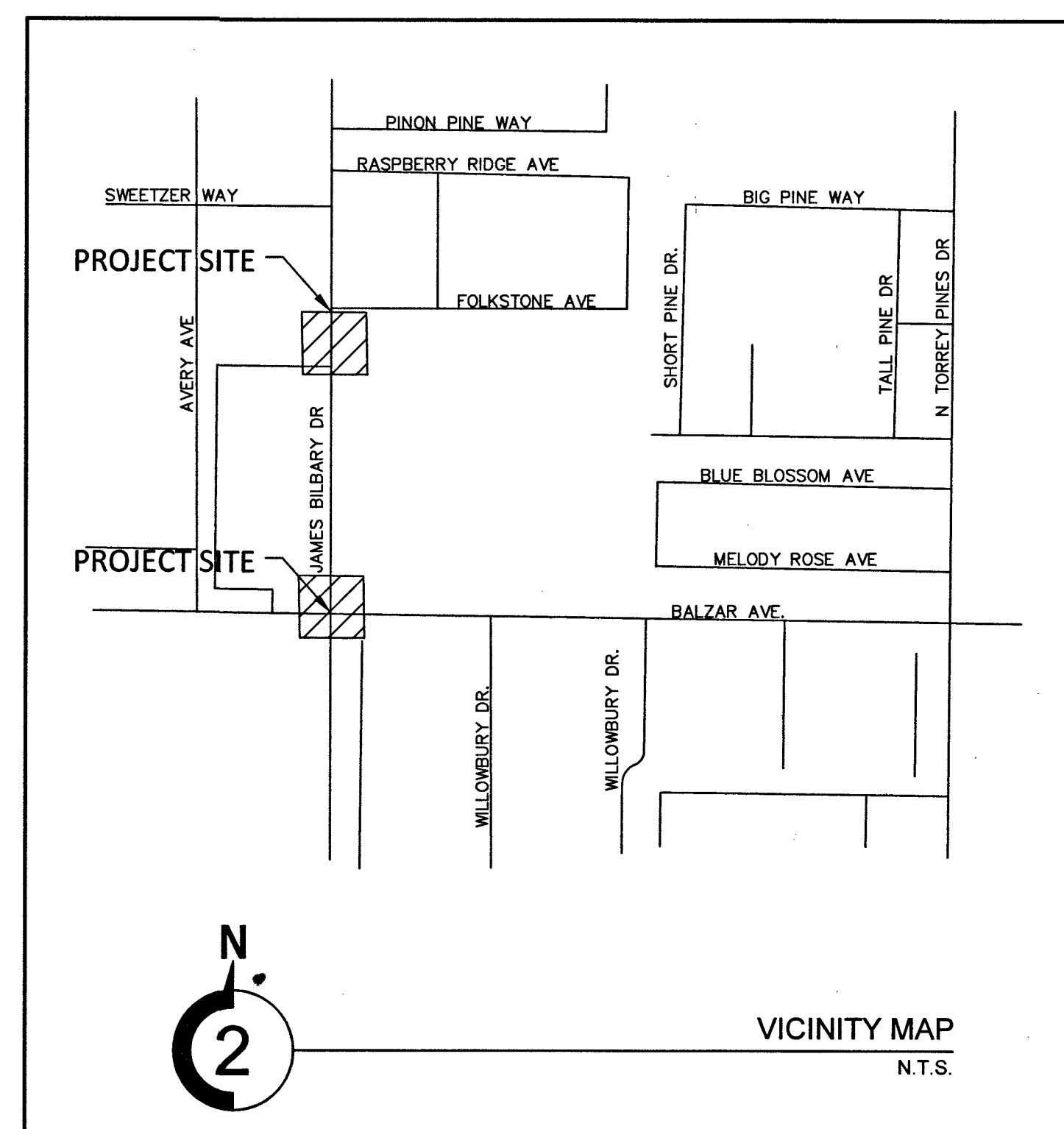
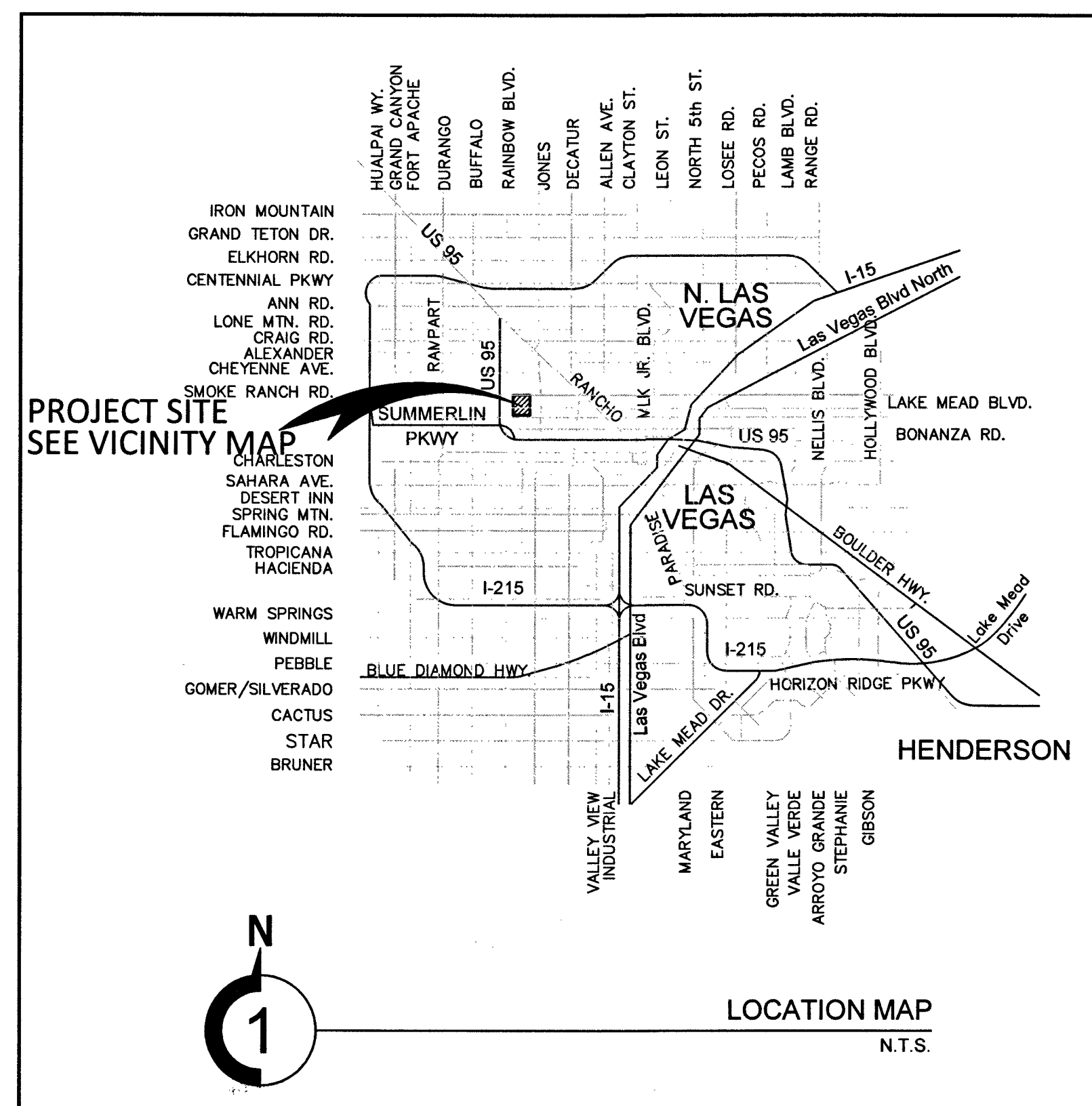


SHEET NO.		SHEET TITLE
1	C1.01	COVER AND APPROVAL SHEET
2	C1.02	GENERAL NOTES
3	C3.01	HORIZONTAL CONTROL PLAN
4	C4.01	GRADING PLAN

OWNER
SCHOOL BOARD OF TRUSTEES
CLARK COUNTY SCHOOL DISTRICT
4170 MCLEOD DR.
LAS VEGAS, NV 89121
CONTACT: STEVE DREWS
PHONE: (702) 799-8710 EXT. 5226

DEVELOPER
CLARK COUNTY SCHOOL DISTRICT
4170 MCLEOD DR.
LAS VEGAS, NV 89121
CONTACT: STEVE DREWS
PHONE: (702) 799-8710 EXT. 5226

PT NE4 NW4 SEC 23 20 60 GEOID: PT NE4 NW4 SEC 23 20 60.

[illegible]

NORTH 89°07'18" WEST, BEING THE BEARING OF THE CENTERLINE OF BALZAR AVENUE AND THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 23, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN IN BOOK 50 OF PLATS. AT PAGE 80, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

CITY OF LAS VEGAS BENCHMARK "3C21 31NNE6 2003", BEING A RM
IN THE TOP OF CURB, NORTH SIDE OF SMOKE RANCH @ JAMES
BILBRAY.

ELEVATION: 2309.51 (US SURVEY FEET)
703.94 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS
CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND/OR DEDICATED EASEMENTS. THIS
DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT
DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS. (CROSS
SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARD." THE ENGINEER SHALL
RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATIONS FROM STANDARDS"
IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS CLARK COUNTY
AREA NEVADA.

ALLEN PAVELKA, PE #9029
ACTING CITY ENGINEER

APPROVED FOR CONSTRUCTION



LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERV

PROJECT NO. 135376 FIRST APPROVED DATE: 2/6/19

LVVWD APPROVED FIRE FLOW N/A GPM AT 20 PSI RESIDUAL
SHEETS: C1.01, C1.02, AND C4.01

CITY OF LAS VEGAS PLANNING DEPARTMENT

THIS PLAN CONFORMS TO THE APPLICABLE STANDARDS
OF THE PLANNING DEPARTMENT.

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.

N/A

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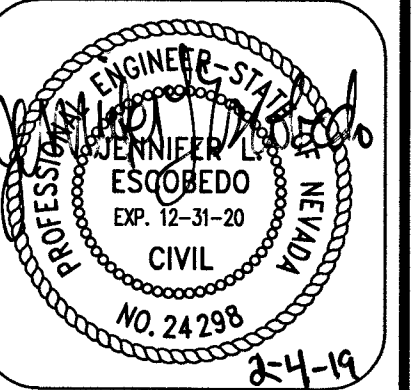
"THE AFFIXED CENTURYLINK CORPORATION APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND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

N/A
CENTRAL TELEPHONE CO. D/B/A CENTURY LINK

	N/A
COX COMMUNICATIONS, LAS VEGAS, INC.	

	N/A
SOUTHWEST GAS CORPORATION	

**COLLINS
ENGINEERS[®]**
33130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com



WING FONG ELEMENTARY SCHOOL
APN: 138-23-101-001
COVER AND APPROVAL SHEET
 JAMES BILBRAY DRIVE
 CITY OF LAS VEGAS, NEVADA

[illegible]

**COLLINS
ENGINEERS^{PC}**
3131 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com

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 EDITION, "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST EDITION, "NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS" FOR WORK IN THE SUMMERLINE AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCE APPLICABLE, EXCEPT AS NOTED HEREON.
2. THE EXISTING UTILITIES AND LOCATIONS OF ALL 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 GLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. IF ANY EXISTING UTILITIES ARE FOUND TO BE DIFFERENT FROM THE LOCATION OF SUCH 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 PREVENT DAMAGE TO SAME. EXTREME CARE SHALL BE USED WITH EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES OR 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 BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STREET 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 OPERATION SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. ALL CONCRETE SHALL BE 3000 PSI STRENGTH, TYPE I-III, 4" MINIMUM SLAB THICKNESS, 8" MINIMUM CURB & 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. ALL CUREMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT SLOWWALK RIMPS AND MANHOLE COVERS.
9. ALL CURB, GUTTER, FLOORING IS TO BE VERTICAL TO THE CITY OF LAS VEGAS SHALL BE REMOVED AN

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CLV PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ALL NEWLY DESIGNED STORM DRAINAGE TO BE CONTROLLED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RISERS, AND SEWER CATCH BASINS, ETC. TO FINISH GRADE AS INDICATED WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS OF THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS UTILITY LOCATORS, LOCATING DEVICES SHALL BE PROVIDED TO THE CITY ENGINEER FOR OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAINAGE, THE CONTRACTOR IS REQUIRED TO SUBMIT A CLV OPEN TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRENCH STRUCTURES. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE RIGHT OF WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

COLLINS ENGINEERS INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

CALL BEFORE YOU DIG
AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

CALL BEFORE YOU DIG
AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEMS. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD POWER LINES. IT'S COSTLY.

Call 811
1-800-227-2600

CALL 1-702-432-5300
FIRE DEPARTMENT - 911

1-702-227-2925

THE PROJECT SITE LIES WITHIN UNSHADED FLOOD ZONE "X". PER FIMA FIRM PANEL 32003C2155F REVISED NOVEMBER 16, 2011. PER FEMA, UNSHADED FLOOD ZONE "X" IS AN AREA OUTSIDE THE 500-YEAR FLOODPLAIN.

11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: (IFC § C102.0)
RESIDENTIAL – 500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
COMMERCIAL – 300 FEET UNSPRINKLERED; 400 FEET 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 MAXIMUM 1,000 FOOT 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 FEET ON AND ALTERNATING BASIS. (IFC § C102.6)
13. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET 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, STREET LIGHT OR ANY OTHER OBSTRUCTION. (IFC § C102.12)
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, 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 FEET, AS MEASURED BY AN APPROVED ROUTE. (IFC § C102.7)
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET. (IFC § 102.6)
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS. SPRINKLER LEAD-INS INSTALLED ON A SINGLE SYSTEM SECTIONAL CONTROL VALVE SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. (IFC § C104)

5. NO LEAD COMPLIANCE NOTE:

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
Project No. 135376 First Approved Date: 2/6/19
LVVWD Approved Fire Flow N/A GPM at 20 PSI Residual

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLY WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623.6.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623.6.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED JUNE 4, 2018 (LD VERSION)

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 ARE OBSERVED OR DETECTED WHEN ENTERING OR EXITING THE CLARK COUNTY PUBLIC RIGHT OF WAY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM DRAIN SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNPREDICTED EROSION POTENTIAL OR IF IT IS DETERMINED THAT THE PROJECT DOES NOT MEET PERFORMANCE STANDARDS SPECIFIED BY THE CITY OF LAS VEGAS AND 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 COMPLETED OR IS PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI000000, 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 CONSTRUCTION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN NECESSARILY TO REFLECT ANY CHANGES TO THE CONSTRUCTION ACTIVITY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI000000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORM WATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHEN THE SEDIMENT IS OBSERVED OR DETECTED TO BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

AC	ASPHALTIC CONCRETE	N/A	NOT APPLICABLE
AC	ASBESTOS CEMENT PIPE	NAP	NOT A PART
ANS	AMERICAN NATIONAL STANDARDS INSTITUTE	NDOT	NEVADA DEPT OF TRANSPORTATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	NFTA	NATIONAL PROTECTIONS ASSOCIATION
AV	AVENUE	NT	NOT IN CONTRACT
AWWA	AMERICAN WATER WORKS ASSOCIATION	NTS	NOT TO SCALE
B	BACK	ON CENTER	ON CENTER
BCR	BACK OF CURB RADIUS	PB	PULL BOX
BNRD	BOUNDARY LINE	PC	POINT OF CURVE
BLDD	BUILDING	PCC	POINT OF SPOURDUNG CURVE
BLVD	BULEVARD	PI	POINT OF INTERSECTION
BO	BLOW OFF ASSEMBLY	PKWY	PARKWAY
BOP	BOTTOM OF PIPE	PL	PROPERTY LINE
BOT	BOTTOM	PP	POWER POLE
BVC	BEGINNING OF VERTICAL CURVE	PT	POINT OF TANGENCY
BWV	BACK WATER VALVE	PNT	POINT
CCUSD	CLARK COUNTY AREA	PS	POUNDS PER SQUARE INCH
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	PRC	POINT OF REVERSE CURVE
C&G	CURB AND GUTTER	PRV	PROPOSED
CATV	CABLE TELEVISION	PRV	PROPOSED REGULATING VALVE
CAV	CAST IRON PIPE	PRVT	PRIVATE
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE PIPE
CL	CLEAR	PW	POINT OF VERTICAL INTERSECTION
CL	CLEAR	PWMT	PAVEMENT
CMU	CONCRETE MASONRY UNIT	Q	RATE OF FLOW
CMP	CORRUGATED METAL PIPE	QTY	QUANTITY
CONC	CONCRETE	R	RADIUS
CONO	CONDUIT	RC	REINFORCED CONCRETE
CU FT	CUBIC FOOT	RCB	REINFORCED CONCRETE BOX
CU	CUBIC YARD	RCF	REINFORCED CONCRETE PIPE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	RCP	REDUCED PRESSURE PRINCIPLE
DCA	DOUBLE CHECK VALVE ASSEMBLY	RR	RAILROAD
DEM	DEMOLITION	ASSEMBLY	ASSEMBLY
DI	DROP INLET	R/W	RIGHT OF WAY
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
DWR	DRAINAGE	SO FT	SQ FT, SQUARE FOOT (FEET)
EC	END OF CURVE	SO YD	SQ YD, SQUARE YARD
ECV	END OF CURB RETURN	SS	SANITARY SEWER
EG	ENERGY GRADE LINE	ST	STREET
EP	END OF VERTICAL CURVE	STA	STATION
EPL	EDGE OF PAVEMENT	STL	STREET LIGHT
EX	EXISTING	SW	SIDEWALK/SOUTHWEST
FC	FIRE DEPARTMENT CONNECTION	T	TELEPHONE
FD	FINISHED FLOOR	TC	TOP OF CURB
FI	FINISHED GRADE	TEMPORARY	TEMPORARY
FI	FIRE HYDRANT	TEL	TELEPHONE
FL	FLOWLINE	TMH	TOP OF MANHOLE
FMCT	FLOW METER COMPOUND TORRENT	TF	TOP OF FOOTING
FT	FOOT OF CURB	TO	TOP OF GRADE
FT	FOOT OR FEET	TOP/TP	TOP OF PIPE
G	GAZ	TO	TOP OF WALL
GB	GRADE BREAK	TS	TRAFFIC SIGNAL
GP	GRADE POINT	TPW	TYPICAL
HGL	HYDRAULIC GRADE LINE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS
INV	INVERT	UG	UNDERGROUND
LF	LINEAR FOOT	UTL	UTILITIES
LMR	LETTER OF MAP REVISION	VC	VERTICAL CURVE
LP	LOW POINT	VCP	VITRIFIED CLAY PIPE
LS	LANDSCAPE	VG	VALLEY GUTTER
LYMND	LAS VEGAS VALLEY WATER DISTRICT	W	WATER
ME	MATCH EXISTING	WTR	WATER
MH	MANHOLE	WY	WATER METER
MIN	MINIMUM	YD	YARD

ITEM DESCRIPTION	QUANTITY	UNIT
1. TYPE II GRAVEL BASE	5	CY
2. 3" ASPHALTIC CONCRETE PAVING	46	SY
3. CURB AND GUTTER (TYPE "L"&"A")	20	LF
4. SIDEWALK 4"	580	SF
5. SIDEWALK RAMP	6	EA
6. PAVEMENT STRIPING COLLECTOR	840	LF
7. PAVEMENT STRIPING ARTERIAL	44	LF

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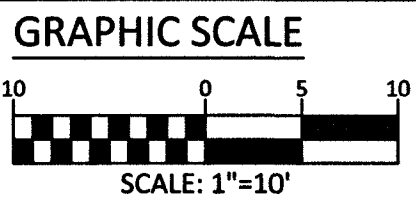
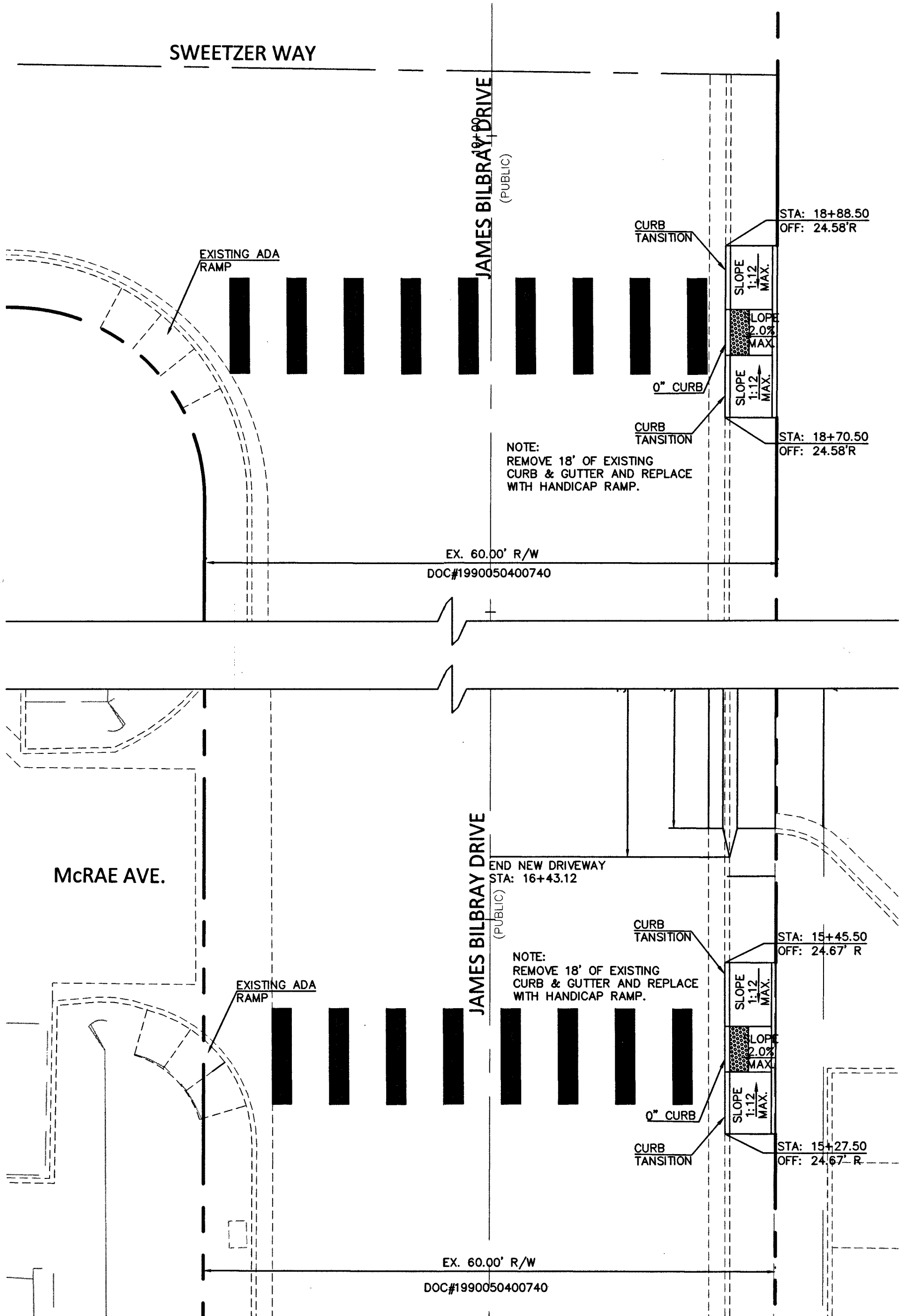
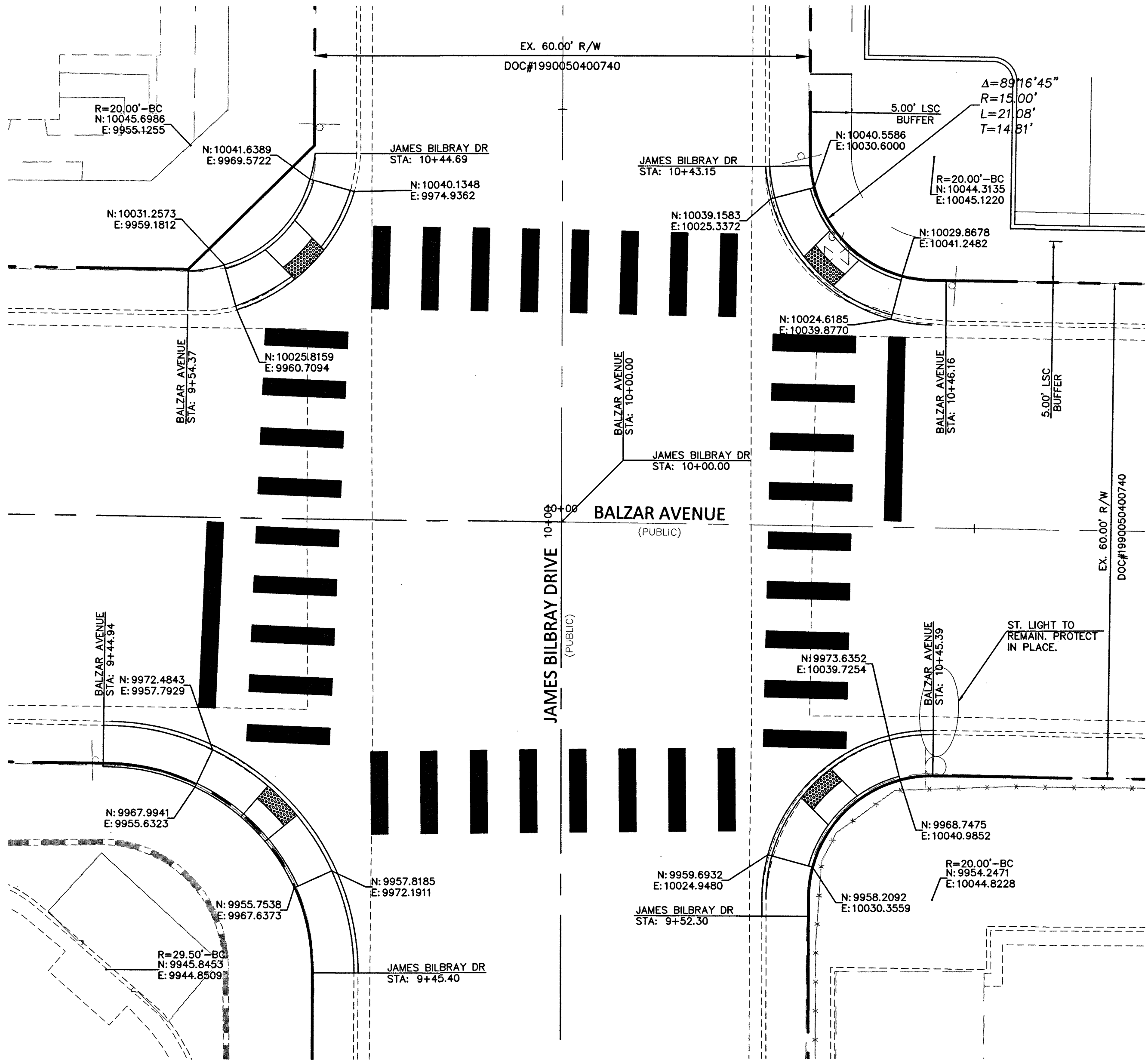
**LILLY & WING FONG ELEMENTARY
SCHOOL**
APN: 138-23-101-001
GENERAL NOTES
JAMES BILBRAY DRIVE
CITY OF LAS VEGAS, NEVADA

[illegible]

APN: 138-23-101-001

GENERAL NOTES

JAMES BILBRAY DRIVE
CITY OF LAS VEGAS, NEVADA



BASIS OF BEARING

NORTH 89°07'18\"/>

BENCHMARK

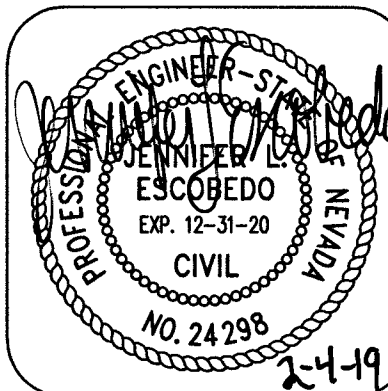
CITY OF LAS VEGAS BENCHMARK \"3C21 31NNE6 2003\", BEING A RM IN THE TOP OF CURB, NORTH SIDE OF SMOKE RANCH @ JAMES BILBRAY.

ELEVATION: 2308.51 (US SURVEY FEET)
703.94 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

KEY MAP
NTS

COLLINS ENGINEERS
3130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com



LILLY & WING FONG ELEMENTARY SCHOOL
APN: 138-23-101-001
HORIZONTAL CONTROL PLAN
JAMES BILBRAY DRIVE
CITY OF LAS VEGAS, NEVADA

NO.	DATE	DESIGN BY	DESCRIPTION

CEI PROJECT: 10482
DESIGN BY: JMSR
DRAWN BY: JMSR
CHECKED BY: A. PINEDA

DATE: 07/25/18
SCALE: 1\"/>

SHEET NUMBER
C3.01
SHEET 3 OF 4

CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

Call 811
1-800-227-2600

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEMS. IT'S COSTLY.

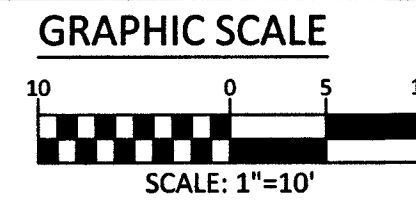
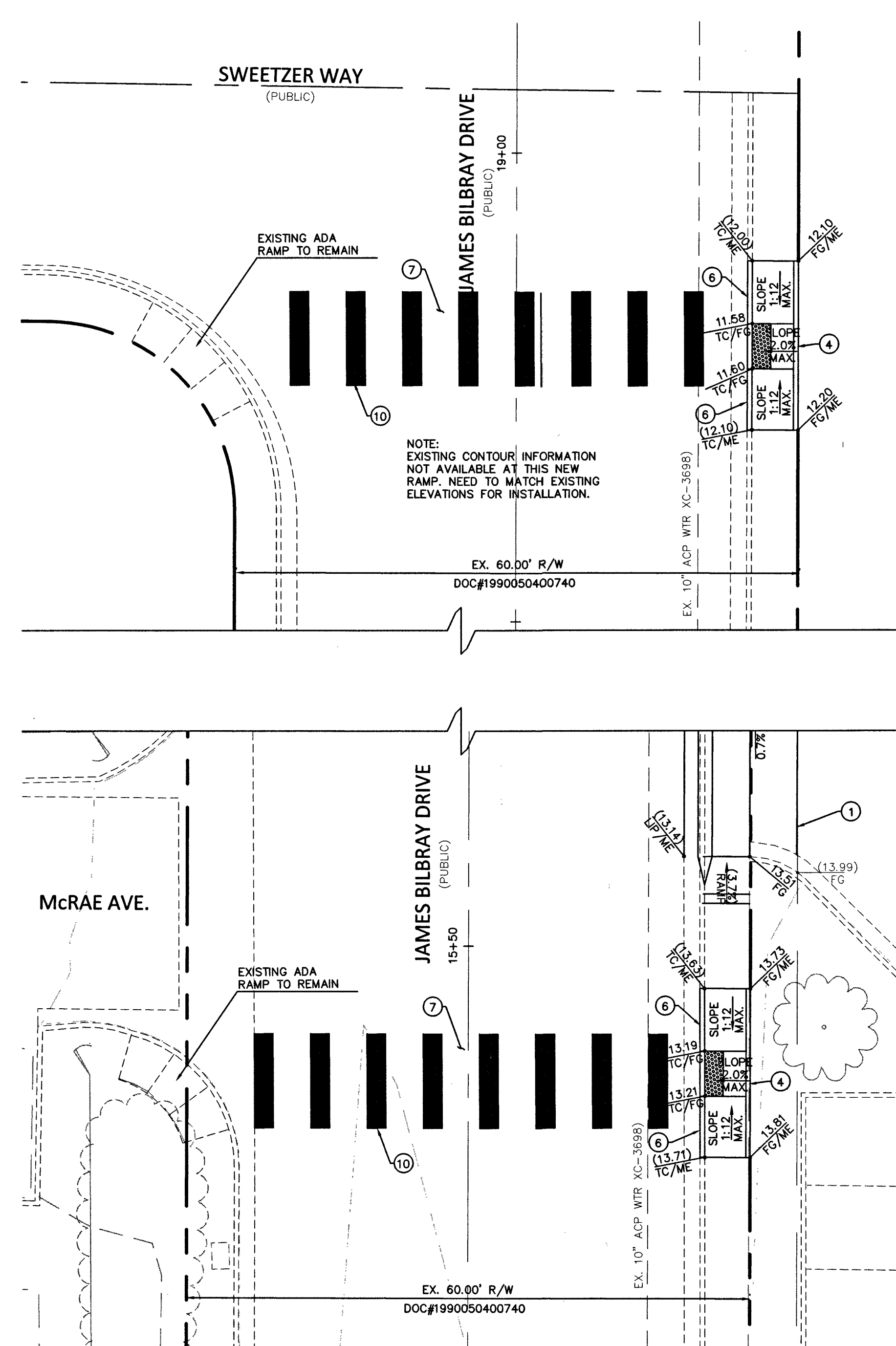
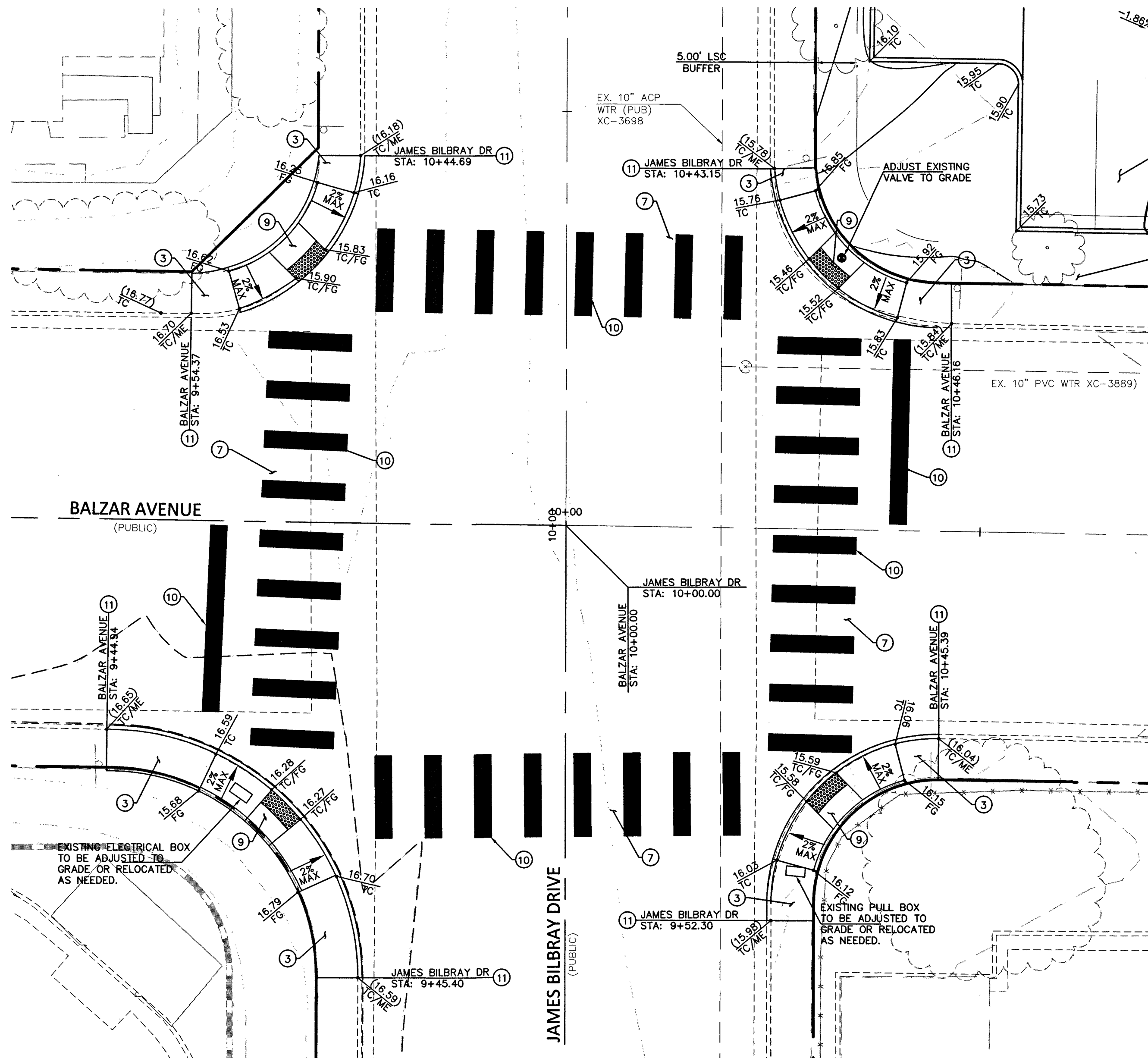
CALL BEFORE YOU DO UNDERGROUND WORK
CALL 1-702-455-7511
CLARK COUNTY PUBLIC ENGINEERING AND SURVEYING
CALL 1-702-432-5300
TRAFFIC AND SIGNAL SYSTEMS

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD WORK
CALL 1-702-227-2929

COLLINS ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

EXISTING	PROPOSED	EXISTING	PROPOSED
(0.00%)	0.00% SLOPE	AC PAVEMENT	PL-RIGHT-OF-WAY
(0.00%)	0.00% ELEVATION TAG	6" TYPE "A" CURB	PL-ADJACENT CENTERLINE
XX	STORM MANHOLE	24" TYPE "L" CURB & GUTTER	EASEMENT LINE
⊙	DROP INLET	30" ROLL CURB	FLOW LINE
---	CONTOUR		SAWTOOTH LINE
---	RETAINING WALL		
---	SCREEN WALL		



BASIS OF BEARING
NORTH 89°07'18" WEST, BEING THE BEARING OF THE CENTERLINE OF BALZAR AVENUE AND THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 23, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN IN BOOK 50 OF PLATS, AT PAGE 80, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK "3C21 3INNES 2003", BEING A RM IN THE TOP OF CURB, NORTH SIDE OF SMOKE RANCH @ JAMES BILBRAY.

ELEVATION: 2309.51 (US SURVEY FEET)
703.94 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

CONSTRUCTION NOTES

NO.	ITEM	USDOCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
1	NOT USED	
2	NOT USED	
3	CONSTRUCT 4" CONCRETE SIDEWALK PER CCAUD No. 234.	
4	CONSTRUCT MODIFIED HANDICAP RAMP	
5	NOT USED	
6	CONSTRUCT TRANSITION FROM 0" CURB TO 6" CURB PER DETAIL 'K' THIS SHEET	
7	REMOVE AND REPLACE EXISTING ASPHALT AS NECESSARY FOR ADDITION OF CROSSWALK STRIPING.	
8	NOT USED	
9	REMOVE EXISTING HANDICAP RAMP AND REPLACE WITH NEW RAMP PER USDOCA NO. 235	
10	INSTALL CROSSWALK MARKINGS (TYPE I) PER USDOCA NO. 254.	
11	REMOVE AND REPLACE SPANDRELS ONLY IF NECESSARY	

NOTE:
PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

GENERAL NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE A NOTICE OF INTENT/REQUEST TO BE INCLUDED IN THE STORM WATER GENERAL PERMIT, AND SUBMIT THE ASSOCIATED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY FEDERAL, AND MONITORED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION.

NOTE:
PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

NOTE TO CONTRACTOR:
CONTRACTOR SHALL PROVIDE EROSION CONTROL IN ALL LANDSCAPE AREAS WHERE ROOF DRAINS DISCHARGE TO GRADE UNLESS OTHERWISE NOTED HEREON.

FLOOD ZONE NOTE:
THE PROJECT SITE LIES WITHIN ZONE X AS PER FEMA FIRM PANEL 32003C21551 DATED NOVEMBER 16, 2011. PROPERTY IS LOCATED WITHIN UNSHADED FLOOD ZONE "X". UNSHADED FLOOD ZONE "X" IS DESCRIBED BY FEMA AS AN AREA TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135376 FIRST APPROVED DATE: 2/1/19

CALL BEFORE YOU DIG
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

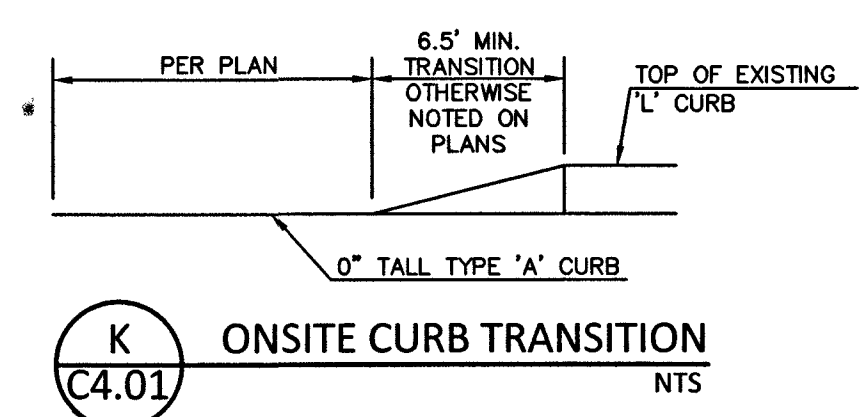
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CALL BEFORE YOU DO UNDERGROUND WORK
AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

CALL 1-800-227-2600

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EXISTING	PROPOSED	EXISTING	PROPOSED
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(0.00%) ELEVATION TAG	(0.00%) ELEVATION TAG	6" TYPE "A" CURB	6" TYPE "A" CURB
XX STORM MANHOLE	XX STORM MANHOLE	24" TYPE "L" CURB & GUTTER	24" TYPE "L" CURB & GUTTER
XX DROP INLET	XX DROP INLET	30" ROLL CURB	30" ROLL CURB
XX CONTOUR	XX CONTOUR	PL-RIGHT-OF-WAY	PL-RIGHT-OF-WAY
XX RETAINING WALL	XX RETAINING WALL	PL-ADJACENT CENTERLINE	PL-ADJACENT CENTERLINE
XX SCREEN WALL	XX SCREEN WALL	EASEMENT LINE	EASEMENT LINE
		FLOW LINE	FLOW LINE
		SAWCUT LINE	SAWCUT LINE
		ADA ACCESS	ADA ACCESS



COLLINS ENGINEERS
3130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com



LILLY & WING FONG ELEMENTARY SCHOOL
APN: 138-23-101-001
GRADING PLAN 1
JAMES BILBRAY DRIVE
CITY OF LAS VEGAS, NEVADA

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