

IMPROVEMENT PLANS FOR SUNSTONE PHASE 1 SKYE CANYON PARK DRIVE



CITY ENGINEER—ALLEN E. PAVELKA PE #9029 DATE _____

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED OF RIGHT-OF-WAY, AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIALLY LISTED UNDER DEVIATIONS FROM STANDARDS. 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.

CITY OF LAS VEGAS PLANNING DEPARTMENT DATE

THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING DEPARTMENT.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. XXXXXX FIRST APPROVE
SHEETS:

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

LAS VEGAS FIRE AND RESCUE DATE:

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.

CENTRAL TELEPHONE CO. DBA CENTURYLINK DATE

THE AFFIXED CENTRAL TELEPHONE CO, DBA 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 STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION DATE

COX COMMUNICATIONS LAS VEGAS, INC. DATE

Sheet List Table		
SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE
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2	C-2	GENERAL NOTES
3	C-3	ABBREVIATIONS, KEY MAP, LEGEND AND QUANTITIES
4	P-1	PLAN AND PROFILE - "SCP" 11+00.00 TO "SCP" 19+00.00
5	P-2	PLAN AND PROFILE - "SCP" 19+00.00 TO "SCP" 25+00.00
6	P-3	PLAN AND PROFILE - "SCP" 25+00.00 TO "SCP" 33+00.00
7	P-4	PLAN AND PROFILE - "SCP" 33+00.00 TO "SCP" 38+00.00
8	P-5	PLAN AND PROFILE - "SCP" 38+00.00 TO "SCP" 42+00.00
9	P-6	STORM DRAIN LATERAL DETAILS
10	D-1	DETAIL SHEET 1

MONUMENT ID: USDA (1934) 19

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

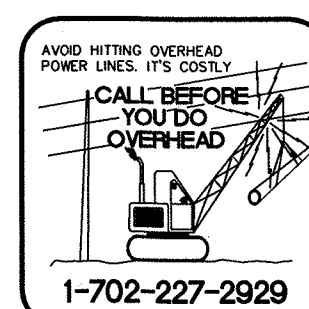
ELEVATION = 2817.61 FEET, 858.810 METERS
NAVD 88 DATUM

PER THE CITY OF LAS VEGAS BENCHMARK BOOK -
2008 ADJUSTMENT (UPDATED 05/24/2010)

NORTH 00°01'50" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE1/4) OF SECTION 6, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 151, PAGE 14 OF SURVEYS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

EASTLAND COMPANY, LLC
9275 RUSSELL ROAD SUITE
400 LAS VEGAS, NV 89148
PH (702) 821-4808

SLATER HANIFAN GROUP
a WESTWOOD TEAM
5740 S. ARVILLE STREET #216
LAS VEGAS, NV 89118
(702) 284-5300



NOTE: PROJECT PLAN APPROVAL CONTINGENT ON

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SUNSTONE PHASE 1 XXXXX #XXXXX
SUNSTONE PHASE 1 XXXXX #XXXXX
SUNSTONE PHASE 1 XXXXX #XXXXX
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PLAN APPROVAL

S-I-G
SLATER
HANIFAN
GROUP
a Westwood team

5740 S. ARVILLE STREET #216 LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

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CITY OF LAS VEGAS	
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EASTLAND COMPANY, LLC
SUNSTONE PHASE 1
SKYE CANYON PARK DRIVE
COVER SHEET

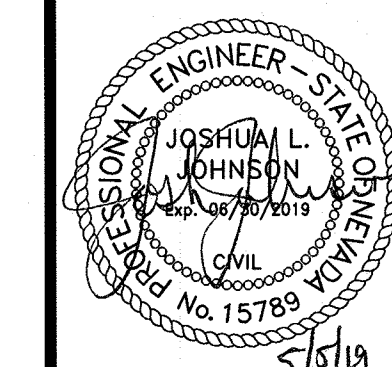
DATE: 05/01/19

DRAFTER: SB/JR

DESIGNER: BC

CHECKED: JJ

PROJECT NO.
EST1908-000



C-1

SHEET 1 OF 9

F:\est1908-000 sunstone skye canyon park\dwg\improv\est1908-000 cvr.dwg 5/4/2019 9:48 PM Brian Chapman

ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS ELECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE LATEST EDITIONS OF THE SPECIFICATIONS AND STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES TO THE APPROVAL OF THE CITY ENGINEER.

CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

R PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE III.

ALL STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY FEET REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

IN ORDER TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER, CONNECTIONS TO OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" SHALL BE ON LINES TWELVE INCHES OR LARGER.

BE PROTECTED IN ACCORDANCE WITH LIVNO STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR AN EIGHTEN INCH (18") UNDER A WATER MAIN.

INSTALL SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF CONTRACTORS.

THE CITY WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF AVOIDED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

ED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLIGNS FOR PIPE DEFLECTION AT THE JOINTS.

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 TO PREVENT POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM. THE CONTRACTOR SHALL NOT MEET THE PERFORMANCE STANDARD IN THE USDOCA 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 TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR000000, SECTION II.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 WITH 24 HOURS AFTER ANY SIGNIFICANT RAINFALL EVENTS. 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 NVR 100000, SECTION II.A.12.
5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED. ALL SIGNS SHALL BE MAINTAINED AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE TYPE B SHEETING.

FIRST APPROVED DATE:

REVISÉ 04/15/10

DATE _____

ALL EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED

**SUNSTONE PHASE 1
SKYE CANYON PARK DRIVE
GENERAL NOTES**

SHEET 2 OF 9

TEL 5-4"	EXISTING TELEPHONE CABLE	STREET CENTERLINE
12" SS	EXISTING SANITARY SEWER LINE	EASEMENT LINE
12" W	EXISTING WATER LINE	AEP
18" SD	EXISTING STORM DRAIN LINE	PROPOSED SIGN
ELE UG 1-4"	EXISTING UNDERGROUND ELECTRICAL LINE	CONCRETE SURFACE
OHP	EXISTING OVERHEAD POWER LINE	PLANTMIX BITUMINOUS SURFACE
OHP/TEL	EXISTING OVERHEAD POWER AND TELEPHONE LINE	FLOWLINE
4" PE GAS	EXISTING GAS LINE	SAWCUT LINE
CATV	EXISTING CABLE TELEVISION LINE	CONTOUR LINE
	EXISTING CURB & GUTTER	ELEVATION
	EXISTING RIGHT-OF-WAY LINE	STORM DRAIN MANHOLE
	EXISTING PROPERTY LINE	SANITARY SEWER MANHOLE
X X X	EXISTING CHAIN-LINK FENCE	100 WATT STREET LIGHT
SL	EXISTING STREET LIGHT CONDUIT	250 WATT STREET LIGHT
	EXISTING MANHOLE OR VAULT	FAST ITS CONDUIT
	EXISTING VALVE (GAS OR WATER)	FAST P30 PULLBOX
FH	EXISTING FIRE HYDRANT	FAST TYPE 200 SPLICE VAULT
PP	EXISTING POWER OR TELEPHONE POLE	
	EXISTING PADMOUNTED SERVICE PEDESTAL	
	EXISTING NV ENERGY TRANSFORMER	
	EXISTING SWING GATE	
	EXISTING STREET LIGHT	
	EXISTING ON-SITE LIGHT	

QUANTITIES

[illegible]

QUANTITIES

DESCRIPTION	UNIT	TOTAL QUANTITY
8" SEWER	LF	XXX
SEWER MANHOLE 6 TO 18 FEET	EA	XXX
SEWER MANHOLE > 18'	EA	XXX
8" PVC WATER LATERAL	LF	XXX
8" DIP WATER LATERAL	LF	XXX
12" PVC WATER MAIN	LF	XXX
12" DIP WATER MAIN	LF	XXX
6" GATE VALVE	EA	XXX
8" GATE VALVE	EA	XXX
12" GATE VALVE	EA	XXX
8" 45° BEND	EA	XXX
12" X 8" TEE	EA	XXX
6" 45° BEND	EA	XXX
12" 22.5° BEND	EA	XXX
12" 45° BEND	EA	XXX
8" 90° BEND	EA	XXX
CAP WITH 2" BLOW-OFF ASSEMBLY	EA	XXX
FIRE HYDRANT	EA	XXX
12" X 6" REDUCER	EA	XXX
WATER FOMH	EA	XXX
4" C900 PVC IRRIGATION SLEEVE	LF	XXX
6" C900 PVC IRRIGATION SLEEVE	LF	XXX
P30 PULLBOX – CLV	EA	XXX
TYPE 200 PULL BOX – CLV	EA	XXX
4" INTERCONNECT CONDUIT – CLV	LF	XXX

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

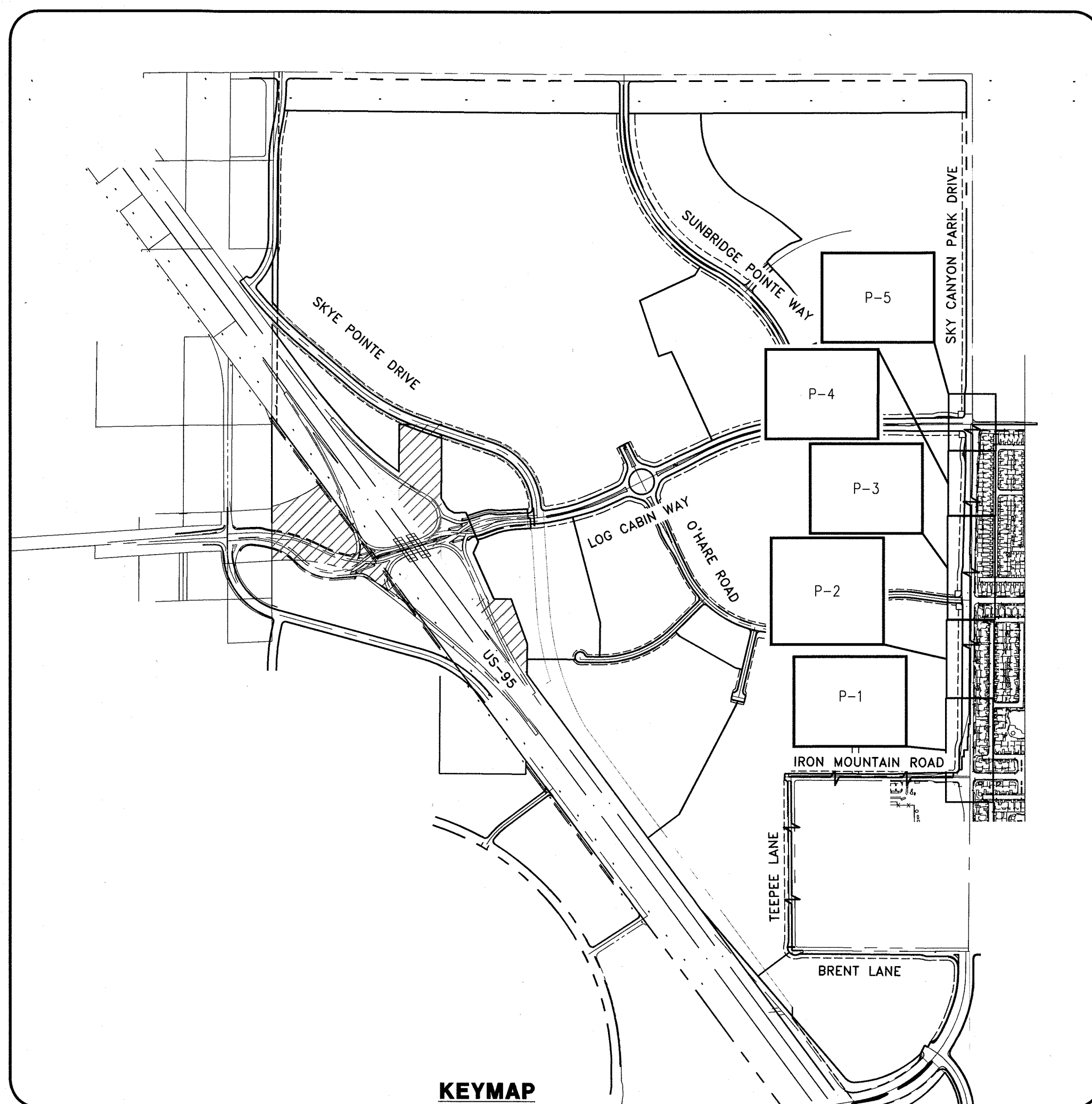
PROJECT NO. XXXXXX FIRST APPROVED DATE: _____

ABBREVIATIONS

ABUT	ABUTMENT	GND	GROUND	R/W	RIGHT-OF-WAY
ALUM	ALUMINUM CAP/ASPHALTIC CONCRETE	AC	AC	R/W	RIGHT-OF-WAY
AEP	AUTHORIZATION TO ENTER PROPERTY	HGL	HYDRAULIC GRADE LINE	T	SOUTH
AP	ANGLE POINT	HORIZ	HORIZONTAL	SCH	SCHEDULE
APN	ASSESSORS PARCEL NUMBER	HWY	HIGHWAY	SD	STORM DRAIN
AVE	AVENUE	INV	INVERT	SDMH	STORM DRAIN MANHOLE
BC	BEGIN CURVE/BRASS CAP/BACK OF CURB	ITS	INTELLIGENT TRANSPORTATION SYSTEM	SECT	SECTION
BCR	BEGIN CURB RETURN	JT	JOINT	SF	SQUARE FOOT/FEET
BLVD	BOULEVARD	LF	LINEAR (LINEAL) FEET	SHLDR	SHOULDER
BM	BENCHMARK	LIP	LIP OF GUTTER	SHT	SHEET
BOT	BOTTOM	LT	LEFT	SIM	SIMILAR
BRG	BEARING	LUM	LUMINAIRE	SIP	SERVICE POINT
BSW	BACK OF SIDEWALK	LWVWD	LAS VEGAS VALLEY WATER DISTRICT	SQA	SPACING
BVCE	BEGIN VERTICAL CURVE ELEVATION	MAX	MAXIMUM	SPQ	SQUARE
BVCS	BEGIN VERTICAL CURVE STATION	MH	MANHOLE	SSS	SANITARY SEWER
CATV	UNDERGROUND CABLE TV	MIN	MINIMUM	SSMH	SANITARY SEWER MANHOLE
CG	CURB AND GUTTER	MLCP	MULTI-LAYERED COMPOSITE PIPE	STA	STATION
CCSD	DESIGN AND CONSTRUCTION STANDARDS	MOD	MODIFY/MODIFIED	STD	STANDARD
	FOR WASTEWATER COLLECTION SYSTEMS	MON	MONTH	ST	STREET
CKT	CIRCUIT	MPH	MILES PER HOUR	STEEL	STEEL
CLR	CLEAR/CLEARANCE	N	NORTH	SL	STREET LIGHT
CLBM	CITY OF LAS VEGAS BENCHMARK	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	STRUCT	STRUCTURE
CLV	CITY OF LAS VEGAS	NO	NUMBER	SW	SIDEWALK
CMU	CONCRETE MASONRY UNIT	NVE	NV ENERGY	SNBORS	SOUTHERN NEVADA BUILDING OFFICIALS
CONC	CONCRETE	NTS	NOT TO SCALE		REGIONAL STANDARDS
C/L	CENTERLINE	OC	ON CENTER	SWG	SOUTHWEST GAS
COB	CENTER OF BOLLARD	OHP	OVERHEAD POWER LINE	T	TELEPHONE/TOP
COL	COLUMN	PAT	PATENT	TAN	TANGENT
CONST	CONSTRUCT/CONSTRUCTION	PB	PULL BOX	TC	TOP OF CURB
COORD	COORDINATE	PBS	PLANTMIX BITUMINOUS SURFACE	TEMP	TEMPORARY
COR	CORNER	PC	POINT OF CURVE, PHOTO CELL	TF	TOP OF FOOTING
CY	CUBIC YARD(S)	PCC	POINT OF COMPOUND CURVE	TG	TOP OF GRADE
Δ	DELTA	PD	PONDING DEPTH	TMH	TOP OF MANHOLE
DB	DIRECT BURY	PE	PROJECT ENGINEER/POLYETHYLENE	TRANS	TRANSITION STRUCTURE
DBL	DOUBLE	PED	PEDESTRIAN	THW	TOP OF HEADWALL
DI	DROP INLET	PG	PROFILE GRADE (FG ON CONTROL LINE)	TRW	TOP OF RETAINING WALL
DIA	DIAMETER	PGL	PROFILE GRADE LINE	TW	TOP OF WALL
DIST	DISTANCE	PH	POTHOLE	TS	TRAFFIC SIGNAL
DR	DRIVE	PI	POINT OF INTERSECTION	TYP	TYPICAL
DW	DRIVEWAY	PKWY	PARKWAY	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
DWG	DRAWING	PL	PROPERTY LINE		FOR WATER DISTRIBUTION SYSTEMS
ECR	END CURB RETURN	PMF	PAVEMENT MARKING FILM	USDCCA	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS*
EAS	EAST	POB	POINT OF BEGINNING		CONSTRUCTION OFF-SITE IMPROVEMENTS
EA	EACH	POC	POINT ON CURVE		CLARK COUNTY AREA, NEVADA
ESMT	EASEMENT	POE	POINT OF ENDING	UT	UNDERGROUND TELEPHONE
ELE	END CURB RETURN	POT	POINT ON TANGENT	VAR	VARIABLE/VARIES
ELEC	ELECTRICAL	PP	POWER POLE	VC	VERTICAL CURVE
ELEV/EL	ELEVATION	PPCBR	PORTABLE PRECAST CONCRETE BARRIER RAIL	VERT	VERTICAL
EP/EOP	EDGE OF PAVEMENT	PPM	POLYUREA PAVEMENT MARKINGS	VG	VALLEY GUTTER
EQ	EQUAL	PR	PAIR	W	WEST
EST	ESTIMATED	PROP	PROPOSED	WY	WAY
EVC	END VERTICAL CURVE	PRC	POINT OF REVERSE CURVE	WGT	WEIGHT
EX/EXIST	EXISTING	PRVC	POINT REVERSE VERTICAL CURVE	XING	CROSSING
EXP	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH		
EW	EACH WAY	PT	POINT OF TANGENCY		
FC	FACE OF CURB	PVI	POINT OF VERTICAL INTERSECTION		
FG	FINISH GRADE	PVMT	PAVEMENT		
FH	FIRE HYDRANT	R	RADIUS	"SCP"	SKYE CANYON PARK DRIVE (IRON MOUNTAIN ROAD TO LOG CABIN WAY)
FL	FLOW LINE	RCB	REINFORCED CONCRETE BOX		
FO	FIBER OPTIC	RCP	REINFORCED CONCRETE PIPE		
FS	FINISH SURFACE	RD	ROAD		
FT	FOOT/FEET	RDWY	ROADWAY		
FTG	FOOTING	REC	RECTANGULAR		
FW	FACE OF WALL	REINF	REINFORCED		
FYA	FLASHING YELLOW ARROW	REQD	REQUIRED		
G	GAS	RND	ROUND		
GA	GAUGE	RP	RADIUS POINT		
GB	GRADE BREAK	RPM	RAISED PAVEMENT MARKERS		

ALIGNMENT ABBREVIATIONS

"SCP" SKYE CANYON PARK DRIVE
(IRON MOUNTAIN ROAD TO LOG CABIN WAY)



S-I-G
SLATER
HANIFAN
GROUP
a Westwood team

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CITY OF LAS VEGAS
ENTITIES

EASTLAND COMPANY, LLC
SUNSTONE PHASE 1
SKYE CANYON PARK DRIVE
NS. KEY MAP. LEGEND AND

DATE: 05/01/19

DRAFTER: SB/JR

DESIGNER: BC

CHECKED: JJ

PROJECT NO.

EST1908-000



Professional Engineer Seal

JOSHUA L. JOHNSON

Exp. 06/30/2019

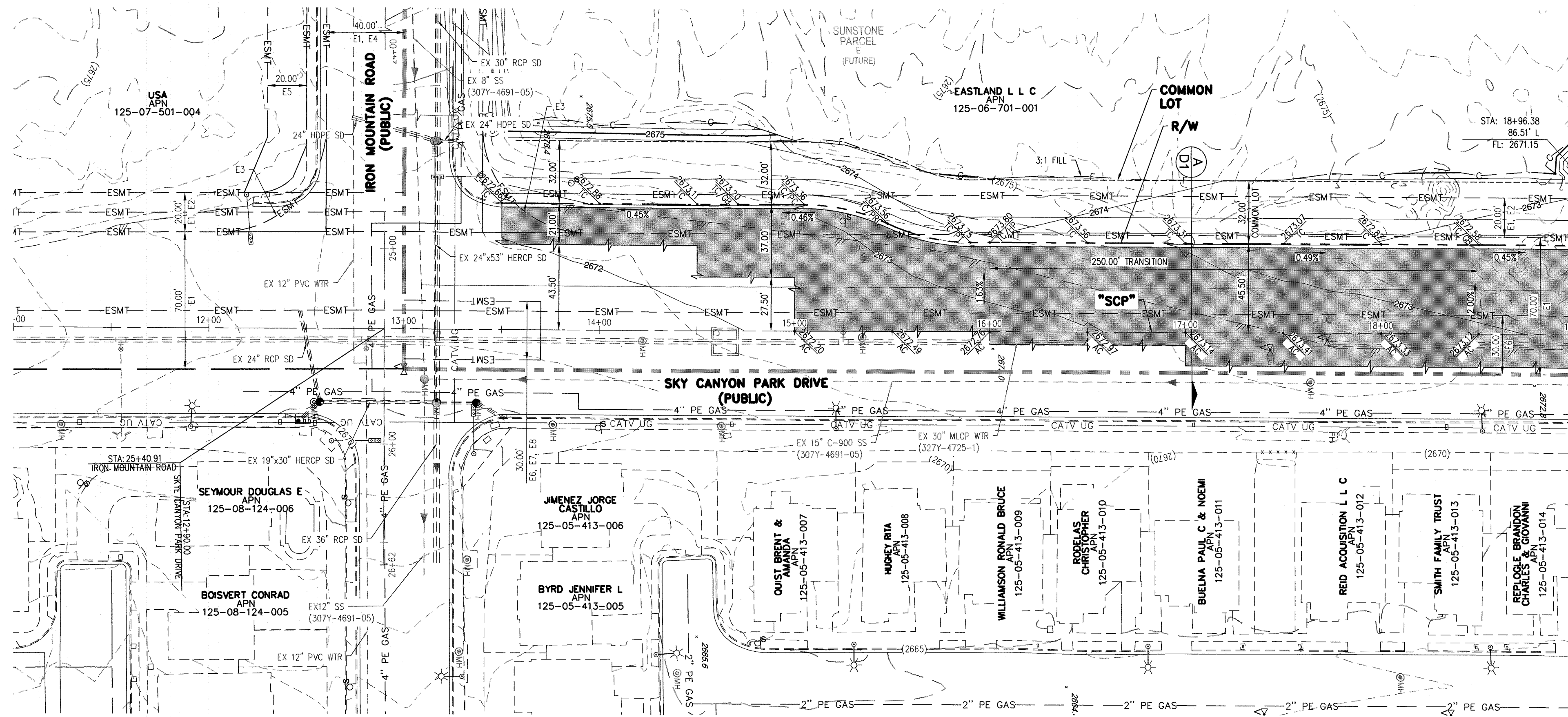
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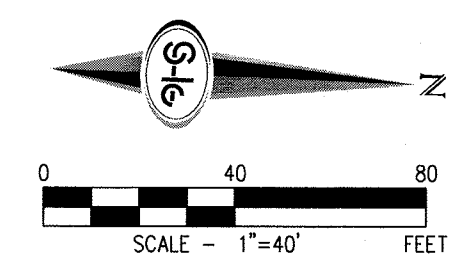
C-3

SHEET 5 OF 5

SEE CLV ##### FOR IMPROVEMENT PLANS



SEE SHEET P-2
MATCHLINE
"SCP" 19+00.00



STORM DRAIN NOTES

1. CONSTRUCT TYPE "CM2" DROP INLET (USDCCA STD. DWG. NO. 412.1 & 421)
2. CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
3. CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
4. INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
5. INSTALL 24" RCP (USDCCA STD. DWG. NO. 503.2)
6. INSTALL 48" TYPE I MANHOLE (USDCCA STD. DWG. NO. 403)
7. INSTALL 66" RCP (USDCCA STD. DWG. NO. 503.2)
8. CONNECT TO STORM DRAIN
9. INSTALL RCP END SECTION (NDOT STD. PLAN R-2.3.1)
10. CUT AND REMOVE PIPE TO THE WEST, CAP REMAINING PIPE.

EASEMENTS

- E1 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 28, 2003, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-75757 TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 30, 2003 IN BOOK 20030630, AS INSTRUMENT NO. 00811 OF OFFICIAL RECORDS.
- E2 RIGHT-OF-WAY GRANTED BY DECISION, DATED JUNE 9, 2004, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-75757 TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 18, 2004 IN BOOK 20040618, AS INSTRUMENT NO. 01781 OF OFFICIAL RECORDS.
- E3 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 07, 2003, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-76109 TO CITY OF LAS VEGAS FOR RIGHT FOR PERMANENT RIGHT-OF-WAY FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES ON PUBLIC LANDS UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON SEPTEMBER 09, 2003 IN BOOK 20030909, AS INSTRUMENT NO. 02351 OF OFFICIAL RECORDS.
- E4 LAS VEGAS VALLEY WATER DISTRICT RIGHT-OF-WAY PER N-76984
- RESERVATIONS, PROVISIONS AND EASEMENTS AS CONTAINED IN PATENT FROM THE UNITED STATES OF AMERICA, RECORDED AUGUST 03, 2005, IN BOOK 20050803 OF OFFICIAL RECORDS, AS INSTRUMENT NO. 013598
- E5 CITY OF LAS VEGAS RIGHT-OF-WAY PER N-75757/7
- E6 RIGHT-OF-WAY GRANTED BY DECISION, DATED SEPTEMBER 25, 2001, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751 TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON OCTOBER 12, 2001 IN BOOK 20010112, AS INSTRUMENT NO. 01611 OF OFFICIAL RECORDS.
- E7 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-01 TO LAS VEGAS VALLEY WATER DISTRICT FOR STORAGE OF PIPELINE MATERIAL, PLACEMENT OF EVACUATION SOILS, CONSTRUCTION EQUIPMENT AND TRAFFIC CONTROL, FOR THE CONSTRUCTION OF THE PIPELINE UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02001 OF OFFICIAL RECORDS.
- E8 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-A TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LANDS, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02002 OF OFFICIAL RECORDS.

NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPES IN PUBLIC ROW ARE PUBLICLY MAINTAINED.
6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
7. SEE UTILITY PLAN AND PROFILE SHEETS FOR UTILITY ADJUSTMENTS AND RELOCATIONS.
8. ALL INTERIM DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

DROP INLET NOTE

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

LEGEND

- 1 STORM DRAIN LATERAL # (SEE SHEETS P-6)

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

JOSHUA L. JOHNSON, P.E. 15789 DATE

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANELS 32003C1735E AND 32003C1750E BOTH DATED SEPTEMBER 27, 2002

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 VEGETATION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. XXXXXX FIRST APPROVED DATE:

SLATER
HANIFAN
GROUP

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

CITY OF LAS VEGAS

EASTLAND COMPANY, LLC

SUNSTONE PHASE 1

SKYE CANYON PARK DRIVE

PLAN AND PROFILE - "SCP" 11+00.00 TO "SCP" 19+00.00

DATE: 05/01/19

DRAFTER: SB/JR

DESIGNER: BC

CHECKED: JJ

PROJECT NO. EST1908-000

PROFESSIONAL ENGINEER - STATE OF NEVADA

JOSHUA L. JOHNSON

Exp. 06/28/2019

Civil

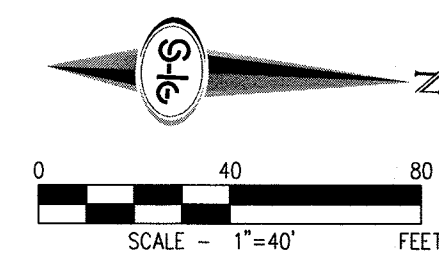
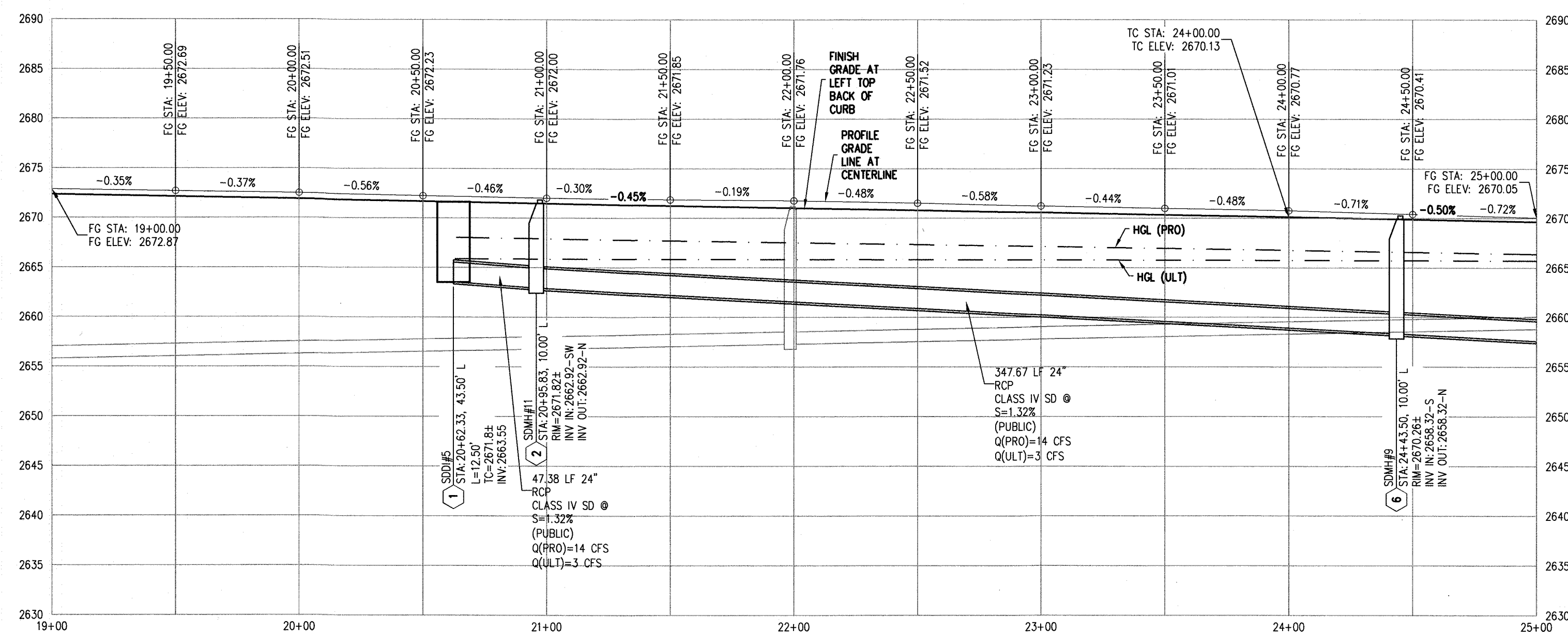
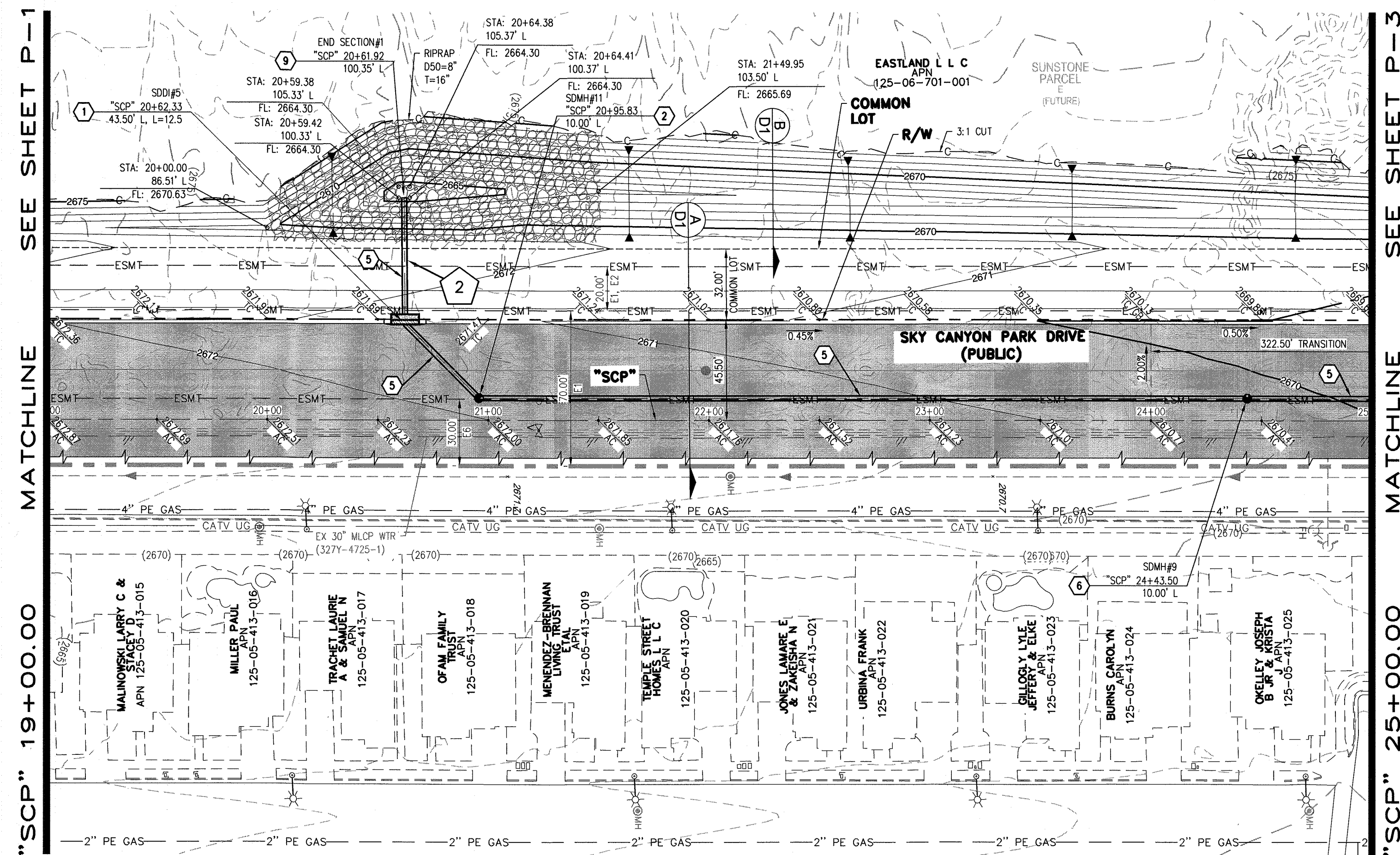
Exp. No. 15789

5/5/19

P-1

SHEET 4 OF 9

1. Est1908-000_sunstone_skye_canyon_park_drive_eastland_company\\jason\\est1908-000.dwg, 5/4/2019 9:49 PM Brian Chapman



- ## STORM DRAIN NOTES
1. CONSTRUCT TYPE "CMZ" DROP INLET (USDOCCA STD. DWG. NO. 412.1 & 421)
 2. CONSTRUCT 60" TYPE III MANHOLE (USDOCCA STD. DWG. NO. 406.1)
 3. CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
 4. INSTALL 18" RCP (USDOCCA STD. DWG. NO. 503.2)
 5. INSTALL 24" RCP (USDOCCA STD. DWG. NO. 503.2)
 6. INSTALL 48" TYPE I MANHOLE (USDOCCA STD. DWG. NO. 403)
 7. INSTALL 66" RCP (USDOCCA STD. DWG. NO. 503.2)
 8. CONNECT TO STORM DRAIN
 9. INSTALL RCP END SECTION (NDOT STD. PLAN R-2.3.1)
 10. CUT AND REMOVE PIPE TO THE WEST, CAP REMAINING PIPE.

- # EASEMENTS
- E RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 28, 2003, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-76751-7 TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 30, 2003 IN BOOK 20030630, AS INSTRUMENT NO. 0081 OF OFFICIAL RECORDS.
- E2 RIGHT-OF-WAY GRANTED BY DECISION, DATED JUNE 9, 2004, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-76751-7 TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 18, 2004 IN BOOK 20040618, AS INSTRUMENT NO. 01781 OF OFFICIAL RECORDS.
- E3 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 07, 2003, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-76109 TO CITY OF LAS VEGAS FOR RIGHT FOR PERMANENT RIGHT-OF-WAY FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES ON PUBLIC LAND UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON SEPTEMBER 09, 2003 IN BOOK 20030909, AS INSTRUMENT NO. 02351 OF OFFICIAL RECORDS.
- E4 LAS VEGAS VALLEY WATER DISTRICT RIGHT-OF-WAY PER N-76984
- RESERVATIONS, PROVISIONS AND EASEMENTS AS CONTAINED IN PATENT FROM THE UNITED STATES AMERICA, RECORDED AUGUST 03, 2003, IN BOOK 20050803 OF OFFICIAL RECORDS, AS INSTRUMENT 013598
- E5 CITY OF LAS VEGAS RIGHT-OF-WAY PER N-7571-7
- E6 RIGHT-OF-WAY GRANTED BY DECISION, DATED SEPTEMBER 25, 2001, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-10 TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON OCTOBER 12, 2001 IN BOOK 20010112, AS INSTRUMENT NO. 01161 OF OFFICIAL RECORDS.
- E7 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-10 TO LAS VEGAS VALLEY WATER DISTRICT FOR STORAGE OF PIPELINE MATERIAL, PLACEMENT OF EVALUATION SOILS, CONSTRUCTION EQUIPMENT AND TRAILER CONTROL, FOR THE CONSTRUCTION OF THE PIPELINE UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02001 OF OFFICIAL RECORDS.
- E8 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-10 TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LANDS, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02002 OF OFFICIAL RECORDS.

- ## NOTES
1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
 2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
 3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDOCA STD. DWG. NO. 421.
 4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
 5. ALL PIPES IN PUBLIC ROW ARE PUBLICLY MAINTAINED.
 6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
 7. SEE UTILITY PLAN AND PROFILE SHEETS FOR UTILITY ADJUSTMENTS AND RELOCATIONS.
 8. ALL INTERIM DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

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LEGEND

1 STORM DRAIN LATERAL # (SEE SHEETS P-6)

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

FLOOD ZONE

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NOTE

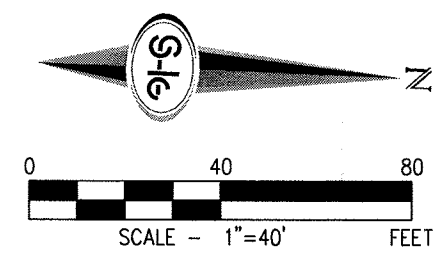
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of α -methylstyrene in the presence of SnCl_4 at 25°C . The concentration of SnCl_4 was 1.0×10^{-2} mole/l. The concentration of α -methylstyrene was 0.5 mole/l. The concentration of the inhibitor was: (a) 0.001 mole/l. (b) 0.002 mole/l. (c) 0.004 mole/l. (d) 0.008 mole/l. (e) 0.016 mole/l. (f) 0.032 mole/l. (g) 0.064 mole/l. (h) 0.128 mole/l. (i) 0.256 mole/l. (j) 0.512 mole/l. (k) 1.024 mole/l. (l) 2.048 mole/l. (m) 4.096 mole/l. (n) 8.192 mole/l. (o) 16.384 mole/l. (p) 32.768 mole/l. (q) 65.536 mole/l. (r) 131.072 mole/l. (s) 262.144 mole/l. (t) 524.288 mole/l. (u) 1048.576 mole/l. (v) 2097.152 mole/l. (w) 4194.304 mole/l. (x) 8388.608 mole/l. (y) 16777.216 mole/l. (z) 33554.432 mole/l. (aa) 67108.864 mole/l. (ab) 134217.728 mole/l. (ac) 268435.456 mole/l. (ad) 536870.912 mole/l. (ae) 1073741.824 mole/l. (af) 2147483.648 mole/l. (ag) 4294967.296 mole/l. (ah) 8589934.592 mole/l. (ai) 17179869.184 mole/l. (aj) 34359738.368 mole/l. (ak) 68719476.736 mole/l. (al) 137438953.472 mole/l. (am) 274877906.944 mole/l. (an) 549755813.888 mole/l. (ao) 1099511627.776 mole/l. (ap) 2199023255.552 mole/l. (aq) 4398046511.104 mole/l. (ar) 8796093022.208 mole/l. (as) 17592186044.416 mole/l. (at) 35184372088.832 mole/l. (au) 70368744177.664 mole/l. (av) 140737488355.328 mole/l. (aw) 281474976710.656 mole/l. (ax) 562949953421.312 mole/l. (ay) 1125899906842.624 mole/l. (az) 2251799813685.248 mole/l. (ba) 4503599627370.496 mole/l. (bb) 9007199254740.992 mole/l. (bc) 18014398509481.984 mole/l. (bd) 36028797018963.968 mole/l. (be) 72057594037927.936 mole/l. (bf) 144115188075855.872 mole/l. (bg) 288230376151711.744 mole/l. (bh) 576460752303423.488 mole/l. (bi) 1152921504606846.976 mole/l. (bj) 2305843009213693.952 mole/l. (bk) 4611686018427387.904 mole/l. (bl) 9223372036854775.808 mole/l. (bm) 18446744073709551.616 mole/l. (bn) 36893488147419103.232 mole/l. 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(eb) 2722258935367507707706996859454145691.648 mole/l. (ec) 5444517870735015415413993718908291383.296 mole/l. (ed) 10889035741470030830827987437816582766.592 mole/l. (ee) 21778071482940061661655974875633165533.184 mole/l. (ef) 43556142965880123323311949751266331066.368 mole/l. (eg) 8711228593176024664662

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- 1 CONSTRUCT PIPE "CMZ" DROP INLET (USDCCA STD. DWG. NO. 412.1 & 421)
- 2 CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
- 3 CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
- 4 INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
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- 6 INSTALL 48" TYPE I MANHOLE (USDCCA STD. DWG. NO. 403)
- 7 INSTALL 66" RCP (USDCCA STD. DWG. NO. 503.2)
- 8 CONNECT TO STORM DRAIN
- 9 INSTALL RCP END SECTION (NDOT STD. PLAN R-2.3.1)
- 10 CUT AND REMOVE PIPE TO THE WEST, CAP REMAINING PIPE.

- 1 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 28, 2003, BY THE BUREAU OF LAND
MANAGEMENT UNDER SERIAL NUMBER N-75757 TO CITY OF LAS VEGAS FOR ROADWAY.
SANTARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES UNDER RIGHT-OF-WAY GRANT
FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS
RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 30, 2003
IN BOOK 20030630, AS INSTRUMENT NO 00811 OF OFFICIAL RECORDS.
- 2 RIGHT-OF-WAY GRANTED BY DECISION, DATED JUNE 9, 2004, BY THE BUREAU OF LAND MANAGEMENT
UNDER SERIAL NUMBER B-75757A TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEER AND
DRAINAGE PURPOSES AND RELATED PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND
MANAGEMENT OVER A PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER
OF CLARK COUNTY, NEVADA ON JUNE 18, 2004 IN BOOK 200404618, AS INSTRUMENT NO. 01781 OF
OFFICIAL RECORDS.
- 3 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 07, 2003, BY THE BUREAU OF LAND MANAGEMENT
UNDER SERIAL NUMBER N-76509 TO CITY OF LAS VEGAS FOR RIGHT FOR PERMANENT RIGHT-OF-WAY
FOR SANITARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES UNDER RIGHT-OF-WAY GRANT
UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A
PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY,
NEVADA ON SEPTEMBER 09, 2003 IN BOOK 20030909, AS INSTRUMENT NO. 02351 OF OFFICIAL
RECORDS.
- 4 LAS VEGAS VALLEY WATER DISTRICT RIGHT-OF-WAY PER N-76984

RESERVATIONS, PROVISIONS AND EASEMENTS AS CONTAINED IN PATENT FROM THE UNITED STATES OF
AMERICA, RECORDED AUGUST 03, 2005, IN BOOK 20050803 OF OFFICIAL RECORDS, AS INSTRUMENT NO
013598
- 5 CITY OF LAS VEGAS RIGHT-OF-WAY PER N-75757/F
- 6 RIGHT-OF-WAY GRANTED BY DECISION, DATED SEPTEMBER 25,2001, BY THE BUREAU OF LAND
MANAGEMENT UNDER SERIAL NUMBER N-75757 TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER
MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT
OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY
NEVADA ON OCTOBER 12, 2001 IN BOOK 2001012, AS INSTRUMENT NO. 01161 OF OFFICIAL RECORDS.
- 7 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND
MANAGEMENT UNDER SERIAL NUMBER N-62751-01 TO LAS VEGAS VALLEY WATER DISTRICT FOR
STORM SEWER PIPELINE MATERIAL, PLACEMENT OF EVALUATION SOLDS, CONSTRUCTION EQUIPMENT
AND TRAFFIC CONTROL, FOR THE CONSTRUCTION OF THE PIPELINE UNDER RIGHT-OF-WAY GRANT FILED IN
THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER PORTION OF SAID LAND, AS RECORDED IN
THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK
20030116, AS INSTRUMENT NO. 02002 OF OFFICIAL RECORDS.
- 8 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND
MANAGEMENT UNDER SERIAL NUMBER N-62751-A TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER
MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER
A PORTION OF SAID LANDS, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK
COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02002 OF OFFICIAL
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1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. XXXXXX FIRST APPROVED DATE

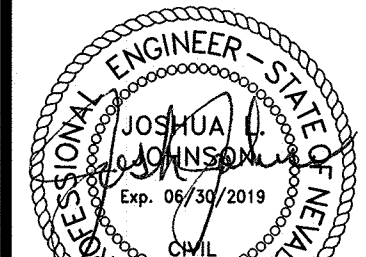
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. XXXXXX FIRST APPROVED DATE



PLAN AND PROFILE - "SCP" 33+00.00 TO "SCP" 38+00.00

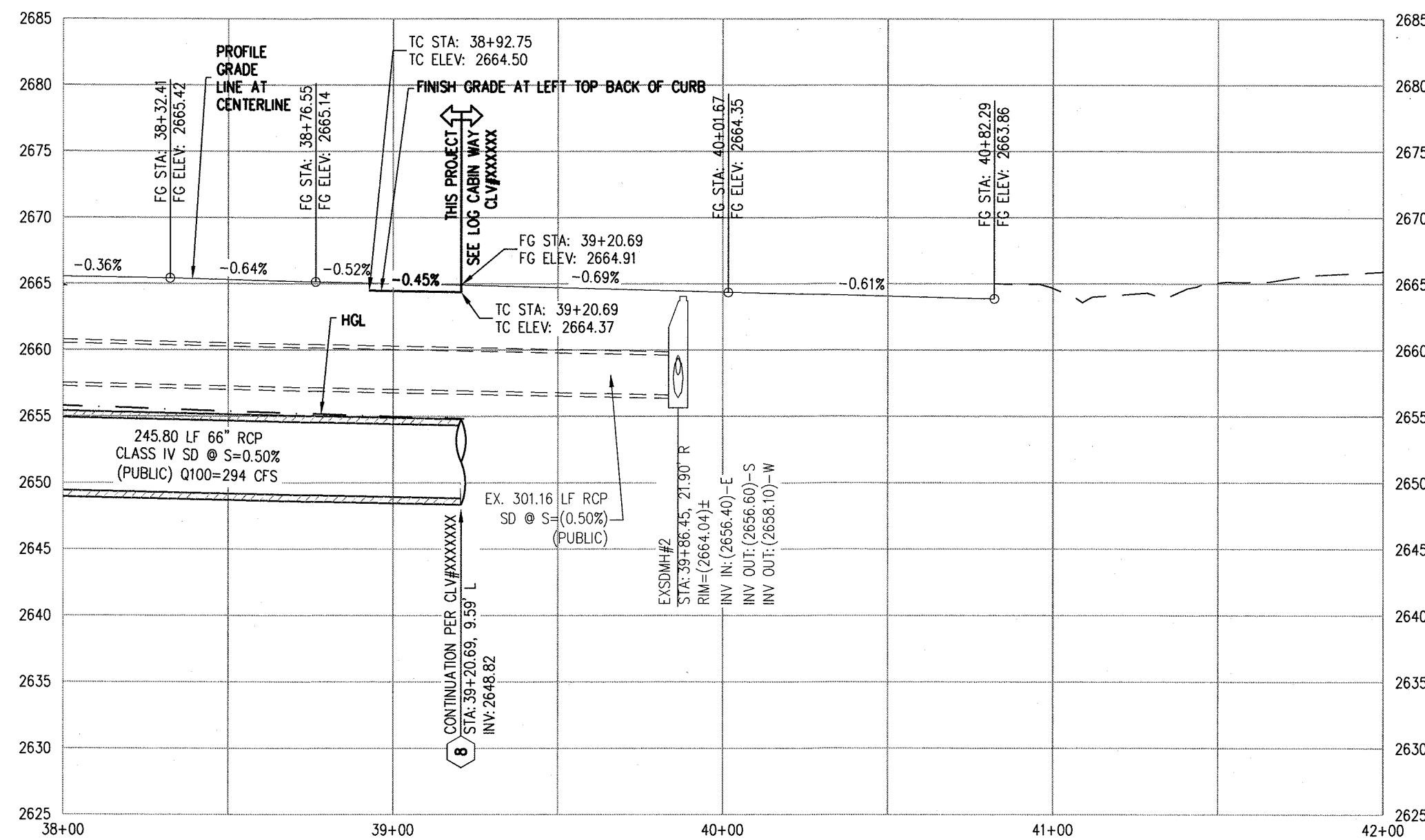
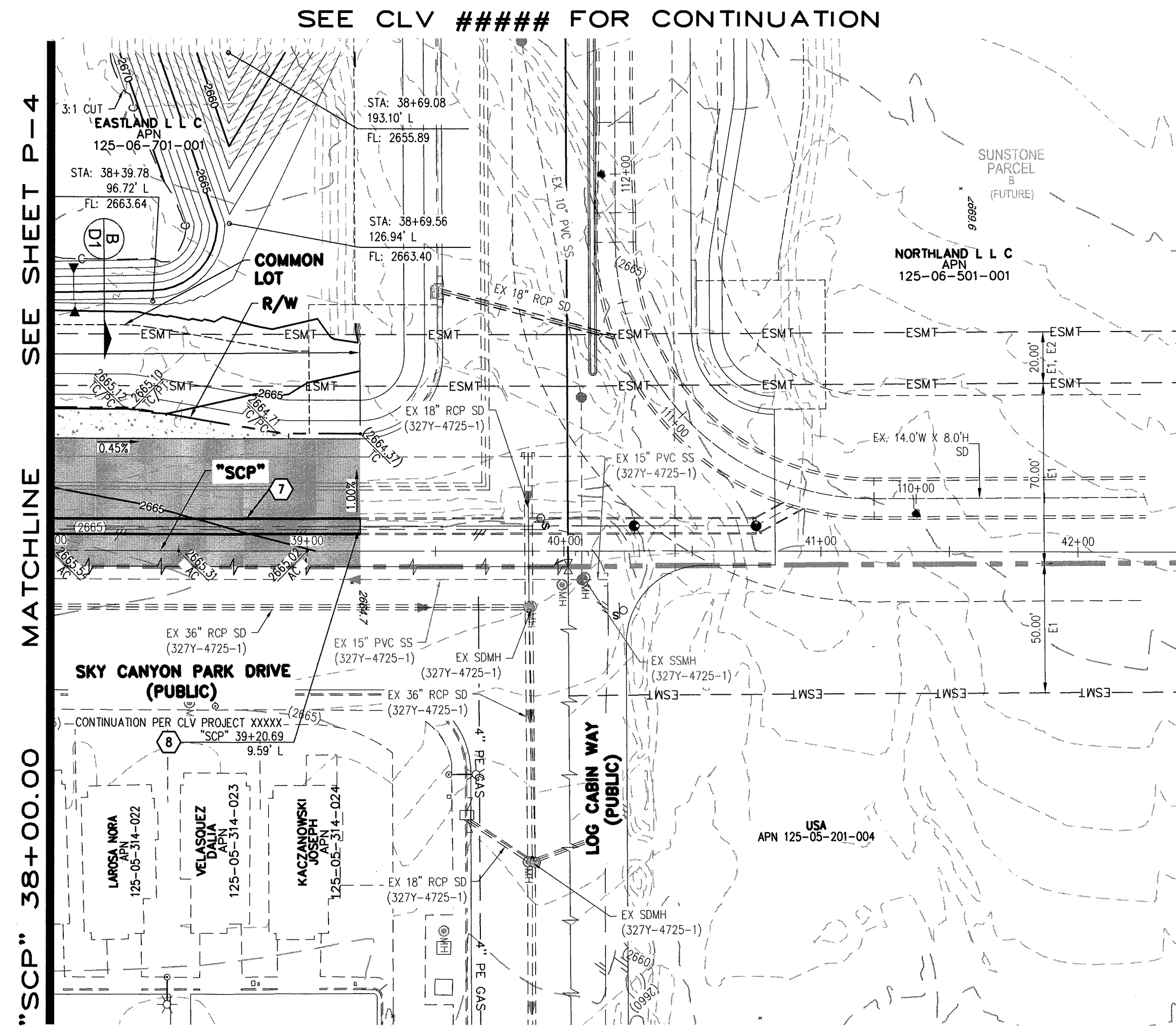
S-I-G
SLATER
HANIFAN
GROUP
a Westwood team

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

[illegible]

SHEET 7 OF 9

1:est1908-000 sunstone park canyon park\improvements\est1908-000.mxd 5/4/2019 9:51 PM Brian Chapman



STORM DRAIN NOTES

1. CONSTRUCT TYPE "CM2" DROP INLET (USDCCA STD. DWG. NO. 412.1 & 421)
2. CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
3. CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
4. INSTALL 18" RCP (USDCCA STD. DWG. NO. 503.2)
5. INSTALL 24" RCP (USDCCA STD. DWG. NO. 503.2)
6. INSTALL 48" TYPE I MANHOLE (USDCCA STD. DWG. NO. 403)
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10. CUT AND REMOVE PIPE TO THE WEST, CAP REMAINING PIPE.

EASEMENTS

- E1 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 28, 2003, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-75757 TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 30, 2003 IN BOOK 20030630, AS INSTRUMENT NO. 00811 OF OFFICIAL RECORDS.
- E2 RIGHT-OF-WAY GRANTED BY DECISION, DATED JUNE 9, 2004, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER B-75757A TO CITY OF LAS VEGAS FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JUNE 18, 2004 IN BOOK 20040618, AS INSTRUMENT NO. 01781 OF OFFICIAL RECORDS.
- E3 RIGHT-OF-WAY GRANTED BY DECISION, DATED MAY 07, 2003, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-76109 TO CITY OF LAS VEGAS FOR RIGHT FOR PERMANENT RIGHT-OF-WAY FOR ROADWAY, SANITARY SEWER AND DRAINAGE PURPOSES AND RELATED PURPOSES ON PUBLIC LANDS UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF THE LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON SEPTEMBER 05, 2003 IN BOOK 20030905, AS INSTRUMENT NO. 02351 OF OFFICIAL RECORDS.
- E4 LAS VEGAS VALLEY WATER DISTRICT RIGHT-OF-WAY PER N-76984
RESERVATIONS, PROVISIONS AND EASEMENTS AS CONTAINED IN PATENT FROM THE UNITED STATES OF AMERICA, RECORDED AUGUST 03, 2005, IN BOOK 20050803 OF OFFICIAL RECORDS, AS INSTRUMENT NO. 013598
- E5 CITY OF LAS VEGAS RIGHT-OF-WAY PER N-75757/F
- E6 RIGHT-OF-WAY GRANTED BY DECISION, DATED SEPTEMBER 25, 2001, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751 TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON OCTOBER 12, 2001 IN BOOK 20010112, AS INSTRUMENT NO. 01161 OF OFFICIAL RECORDS.
- E7 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-01 TO LAS VEGAS VALLEY WATER DISTRICT FOR STORAGE OF PIPELINE MATERIAL, PLACEMENT OF EVACUATION SOILS, CONSTRUCTION EQUIPMENT AND TRAFFIC CONTROL, FOR THE CONSTRUCTION OF THE PIPELINE UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER PORTION OF SAID LAND, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02001 OF OFFICIAL RECORDS.
- E8 RIGHT-OF-WAY GRANTED BY DECISION, DATED DECEMBER 05, 2002, BY THE BUREAU OF LAND MANAGEMENT UNDER SERIAL NUMBER N-62751-A TO LAS VEGAS VALLEY WATER DISTRICT FOR WATER MAIN UNDER RIGHT-OF-WAY GRANT FILED IN THE OFFICE OF THE BUREAU OF LAND MANAGEMENT OVER A PORTION OF SAID LANDS, AS RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA ON JANUARY 16, 2003 IN BOOK 20030116, AS INSTRUMENT NO. 02002 OF OFFICIAL RECORDS.

NOTES

1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
5. ALL PIPES IN PUBLIC ROW ARE PUBLICLY MAINTAINED.
6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.
7. SEE UTILITY PLAN AND PROFILE SHEETS FOR UTILITY ADJUSTMENTS AND RELOCATIONS.
8. ALL INTERIM DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND



STORM DRAIN LATERAL # (SEE SHEETS P-6)

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

JOSHUA L. JOHNSON, P.E. 15789 DATE

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) ON THE FLOOD INSURANCE RATE MAP (FIRM) PANELS: 32003C1735E AND 32003C1735E BOTH DATED SEPTEMBER 27, 2002

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 VEGETATION.

APPROVED FOR CONSTRUCTION

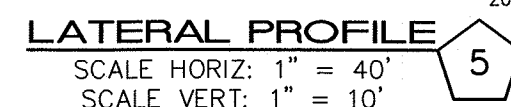
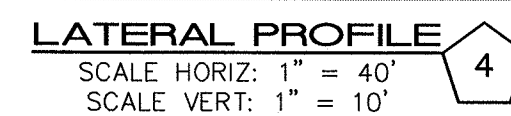
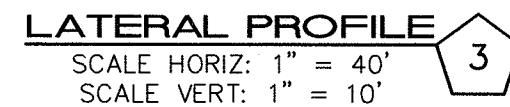
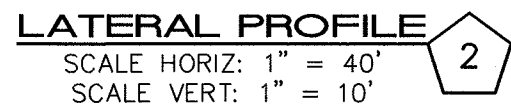
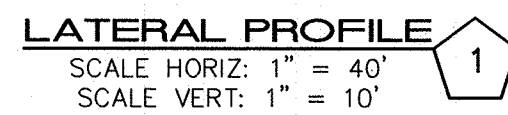
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. XXXXXX FIRST APPROVED DATE: _____



SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

EASTLAND COMPANY, LLC
SUNSTONE PHASE 1
SKYE CANYON PARK DRIVE
PLAN AND PROFILE - "SCP" 38+00.00 TO "SCP" 42+00.00

DATE: 05/01/19
DRAFTER: SB/JR
DESIGNER: BC
CHECKED: JJ
PROJECT NO. **EST1908-000**
JOSHUA L. JOHNSON, P.E. 15789
P-5
SHEET 8 OF 9

[illegible]

CITY OF LAS VEGAS

EST1908-000



SHEET 9 OF 9

[illegible]

CITY OF LAS VEGAS

EASTLAND COMPANY, LLC

**SUNSTONE PHASE 1
SKYE CANYON PARK DRIVE
DETAIL SHEET 1**

DATE: 05/01/19

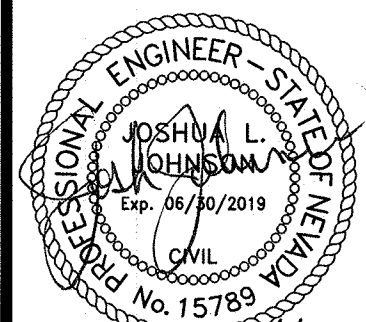
DRAFTER: SB/JR

DESIGNER: BC

CHECKED: JJ

PROJECT NO.

EST1908-000



D-1

SHEET 10 OF 90

