SKYE CANYON
DETENTION BASIN 1



FLOOD ZONE:

THIS SITE LIES WITHIN ZONE "X" DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1750E, DATED SEPTEMBER 27, 2002.

OWNER

SECTION 12, LLC
C/O OLYMPIA COMPANIES, LLC
11411 SOUTHERN HIGHLANDS PKWY, SUITE 300
LAS VEGAS, NV 89141

DEVELOPER

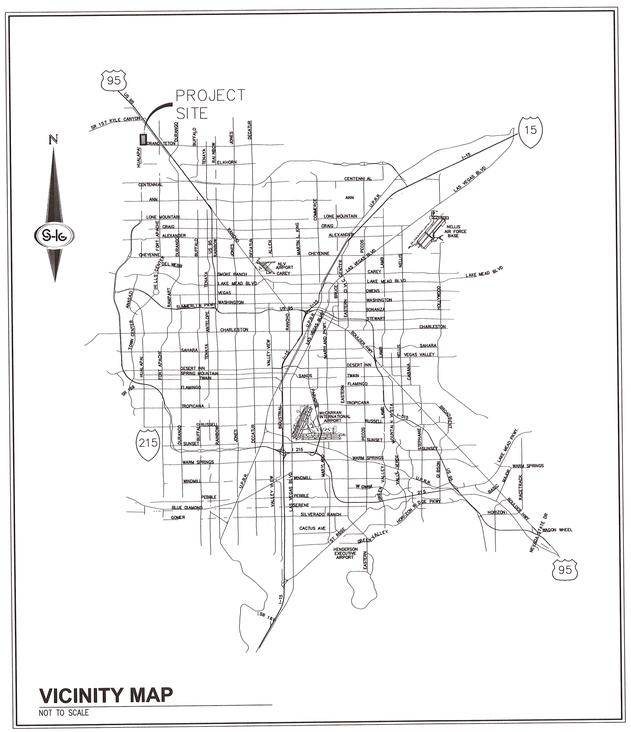
NINETY-FIVE MANAGEMENT, LLC
C/O OLYMPIA COMPANIES, LLC
11411 SOUTHERN HIGHLANDS PKWY, SUITE 300
LAS VEGAS, NV 89141
(702) 220-6565
(702) 220-6566 FAX

ENGINEER

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

*NOTE:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.



VICINITY MAP

NOT TO SCALE

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 5LV90 13NES–NAVD88
ELEVATION – 710.829 METERS, 2332.11 FEET

RIVET AND 2" ROUND ALUMINUM DISK, STAMPED CITY OF LAS VEGAS BENCHMARK 5LV901.3NES, LOCATED ON THE EAST CORNER OF A POWER POLE FOOTING AT THE SOUTHWEST CORNER OF THE INTERSECTION OF GRAND TETON DRIVE AND DECATUR BOULEVARD

THIS IS A COMMON BENCHMARK FOR THE CITY OF LAS VEGAS AND THE CITY OF NORTH LAS VEGAS AS SHOWN IN THE CITY OF NORTH LAS VEGAS VERTICAL CONTROL BENCHMARK BOOK, REVISED NOVEMBER 1, 2006

BASIS OF BEARING

SOUTH 87°29'39" EAST, BEING THE SOUTH LINE OF GOVERNMENT LOT 19 OF SECTION 18, TOWNSHIP 19 SOUTH, RANGE 61 EAST, M.D.M., CITY OF NORTH LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, IN FILE 104, PAGE 61 OF PARCEL MAPS.

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5	HC-2	HORIZONTAL CONTROL PLAN II
6	HC-3	HORIZONTAL CONTROL PLAN III
7	HC-4	HORIZONTAL CONTROL PLAN IV
8	G-1	GRADING PLAN I
9	G-2	GRADING PLAN II
10	G-3	GRADING PLAN III
11	G-4	GRADING PLAN IV
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SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
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APPROVALS:

CITY OF LAS VEGAS – CITY ENGINEER — DATE

CITY OF LAS VEGAS – BUILDING DEPARTMENT — DATE

CITY OF LAS VEGAS – FIRE & 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.

SLATER HANIFAN GROUP
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PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
COVER SHEET

T.19S
R.61E
S.12

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER STATE OF NEVADA
STEPHEN M. JONES
EXP. 6/30/15
CIVIL
No. 019658
9/16/2014

C-1
SHEET 1 OF 21

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2.1 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 TO BE AS SHOWN ON PLANS.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY GEO TEK, REPORT # 11687-LVR6, DATED MARCH 7, 2014 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.

15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER. ALL ABOVE GROUND UTILITY APPERTANANCES SHALL CONFORM TO THE REQUIREMENTS OF 19.12.040.

WALL NOTES:
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL 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. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED 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 RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR 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 MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO 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. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE OFFSITE INSPECTION AND TESTING SECTION PRIOR TO PROJECT ACCEPTANCE AND BOND RELEASE. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY. THE LOCATION SHALL BE DESCRIBED BY STATE PLANE COORDINATES WHICH SHALL BE BASED ON THE "NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE" AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND TIED TO THE CITY OF LAS VEGAS VERTICAL CONTROL BENCHMARK NETWORK. COORDINATES MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF +/- 0.1 METER (+/- 0.3 FEET). A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. STORM DRAIN LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT-OF-WAY OR WHERE THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M 4" MARKER BALL 1404-XR OR APPROVED EQUAL.

23. 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 ADDITION.

24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

2.2 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.

ABBREVIATIONS

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

LEGEND

- DRAINAGE EASEMENT
- ROADWAY CENTERLINE
- RIGHT-OF-WAY
- LOT LINE
- SECTION LINE
- 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
- 18" RCP SD — STORM DRAIN PIPE W/ MANHOLE
- GRADE BREAK LINE
- SAWCUT LINE
- FLOWLINE
- 00.00 TC — PROPOSED ELEVATION
- 00.00 TC — EXISTING ELEVATION
- 00.00 TC — FUTURE ELEVATION
- 2600 — EXISTING CONTOUR (5-FT)
- EXISTING CONTOUR (1-FT)
- 2600 — PROPOSED CONTOUR (5-FT)
- PROPOSED CONTOUR (1-FT)
- PAD = 3400.0 / FF = 3400.7 — PROPOSED PAD ELEVATION / FINISHED FLOOR ELEVATION
- PROPOSED WROUGHT IRON FENCE
- RETAINING/STEM WALL
- RETAINING WITH SCREEN WALL
- PERIMETER SCREEN WALL
- PERIMETER RETAINING WITH SCREEN WALL

QUANTITIES

			PRIVATE	PUBLIC
DRAINAGE				
1.	18" RCP SD	LF	–	207
2.	36" RCP SD	EA	–	204
3.	48" TYPE I SDMH PER CCAUSD NO. 403	EA	–	1
4.	30" ORIFICE PLATE	EA	–	1
5.	RCC STEPPED SPILLWAY	EA	–	1
6.	TYPE I STILLING BASIN	EA	–	1
8.	TYPE III STILLING BASIN	EA	–	1
9.	CONCRETE CHANNEL (12' BW, 3:1 SS)	LF	–	1,388
10.	RIPRAP (D50=12" THICKNESS=24")	EA	–	627
11.	3' CONCRETE VALLEY GUTTER	CY	–	1,186
12.	HEADWALL STRUCTURE	LF	–	2
12.	60" TYPE III MANHOLE PER CCAUSD NO. 406	LF	–	1

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

NOTES SHEET

12S 60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
EXP. 6/30/15
CIVIL
No. 019638
9/16/2014

C-2
SHEET 2 OF 21

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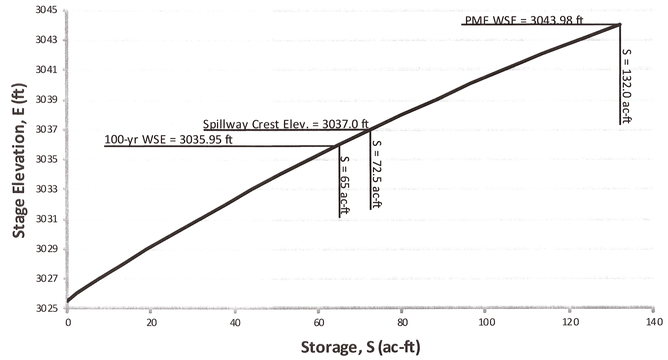
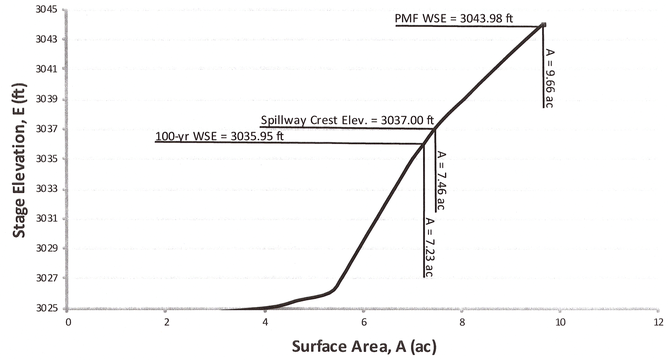
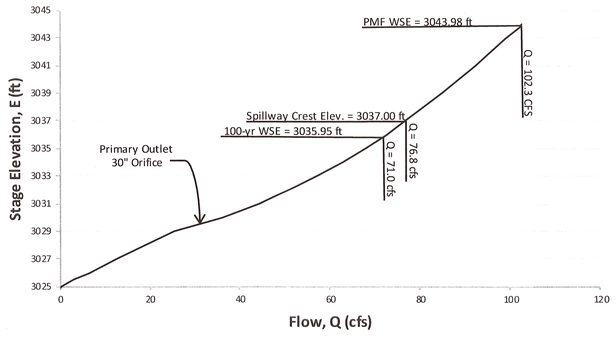
DETENTION BASIN 1
STAGE - STORAGE



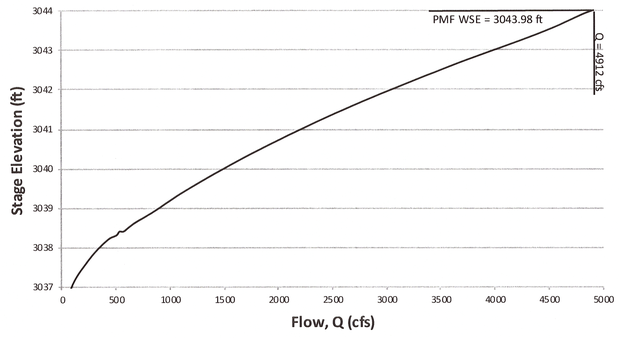
DETENTION BASIN 1
STAGE - SURFACE AREA



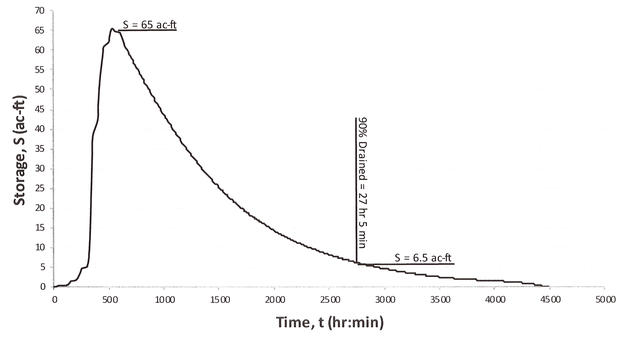
DETENTION BASIN 1
OUTLET STAGE - DISCHARGE



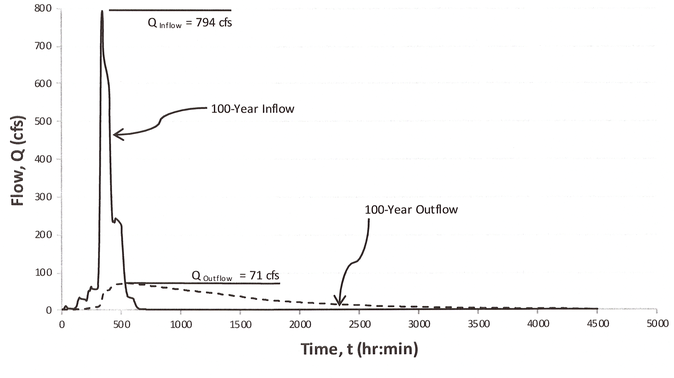
DETENTION BASIN 1
EMERGENCY SPILLWAY STAGE - DISCHARGE



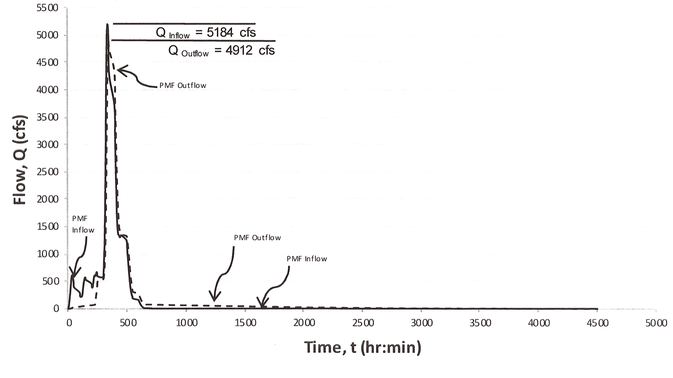
DETENTION BASIN 1
100-YR DRAIN TIME



DETENTION BASIN 1
100-YR INFLOW - OUTFLOW HYDROGRAPHS



DETENTION BASIN 1
PMF INFLOW - OUTFLOW HYDROGRAPHS



SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
PERFORMANCE CURVES

12s
68E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/15
CIVIL
No. 019638
9/16/2014

C-3
SHEET 3 OF 21

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EXISTING POWER POLE (TYP)

LIMITS OF PUBLIC DRAINAGE EASEMENT

ACCESS ROAD, SEE SHEETS P-5

RIPRAP D50=12" T=24"

USA
APN:126-11-000-001
(N.A.P.)

EXISTING POWER POLE (TYP)

EXIST. 10.50' ACCESS PATH

PROPOSED TURNAROUND

PROJECT LIMITS

10.00 NEVADA POWER EASEMENT PER B.L.M. FILE N-75751

10' WIDE FIBER-OPTIC RIGHT-OF-WAY PER N-78122 AND N-57071

3' VALLEY GUTTER SEE DETAIL 2, SHEET D-1

SEDIMENT STAFF GAUGE SEE DETAIL 4, SHEET D-1

EXISTING ACCESS PATH

ACCESS ROAD, SEE SHEETS P-4

LIMITS OF PUBLIC DRAINAGE EASEMENT

EXIST. ACCESS PATH

SECTION 12 LLC
APN 126-12-000-001

GROUTED RIPRAP D50=12", T=24"

CUTOFF WALL, SEE DETAIL 9, SHEET D-1

SEE SHEET P-5 FOR PROFILES

SDMH 1
STA:11+92.41 0.00'
RIM=3034.00
INV. IN: 3020.58-18"
INV. OUT: 3020.58-18"

SDMH 2
STA:12+05.32 -17.51' L
RIM=3033.55
INV. OUT: 3021.68-36"
INV. OUT: 3021.68-36"

174.53 LF 36" RCP CLASS V SD @ -2.19%
167.41 LF 18" RCP CLASS V SD @ 0.25%

39.71 LF 18" RCP CLASS III SD @ 0.25%

44.80 LF 36" RCP CLASS III SD @ 2.68%

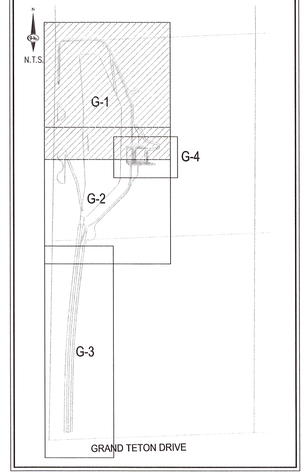
SEE SHEET G-4 FOR CLOSE-UP VIEW.

PROPOSED TURNAROUND

SEDIMENT STAFF GAUGE SEE DETAIL 4, SHEET D-1

MATCHLINE - SEE SHEET G-2

KEY MAP





LEGAL DESCRIPTION

BEING A PORTION OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST M.D.M., CLARK COUNTY, NEVADA.

BASIS OF BEARING

NORTH 89°11'30" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS PER FILE 151, PAGE 14 OF SURVEYS, ON FILE IN THE COUNTY RECORDER'S OFFICE.

BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #269941, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

FLOOD ZONE

THIS SITE LIES WITHIN ZONE "X" DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAIN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1750E, DATED SEPTEMBER 27, 2002.

FLOOD CERTIFICATION

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

STEPHEN M. JONES, P.E. 019638 — DATE

DISCLAIMER NOTE

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STORMWATER RUNOFF MANAGEMENT

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

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

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
Call before you do UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600
AND
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

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CONSULTING ENGINEERS & PLANNERS
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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

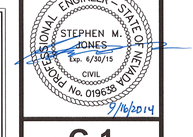
SKYE CANYON DETENTION BASIN 1

GRADING PLAN I

112 695 60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004



G-1
SHEET 8 OF 21

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MATCHLINE - SEE SHEET G-1

MATCHLINE - SEE SHEET G-3

PROPOSED TURNAROUND

EXISTING POWER POLE (TYP)

PROJECT LIMITS

EXISTING ACCESS PATH

EXISTING POWER POLE (TYP)

USA
APN 126-11-000-001
(N.A.P.)

SECTION 12 LLC
APN 126-12-000-001

46' WIDE NEVADA POWER COMPANY RIGHT-OF-WAY GRANT PER N-57071

48' WIDE FIBER OPTIC RIGHT-OF-WAY PER N-78122

10' WIDE FIBER OPTIC RIGHT-OF-WAY GRANT PER N-78122 N-75351 AND N-57071

RIPRAP D50=12" T=24"

CHUTE & BAFFLE BLOCKS SEE DETAIL 5, SHEET D-1

SEDIMENT STAFF GAUGE SEE DETAIL 4, SHEET D-1

3' VALLEY GUTTER SEE DETAIL 2, SHEET D-1

BASIN DEPTH GAUGE SEE DETAIL 8, SHEET D-1

SEE SHEET P-6 FOR PROFILES

SEE SHEET CLOSE-UP THIS SHEET

SEE SHEET P-2 FOR PLAN AND PROFILE

ACCESS ROAD, SEE SHEETS P-3

LIMITS OF PUBLIC DRAINAGE EASEMENT

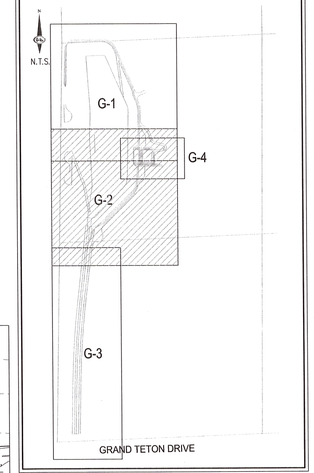
SEE SHEET D-4 FOR CLOSE UP VIEW

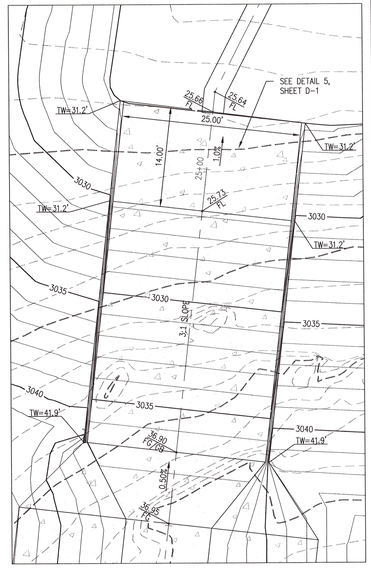
SEE DETAIL 5, SHEET D-1

44.80 LF 36" RCP CLASS III SD @ 2.68%

300.00' FUTURE SHEEP MOUNTAIN PKWY

KEY MAP





CLOSE UP
SCALE: 1"=10'

N

0 40 80
SCALE – 1"=40' FEET

LEGAL DESCRIPTION

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BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #26994T, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

FLOOD ZONE

THIS SITE LIES WITHIN ZONE "X" DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1750E, DATED SEPTEMBER 27, 2002.

FLOOD CERTIFICATION

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

STEPHEN M. JONES, P.E. 019638 DATE

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

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
GRADING PLAN II

T 19S R 60E S 12

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA – STEPHEN M. JONES – Exp. 6/30/15 – CIVIL – No. 019638

9/16/2014

G-2
SHEET 9 OF 21

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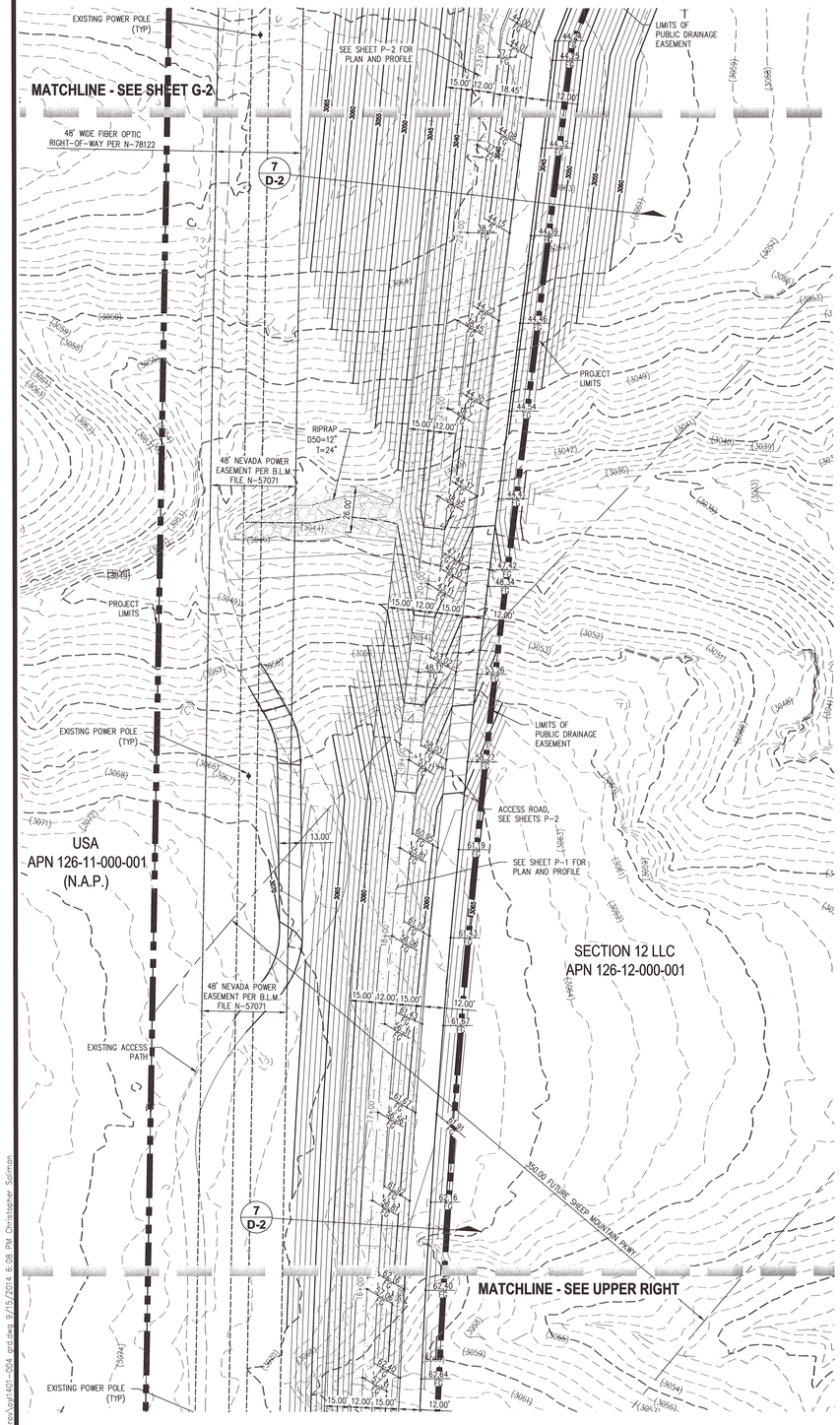

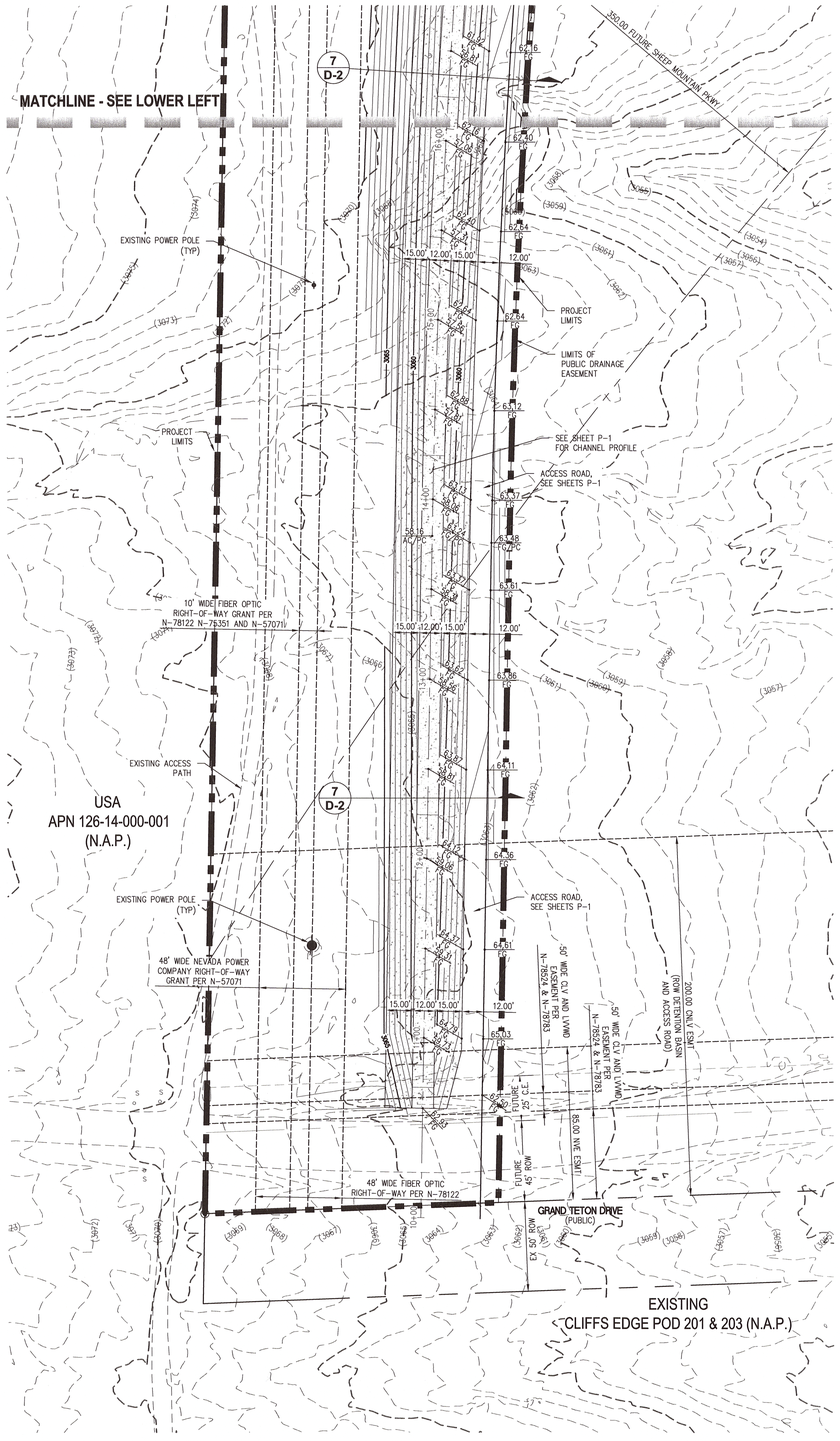

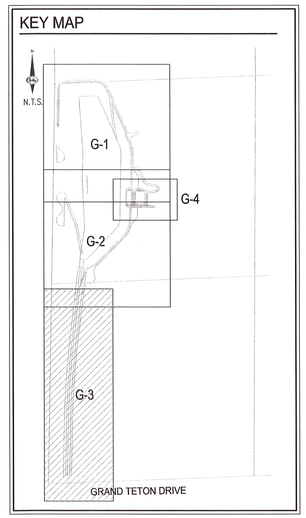

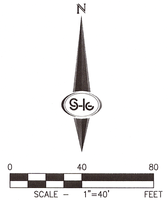

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PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

GRADING PLAN III

12
19S
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
EXP. 6/30/15
CIVIL
No. 019638
8/30/2014

G-3
SHEET 10 OF 21

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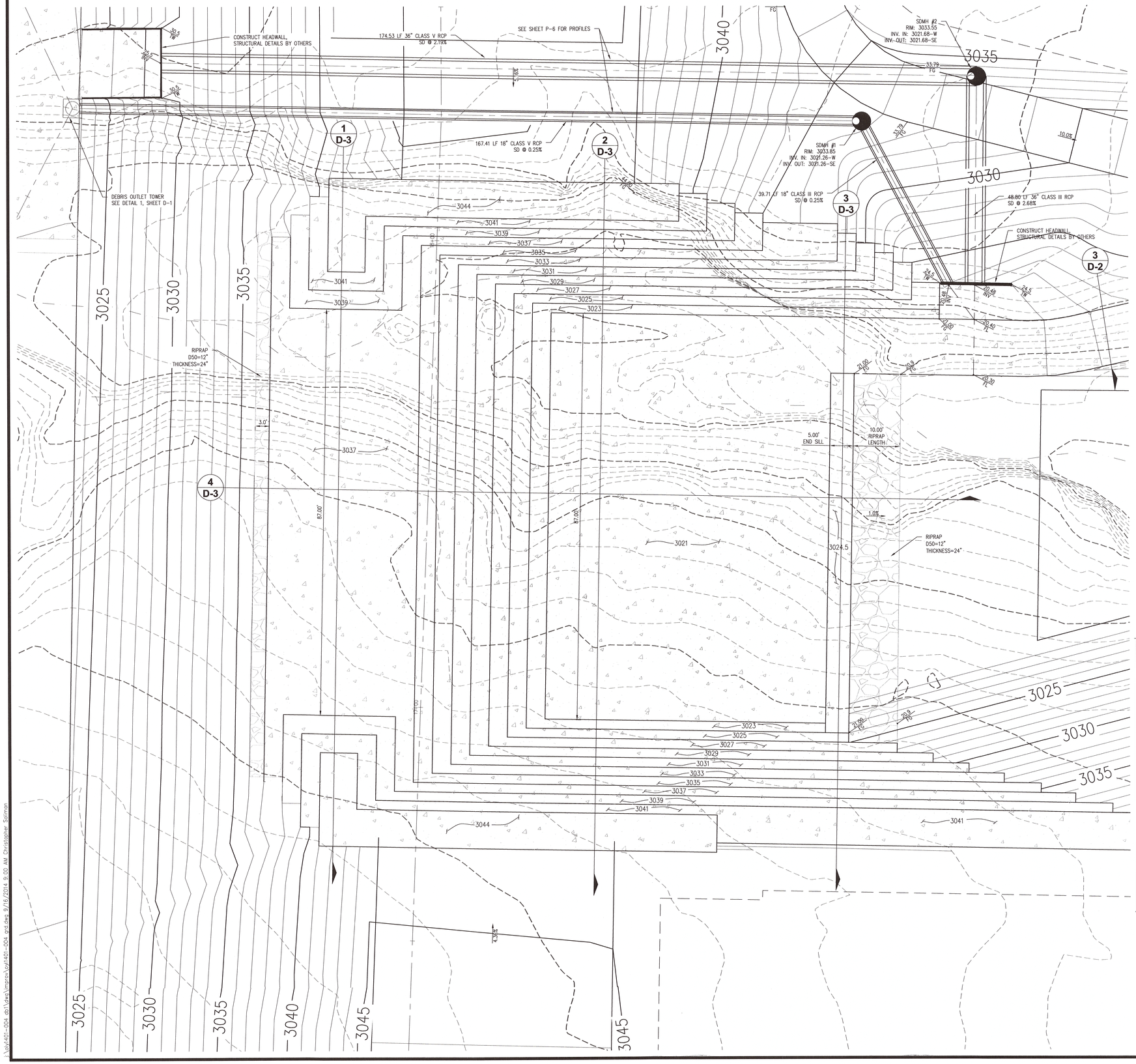
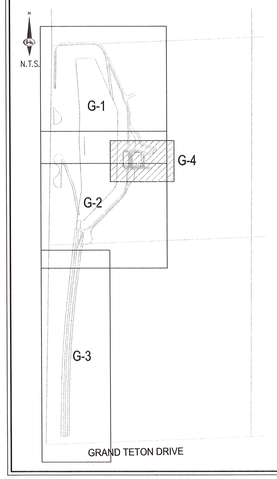
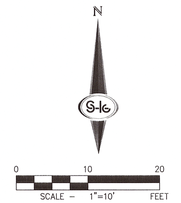


KEY MAP





LEGAL DESCRIPTION

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NORTH 89°11'30" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS PER FILE 151, PAGE 14 OF SURVEYS, ON FILE IN THE COUNTY RECORDER'S OFFICE.

BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #269947, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

FLOOD ZONE

THIS SITE LIES WITHIN ZONE "X" DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAIN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1750E, DATED SEPTEMBER 27, 2002.

FLOOD CERTIFICATION

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

STEPHEN M. JONES, P.E. 019638 DATE

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXCEPT 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.

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 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 THE CITY OF NORTH 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 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.







SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

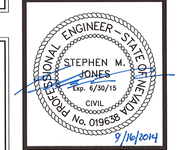
NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
GRADING PLAN IV

12
19SE
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004



9/16/2014

G-4
SHEET 11 OF 21

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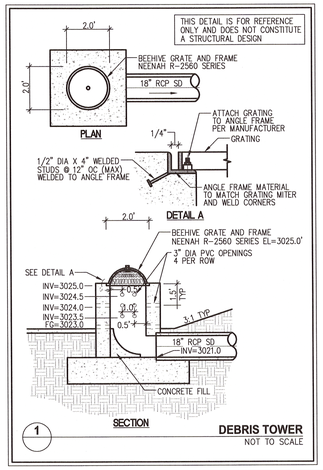
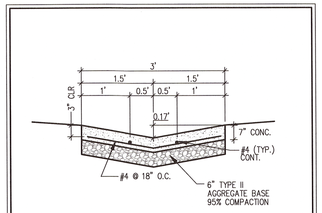
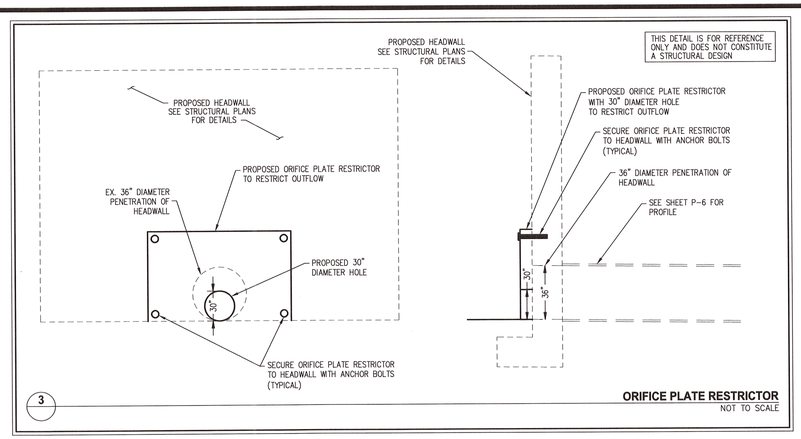
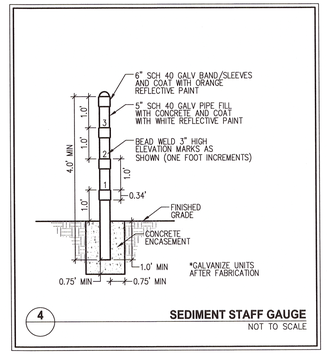
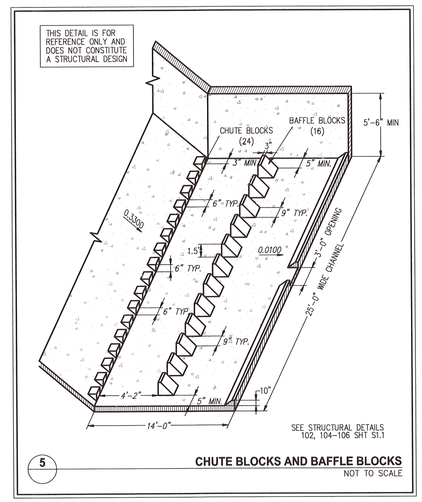






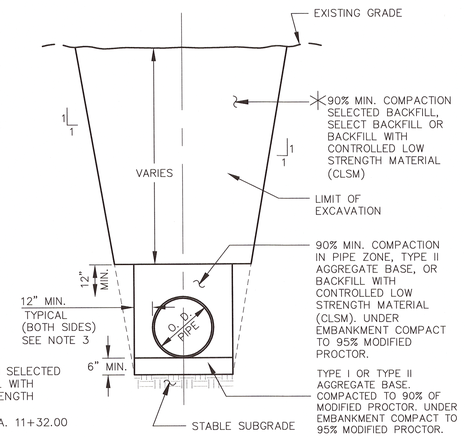




NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND RCP ZONE REQUIREMENTS FOR INSTALLATIONS SHALL CONFORM TO OSHA REGULATIONS. SLOPES SHOWN ARE BASED ON TYPE "B" SOILS. OTHER SLOPES MAY BE APPLICABLE AS STIPULATED BY THE ENGINEER.
3. TRENCH WIDTH MAY BE REDUCED WHEN USING CLSM AS APPROVED BY THE ENGINEER.

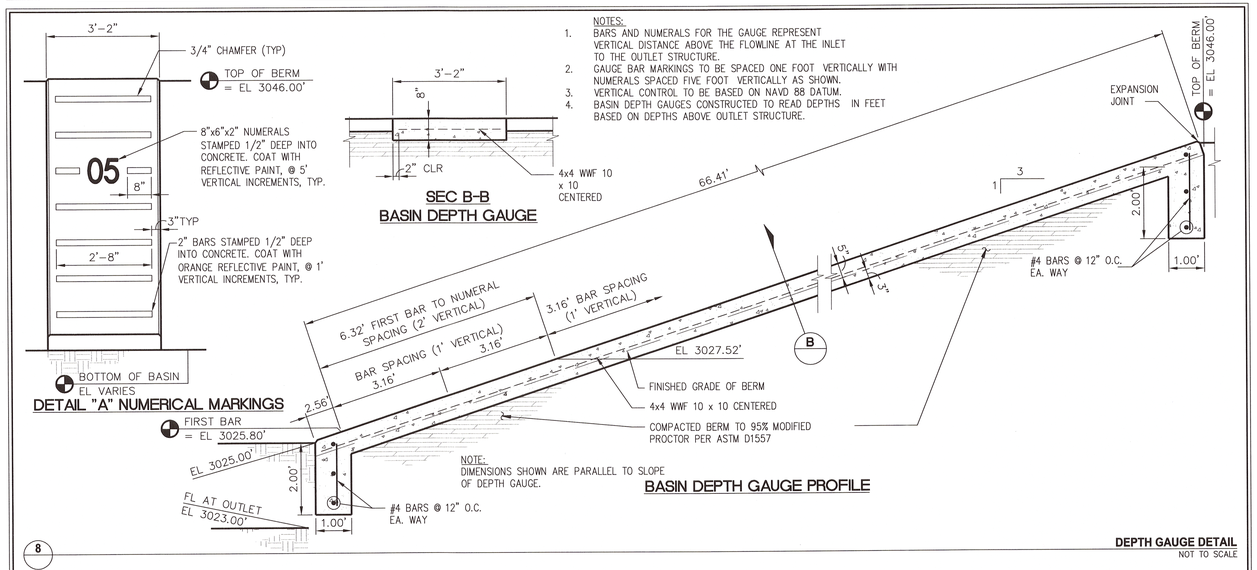
✳ UNDER EMBANKMENT: 95% MIN. COMPACTION SELECTED BACKFILL OR BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) STA. 10+33.88 TO STA. 11+32.00



NOTE: WHERE TRENCH EXCAVATION ENCOUNTER OVERSIZE BOULDERS (COBBLES AND BOULDERS GREATER THAN 12 INCHES), OR CEMENTED NATIVE MATERIALS IT IS RECOMMENDED THAT TRENCH EXCAVATIONS BE OVEREXCAVATED TO A DEPTH OF AT LEAST 2 FEET BELOW THE PIPELINE ELEVATIONS TO REMOVE OVERSIZE BOULDERS. THE OVEREXCAVATION SHOULD THEN BE BACKFILLED WITH COMPACTED SOIL FILL TO THE DESIGN PIPELINE ELEVATIONS.

6
RCP TRENCH DETAIL (TYP.)
NOT TO SCALE

7
NOT USED
NOT TO SCALE



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DEPTH GAUGE DETAIL
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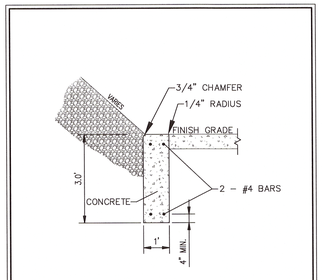

9
CUT-OFF WALL DETAIL
NOT TO SCALE

SLATER HANIFAN GROUP
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FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

DETAIL SHEET I

12
19S
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
No. 019638
Exp. 6/30/15
CIVIL
9/15/2014

D-1
SHEET 12 OF 21

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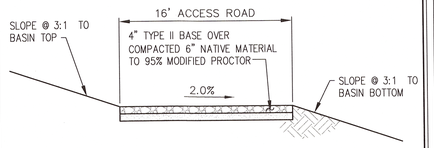
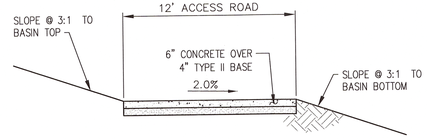
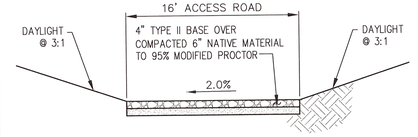
NOT TO SCALE



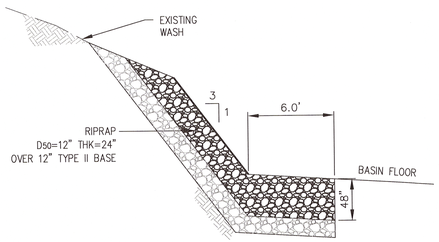
2 **16' ACCESS ROAD**
NOT TO SCALE



3 **12' ACCESS ROAD**
NOT TO SCALE



4 **16' ACCESS ROAD**
NOT TO SCALE



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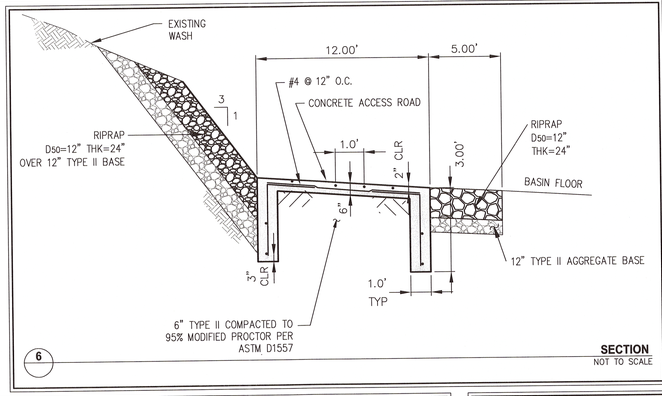

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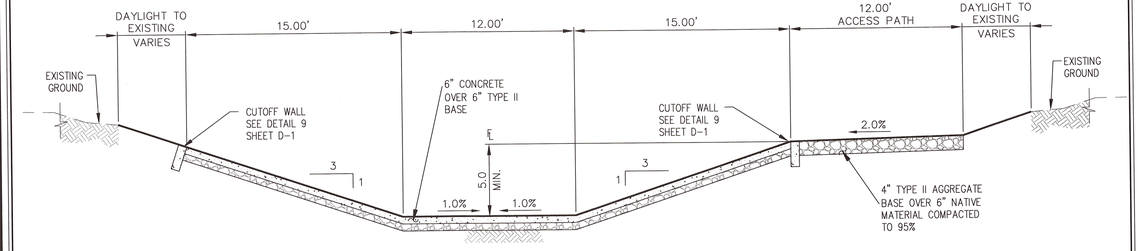

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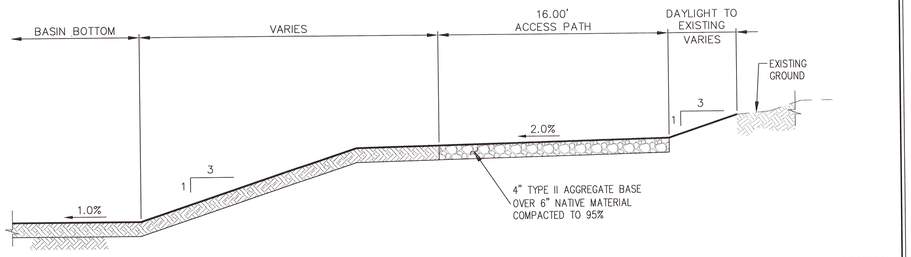

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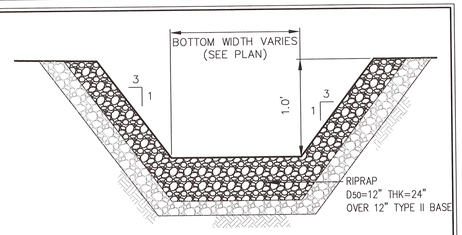

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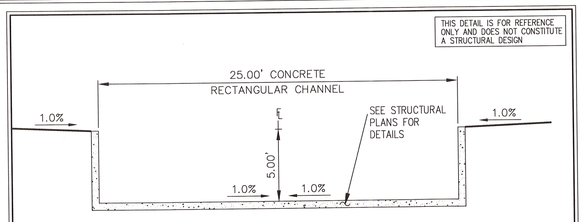

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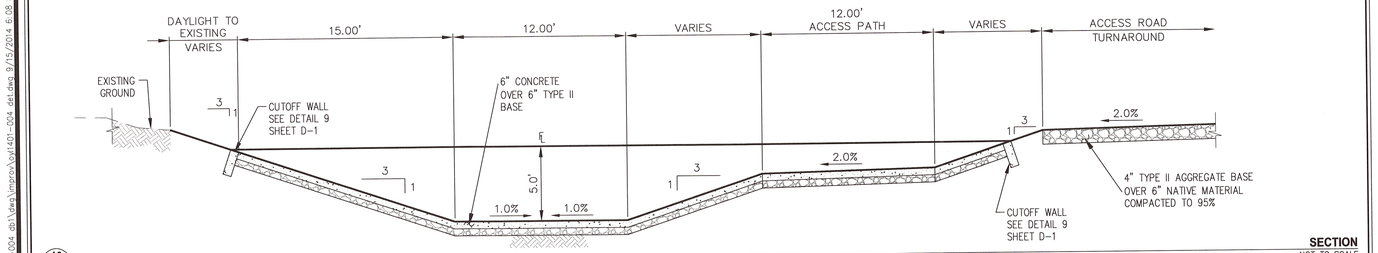

10 **SECTION**
NOT TO SCALE

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

DETAIL SHEET II

126
695

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER — STATE OF NEVADA — STEPHEN M. JONES — Exp. 6/30/15 — CIVIL — No. 019638
9/16/2014

D-2
SHEET 13 OF 21

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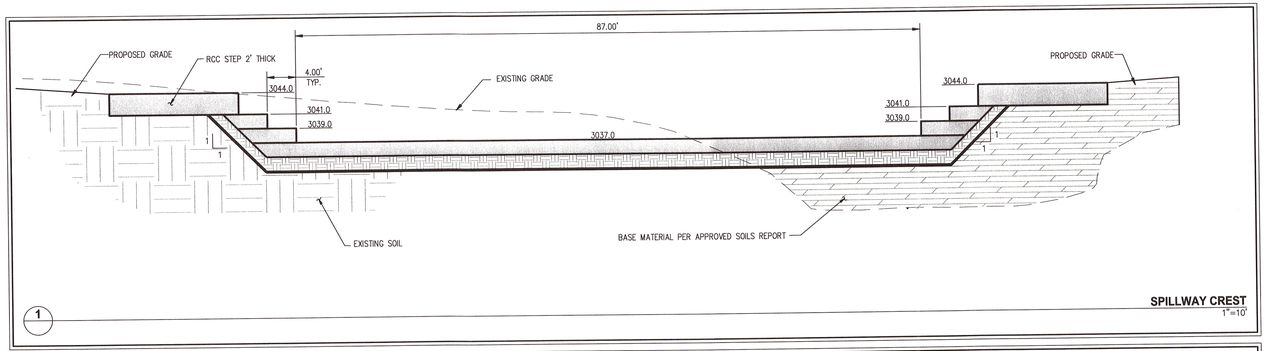
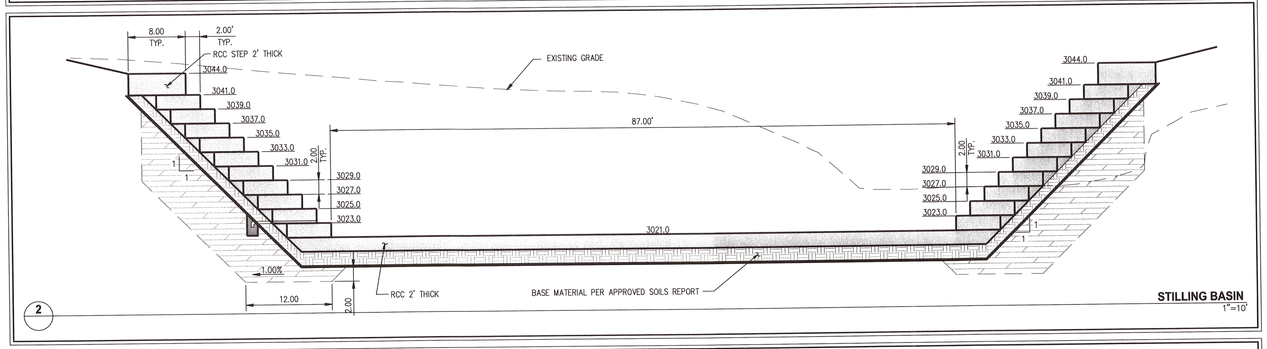
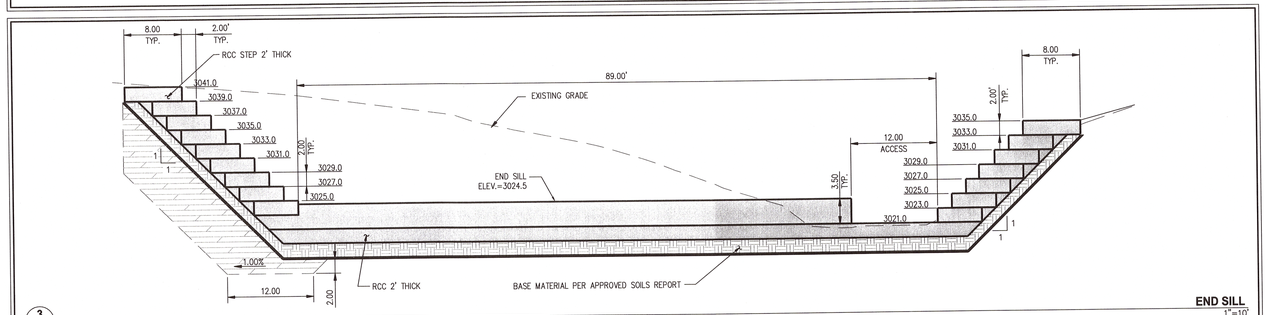


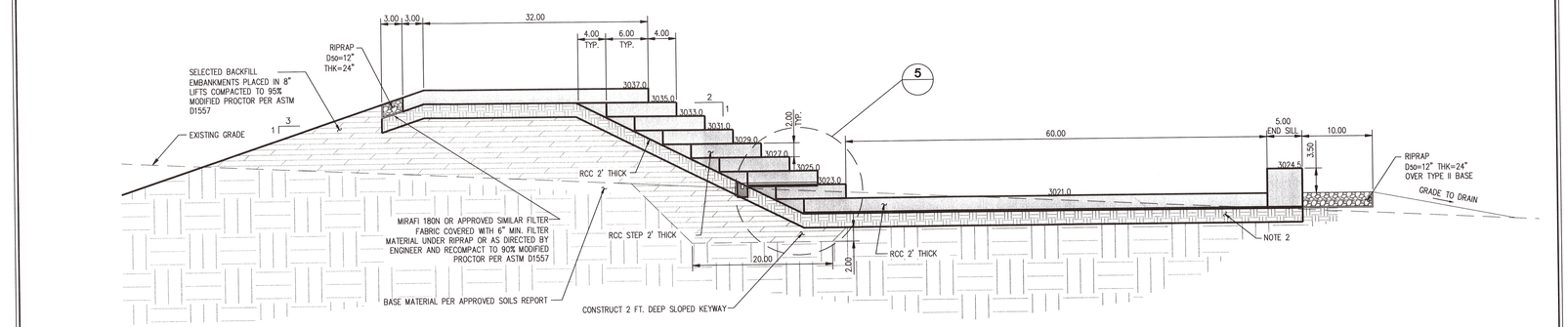
1 **SPILLWAY CREST** 1"=10'



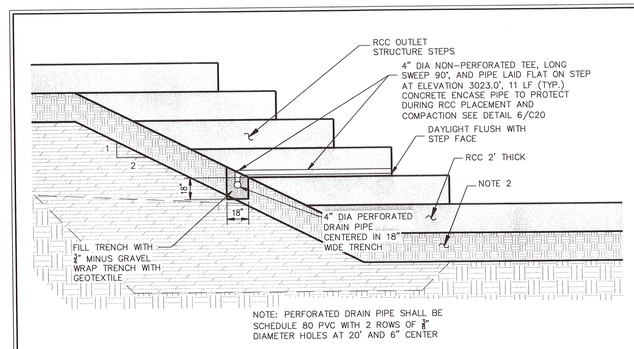
2 **STILLING BASIN** 1"=10'



3 **END SILL** 1"=10'



4 **SECTION** 1"=10'



5 **UNDERDRAIN DETAIL** N.T.S.

GENERAL NOTES

1. SEE SHEET D-1 FOR GRADING DETAILS.
2. ROLLER COMPACTED CONCRETE SHOULD BE FOUNDED ON A LAYER OF TYPE II AGGREGATE BASE AT LEAST 6 INCES THICK IN CONFORMANCE WITH USSPWC SUBSECTIONS 704.03.04 AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. ALTERNATIVELY THE RCC SPILLWAY MAY BE CONSTRUCTED DIRECTLY ATOP STRUCTURAL FILL MATERIALS PROVIDED THE EMBANKMENT IS OVERBUILT A MINIMUM OF 5 FEET AND CUT BACK TO DESIGN GRADE. NO MATERIALS WITH NOMINAL DIMENSION GREATER THAN 6 INCHES SHOULD BE EXPOSED AT THE SLOPE FACE PRIOR TO CONSTRUCTION THE RCC SPILLWAY

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
DETAIL SHEET III

12 18S 60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO. OLY1401.004

D-3
SHEET 14 OF 21

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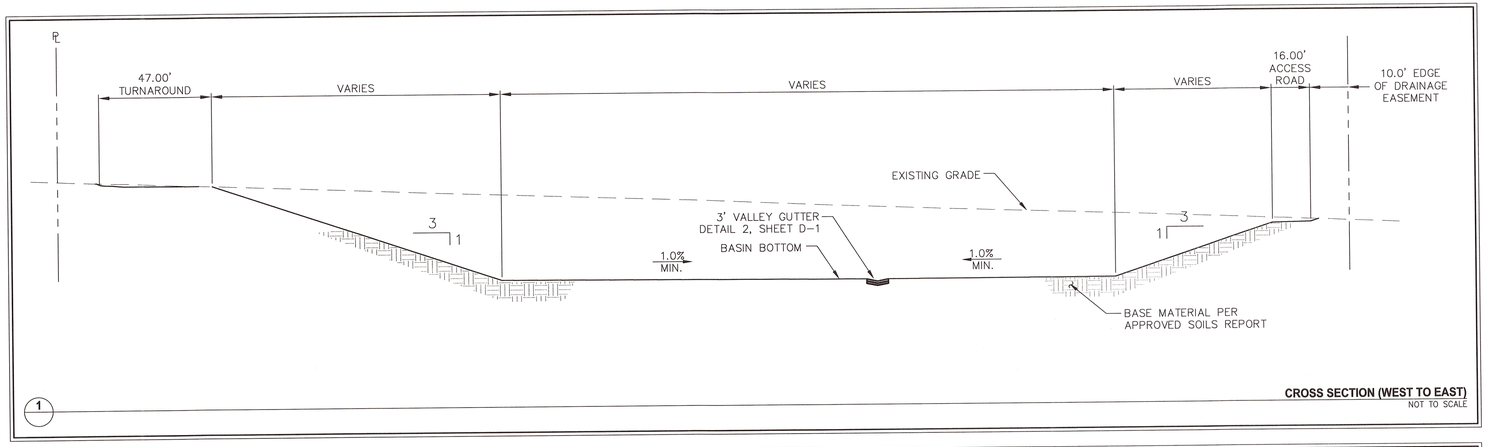

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CROSS SECTION (WEST TO EAST)
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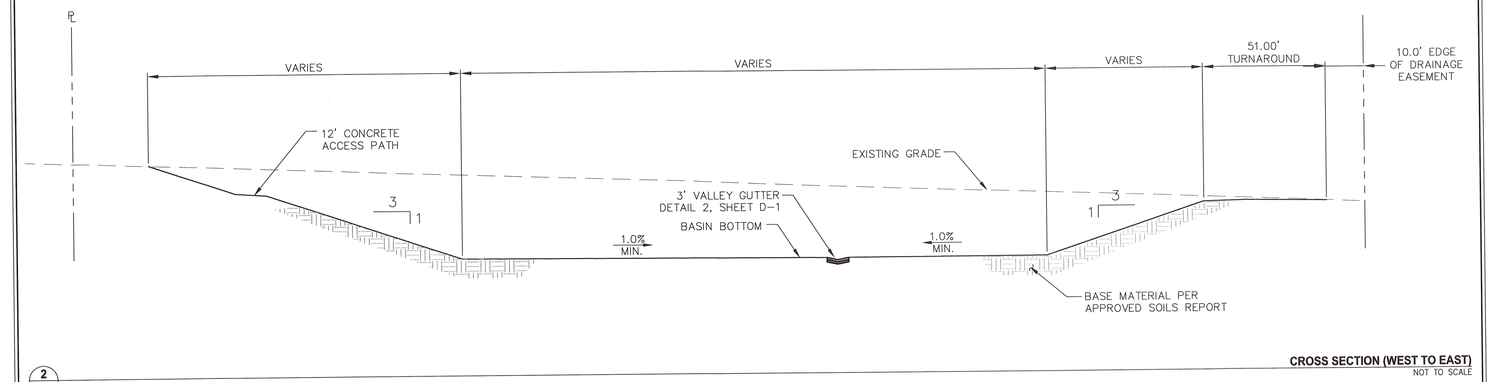

2

CROSS SECTION (WEST TO EAST)
NOT TO SCALE

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
DETAIL SHEET IV

12S
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/15
CIVIL
No. 019638
9/16/2014

D-4
SHEET 15 OF 21

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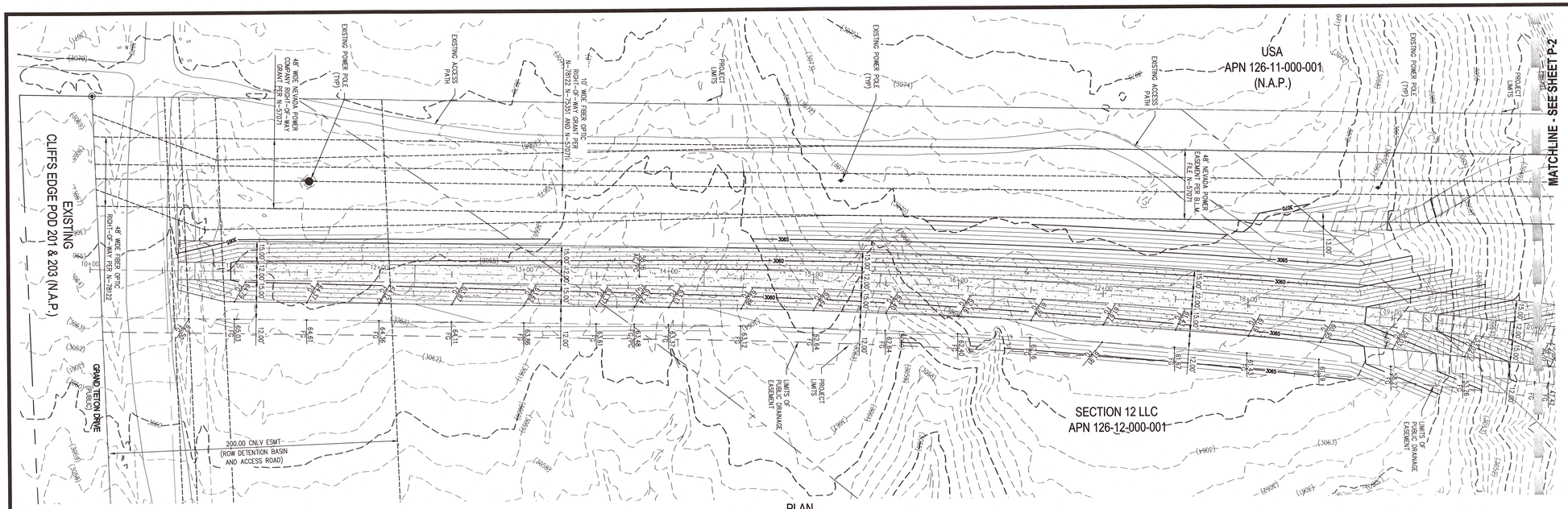
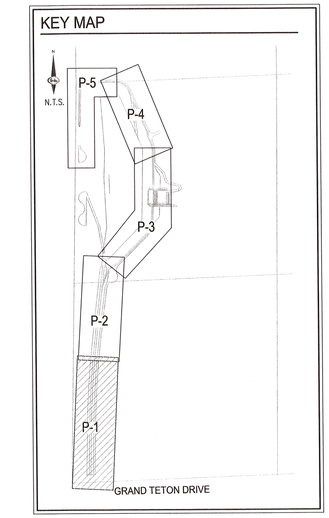
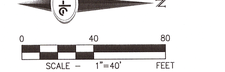


PROFILE
HOR. : 1"=40'
VERT. : 1"=4'





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 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 THE CITY OF NORTH 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 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.
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LEGAL DESCRIPTION

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NORTH 89°11'30" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS PER FILE 151, PAGE 14 OF SURVEYS, ON FILE IN THE COUNTY RECORDER'S OFFICE.

BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #269947, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1735E, 32003C1745E & 32003C1750E DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD

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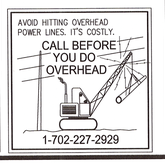
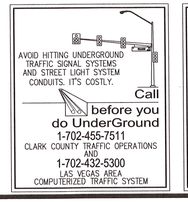
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS_____ ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

STEPHEN M. JONES, P.E. 019638 DATE







SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

INFLOW CHANNEL - PLAN AND PROFILE I

12S 60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER - STATE OF NEVADA - STEPHEN M. JONES - Exp. 6/30/15 - CIVIL - PROJECT No. 019638
9/15/2014

P-1
SHEET 16 OF 21

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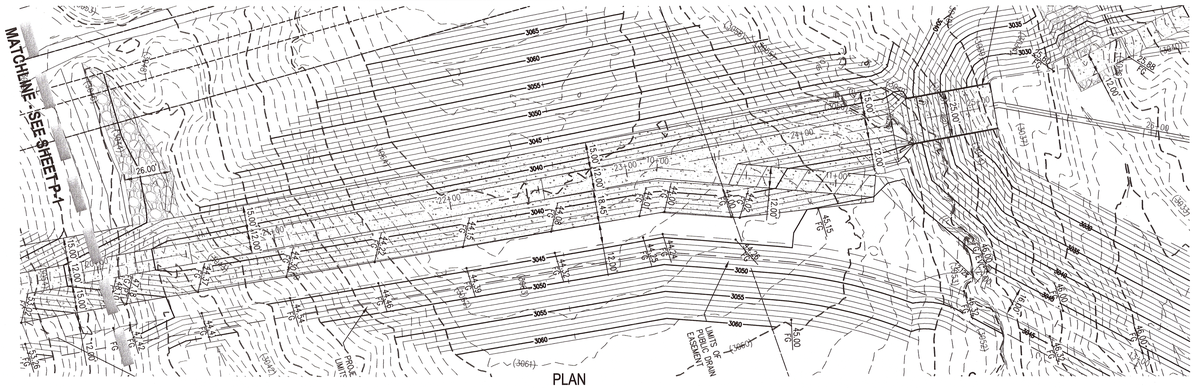

PLAN
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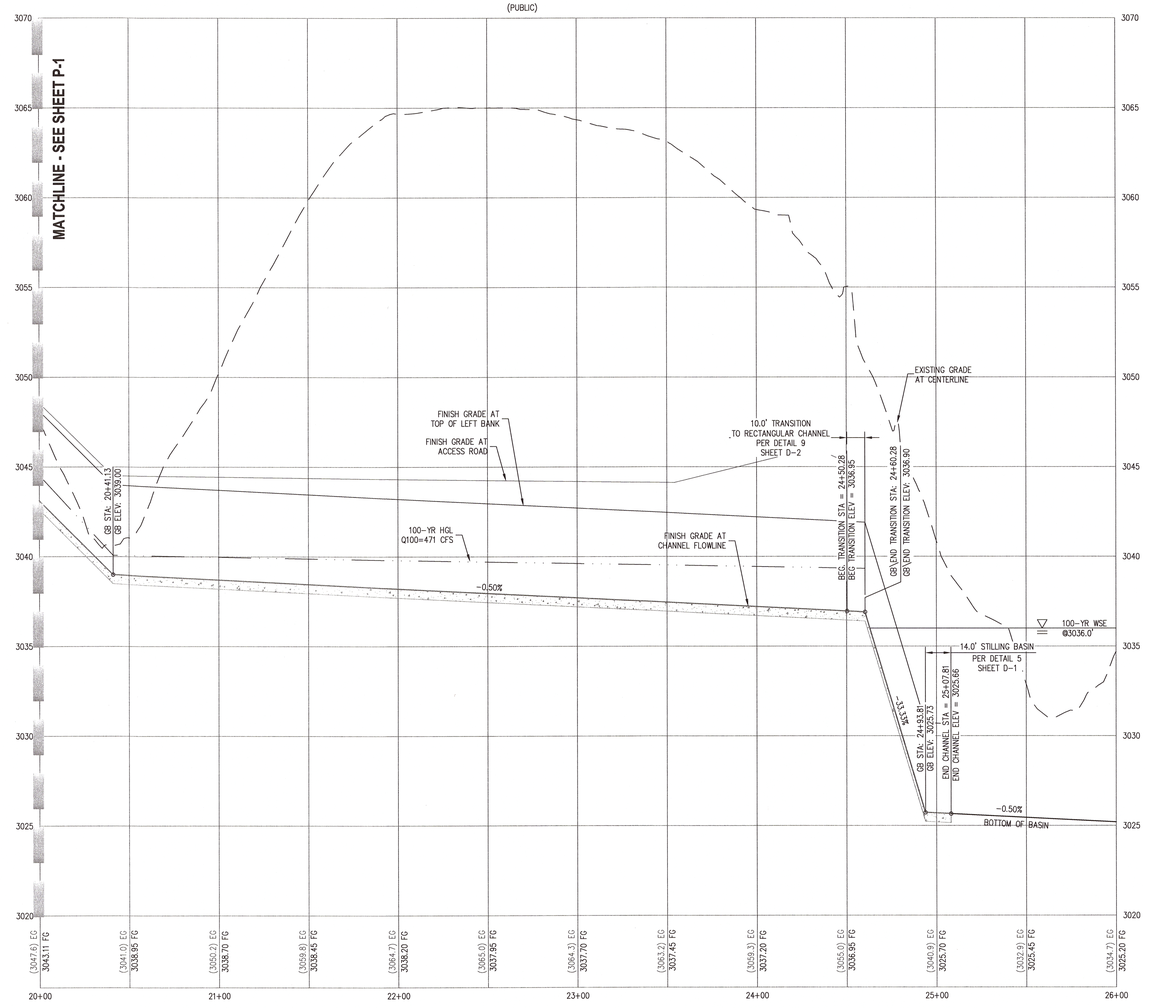

PROFILE
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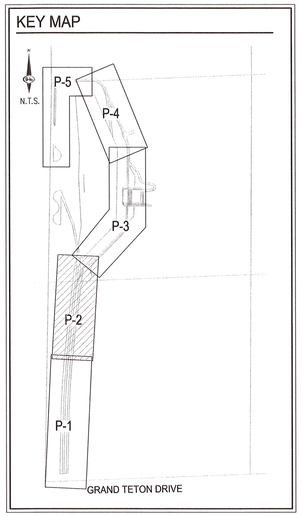
VERT. : 1"=4'





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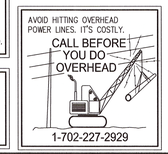
STEPHEN M. JONES, P.E. 019638 DATE







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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

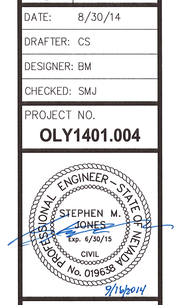
CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1 INFLOW CHANNEL - PLAN AND PROFILE II

12 19S 60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004



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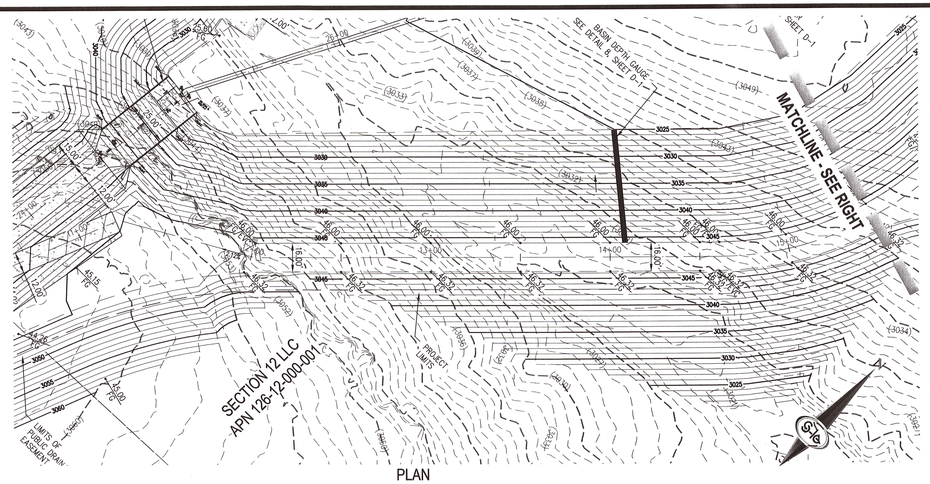

PLAN
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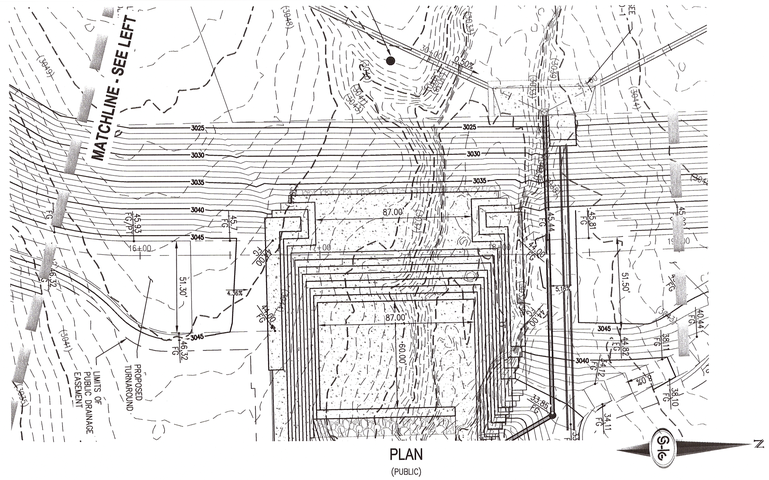

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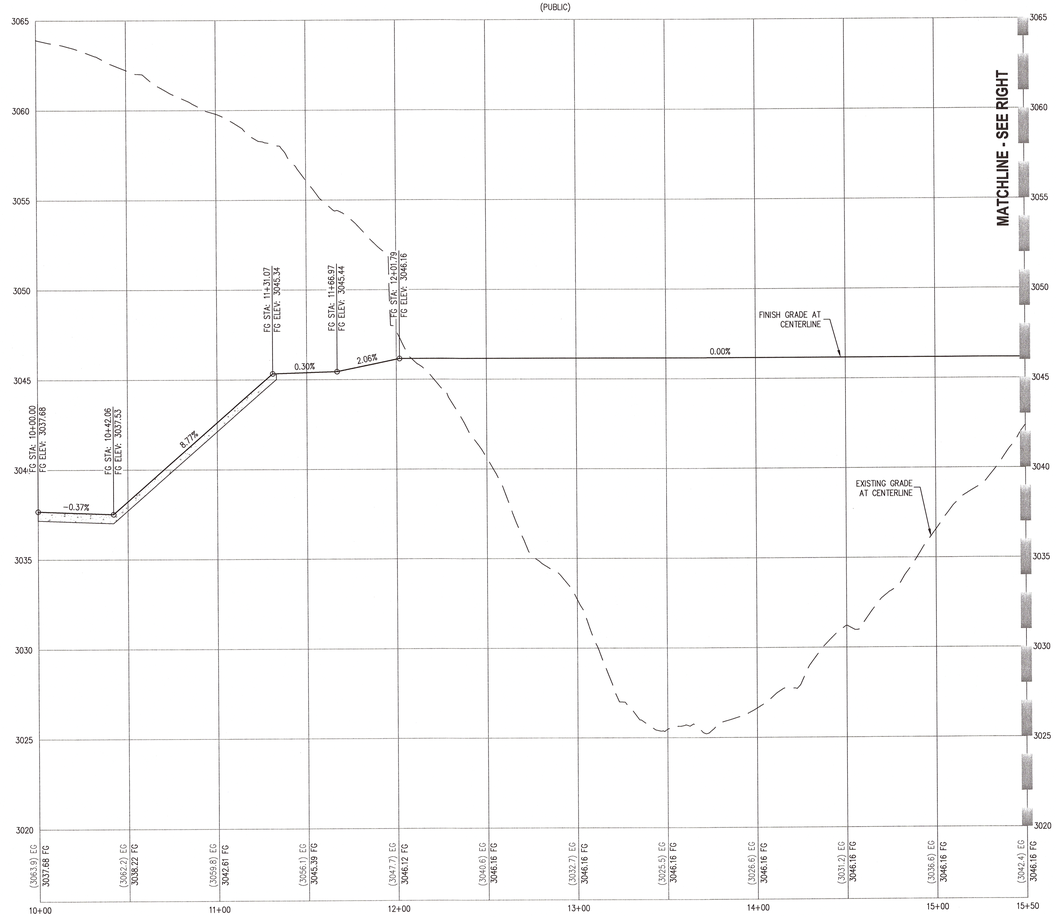
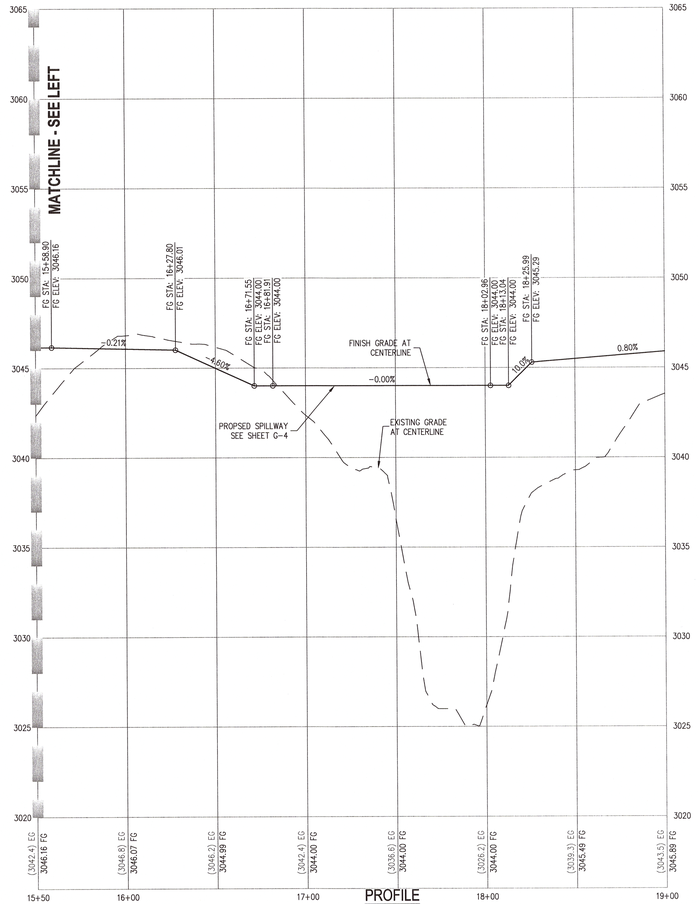


PROFILE
HOR. : 1"=40'
VERT. : 1"=4'



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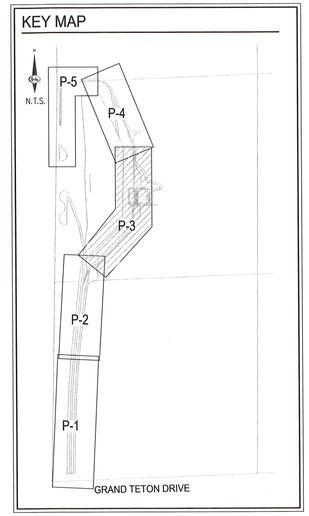

0 40 80
SCALE – 1"=40' FEET

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
ACCESS ROAD-SPILLWAY - PLAN AND PROFILE I

12
19S
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA – STEPHEN M. JONES – Exp. 6/30/15 – CIVIL – No. 019638 – PROFESSIONAL ENGINEER
8/30/14

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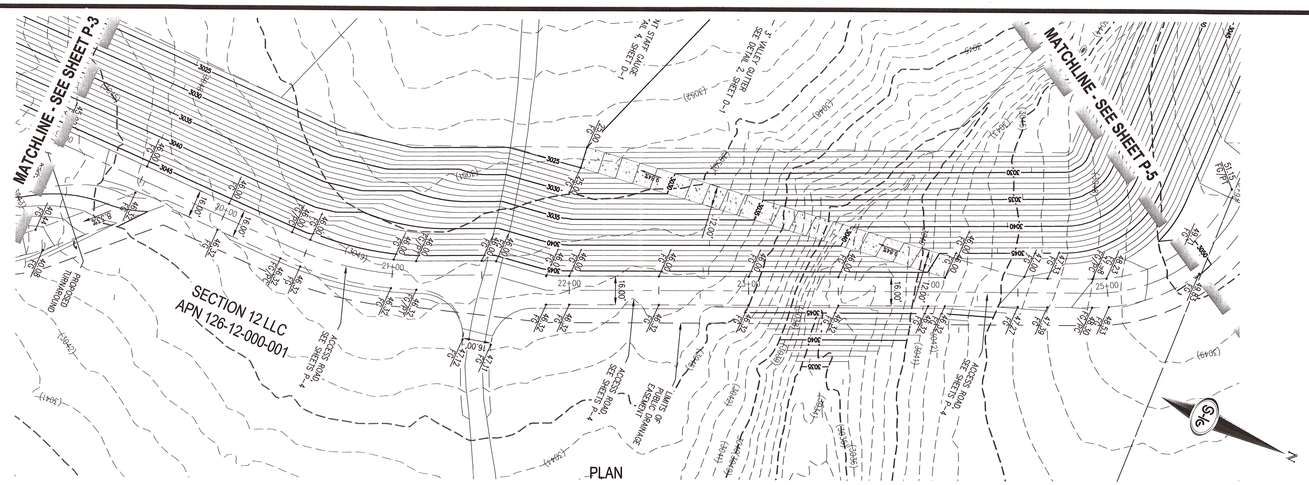

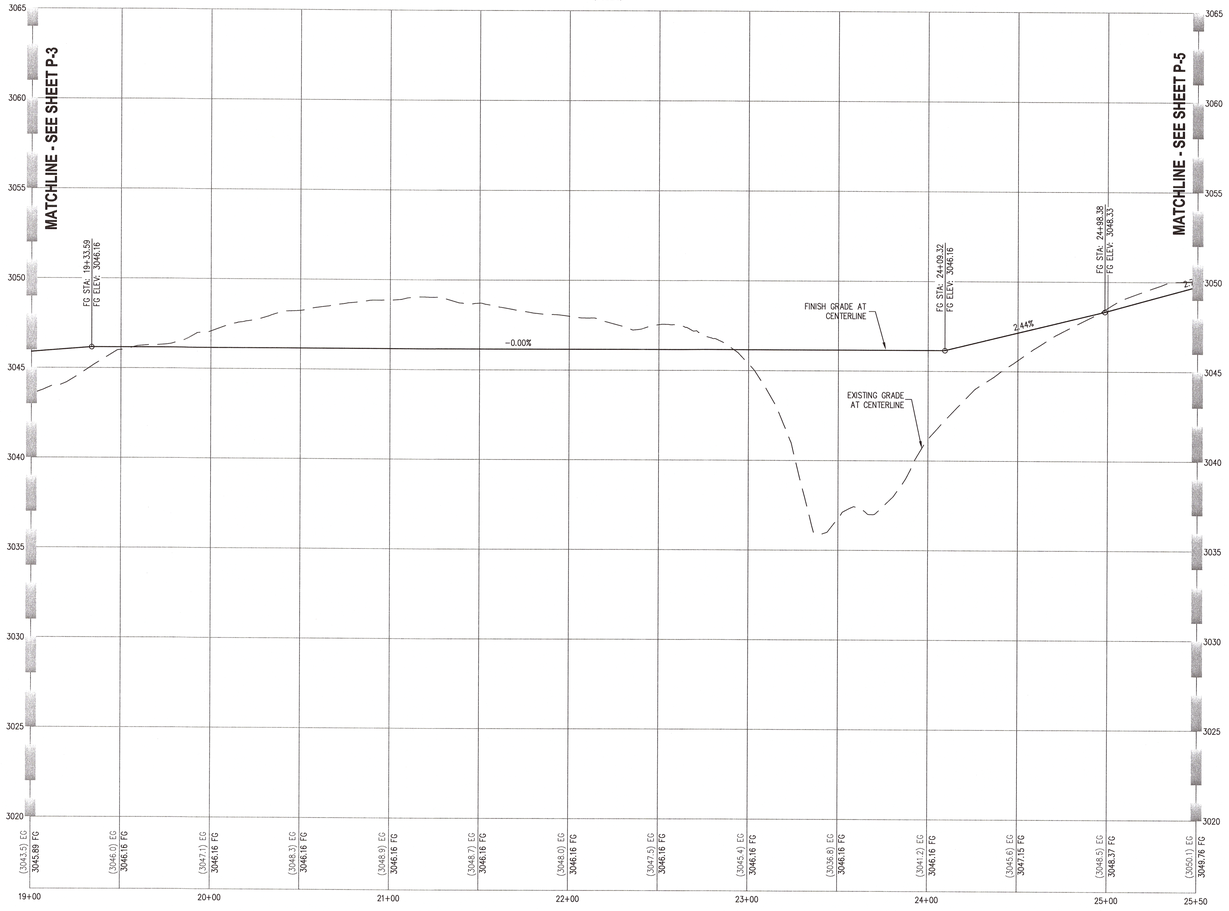

PROFILE

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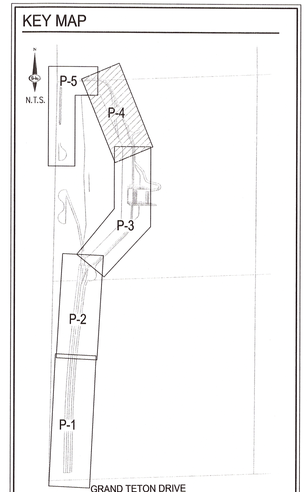

0 40 80
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
Call before you do UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA
COMPUTERIZED TRAFFIC SYSTEM

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600
AND
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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

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SKYE CANYON DETENTION BASIN 1
ACCESS ROAD - PLAN AND PROFILE II

12
19S
60E

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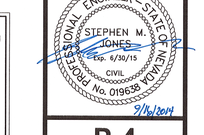
PROJECT NO.
OLY1401.004



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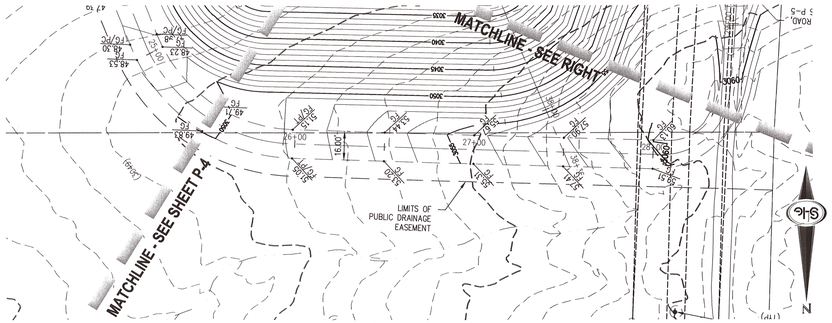

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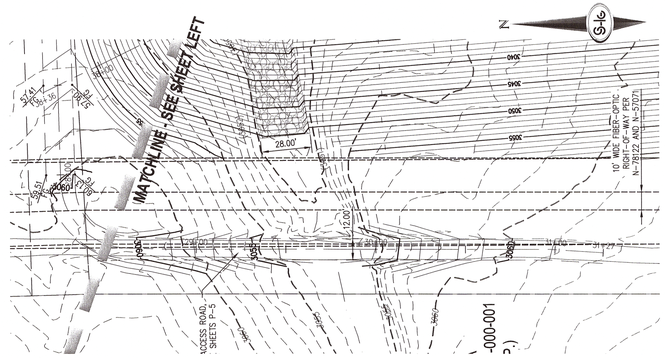

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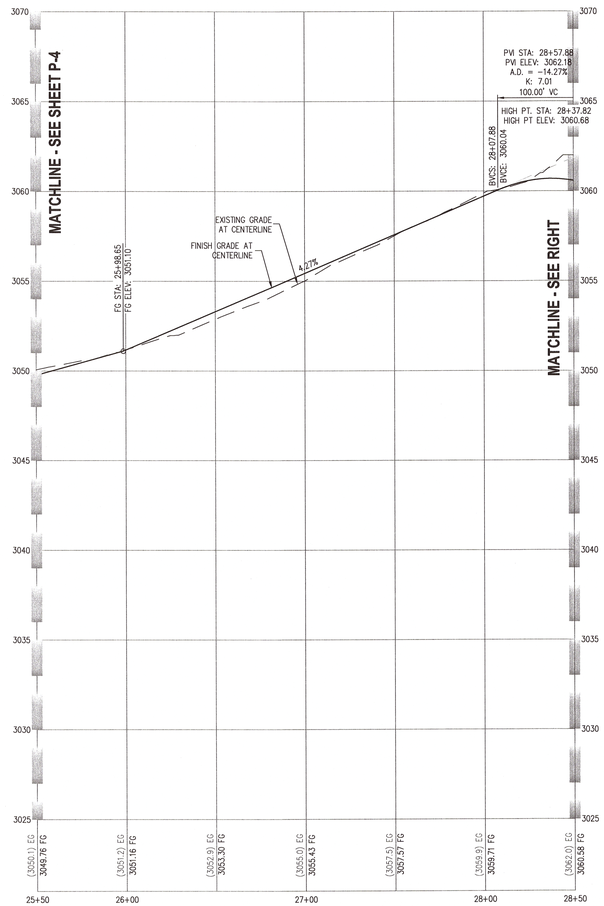
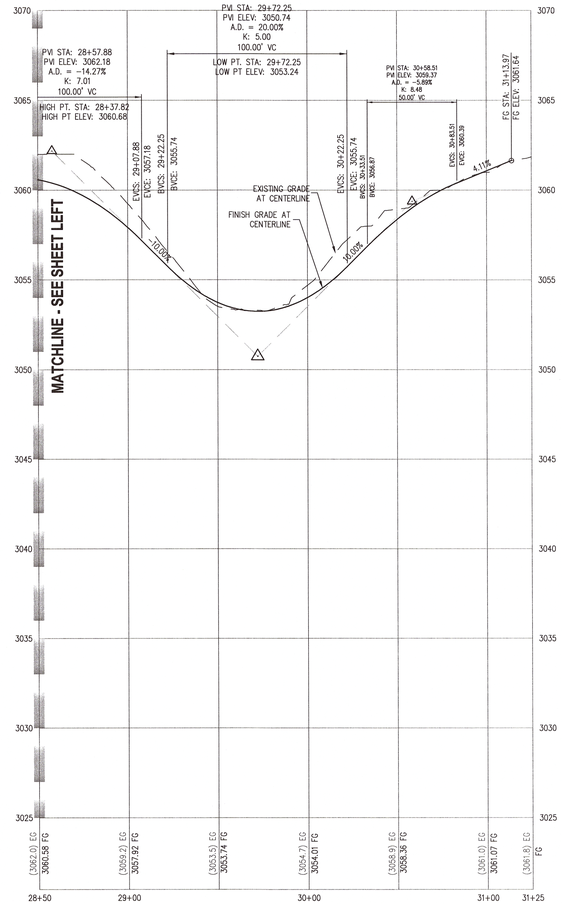


PROFILE
HOR. : 1"=40'
VERT. : 1"=4'



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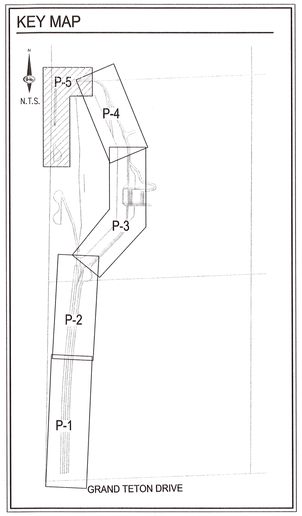

0 40 80
SCALE – 1"=40' FEET

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 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 THE CITY OF NORTH 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 TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY, REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, 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 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.
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LEGAL DESCRIPTION

BEING A PORTION OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST M.D.M., CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

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BASIS OF BEARING

NORTH 89°11'30" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS PER FILE 151, PAGE 14 OF SURVEYS, ON FILE IN THE COUNTY RECORDER'S OFFICE.

BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #269941, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

FLOOD ZONE

THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C1735E, 32003C1745E & 32003C1750E DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

FLOOD CERTIFICATION

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

STEPHEN M. JONES, P.E. 019638 DATE







SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
ACCESS ROAD - PLAN AND PROFILE III

12
19S
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
No. 019638
Exp. 6/30/15
CIVIL
9/10/2014

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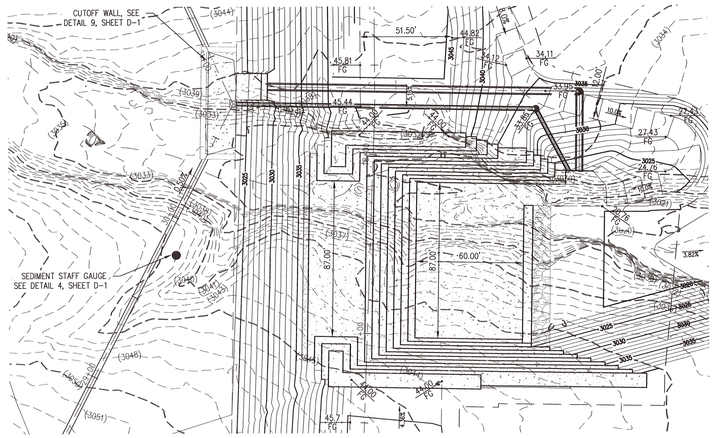
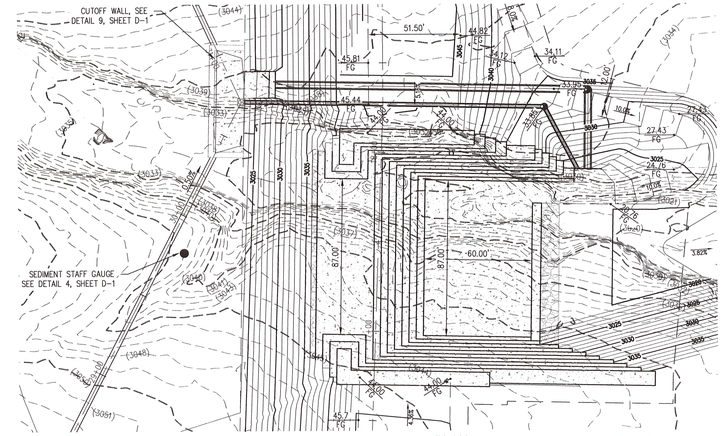


PLAN
(PUBLIC)



PLAN
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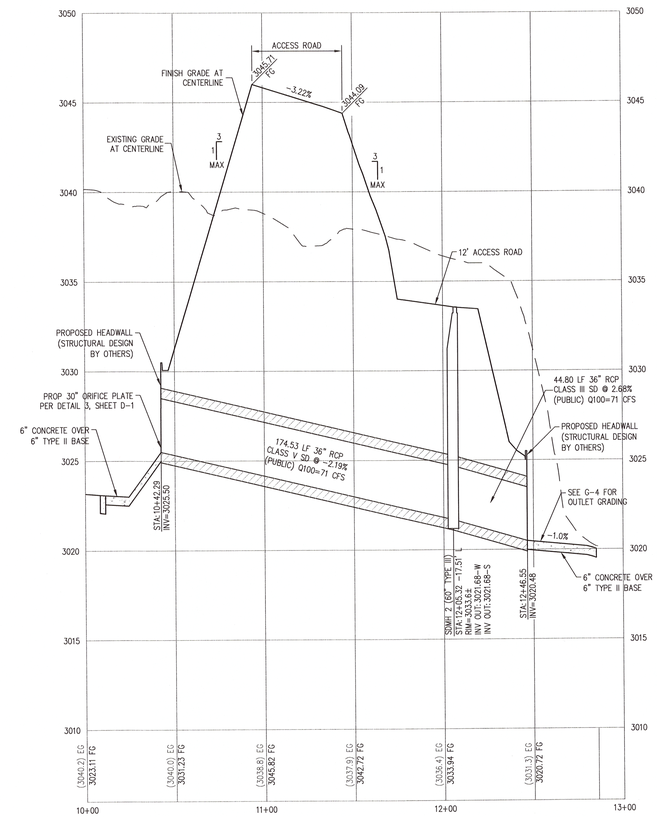

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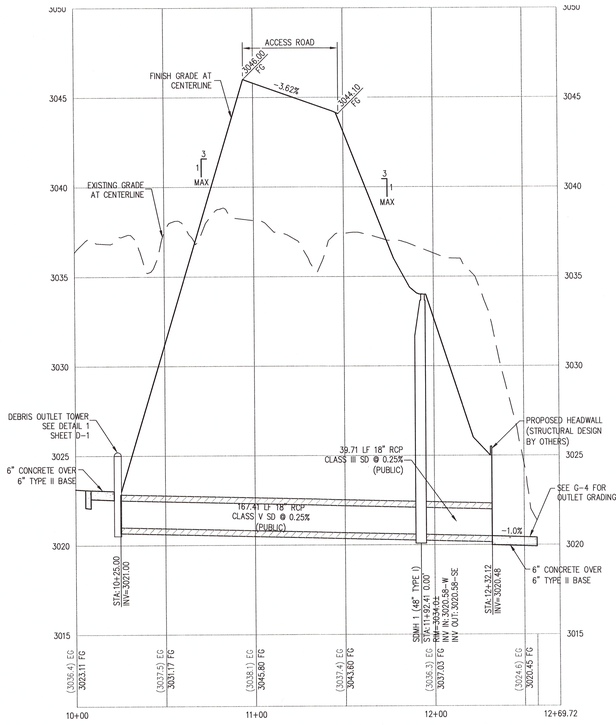

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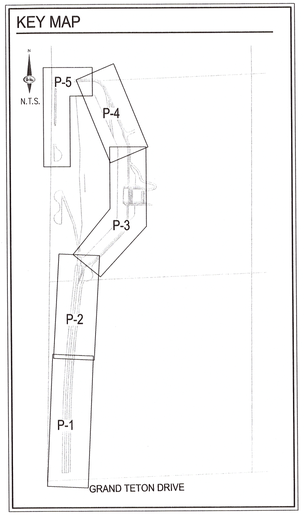

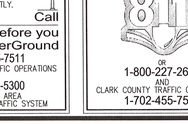

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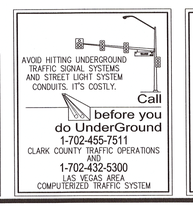

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
OUTLET PIPES - PLAN AND PROFILE

12
19S
60E

DATE: 8/30/14
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER STATE OF NEVADA
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9/16/2014

P-6
SHEET 21 OF 21

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