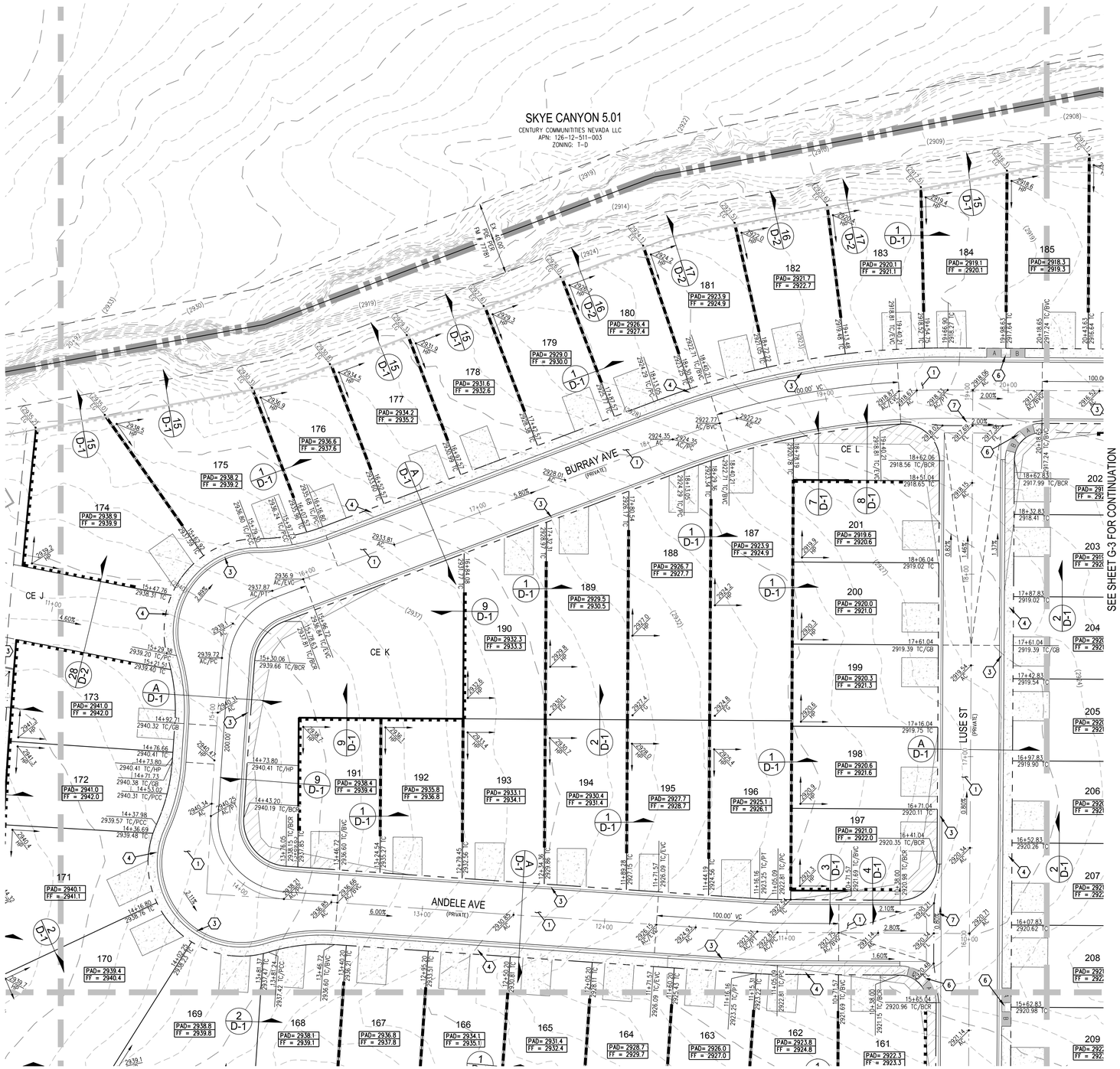
SKYE CANYON 5.01
CENTURY COMMUNITIES NEVADA LLC
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SEE SHEET G-1 FOR CONTINUATION
SEE SHEET G-3 FOR CONTINUATION
SEE SHEET G-5 FOR CONTINUATION
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ANDELE AVE (PRIVATE)
LUSE ST (PRIVATE)
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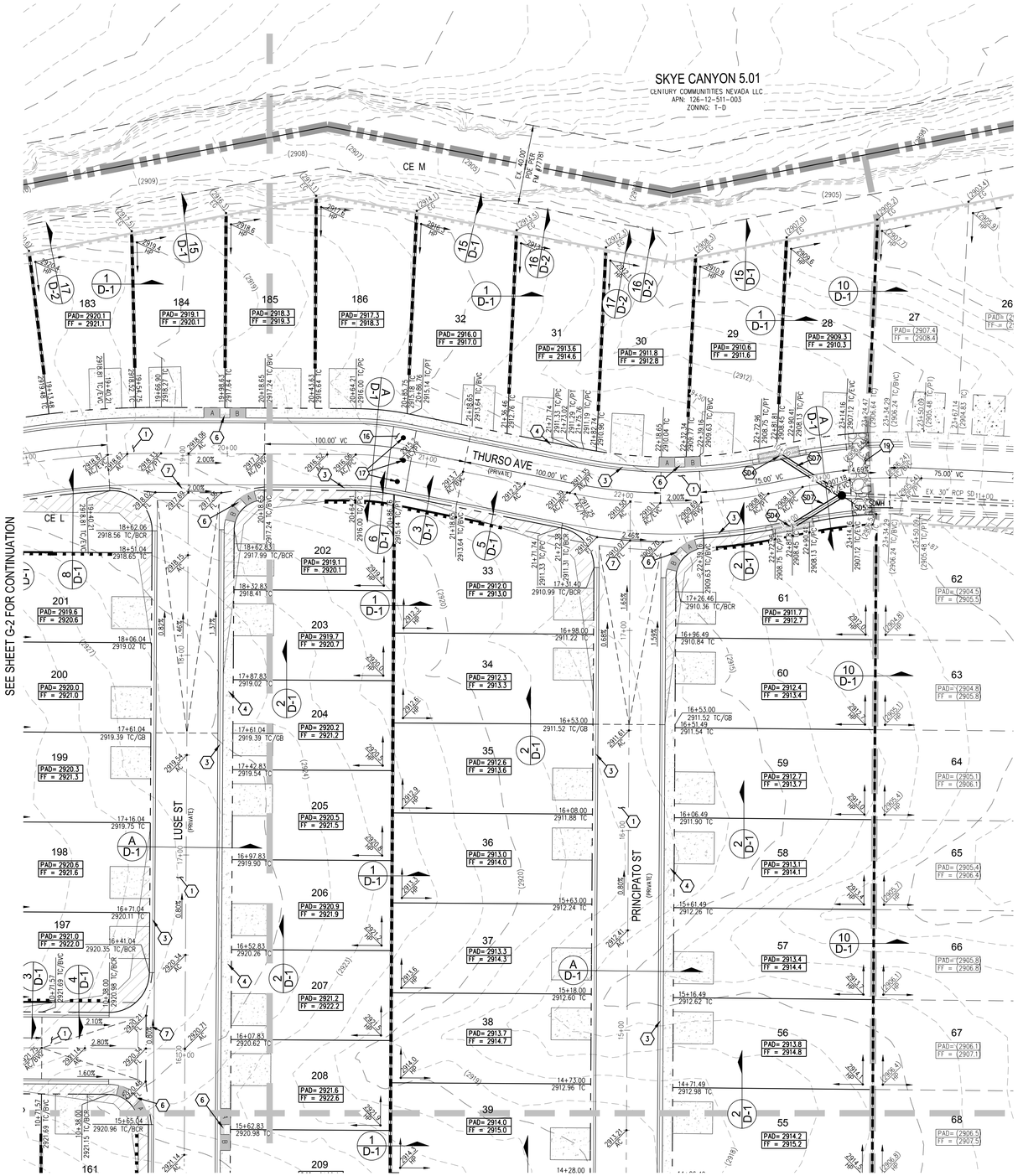

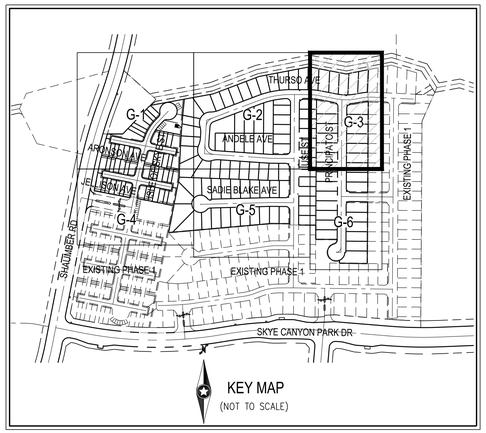

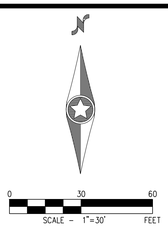

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PROJECT NO. 12203.3BC-LVR DATED 07/01/2020

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4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
4. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
7. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 47 ON SHEET D-3
8. CONSTRUCT 3-FT TRANSITION FROM "L" TYPE CURB TO MOD. ROLL CURB PER DETAIL 40 ON SHEET D-2
9. INSTALL DEPRESSED CURB TO MOD. ROLL CURB TRANSITION PER DETAIL 41 SHEET ON D-2
10. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 42 ON SHEET D-2
11. INSTALL L-CURB OPENING PER DETAIL 43 ON SHEET D-2
12. INSTALL 2.5'X4' NDOT MODIFIED TYPE 2 DROP INLET PER DETAIL R-4.2.1 ON SHEET D-3 AND CCAUSD NO. 421.
13. INSTALL 4-FT CHANNEL TO CONCRETE APRON TRANSITION PER DETAIL 45 ON SHEET D-2
14. INSTALL DROP INLET CONCRETE APRON PER DETAIL R-4.2.7 ON SHEET D-3 AND CCAUSD NO. 421
15. INSTALL STAIRS
16. INSTALL 6" CONCRETE WITH 6" TYPE II AGGREGATE BASE
17. INSTALL REMOVABLE BOLLARD PER CCAUSD NO. 425.51
18. CONSTRUCT 12' ACCESS ROAD WITH 6" TYPE II AGGREGATE BASE COMPACTED AT 90%
19. REMOVE AND DISPOSE OF EXISTING RIP RAP
20. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
21. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 18" CLASS IV RCP STORM DRAIN
- SD2 INSTALL 24" CLASS IV RCP STORM DRAIN
- SD3 INSTALL 10.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD4 INSTALL 20.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD5 REMOVE EXISTING END SECTION AND INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD6 INSTALL RCP END SECTION PER DETAIL 46 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD7 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY DS 5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 245720 — 10/13/2020 DATE

DRAINAGE		PRIVATE	PUBLIC
1. RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	45	–
2. 8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	3,305	–
3. 18" CLASS IV RCP STORM DRAIN	LF	–	109
4. 24" CLASS IV RCP STORM DRAIN	LF	–	33
5. 10.0-FT TYPE "CM-2" DROP INLET	EA	–	1
6. 20.0-FT TYPE "CM-2" DROP INLET	EA	–	2
7. 2.5'X4' TYPE 2 DROP INLET	EA	–	1
8. DROP INLET CONCRETE APRON	EA	–	1
9. 48" TYPE II SD MANHOLE	EA	–	2
10. RCP END SECTION	EA	–	1
11. 24" CLASS II RCP STORM DRAIN	LF	–	66

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
GRADING PLAN III

CITY OF LAS VEGAS, NV

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

S12
S15
R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

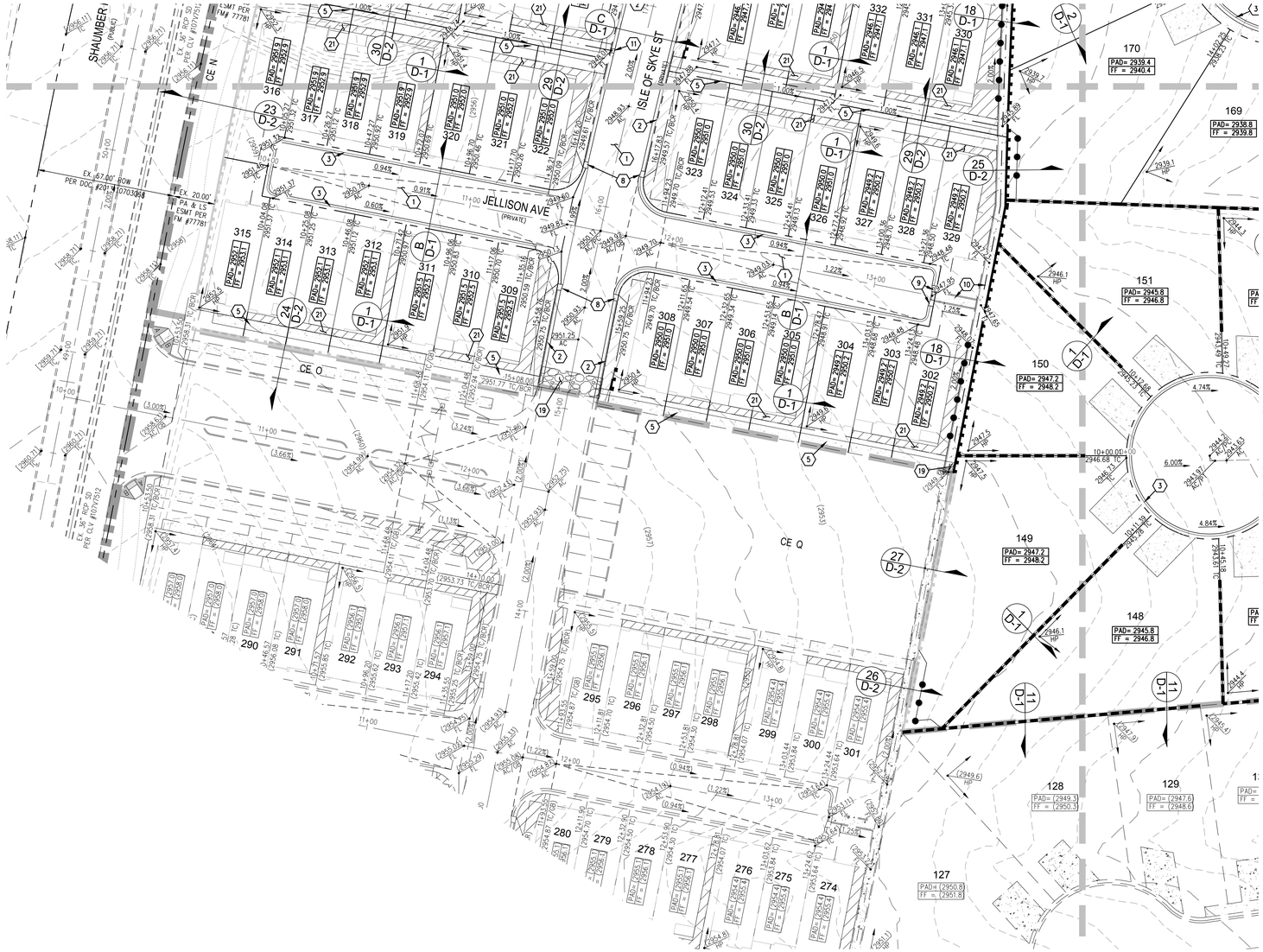
PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER - STATE OF NEVADA - KEVIN M. BROSS - Exp. 12/31/2020 - CIVIL - No. 24572 - 10/13/2020

G-3
SHEET 6 OF 14

I:\cen1909-00 skye canyon ph2\2.10\dwg\improv\phase 2\cen1909grd-2.dwg 10/13/2020 1:21 PM Lewis Abad

SEE SHEET G-1 FOR CONTINUATION


SHAUMBER RD (PUBLIC)
CE N
CE O
CE Q
ISLE OF SKYE ST (PRIVATE)
JELLISON AVE (PRIVATE)
EX. 67.00' ROW PER DOC #20134070303
EX. 20.00' PA & LS ESMT PER FM #77781
EX. 36" RCP SD PER CL #0170312
EX. 30" RCP SD PER CL #0170312
EX. 8" SS PER CL #0170312
EX. 8" W PER CL #0170312
EX. 12" W PER CL #0170312
EX. 8" G PER CL #0170312
EX. 4" G PER CL #0170312
EX. 6" G PER CL #0170312
EX. 2" G PER CL #0170312
EX. 1" G PER CL #0170312
EX. 4" W PER CL #0170312
EX. 6" W PER CL #0170312
EX. 2" W PER CL #0170312
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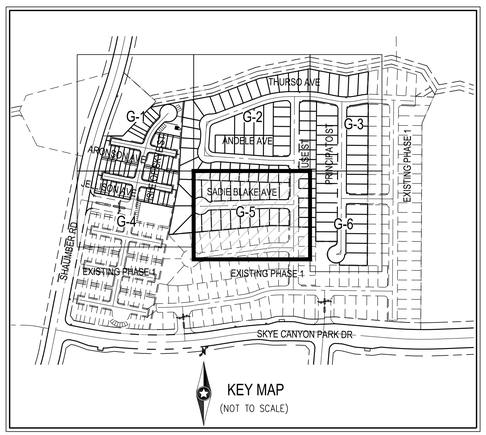
EX. 8" W PER CL #0170312
EX. 12" W PER CL #0170312
EX. 8" SS



N

0 30 60
SCALE - 1"=30' FEET

SOILS REPORT

SOILS REPORT BY GEOTEK RESIDENTIAL, LLC

PROJECT NO. 12203.38C-LVR DATED 07/01/2020

EARTHWORKS

EARTHWORK QUANTITIES (RAW):
CUT= 22,663 CU YDS
FILL= 17,185 CU YDS

EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DISCLAIMER NOTE

1) 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 IN THEIR PROPER LOCATION.

2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
3. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
4. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
5. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
6. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
7. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLEPING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
8. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.

LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDELINES

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

FLOOD ZONE

THE PROJECT SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1750E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
4. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
7. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 47 ON SHEET D-3
8. CONSTRUCT 3-FT TRANSITION FROM "L" TYPE CURB TO MOD. ROLL CURB PER DETAIL 40 ON SHEET D-2
9. INSTALL DEPRESSED CURB TO MOD. ROLL CURB TRANSITION PER DETAIL 41 SHEET ON D-2
10. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 42 ON SHEET D-2
11. INSTALL L-CURB OPENING PER DETAIL 43 ON SHEET D-2
12. INSTALL 2.5'X4' NDOT MODIFIED TYPE 2 DROP INLET PER DETAIL R-4.2.1 ON SHEET D-3 AND CCAUSD NO. 421.
13. INSTALL 4-FT CHANNEL TO CONCRETE APRON TRANSITION PER DETAIL 45 ON SHEET D-2
14. INSTALL DROP INLET CONCRETE APRON PER DETAIL R-4.2.7 ON SHEET D-3 AND CCAUSD NO. 421
15. INSTALL STAIRS
16. INSTALL 6" CONCRETE WITH 6" TYPE II AGGREGATE BASE
17. INSTALL REMOVABLE BOLLARD PER CCAUSD NO. 425.51
18. CONSTRUCT 12' ACCESS ROAD WITH 6" TYPE II AGGREGATE BASE COMPACTED AT 90%
19. REMOVE AND DISPOSE OF EXISTING RIP RAP
20. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
21. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 18" CLASS IV RCP STORM DRAIN
- SD2 INSTALL 24" CLASS IV RCP STORM DRAIN
- SD3 INSTALL 10.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD4 INSTALL 20.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD5 REMOVE EXISTING END SECTION AND INSTALL 48" TYPE II SD MANHOLE PER CCAUSD 405.2
- SD6 INSTALL RCP END SECTION PER DETAIL 46 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD7 INSTALL 24" CLASS II RCP STORM DRAIN

PRIVATE STREET NOTE

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

SURVEY NOTE

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY OS-5307 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

KEVIN M. BROSS, P.E. 24572 — 10/13/2020 DATE

DRAINAGE			PRIVATE	PUBLIC
1.	RIPRAP W/ FILTER FABRIC D50=8", THK=16"	SF	45	–
2.	8' WIDE CONCRETE VALLEY GUTTER W/10" TYPE II AGGREGATE BASE	SF	3,305	–
3.	18" CLASS IV RCP STORM DRAIN	LF	–	109
4.	24" CLASS IV RCP STORM DRAIN	LF	–	33
5.	10.0-FT TYPE "CM-2" DROP INLET	EA	–	1
6.	20.0-FT TYPE "CM-2" DROP INLET	EA	–	2
7.	2.5'X4' TYPE 2 DROP INLET	EA	–	1
8.	DROP INLET CONCRETE APRON	EA	–	1
9.	48" TYPE II SD MANHOLE	EA	–	2
10.	RCP END SECTION	EA	–	1
11.	24" CLASS II RCP STORM DRAIN	LF	–	66

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
1-800-227-2600

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
GRADING PLAN V

S-T-R
S12
T19
R59

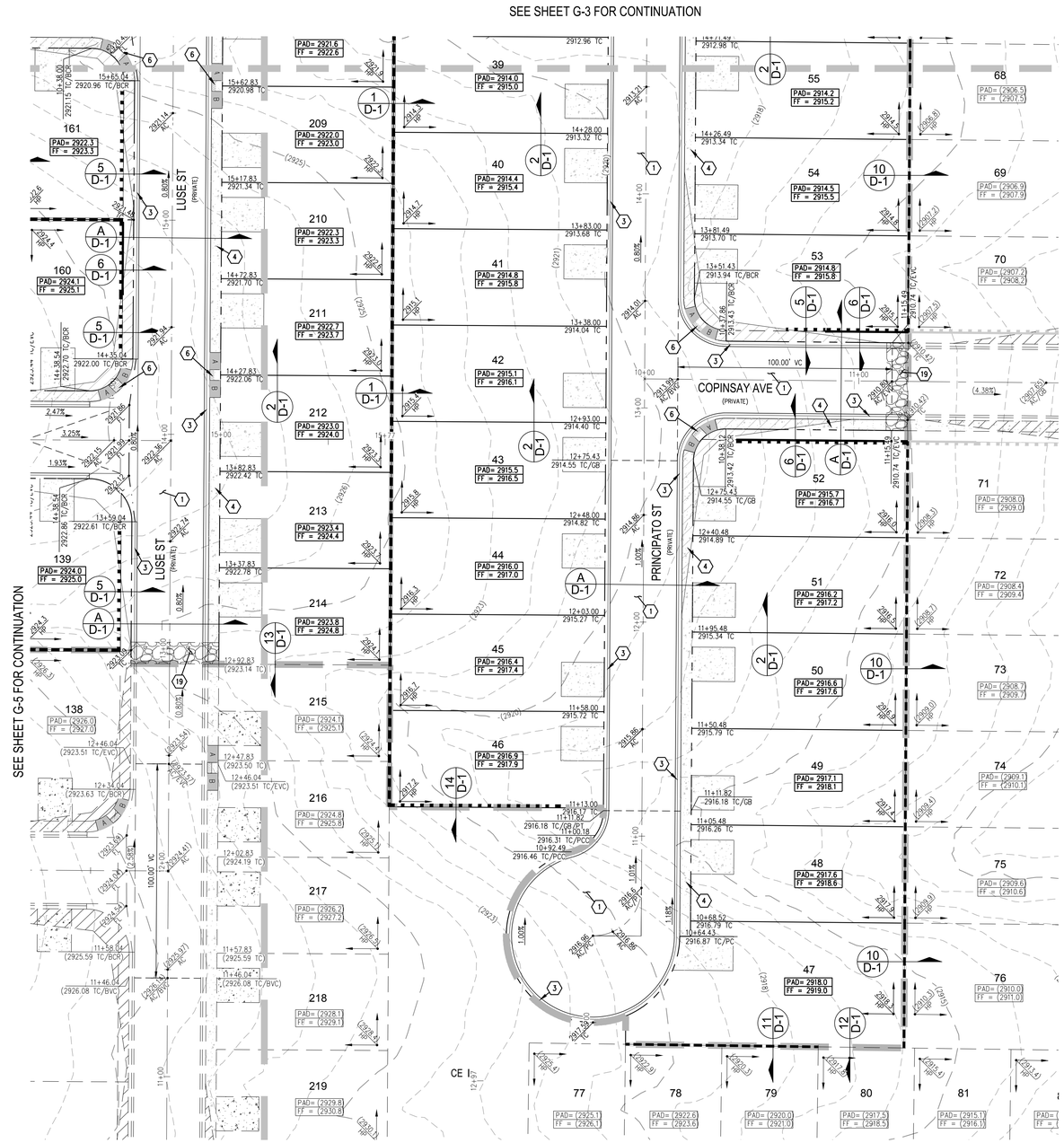
DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER – STATE OF NEVADA
KEVIN M. BROSS
No. 24572
Exp. 12/31/2020
CIVIL
10/13/2020

G-5
SHEET 8 OF 14

J:\cen1909-03 skye canyon parcel 2.10\dwg\vnprep\phase 2\cen1909grd-2.dwg 10/13/2020 1:21 PM Loeta Abad


SEE SHEET G-3 FOR CONTINUATION
SEE SHEET G-5 FOR CONTINUATION
LUSE ST (PRIVATE)
COPINSAY AVE (PRIVATE)
PRINCIPATO ST (PRIVATE)
161 PAD= 2922.3 FF = 2923.3
160 PAD= 2924.1 FF = 2925.1
139 PAD= 2924.0 FF = 2925.0
138 PAD= 2926.0 FF = 2927.0
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216 PAD= 2924.8 FF = 2925.8
217 PAD= 2926.2 FF = 2927.2
218 PAD= 2928.1 FF = 2929.1
219 PAD= 2929.8 FF = 2930.8
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40 PAD= 2914.4 FF = 2915.4
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49 PAD= 2917.1 FF = 2918.1
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2922.70 TC/BCR
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2925.59 TC/BCR
2926.08 TC/BVC
2926.63 TC/BCR
2923.51 TC/EVC
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2924.19 TC
2927.27 TC/EVC
2927.63 TC/BCR
2913.94 TC/BCR
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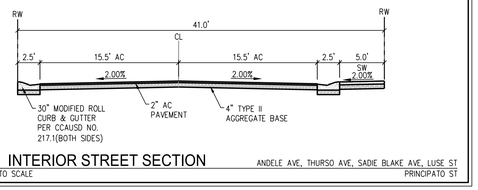
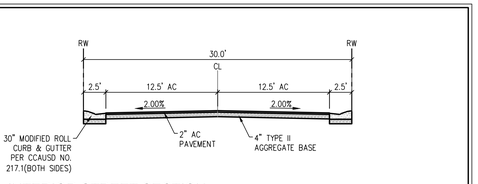


A. INTERIOR STREET SECTION

NOT TO SCALE

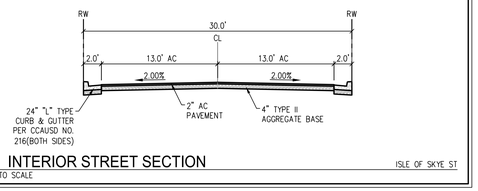
ANDELE AVE, THURSO AVE, SADIE BLAKE AVE, LUSE ST PRINCIPATO ST



B. INTERIOR STREET SECTION

NOT TO SCALE

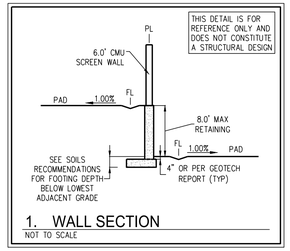
ARONSON AVE, JELLISON AVE



C. INTERIOR STREET SECTION

NOT TO SCALE

ISLE OF SKYE ST



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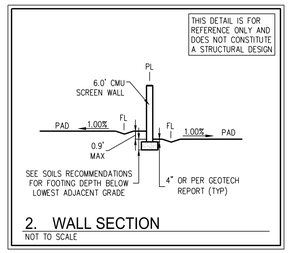

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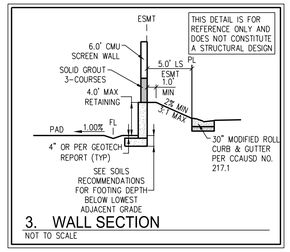

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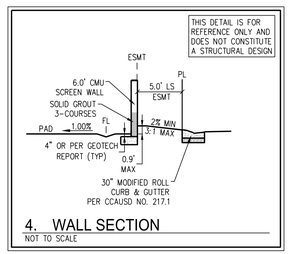

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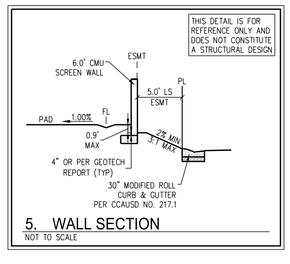

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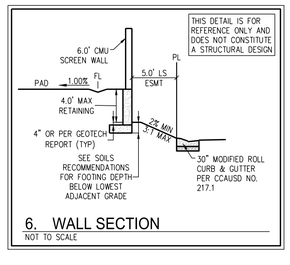

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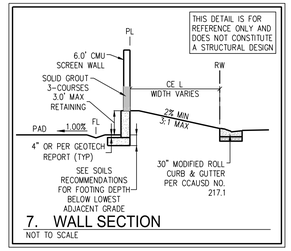

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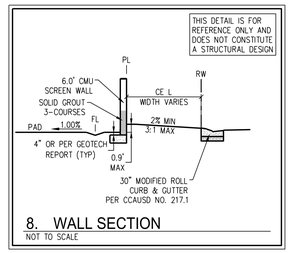

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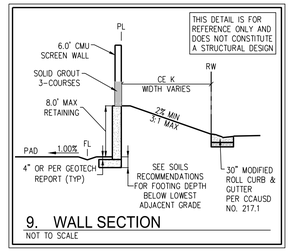

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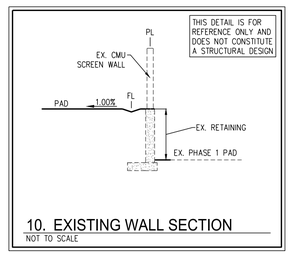

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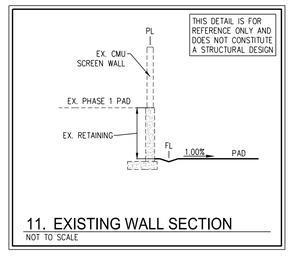

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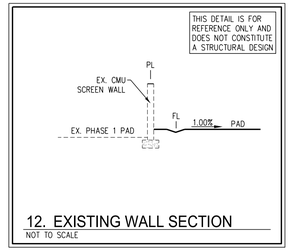

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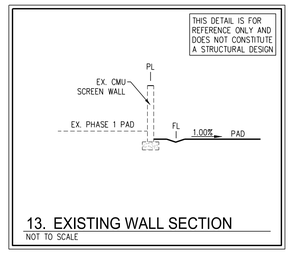

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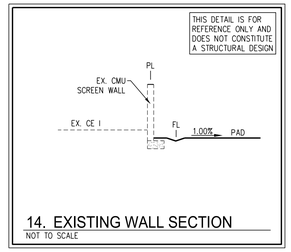

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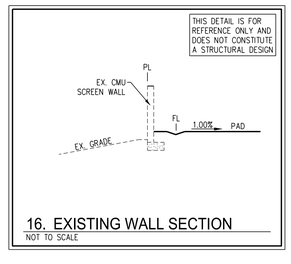

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16. EXISTING WALL SECTION

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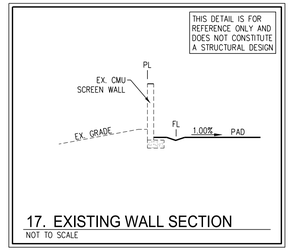

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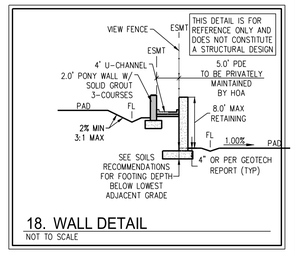

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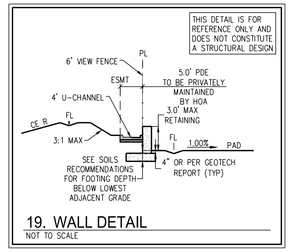

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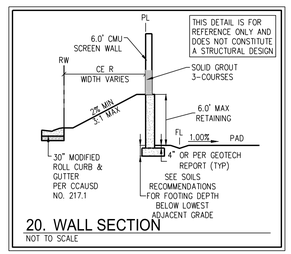

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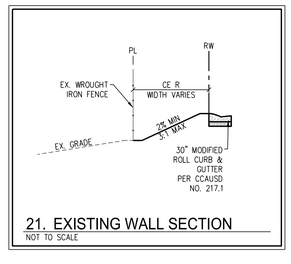


21. EXISTING WALL SECTION

NOT TO SCALE

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
1-800-227-2600

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2

DETAIL SHEET I

S:12
T:19
R:59

DATE: 10/7/20

DRAFTER: LBA

DESIGNER: LBA

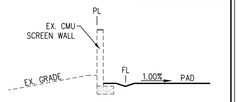
CHECKED: KMB

PROJECT NO.
CEN1909

D-1

SHEET 10 OF 14

K:\cen1909-00 skye canyon parcel 2.10\dwg\improv\phase 2\cen1909stlt-2.dwg 10/13/2020 1:22 PM Loreto Abad



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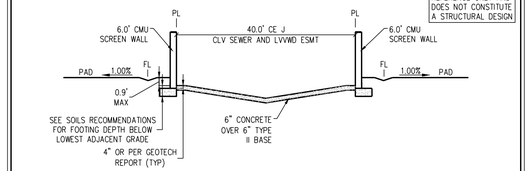

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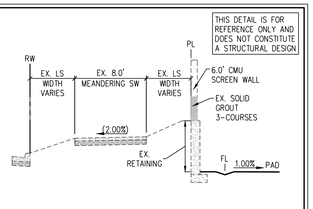

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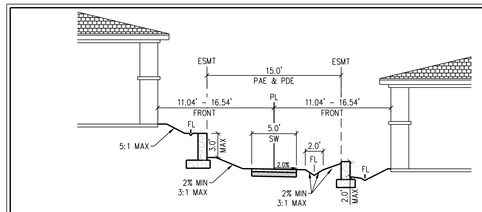

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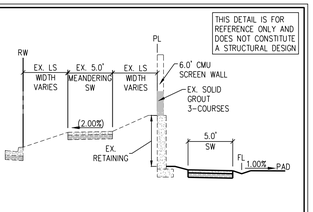

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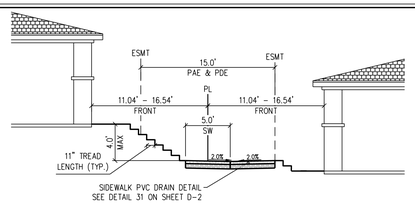

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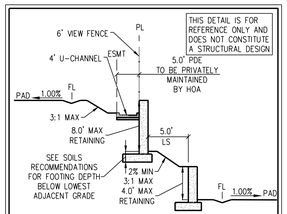

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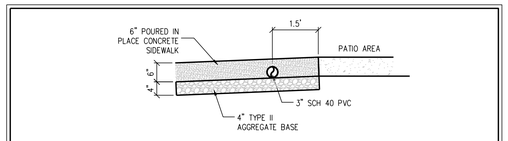
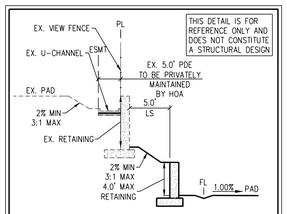


31. SIDEWALK PVC DRAIN DETAIL
NOT TO SCALE



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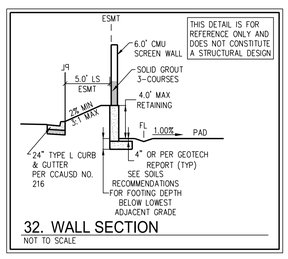

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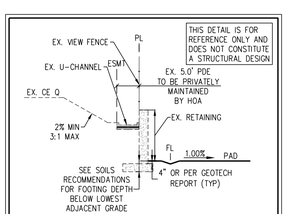

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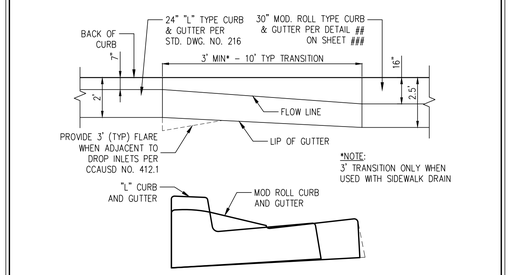
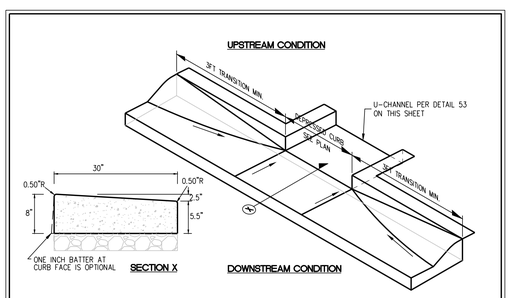
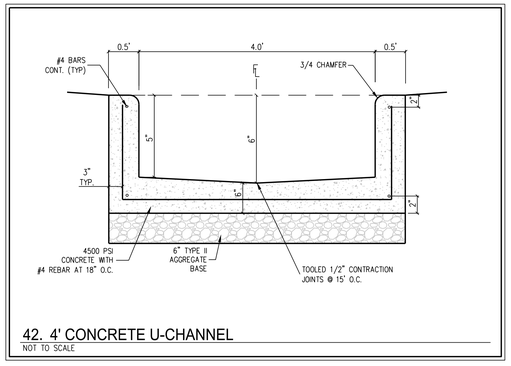
NOT TO SCALE



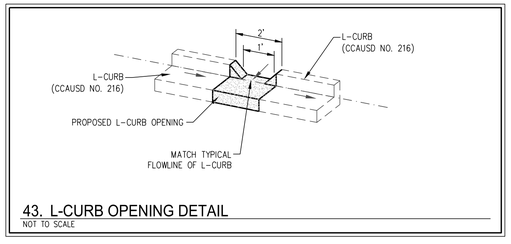
40. 3' TRANSITION FROM 24" "L" C&G TO MODIFIED 30" ROLL C&G
NOT TO SCALE



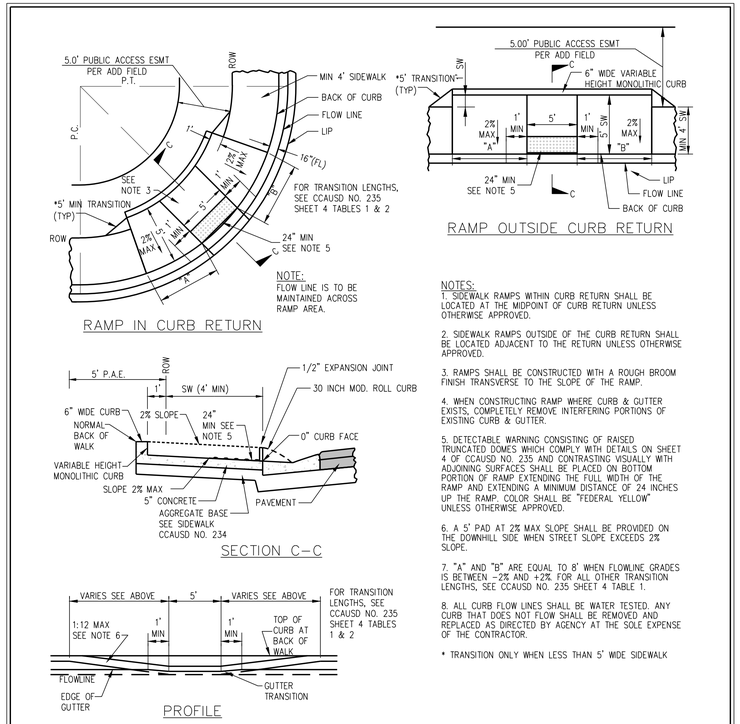
41. DEPRESSED TO ROLL CURB TRANSITION
NOT TO SCALE



42. 4' CONCRETE U-CHANNEL
NOT TO SCALE



43. L-CURB OPENING DETAIL
NOT TO SCALE



NOTES:
1. SIDEWALK RAMPS WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN UNLESS OTHERWISE APPROVED.

2. SIDEWALK RAMPS OUTSIDE OF THE CURB RETURN SHALL BE LOCATED ADJACENT TO THE RETURN UNLESS OTHERWISE APPROVED.

3. RAMPS SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.

4. WHEN CONSTRUCTING RAMP WHERE CURB & GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER.

5. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WHICH COMPLY WITH DETAILS ON SHEET 4 OF CCAUSD NO. 235 AND CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING THE FULL WIDTH OF THE RAMP AND EXTENDING A MINIMUM DISTANCE OF 24 INCHES UP THE RAMP. COLOR SHALL BE "FEDERAL YELLOW" UNLESS OTHERWISE APPROVED.

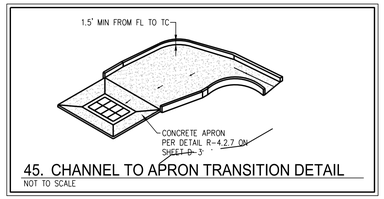
6. A 5' PAD AT 2% MAX SLOPE SHALL BE PROVIDED ON THE DOWNHILL SIDE WHEN STREET SLOPE EXCEEDS 2% SLOPE.

7. "A" AND "B" ARE EQUAL TO 8' WHEN FLOWLINE GRADES IS BETWEEN -2% AND +2% FOR ALL OTHER TRANSITION LENGTHS, SEE CCAUSD NO. 235 SHEET 4 TABLE 1.

8. ALL CURB FLOW LINES SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AS DIRECTED BY AGENCY AT THE SOLE EXPENSE OF THE CONTRACTOR.

* TRANSITION ONLY WHEN LESS THAN 5' WIDE SIDEWALK

44. SIDEWALK RAMP W/ MODIFIED ROLL CURB
NOT TO SCALE



45. CHANNEL TO APRON TRANSITION DETAIL
NOT TO SCALE

Westwood
Phone (702) 284-5300
Fax (702) 284-5399
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.

CITY OF LAS VEGAS, NV

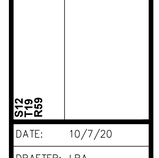
CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
DETAIL SHEET II

S:12
T:19
R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909



D-2
SHEET 11 OF 14

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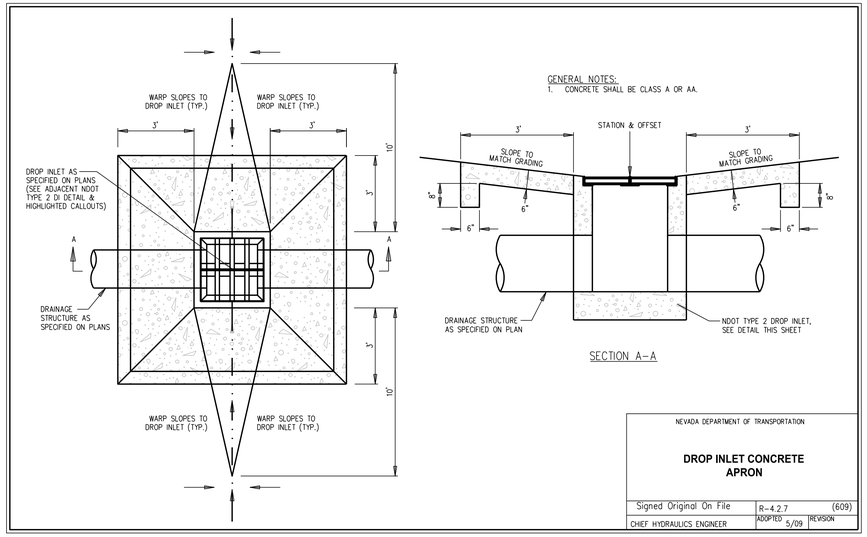


GENERAL NOTES:
1. CONCRETE SHALL BE CLASS A OR AA.

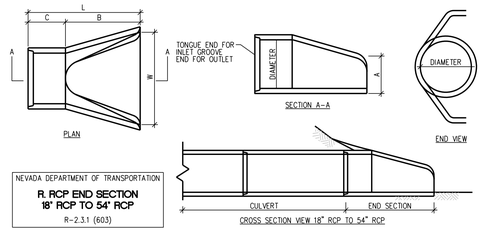
SECTION A–A

NEVADA DEPARTMENT OF TRANSPORTATION		
DROP INLET CONCRETE APRON		
Signed Original On File	R-4.2.7	(609)
CHIEF HYDRAULICS ENGINEER	ADOPTED 5/09	REVISION

DIAMETER	WEIGHT	A	B	C*	L	W
18"	670	9"	2'-1"	2'-1"	4'-2"	3'-0"
24"	1300	9-1/2"	3'-6"	2'-6"	6'-0"	4'-0"
30"	1850	1'-0"	4'-5"	1'-8"	6'-1"	5'-0"
36"	3500	1'-3"	5'-2"	2'-11"	8'-1"	6'-0"
42"	4930	1'-9"	5'-3"	2'-11"	8'-2"	6'-2"
48"	6700	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"
54"	7150	2'-3"	5'-6"	2'-9"	8'-3"	6'-10"

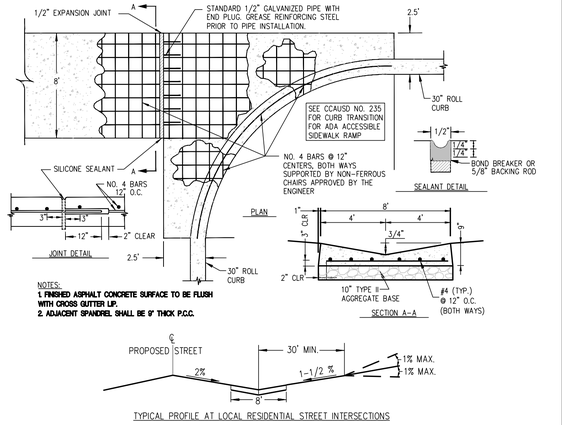
*FOR REFERENCE ONLY

GENERAL NOTES:
1. CLASS AND TYPE OF CONCRETE SHALL BE AS SPECIFIED FOR REINFORCED CONCRETE PIPE.
2. STRUCTURAL DESIGN OF END SECTION SHALL CONFORM TO THAT OF STANDARD REINFORCED CONCRETE CULVERT PIPE.
3. LENGTH OF PIPE SHOWN ON THE DESIGN PLANS DOES NOT INCLUDE CONNECTOR SECTION (LENGTH C).
4. CONTACT HYDRAULICS ENGINEER FOR SIZES NOT LISTED.



NEVADA DEPARTMENT OF TRANSPORTATION
R. RCP END SECTION 18" RCP TO 54" RCP
R-2.3.1 (603)

46. RCP END SECTION DETAIL
NOT TO SCALE



TYPICAL PROFILE AT LOCAL RESIDENTIAL STREET INTERSECTIONS

47. MODIFIED 8' WIDE CROSS GUTTER
NOT TO SCALE

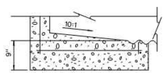
BILL OF MATERIALS (RCP HDPE CMP)

PIPE SIZE (INCH)	SINGLE (ONE GRATE)					DOUBLE (TWO GRATES)					TRIPLE (THREE GRATES)				
	* CONCRETE (CY)		* REINF. (LB.)			* CONCRETE (CY)		* REINF. (LB.)			* CONCRETE (CY)		* REINF. (LB.)		
	BASE QUAN. (H MIN.)	ADD RATE (CY/FT)	BASE QUAN. (H MIN.)	ADD RATE (LB/FT)	STR STEEL (LB)	BASE QUAN. (H MIN.)	ADD RATE (CY/FT)	BASE QUAN. (H MIN.)	ADD RATE (LB/FT)	STR STEEL (LB)	BASE QUAN. (H MIN.)	ADD RATE (CY/FT)	BASE QUAN. (H MIN.)	ADD RATE (LB/FT)	STR STEEL (LB)
≤15	0.71	0.19	36	10	211	1.06	0.26	50	13	397	1.41	0.33	70	17	583
18	0.89	0.20	40	10	306	1.31	0.28	56	13	574	1.72	0.35	77	18	842
24	1.08	0.22	58	12	349	1.56	0.30	80	15	652	2.04	0.37	105	20	956
30	1.28	0.24	63	12	390	1.83	0.31	86	16	729	2.38	0.39	113	20	1068
36	1.50	0.26	67	13	524	2.11	0.33	92	16	980	2.72	0.41	120	21	1435
42	1.71	0.28	90	15	575	2.39	0.35	120	18	1073	3.07	0.43	154	22	1571
48	1.94	0.30	95	15	707	2.68	0.37	127	18	1329	3.42	0.44	163	23	1951

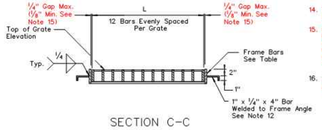
*The Concrete And Reinforcing Quantities Are Based On The H Min. Shown. Increase The Concrete And Reinforcing Base Quantity By The Corresponding Add Rate (Per Foot Of Increased H) If The H Specified Is Larger Than H Min.

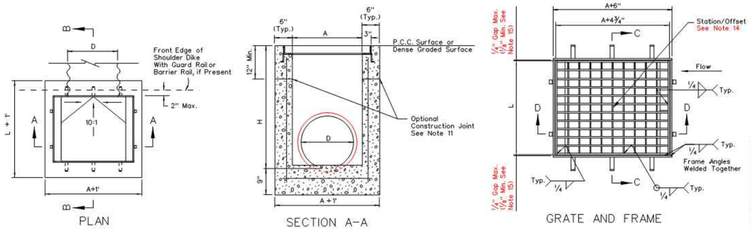
TABLE OF DIMENSIONS (RCP HDPE CMP)

PIPE SIZE (INCH)	A	H Min. (FT)	MAIN BARS (INCH)	FRAME ANGLES (INCH)	FRAME BARS (INCH)	L (FT) SINGLE GRATE	L (FT) DOUBLE GRATE	L (FT) TRIPLE GRATE
≤ 15	2'	2.50	3½ x ⅜	4 X 3 X ⅜	4 X ⅜	2'	4'	6'
18	2'-6"	3.00	4½ x ⅜	5 X 3 X ⅜	5 X ⅜	2'	4'	6'
24	3'	3.50	4½ x ⅜	5 X 3 X ⅜	5 X ⅜	2'	4'	6'
30	3'-6"	4.00	4½ x ⅜	5 X 3 X ⅜	5 X ⅜	2'	4'	6'
36	4'	4.50	5½ x ⅜	6 X 3½ x ⅜	6 X ⅜	2'	4'	6'
42	4'-6"	5.00	5½ x ⅜	6 X 3½ x ⅜	6 X ⅜	2'	4'	6'
48	5'	5.50	5½ x ⅜	6 X 3½ x ⅜	6 X ⅜	2'	4'	6'



SECTION B–B





STATE OF NEVADA DEPARTMENT OF TRANSPORTATION		
DROP INLET TYPE 2		
R-4.2.1 (609)		Signed Original On File
ADOPTED 11/10	REVISED 10/15	CHIEF HYDRAULICS ENGR.

NOTES:
1. All concrete shall be class A or AA.
2. Reinforcing steel shall be No.4 bars with maximum spacing at 18 inch centers, wired tightly at all intersections and embedded 2 inches clear of all concrete surfaces.
3. Exposed edges of concrete shall be chamfered 1 inch.
4. Dimensions may be varied to fit local conditions if ordered by the engineer.
5. Commercial prefabricated gratings approved by the bridge division may be used in lieu of the field-welded grating shown.
6. Extreme low cover situations to be reviewed by hydraulics engineer.
7. Slope catch basin floors 10:1 from all directions toward outlet pipe. If basin is used as a junction, shape flow line(s) to outlet pipe and provide a 10:1 slope to flow line(s).
8. See sheet R-2.9.1 for details if connecting HDPE pipe.
9. A single Type 2 drop inlet shall be constructed unless a double or triple is specified.
10. Single grate configuration shown for clarity. Outside dimensions of each grate shall measure 2 feet by A+4¾".
11. Run rebar continuous thru construction joint. Joint must be a minimum of 3 inches from horizontal bars.
12. Weld one tab on ℄ of grate and remaining two tabs 6 inches from edge of frame. Six tabs per inlet, three tabs on each side
13. Weld tabs 6 inches from edge of frame. Four tabs per grate, two on each side.
14. For multiple grate installations, the station/offset is to the center of the concrete drop inlet structure.
15. Grate is to fit in the frame and be easily removed. If the gap between the grate and frame is greater than 1/8" on each side of the grate, the grate and frame shall be removed and reconstructed to the tolerances specified or, with approval of the engineer, a filler strip up to 1/8" in thickness may be welded flush to the top of the frame to reduce the gap to a maximum of 1/4".
16. Additional pipe penetrations may be placed in any wall. Pipe penetrations are to be to the center of the structure wall unless specified otherwise.

R-4.3

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Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

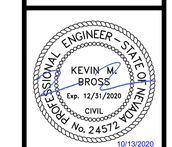
SKYE CANYON 2.10 - PHASE 2

DETAIL SHEET III

S12
T19
R59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909



D-3
SHEET 12 OF 14

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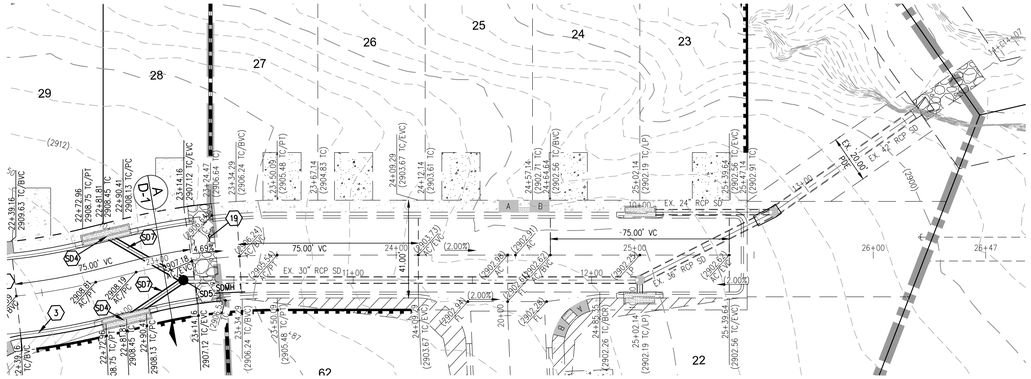
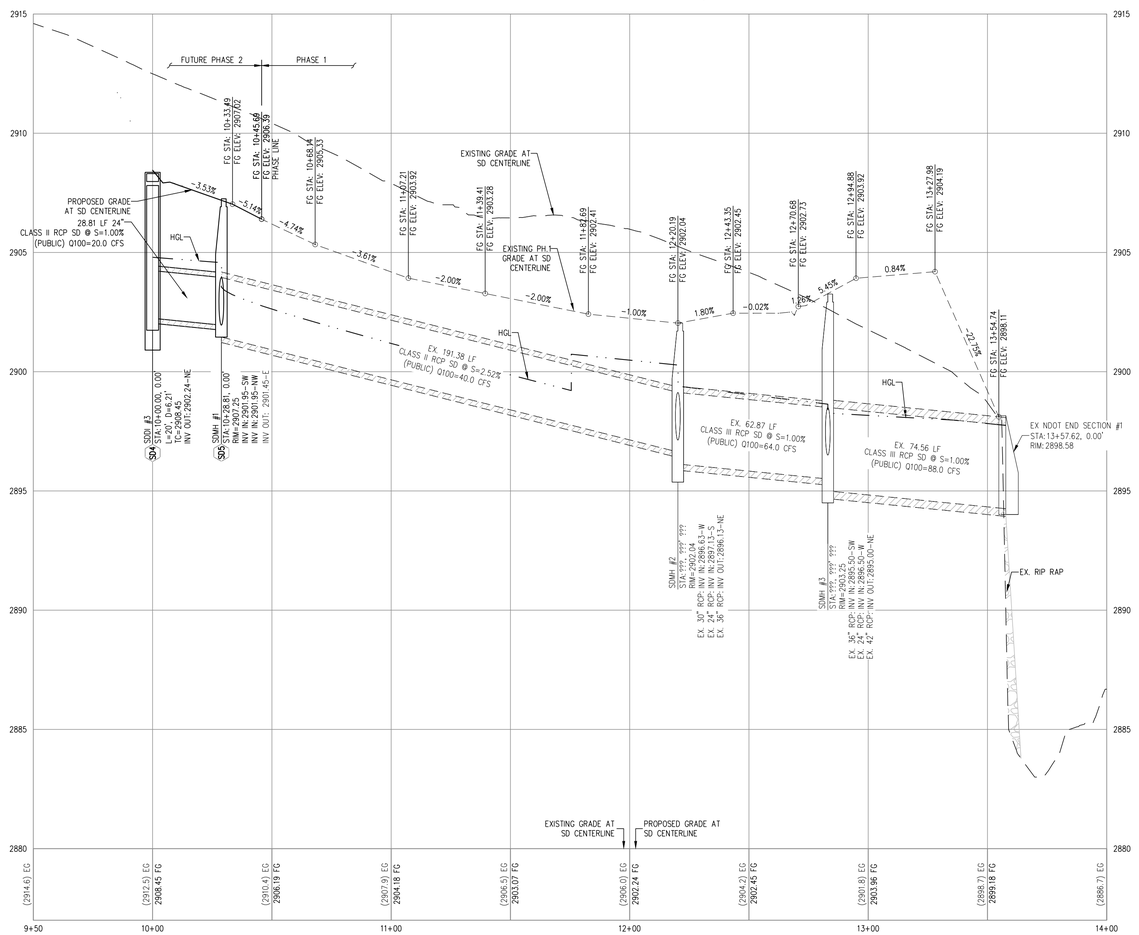
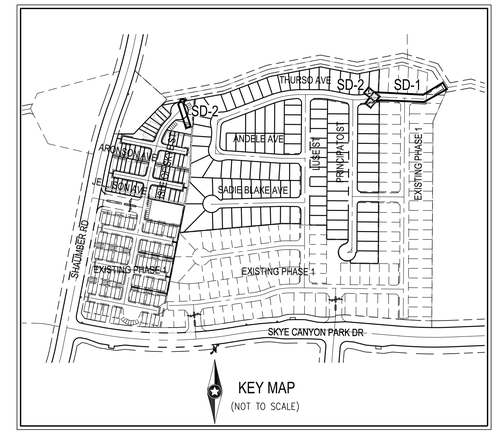


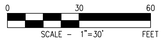
STORM DRAIN EAST MAINLINE - PLAN VIEW



STORM DRAIN EAST MAINLINE - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'





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2) FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

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2. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
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CONSTRUCTION NOTES

1. INSTALL ASPHALT PAVEMENT (SEE DETAILS FOR SECTION)
2. CONSTRUCT 24" "L" TYPE CURB PER CCAUSD NO. 216
3. CONSTRUCT 30" MOD. ROLL TYPE CURB PER CCAUSD NO. 217.1
4. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
5. CONSTRUCT 5-FT WIDE SIDEWALK PER CCAUSD NO. 234 (4" THICK W/ 5" TYPE II AGGREGATE BASE)
6. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES PER CCAUSD NO. 235, CASE I
7. CONSTRUCT MODIFIED 8-FT VALLEY GUTTER PER DETAIL 47 ON SHEET D-3
8. CONSTRUCT 3-FT TRANSITION FROM "L" TYPE CURB TO MOD. ROLL CURB PER DETAIL 40 ON SHEET D-2
9. INSTALL DEPRESSED CURB TO MOD. ROLL CURB TRANSITION PER DETAIL 41 SHEET ON D-2
10. CONSTRUCT 4-FT CONCRETE U-CHANNEL PER DETAIL 42 ON SHEET D-2
11. INSTALL L-CURB OPENING PER DETAIL 43 ON SHEET D-2
12. INSTALL 2.5'X4' NDOT MODIFIED TYPE 2 DROP INLET PER DETAIL R-4.2.1 ON SHEET D-3 AND CCAUSD NO. 421.
13. INSTALL 4-FT CHANNEL TO CONCRETE APRON TRANSITION PER DETAIL 45 ON SHEET D-2
14. INSTALL DROP INLET CONCRETE APRON PER DETAIL R-4.2.7 ON SHEET D-3 AND CCAUSD NO. 421
15. INSTALL STAIRS
16. INSTALL 6" CONCRETE WITH 6" TYPE II AGGREGATE BASE
17. INSTALL REMOVABLE BOLLARD PER CCAUSD NO. 425.S1
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19. REMOVE AND DISPOSE OF EXISTING RIP RAP
20. INSTALL RIP RAP W/ 6" TYPE II GRANULAR BEDDING WITH FILTER FABRIC D50=8", T=16"
21. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA FOR CROSS-LOT DRAINAGE

STORM DRAIN CONSTRUCTION NOTES

- SD1 INSTALL 18" CLASS IV RCP STORM DRAIN
- SD2 INSTALL 24" CLASS IV RCP STORM DRAIN
- SD3 INSTALL 10.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
- SD4 INSTALL 20.0-FT TYPE "CM2" DROP INLET PER CCAUSD 403
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- SDN INSTALL RCP END SECTION PER DETAIL 46 ON SHEET D-3 (NDOT STD DWG. R-2.31)
- SD7 INSTALL 24" CLASS II RCP STORM DRAIN

SURVEY NOTE

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
PLAN AND PROFILE - EAST MAINLINE

S:12
T:19
R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB

PROJECT NO.
CEN1909

PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24578
10/13/2020

SD-1
SHEET 13 OF 14

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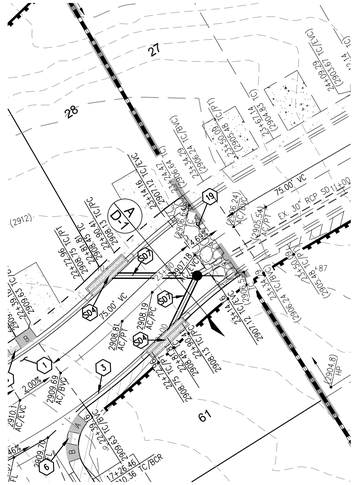
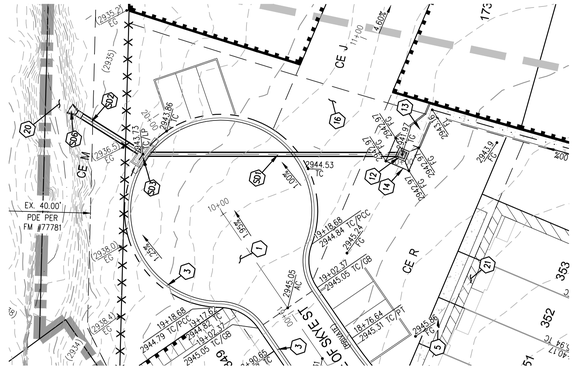
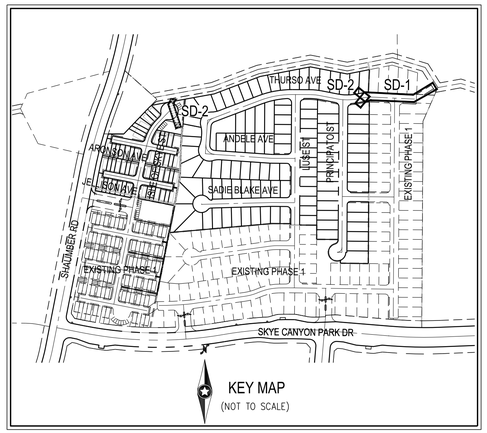


STORM DRAIN NORTH LATERAL - PLAN VIEW



STORM DRAIN WEST MAINLINE - PLAN VIEW



SCALE - 1"=30' (0, 30, 60 FEET)

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STORM DRAIN NORTH LATERAL - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'

STORM DRAIN WEST MAINLINE - PROFILE VIEW

HORIZ: 1" = 30'
VERT: 1" = 3'

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AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
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Suite 216
Las Vegas, NV 89118
westwoodps.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP.	APP. DATE

CITY OF LAS VEGAS, NV

CENTURY COMMUNITIES

SKYE CANYON 2.10 - PHASE 2
PLAN AND PROFILE - NORTH LATERAL & WEST MAINLINE

S:12 T:19 R:59

DATE: 10/7/20
DRAFTER: LBA
DESIGNER: LBA
CHECKED: KMB
PROJECT NO. CEN1909

SD-2
SHEET 14 OF 14

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ADDENDUM TO THE TECHNICAL DRAINAGE STUDY

Skye Canyon Parcel 2.10

OCTOBER 2020

PREPARED FOR:

Century Communities
Las Vegas, Nevada

PREPARED BY:

Westwood

Westwood

5740 S. Arville St., Suite 216
Las Vegas, NV 89118

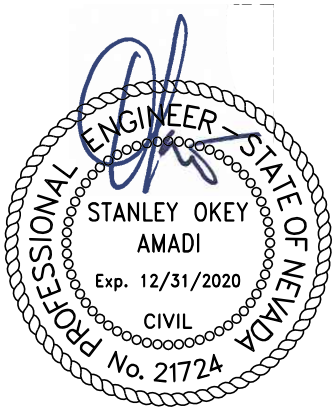
main (702) 284-5300

Skye Canyon Parcel 2.10 – TDS Add

City of Las Vegas, Nevada

Prepared For:
Century Communities
6345 S. Jones Boulevard, Suite 400
Las Vegas, NV 89118
Phone: 702-266-8500 ▪ Fax: 702-266-86236

Prepared By:
Westwood Professional Services
5740 S. Arville Street, Suite 216
Las Vegas, NV 89118
Phone: (702) 284-5300
Fax: (702) 284-5339



Project Number: CEN1909.000
Date: October 2020

Stanley Okey Amadi, P.E., CFM
NV Professional Engineer No. 21724
Assisted by: Kevin Hurtado, E.I.

Westwood

5740 S. Arville St., Suite 216
Las Vegas, NV 89118

Main (702) 284-5300

westwoodps.com
(888) 937-5150

CEN1909.000

October 06, 2020

Jennifer Shinn, P.E.
City of Las Vegas
333 Rancho Drive (7th Floor)
Las Vegas, NV 89101

Subject: Technical Drainage Study Addendum for Skye Canyon Parcel 2.10

Mr. Shinn:

This letter certifies that all items provided on electronic submittal CD matches the *Technical Drainage Study Addendum for Skye Canyon Parcel 2.10* bound paper version.

Respectfully Submitted,
WESTWOOD PROFESSIONAL SERVICES

Kevin Hurtado – Kevin Hurtado
Graduate Engineer – Water Resources Department

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DRAINAGE STUDY INFORMATION FORM

Name of Development: Skye Canyon Parcel 2.10 - TDS Addendum Date: October 2020

Location of Development: a) Descriptive (Cross Streets): North/South: Shaumber Road

East/West: Skye Canyon Park Drive

b) Section: 12 Township: 19 South Range: 59 East

c) APN: 126-23-610-002

Name of Owner: Century Communities Nevada, LLC

Telephone No.: 702-220-6565 Fax No.: 702-220-6566 E-mail Address: Paul.Kenner@centurycommunities

Address: 6345 South Jones Boulevard Las Vegas NV 89118

Contact Person – Name: Stanley Okey Amadi, P.E., CFM Telephone No.: (702) 284-5300

*E-mail Address: stanley.amadi@westwoodps.com Fax No.: (702) 284-5399

Firm: Westwood Professional Services

Address: 5740 S. Arville #216 Las Vegas NV 89118

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivison 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: 41.30 +/- acres Being Developed/Disturbed: 41.3 +/- acres

2. Is a portion or all of the subject property located in a 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

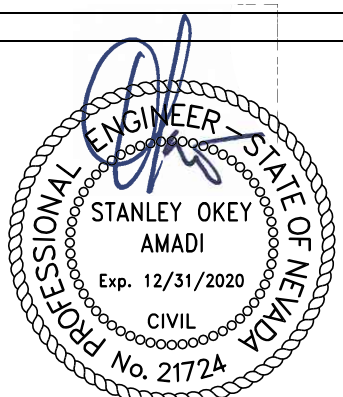
5. Approximate upstream land area which drains to the subject site: 0.10 +/- Sq.Miles

6. Has the site drainage been evaluated in the past? ☒ Yes** ☐ No If yes, please identify documentation:

Master Drainage Study Update #4 for Skye Canyon (DS 4420) & Technical Drainage Study for Skye Canyon Infrastructure Phase 3B/3C (DS 4953)

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: Flows will discharge north into the adjacent .... arroyo thru storm drains at the northeast and northwest boundaries of the 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.

*Newly 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

Updated 05/01/2008

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main (702) 284-5300

CEN1909.000

October 08, 2020

Ms. Jennifer Shinn, P.E.,
City of Las Vegas Department of Public Works
333 N. Rancho Drive – 7th Floor
Las Vegas, NV 89106

Subject: Addendum to the Technical Drainage Study for Skye Canyon Parcel 2.10 (DS05307)

Dear Ms. Shinn,

This letter is submitted in response to the comments contained in the August 20, 2020 review memorandum, regarding the above referenced project. A copy of the City of Las Vegas Department of Public Works comment letter has been provided in Appendix A. The comments in the review memorandum have been individually addressed as follows:

1. **Comment**: *Provide a copy of the zoning/planning conditions associated with this site with the next submittal to verify compliance with conditions. Flood Control will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the City Council). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.*

   Response: Acknowledged. Please refer to Appendix C for a copy of the NOFA associated with the proposed development.

2. **Comment**: *Sites with a grade difference of 2 feet above or below existing grades are required to have approval from the City of Las Vegas Planning and Development Department. The engineer must submit copies of the grading plans and detail sheet with a letter justifying the grade difference to the City Planning Department (229-6301). The engineer must provide City Planning approval with the next submittal.*

   Response: Acknowledged. Please refer to Appendix C for a copy of the 2-ft grade difference approval from CLV Planning Department.

3. **Comment**: *It is noted that unauthorized filling of the upstream washes with Skye Canyon has occurred. Per email correspondences on August 13, 2020 and filed meeting on August 18, 2020, it was determined that an update to the Master Drainage is Required. No City of Las Vegas Building and Safety permits will be issued from improvement plans associated with Phases 3B and 3C, including Parcel 2.10 until the Master Drainage study Update is conditionally approved.*

   Response: It has been acknowledged that an update to the Master Drainage Study is required to address the subject fill. The update study is currently in process and is anticipated to be approved prior to the approval of the improvement plans for the subject site. However,

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in the interest of time, we respectfully request that the approval of the Master Drainage Study Update not hold up the issuance of permits for the site.

4. **Comment**: *Private streets must be public drainage easements. Provide a note on the grading plans "Note: All private streets are P.U.E., Public Sewer Easements, and Public Drainage Easements to be privately maintained by HOA."*

   Response: The grading plans have been revised to include the subject note. Please refer to Appendix G for the revised grading plans provided with this submittal.

5. **Comment**: *This site accepts offsite flows and conveys them through the site. Provide the "Public Drainage Easement to be Privately Maintained" and show the easements on the grading plan. Public drainage easements must be recorded by separate document prior to the final acceptance of the improvement plans unless they are to be recorded by parcel or final map.*

   Response: Acknowledged. Please note that the offsite flow is from Shaumber Road and is conveyed thru the site along Isle of Skye Street (a private interior street). All private streets and common elements are designated public drainage easements per the drainage easement note on the grading plans as addressed in Comment No.4 above.

6. **Comment***: All storm drain inlets that are more than 10'- deep (e.g. SDDI #6) require a special structural detail and calculations. Submit structural design and calculations to City Building & Safety Department for review and approval prior to the final approval of the drainage study.*

   Response: Acknowledged. Structural design calculations and details for SDDI #2 will be submitted to the City Building & Safety Department for review and approval.

7. **Comment**: *Revise the sections callouts for Lots 62, 115, 252, 308, and 335 to show solid grouted walls along the adjacent streets.*

   Response: Acknowledged. The section call outs have been revised as noted.

8. **Comment**: *There are 2 Exhibit "F" s. Revise the Interim Condition Drainage Map to Exhibit "E" per the report.*

   Response: Acknowledged. The Interim Condition Drainage Map sheet call out has been corrected to Exhibit E.

9. **Comment***: Aviara Avenue appears to be graded such that offsite flows enter the project stie. Provide a flow split calculation at the intersection of Shaumber Road and Aviara Avenue, if applicable, as well as a hydraulic cross section across Aviara Avenue to determine the normal depth in the entry road. Revise all pertinent models, tables, exhibits, and plan accordingly.*

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15. **Comment:** *Revise the Ultimate Condition 100-year U-Gutter Summary Table to reflect the depth of flow value for Section U1 as shown on the FlowMaster model.*

    Response: Acknowledged. The U-Gutter Summary Table has been revised as noted. Please refer to the revised Exhibit F provided in Appendix B.

16. **Comment:** *Review and Revise the plan and profiles such that the names of the drop inlets match the titled computation sheets. For example, there is a Drop Inlet Sizing Computation Sheet titled SDDI #1 for the NDOT Type 2 inlet but the plan and profiles label the inlet as 12.5 CM2.*

    Response: Acknowledged. The drop inlet call outs on the plans have been revised to match the titled computation sheets. Please refer to the revised improvement plans provided with this submittal.

17. **Comment:** *The HGL shown on Sheet DS1 of Phase 1 does not match the Interim WSPG model. Revise accordingly.*

    Response: The HGL on Sheet SD1 of the Phase 1 Plans has been revised as noted. Please refer to the revised plans provided with this submittal.

Additional Revisions:
At the developer's request, the grading design of the site has been revised since the previous submittal by elevating the overall finished grade elevations to provide better earthwork balance and reduce the amount of cut. With the grading revisions, the drainage pattern and flow paths remain the same as previously designed. However, some street slopes and facility slopes as well as the pads and finished floor elevations have been slightly revised. Likewise, the storm drain inverts have been adjusted as a result of the revised grading. Thus, the applicable street and facility design computations have been revised accordingly. The finished floor analyses have also been revised. The revised street flow and U-gutter computations have been provided in Appendix D. The revised storm drain WSPGW models are provided in Appendix E and the revised finished floor analyses are provided in Appendix F.

We believe the above responses and revisions provided on the plans have adequately satisfied your concerns in the subject review memorandum. The revised plan, profile, and detail sheets adopting the revisions addressed in this letter have been included in Appendix G. If you have any questions or require additional information, please do not hesitate to contact our office at (702) 284-5300.

Respectfully Submitted,
WESTWOOD PROFESSIONAL SERVICES

Stanley Okey Amadi, P.E., CFM
Project Manager

cc: Mark Failla, P.E., CFM
Kevin Bross, P.E.

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APPENDIX

Appendix A – CLV Comment Letter

Appendix B – Revised Drainage Exhibits

Appendix C – NOFAs & 2-ft Grade Difference Approval

Appendix D – FlowMaster Normal Depth Computations
- Street Hydraulic Sections
- U-gutter Calculations

Appendix E – Revised Storm Drain Computations
- WSPGW Models
  - SDI.WSW (East - Interim Condition)
  - SDE.WSW (East - Ultimate Condition)
  - SDW.WSW (West – Ultimate Condition)
- Lateral Loss Storm Drain Computations

Appendix F – Revised Finished Floor Computations

Appendix G – CD of Electronic Files & Revised Improvement Plans

APPENDIX A

CLV Comment Letter

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM				DATE: August 20, 2020
TO: Land Development Services Department of Building & Safety				FROM: Jennifer Shinn, P.E. Flood Control, Engr. Associate Department of Public Works
SUBJECT:	Drainage Study for:			COPIES TO:
Skye Canyon Parcel 2.10				Westwood Professional Services
Cross Streets:	Shaumber Rd & Skye Canyon Park Dr			Century Communities
File Number:	F:\Depot\DSMemos\DS05307A.doc			Bart Anderson, P.E., DevCo
Parcel Number:	126-12-610-002			
Zoning Action:				
FEMA Flood Zone	YES	NO X		
Proposed Storm Drain	YES X	NO		

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1st Submittal	7/29/2020	8/20/2020	See Comments Below	$400.00	3931436: $400
			TOTAL FEES (LDDRS):	$400.00	----

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:
X	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. Provide a copy of the zoning/planning conditions associated with this site with the next submittal to verify compliance with conditions. *Flood Control* will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the *City Council*). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.
2. Sites with a grade difference of 2 feet above or below existing grades are required to have approval from the City of Las Vegas Planning and Development Department. The engineer must submit copies of the grading plans and detail sheet with a letter justifying the grade difference to the City Planning Department (229-6301). The engineer must provide City Planning approval with the next submittal.
3. It is noted that unauthorized filling of the upstream washes within Skye Canyon has occurred. Per email correspondences on August 13, 2020 and field meeting on August 18, 2020, it was determined that an update to the Master Drainage Study is required. No City of Las Vegas Building and Safety permits will be issued for improvement plans associated with Phases 3B and 3C, including Parcel 2.10 until the Master Drainage Study Update is conditionally approved.
4. Private streets must be public drainage easements. Provide a note on the grading plans "Note: All private streets are P.U.E., Public Sewer Easements, and Public Drainage Easements to be privately maintained by HOA."

5. This site accepts offsite flows and conveys them through the site. Provide the "Public Drainage Easement to be Privately Maintained" and show the easements on the grading plan. Public drainage easements must be recorded by separate document prior to the final acceptance of the improvement plans unless they are to be recorded by parcel or final map.
6. All storm drain inlets that are more than 10'-deep (e.g. SDDI #6) require a special structural detail and calculations. Submit structural design and calculations to City Building & Safety Department for review and approval prior to the final approval of the drainage study.
7. Revise the section callouts for Lots 62, 115, 252, 308, and 335 to show solid grouted walls along the adjacent streets.
8. There are 2 Exhibit "F"s. Revise the Interim Condition Drainage Map to Exhibit "E", per the report.
9. Aviara Avenue appears to be graded such that offsite flows enter the project site. Provide a flow split calculation at the intersection of Shaumber Road and Aviara Avenue, if applicable, as well as a hydraulic cross section across Aviara Avenue to determine the normal depth in the entry road. Revise all pertinent models, tables, exhibits, and plans accordingly.
10. Provide an additional cross section in Shaumber Road, north of Aviara Avenue to demonstrate the flows impacting this area and to determine normal depth calculations along this stretch of roadway.
11. Label Facilities P7 and P27 as called out in the referenced flows on Exhibits E and F.
12. Revise the equation used for U-3 to include Subbasin ON1(D).
13. Provide the hydraulic model for Section 3 and Section 8 - Full Street.
14. Provide an Emergency Overflow calculation for EO1 during the Ultimate Condition.
15. Revise the Ultimate Condition 100-year U-Gutter Summary Table to reflect the depth of flow value for Section U1 as shown on the FlowMaster model.
16. Review and revise the plan and profiles such that the names of the drop inlets match the titled computation sheets. For example, there is a Drop Inlet Sizing Computation Sheet titled SDDI #1 for the NDOT Type 2 inlet but the plan and profiles label the inlet as a 12.5' CM2.
17. The HGL shown on Sheet DS1 of Phase 1 does not match the Interim WSPG model. Revise accordingly.

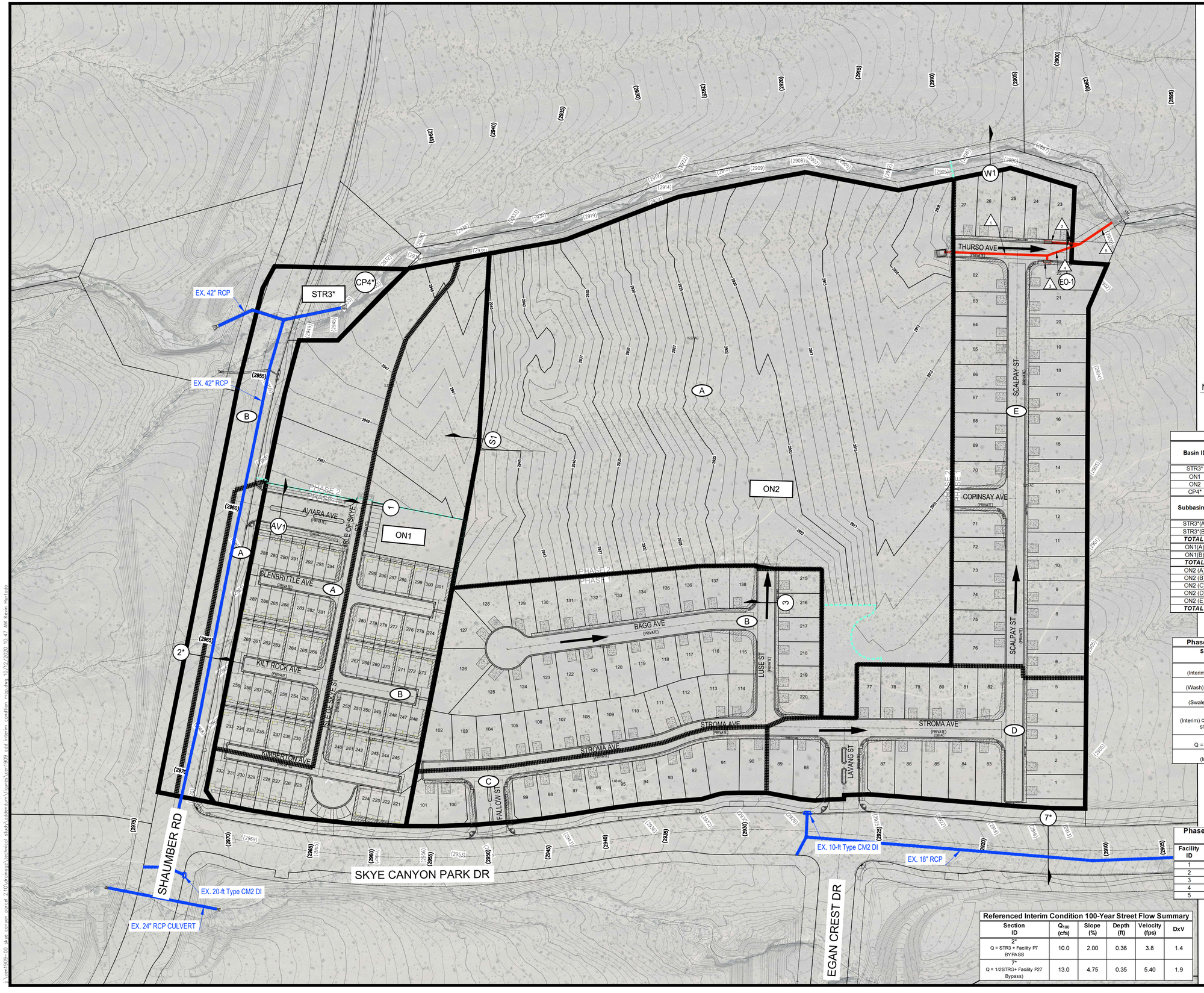
NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained 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.

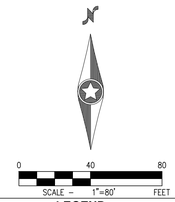
END OF REMARKS
JKS

T/R/S: T19S/R59E/S12
AREA F-12

APPENDIX B

Revised Drainage Exhibits





LEGEND

- BASIN BOUNDARY
- PRORATED SUBBASIN BOUNDARY
- EXISTING DRAINAGE FACILITY
- PROPOSED DRAINAGE FACILITY
- ID — BASIN ID
- ID — PRORATED SUBBASIN ID
- ID — CONCENTRATION POINT ID
- FLOW DIRECTION
- ID — FLOWMASTER SECTION
- U GUTTER CONVEYANCE
- ID — FACILITY ID

NOTES:

* Referenced from D54953 Skye Canyon Infrastructure Phase 3B & 3C

Phase 1 Interim Prorated Flow Summary

Basin ID	Q_{100} (cfs)	Q_{10} (cfs)	Area (acres)	100-yr Unit Flow (cfs/acre)	10-yr Unit Flow (cfs/acre)
STR3*	9	5	2.4	3.8	2.1
ON1	26	12	8.4	3.1	1.4
ON2	88	42	30.2	2.9	1.4
CP4*	176	69	N/A	N/A	N/A

Subbasin ID	Q_{100} (cfs)	Q_{10} (cfs)	Area (acres)	100-yr Unit Flow (cfs/acre)	10-yr Unit Flow (cfs/acre)
STR3*(A)	3	2	0.7	3.8	2.1
STR3*(B)	6	3	1.6	3.8	2.1
TOTAL	***9***	***5***	***2.4***		
ON1(A)	12	5	3.8	3.1	1.4
ON1(B)	14	7	4.6	3.1	1.4
TOTAL	***26***	***12***	***8.4***		
ON2 (A)	44	21	15.0	2.9	1.4
ON2 (B)	15	7	5.3	2.9	1.4
ON2 (C)	5	2	1.7	2.9	1.4
ON2 (D)	9	4	3.0	2.9	1.4
ON2 (E)	15	7	5.2	2.9	1.4
TOTAL	***88***	***42***	***30.2***		

Phase 1 Interim Condition 100-Year Street Flow Summary

Section ID	Q_{100} (cfs)	Slope (%)	Depth (ft)	Velocity (fps)	DxV
3 (Interim) Q = ON2 (B)	15.0	0.80	0.47	2.49	1.17
W-1 (Wash) Q= CP4 + ON1	202.0	2.70	1.93	8.91	17.20
S-1 (Swale) Q = ON1(B)	14.0	1.25	0.94	3.94	3.70
1 (Interim) Q = 1/2(ON1 (A)) + STR3* (A)	9.0	2.00	0.44	3.88	1.71
AV1 Q = STR3* (A)	3.0	3.00	0.31	3.50	1.09
		3.66	0.30	3.80	1.14
EO-1 (Interim)	88.0	N/A	0.79	2.72	2.15

Phase 1 Interim Condition Recommended Flood Control Facilities Summary

Facility ID	Facility Description	Q_{100} (CFS)	Notes
1	30" RCP	59	
2	12.5' Type CM2 DI w/ 24" RCP lateral	24	
3	12.5' Type CM2 DI w/ 24" RCP lateral	24	
4	36" RCP	73.5	
5	42" RCP	88	

Referenced Interim Condition 100-Year Street Flow Summary

Section ID	Q_{100} (cfs)	Slope (%)	Depth (ft)	Velocity (fps)	DxV
2* Q = STR3 + Facility P7 BYPASS	10.0	2.00	0.36	3.8	1.4
7* Q = 1/2STRG+ Facility P27 Bypass)	13.0	4.75	0.35	5.40	1.9

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Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoods.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.
1					

CENTURY COMMUNITIES NEVADA, LLC

SKYE CANYON PARCEL 2.10

PHASE 1 INTERIM CONDITION DRAINAGE MAP

DATE: JULY 2020

DRAFTER: KH

DESIGNER: KH

CHECKED: SOA

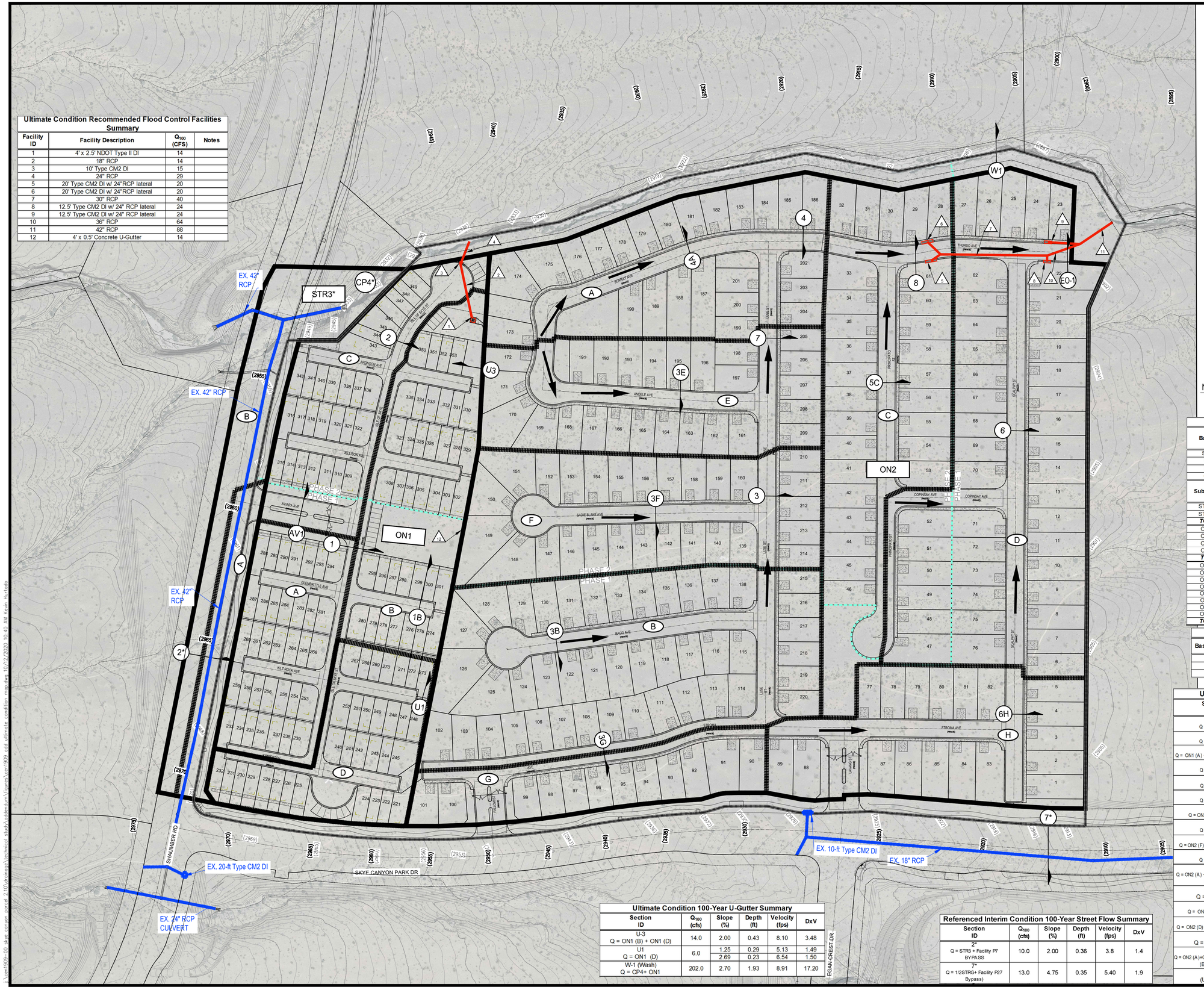
PROJECT NO.
CEN1909-001

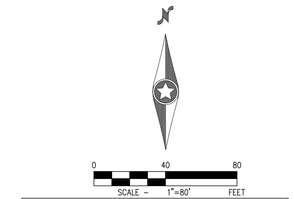
EXHIBIT E
SHEET 1 OF 1

J:\cen1909-00 skye canyon parcel 2.10\drainage\technical study\exhibits\figures\cen1909 ph1 interim condition map.dwg 10/12/2020 10:47 AM Kevin Harlacki

Ultimate Condition Recommended Flood Control Facilities Summary

Facility ID	Facility Description	Q_{100} (CFS)	Notes
1	4' x 2.5' NDOT Type II DI	14	
2	18" RCP	14	
3	10' Type CM2 DI	15	
4	24" RCP	29	
5	20' Type CM2 DI w/ 24"RCP lateral	20	
6	20' Type CM2 DI w/ 24"RCP lateral	20	
7	30" RCP	40	
8	12.5' Type CM2 DI w/ 24" RCP lateral	24	
9	12.5' Type CM2 DI w/ 24" RCP lateral	24	
10	36" RCP	64	
11	42" RCP	88	
12	4' x 0.5' Concrete U-Gutter	14	





LEGEND

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- PROPOSED DRAINAGE FACILITY
- ID — BASIN ID
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- FLOW DIRECTION
- ID — FLOWMASTER SECTION
- U GUTTER CONVEYANCE
- ID — FACILITY ID

NOTES:

* Referenced from D54953 Skye Canyon Infrastructure Phase 3B & 3C

Ultimate Prorated Flow Summary

Basin ID	Q_{100} (cfs)	Q_{10} (cfs)	Area (acres)	100-yr Unit Flow (cfs/acre)	10-yr Unit Flow (cfs/acre)
STR3*	9	5	2.4	3.8	2.1
ON1	26	12	8.4	3.1	1.4
ON2	88	42	30.2	2.9	1.4
CP4*	176	69	N/A	N/A	N/A
Subbasin ID	**Q_{100} (cfs)**	**Q_{10} (cfs)**	**Area (acres)**	**100-yr Unit Flow (cfs/acre)**	**10-yr Unit Flow (cfs/acre)**
STR3*(A)	3	2	0.7	3.8	2.1
STR3*(B)	6	3	1.6	3.8	2.1
TOTAL	***9***	***5***	***2.4***		
ON1(A)	6	3	1.9	3.1	1.4
ON1(B)	8	4	2.7	3.1	1.4
ON1(C)	6	3	2.1	3.1	1.4
ON1(D)	6	3	1.8	3.1	1.4
TOTAL	***26***	***12***	***8.4***		
ON2 (A)	10	5	3.5	2.9	1.4
ON2 (B)	15	7	5.3	2.9	1.4
ON2 (C)	12	6	4.1	2.9	1.4
ON2 (D)	18	9	6.2	2.9	1.4
ON2 (E)	9	4	3.1	2.9	1.4
ON2 (F)	10	5	3.4	2.9	1.4
ON2 (G)	5	2	1.7	2.9	1.4
ON2 (H)	9	4	3.0	2.9	1.4
TOTAL	***88***	***42***	***30.2***		

Ultimate Condition Flow Rate Summary

Basin/Concentration Point ID	Area (ac)	Q_{10} (cfs)	Q_{100} (cfs)
ON1	8.5	12	26
ON2	30.0	41	88
STR3*	2.4	5	9

Ultimate Condition 100-Year Street Flow Summary

Section ID	Q_{100} (cfs)	Slope (%)	Depth (ft)	Velocity (fps)	DxV
1 Q = ON1 (A)	6.0	2.00	0.39	3.49	1.36
1B Q = ON1 (B)	8.0	0.94	0.39	2.37	0.92
		1.22	0.37	2.65	0.98
2 Q = ON1 (A) + STR3* (A)+ ON1 (c)	15.0	2.00	0.41	3.69	1.51
3G Q = ON2(G)	5.0	4.25	0.34	4.48	1.52
		5.25	0.33	4.85	1.60
3B Q = ON2(B)	15.0	5.75	0.36	5.52	1.99
3F Q = ON2 (F)	10.0	6.00	0.32	5.11	1.64
3 Q = ON2 (B) + ON2 (F)	25.0	0.80	0.52	2.99	1.55
3E Q = ON2 (E)	9.0	6.00	0.31	4.99	1.55
7 Q = ON2 (F)+ON2 (B) + ON2 (E)	34.0	0.80	0.56	3.38	1.89
4A Q = ON2 (A)	10.0	5.80	0.32	5.04	1.61
4 Q = ON2 (A) +ON2 (B) + ON2 (E) + ON2 (F)	44.0	2.00	0.54	4.93	2.66
5C Q = ON2 (C)	12.0	0.80	0.44	2.37	1.04
6H Q = ON2 (H) + ON2 (G)	14.0	1.56	0.42	3.19	1.34
		5.75	0.35	5.43	1.90
6 Q = ON2 (D) + ON2 (G) + ON2 (H)	32.0	0.80	0.56	3.30	1.85
AV1 Q = STR3* (A)	3.0	3.00	0.31	3.50	1.09
		3.66	0.30	3.80	1.14
8 Q = ON2 (A)+ON2 (B)+ON2 (C)+ON2 (E)+ON2 (F)	56.0	2.00	0.57	5.43	3.10
EO-1 (Ultimate)	48.0	N/A	0.53	2.20	1.17

Ultimate Condition 100-Year U-Gutter Summary

Section ID	Q_{100} (cfs)	Slope (%)	Depth (ft)	Velocity (fps)	DxV
U-3 Q = ON1 (B) + ON1 (D)	14.0	2.00	0.43	8.10	3.48
U1 Q = ON1 (D)	6.0	1.25	0.29	5.13	1.49
		2.69	0.23	6.54	1.50
W-1 (Wash) Q = CP4+ ON1	202.0	2.70	1.93	8.91	17.20

Referenced Interim Condition 100-Year Street Flow Summary

Section ID	Q_{100} (cfs)	Slope (%)	Depth (ft)	Velocity (fps)	DxV
2" Q = STR3 + Facility P7 BYPASS	10.0	2.00	0.36	3.8	1.4
7* Q = 1/2STR9+ Facility P27 Bypass)	13.0	4.75	0.35	5.40	1.9

Westwood
5740 S. Arville Street
Suite 216
Las Vegas, NV 89118
Phone (702) 284-5300
Fax (702) 284-5399
westwoods.com
Westwood Professional Services, Inc.

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CENTURY COMMUNITIES NEVADA, LLC

SKYE CANYON PARCEL 2.10

ULTIMATE CONDITION DRAINAGE MAP

DATE: JULY 2020

DRAFTER: KH

DESIGNER: KH

CHECKED: SOA

PROJECT NO.
CEN1909-001

EXHIBIT F

SHEET 1 OF 1

J:\cen1909_00 skye canyon parcel 2.10\drainage\technical study\exhibits\Figures\cen1909 add ultimate condition_map.dwg 10/7/2020 10:40 AM Kevin Hurtado

APPENDIX C

NOFAs & 2-ft Grade Difference Approval

LAS VEGAS CITY COUNCIL

CAROLYN G. GOODMAN
Mayor

STAVROS S. ANTHONY
Mayor Pro Tem

MICHELE FIORE
CEDRIC CREAR
BRIAN KNUDSEN
VICTORIA SEAMAN
OLIVIA DÍAZ

SCOTT D. ADAMS
City Manager

DEPARTMENT OF PLANNING

ROBERT SUMMERFIELD
DIRECTOR

DEVELOPMENT SERVICES CENTER

333 N. RANCHO DRIVE
3RD FLOOR
LAS VEGAS, NV 89106

702.229.6301 | VOICE
702.474.7463 | FAX
711 | TTY

cityoflasvegas
lasvegasnevada.gov

July 23, 2020

Mr. Paul Kenner
Century Communities of Nevada
6345 South Jones Boulevard, Suite #400
Las Vegas, Nevada 89118

RE: MOD-78707 [PRJ-78670] - MAJOR MODIFICATION RELATED TO TMP-78708
CITY COUNCIL MEETING OF JULY 22, 2020

Dear Mr. Kenner:

The City Council at a regular meeting held on July 22, 2020 voted to ***APPROVE*** your request for a Major Modification of the Kyle Canyon Development Standards TO AMEND THE MINIMUM LOT SIZE FOR THE SKYE R-2 (MEDIUM-LOW DENSITY RESIDENTIAL) DISTRICT TO ALLOW A 1,280 SQUARE-FOOT LOT SIZE FOR TOWNHOMES (APNs Multiple), T-D (Traditional Development) Zone, Ward 6 (Fiore) [PRJ-78670].

The Notice of Final Action was filed with the Las Vegas City Clerk on July 23, 2020.

Sincerely,

Robert Summerfield

Robert Summerfield, AICP
Director
Department of Planning

RTS:PL:clb

cc: Ms. Chelsea Jensen
Westwood Professional Services
5740 South Arville Street, Suite #216
Las Vegas, Nevada 89118

LAS VEGAS CITY COUNCIL

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cityoflasvegas
lasvegasnevada.gov

July 23, 2020

Mr. Paul Kenner
Century Communities of Nevada
6345 South Jones Boulevard, Suite #400
Las Vegas, Nevada 89118

RE: TMP-78708 [PRJ-78670] - TENTATIVE MAP RELATED TO MOD-78707 CITY COUNCIL MEETING OF JULY 22, 2020

Dear Mr. Kenner:

The City Council at a regular meeting held on July 22, 2020 voted to ***APPROVE*** your request for a Tentative Map FOR A 133-LOT TOWNHOME RESIDENTIAL SUBDIVISION on a portion of 41.27 acres on the northeast corner of W Skye Canyon Park Drive and Shaumber Road (APN 126-12-610-002), T-D (Traditional Development) Zone [ML (Medium-Low) Special Land Use Designation], Ward 6 (Fiore) [PRJ-78670].

This approval is subject to the following conditions:

Planning

1. Approval of the Tentative Map shall be for no more than four (4) years. If a Final Map is not recorded on all or a portion of the area embraced by the Tentative Map within four (4) years of the approval of the Tentative Map, this action is void.

2. Approval of MOD-78707 shall be required, if approved.

3. Street names must be provided in accordance with the City's Street Naming Regulations.

4. A fully operational fire protection system, including fire apparatus roads, fire hydrants and water supply, shall be installed and shall be functioning prior to construction of any combustible structures.

5. In conjunction with creation, declaration and recordation of the subject common-interest community, and prior to recordation of the Covenants, Codes and Restrictions ("CC&R"), or conveyance of any unit within the community, the Developer is required to record a Declaration of Private Maintenance Requirements ("DPMR") as a covenant on all associated properties, and on behalf of all current and future property owners. The DPMR is to include a listing of all privately owned and/or maintained infrastructure improvements, along with assignment of maintenance responsibility for each to the common interest community or the respective individual property owners, and is to provide a brief description of the required level of maintenance for privately maintained components. The DPMR must be reviewed and approved by the City of Las Vegas Department of Field Operations prior to recordation, and must include a statement that all properties within the community are subject to assessment for all associated costs should private maintenance obligations not be met, and the City of Las Vegas be required to provide for said maintenance. Also, the CC&R are to include a statement of obligation of compliance with the DPMR. Following recordation, the Developer is to submit copies of the recorded DPMR and CC&R documents to the City of Las Vegas Department of Field Operations.

6. All development is subject to the conditions of City Departments and State Subdivision Statutes.

Public Works

7. Private streets must be granted and labeled on the Final Map for this site as Public Utility Easements (P.U.E.), Public Sewer Easements, and Public Drainage Easements with private surface maintenance by the Homeowner's Association.

8. Obtain all required downstream sewer easements prior to issuance of permits.

9. Provide a minimum 5-foot public utility easement on both sides of the private streets to accommodate the separation from dry utilities and sanitary sewer lines.

10. Common Element "U" shall be granted as a minimum 30-foot wide Public Sewer Easement. Additionally, the 40-foot Las Vegas Valley Water District Easement in Common Element "R" shall also be granted as a Public Sewer Easement. No trees or landscape taller than 3 feet shall be allowed within Public Sewer Easements.

11. Prior to the submittal of civil plans, provide a letter from the Master Developer or Master Developer's Engineer to the Sanitary Sewer Planning Section of the Department of Public Works documenting how the total number of proposed residential units of Parcels 2.08, 2.09, and 2.10 will connect to the public sewers in Skye Canon Park Drive and Skye Village Road and will not exceed the maximum number of units identified in the Skye Canyon West Wastewater Master Plan Update dated July 2019 at each point of connection.

12. All landscaping and private improvements installed with this project shall be situated and maintained so as to not create sight visibility obstructions for vehicular traffic at all development access drives and abutting street intersections.

13. An update to the previously approved Traffic Impact Analysis (TIA) must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits, the submittal of any construction drawings, or the recordation of a Final Map, whichever may occur first. The Traffic Impact Analysis shall include a pedestrian circulation/access plan to identify nearby pedestrian attractors and recommend measures to accommodate pedestrians, such as but not limited to pedestrian access, crosswalk, pedestrian activated flashers and temporary sidewalks. Comply with the recommendations of the approved update to the Traffic Impact Analysis prior to occupancy of the site. No recommendation of the approved Traffic Impact Analysis, nor compliance therewith, shall be deemed to modify or eliminate any condition of approval imposed by the Planning Commission or the City Council on the development of this site. The TIA required by TMP-78615 may be used to satisfy this condition so long as all of the original Parcel 2.10 site is addressed in that TIA.

14. A Drainage Plan and Technical Drainage Study must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits or submittal of any construction drawings, whichever may occur first. Provide and improve all drainageways recommended in the approved drainage plan/study. The developer of this site shall be responsible to construct such neighborhood or local drainage facility improvements as are recommended by the City of Las Vegas Neighborhood Drainage Studies and approved Drainage Plan/Study concurrent with development of this site.

15. Comply with all applicable conditions of approval for the Sky Canyon 4 Parent Tentative Map (TMP-77328) and any other site related actions.

The Notice of Final Action was filed with the Las Vegas City Clerk on July 23, 2020.

Sincerely,

Robert Summerfield, AICP
Director
Department of Planning

RTS:PL:clb

cc: Ms. Chelsea Jensen
Westwood Professional Services
5740 South Arville Street, Suite #216
Las Vegas, Nevada 89118

Westwood

5740 S. Arville St., Suite 216
Las Vegas, NV 89118

Main (702) 284-5300

westwoodps.com
(888) 937-5150

CEN1909

August 31, 2020

Linda Hartman-Maynard
City of Las Vegas
Department of Building and Safety
333 S. Rancho Drive
Las Vegas, NV 89101

Re: Justification Letter for Proposed 2-foot Grade Difference from Existing Ground for Skye Canyon 2.10
(APN: 126-12-610-002)

Dear Ms. Hartman-Maynard:

Westwood Professional Services, respectfully submits this justification letter in support of proposed grades greater than 2-feet above and below existing ground on the subject site. The subject site is in the Skye Canyon master planned community near the northeast corner of Skye Canyon Park Drive and Shaumber Road. The parcel acreage is approximately 41.3 gross acres. The proposed development will consist of 220 single family residential units and 133 single family attached units.

Although the intent is to match existing grade, this site must accommodate the grade of the existing conditions surrounding the site. The pending plans for a subdivision just east of our site, an existing natural drainage channel to the north of our site, and approved infrastructure plans for Skye Canyon Park Drive and Shaumber Road were all taken into consideration. Matching the existing grade is unachievable due to the need to meet the drainage criteria along with existing topography and surrounding infrastructure.

Thank you for considering this justification letter. Please contact me at (702) 284-5300 if you have any questions.

Sincerely,

WESTWOOD PROFESSIONAL SERVICES

Kevin Bross, P.E.
Project Manager II

CC:
Todd Winner, Century Communities
Chelsea Jensen, Westwood Professional Services

PLANS APPROVED
PLANNING
Dept. of Planning
City of Las Vegas, Nevada
2' GRADE DIFFERENCE ONLY
LHM AUG 3 1 2020

Conforms to the minimum requirement of LVMC Title 19; applicable Master Plan Development standards and/or Conditions of Approval. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

APPENDIX D

FlowMaster Normal Depth Computations

Ultimate Condition Street Section

Worksheet for Section 1 (Half Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Discharge	6.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.50
0+01	0.48
0+01	0.00
0+02	0.13
0+02	0.17
0+15	0.43

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.50)	(0+02, 0.13)	0.013
(0+02, 0.13)	(0+15, 0.43)	0.016

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.39 ft
Roughness Coefficient	0.016
Elevation	0.39 ft
Elevation Range	0.0 to 0.5 ft
Flow Area	1.7 ft²
Wetted Perimeter	13.0 ft
Hydraulic Radius	0.13 ft
Top Width	12.58 ft
Normal Depth	0.39 ft
Critical Depth	0.45 ft
Critical Slope	0.665 %
Velocity	3.49 ft/s
Velocity Head	0.19 ft
Specific Energy	0.58 ft
Froude Number	1.667

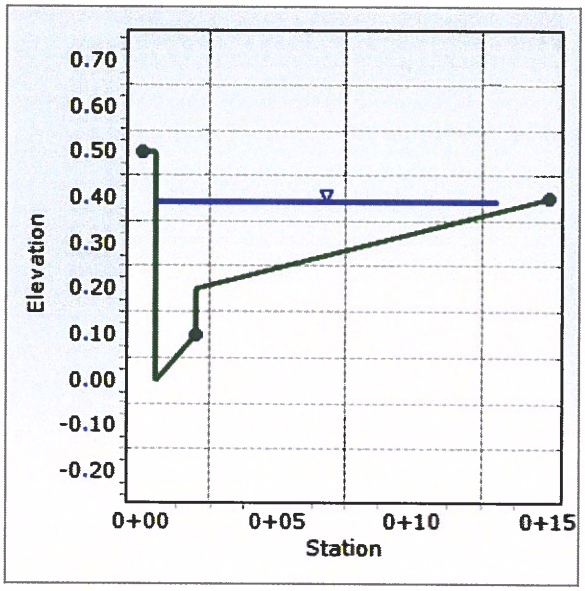
Worksheet for Section 1 (Half Street)

Results	
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.39 ft
Critical Depth	0.45 ft
Channel Slope	2.000 %
Critical Slope	0.665 %

Cross Section for Section 1 (Half Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Normal Depth	0.39 ft
Discharge	6.00 cfs



Worksheet for Section 1b (Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.940 %
Discharge	8.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+15	0.43
0+28	0.17
0+28	0.13
0+29	0.00
0+29	0.06
0+30	0.38
0+30	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+28, 0.13)	0.016
(0+28, 0.13)	(0+30, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.39 ft
Roughness Coefficient	0.015
Elevation	0.39 ft
Elevation Range	0.00 to 0.43 ft
Flow Area	3.4 ft²
Wetted Perimeter	26.3 ft

Worksheet for Section 1b (Min %)

Results	
Hydraulic Radius	0.13 ft
Top Width	25.95 ft
Normal Depth	0.39 ft
Critical Depth	0.40 ft
Critical Slope	0.685 %
Velocity	2.37 ft/s
Velocity Head	0.09 ft
Specific Energy	0.48 ft
Froude Number	1.161
Flow Type	Supercritical

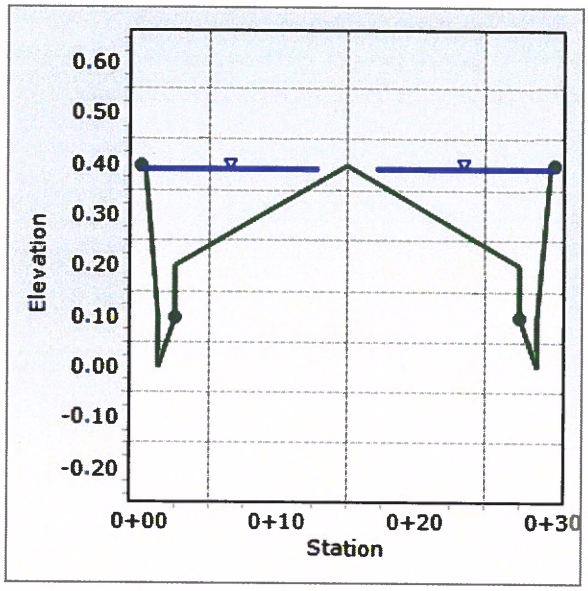
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.39 ft
Critical Depth	0.40 ft
Channel Slope	0.940 %
Critical Slope	0.685 %

Cross Section for Section 1b (Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.940 %
Normal Depth	0.39 ft
Discharge	8.00 cfs



Worksheet for Section 1b (Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	1.220 %
Discharge	8.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+15	0.43
0+28	0.17
0+28	0.13
0+29	0.00
0+29	0.06
0+30	0.38
0+30	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+28, 0.13)	0.016
(0+28, 0.13)	(0+30, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.37 ft
Roughness Coefficient	0.015
Elevation	0.37 ft
Elevation Range	0.00 to 0.43 ft
Flow Area	3.0 ft²
Wetted Perimeter	24.2 ft

Worksheet for Section 1b (Max %)

Results	
Hydraulic Radius	0.13 ft
Top Width	23.86 ft
Normal Depth	0.37 ft
Critical Depth	0.40 ft
Critical Slope	0.688 %
Velocity	2.65 ft/s
Velocity Head	0.11 ft
Specific Energy	0.48 ft
Froude Number	1.311
Flow Type	Supercritical

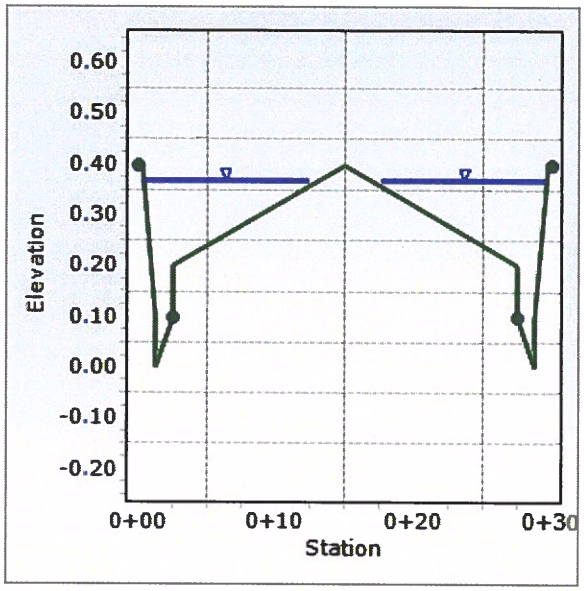
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.37 ft
Critical Depth	0.40 ft
Channel Slope	1.220 %
Critical Slope	0.688 %

Cross Section for Section 1b (Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	1.220 %
Normal Depth	0.37 ft
Discharge	8.00 cfs



Worksheet for Section 2

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Discharge	15.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+15	0.43
0+28	0.17
0+28	0.13
0+29	0.00
0+29	0.06
0+30	0.38
0+30	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+28, 0.13)	0.016
(0+28, 0.13)	(0+30, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.41 ft
Roughness Coefficient	0.015
Elevation	0.41 ft
Elevation Range	0.00 to 0.43 ft
Flow Area	4.1 ft²
Wetted Perimeter	28.8 ft

Worksheet for Section 2

Results	
Hydraulic Radius	0.14 ft
Top Width	28.42 ft
Normal Depth	0.41 ft
Critical Depth	0.48 ft
Critical Slope	0.614 %
Velocity	3.69 ft/s
Velocity Head	0.21 ft
Specific Energy	0.62 ft
Froude Number	1.717
Flow Type	Supercritical

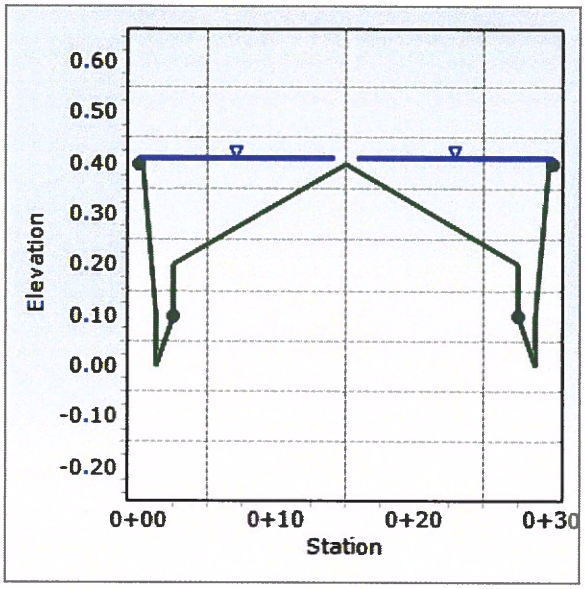
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.41 ft
Critical Depth	0.48 ft
Channel Slope	2.000 %
Critical Slope	0.614 %

Cross Section for Section 2

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Normal Depth	0.41 ft
Discharge	15.00 cfs



Worksheet for Section 3G (Half Street - Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	4.250 %
Discharge	5.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+18, 0.48)	0.016

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.34 ft
Roughness Coefficient	0.015
Elevation	0.34 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	1.1 ft²
Wetted Perimeter	10.4 ft
Hydraulic Radius	0.11 ft
Top Width	10.28 ft
Normal Depth	0.34 ft
Critical Depth	0.43 ft
Critical Slope	0.667 %
Velocity	4.48 ft/s
Velocity Head	0.31 ft

Worksheet for Section 3G (Half Street - Min %)

Results	
Specific Energy	0.65 ft
Froude Number	2.396
Flow Type	Supercritical

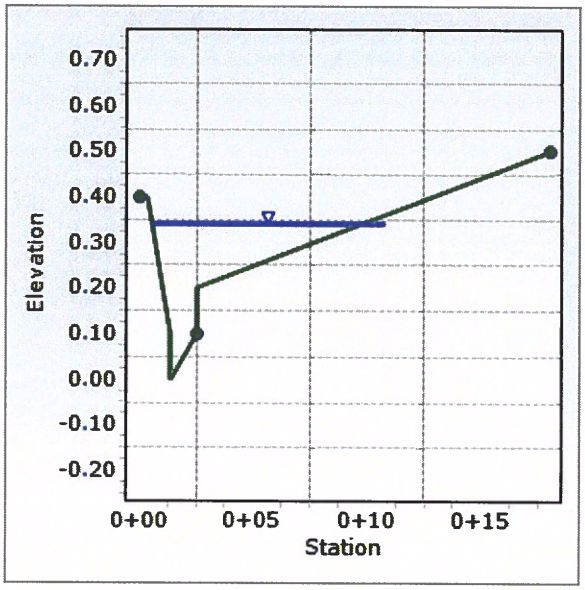
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.34 ft
Critical Depth	0.43 ft
Channel Slope	4.250 %
Critical Slope	0.667 %

Cross Section for Section 3G (Half Street - Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	4.250 %
Normal Depth	0.34 ft
Discharge	5.00 cfs



Worksheet for Section 3G (Half Street - Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.250 %
Discharge	5.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+18, 0.48)	0.016

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.33 ft
Roughness Coefficient	0.015
Elevation	0.33 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	1.0 ft²
Wetted Perimeter	10.0 ft
Hydraulic Radius	0.10 ft
Top Width	9.83 ft
Normal Depth	0.33 ft
Critical Depth	0.43 ft
Critical Slope	0.665 %
Velocity	4.85 ft/s
Velocity Head	0.37 ft

Worksheet for Section 3G (Half Street - Max %)

Results	
Specific Energy	0.69 ft
Froude Number	2.642
Flow Type	Supercritical

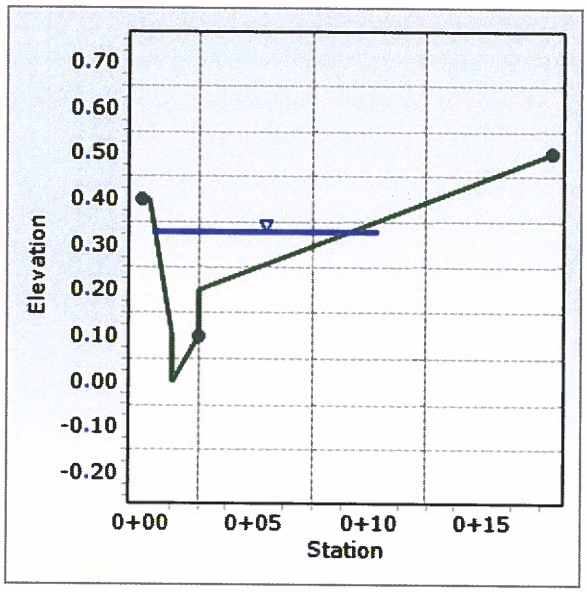
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.33 ft
Critical Depth	0.43 ft
Channel Slope	5.250 %
Critical Slope	0.665 %

Cross Section for Section 3G (Half Street - Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.250 %
Normal Depth	0.33 ft
Discharge	5.00 cfs



Worksheet for Section 3B (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.750 %
Discharge	15.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.48
0+05	0.38
0+05	0.38
0+06	0.06
0+06	0.00
0+08	0.13
0+08	0.17
0+23	0.48
0+39	0.17
0+39	0.13
0+40	0.00
0+40	0.06
0+41	0.38
0+41	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.48)	(0+08, 0.13)	0.013
(0+08, 0.13)	(0+39, 0.13)	0.016
(0+39, 0.13)	(0+41, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.36 ft
Roughness Coefficient	0.015
Elevation	0.36 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	2.7 ft²

Worksheet for Section 3B (Full Street)

Results	
Wetted Perimeter	23.2 ft
Hydraulic Radius	0.12 ft
Top Width	22.94 ft
Normal Depth	0.36 ft
Critical Depth	0.48 ft
Critical Slope	0.651 %
Velocity	5.52 ft/s
Velocity Head	0.47 ft
Specific Energy	0.83 ft
Froude Number	2.824
Flow Type	Supercritical

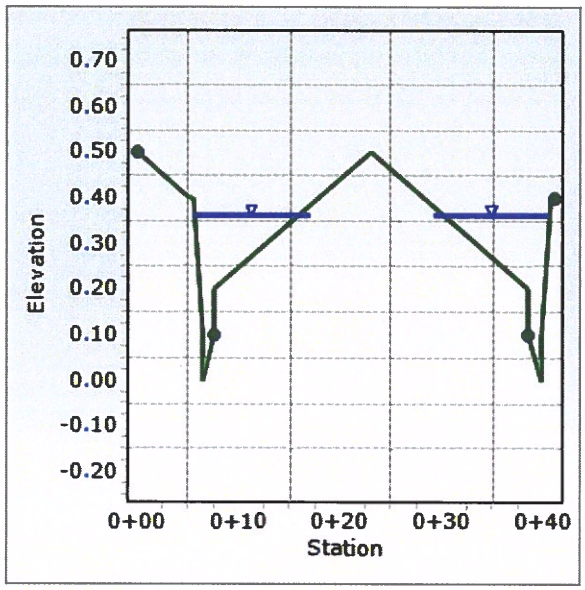
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.36 ft
Critical Depth	0.48 ft
Channel Slope	5.750 %
Critical Slope	0.651 %

Cross Section for Section 3B (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.750 %
Normal Depth	0.36 ft
Discharge	15.00 cfs



Worksheet for Section 3F (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	6.000 %
Discharge	10.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.48
0+05	0.38
0+05	0.38
0+06	0.06
0+06	0.00
0+08	0.13
0+08	0.17
0+23	0.48
0+39	0.17
0+39	0.13
0+40	0.00
0+40	0.06
0+41	0.38
0+41	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.48)	(0+08, 0.13)	0.013
(0+08, 0.13)	(0+39, 0.13)	0.016
(0+39, 0.13)	(0+41, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.32 ft
Roughness Coefficient	0.015
Elevation	0.32 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	2.0 ft²

Worksheet for Section 3F (Full Street)

Results	
Wetted Perimeter	19.4 ft
Hydraulic Radius	0.10 ft
Top Width	19.09 ft
Normal Depth	0.32 ft
Critical Depth	0.43 ft
Critical Slope	0.675 %
Velocity	5.11 ft/s
Velocity Head	0.41 ft
Specific Energy	0.73 ft
Froude Number	2.812
Flow Type	Supercritical

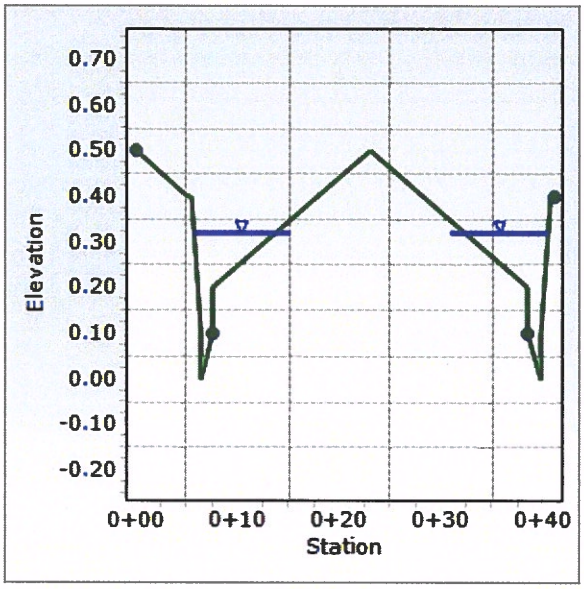
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.32 ft
Critical Depth	0.43 ft
Channel Slope	6.000 %
Critical Slope	0.675 %

Cross Section for Section 3F (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	6.000 %
Normal Depth	0.32 ft
Discharge	10.00 cfs



Worksheet for Section 3 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Discharge	25.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.52 ft
Roughness Coefficient	0.015
Elevation	0.52 ft
Elevation Range	0.0 to 0.5 ft
Flow Area	8.4 ft²
Wetted Perimeter	41.5 ft

Worksheet for Section 3 (Full Street)

Results	
Hydraulic Radius	0.20 ft
Top Width	41.00 ft
Normal Depth	0.52 ft
Critical Depth	0.55 ft
Critical Slope	0.570 %
Velocity	2.99 ft/s
Velocity Head	0.14 ft
Specific Energy	0.66 ft
Froude Number	1.166
Flow Type	Supercritical

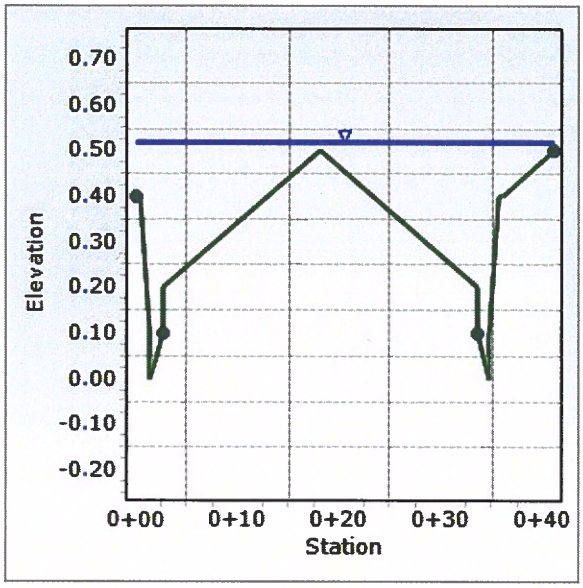
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.52 ft
Critical Depth	0.55 ft
Channel Slope	0.800 %
Critical Slope	0.570 %

Cross Section for Section 3 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Normal Depth	0.52 ft
Discharge	25.00 cfs



Worksheet for Section 3E (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	6.000 %
Discharge	9.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+36, 0.38)	0.013
(0+36, 0.38)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.31 ft
Roughness Coefficient	0.015
Elevation	0.31 ft
Elevation Range	0.00 to 0.48 ft

Worksheet for Section 3E (Full Street)

Results	
Flow Area	1.8 ft²
Wetted Perimeter	18.5 ft
Hydraulic Radius	0.10 ft
Top Width	18.21 ft
Normal Depth	0.31 ft
Critical Depth	0.42 ft
Critical Slope	0.680 %
Velocity	4.99 ft/s
Velocity Head	0.39 ft
Specific Energy	0.70 ft
Froude Number	2.798
Flow Type	Supercritical

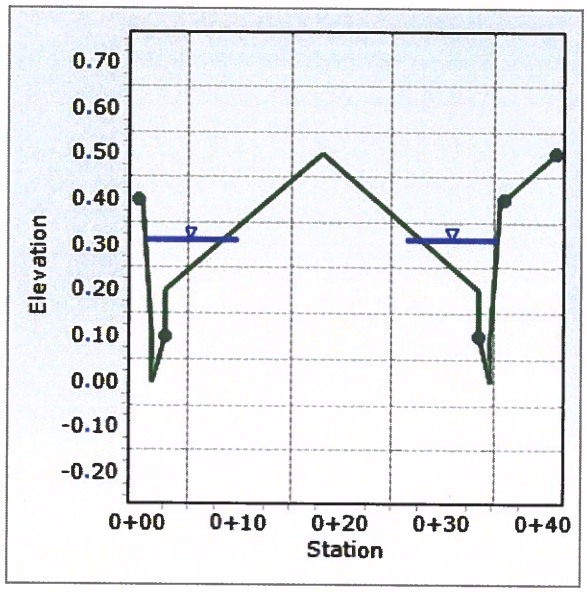
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.31 ft
Critical Depth	0.42 ft
Channel Slope	6.000 %
Critical Slope	0.680 %

Cross Section for Section 3E (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	6.000 %
Normal Depth	0.31 ft
Discharge	9.00 cfs



Worksheet for Section 7 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Discharge	34.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+36, 0.38)	0.013
(0+36, 0.38)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.56 ft
Roughness Coefficient	0.015
Elevation	0.56 ft
Elevation Range	0.00 to 0.48 ft

Worksheet for Section 7 (Full Street)

Results	
Flow Area	10.1 ft²
Wetted Perimeter	41.6 ft
Hydraulic Radius	0.24 ft
Top Width	41.00 ft
Normal Depth	0.56 ft
Critical Depth	0.60 ft
Critical Slope	0.534 %
Velocity	3.38 ft/s
Velocity Head	0.18 ft
Specific Energy	0.74 ft
Froude Number	1.201
Flow Type	Supercritical

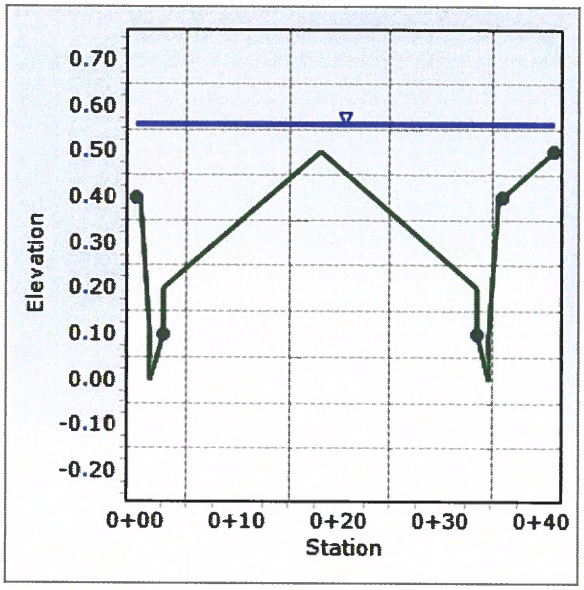
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.56 ft
Critical Depth	0.60 ft
Channel Slope	0.800 %
Critical Slope	0.534 %

Cross Section for Section 7 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Normal Depth	0.56 ft
Discharge	34.00 cfs



Worksheet for Section 4A (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.800 %
Discharge	10.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.48
0+05	0.38
0+05	0.38
0+06	0.06
0+06	0.00
0+08	0.13
0+08	0.17
0+23	0.48
0+39	0.17
0+39	0.13
0+40	0.00
0+40	0.06
0+41	0.38
0+41	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.48)	(0+08, 0.13)	0.013
(0+08, 0.13)	(0+39, 0.13)	0.016
(0+39, 0.13)	(0+41, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.32 ft
Roughness Coefficient	0.015
Elevation	0.32 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	2.0 ft²

Worksheet for Section 4A (Full Street)

Results	
Wetted Perimeter	19.5 ft
Hydraulic Radius	0.10 ft
Top Width	19.23 ft
Normal Depth	0.32 ft
Critical Depth	0.43 ft
Critical Slope	0.675 %
Velocity	5.04 ft/s
Velocity Head	0.40 ft
Specific Energy	0.72 ft
Froude Number	2.769
Flow Type	Supercritical

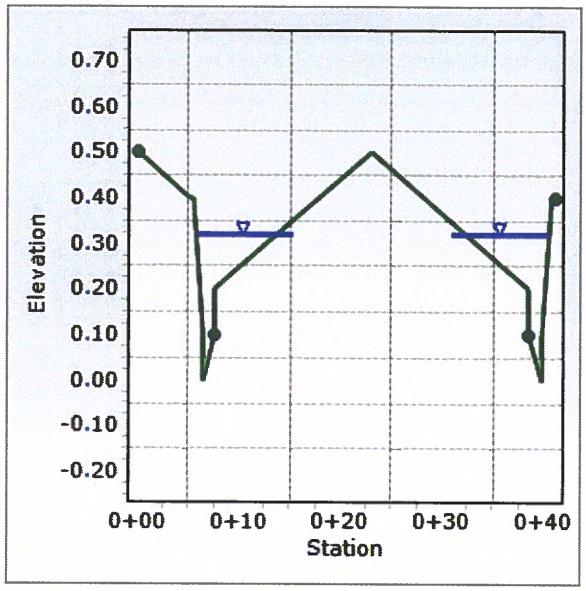
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.32 ft
Critical Depth	0.43 ft
Channel Slope	5.800 %
Critical Slope	0.675 %

Cross Section for Section 4A (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.800 %
Normal Depth	0.32 ft
Discharge	10.00 cfs



Worksheet for Section 4 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Discharge	44.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.48
0+05	0.38
0+05	0.38
0+06	0.06
0+06	0.00
0+08	0.13
0+08	0.17
0+23	0.48
0+39	0.17
0+39	0.13
0+40	0.00
0+40	0.06
0+41	0.38
0+41	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.48)	(0+08, 0.13)	0.013
(0+08, 0.13)	(0+39, 0.13)	0.016
(0+39, 0.13)	(0+41, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.54 ft
Roughness Coefficient	0.015
Elevation	0.54 ft
Elevation Range	0.0 to 0.5 ft
Flow Area	8.9 ft²
Wetted Perimeter	41.5 ft

Worksheet for Section 4 (Full Street)

Results	
Hydraulic Radius	0.21 ft
Top Width	41.00 ft
Normal Depth	0.54 ft
Critical Depth	0.65 ft
Critical Slope	0.506 %
Velocity	4.93 ft/s
Velocity Head	0.38 ft
Specific Energy	0.91 ft
Froude Number	1.864
Flow Type	Supercritical

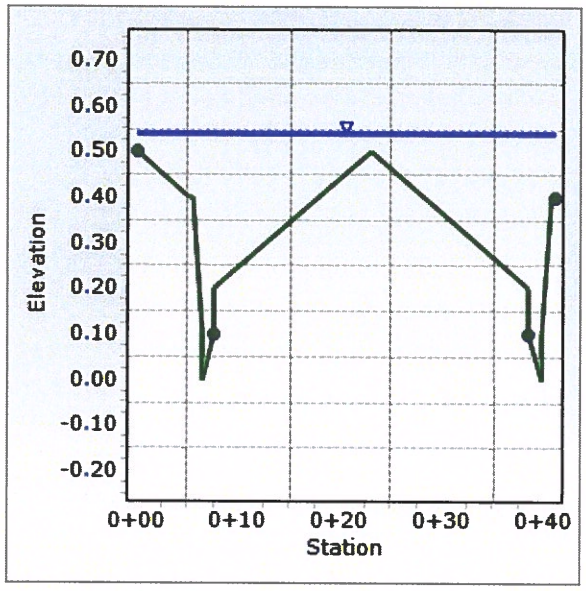
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.54 ft
Critical Depth	0.65 ft
Channel Slope	2.000 %
Critical Slope	0.506 %

Cross Section for Section 4 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Normal Depth	0.54 ft
Discharge	44.00 cfs



Worksheet for Section 5C (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Discharge	12.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.44 ft
Roughness Coefficient	0.015
Elevation	0.44 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	5.1 ft²

Worksheet for Section 5C (Full Street)

Results	
Wetted Perimeter	35.3 ft
Hydraulic Radius	0.14 ft
Top Width	34.93 ft
Normal Depth	0.44 ft
Critical Depth	0.45 ft
Critical Slope	0.656 %
Velocity	2.37 ft/s
Velocity Head	0.09 ft
Specific Energy	0.53 ft
Froude Number	1.096
Flow Type	Supercritical

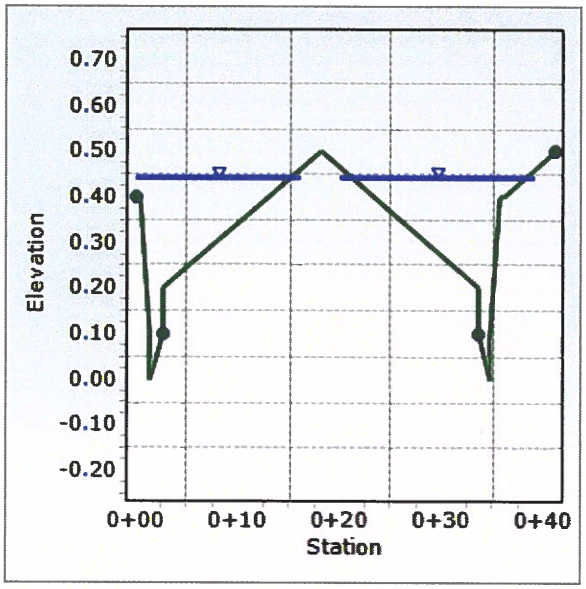
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.44 ft
Critical Depth	0.45 ft
Channel Slope	0.800 %
Critical Slope	0.656 %

Cross Section for Section 5C (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Normal Depth	0.44 ft
Discharge	12.00 cfs



Worksheet for Section 6H (Full Street - Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	1.560 %
Discharge	14.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+36, 0.38)	0.013
(0+36, 0.38)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.42 ft
Roughness Coefficient	0.015
Elevation	0.42 ft
Elevation Range	0.00 to 0.48 ft

Worksheet for Section 6H (Full Street - Min %)

Results	
Flow Area	4.4 ft²
Wetted Perimeter	32.3 ft
Hydraulic Radius	0.14 ft
Top Width	31.90 ft
Normal Depth	0.42 ft
Critical Depth	0.47 ft
Critical Slope	0.647 %
Velocity	3.19 ft/s
Velocity Head	0.16 ft
Specific Energy	0.58 ft
Froude Number	1.515
Flow Type	Supercritical

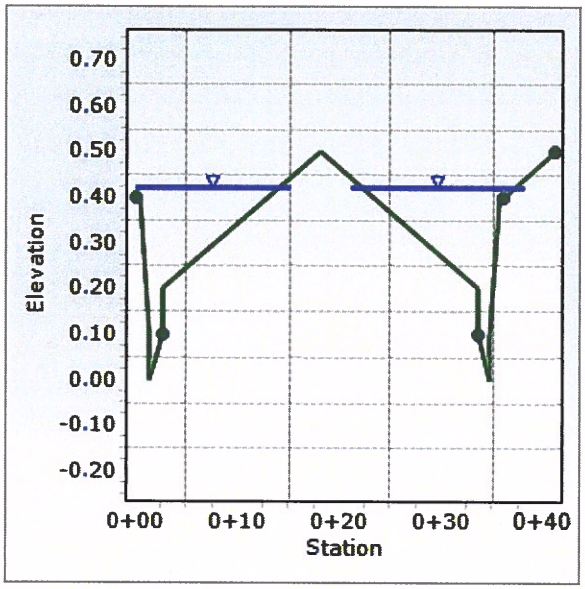
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.42 ft
Critical Depth	0.47 ft
Channel Slope	1.560 %
Critical Slope	0.647 %

Cross Section for Section 6H (Full Street - Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	1.560 %
Normal Depth	0.42 ft
Discharge	14.00 cfs



Worksheet for Section 6H (Full Street - Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.750 %
Discharge	14.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+36, 0.38)	0.013
(0+36, 0.38)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.35 ft
Roughness Coefficient	0.015
Elevation	0.35 ft
Elevation Range	0.00 to 0.48 ft

Worksheet for Section 6H (Full Street - Max %)

Results	
Flow Area	2.6 ft²
Wetted Perimeter	22.6 ft
Hydraulic Radius	0.11 ft
Top Width	22.27 ft
Normal Depth	0.35 ft
Critical Depth	0.47 ft
Critical Slope	0.655 %
Velocity	5.43 ft/s
Velocity Head	0.46 ft
Specific Energy	0.81 ft
Froude Number	2.815
Flow Type	Supercritical

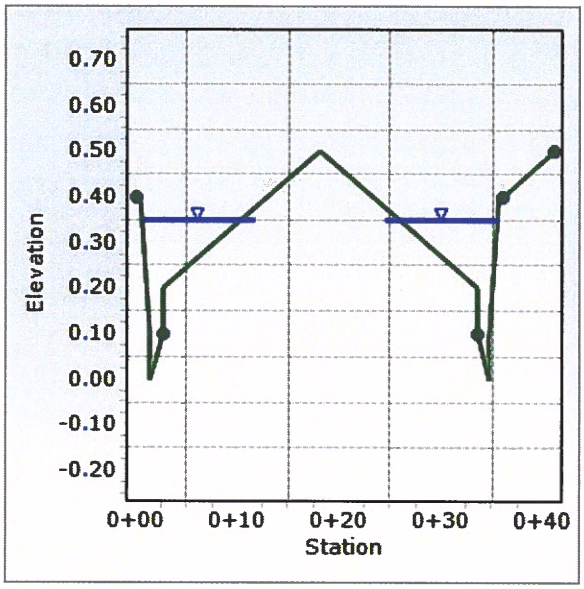
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.35 ft
Critical Depth	0.47 ft
Channel Slope	5.750 %
Critical Slope	0.655 %

Cross Section for Section 6H (Full Street - Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	5.750 %
Normal Depth	0.35 ft
Discharge	14.00 cfs



Worksheet for Section 6 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Discharge	32.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+36, 0.38)	0.013
(0+36, 0.38)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.56 ft
Roughness Coefficient	0.015
Elevation	0.56 ft
Elevation Range	0.00 to 0.48 ft

Worksheet for Section 6 (Full Street)

Results	
Flow Area	9.7 ft²
Wetted Perimeter	41.6 ft
Hydraulic Radius	0.23 ft
Top Width	41.00 ft
Normal Depth	0.56 ft
Critical Depth	0.59 ft
Critical Slope	0.541 %
Velocity	3.30 ft/s
Velocity Head	0.17 ft
Specific Energy	0.72 ft
Froude Number	1.195
Flow Type	Supercritical

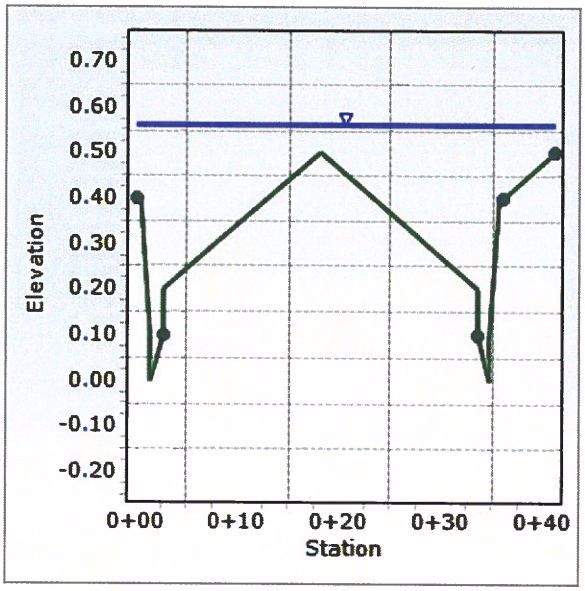
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.56 ft
Critical Depth	0.59 ft
Channel Slope	0.800 %
Critical Slope	0.541 %

Cross Section for Section 6 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Normal Depth	0.56 ft
Discharge	32.00 cfs



Worksheet for AV1 (Half Street) (min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	3.000 %
Discharge	3.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.50
0+01	0.48
0+01	0.00
0+02	0.13
0+02	0.17
0+25	0.63
0+25	1.04
0+26	1.04

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.50)	(0+02, 0.13)	0.013
(0+02, 0.13)	(0+25, 0.63)	0.016
(0+25, 0.63)	(0+26, 1.04)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.31 ft
Roughness Coefficient	0.015
Elevation	0.31 ft
Elevation Range	0.00 to 1.04 ft
Flow Area	0.9 ft²
Wetted Perimeter	8.8 ft
Hydraulic Radius	0.10 ft
Top Width	8.49 ft
Normal Depth	0.31 ft
Critical Depth	0.37 ft
Critical Slope	0.723 %

Worksheet for AV1 (Half Street) (min %)

Results	
Velocity	3.50 ft/s
Velocity Head	0.19 ft
Specific Energy	0.50 ft
Froude Number	1.946
Flow Type	Supercritical

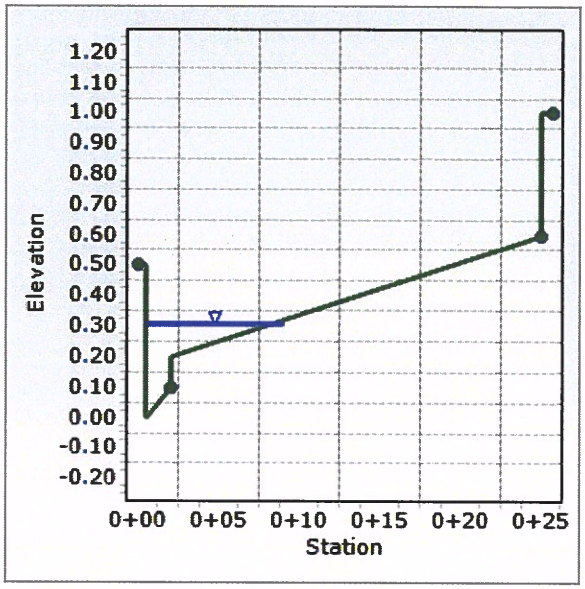
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.31 ft
Critical Depth	0.37 ft
Channel Slope	3.000 %
Critical Slope	0.723 %

Cross Section for AV1 (Half Street) (min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	3.000 %
Normal Depth	0.31 ft
Discharge	3.00 cfs



Worksheet for AV1 (Half Street) (max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	3.660 %
Discharge	3.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.50
0+01	0.48
0+01	0.00
0+02	0.13
0+02	0.17
0+25	0.63
0+25	1.04
0+26	1.04

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.50)	(0+02, 0.13)	0.013
(0+02, 0.13)	(0+25, 0.63)	0.016
(0+25, 0.63)	(0+26, 1.04)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.30 ft
Roughness Coefficient	0.015
Elevation	0.30 ft
Elevation Range	0.00 to 1.04 ft
Flow Area	0.8 ft²
Wetted Perimeter	8.4 ft
Hydraulic Radius	0.09 ft
Top Width	8.09 ft
Normal Depth	0.30 ft
Critical Depth	0.37 ft
Critical Slope	0.720 %

Worksheet for AV1 (Half Street) (max %)

Results	
Velocity	3.80 ft/s
Velocity Head	0.22 ft
Specific Energy	0.53 ft
Froude Number	2.147
Flow Type	Supercritical

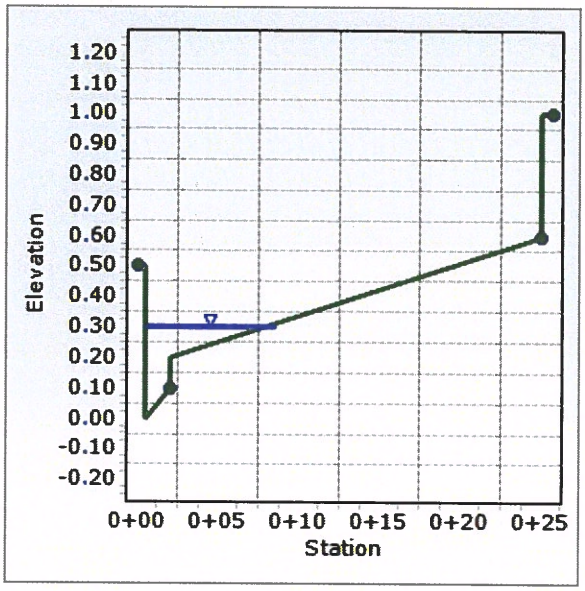
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.30 ft
Critical Depth	0.37 ft
Channel Slope	3.660 %
Critical Slope	0.720 %

Cross Section for AV1 (Half Street) (max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	3.660 %
Normal Depth	0.30 ft
Discharge	3.00 cfs



Worksheet for Section 8 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Discharge	56.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.48
0+05	0.38
0+05	0.38
0+06	0.06
0+06	0.00
0+08	0.13
0+08	0.17
0+23	0.48
0+39	0.17
0+39	0.13
0+40	0.00
0+40	0.06
0+41	0.38
0+41	0.38

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.48)	(0+08, 0.13)	0.013
(0+08, 0.13)	(0+39, 0.13)	0.016
(0+39, 0.13)	(0+41, 0.38)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.57 ft
Roughness Coefficient	0.015
Elevation	0.57 ft
Elevation Range	0.0 to 0.5 ft
Flow Area	10.3 ft²
Wetted Perimeter	41.6 ft

Worksheet for Section 8 (Full Street)

Results	
Hydraulic Radius	0.25 ft
Top Width	41.00 ft
Normal Depth	0.57 ft
Critical Depth	0.71 ft
Critical Slope	0.481 %
Velocity	5.43 ft/s
Velocity Head	0.46 ft
Specific Energy	1.03 ft
Froude Number	1.907
Flow Type	Supercritical

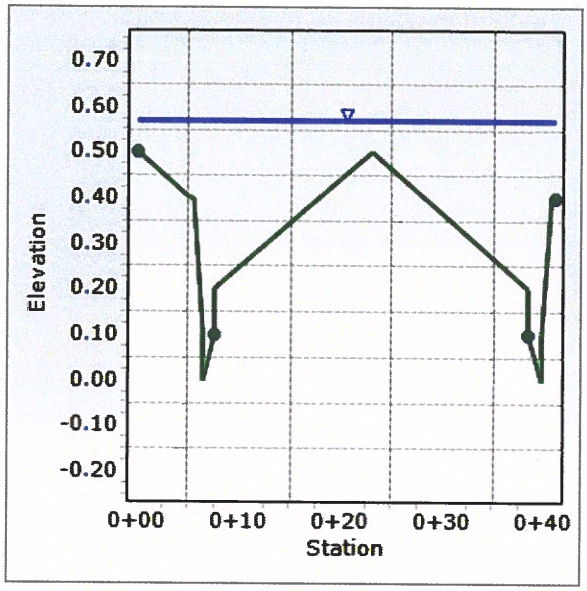
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.57 ft
Critical Depth	0.71 ft
Channel Slope	2.000 %
Critical Slope	0.481 %

Cross Section for Section 8 (Full Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Normal Depth	0.57 ft
Discharge	56.00 cfs



Worksheet for EO -1 (developed)

Project Description	
Solve For	Headwater Elevation

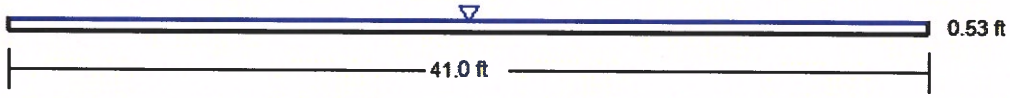
Input Data	
Discharge	48.00 cfs
Crest Elevation	2,899.02 ft
Tailwater Elevation	0.00 ft
Crest Surface Type	Paved
Crest Breadth	5.00 ft
Crest Length	41.0 ft

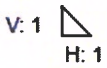
Results	
Headwater Elevation	2,899.55 ft
Headwater Height Above Crest	0.53 ft
Tailwater Height Above Crest	-2,899.02 ft
Weir Coefficient	3.01 ft^(1/2)/s
Submergence Factor	1.000
Adjusted Weir Coefficient	3.01 ft^(1/2)/s
Flow Area	21.8 ft²
Velocity	2.20 ft/s
Wetted Perimeter	42.1 ft
Top Width	41.00 ft

Cross Section for EO -1 (developed)

Project Description	
Solve For	Headwater Elevation

Input Data	
Discharge	48.00 cfs
Headwater Elevation	2,899.55 ft
Crest Elevation	2,899.02 ft
Tailwater Elevation	0.00 ft
Crest Surface Type	Paved
Crest Breadth	5.00 ft
Crest Length	41.0 ft





Worksheet for U Gutter 1 (Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.013
Channel Slope	1.250 %
Bottom Width	4.00 ft
Discharge	6.00 cfs

Results	
Normal Depth	0.29 ft
Flow Area	1.2 ft²
Wetted Perimeter	4.6 ft
Hydraulic Radius	0.25 ft
Top Width	4.00 ft
Critical Depth	0.41 ft
Critical Slope	0.425 %
Velocity	5.13 ft/s
Velocity Head	0.41 ft
Specific Energy	0.70 ft
Froude Number	1.674
Flow Type	Supercritical

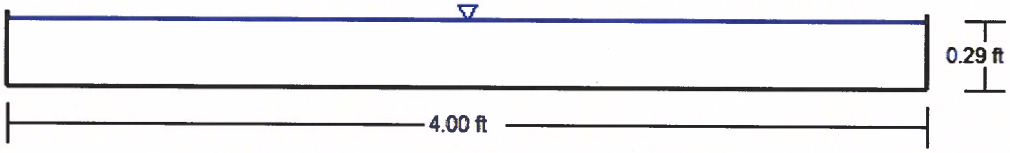
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

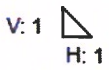
GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.29 ft
Critical Depth	0.41 ft
Channel Slope	1.250 %
Critical Slope	0.425 %

Cross Section for U Gutter 1 (Min %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.013
Channel Slope	1.250 %
Normal Depth	0.29 ft
Bottom Width	4.00 ft
Discharge	6.00 cfs





Worksheet for U Gutter 1 (Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.013
Channel Slope	2.690 %
Bottom Width	4.00 ft
Discharge	6.00 cfs

Results	
Normal Depth	0.23 ft
Flow Area	0.9 ft²
Wetted Perimeter	4.5 ft
Hydraulic Radius	0.21 ft
Top Width	4.00 ft
Critical Depth	0.41 ft
Critical Slope	0.425 %
Velocity	6.54 ft/s
Velocity Head	0.66 ft
Specific Energy	0.89 ft
Froude Number	2.406
Flow Type	Supercritical

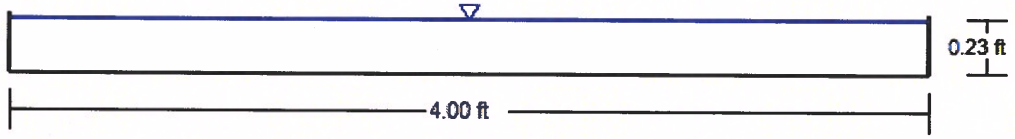
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.23 ft
Critical Depth	0.41 ft
Channel Slope	2.690 %
Critical Slope	0.425 %

Cross Section for U Gutter 1 (Max %)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.013
Channel Slope	2.690 %
Normal Depth	0.23 ft
Bottom Width	4.00 ft
Discharge	6.00 cfs



V: 1
H: 1

Worksheet for U Gutter 3

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.013
Channel Slope	2.000 %
Bottom Width	4.00 ft
Discharge	14.00 cfs

Results	
Normal Depth	0.43 ft
Flow Area	1.7 ft²
Wetted Perimeter	4.9 ft
Hydraulic Radius	0.36 ft
Top Width	4.00 ft
Critical Depth	0.72 ft
Critical Slope	0.414 %
Velocity	8.10 ft/s
Velocity Head	1.02 ft
Specific Energy	1.45 ft
Froude Number	2.174
Flow Type	Supercritical

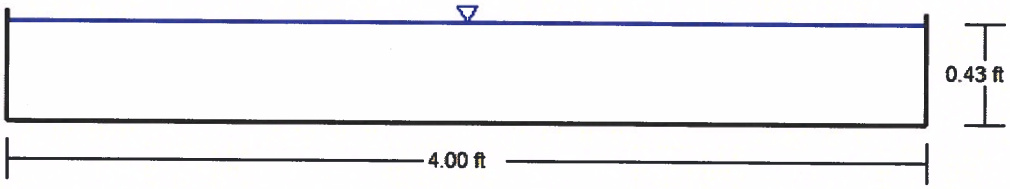
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.43 ft
Critical Depth	0.72 ft
Channel Slope	2.000 %
Critical Slope	0.414 %

Cross Section for U Gutter 3

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.013
Channel Slope	2.000 %
Normal Depth	0.43 ft
Bottom Width	4.00 ft
Discharge	14.00 cfs



V: 1
H: 1

Interim Condition Street Section

Worksheet for Section 3 (Full Street Interim)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Discharge	15.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.38
0+00	0.38
0+01	0.06
0+01	0.00
0+03	0.13
0+03	0.17
0+18	0.48
0+34	0.17
0+34	0.13
0+35	0.00
0+35	0.06
0+36	0.38
0+36	0.38
0+41	0.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.38)	(0+03, 0.13)	0.013
(0+03, 0.13)	(0+34, 0.13)	0.016
(0+34, 0.13)	(0+41, 0.48)	0.013

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.47 ft
Roughness Coefficient	0.015
Elevation	0.47 ft
Elevation Range	0.00 to 0.48 ft
Flow Area	6.0 ft²

Worksheet for Section 3 (Full Street Interim)

Results	
Wetted Perimeter	39.2 ft
Hydraulic Radius	0.15 ft
Top Width	38.81 ft
Normal Depth	0.47 ft
Critical Depth	0.48 ft
Critical Slope	0.637 %
Velocity	2.49 ft/s
Velocity Head	0.10 ft
Specific Energy	0.56 ft
Froude Number	1.115
Flow Type	Supercritical

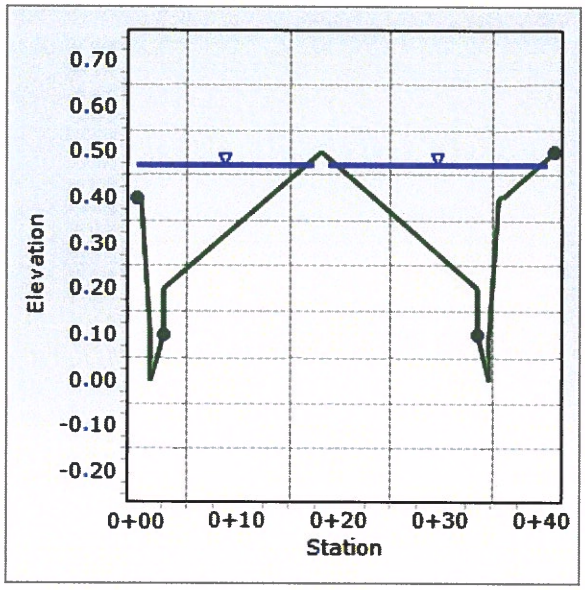
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.47 ft
Critical Depth	0.48 ft
Channel Slope	0.800 %
Critical Slope	0.637 %

Cross Section for Section 3 (Full Street Interim)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.800 %
Normal Depth	0.47 ft
Discharge	15.00 cfs



Worksheet for Section 1 (Interim Half Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Discharge	9.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.50
0+01	0.48
0+01	0.00
0+02	0.13
0+02	0.17
0+15	0.43

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.50)	(0+02, 0.13)	0.013
(0+02, 0.13)	(0+15, 0.43)	0.016

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	0.44 ft
Roughness Coefficient	0.016
Elevation	0.44 ft
Elevation Range	0.00 to 0.50 ft
Flow Area	2.3 ft²
Wetted Perimeter	15.0 ft
Hydraulic Radius	0.15 ft
Top Width	14.50 ft
Normal Depth	0.44 ft
Critical Depth	0.51 ft
Critical Slope	0.620 %
Velocity	3.88 ft/s
Velocity Head	0.23 ft
Specific Energy	0.67 ft

Worksheet for Section 1 (Interim Half Street)

Results	
Froude Number	1.710
Flow Type	Supercritical

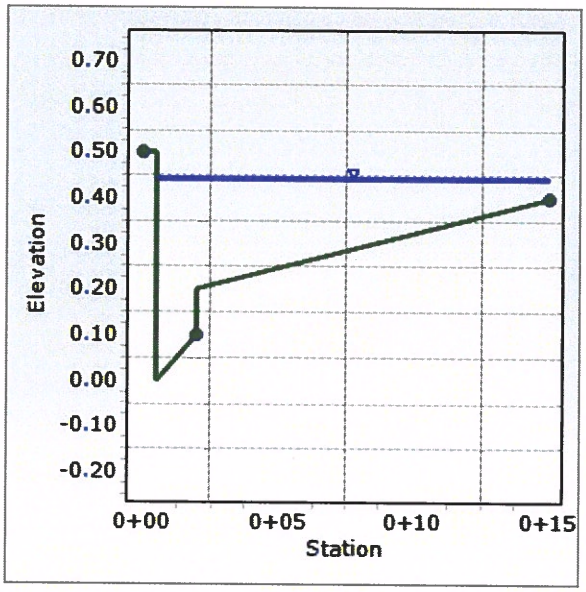
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.44 ft
Critical Depth	0.51 ft
Channel Slope	2.000 %
Critical Slope	0.620 %

Cross Section for Section 1 (Interim Half Street)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	2.000 %
Normal Depth	0.44 ft
Discharge	9.00 cfs



Worksheet for S1 (Intrerim)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.025
Channel Slope	1.250 %
Left Side Slope	4.000 H:V
Right Side Slope	4.000 H:V
Discharge	14.00 cfs

Results	
Normal Depth	0.94 ft
Flow Area	3.6 ft²
Wetted Perimeter	7.8 ft
Hydraulic Radius	0.46 ft
Top Width	7.54 ft
Critical Depth	0.95 ft
Critical Slope	1.217 %
Velocity	3.94 ft/s
Velocity Head	0.24 ft
Specific Energy	1.18 ft
Froude Number	1.012
Flow Type	Supercritical

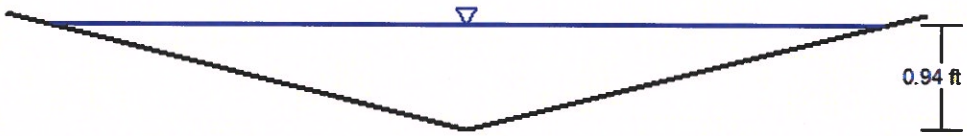
GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

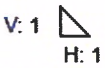
GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.94 ft
Critical Depth	0.95 ft
Channel Slope	1.250 %
Critical Slope	1.217 %

Cross Section for S1 (Intrerim)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.025
Channel Slope	1.250 %
Normal Depth	0.94 ft
Left Side Slope	4.000 H:V
Right Side Slope	4.000 H:V
Discharge	14.00 cfs





APPENDIX E

Revised Storm Drain Computations

Phase 1 Interim Condition WSPG Summary
East Mainline (SDI.WSW)

WSPG Station	Equivalent Roadway Station	Improvement Plan Sheet	Storm Drain Dimension	Invert Elevation (ft)	Q_{100} (cfs)	WSE (ft)	Velocity (ft/s)	FG Elevation	Facility Description	HGL Check[1]
1 - 'HGL Check' reflects the minimum 1-ft below finished grade.										
1000.00	13+57.62	SD-1	42" RCP	2894.25	88.0	2897.75	9.15	N/A	System Outlet	N/A
1074.56	12+83.06	SD-1	36" RCP	2895.50	73.5	2898.01	11.66	2903.25	SDMH #3	OK
1074.56	12+83.06	SD-1	36" RCP	2895.50	73.5	2898.01	11.66	2903.25		OK
1137.42	12+20.19	SD-1	36" RCP	2896.13	73.5	2894.48	11.74	2902.04	SDMH # 2	OK
1137.43	12+20.19	SD-1	36" RCP	2896.13	73.5	2898.42	12.69	2902.04		OK
1137.43	12+20.19	SD-1	36" RCP	2896.63	59.0	2898.52	14.82	2902.04		OK
1328.81	10+28.81	SD-1	30" RCP	2901.45	59.0	2903.84	12.22	2905.00	Open Sump	OK
1328.81	10+28.81	SD-1	30" RCP	2901.45	59.0	2903.84	12.22	2905.00	Pipe Inlet	OK

```
T1 SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM
T2 ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020
T3 INTERIM CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE
SO   1000.0002894.250 42      .013                2897.750
R    1074.5602895.000 42      .013                                    8.00  1
JX   1074.5602895.500 36 24   .013   14.500         2896.500         35.0
R    1137.4292896.129 36      .013                                   15.00

R    1137.4302896.130 36      .013                                   12.00  1

JX   1137.4302896.630 30 24   .013   14.500         2897.130         63.0
R    1328.8102901.450 30      .013

SH   1328.8102901.450 30      .013
CD  18  4   0   0.000   1.500    0.000 0.000 0.000  0.0000.00  0.00
CD  24  4   0   0.000   2.000    0.000 0.000 0.000  0.0000.00  0.00
CD  30  4   0   0.000   2.500    0.000 0.000 0.000  0.0000.00  0.00
CD  36  4   0   0.000   3.000    0.000 0.000 0.000  0.0000.00  0.00
CD  42  4   0   0.000   3.500    0.000 0.000 0.000  0.0000.00  0.00
Q            59.000   .0
```

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIER/PIP	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	18	4	0		1.500														
CD	24	4	0		2.000														
CD	30	4	0		2.500														
CD	36	4	0		3.000														
CD	42	4	0		3.500														

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM

HEADING LINE NO 2 IS -

ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020

HEADING LINE NO 3 IS -

INTERIM CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET * * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1000.000	2894.250	42	2897.750

ELEMENT NO 2 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1074.560	2895.000	42	.013	.000	.000	8.000	1

ELEMENT NO 3 IS A JUNCTION * * * * * * *

U/S DATA	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
	1074.560	2895.500	36	24	0	.013	14.500	.000	2896.500	.000	35.000	.000

RADIUS	ANGLE
.000	.000

ELEMENT NO 4 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1137.429	2896.129	36	.013	.000	.000	15.000	0

ELEMENT NO 5 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1137.430	2896.130	36	.013	.000	.000	12.000	1

ELEMENT NO 6 IS A JUNCTION * * * * * * *

U/S DATA	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
	1137.430	2896.630	30	24	0	.013	14.500	.000	2897.130	.000	63.000	.000

RADIUS	ANGLE
.000	.000

ELEMENT NO 7 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1328.810	2901.450	30	.013	.000	.000	.000	0

ELEMENT NO 8 IS A SYSTEM HEADWORKS * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1328.810	2901.450	30	.000

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM
ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020
INTERIM CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head / SF Ave	Energy Grd.El. / HF	Super Elev / SE Dpth	Critical Depth / Froude N	Flow Top Width / Norm Dp	Height/ Dia.-FT / "N"	Base Wt or I.D. / X-Fall	ZL / ZR	No Wth Prs/Pip / Type Ch
1000.000	2894.250	3.500	2897.750	88.00	9.15	1.30	2899.05	.00	2.92	.00	3.500	.000	.00	0 .0
22.306	.0101					.0076	.17	3.50	.00	2.53	.013	.00	.00	PIPE
1022.306	2894.474	3.500	2897.974	88.00	9.15	1.30	2899.27	.00	2.92	.00	3.500	.000	.00	0 .0
37.029	.0101					.0071	.26	3.50	.00	2.53	.013	.00	.00	PIPE
1059.335	2894.847	3.349	2898.196	88.00	9.29	1.34	2899.54	.00	2.92	1.42	3.500	.000	.00	0 .0
HYDRAULIC JUMP														
1059.335	2894.847	2.510	2897.357	88.00	11.92	2.21	2899.56	.00	2.92	3.15	3.500	.000	.00	0 .0
15.225	.0101					.0103	.16	2.51	1.37	2.53	.013	.00	.00	PIPE
1074.560	2895.500	2.505	2898.005	73.50	11.66	2.11	2900.11	.00	2.70	2.23	3.000	.000	.00	0 .0
28.972	.0100					.0122	.35	2.50	1.22	3.00	.013	.00	.00	PIPE
1103.532	2895.790	2.405	2898.194	73.50	12.10	2.27	2900.47	.00	2.70	2.39	3.000	.000	.00	0 .0
33.897	.0100					.0133	.45	2.40	1.34	3.00	.013	.00	.00	PIPE
1137.430	2896.130	2.291	2898.421	73.50	12.69	2.50	2900.92	.00	2.70	2.55	3.000	.000	.00	0 .0
JUNCT STR	.0000					.0192	.00	2.29	1.48		.013	.00	.00	PIPE
1137.430	2896.630	1.890	2898.520	59.00	14.82	3.41	2901.93	.00	2.39	2.15	2.500	.000	.00	0 .0
15.056	.0252					.0244	.37	1.89	1.92	1.87	.013	.00	.00	PIPE
1152.486	2897.009	1.894	2898.903	59.00	14.79	3.40	2902.30	.00	2.39	2.14	2.500	.000	.00	0 .0
104.054	.0252					.0231	2.41	1.89	1.91	1.87	.013	.00	.00	PIPE

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM
ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020
INTERIM CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head / SF Ave	Energy Grd.El. / HF	Super Elev / SE Dpth	Critical Depth / Froude N	Flow Top Width / Norm Dp	Height/Dia.-FT / "N"	Base Wt or I.D. / X-Fall	ZL / ZR	No Wth Prs/Pip / Type Ch
1256.540	2899.630	1.988	2901.617	59.00	14.10	3.09	2904.70	.00	2.39	2.02	2.500	.000	.00	0 .0
41.232	.0252					.0209	.86	1.99	1.73	1.87	.013	.00	.00	PIPE
1297.772	2900.668	2.093	2902.761	59.00	13.44	2.81	2905.57	.00	2.39	1.85	2.500	.000	.00	0 .0
21.838	.0252					.0192	.42	2.09	1.54	1.87	.013	.00	.00	PIPE
1319.610	2901.218	2.218	2903.436	59.00	12.82	2.55	2905.99	.00	2.39	1.58	2.500	.000	.00	0 .0
9.200	.0252					.0182	.17	2.22	1.32	1.87	.013	.00	.00	PIPE
1328.810	2901.450	2.386	2903.836	59.00	12.22	2.32	2906.15	.00	2.39	1.04	2.500	.000	.00	0 .0

Ultimate Condition WSPG Summary
East Mainline (SDE.WSW)

WSPG Station	Equivalent Roadway Station	Improvement Plan Sheet	Storm Drain Dimension	Invert Elevation (ft)	Q_{100} (cfs)	WSE (ft)	Velocity (ft/s)	FG Elevation	Facility Description	HGL Check[1]
1 - 'HGL Check' reflects the minimum 1-ft below finished grade.										
1000.00	13+57.62	SD-1	42" RCP	2894.25	88.0	2897.75	9.15	N/A	System Outlet	N/A
1074.56	12+83.06	SD-1	36" RCP	2895.00	88.0	2898.26	9.42	2903.25	SDMH #3	OK
1074.56		SD-1	36" RCP	2895.50	64.0	2898.64	9.05	2903.25		OK
1137.42	12+20.19	SD-1	36" RCP	2890.99	64.0	2894.14	9.05	2902.04	SDMH #2	OK
1137.43		SD-1	36" RCP	2896.13	64.0	2899.40	9.05	2902.04		OK
1137.43		SD-1	36" RCP	2896.63	40.0	2900.28	8.15	2902.04		OK
1328.80	10+28.81	SD-1	30" RCP	2891.99	40.0	2898.92	9.09	2907.25	SDMH #1	OK
1328.81		SD-1	30" RCP	2901.45	40.0	2903.58	8.98	2907.25		OK
1328.81		SD-1	24" RCP	2901.95	20.0	2904.57	6.37	2907.25		OK
1357.62	10+00.	SD-1	24" RCP	2902.24	20.0	2904.80	6.37	2907.62	SDDI #3	OK
1357.62	10+00.	SD-1	24" RCP	2902.24	20.0	2904.80	6.37	2907.62		OK

SDE.WSW

```
T1 SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM
T2 ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020
T3 DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE
SO   1000.0002894.250 42      .013                2897.750
R    1074.5602895.000 42      .013                                      8.00  1
JX   1074.5602895.500 36 24   .013   24.000         2896.500         35.0
R    1137.4292896.129 36      .013                                     15.00

R    1137.4302896.130 36      .013                                     12.00  1

JX   1137.4302896.630 30 24   .013   24.000         2897.130         63.0
R    1328.8092901.449 30      .013                                     15.00

R    1328.8102901.450 30      .013                                     15.00  1

JX   1328.8102901.950 24 24   .013   20.000         2901.950         30.0
R    1357.6202902.240 24      .013
SH   1357.6202902.240 24      .013
CD  18  4   0   0.000   1.500    0.000 0.000 0.000  0.0000.00  0.00
CD  24  4   0   0.000   2.000    0.000 0.000 0.000  0.0000.00  0.00
CD  30  4   0   0.000   2.500    0.000 0.000 0.000  0.0000.00  0.00
CD  36  4   0   0.000   3.000    0.000 0.000 0.000  0.0000.00  0.00
CD  42  4   0   0.000   3.500    0.000 0.000 0.000  0.0000.00  0.00
Q           20.000   .0
```

FILE: SDE.WSW W S P G W - EDIT LISTING - Version 14.10 Date:10- 5-2020 Time:11: 5:59

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIER/PIP	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	18	4	0		1.500														
CD	24	4	0		2.000														
CD	30	4	0		2.500														
CD	36	4	0		3.000														
CD	42	4	0		3.500														

W S P G W

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM

HEADING LINE NO 2 IS -

ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020

HEADING LINE NO 3 IS -

DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

W S P G W

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET * * *

	STATION	INVERT	SECT	W S ELEV
U/S DATA	1000.000	2894.250	42	2897.750

ELEMENT NO 2 IS A REACH * * *

	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
U/S DATA	1074.560	2895.000	42	.013	.000	.000	8.000	1

ELEMENT NO 3 IS A JUNCTION * * * * * * *

	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
U/S DATA	1074.560	2895.500	36	24	0	.013	24.000	.000	2896.500	.000	35.000	.000

	RADIUS	ANGLE
	.000	.000

ELEMENT NO 4 IS A REACH * * *

	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
U/S DATA	1137.429	2896.129	36	.013	.000	.000	15.000	0

ELEMENT NO 5 IS A REACH * * *

	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
U/S DATA	1137.430	2896.130	36	.013	.000	.000	12.000	1

ELEMENT NO 6 IS A JUNCTION * * * * * * *

	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
U/S DATA	1137.430	2896.630	30	24	0	.013	24.000	.000	2897.130	.000	63.000	.000

	RADIUS	ANGLE
	.000	.000

ELEMENT NO 7 IS A REACH * * *

	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
U/S DATA	1328.809	2901.449	30	.013	.000	.000	15.000	0

ELEMENT NO 8 IS A REACH * * *

	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
U/S DATA	1328.810	2901.450	30	.013	.000	.000	15.000	1

ELEMENT NO 9 IS A JUNCTION * * * * * * *

	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
U/S DATA	1328.810	2901.950	24	24	0	.013	20.000	.000	2901.950	.000	30.000	.000

SDE.EDT

RADIUS ANGLE
.000 .000

W S P G W

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 10 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1357.620	2902.240	24	.013	.000	.000	.000	0

ELEMENT NO 11 IS A SYSTEM HEADWORKS * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1357.620	2902.240	24	.000

WATER SURFACE PROFILE LISTING Date:10- 5-2020 Time:11: 6: 1

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM

ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020

DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1000.000	2894.250	3.500	2897.750	88.00	9.15	1.30	2899.05	.00	2.92	.00	3.500	.000	.00	0 .0
22.306	.0101					.0076	.17	3.50	.00	2.53	.013	.00	.00	PIPE
1022.306	2894.474	3.500	2897.974	88.00	9.15	1.30	2899.27	.00	2.92	.00	3.500	.000	.00	0 .0
52.254	.0101					.0071	.37	3.50	.00	2.53	.013	.00	.00	PIPE
1074.560	2895.000	3.264	2898.264	88.00	9.42	1.38	2899.64	.00	2.92	1.75	3.500	.000	.00	0 .0
JUNCT STR	.0000					.0079	.00	3.26	.72		.013	.00	.00	PIPE
1074.560	2895.500	3.140	2898.640	64.00	9.05	1.27	2899.91	.00	2.57	.00	3.000	.000	.00	0 .0
62.869	.0100					.0092	.58	3.14	.00	2.36	.013	.00	.00	PIPE
1137.429	2896.129	3.153	2899.282	64.00	9.05	1.27	2900.56	.00	2.57	.00	3.000	.000	.00	0 .0
1137.430	2896.130	3.266	2899.396	64.00	9.05	1.27	2900.67	.00	2.57	.00	3.000	.000	.00	0 .0
JUNCT STR	.0000					.0094	.00	3.27	.00		.013	.00	.00	PIPE
1137.430	2896.630	3.649	2900.279	40.00	8.15	1.03	2901.31	.00	2.13	.00	2.500	.000	.00	0 .0
44.692	.0252					.0095	.43	3.65	.00	1.42	.013	.00	.00	PIPE
1182.122	2897.755	2.978	2900.734	40.00	8.15	1.03	2901.76	.00	2.13	.00	2.500	.000	.00	0 .0
HYDRAULIC JUMP														
1182.122	2897.755	1.453	2899.209	40.00	13.51	2.83	2902.04	.00	2.13	2.47	2.500	.000	.00	0 .0
31.285	.0252					.0228	.71	1.45	2.17	1.42	.013	.00	.00	PIPE
1213.406	2898.543	1.472	2900.015	40.00	13.30	2.75	2902.76	.00	2.13	2.46	2.500	.000	.00	0 .0
45.889	.0252					.0210	.97	1.47	2.12	1.42	.013	.00	.00	PIPE

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM
ONSITE STORM DRAIN - EAST MAINLINE, OCTOBER 2020
DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head / SF Ave	Energy Grd.El. / HF	Super Elev / SE Dpth	Critical Depth / Froude N	Flow Top Width / Norm Dp	Height/ Dia.-FT / "N"	Base Wt or I.D. / X-Fall	ZL / ZR	No Wth Prs/Pip / Type Ch
1259.295	2899.698	1.532	2901.230	40.00	12.68	2.50	2903.73	.00	2.13	2.44	2.500	.000	.00	0 .0
25.004	.0252					.0186	.47	1.53	1.96	1.42	.013	.00	.00	PIPE
1284.300	2900.328	1.596	2901.924	40.00	12.09	2.27	2904.19	.00	2.13	2.40	2.500	.000	.00	0 .0
16.063	.0252					.0165	.27	1.60	1.82	1.42	.013	.00	.00	PIPE
1300.363	2900.732	1.663	2902.396	40.00	11.53	2.06	2904.46	.00	2.13	2.36	2.500	.000	.00	0 .0
10.993	.0252					.0147	.16	1.66	1.68	1.42	.013	.00	.00	PIPE
1311.356	2901.009	1.736	2902.745	40.00	11.00	1.88	2904.62	.00	2.13	2.30	2.500	.000	.00	0 .0
7.655	.0252					.0131	.10	1.74	1.54	1.42	.013	.00	.00	PIPE
1319.011	2901.202	1.814	2903.016	40.00	10.48	1.71	2904.72	.00	2.13	2.23	2.500	.000	.00	0 .0
5.196	.0252					.0117	.06	1.81	1.41	1.42	.013	.00	.00	PIPE
1324.207	2901.333	1.900	2903.232	40.00	10.00	1.55	2904.78	.00	2.13	2.14	2.500	.000	.00	0 .0
3.210	.0252					.0106	.03	1.90	1.29	1.42	.013	.00	.00	PIPE
1327.417	2901.414	1.994	2903.407	40.00	9.53	1.41	2904.82	.00	2.13	2.01	2.500	.000	.00	0 .0
1.392	.0252					.0096	.01	1.99	1.16	1.42	.013	.00	.00	PIPE
1328.809	2901.449	2.100	2903.549	40.00	9.09	1.28	2904.83	.00	2.13	1.83	2.500	.000	.00	0 .0
.001	.8889					.0090	.00	2.10	1.03	.54	.013	.00	.00	PIPE
1328.810	2901.450	2.129	2903.578	40.00	8.98	1.25	2904.83	.00	2.13	1.78	2.500	.000	.00	0 .0
JUNCT STR	.0000					.0084	.00	2.13	1.00		.013	.00	.00	PIPE

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS) / SF Ave	Vel Head / HF	Energy Grd.El. / SE Dpth	Super Elev / Froude N	Critical Depth / Norm Dp	Flow Top Width / "N"	Height/Dia.-FT / X-Fall	Base Wt or I.D. / ZR	ZL	No Wth Prs/Pip / Type Ch
1328.810	2901.950	2.624	2904.574	20.00	6.37	.63	2905.20	.00	1.61	.00	2.000	.000	.00	0 .0
28.810	.0101				.0078	.23	2.62	.00	1.46	.013		.00	.00	PIPE
1357.620	2902.240	2.559	2904.799	20.00	6.37	.63	2905.43	.00	1.61	.00	2.000	.000	.00	0 .0

Ultimate Condition WSPG Summary
West Mainline (SDW.WSW)

WSPG Station	Equivalent Roadway Station	Improvement Plan Sheet	Storm Drain Dimension	Invert Elevation (ft)	Q_{100} (cfs)	WSE (ft)	Velocity (ft/s)	FG Elevation	Facility Description	HGL Check[1]
1 - 'HGL Check' reflects the minimum 1-ft below finished grade.										
1000.00	10+00.	SD-2	18" RCP	2931.15	29.0	2933.15	9.23	N/A	System Outlet	NA
1030.11	11+08.61	SD-2	18" RCP	2931.48	29.0	2933.75	9.23	2942.90	SDDI #6	OK
1030.11		SD-2	18" RCP	2931.48	29.0	2935.08	0.66	2942.90		OK
1032.61	11+08.61	SD-2	12.29' x 10' RCB	2931.48	29.0	2935.08	0.66	2942.90		OK
1032.61		SD-2	18" RCP	2931.48	14.0	2935.09	7.92	2942.90		OK
1035.11	11+08.61	SD-2	18" RCP	2931.98	14.0	2935.13	7.92	2942.90		OK
1035.11		SD-2	18" RCP	2931.98	14.0	2935.13	7.92	2942.90		OK
1143.85	11+44.16	SD-2	24" RCP	2933.07	14.0	2937.07	7.92	2941.97	NDOT Type 2A	OK
1143.85	11+44.16	SD-2	24" RCP	2933.07	14.0	2937.07	7.92	2941.97		OK

```
T1 SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM
T2 ONSITE STORM DRAIN - WEST MAINLINE, JULY 2020
T3 DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE
SO   1000.0002931.150 24      .013                2933.150
R    1030.1102931.479 24      .013                                        8.00  1
WE   1030.1102931.479  2      .013
R    1032.6102931.480  2      .013
JX   1032.6102931.480  2  2   .013   15.000         2931.480         90.0
R    1035.1102931.980 18      .013
WX   1035.1102931.980 18      .013
R    1143.8502933.070 18      .013

SH   1143.8502933.070 18      .013
CD   2  2   0   0.000  10.000   12.290 0.000 0.000  0.0000.00  0.00

CD  18  4   0   0.000   1.500    0.000 0.000 0.000  0.0000.00  0.00
CD  24  4   0   0.000   2.000    0.000 0.000 0.000  0.0000.00  0.00
CD  30  4   0   0.000   2.500    0.000 0.000 0.000  0.0000.00  0.00
CD  36  4   0   0.000   3.000    0.000 0.000 0.000  0.0000.00  0.00
CD  42  4   0   0.000   3.500    0.000 0.000 0.000  0.0000.00  0.00
Q           14.000   .0
```

FILE: SDW.WSW W S P G W - EDIT LISTING - Version 14.10 Date:10- 5-2020 Time:10: 7:29

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING PAGE 1

CARD CODE	SECT NO	CHN TYPE	NO OF PIER/PIP	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	2	2	0	.000	10.000	12.290			.00										
CD	18	4	0		1.500														
CD	24	4	0		2.000														
CD	30	4	0		2.500														
CD	36	4	0		3.000														
CD	42	4	0		3.500														

W S P G W PAGE NO 1

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM

HEADING LINE NO 2 IS -

ONSITE STORM DRAIN - WEST MAINLINE, JULY 2020

HEADING LINE NO 3 IS -

DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

W S P G W PAGE NO 2

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET * * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1000.000	2931.150	24	2933.150

ELEMENT NO 2 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1030.110	2931.479	24	.013	.000	.000	8.000	1

ELEMENT NO 3 IS A WALL ENTRANCE *

U/S DATA	STATION	INVERT	SECT	FP
	1030.110	2931.479	2	.013

ELEMENT NO 4 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1032.610	2931.480	2	.013	.000	.000	.000	0

ELEMENT NO 5 IS A JUNCTION * * * * * * *

U/S DATA	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
	1032.610	2931.480	2	2	0	.013	15.000	.000	2931.480	.000	90.000	.000

RADIUS	ANGLE
.000	.000

THE ABOVE ELEMENT CONTAINED AN INVERT ELEV WHICH WAS NOT GREATER THAN THE PREVIOUS INVERT ELEV -WARNING
THE ABOVE ELEMENT CONTAINED AN INVERT ELEV WHICH WAS NOT GREATER THAN THE PREVIOUS INVERT ELEV -WARNING
WARNING - ADJACENT SECTIONS ARE NOT IDENTICAL - SEE SECTION NUMBERS AND CHANNEL DEFINITIONS

ELEMENT NO 6 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1035.110	2931.980	18	.013	.000	.000	.000	0

ELEMENT NO 7 IS A WALL EXIT *

U/S DATA	STATION	INVERT	SECT
	1035.110	2931.980	18

ELEMENT NO 8 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1143.850	2933.070	18	.013	.000	.000	.000	0

ELEMENT NO 9 IS A SYSTEM HEADWORKS * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1143.850	2933.070	18	.000

Program Package Serial Number: 7189

WATER SURFACE PROFILE LISTING Date:10- 5-2020 Time:10: 7:31

SKYE CANYON PARCEL 2.10 - TECHNICAL DRAINAGE STUDY ADDENDUM

ONSITE STORM DRAIN - WEST MAINLINE, JULY 2020

DEVELOPED CONDITION FLOWS - STARTING HGL = TOP-OF-PIPE

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1000.000	2931.150	2.000	2933.150	29.00	9.23	1.32	2934.47	.00	1.85	.00	2.000	.000	.00	0 .0
30.110	.0109					.0164	.49	2.00	.00	2.00	.013	.00	.00	PIPE
1030.110	2931.479	2.267	2933.746	29.00	9.23	1.32	2935.07	.00	1.85	.00	2.000	.000	.00	0 .0
WALL	ENTRANCE													
1030.110	2931.479	3.600	2935.079	29.00	.66	.01	2935.09	.00	.56	12.29	10.000	12.290	.00	0 .0
2.500	.0004					.0000	.00	3.60	.06	1.10	.013	.00	.00	RECTANG
1032.610	2931.480	3.599	2935.079	29.00	.66	.01	2935.09	.00	.56	12.29	10.000	12.290	.00	0 .0
JUNCT STR	.0000					.0000	.00	3.60	.06		.013	.00	.00	RECTANG
1032.610	2931.480	3.609	2935.089	14.00	7.92	.97	2936.06	.00	1.38	.00	1.500	.000	.00	0 .0
2.500	.2000					.0178	.04	3.61	.00	.56	.013	.00	.00	PIPE
1035.110	2931.980	3.154	2935.134	14.00	7.92	.97	2936.11	.00	1.38	.00	1.500	.000	.00	0 .0
WALL	EXIT													
1035.110	2931.980	3.154	2935.134	14.00	7.92	.97	2936.11	.00	1.38	.00	1.500	.000	.00	0 .0
108.740	.0100					.0178	1.93	3.15	.00	1.50	.013	.00	.00	PIPE
1143.850	2933.070	3.996	2937.066	14.00	7.92	.97	2938.04	.00	1.38	.00	1.500	.000	.00	0 .0

Project Name:	Skye Canyon Parcel 2.10 - TDS Addendum
Project Number:	CEN1909.000
Date:	10/8/2020
By:	SOA

Westwood

STORM SEWER HYDRAULIC CALCULATIONS

CONDUIT DATA							FLOW DATA							LOSS	HGL		COMMENTS	
STATION		SIZE / TYPE	n	INVERTS		LENGTH	A	R	Φ	Q	V	$H_V = V^2/2g$	S_f	PIPE	PIPE		PRESS. FLOW?	OTHER
FROM	TO		Manning's Roughness	D / S ELEV.	U / S ELEV.		(FT^2)	(FT)		(CFS)	(FPS)	(FT)	(FT/FT)	H_f (FT)	D/S HGL ELEV.	U/S HGL ELEV.		
1000	1056.04	ROUND 24" RCP	0.013	2896.50	2897.06	56.04	3.141593	0.500	0.004925	24	7.639437	0.906227	0.011219851	0.629	2898.64	2899.269	Yes	Facility 9 (SDDI #6)
1000	1007.50	ROUND 24" RCP	0.013	2897.13	2897.2	7.5	3.141593	0.500	0.004925	24	7.639437	0.906227	0.011219851	0.084	2900.279	2900.363	Yes	Facility 8 (SDDI #5)
1000	1037.47	ROUND 24" RCP	0.013	2901.95	2902.32	37.47	3.141593	0.500	0.004925	20	6.366198	0.629324	0.007791563	0.292	2904.574	2904.866	Yes	Facility 6 (SDDI #4)
1000	1056.04	ROUND 24" RCP	0.013	2896.50	2897.06	56.04	3.141593	0.500	0.004925	14.5	4.615493	0.330789	0.00409544	0.230	2893.692	2893.922	No	Facility 9 (SDDI #6) - Interim
1000	1007.50	ROUND 24" RCP	0.013	2897.13	2897.20	7.50	3.141593	0.500	0.004925	14.5	4.615493	0.330789	0.00409544	0.031	2894.748	2894.779	No	Facility 8 (SDDI #5) - Interim

$Sf = \Phi Hv / R^{1.33}$

$\Phi = 2g (n^2) / 2.21$

1 - Where pipes are not under pressure, assume U/S HGL is at top of pipe

APPENDIX F

Revised Finished Floor Computations

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline $F.F._{min}$[3] (ft)	T/C + 6" $F.F._{min}$[4] (ft)	$F.F._{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
1	6H	2913.82	2913.44	0.42	2914.28	2914.32	2915.6	OK	OK	
2	6H	2912.66	2912.28	0.42	2913.12	2913.16	2914.5	OK	OK	
3	6H	2911.52	2911.14	0.42	2911.98	2912.02	2913.3	OK	OK	
4	6H	2910.81	2910.43	0.42	2911.27	2911.31	2912.6	OK	OK	
5	6H	2910.11	2909.73	0.42	2910.57	2910.61	2911.9	OK	OK	
6	6	2909.41	2909.03	0.56	2910.15	2909.91	2911.2	OK	OK	
7	6	2909.00	2908.62	0.56	2909.74	2909.50	2910.8	OK	OK	
8	6	2908.64	2908.26	0.56	2909.38	2909.14	2910.4	OK	OK	
9	6	2908.28	2907.90	0.56	2909.02	2908.78	2910.1	OK	OK	
10	6	2907.92	2907.54	0.56	2908.66	2908.42	2909.7	OK	OK	
11	6	2907.56	2907.18	0.56	2908.30	2908.06	2909.4	OK	OK	
12	6	2907.20	2906.82	0.56	2907.94	2907.70	2909.0	OK	OK	
13	6	2906.84	2906.46	0.56	2907.58	2907.34	2908.6	OK	OK	
14	6	2906.48	2906.10	0.56	2907.22	2906.98	2908.3	OK	OK	
15	6	2906.12	2905.74	0.56	2906.86	2906.62	2907.9	OK	OK	
16	6	2905.76	2905.38	0.56	2906.50	2906.26	2907.6	OK	OK	
17	6	2905.40	2905.02	0.56	2906.14	2905.90	2907.2	OK	OK	
18	6	2905.04	2904.66	0.56	2905.78	2905.54	2906.8	OK	OK	
19	6	2904.68	2904.30	0.56	2905.42	2905.18	2906.5	OK	OK	
20	6	2904.32	2903.94	0.56	2905.06	2904.82	2906.1	OK	OK	
21	6	2903.93	2903.55	0.56	2904.67	2904.43	2905.7	OK	OK	
22	6	2903.35	2902.97	0.56	2904.09	2903.85	2905.2	OK	OK	
23	6	2902.91	2902.53	0.56	2903.65	2903.41	2904.7	OK	OK	
24	6	2902.71	2902.33	0.56	2903.45	2903.21	2904.5	OK	OK	
25	6	2903.61	2903.23	0.56	2904.35	2904.11	2905.4	OK	OK	
26	6	2904.83	2904.45	0.56	2905.57	2905.33	2906.6	OK	OK	
27	6	2906.64	2906.26	0.56	2907.38	2907.14	2908.4	OK	OK	
28	8	2908.45	2908.07	0.57	2909.21	2908.95	2910.3	OK	OK	
29	8	2909.77	2909.39	0.57	2910.53	2910.27	2911.6	OK	OK	
30	8	2910.96	2910.58	0.57	2911.72	2911.46	2912.8	OK	OK	
31	8	2912.76	2912.38	0.57	2913.52	2913.26	2914.6	OK	OK	
32	8	2915.18	2914.80	0.57	2915.94	2915.68	2917.0	OK	OK	
33	5C	2911.22	2910.84	0.44	2911.72	2911.72	2913.0	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline F.F.$_{min}$[3] (ft)	T/C + 6" F.F.$_{min}$[4] (ft)	F.F.$_{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
34	5C	2911.52	2911.14	0.44	2912.02	2912.02	2913.3	OK	OK	
35	5C	2911.88	2911.50	0.44	2912.38	2912.38	2913.6	OK	OK	
36	5C	2912.24	2911.86	0.44	2912.74	2912.74	2914.0	OK	OK	
37	5C	2912.60	2912.22	0.44	2913.10	2913.10	2914.3	OK	OK	
38	5C	2912.96	2912.58	0.44	2913.46	2913.46	2914.7	OK	OK	
39	5C	2913.32	2912.94	0.44	2913.82	2913.82	2915.0	OK	OK	
40	5C	2913.68	2913.30	0.44	2914.18	2914.18	2915.4	OK	OK	
41	5C	2914.04	2913.66	0.44	2914.54	2914.54	2915.8	OK	OK	
42	5C	2914.40	2914.02	0.44	2914.90	2914.90	2916.1	OK	OK	
43	5C	2914.82	2914.44	0.44	2915.32	2915.32	2916.5	OK	OK	
44	5C	2915.27	2914.89	0.44	2915.77	2915.77	2917.0	OK	OK	
45	5C	2915.72	2915.34	0.44	2916.22	2916.22	2917.4	OK	OK	
46	5C	11.00	10.62	0.44	11.50	11.50	2917.9	OK	OK	
47	6	2917.59	2917.21	0.56	2918.33	2918.09	2919.0	OK	OK	
48	6	2916.79	2916.41	0.56	2917.53	2917.29	2918.6	OK	OK	
49	6	2916.26	2915.88	0.56	2917.00	2916.76	2918.1	OK	OK	
50	6	2915.79	2915.41	0.56	2916.53	2916.29	2917.6	OK	OK	
51	6	2915.34	2914.96	0.56	2916.08	2915.84	2917.2	OK	OK	
52	6	2914.89	2914.51	0.56	2915.63	2915.39	2916.7	OK	OK	
53	5C	2913.94	2913.56	0.44	2914.44	2914.44	2915.8	OK	OK	
54	5C	2913.70	2913.32	0.44	2914.20	2914.20	2915.5	OK	OK	
55	5C	2913.34	2912.96	0.44	2913.84	2913.84	2915.2	OK	OK	
56	5C	2912.98	2912.60	0.44	2913.48	2913.48	2914.8	OK	OK	
57	5C	2912.62	2912.24	0.44	2913.12	2913.12	2914.4	OK	OK	
58	5C	2912.26	2911.88	0.44	2912.76	2912.76	2914.1	OK	OK	
59	5C	2911.90	2911.52	0.44	2912.40	2912.40	2913.7	OK	OK	
60	5C	2911.54	2911.16	0.44	2912.04	2912.04	2913.4	OK	OK	
61	5C	2910.84	2910.46	0.44	2911.34	2911.34	2912.7	OK	OK	
62	6	2903.70	2903.32	0.56	2904.44	2904.20	2905.5	OK	OK	
63	6	2903.99	2903.61	0.56	2904.73	2904.49	2905.8	OK	OK	
64	6	2904.35	2903.97	0.56	2905.09	2904.85	2906.1	OK	OK	
65	6	2904.71	2904.33	0.56	2905.45	2905.21	2906.4	OK	OK	
66	6	2905.07	2904.69	0.56	2905.81	2905.57	2906.8	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline F.F.$_{min}$[3] (ft)	T/C + 6" F.F.$_{min}$[4] (ft)	F.F.$_{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
67	6	2905.43	2905.05	0.56	2906.17	2905.93	2907.1	OK	OK	
68	6	2905.79	2905.41	0.56	2906.53	2906.29	2907.5	OK	OK	
69	6	2906.15	2905.77	0.56	2906.89	2906.65	2907.9	OK	OK	
70	6	2906.39	2906.01	0.56	2907.13	2906.89	2908.2	OK	OK	
71	6	2907.28	2906.90	0.56	2908.02	2907.78	2909.0	OK	OK	
72	6	2907.64	2907.26	0.56	2908.38	2908.14	2909.4	OK	OK	
73	6	2908.00	2907.62	0.56	2908.74	2908.50	2909.7	OK	OK	
74	6	2908.36	2907.98	0.56	2909.10	2908.86	2910.1	OK	OK	
75	6	2908.72	2908.34	0.56	2909.46	2909.22	2910.6	OK	OK	
76	6	2909.19	2908.81	0.56	2909.93	2909.69	2911.0	OK	OK	
77	6H	2924.41	2924.03	0.42	2924.87	2924.91	2926.1	OK	OK	
78	6H	2921.91	2921.53	0.42	2922.37	2922.41	2923.6	OK	OK	
79	6H	2919.32	2918.94	0.42	2919.78	2919.82	2921.0	OK	OK	
80	6H	2916.74	2916.36	0.42	2917.20	2917.24	2918.5	OK	OK	
81	6H	2914.41	2914.03	0.42	2914.87	2914.91	2916.1	OK	OK	
82	6H	2912.43	2912.05	0.42	2912.89	2912.93	2914.1	OK	OK	
83	6H	2912.51	2912.13	0.42	2912.97	2913.01	2914.3	OK	OK	
84	6H	2914.75	2914.37	0.42	2915.21	2915.25	2916.6	OK	OK	
85	6H	2917.42	2917.04	0.42	2917.88	2917.92	2919.2	OK	OK	
86	6H	2920.30	2919.92	0.42	2920.76	2920.80	2922.1	OK	OK	
87	6H	2923.21	2922.83	0.42	2923.67	2923.71	2925.0	OK	OK	
88	6H	2929.05	2928.67	0.42	2929.51	2929.55	2930.9	OK	OK	
89	6H	2930.80	2930.42	0.42	2931.26	2931.30	2932.6	OK	OK	
90	3G	2932.65	2932.27	0.34	2932.95	2933.15	2934.5	OK	OK	
91	3G	2935.77	2935.39	0.34	2936.07	2936.27	2937.6	OK	OK	
92	3G	2937.92	2937.54	0.34	2938.22	2938.42	2939.5	OK	OK	
93	3G	2939.70	2939.32	0.34	2940.00	2940.20	2941.3	OK	OK	
94	3G	2941.53	2941.15	0.34	2941.83	2942.03	2943.1	OK	OK	
95	3G	2943.44	2943.06	0.34	2943.74	2943.94	2945.1	OK	OK	
96	3G	2945.35	2944.97	0.34	2945.65	2945.85	2947.0	OK	OK	
97	3G	2947.26	2946.88	0.34	2947.56	2947.76	2948.9	OK	OK	
98	3G	2949.18	2948.80	0.34	2949.48	2949.68	2950.8	OK	OK	
99	3G	2951.09	2950.71	0.34	2951.39	2951.59	2952.7	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline F.F.$_{-min}$[3] (ft)	T/C + 6" F.F.$_{-min}$[4] (ft)	F.F.$_{-Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
100	3G	2957.28	2956.90	0.34	2957.58	2957.78	2958.9	OK	OK	
101	3G	2958.56	2958.18	0.34	2958.86	2959.06	2960.2	OK	OK	
102	3B	2958.56	2958.18	0.36	2958.90	2959.06	2960.1	OK	OK	
103	3B	2955.74	2955.36	0.36	2956.08	2956.24	2957.3	OK	OK	
104	3B	2953.54	2953.16	0.36	2953.88	2954.04	2955.1	OK	OK	
105	3B	2951.32	2950.94	0.36	2951.66	2951.82	2952.8	OK	OK	
106	3B	2949.41	2949.03	0.36	2949.75	2949.91	2950.9	OK	OK	
107	3B	2947.49	2947.11	0.36	2947.83	2947.99	2949.0	OK	OK	
108	3B	2945.58	2945.20	0.36	2945.92	2946.08	2947.1	OK	OK	
109	3B	2943.67	2943.29	0.36	2944.01	2944.17	2945.2	OK	OK	
110	3B	2941.76	2941.38	0.36	2942.10	2942.26	2943.3	OK	OK	
111	3B	2939.32	2938.94	0.36	2939.66	2939.82	2940.8	OK	OK	
112	3B	2937.09	2936.71	0.36	2937.43	2937.59	2938.6	OK	OK	
113	3B	2935.29	2934.91	0.36	2935.63	2935.79	2936.8	OK	OK	
114	3B	2933.49	2933.11	0.36	2933.83	2933.99	2935.0	OK	OK	
115	3B	2925.38	2925.00	0.36	2925.72	2925.88	2927.0	OK	OK	
116	3B	2927.65	2927.27	0.36	2927.99	2928.15	2929.2	OK	OK	
117	3B	2930.02	2929.64	0.36	2930.36	2930.52	2931.5	OK	OK	
118	3B	2932.60	2932.22	0.36	2932.94	2933.10	2934.1	OK	OK	
119	3B	2935.19	2934.81	0.36	2935.53	2935.69	2936.7	OK	OK	
120	3B	2937.78	2937.40	0.36	2938.12	2938.28	2939.3	OK	OK	
121	3B	2940.37	2939.99	0.36	2940.71	2940.87	2941.9	OK	OK	
122	3B	2942.95	2942.57	0.36	2943.29	2943.45	2944.5	OK	OK	
123	3B	2945.48	2945.10	0.36	2945.82	2945.98	2947.0	OK	OK	
124	3B	2947.82	2947.44	0.36	2948.16	2948.32	2949.3	OK	OK	
125	3B	2949.27	2948.89	0.36	2949.61	2949.77	2950.8	OK	OK	
126	3B	2950.30	2949.92	0.36	2950.64	2950.80	2951.8	OK	OK	
127	3B	2950.30	2949.92	0.36	2950.64	2950.80	2951.8	OK	OK	
128	3B	2948.81	2948.43	0.36	2949.15	2949.31	2950.3	OK	OK	
129	3B	2947.06	2946.68	0.36	2947.40	2947.56	2948.6	OK	OK	
130	3B	2944.50	2944.12	0.36	2944.84	2945.00	2946.1	OK	OK	
131	3B	2941.91	2941.53	0.36	2942.25	2942.41	2943.5	OK	OK	
132	3B	2939.32	2938.94	0.36	2939.66	2939.82	2940.9	OK	OK	
133	3B	2936.73	2936.35	0.36	2937.07	2937.23	2938.3	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline $F.F._{min}$[3] (ft)	T/C + 6" $F.F._{min}$[4] (ft)	$F.F._{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
134	3B	2934.15	2933.77	0.36	2934.49	2934.65	2935.8	OK	OK	
135	3B	2931.56	2931.18	0.36	2931.90	2932.06	2933.2	OK	OK	
136	3B	2929.00	2928.62	0.36	2929.34	2929.50	2930.6	OK	OK	
137	3B	2926.87	2926.49	0.36	2927.21	2927.37	2928.5	OK	OK	
138	3B	2925.38	2925.00	0.36	2925.72	2925.88	2927.0	OK	OK	
139	3F	2923.44	2923.06	0.32	2923.70	2923.94	2925.0	OK	OK	
140	3F	2925.20	2924.82	0.32	2925.46	2925.70	2926.7	OK	OK	
141	3F	2927.67	2927.29	0.32	2927.93	2928.17	2929.2	OK	OK	
142	3F	2930.36	2929.98	0.32	2930.62	2930.86	2931.9	OK	OK	
143	3F	2933.06	2932.68	0.32	2933.32	2933.56	2934.6	OK	OK	
144	3F	2935.76	2935.38	0.32	2936.02	2936.26	2937.3	OK	OK	
145	3F	2938.46	2938.08	0.32	2938.72	2938.96	2940.0	OK	OK	
146	3F	2941.15	2940.77	0.32	2941.41	2941.65	2942.7	OK	OK	
147	3F	2943.61	2943.23	0.32	2943.87	2944.11	2945.1	OK	OK	
148	3F	2945.28	2944.90	0.32	2945.54	2945.78	2946.8	OK	OK	
149	3F	2946.68	2946.30	0.32	2946.94	2947.18	2948.2	OK	OK	
150	3F	2946.68	2946.30	0.32	2946.94	2947.18	2948.2	OK	OK	
151	3F	2945.23	2944.85	0.32	2945.49	2945.73	2946.8	OK	OK	
152	3F	2943.49	2943.11	0.32	2943.75	2943.99	2945.0	OK	OK	
153	3F	2940.92	2940.54	0.32	2941.18	2941.42	2942.5	OK	OK	
154	3F	2938.22	2937.84	0.32	2938.48	2938.72	2939.8	OK	OK	
155	3F	2935.52	2935.14	0.32	2935.78	2936.02	2937.1	OK	OK	
156	3F	2932.82	2932.44	0.32	2933.08	2933.32	2934.4	OK	OK	
157	3F	2930.12	2929.74	0.32	2930.38	2930.62	2931.7	OK	OK	
158	3F	2927.43	2927.05	0.32	2927.69	2927.93	2929.0	OK	OK	
159	3F	2925.15	2924.77	0.32	2925.41	2925.65	2926.8	OK	OK	
160	3F	2923.44	2923.06	0.32	2923.70	2923.94	2925.1	OK	OK	
161	3E	2921.69	2921.31	0.31	2921.93	2922.19	2923.3	OK	OK	
162	3E	2923.22	2922.84	0.31	2923.46	2923.72	2924.8	OK	OK	
163	3E	2925.43	2925.05	0.31	2925.67	2925.93	2927.0	OK	OK	
164	3E	2928.11	2927.73	0.31	2928.35	2928.61	2929.7	OK	OK	
165	3E	2930.81	2930.43	0.31	2931.05	2931.31	2932.4	OK	OK	
166	3E	2933.51	2933.13	0.31	2933.75	2934.01	2935.1	OK	OK	
167	3E	2936.21	2935.83	0.31	2936.45	2936.71	2937.8	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline $F.F._{-min}$[3] (ft)	T/C + 6" $F.F._{-min}$[4] (ft)	$F.F._{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
168	3E	2937.47	2937.09	0.31	2937.71	2937.97	2939.1	OK	OK	
169	3E	2938.23	2937.85	0.31	2938.47	2938.73	2939.8	OK	OK	
170	3E	2938.76	2938.38	0.31	2939.00	2939.26	2940.4	OK	OK	
171	3E	2939.48	2939.10	0.31	2939.72	2939.98	2941.1	OK	OK	
172	3E	2940.41	2940.03	0.31	2940.65	2940.91	2942.0	OK	OK	
173	4	2940.41	2940.03	0.54	2941.11	2940.91	2942.0	OK	OK	
174	4	2938.31	2937.93	0.54	2939.01	2938.81	2939.9	OK	OK	
175	4	2937.59	2937.21	0.54	2938.29	2938.09	2939.2	OK	OK	
176	4	2935.96	2935.58	0.54	2936.66	2936.46	2937.6	OK	OK	
177	4	2933.60	2933.22	0.54	2934.30	2934.10	2935.2	OK	OK	
178	4	2930.99	2930.61	0.54	2931.69	2931.49	2932.6	OK	OK	
179	4	2928.38	2928.00	0.54	2929.08	2928.88	2930.0	OK	OK	
180	4	2925.77	2925.39	0.54	2926.47	2926.27	2927.4	OK	OK	
181	4	2923.25	2922.87	0.54	2923.95	2923.75	2924.9	OK	OK	
182	4	2921.05	2920.67	0.54	2921.75	2921.55	2922.7	OK	OK	
183	4	2919.48	2919.10	0.54	2920.18	2919.98	2921.1	OK	OK	
184	4	2918.52	2918.14	0.54	2919.22	2919.02	2920.1	OK	OK	
185	4	2917.64	2917.26	0.54	2918.34	2918.14	2919.3	OK	OK	
186	4	2916.64	2916.26	0.54	2917.34	2917.14	2918.3	OK	OK	
187	4	2923.34	2922.96	0.54	2924.04	2923.84	2924.9	OK	OK	
188	4	2926.17	2925.79	0.54	2926.87	2926.67	2927.7	OK	OK	
189	4	2928.97	2928.59	0.54	2929.67	2929.47	2930.5	OK	OK	
190	4	2931.77	2931.39	0.54	2932.47	2932.27	2933.3	OK	OK	
191	3E	2937.85	2937.47	0.31	2938.09	2938.35	2939.4	OK	OK	
192	3E	2935.27	2934.89	0.31	2935.51	2935.77	2936.8	OK	OK	
193	3E	2932.56	2932.18	0.31	2932.80	2933.06	2934.1	OK	OK	
194	3E	2929.86	2929.48	0.31	2930.10	2930.36	2931.4	OK	OK	
195	3E	2927.15	2926.77	0.31	2927.39	2927.65	2928.7	OK	OK	
196	3E	2924.56	2924.18	0.31	2924.80	2925.06	2926.1	OK	OK	
197	7	2920.35	2919.97	0.56	2921.09	2920.85	2922.0	OK	OK	
198	7	2920.11	2919.73	0.56	2920.85	2920.61	2921.6	OK	OK	
199	7	2919.75	2919.37	0.56	2920.49	2920.25	2921.3	OK	OK	
200	7	2919.39	2919.01	0.56	2920.13	2919.89	2921.0	OK	OK	
201	7	2919.02	2918.64	0.56	2919.76	2919.52	2920.6	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline F.F.$_{min}$[3] (ft)	T/C + 6" F.F.$_{min}$[4] (ft)	F.F.$_{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
202	7	2918.41	2918.03	0.56	2919.15	2918.91	2920.1	OK	OK	
203	7	2919.02	2918.64	0.56	2919.76	2919.52	2920.7	OK	OK	
204	7	2919.54	2919.16	0.56	2920.28	2920.04	2921.2	OK	OK	
205	7	2919.90	2919.52	0.56	2920.64	2920.40	2921.5	OK	OK	
206	7	2920.26	2919.88	0.56	2921.00	2920.76	2921.9	OK	OK	
207	7	2920.62	2920.24	0.56	2921.36	2921.12	2922.2	OK	OK	
208	7	2920.98	2920.60	0.56	2921.72	2921.48	2922.6	OK	OK	
209	7	2921.34	2920.96	0.56	2922.08	2921.84	2923.0	OK	OK	
210	3	2921.70	2921.32	0.52	2922.36	2922.20	2923.3	OK	OK	
211	3	2922.06	2921.68	0.52	2922.72	2922.56	2923.7	OK	OK	
212	3	2922.42	2922.04	0.52	2923.08	2922.92	2924.0	OK	OK	
213	3	2922.78	2922.40	0.52	2923.44	2923.28	2924.4	OK	OK	
214	3	2923.14	2922.76	0.52	2923.80	2923.64	2924.8	OK	OK	
215	3	2923.50	2923.12	0.52	2924.16	2924.00	2925.1	OK	OK	
216	3	2924.19	2923.81	0.52	2924.85	2924.69	2925.8	OK	OK	
217	3	2925.59	2925.21	0.52	2926.25	2926.09	2927.2	OK	OK	
218	3	2927.52	2927.14	0.52	2928.18	2928.02	2929.1	OK	OK	
219	3	2929.21	2928.83	0.52	2929.87	2929.71	2930.8	OK	OK	
220	3	2930.08	2929.70	0.52	2930.74	2930.58	2931.8	OK	OK	
221	1	2963.21	2962.71	0.39	2963.49	2963.71	2964.8	OK	OK	
222	1B	2963.10	2962.72	0.39	2963.50	2963.60	2964.8	OK	OK	
223	1B	2962.97	2962.59	0.39	2963.37	2963.47	2964.8	OK	OK	
224	1B	2963.26	2962.88	0.39	2963.66	2963.76	2964.8	OK	OK	
225	1B	2963.00	2962.62	0.39	2963.40	2963.50	2964.4	OK	OK	
226	1B	2962.65	2962.27	0.39	2963.05	2963.15	2964.4	OK	OK	
227	1B	2962.78	2962.40	0.39	2963.18	2963.28	2964.4	OK	OK	
228	1B	2962.93	2962.55	0.39	2963.33	2963.43	2964.4	OK	OK	
229	1B	2963.08	2962.70	0.39	2963.48	2963.58	2965.0	OK	OK	
230	1B	2963.20	2962.82	0.39	2963.60	2963.70	2965.0	OK	OK	
231	1B	2963.33	2962.95	0.39	2963.73	2963.83	2965.0	OK	OK	
232	1B	2963.59	2963.21	0.39	2963.99	2964.09	2965.0	OK	OK	
233	1B	2963.59	2963.21	0.39	2963.99	2964.09	2965.0	OK	OK	
234	1B	2963.33	2962.95	0.39	2963.73	2963.83	2965.0	OK	OK	
235	1B	2963.20	2962.82	0.39	2963.60	2963.70	2965.0	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline F.F.$_{min}$[3] (ft)	T/C + 6" F.F.$_{min}$[4] (ft)	F.F.$_{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
236	1B	2963.08	2962.70	0.39	2963.48	2963.58	2965.0	OK	OK	
237	1B	2962.93	2962.55	0.39	2963.33	2963.43	2964.2	OK	OK	
238	1B	2962.78	2962.40	0.39	2963.18	2963.28	2964.2	OK	OK	
239	1B	2962.65	2962.27	0.39	2963.05	2963.15	2964.2	OK	OK	
240	1B	2962.12	2961.74	0.39	2962.52	2962.62	2963.8	OK	OK	
241	1B	2962.30	2961.92	0.39	2962.70	2962.80	2963.8	OK	OK	
242	1B	2962.51	2962.13	0.39	2962.91	2963.01	2963.8	OK	OK	
243	1B	2962.72	2962.34	0.39	2963.12	2963.22	2964.4	OK	OK	
244	1B	2962.90	2962.52	0.39	2963.30	2963.40	2964.4	OK	OK	
245	1B	2963.21	2962.83	0.39	2963.61	2963.71	2964.4	OK	OK	
246	1B	2956.94	2956.56	0.39	2957.34	2957.44	2958.7	OK	OK	
247	1B	2957.13	2956.75	0.39	2957.53	2957.63	2958.7	OK	OK	
248	1B	2957.37	2956.99	0.39	2957.77	2957.87	2958.7	OK	OK	
249	1B	2957.60	2957.22	0.39	2958.00	2958.10	2959.4	OK	OK	
250	1B	2957.80	2957.42	0.39	2958.20	2958.30	2959.4	OK	OK	
251	1B	2958.00	2957.62	0.39	2958.40	2958.50	2959.4	OK	OK	
252	1B	2958.17	2957.79	0.39	2958.57	2958.67	2959.4	OK	OK	
253	1B	2959.16	2958.78	0.39	2959.56	2959.66	2961.0	OK	OK	
254	1B	2959.28	2958.90	0.39	2959.68	2959.78	2961.0	OK	OK	
255	1B	2959.43	2959.05	0.39	2959.83	2959.93	2961.0	OK	OK	
256	1B	2959.58	2959.20	0.39	2959.98	2960.08	2961.5	OK	OK	
257	1B	2959.70	2959.32	0.39	2960.10	2960.20	2961.5	OK	OK	
258	1B	2959.83	2959.45	0.39	2960.23	2960.33	2961.5	OK	OK	
259	1B	2959.92	2959.54	0.39	2960.32	2960.42	2961.5	OK	OK	
260	1B	2959.92	2959.54	0.39	2960.32	2960.42	2961.3	OK	OK	
261	1B	2959.78	2959.40	0.39	2960.18	2960.28	2961.3	OK	OK	
262	1B	2959.58	2959.20	0.39	2959.98	2960.08	2961.3	OK	OK	
263	1B	2959.38	2959.00	0.39	2959.78	2959.88	2961.3	OK	OK	
264	1B	2959.15	2958.77	0.39	2959.55	2959.65	2960.5	OK	OK	
265	1B	2958.92	2958.54	0.39	2959.32	2959.42	2960.5	OK	OK	
266	1B	2958.72	2958.34	0.39	2959.12	2959.22	2960.5	OK	OK	
267	1B	2958.17	2957.79	0.39	2958.57	2958.67	2959.4	OK	OK	
268	1B	2958.00	2957.62	0.39	2958.40	2958.50	2959.4	OK	OK	
269	1B	2957.80	2957.42	0.39	2958.20	2958.30	2959.4	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline F.F.$_{min}$[3] (ft)	T/C + 6" F.F.$_{min}$[4] (ft)	F.F.$_{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
270	1B	2957.60	2957.22	0.39	2958.00	2958.10	2959.4	OK	OK	
271	1B	2957.37	2956.99	0.39	2957.77	2957.87	2958.7	OK	OK	
272	1B	2957.14	2956.76	0.39	2957.54	2957.64	2958.7	OK	OK	
273	1B	2956.94	2956.56	0.39	2957.34	2957.44	2958.7	OK	OK	
274	1B	2953.64	2953.26	0.39	2954.04	2954.14	2955.4	OK	OK	
275	1B	2953.84	2953.46	0.39	2954.24	2954.34	2955.4	OK	OK	
276	1B	2954.07	2953.69	0.39	2954.47	2954.57	2955.4	OK	OK	
277	1B	2954.30	2953.92	0.39	2954.70	2954.80	2956.1	OK	OK	
278	1B	2954.50	2954.12	0.39	2954.90	2955.00	2956.1	OK	OK	
279	1B	2954.70	2954.32	0.39	2955.10	2955.20	2956.1	OK	OK	
280	1B	2954.87	2954.49	0.39	2955.27	2955.37	2956.1	OK	OK	
281	1B	2955.86	2955.48	0.39	2956.26	2956.36	2957.7	OK	OK	
282	1B	2955.98	2955.60	0.39	2956.38	2956.48	2957.7	OK	OK	
283	1B	2956.13	2955.75	0.39	2956.53	2956.63	2957.7	OK	OK	
284	1B	2956.28	2955.90	0.39	2956.68	2956.78	2958.2	OK	OK	
285	1B	2956.40	2956.02	0.39	2956.80	2956.90	2958.2	OK	OK	
286	1B	2956.53	2956.15	0.39	2956.93	2957.03	2958.2	OK	OK	
287	1B	2956.62	2956.24	0.39	2957.02	2957.12	2958.2	OK	OK	
288	1B	2956.62	2956.24	0.39	2957.02	2957.12	2958.0	OK	OK	
289	1B	2956.48	2956.10	0.39	2956.88	2956.98	2958.0	OK	OK	
290	1B	2956.28	2955.90	0.39	2956.68	2956.78	2958.0	OK	OK	
291	1B	2956.08	2955.70	0.39	2956.48	2956.58	2958.0	OK	OK	
292	1B	2955.85	2955.47	0.39	2956.25	2956.35	2957.1	OK	OK	
293	1B	2955.62	2955.24	0.39	2956.02	2956.12	2957.1	OK	OK	
294	1B	2955.42	2955.04	0.39	2955.82	2955.92	2957.1	OK	OK	
295	1B	2954.87	2954.49	0.39	2955.27	2955.37	2956.1	OK	OK	
296	1B	2954.70	2954.32	0.39	2955.10	2955.20	2956.1	OK	OK	
297	1B	2954.50	2954.12	0.39	2954.90	2955.00	2956.1	OK	OK	
298	1B	2954.30	2953.92	0.39	2954.70	2954.80	2956.1	OK	OK	
299	1B	2954.07	2953.69	0.39	2954.47	2954.57	2955.4	OK	OK	
300	1B	2953.84	2953.46	0.39	2954.24	2954.34	2955.4	OK	OK	
301	1B	2953.64	2953.26	0.39	2954.04	2954.14	2955.4	OK	OK	
302	1B	2948.48	2948.10	0.39	2948.88	2948.98	2950.2	OK	OK	
303	1B	2948.68	2948.30	0.39	2949.08	2949.18	2950.2	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline $F.F._{min}$[3] (ft)	T/C + 6" $F.F._{min}$[4] (ft)	$F.F._{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
304	1B	2948.91	2948.53	0.39	2949.31	2949.41	2950.2	OK	OK	
305	1B	2949.14	2948.76	0.39	2949.54	2949.64	2951.0	OK	OK	
306	1B	2949.34	2948.96	0.39	2949.74	2949.84	2951.0	OK	OK	
307	1B	2949.54	2949.16	0.39	2949.94	2950.04	2951.0	OK	OK	
308	1B	2949.70	2949.32	0.39	2950.10	2950.20	2951.0	OK	OK	
309	1B	2950.70	2950.32	0.39	2951.10	2951.20	2952.5	OK	OK	
310	1B	2950.83	2950.45	0.39	2951.23	2951.33	2952.5	OK	OK	
311	1B	2950.97	2950.59	0.39	2951.37	2951.47	2952.5	OK	OK	
312	1B	2951.12	2950.74	0.39	2951.52	2951.62	2953.1	OK	OK	
313	1B	2951.25	2950.87	0.39	2951.65	2951.75	2953.1	OK	OK	
314	1B	2951.37	2950.99	0.39	2951.77	2951.87	2953.1	OK	OK	
315	1B	2951.46	2951.08	0.39	2951.86	2951.96	2953.1	OK	OK	
316	1B	2951.46	2951.08	0.39	2951.86	2951.96	2952.9	OK	OK	
317	1B	2951.32	2950.94	0.39	2951.72	2951.82	2952.9	OK	OK	
318	1B	2951.12	2950.74	0.39	2951.52	2951.62	2952.9	OK	OK	
319	1B	2950.92	2950.54	0.39	2951.32	2951.42	2952.9	OK	OK	
320	1B	2950.69	2950.31	0.39	2951.09	2951.19	2952.0	OK	OK	
321	1B	2950.46	2950.08	0.39	2950.86	2950.96	2952.0	OK	OK	
322	1B	2950.26	2949.88	0.39	2950.66	2950.76	2952.0	OK	OK	
323	1B	2949.70	2949.32	0.39	2950.10	2950.20	2951.0	OK	OK	
324	1B	2949.53	2949.15	0.39	2949.93	2950.03	2951.0	OK	OK	
325	1B	2949.33	2948.95	0.39	2949.73	2949.83	2951.0	OK	OK	
326	1B	2949.13	2948.75	0.39	2949.53	2949.63	2951.0	OK	OK	
327	1B	2948.92	2948.54	0.39	2949.32	2949.42	2950.2	OK	OK	
328	1B	2948.70	2948.32	0.39	2949.10	2949.20	2950.2	OK	OK	
329	1B	2948.50	2948.12	0.39	2948.90	2949.00	2950.2	OK	OK	
330	1B	2945.37	2944.99	0.39	2945.77	2945.87	2947.1	OK	OK	
331	1B	2945.57	2945.19	0.39	2945.97	2946.07	2947.1	OK	OK	
332	1B	2945.80	2945.42	0.39	2946.20	2946.30	2947.1	OK	OK	
333	1B	2946.02	2945.64	0.39	2946.42	2946.52	2947.7	OK	OK	
334	1B	2946.22	2945.84	0.39	2946.62	2946.72	2947.7	OK	OK	
335	1B	2946.42	2946.04	0.39	2946.82	2946.92	2947.7	OK	OK	
336	1B	2947.42	2947.04	0.39	2947.82	2947.92	2949.2	OK	OK	
337	1B	2947.54	2947.16	0.39	2947.94	2948.04	2949.2	OK	OK	

PROJECT NAME FINISHED FLOOR - CITY OF LAS VEGAS JURISDICTION										
INPUT INFORMATION					FINISHED FLOORS					NOTES
Lot Number	Hydraulic Section Utilized	T/C[1] (ft)	F/L[2] (ft)	D_{100} (ft)	Flowline $F.F._{min}$[3] (ft)	T/C + 6" $F.F._{min}$[4] (ft)	$F.F._{Design}$ (ft)	Flowline Check	T/C + 6" Check	See References on Last Sheet
338	1B	2947.69	2947.31	0.39	2948.09	2948.19	2949.2	OK	OK	
339	1B	2947.85	2947.47	0.39	2948.25	2948.35	2949.8	OK	OK	
340	1B	2947.97	2947.59	0.39	2948.37	2948.47	2949.8	OK	OK	
341	1B	2948.09	2947.71	0.39	2948.49	2948.59	2949.8	OK	OK	
342	1B	2948.17	2947.79	0.39	2948.57	2948.67	2949.8	OK	OK	
343	2	2946.33	2945.95	0.41	2946.77	2946.83	2948.0	OK	OK	
344	2	2946.19	2945.81	0.41	2946.63	2946.69	2948.0	OK	OK	
345	2	2945.99	2945.61	0.41	2946.43	2946.49	2948.0	OK	OK	
346	2	2945.80	2945.42	0.41	2946.24	2946.30	2947.1	OK	OK	
347	2	2945.57	2945.19	0.41	2946.01	2946.07	2947.1	OK	OK	
348	2	2945.37	2944.99	0.41	2945.81	2945.87	2947.1	OK	OK	
349	2	2945.17	2944.79	0.41	2945.61	2945.67	2947.1	OK	OK	
350	1B	2946.36	2945.98	0.39	2946.76	2946.86	2947.6	OK	OK	
351	1B	2946.14	2945.76	0.39	2946.54	2946.64	2947.6	OK	OK	
352	1B	2945.94	2945.56	0.39	2946.34	2946.44	2947.6	OK	OK	
353	1B	2945.75	2945.37	0.39	2946.15	2946.25	2947.6	OK	OK	

Where:

1: Top of Curb at High Side of Lot

2: TC-0.38 (For Roll Curb), TC-0.5 (For L Curb)

3: Minimum Allowable Finished Floor Elevation above flowline elevation @ high side of lot = (2 x D_{100}) + F/L

4: City of Las Vegas minimum allowable finished floor elevation = T.C. @ high side of lot + 6-inches

5: These lots have an adjacent solid grouted wall that protects the FF.

City of Las Vegas Finished Floor Criteria:

-The finished floor shall be set a vertical distance above the gutter flowline of at least twice the depth of flow in the gutter flowline up to a maximum of 18 inches above the WSEL in the street. Per HCDDM, Section 304.4.

Supplemental Finish Floor Checks

Drainage Easements Check							
Lot Number	High TC/FL[1]	Section	Flow Depth[2]	Min FF[3]	Design FF	Check	Solid Grout
246	2957.66	U3	0.43	2959.59	2958.70	CHECK	Yes
273	2955.68	U3	0.43	2957.61	2958.70	OK	No
274	2954.36	U3	0.43	2956.29	2955.40	CHECK	Yes
301	2952.38	U3	0.43	2954.31	2955.40	OK	No
302	2949.30	U3	0.43	2951.23	2950.20	CHECK	Yes
329	2947.23	U3	0.43	2949.16	2950.20	OK	No
330	2945.89	U3	0.43	2947.82	2947.10	CHECK	Yes

1: High TC/FL is at the high side of the drainage easement flowline or the highest TC adjacent to the easement if flow is weiring over the curb.

2: Flow depth is either normal depth or weir depth (whichever is higher).

3: Min FF is the High TC/FL plus the Flow Depth plus 18 inches.

Adjacent/Perimeter Street Check									
Lot Number	Street	High TC[1]	High FL[2]	Section	Flow Depth[3]	Min FF[4]	Design FF	Check	Solid Grout
22	THURSO AVE	2902.26	2901.88	8	0.57	2903.02	2905.2	OK	No
62	THURSO AVE	2906.53	2906.15	8	0.57	2907.29	2905.5	CHECK	Yes
61	THURSO AVE	2906.53	2906.15	8	0.57	2907.29	2912.7	OK	No
33	BURRAY ST	2915.14	2914.76	4	0.54	2915.84	2913.0	CHECK	Yes
202	BURRAY ST	2915.14	2917.24	4	0.54	2918.32	2920.1	OK	No
114	LUSE ST	2928.16	2927.78	3	0.52	2928.82	2935.0	OK	No
115	LUSE ST	2928.16	2925.59	3	0.52	2926.63	2927.0	OK	No
138	LUSE ST	2923.09	2922.71	3	0.52	2923.75	2927.0	OK	No
139	LUSE ST	2923.09	2922.71	3	0.52	2923.75	2925.0	OK	No
160	LUSE ST	2921.48	2921.10	3	0.52	2922.14	2925.1	OK	No
161	LUSE ST	2921.48	2921.10	3	0.52	2922.14	2923.3	OK	No
197	LUSE ST	2922.54	2922.16	3E	0.31	2922.78	2922.0	CHECK	Yes
52	COPINSAY AVE	2910.42	2910.04	6	0.56	2911.16	2916.7	OK	No
53	COPINSAY AVE	2910.42	2910.04	6	0.56	2911.16	2915.8	OK	No

70	COPINSAY AVE	2910.42	2910.04	6	0.56	2911.16	2908.2	CHECK	Yes
71	COPINSAY AVE	2910.42	2910.04	6	0.56	2911.16	2909.0	CHECK	Yes
82	SCALPAY ST	2909.19	2908.81	6H	0.42	2909.65	2914.1	OK	No
83	SCALPAY ST	2913.88	2913.50	6H	0.42	2914.34	2914.3	CHECK	Yes
220	SCALPAY ST	2927.28	2926.90	3G	0.34	2927.58	2931.8	OK	No
239	KIMBERTON AVE	2961.35	2960.85	1	0.39	2961.63	2964.2	OK	No
240	KIMBERTON AVE	2961.35	2960.85	1	0.39	2961.63	2963.8	OK	No
252	KILT ROCK AVE	2959.21	2958.71	1	0.39	2959.49	2959.4	CHECK	Yes
253	KILT ROCK AVE	2959.21	2958.71	1	0.39	2959.49	2961.0	OK	No
266	KILT ROCK AVE	2958.05	2958.05	1	0.39	2958.83	2960.5	OK	No
267	KILT ROCK AVE	2958.05	2958.05	1	0.39	2958.83	2959.4	OK	No
280	GIENBRITTLE AVE	2955.91	2955.41	1	0.39	2956.19	2956.1	CHECK	Yes
281	GIENBRITTLE AVE	2955.91	2955.41	1	0.39	2956.19	2957.7	OK	No
294	GIENBRITTLE AVE	2954.75	2954.25	1	0.39	2955.03	2957.1	OK	No
295	GIENBRITTLE AVE	2954.75	2954.25	1	0.39	2955.03	2956.1	OK	No
308	JELLISON AVE	2950.75	2950.25	1	0.39	2951.03	2951.0	CHECK	Yes
309	JELLISON AVE	2950.75	2950.25	1	0.39	2951.03	2952.5	OK	No
322	JELLISON AVE	2949.61	2949.11	1	0.39	2949.89	2952.0	OK	No
323	JELLISON AVE	2949.57	2949.07	1	0.39	2949.85	2951.0	OK	No
335	ARONSON AVE	2947.41	2946.91	1	0.39	2947.69	2947.7	OK	No
336	ARONSON AVE	2947.48	2946.98	1	0.39	2947.76	2949.2	OK	No
343	ARONSON AVE	2946.80	2946.42	1B	0.39	2947.20	2948.0	OK	No
350	ARONSON AVE	2946.22	2945.84	2	0.41	2946.66	2947.6	OK	No
1	SKYE CANYON PARK	2913.00	2912.62	7*	0.35	2913.32	2915.6	OK	No
83	SKYE CANYON PARK	2918.46	2918.08	7*	0.35	2918.78	2914.3	CHECK	Yes
84	SKYE CANYON PARK	2920.24	2919.86	7*	0.35	2920.56	2916.6	CHECK	Yes
85	SKYE CANYON PARK	2923.09	2922.71	7*	0.35	2923.41	2919.2	CHECK	Yes
86	SKYE CANYON PARK	2924.16	2923.78	7*	0.35	2924.48	2922.1	CHECK	Yes
87	SKYE CANYON PARK	2924.96	2924.58	7*	0.35	2925.28	2925.0	CHECK	Yes
88	SKYE CANYON PARK	2927.46	2927.08	7*	0.35	2927.78	2930.9	OK	No
89	SKYE CANYON PARK	2928.95	2928.57	7*	0.35	2929.27	2932.6	OK	No
90	SKYE CANYON PARK	2929.87	2929.49	7*	0.35	2930.19	2934.5	OK	No
91	SKYE CANYON PARK	2930.79	2930.41	7*	0.35	2931.11	2937.6	OK	No
92	SKYE CANYON PARK	2932.33	2931.95	7*	0.35	2932.65	2939.5	OK	No
93	SKYE CANYON PARK	2933.87	2933.49	7*	0.35	2934.19	2941.3	OK	No
94	SKYE CANYON PARK	2935.89	2935.51	7*	0.35	2936.21	2943.1	OK	No
95	SKYE CANYON PARK	2938.14	2937.76	7*	0.35	2938.46	2945.1	OK	No
96	SKYE CANYON PARK	2940.42	2940.04	7*	0.35	2940.74	2947.0	OK	No
97	SKYE CANYON PARK	2941.49	2941.11	7*	0.35	2941.81	2948.9	OK	No
98	SKYE CANYON PARK	2942.71	2942.33	7*	0.35	2943.03	2950.8	OK	No

99	SKYE CANYON PARK	2943.10	2942.72	7*	0.35	2943.42	2952.7	OK	No
100	SKYE CANYON PARK	2954.00	2953.62	7*	0.35	2954.32	2958.9	OK	No
101	SKYE CANYON PARK	2956.39	2956.01	7*	0.35	2956.71	2960.2	OK	No
221	SKYE CANYON PARK	2957.00	2956.62	7*	0.35	2957.32	2964.8	OK	No
222	SKYE CANYON PARK	2958.00	2957.62	7*	0.35	2958.32	2964.8	OK	No
223	SKYE CANYON PARK	2959.00	2958.62	7*	0.35	2959.32	2964.8	OK	No
224	SKYE CANYON PARK	2960.96	2960.58	7*	0.35	2961.28	2964.8	OK	No
225	SKYE CANYON PARK	2965.23	2964.85	7*	0.35	2965.55	2964.4	CHECK	Yes
226	SKYE CANYON PARK	2967.00	2966.62	7*	0.35	2967.32	2964.4	CHECK	Yes
227	SKYE CANYON PARK	2967.50	2967.12	7*	0.35	2967.82	2964.4	CHECK	Yes
228	SKYE CANYON PARK	2968.54	2968.16	7*	0.35	2968.86	2964.4	CHECK	Yes
229	SKYE CANYON PARK	2969.24	2968.86	7*	0.35	2969.56	2965.0	CHECK	Yes
230	SKYE CANYON PARK	2969.77	2969.39	7*	0.35	2970.09	2965.0	CHECK	Yes
231	SKYE CANYON PARK	2970.30	2969.92	7*	0.35	2970.62	2965.0	CHECK	Yes
232	SKYE CANYON PARK	2971.13	2970.75	7*	0.35	2971.45	2965.0	CHECK	Yes
232	SHAUMBER RD	2970.11	2969.73	2*	0.36	2970.45	2965.0	CHECK	Yes
233	SHAUMBER RD	2968.00	2967.62	2*	0.36	2968.34	2965.0	CHECK	Yes
259	SHAUMBER RD	2966.11	2965.73	2*	0.36	2966.45	2961.5	CHECK	Yes
260	SHAUMBER RD	2965.11	2964.73	2*	0.36	2965.45	2961.3	CHECK	Yes
287	SHAUMBER RD	2963.00	2962.62	2*	0.36	2963.34	2958.2	CHECK	Yes
288	SHAUMBER RD	2961.00	2960.62	2*	0.36	2961.34	2958.0	CHECK	Yes
315	SHAUMBER RD	2958.11	2957.73	2*	0.36	2958.45	2953.1	CHECK	Yes
316	SHAUMBER RD	2956.11	2955.73	2*	0.36	2956.45	2952.9	CHECK	Yes
342	SHAUMBER RD	2954.11	2953.73	2*	0.36	2954.45	2949.8	CHECK	Yes

1: High TC is the elevation at the high side of the adjacent perimeter street

2: 0.38-ft is subtracted from the High TC to obain the High FL elevation

3: Flow depth is the normal depth in adjacent perimeter street

4: Min FF is the High FL plus twice the depth of flow.

Finished Floor Check - Emergency Overflow							
Lot Number	High TC[1]	High FL[2]	Section	Flow Depth[3]	Min FF[4]	Design FF	Check
23	2902.56	2902.18	EO	0.79	2902.97	2904.70	OK
22	2902.91	2902.53	EO	0.79	2903.32	2905.20	OK

1: High TC is the elevation at the high side of the adjacent perimeter street

2: 0.38-ft is subtracted from the High TC to obain the High FL elevation

2: Flow depth is the normal depth of the emergency overflow in adjacent street.

3: Min FF is the High FL plus the depth of emergency overflow.

Specific Energy Check							
Lot Number	High TC[1]	High FL[2]	Section	Specific Energy[3]	Min FF[4]	Design FF	Check
215	2924.19	2923.81	3B	0.83	2924.64	2925.10	OK
216	2924.19	2923.81	3B	0.83	2924.64	2925.80	OK
217	2924.19	2923.81	3B	0.83	2924.64	2927.20	OK
211	2918.1	2917.72	3B	0.83	2918.55	2923.70	OK
212	2918.46	2918.08	3F	0.73	2918.81	2924.00	OK
213	2918.46	2918.08	3F	0.73	2918.81	2924.40	OK
207	2916.66	2916.28	3E	0.70	2916.98	2922.20	OK
208	2916.66	2916.28	3E	0.70	2916.98	2922.60	OK
206	2916.66	2916.28	3E	0.70	2916.98	2921.90	OK
183	2914.52	2914.14	7	0.74	2914.88	2921.10	OK
184	2914.52	2914.14	7	0.74	2914.88	2920.10	OK
185	2914.52	2914.14	7	0.74	2914.88	2919.30	OK
31	2908.19	2907.81	5C	0.53	2908.34	2914.60	OK
30	2906.94	2906.56	5C	0.53	2907.09	2912.80	OK
29	2905.95	2905.57	5C	0.53	2906.10	2911.60	OK
3	2906.81	2906.43	3G	0.67	2907.10	2913.30	OK

4	2906.81	2906.43	3G	0.67	2907.10	2912.60	OK
12	2902.84	2902.46	6	0.72	2903.18	2909.00	OK
13	2902.84	2902.46	6	0.72	2903.18	2908.60	OK
14	2902.48	2902.10	6	0.72	2902.82	2908.30	OK
24	2898.76	2898.38	6	0.72	2899.10	2904.50	OK
25	2899.66	2899.28	6	0.72	2900.00	2905.40	OK
26	2900.9	2900.52	6	0.72	2901.24	2906.60	OK

1: High TC is the elevation at the high side of the adjacent perimeter street

2: 0.38-ft is subtracted from the High TC to obain the High FL elevation

3: Specific energy depth is taken from FlowMaster calculation for street directing flow toward lot.

4: Min FF is the High FL plus the specific energy depth.

APPENDIX G

CD of Electronic Files & Revised Improvement Plans