SKYE CANYON
DETENTION BASIN 1

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

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.

*NOTE:

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

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

BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

APPROVALS:

CITY OF LAS VEGAS – CITY ENGINEER — DATE

CITY OF LAS VEGAS – BUILDING DEPARTMENT — DATE

CITY OF LAS VEGAS – FIRE & RESCUE — DATE

N/A
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.

N/A
CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK — DATE

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

APPROVED FOR CONSTRUCTION

N/A
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER — DATE

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT — DATE

N/A
SOUTHWEST GAS — DATE

N/A
COX COMMUNICATIONS LAS VEGAS, INC. — DATE

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4	C-4	DRAINAGE WATERSHED MAP
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6	HC-2	HORIZONTAL CONTROL PLAN II
7	HC-3	HORIZONTAL CONTROL PLAN III
8	HC-4	HORIZONTAL CONTROL PLAN IV
9	OGD	OVERALL GRADING PLAN
10	G-1	GRADING PLAN I
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13	G-4	RCC STEPPED PMF SPILLWAY BLOWUP I
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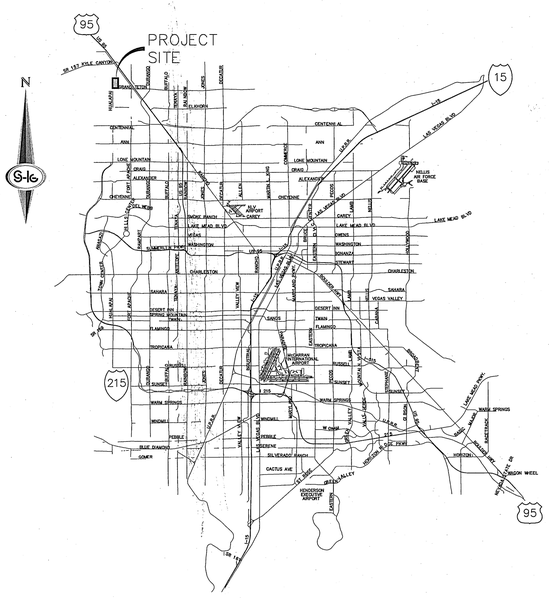

VICINITY MAP

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

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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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
COVER SHEET

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/4/2015

C-1
SHEET 1 OF 40

J:\Oly1401-004 db\1\dwg\Improv\detention basin 1\oly1401-004 cvr.dwg 10/22/2015 3:34 PM Christopher Sellman

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.

STORMWATER RUNOFF MANAGEMENT

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

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT ,MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN ORDINANCE MC 14.18 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.

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

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.

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

ABBREVIATIONS

AC	ASPHALTIC CONCRETE OR ACRE	GV	GATE VALVE	R	RADIUS
AGG	AGGREGATE BASE	HDPE	HIGH DENSITY POLYETHYLENE	RCB	REINFORCED CONCRETE BOX
APN	ASSESSORS PARCEL NUMBER	HOA	HOME OWNERS ASSOCIATION	RCC	ROLLER COMPACTED CEMENT
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
DE	DRAINAGE EASEMENT	OD	OUTSIDE DIAMETER OR OVERALL DIMENSION	SY	SQUARE YARD
DIA, ϕ	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	P 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
- EXISTING CURB AND GUTTER WITH RIGHT-OF-WAY AT BACK OF CURB
- 18" RCP SD — STORM DRAIN PIPE W/ MANHOLE
- GRADE BREAK LINE
- FLOWLINE
- 00.00 TC — PROPOSED ELEVATION
- (00.00) TC — EXISTING ELEVATION
- 2600 — EXISTING CONTOUR (5-FT)
- 2601 — EXISTING CONTOUR (1-FT)
- 2600 — PROPOSED CONTOUR (5-FT)
- PROPOSED CONTOUR (1-FT)
- BLOCK & CABLE FENCING
- PROPOSED RIPRAP
- PROPOSED CONCRETE
- PROPOSED SOIL CEMENT
- PROPOSED TYPE II AGGREGATE BASE
- STRUCTURAL FILL
- SELECTED BACKFILL
- EXISTING SOIL
- RCC STEPS

NOTE

SPECIAL INSPECTION AND CONSTRUCTION MANAGEMENT REQUIRED FOR ALL STRUCTURALLY DESIGNED IMPROVEMENTS, RCC STEPPED SPILLWAY, AND PROPOSED EMBANKMENT/DAM CONSTRUCTION.

ALL DISTURBED SOILS SHALL BE STABILIZED AS DIRECTED BY SPECIAL PROVISIONS.

BONDABLE QUANTITIES

	DRAINAGE		PRIVATE	PUBLIC
1.	18" RCP SD	LF	–	22
2.	60" RCP SD	LF	–	316
3.	DEBRIS TOWER	EA	–	1
4.	OUTLET STRUCTURE W/ DEBRIS RACK	EA	–	1
5.	RCC STEPPED PMF SPILLWAY	EA	–	1
6.	TYPE I STILLING BASIN	EA	–	1
7.	TYPE III STILLING BASIN	EA	–	1
8.	RIPRAP (D50=12")	CY	–	2,701
9.	BASIN DEPTH GAUGE	EA	–	–
10.	6' U-CHANNEL	LF	–	1,111
11.	HEADWALL STRUCTURE	EA	–	2
12.	60" TYPE III MANHOLE PER CCAUSD NO. 406	EA	–	1
13.	CONCRETE CUT-OFF WALL	LF	–	92
14.	TYPE II BASE	CY	–	2,789
15.	DRAINAGE EASEMENT CONCRETE	SF	–	26,991
16.	CAST IN PLACE STRUCTURE	CY	–	1,377
17.	FLOOD MONITORING STATION	EA	–	1
18.	BLOCK AND CABLE FENCING	LF	–	6,870
19.	SEDIMENT STAFF	EA	–	3
20.	LOW STRENGTH SOIL CEMENT	CY	–	5,800
21.	HIGH STRENGTH SOIL CEMENT (RCC SPILLWAY)	CY	–	3,000
22.	POST AND CABLE FENCING	LF	–	80
23.	RETAINING WALL	LF	–	208
24.	EXCAVATION & EMBANKMENT	CY	–	335,093

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 5LV9013NES, 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 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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

NOTES SHEET

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

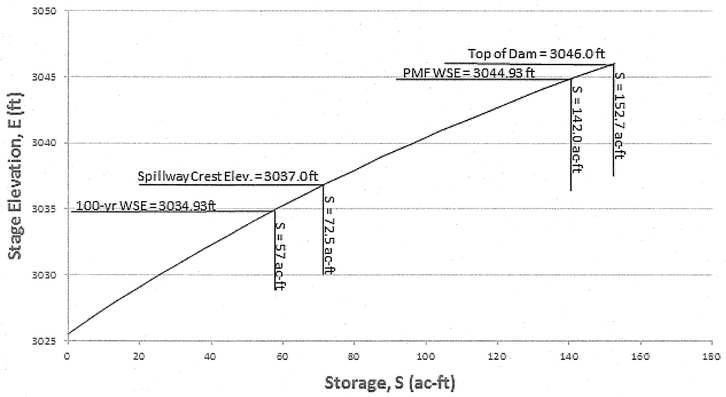
PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp: 6/30/17
CIVIL
No. 019638
10/22/2015

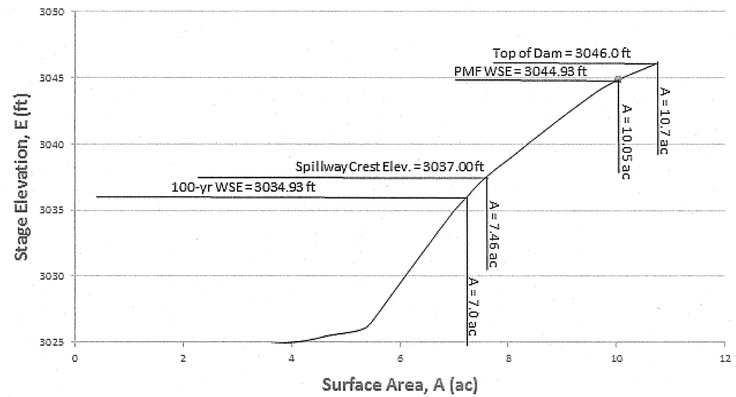
C-2
SHEET 2 OF 40

I:\oly1401-004 db\1dwg\improv\detention basin 1\oly1401-004 cvr.dwg 10/22/2015 3:34 PM Christopher Soliman

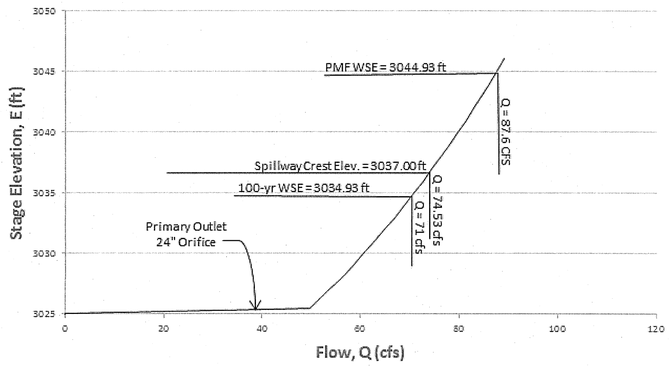
DETENTION BASIN 1
STAGE - STORAGE



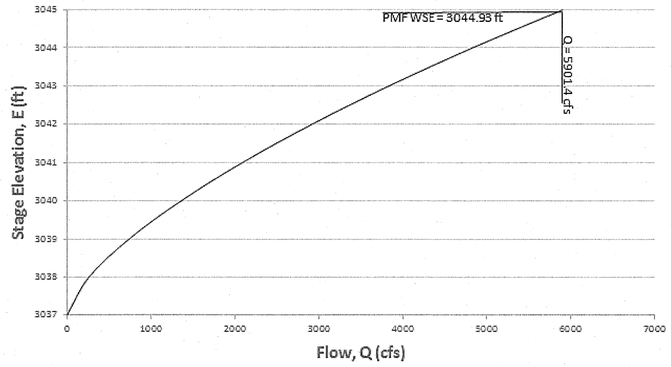
DETENTION BASIN 1
STAGE - SURFACE AREA



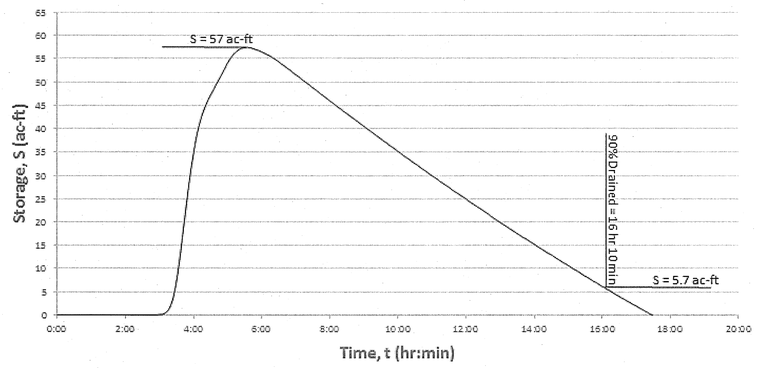
DETENTION BASIN 1
OUTLET STAGE - DISCHARGE



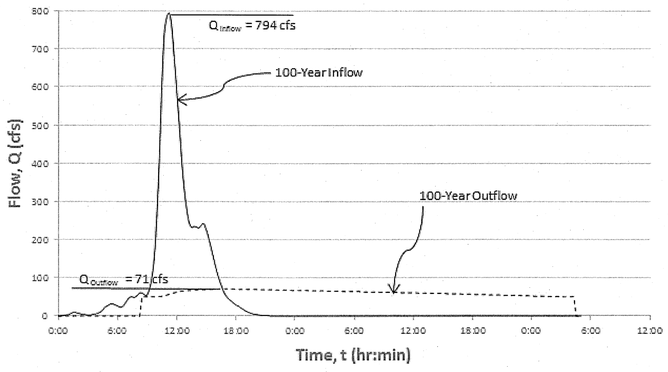
DETENTION BASIN 1
EMERGENCY SPILLWAY STAGE -DISCHARGE



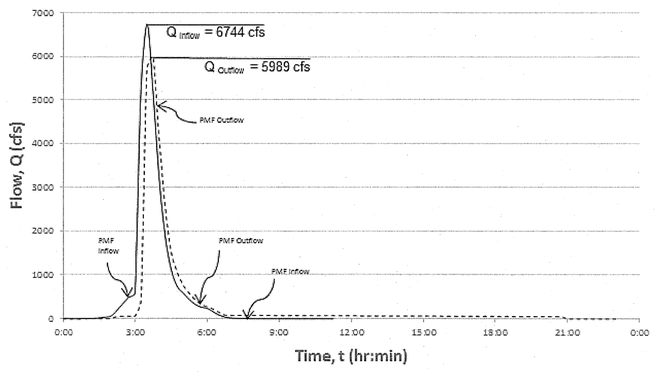
DETENTION BASIN 1
100-YR DRAIN TIME



DETENTION BASIN 1
100-YR INFLOW - OUTFLOW HYDROGRAPHS



DETENTION BASIN 1
PMF INFLOW - OUTFLOW HYDROGRAPHS



Summary of Detention Basin Performance Parameters

Parameter	Value
100-Yr Inflow	794 cfs
100-Yr Outflow	71 cfs
Outlet Orifice	24-inch
Total Storage Volume	62.9 ac-ft
100-Yr Volume	57 ac-ft
Debris Volume	5.9 ac-ft
100-Yr Water Surface	3034.9-ft
PMF Inflow	6,744 cfs
PMF Outflow	5,989 cfs
PMF Spillway Elevation	3037.0-ft
PMF Spillway Length	87-ft
PMF Water Surface Elevation	3044.93-ft

SLATER HANIFAN GROUP
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NO. | DESCRIPTION | DATE | BY | APP. DATE | APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
PERFORMANCE CURVES

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER — STATE OF NEVADA — STEPHEN M. JONES — Exp. 6/30/17 — CIVIL — No. 019638 — 10/26/2015

C-3
SHEET 3 OF 40

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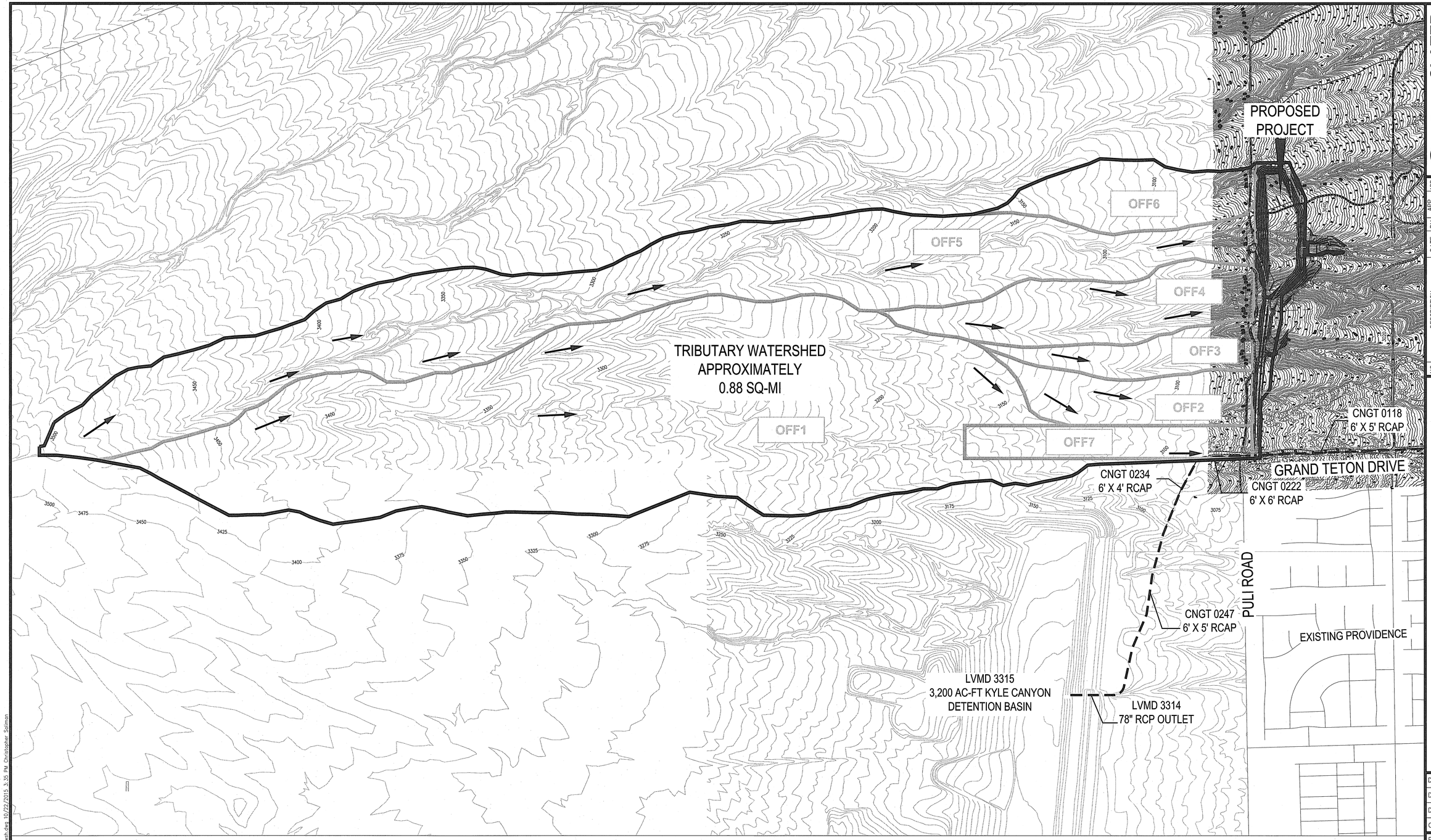

LEGEND

- TRIBUTARY AREA BOUNDARY
- FLOW DIRECTION
- EXISTING FACILITY
- WATERSHED SUBBASINS

N

0 400 800

SCALE – 1"=400' FEET

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

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
DRAINAGE WATERSHED MAP

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/22/2015

C-4
SHEET 4 OF 40

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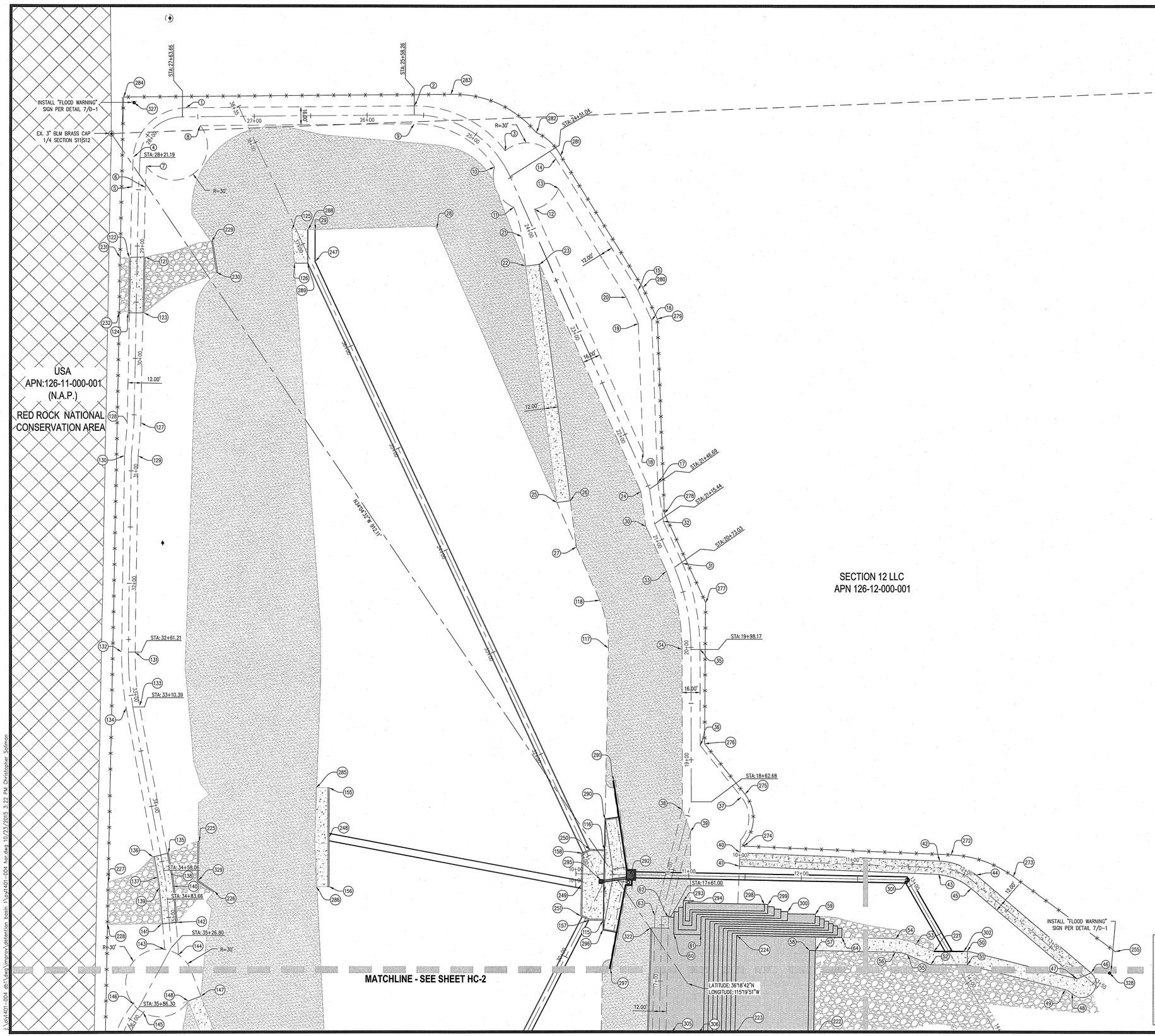
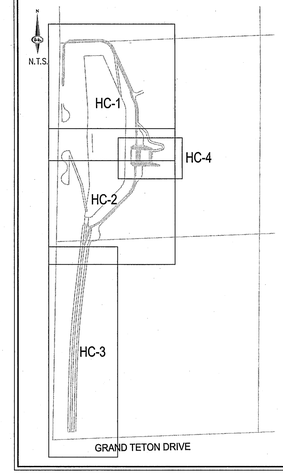


KEY MAP



BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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

N

0 40 80
SCALE – 1"=40' FEET

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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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
HORIZONTAL CONTROL PLAN I

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019658
10/22/2015

HC-1
SHEET 5 OF 40

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MATCHLINE - SEE SHEET HC-1

RED ROCK NATIONAL CONSERVATION AREA

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

SECTION 12 LLC
APN 126-12-000-001

MAINTENANCE STAGING AREA

MATCHLINE - SEE SHEET HC-3

STA: 34+58.06
STA: 34+83.66
STA: 35+26.80
STA: 35+86.30
STA: 36+04.79
STA: 36+45.19
STA: 36+85.19
STA: 37+46.48
STA: 37+66.90
STA: 38+48.31
STA: 41+43.95
STA: 41+51.99
STA: 42+35.67
STA: 42+72.56
STA: 43+22.09
STA: 25+08.08
STA: 17+61.00
STA: 16+39.52
STA: 15+06.38
STA: 14+17.53
STA: 11+71.98
STA: 10+46.07

LATITUDE: 36°18'42"N
LONGITUDE: 115°19'51"W

INSTALL "FLOOD WARNING" SIGN PER DETAIL 7/D-1

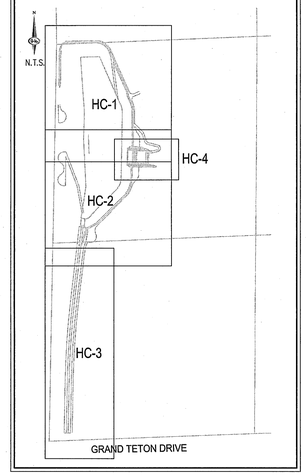
INSTALL "FLOOD WARNING" SIGN PER DETAIL 7/D-1

FUTURE VAC-42230 (SEE)

EXISTING BLM GRANT N-7772

R=30'

KEY MAP



BASIS OF BEARING

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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

N

0 40 80
SCALE – 1"=40' FEET

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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

HORIZONTAL CONTROL PLAN II

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

NATIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019658
10/24/2015

HC-2
SHEET 6 OF 40

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RED ROCK NATIONAL CONSERVATION AREA

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

SECTION 12 LLC
APN 126-12-000-001

MATCHLINE - SEE SHEET HC-2

MAINTENANCE STAGING AREA

MATCHLINE - SEE SHEET RIGHT

MATCHLINE - SEE SHEET LEFT

SECTION 12 LLC
APN 126-12-000-001

USA
APN 126-14-000-001
(N.A.P.)

EXISTING
CLIFFS EDGE POD 201 & 203 (N.A.P.)

GRAND TETON DRIVE
(PUBLIC)

INSTALL "FLOOD WARNING" SIGN PER DETAIL 7/D-1 & NV ENERGY SIGN PER DETAIL 11/D-1

INSTALL "FLOOD WARNING" SIGN PER DETAIL 7/D-1

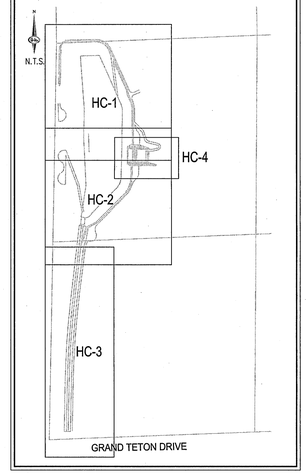
FUTURE VAC-42250 (350')

EXISTING BLM GRANT N-7772

FUTURE VAC-42250

STA: 41+43.95
STA: 41+51.99
STA: 42+35.67
STA: 42+72.56
STA: 43+22.09
STA: 44+02.34
STA: 44+68.03
STA: 45+22.80
STA: 46+97.03
STA: 47+38.14
STA: 48+53.25
STA: 48+90.33
STA: 10+46.07
STA: 13+79.61

KEY MAP



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BENCHMARK

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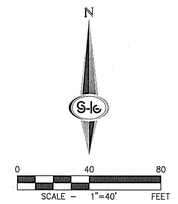
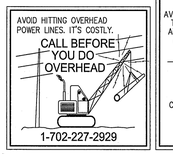
ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88 DATUM
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003





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

HORIZONTAL CONTROL PLAN III

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019658
10/6/2015

HC-3
SHEET 7 OF 40

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LINE TABLE		
LINE	BEARING	LENGTH
L48	S1°03'48"W	379.61
L46	S6°31'08"W	557.18
L45	S27°09'01"W	562.93
L44	N24°58'06"W	764.42
L43	S0°46'03"W	609.23
L41	S28°21'28"W	115.10
L39	S0°38'37"W	192.71
L37	S23°48'59"E	65.69
L35	S30°16'35"W	49.54
L33	S5°24'53"W	83.68
L31	S0°00'00"E	295.64
L28	S1°03'48"W	40.00
L26	S28°36'31"W	59.50
L25	S4°56'03"E	53.88
L23	S10°41'46"E	152.48
L21	S0°49'53"W	174.66
L20	S4°45'14"W	29.68
L19	S1°03'48"W	209.34
L18	S2°42'09"W	26.33
L16	S89°26'32"W	205.40

LINE TABLE		
LINE	BEARING	LENGTH
L14	N23°46'47"W	25.01
L13	N23°46'47"W	57.10
L12	N24°03'21"W	222.24
L11	N8°25'14"W	31.25
L10	N24°31'22"W	42.41
L8	N0°05'11"W	135.49
L7	N14°23'35"E	105.23
L6	N1°13'33"E	117.93
L5	N5°28'31"W	133.15
L3	N44°48'19"E	245.49
L1	N21°23'11"E	46.07

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C17	571.29'	6000.00'	5°27'20"	285.86'
C16	37.08'	77.00'	27°35'24"	18.91'
C15	41.11'	85.00'	27°42'50"	20.97'
C14	36.29'	85.00'	24°27'36"	18.42'
C13	80.25'	85.00'	54°05'34"	43.40'
C12	36.88'	85.00'	24°51'42"	18.74'
C11	8.03'	84.95'	5°25'05"	4.02'
C10	81.41'	85.00'	54°52'31"	44.13'
C9	81.71'	85.03'	55°03'29"	44.32'
C8	58.90'	85.00'	39°41'59"	30.69'
C7	10.06'	100.00'	5°45'43"	5.03'
C6	49.18'	279.16'	10°05'39"	24.65'
C5	57.53'	38.00'	86°44'23"	35.90'
C4	107.23'	92.00'	66°46'41"	60.64'
C3	74.87'	189.26'	22°39'53"	37.93'
C2	88.95'	179.10'	28°27'21"	45.41'
C1	125.87'	308.00'	23°24'54"	63.83'

POINT TABLE		
POINT	NORTHING	EASTING
1	821862.4024	730028.4117
2	821864.3728	730230.7743
3	821824.5794	730311.5963
4	821818.4496	729981.8794
5	821792.0637	729980.6339
6	821791.6694	729992.6287
7	821810.3700	729993.5114
8	821846.5279	730041.3815
9	821848.3736	730230.9301
10	821810.0230	730302.1564
11	821774.0751	730319.2142
12	821772.4206	730337.6174
13	821790.7796	730358.9230
14	821817.4991	730356.4589
15	821700.3228	730429.2077
16	821673.5636	730441.5962
17	821529.3502	730446.8415
18	821555.9512	730433.8661
19	821670.7012	730429.6977
20	821693.9933	730419.0128
21	821748.1037	730326.3331
22	821721.7132	730329.8119
23	821723.0950	730341.7315
24	821521.1498	730431.8811
25	821511.5099	730357.5031
26	821512.9157	730369.4216
27	821471.9579	730374.8176
28	821755.3590	730250.7545
29	821754.1260	730143.3710
30	821490.1965	730436.4632
31	821457.3149	730469.0502
32	821494.7783	730451.9593
33	821450.4966	730454.5744
34	821380.9857	730468.5380
35	821381.0099	730484.5380
36	821295.5104	730484.6671
37	821249.7961	730521.2377
38	821238.5127	730468.7531
39	821219.0833	730476.1558
40	821200.0746	730520.0147
41	821188.0848	730519.5221
42	821192.8928	730697.4173
43	821181.3420	730696.5655
44	821180.2975	730729.6240
45	821168.4749	730725.0004
46	821093.8408	730831.2093
47	821088.4452	730819.0341
48	821075.4698	730814.2820
49	821078.7369	730808.5188
50	821113.0514	730721.6649

POINT TABLE		
POINT	NORTHING	EASTING
51	821100.6639	730721.7530
52	821100.6639	730689.3764
53	821119.4357	730676.5958
54	821123.9847	730658.2834
55	821109.6630	730668.7122
56	821111.9868	730658.0581
57	821113.3211	730586.9971
58	821113.4146	730582.0179
59	821145.4524	730586.9771
60	821127.6846	730461.2345
61	821127.2343	730485.2203
62	821142.7643	730456.5703
63	821144.4018	730444.6026
64	821125.0000	730610.5975
65	821019.2365	730644.9524
66	821011.2428	730644.8023
67	821010.9759	730552.2208
68	821025.9079	730454.0696
69	821025.4722	730442.0575
70	821010.7000	730467.1665
71	820903.1910	730465.8325
72	820974.4848	730512.7899
73	820962.4848	730512.7899
74	820974.4848	730571.9304
75	820962.4848	730571.9304
76	820981.4673	730525.7710
77	820898.8916	730454.1907
78	820928.5610	730495.5659
79	820913.7434	730483.1843
80	820811.7206	730421.6579
81	820822.9958	730410.3058
82	820914.8456	730596.1968
83	820907.7900	730605.9034
84	820790.8418	730520.8944
85	820761.9298	730485.0431
86	820752.5037	730492.5259
87	820663.5352	730360.9507
88	820673.4760	730354.2289
89	820460.7382	730236.5034
90	820462.2291	730224.5964
91	820424.6034	730231.9790
92	820402.2802	730217.0902
93	820634.3486	730245.4867
94	820639.5962	730228.1577
95	820616.4780	730186.6508
96	820623.0535	730176.6127
97	820610.4073	730168.3288
98	820544.5920	730170.4766
99	820532.3345	730178.9951
100	820824.0993	730322.6532

POINT TABLE		
POINT	NORTHING	EASTING
101	820779.0572	730278.8030
102	820676.3438	730178.8076
103	820667.8266	730159.8656
104	820863.2467	730458.6485
105	820519.6885	730174.0437
106	820511.9388	730174.2334
107	820495.3083	730167.7200
108	820489.7509	730162.3185
109	820519.2087	730160.5359
110	820496.7782	730151.7555
111	820472.5444	730155.5808
112	820477.1331	730144.0621
113	820867.3433	730364.7529
114	820940.7910	730395.1102
115	821139.8483	730398.8045
116	821202.5905	730399.9689
117	821382.1839	730403.3020
118	821424.8620	730395.4391
119	820173.2778	730118.1103
120	819542.6740	730072.9073
121	821729.7170	729992.5375
122	821729.2296	729978.5262
123	821679.8437	729991.5533
124	821679.8408	729977.5273
125	821754.1210	730122.7240
126	821724.0022	730124.7289
127	821582.2569	729988.7419
128	821582.8661	729976.7511
129	821552.8982	729986.2863
130	821553.0723	729974.2876
131	821378.2776	729983.7527
132	821378.4004	729971.7532
133	821330.4515	729987.6868
134	821328.3214	729975.8769
135	821199.7274	730013.3957
136	821196.1997	729999.8145
137	821178.4471	730004.1853
138	821180.6743	730015.9768
139	821169.0858	730005.4702
140	821170.1179	730017.4257
141	821136.8322	730007.2509
142	821138.1659	730021.1879
143	821114.3074	730010.1992
144	821109.5649	730022.3784
145	821058.4618	729991.0335
146	821065.7635	729983.3342
147	821072.9044	730042.2432
148	821068.6324	730031.0294
149	821029.7905	730023.7363
150	820889.7233	730112.0271

POINT TABLE		
POINT	NORTHING	EASTING
151	820886.5047	730100.4120
152	820750.4447	730138.4062
153	820747.8329	730125.1678
154	820758.9586	730182.6887
155	821257.8402	730155.8099
156	821169.8402	730155.8792
157	821140.0759	730386.0045
158	821199.7356	730379.9124
159	821009.6552	729972.9870
160	821009.8779	729960.9890
161	820969.7515	729972.2464
162	820969.7903	729960.2450
163	820904.8596	730005.8017
164	820895.0451	729998.8970
165	820830.4310	730044.4438
166	820830.4305	730032.4438
167	820724.0185	730045.4446
168	820724.2131	730031.4431
169	820657.4726	730031.3060
170	820657.2221	730045.4529
171	820534.7888	730032.4438
172	820534.7888	730044.4438
173	820527.3335	730032.0914
174	820526.2012	730044.0378
175	820442.8900	730036.1412
176	820444.0223	730024.1947
177	820411.6474	730013.7719
178	820405.5973	730024.1351
179	820362.8175	729999.1603
180	820368.8675	729988.7971
181	820291.0872	729995.1123
182	820286.2415	729984.1342
183	820237.3648	730019.8136
184	820231.7015	730006.9830
185	820226.1416	730010.6619
186	820230.9873	730021.6401
187	820193.3534	730017.3843
188	820193.2186	730029.3835
189	820000.6572	730015.2195
190	820000.5224	730027.2187
191	819964.0217	730005.7445
192	819958.3220	730016.3045
193	819857.0318	729961.6338
194	819862.7315	729951.0738
195	819824.2598	729953.1202
196	819824.4205	729941.1213
197	819620.8335	729951.3968
198	819620.3461	729937.3855
199	819516.7434	729935.9772
200	819516.7405	729950.0033

POINT TABLE		
POINT	NORTHING	EASTING
201	819243.9934	730028.3569
202	819243.7708	730040.3548
203	819398.9603	730016.2306
204	819398.1809	730058.2234
205	819548.3814	730019.0719
206	819542.8967	730060.9093
207	820118.7787	730056.8680
208	820174.7686	730106.2032
209	820592.7921	730111.0322
210	820591.6396	730149.7428
211	820589.8698	730137.8740
212	820623.8686	730123.1386
213	820621.0304	730147.9769
214	820611.0951	730146.8417
215	820649.1806	730151.1936
216	820654.4606	730157.8360
217	820671.3927	730128.5690
218	820674.6644	730126.6551
219	820709.3622	730132.0356
220	820691.4588	730152.0060
221	821112.6639	730691.8760
222	821036.3443	730585.5702
223	821039.6588	730515.5816
224	821126.6335	730517.2147
225	821210.1957	730040.5060
226	821165.7089	730054.0645
227	821173.8943	729960.1589
228	821136.5671	729959.4661
229	821743.4780	730051.4251
230	821715.9220	730055.9056
231	821729.3925	729970.4692
232	821680.0037	729969.4703
233	820711.6116	729951.5787
234	820686.3121	729951.1091
235	820648.0152	729950.3983
236	820623.5032	729949.9434
237	820732.3073	730089.0556
238	820708.6032	730092.8126
239	820229.2709	730068.4871
240	820191.5165	730064.1730
241	820190.8190	729941.9125
242	820148.7746	729941.1322
243	819620.4246	730020.8414
244	819516.6583	730018.4686
245	819620.4585	729931.3264
246	819516.8654	729929.4036
247	821725.7324	730143.3707
248	821213.8402	730155.8445
249	821171.3248	730379.3852
250	821203.1051	730386.9762

POINT TABLE		
POINT	NORTHING	EASTING
251	821143.7452	730378.8733
252	820591.0892	730125.9353
253	821012.2282	730481.8594
254	821011.6961	730513.3363
255	821112.6252	730852.6874
256	821020.0208	730852.6874
257	821020.0208	730676.5688
258	820999.5473	730627.2565
259	820902.6698	730627.2565
260	820793.1375	730534.7563
261	820774.7415	730558.9616
262	820732.8518	730549.7405
263	820727.9630	730519.8763
264	820729.9792	730480.7585
265	820656.9127	730374.1023
266	820605.1226	730374.1023
267	820518.4060	730299.6974
268	820526.6135	730510.9786
269	820060.3323	730115.1161
270	819542.4885	730082.9056
271	819320.4539	730078.7845
272	821198.5084	730707.0945
273	821179.1505	730762.2368
274	821206.0737	730523.0382
275	821252.2949	730524.3612
276	821297.0407	730488.5653
277	821422.6163	730489.4752
278	821501.8972	730452.8434
279	821674.7510	730446.5563
280	821702.7006	730433.6167
281	821820.1364	730360.7068
282	821840.8398	730339.1041
283	821874.6885	730263.1326
284	821871.8637	729973.1135
285	821257.8310	730144.1330
286	821169.8310	730144.2302
287	820884.2605	730159.1566
288	821754.1260	730136.8710
289	821724.2933	730136.8707
290	821229.8243	730400.5600
291	821264.1347	730408.2465
292	821180.1943	730422.3742
293	821157.5292	730469.7963
294	821157.4358	730474.7681
295	821176.0846	730396.8098
296	821131.5869	730398.6428
297	821097.0224	730405.1417
298	821154.1778	730541.7461
299	821154.1215	730544.7456
300	821147.7846	730562.6298

POINT TABLE		
POINT	NORTHING	EASTING
301	821175.9828	730668.6964
302	821112.6639	730718.4329
303	820695.3362	730150.0611
304	820535.2441	730158.8263
305	821040.6900	730459.6011
306	821040.2396	730483.5868
307	821028.5043	730469.3740
308	821028.4294	730473.3633
309	821012.5272	730469.0740
310	821010.5916	730472.0109
311	821011.4279	730526.3355
312	821011.0223	730549.2212
313	820370.0802	730256.3076
314	820389.0292	730275.3059
315	820210.3041	730122.7463
316	820198.2959	730121.2428
317	819214.6914	729923.7951
318	819215.1615	729938.9597
319	819218.8468	730033.8912
320	819219.7810	730058.6431
321	819220.4711	730076.9288

SLATER HANFAN 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

HORIZONTAL CONTROL PLAN IV

12 19S 60E

DATE: 10/22/15

DRAFTER: CS

DESIGNER: BM

CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019658
10/22/2015

HC-4
SHEET 8 OF 40

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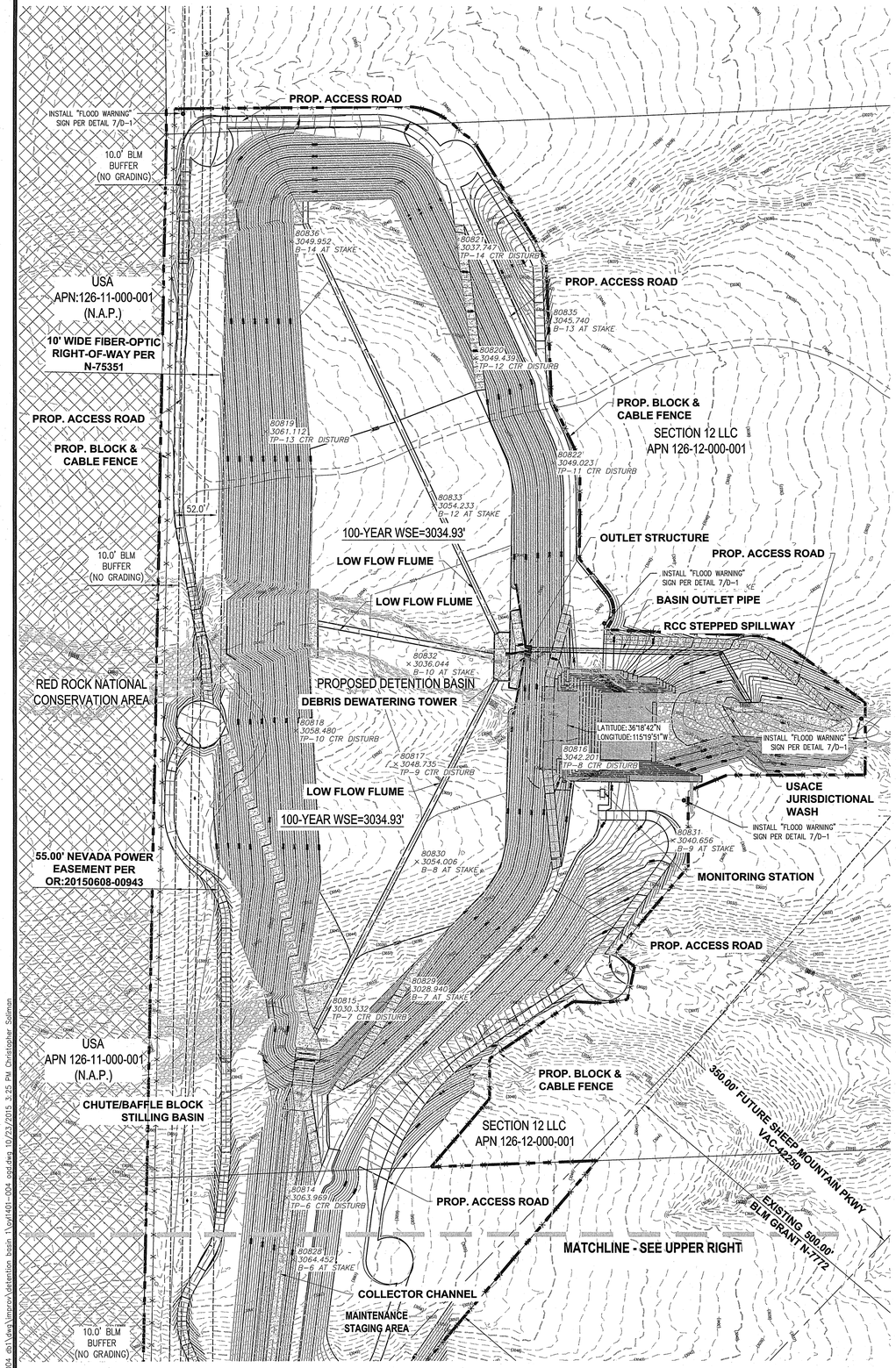
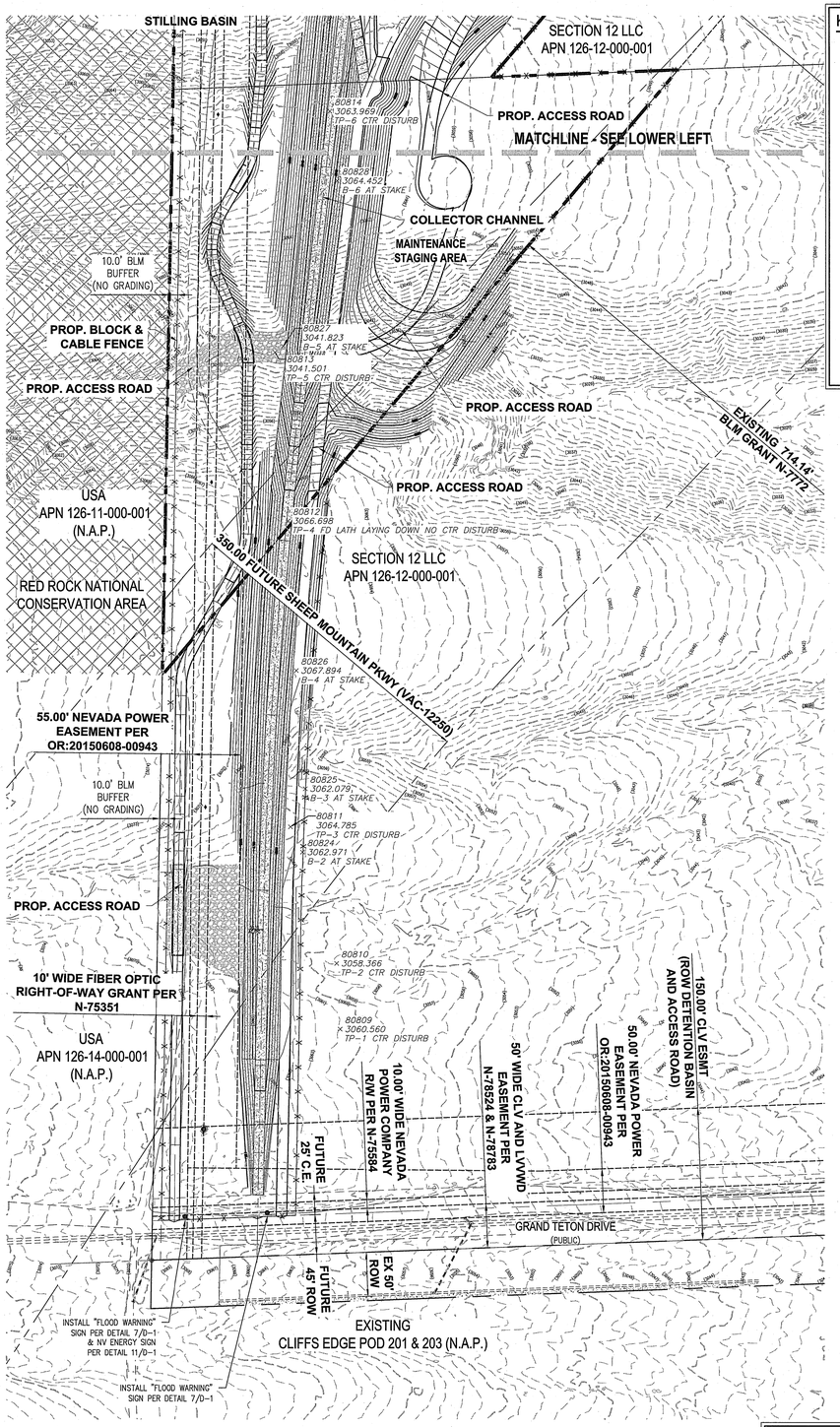
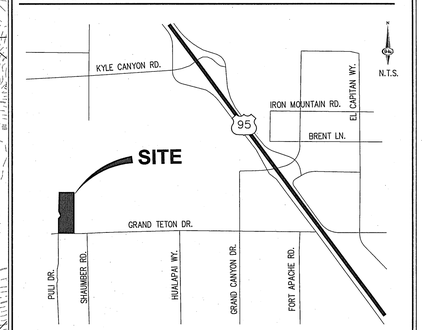




KEY MAP



N

0 80 160

SCALE = 1"=80' FEET

LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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 FLOODPLAN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1750E, DATED SEPTEMBER 27, 2002.

DRAINAGE COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS #4698 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

STEPHEN M. JONES, P.E. 019638 — DATE 10/26/2015

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.

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

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

OVERALL GRADING PLAN

12S 59E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER — STATE OF NEVADA — STEPHEN M. JONES — Exp. 6/30/17 — CIVIL — No. 019638 — 10/26/2015

OGD

SHEET 9 OF 40

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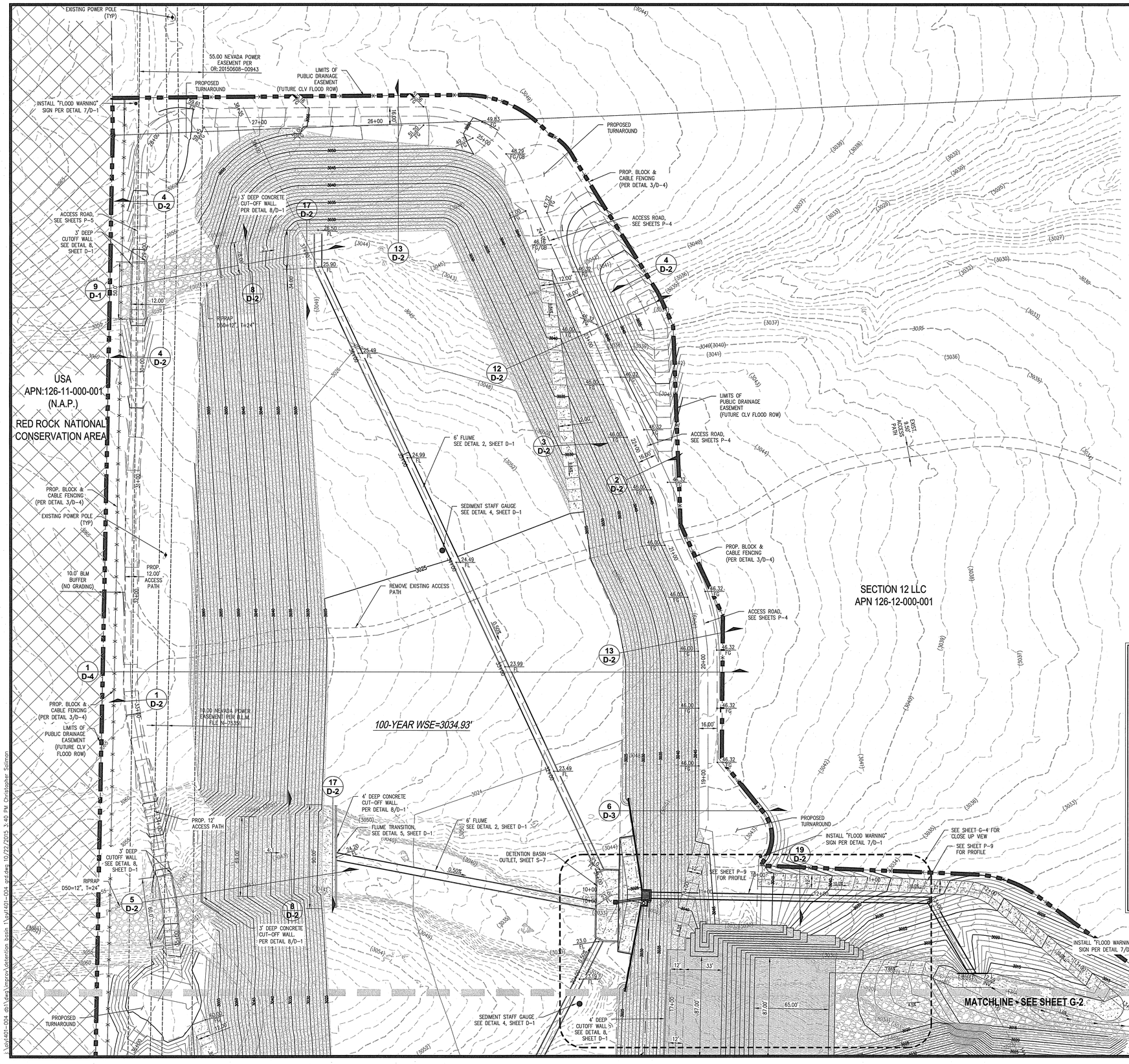

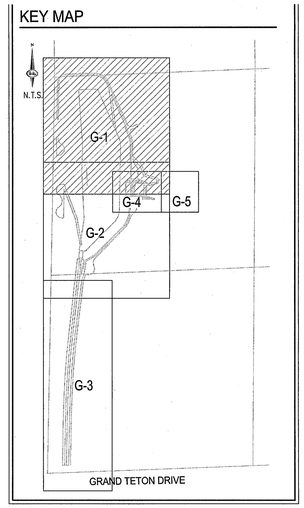

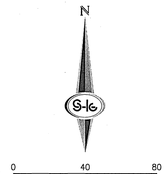

LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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.

DRAINAGE COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS #4698 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

STEPHEN M. JONES, P.E. 019638 — DATE 10/26/2015

DISCLAIMER NOTE

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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.
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CLARK COUNTY TRAFFIC OPERATIONS
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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 I

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004

STEPHEN M. JONES — NEVADA — No. 019638 — CIVIL — EXP. 6/30/17 — 10/26/2015

G-1
SHEET 10 OF 40

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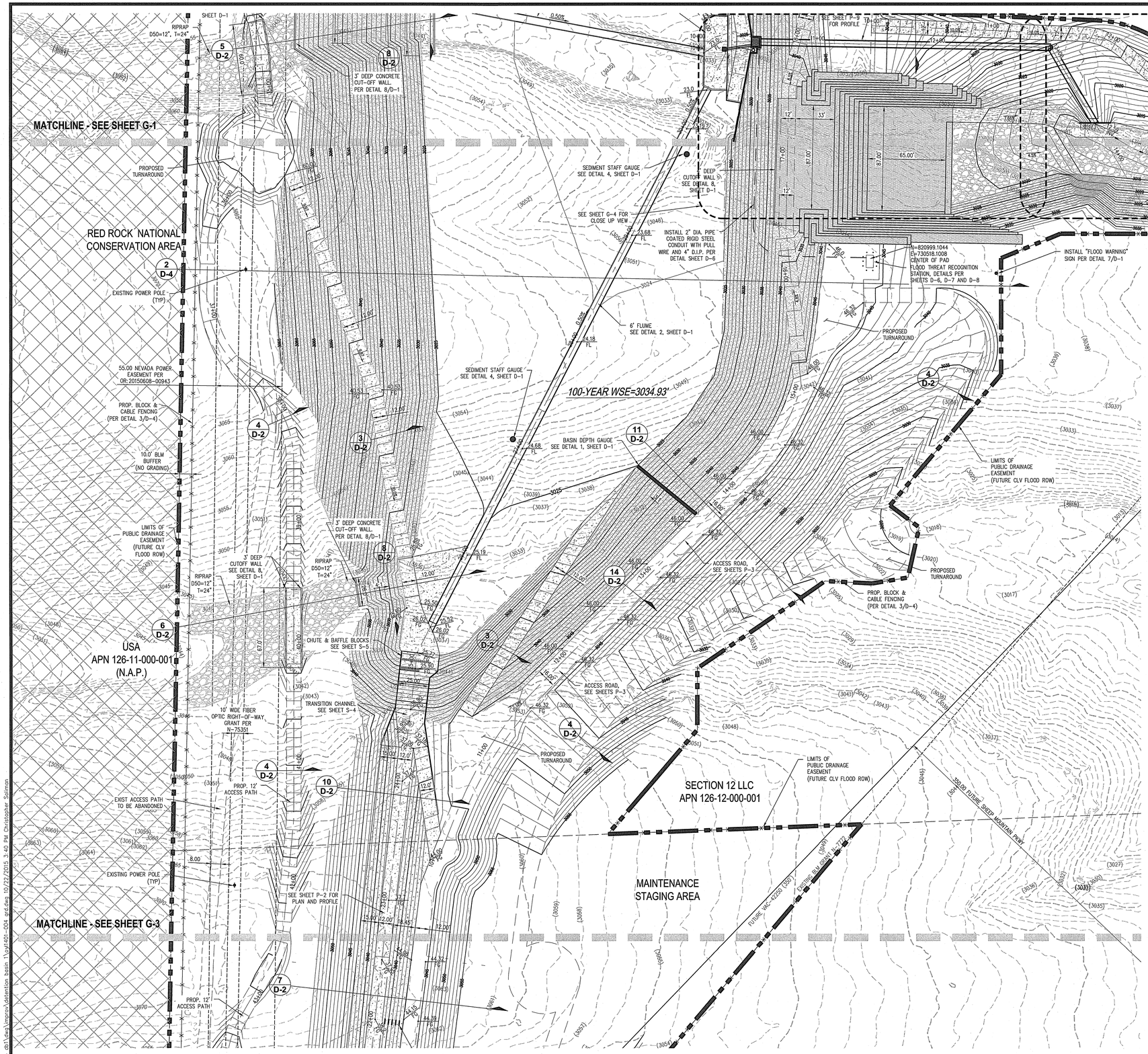
I:\oly1401-004 db\1dwg\improv\detention basin 1\oly1401-004 grd.dwg 10/22/2015 3:40 PM Christopher Salomon



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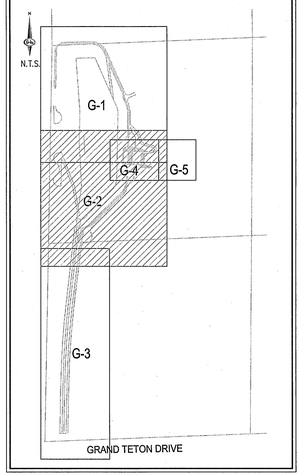

N

0 40 80

SCALE – 1"=40' FEET

LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #289947, 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

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DRAINAGE COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS #4698 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

STEPHEN M. JONES, P.E. 019638 — DATE 10/26/2015

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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

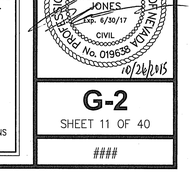
SKYE CANYON DETENTION BASIN 1

GRADING PLAN II

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004



G-2
SHEET 11 OF 40

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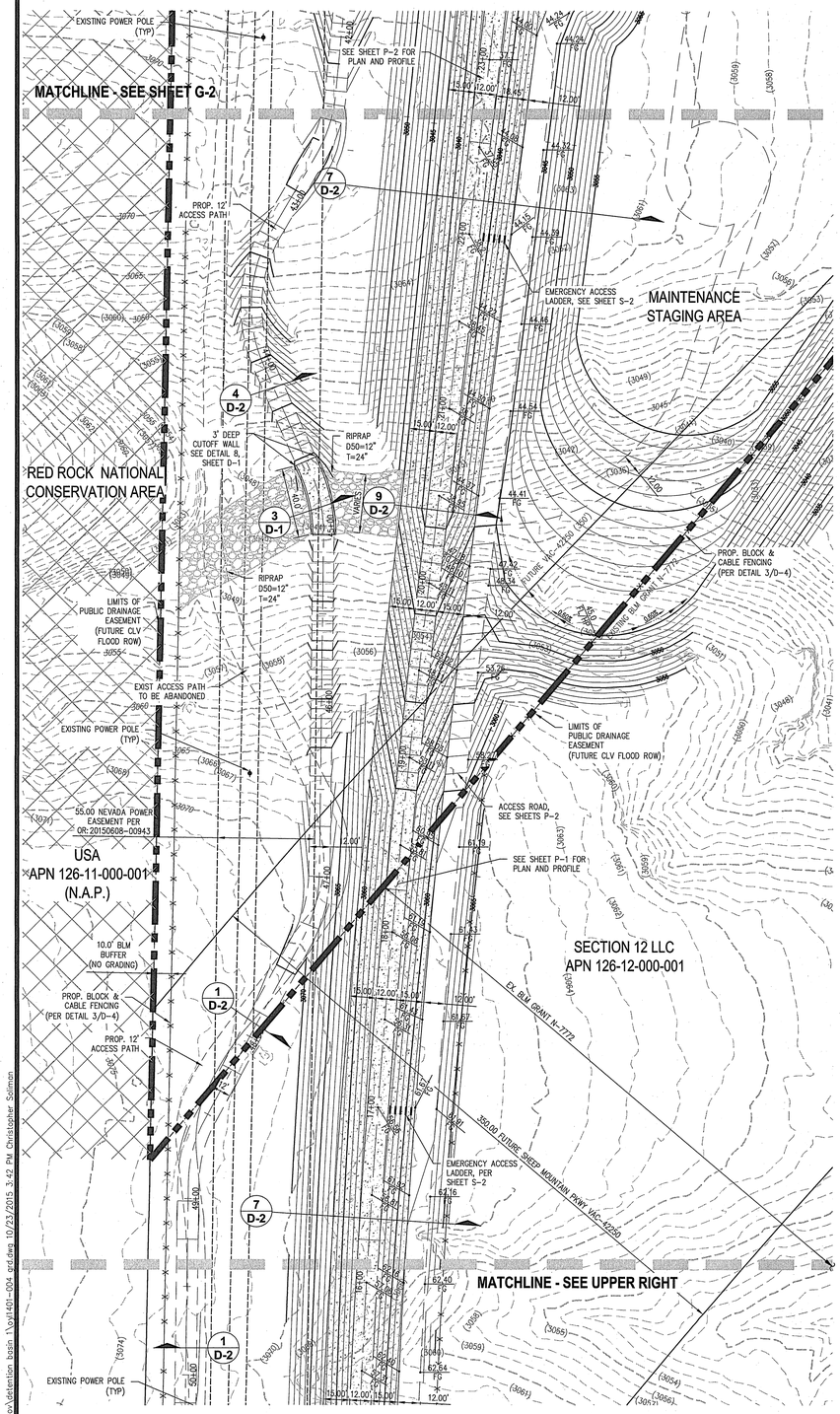
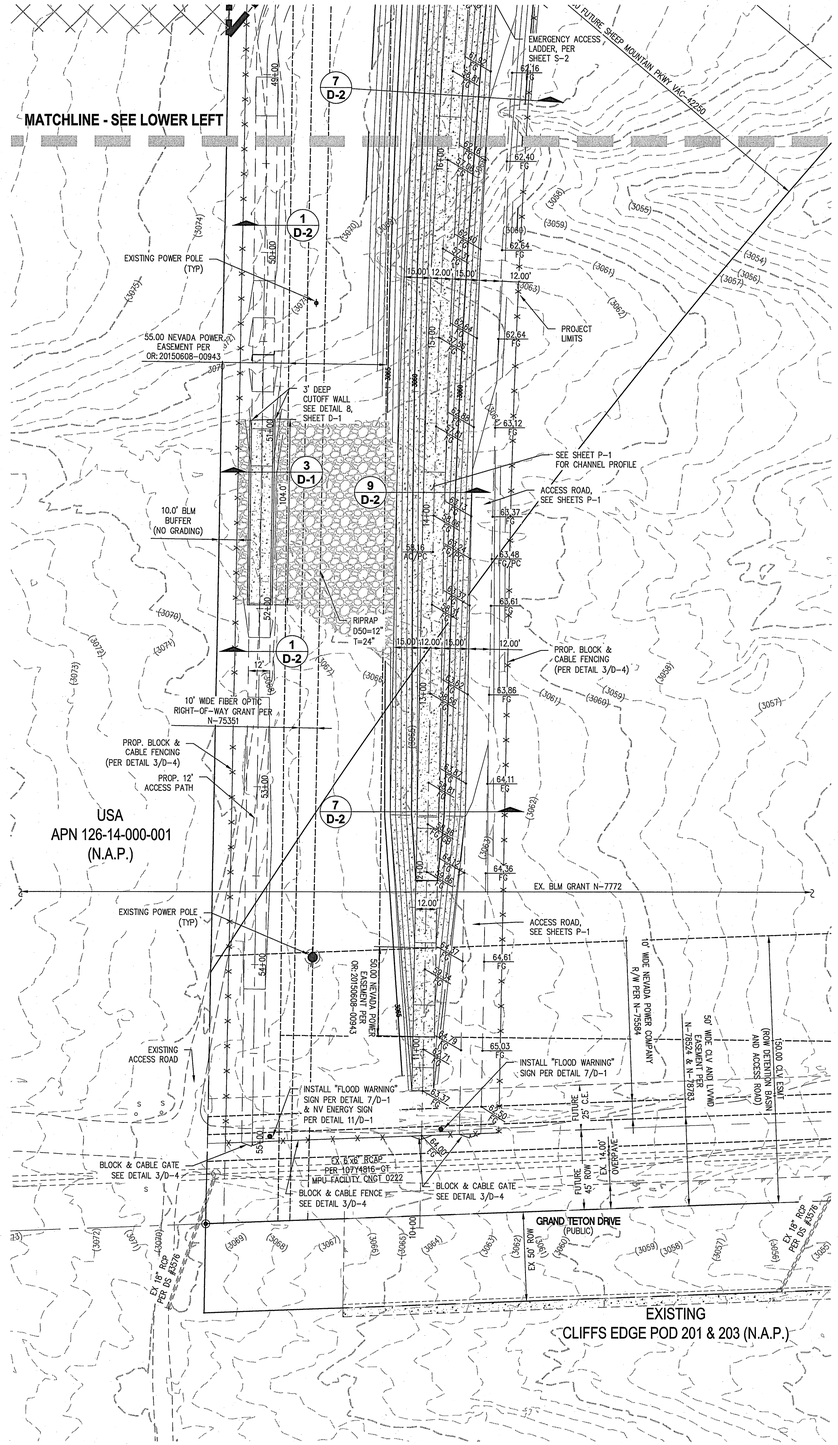
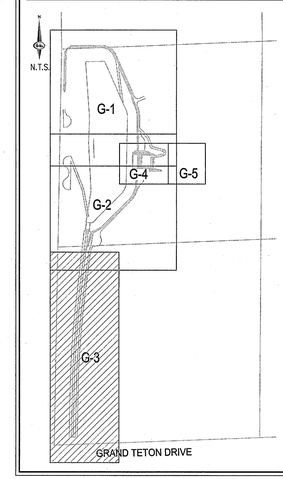
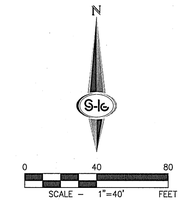




KEY MAP





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STEPHEN M. JONES, P.E. 019638 — 10/26/2015 DATE

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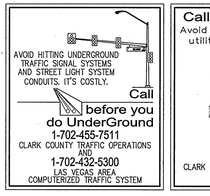

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PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC
SECTION 12 LLC

SKYE CANYON DETENTION BASIN 1
GRADING PLAN III

12 19S 59E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

G-3
SHEET 12 OF 40

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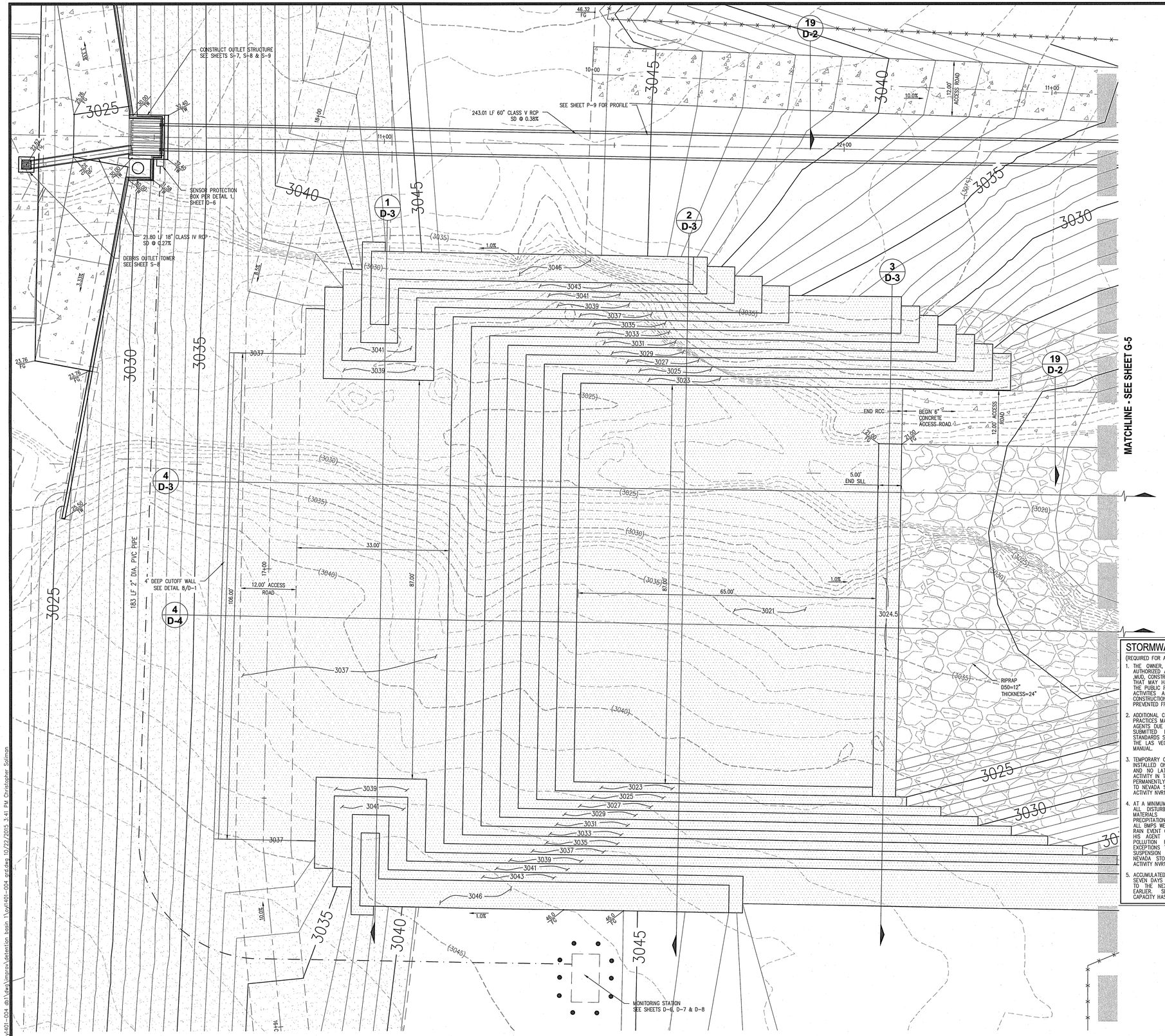

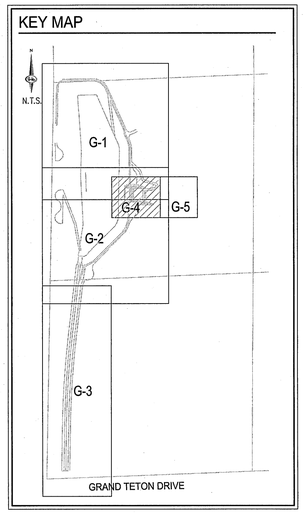

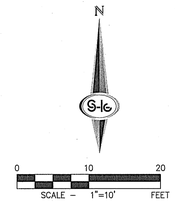

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STEPHEN M. JONES, P.E. 019638 — DATE 10/16/2015

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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

RCC STEPPED PMF SPILLWAY BLOWUP I

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
No. 019638
CIVIL
10/26/2015

G-4
SHEET 13 OF 40

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J:\Oly\1401-004 db\1\dwg\improv\detention basin 1\oly1401-004 grd.dwg 10/22/2015 3:41 PM Christopher Soliman

MATCHLINE - SEE SHEET G-4

5 D-4

4 D-3

4 D-4

19 D-2

19 D-2

243.01 LF 60" CLASS V RCP SD @ 0.35%

SDMH #3
RIM: 3029.65
INV. IN: 3012.88-W
INV. OUT: 3012.88-SE

RIPRAP D50=12" THICKNESS=24"

73.11 LF 60" CLASS V RCP SD @ 0.40%

CONSTRUCT NDOT HEADWALL R-2.5.2 SEE SHEET D-5 FOR DETAILS W/ POST & CABLE FENCE ABOVE HEADWALL PER DETAIL 10/D-1) TW=3019.3

BEGIN BLOCK & CABLE FENCE SEE DETAI 3, SHEET D-4

INSTALL "FLOOD WARNING" SIGN PER DETAIL 7/D-1

END BLOCK & CABLE FENCE SEE DETAIL 3, SHEET D-4

R=12.5'

10.0% MAX

7.66%

0.30%

1.0%

12.00' ACCESS ROAD

3025 3020 3015 3030 3035

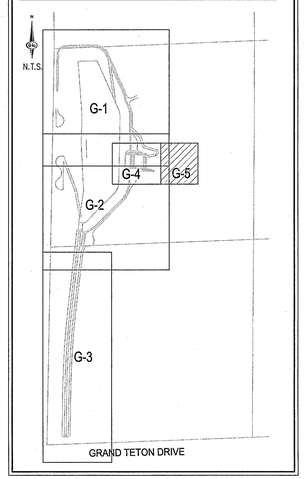
(3021) (3026) (3018) (3031) (3015) (3014) (3036) (3035) (3034)

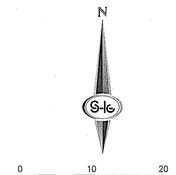
STORMWATER RUNOFF MANAGEMENT

(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.

KEY MAP





LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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 FLOODPLAN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1750E, DATED SEPTEMBER 27, 2002.

DRAINAGE COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS #4698 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.

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

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

RCC STEPPED PMF SPILLWAY BLOWUP II

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

NATIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/22/2015

G-5
SHEET 14 OF 40

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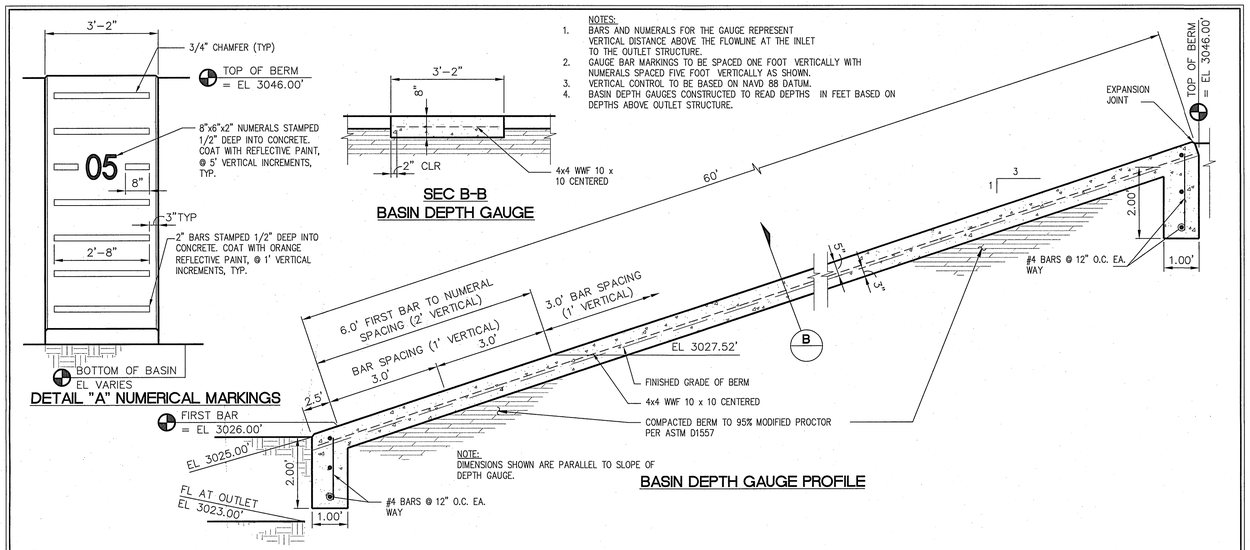
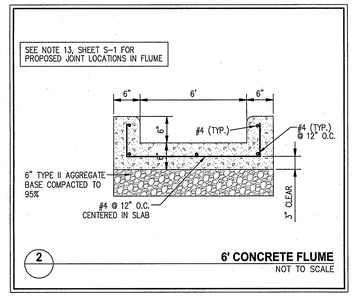
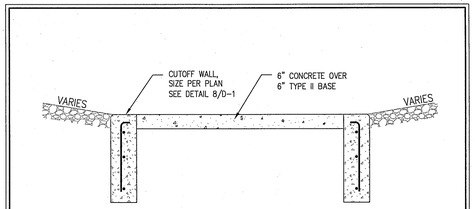


NOTES:
1. BARS AND NUMERALS FOR THE GAUGE REPRESENT VERTICAL DISTANCE ABOVE THE FLOWLINE AT THE INLET TO THE OUTLET STRUCTURE.
2. GAUGE BAR MARKINGS TO BE SPACED ONE FOOT VERTICALLY WITH NUMERALS SPACED FIVE FOOT VERTICALLY AS SHOWN.
3. VERTICAL CONTROL TO BE BASED ON NAVD 88 DATUM.
4. BASIN DEPTH GAUGES CONSTRUCTED TO READ DEPTHS IN FEET BASED ON DEPTHS ABOVE OUTLET STRUCTURE.

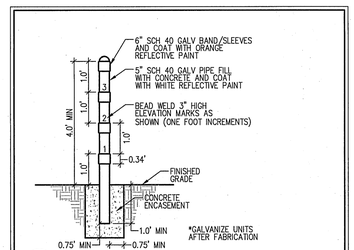
1 DEPTH GAUGE DETAIL
NOT TO SCALE



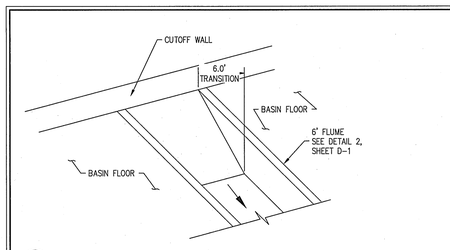
2 6' CONCRETE FLUME
NOT TO SCALE



3 NOT USED
NOT TO SCALE



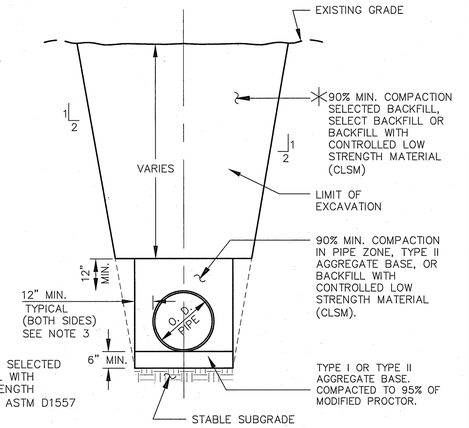
4 SEDIMENT STAFF GAUGE
NOT TO SCALE



5 FLUME TRANSITION
NOT TO SCALE

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.

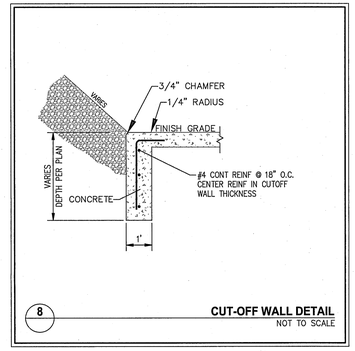
✳ UNDER EMBANKMENT: 95% MIN. COMPACTION SELECTED BACKFILL OR BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) PER ASTM D1557 IN 8" THICK LIFTS



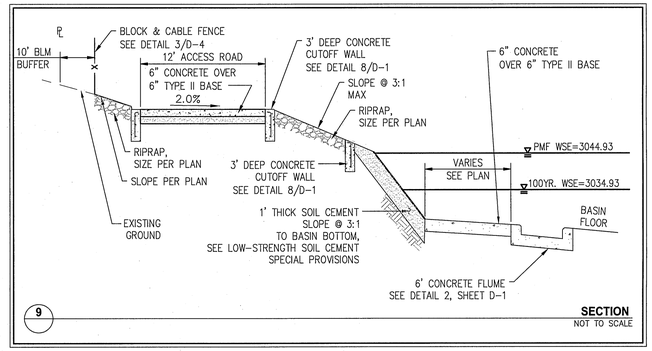
NOTE: WHERE TRENCH EXCAVATION ENCOUNTER OVERSIZE BOULDERS (COBBLES AND BOULDERS GREATER THAN 12 INCHES), OR CEMENTED NATIVE MATERIALS IT IS RECOMMENDED THAT TRENCH EXCAVATIONS BE OVEREXCAVATED TO A DEPTH OF AT LEAST 2 FEET BELOW THE PIPELINE ELEVATIONS TO REMOVE OVERSIZE BOULDERS. THE OVEREXCAVATION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

6 RCP TRENCH DETAIL (TYP.)
NOT TO SCALE

7 FLOOD WARNING SIGN DETAIL
NOT TO SCALE



8 CUT-OFF WALL DETAIL
NOT TO SCALE



9 SECTION
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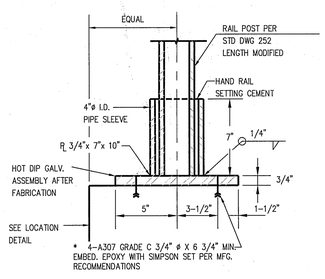
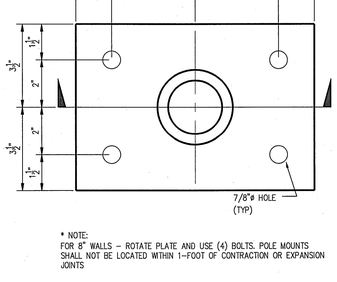
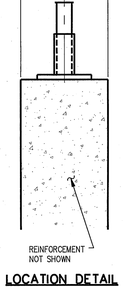


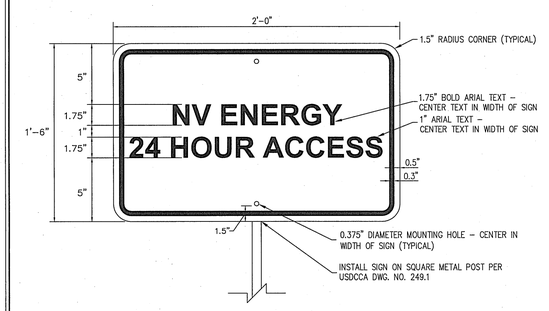


* NOTE:
FOR 8" WALLS – ROTATE PLATE AND USE (4) BOLTS. POLE MOUNTS SHALL NOT BE LOCATED WITHIN 1-FOOT OF CONTRACTION OR EXPANSION JOINTS



LOCATION DETAIL

10 POST, CABLE RAILING AND MOUNT POLE
NOT TO SCALE



11 NV ENERGY SIGN DETAIL
NOT TO SCALE

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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 I

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019635
10/22/2015

D-1
SHEET 15 OF 40

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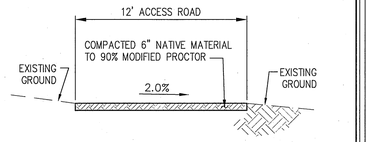
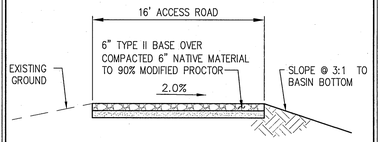


1 **12' ACCESS ROAD** NOT TO SCALE



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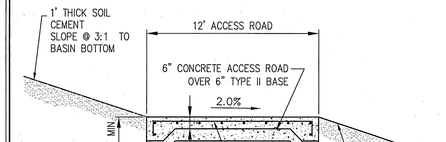

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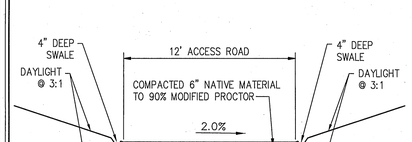

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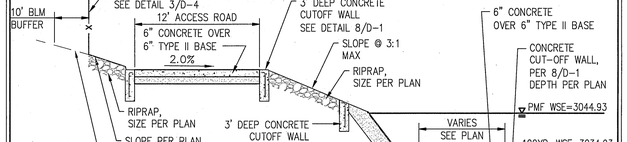

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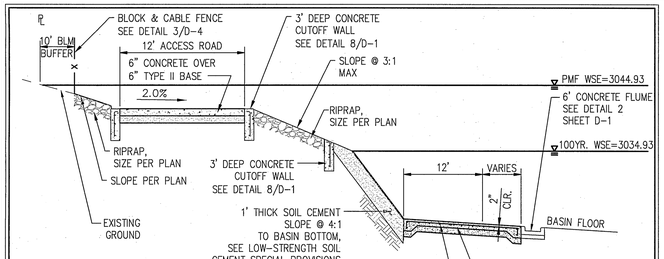

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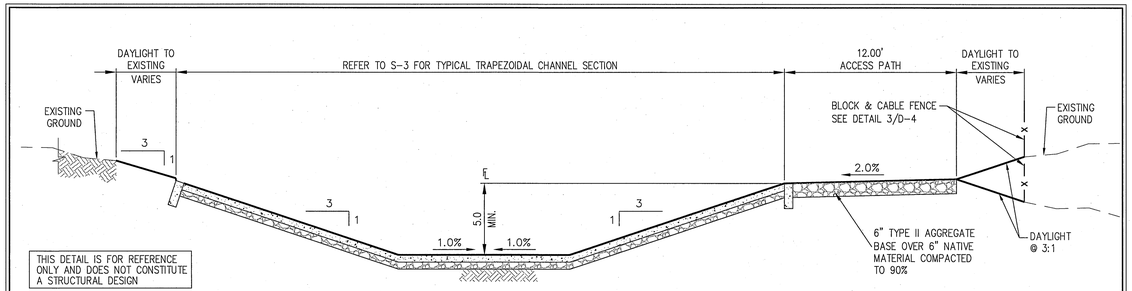

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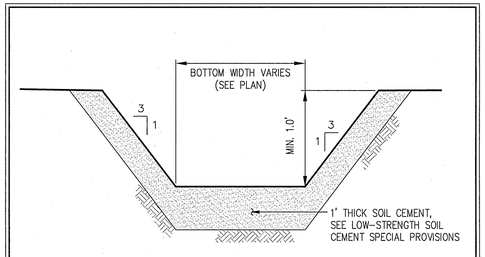

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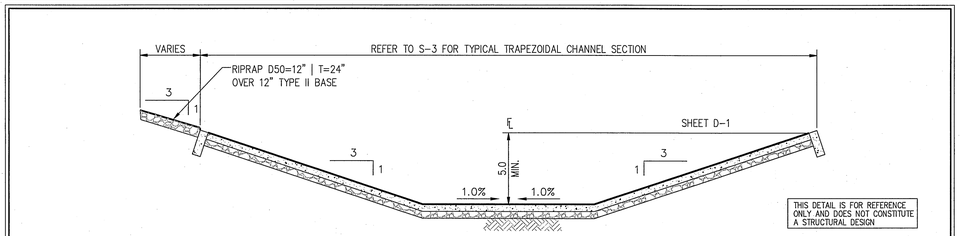

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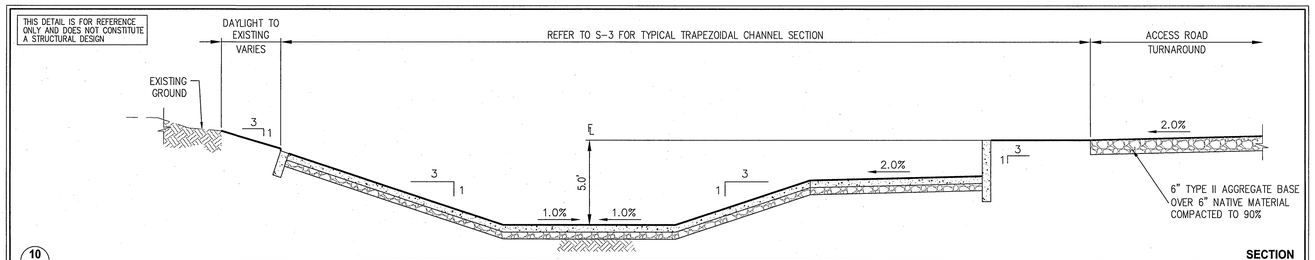

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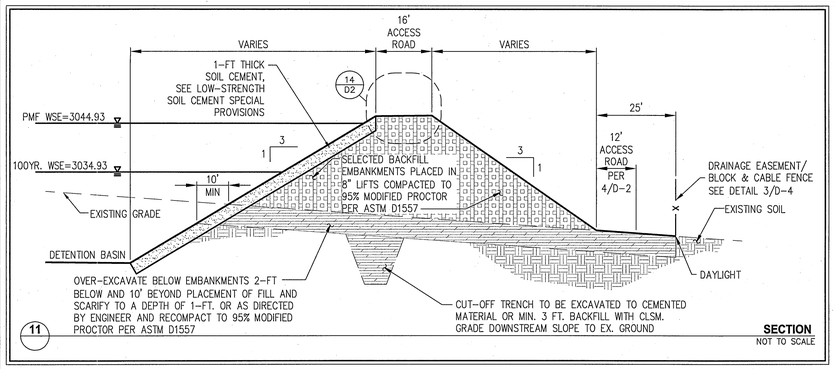

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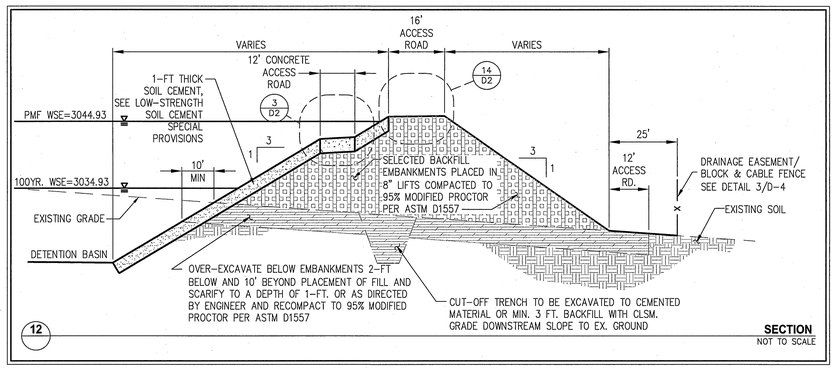

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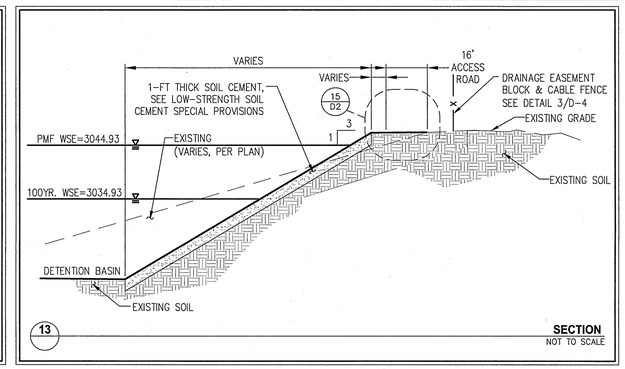

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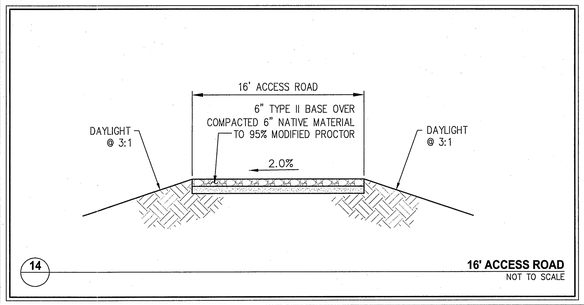

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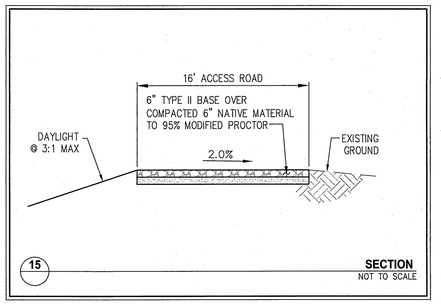

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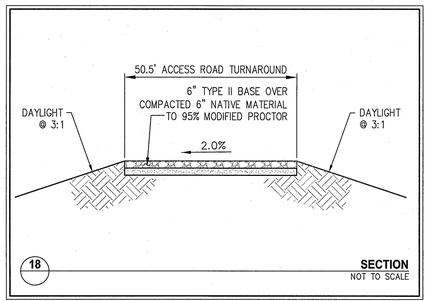
17 **SECTION** NOT USED



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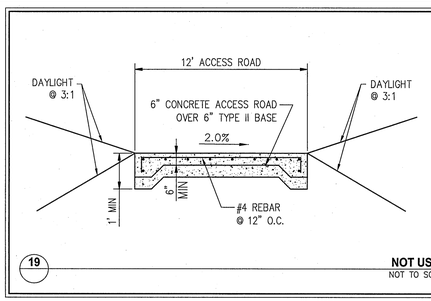

19 **NOT USED** NOT TO SCALE

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

T12 R59S R60E

DATE: 10/22/15

DRAFTER: CS

DESIGNER: BM

CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER STATE OF NEVADA STEPHEN M. JONES Exp. 6/30/17 CIVIL No. 019638 PROFESSIONAL
10/28/2015

D-2
SHEET 16 OF 40

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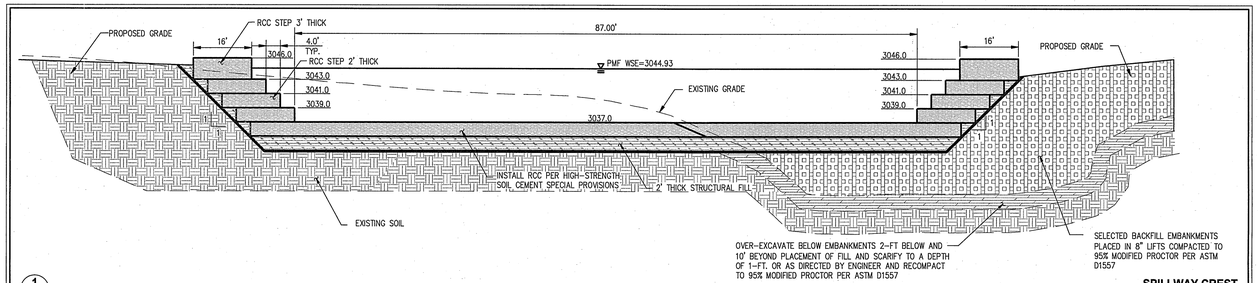
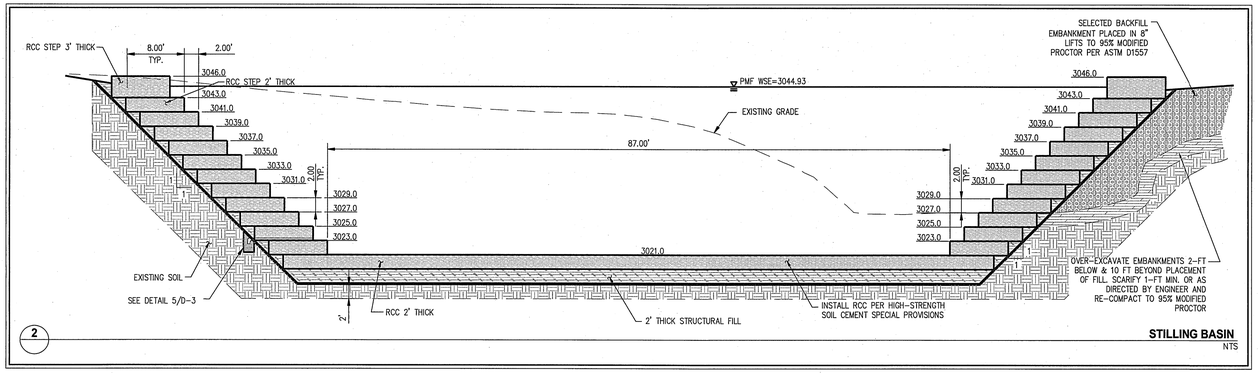
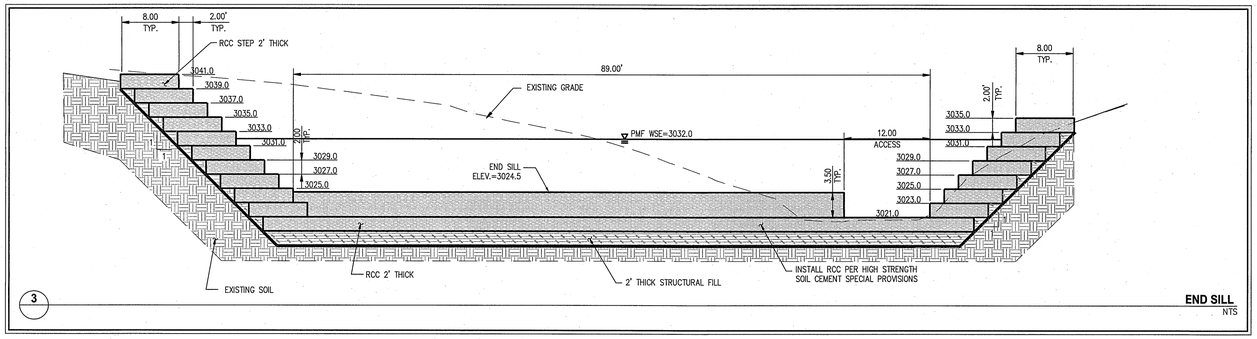


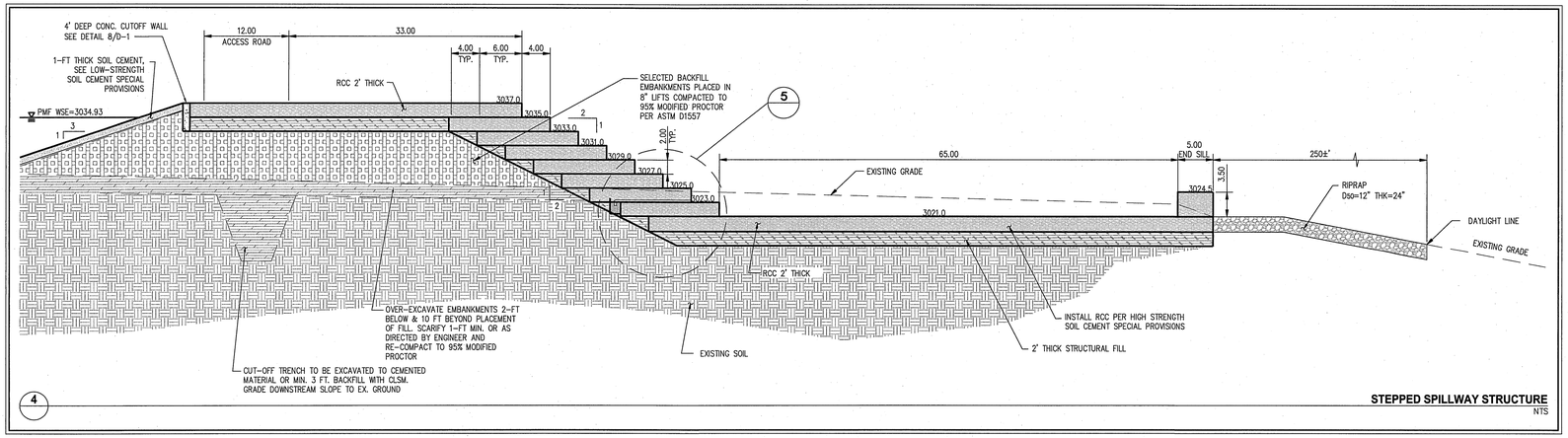
1 **SPILLWAY CREST**
NTS



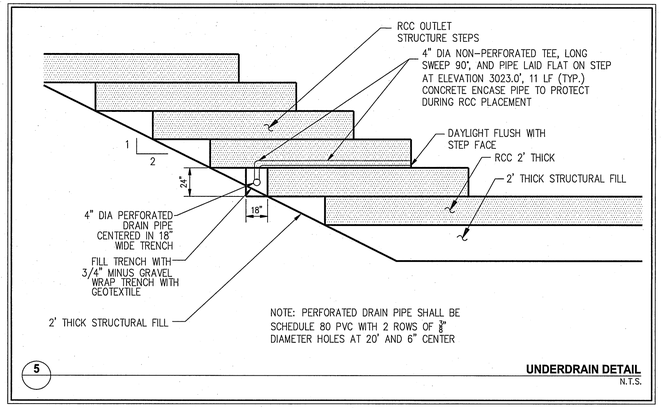
2 **STILLING BASIN**
NTS



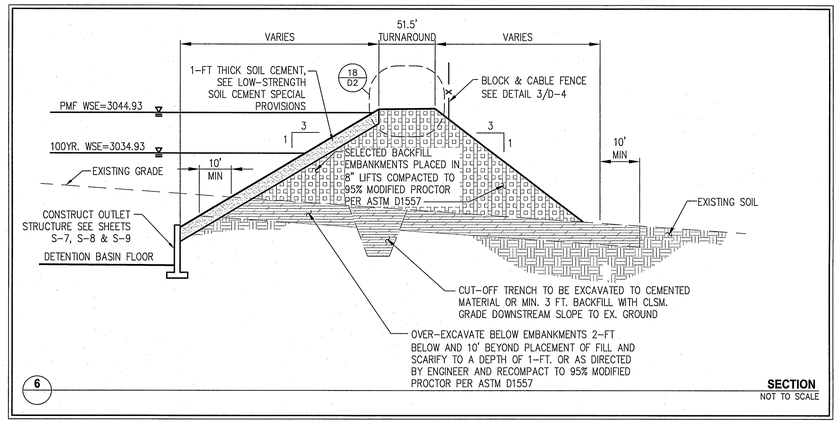
3 **END SILL**
NTS



4 **STEPPED SPILLWAY STRUCTURE**
NTS



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



6 **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 III

12 19S 60E

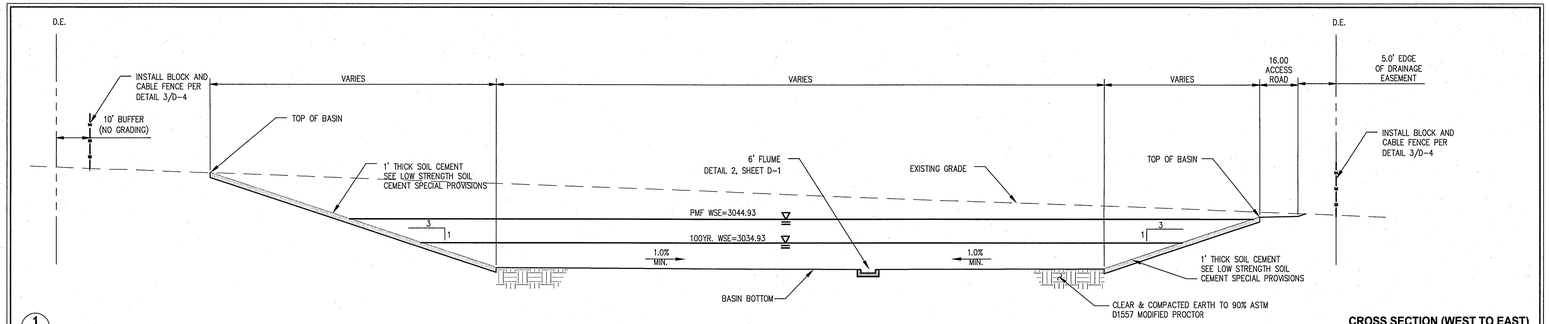
DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

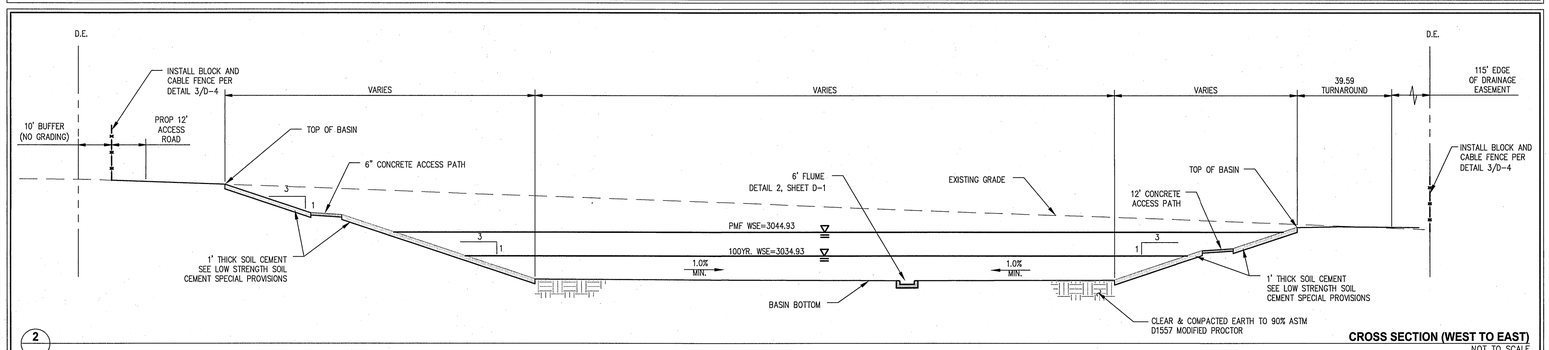
PROFESSIONAL ENGINEER — STATE OF NEVADA — STEPHEN M. JONES — Exp. 6/30/17 — CIVIL — No. 019638 — PROFESSIONAL — 10/26/2015

D-3
SHEET 17 OF 40

J:\oly1401-004 db\dwg\improv\detention basin 1\oly1401-004 det.dwg 10/23/2015 3:35 PM Christopher Solimon



1 **CROSS SECTION (WEST TO EAST)**
NOT TO SCALE



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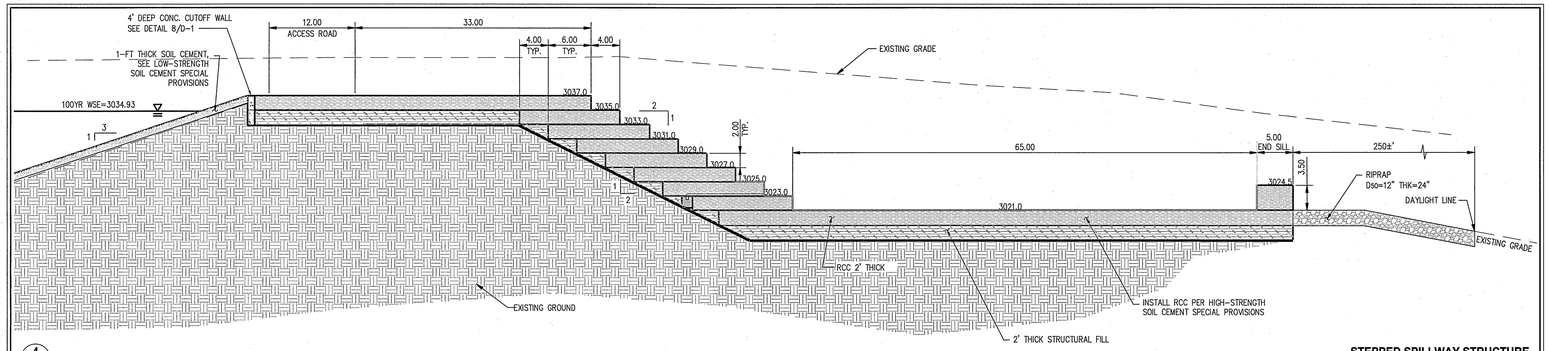
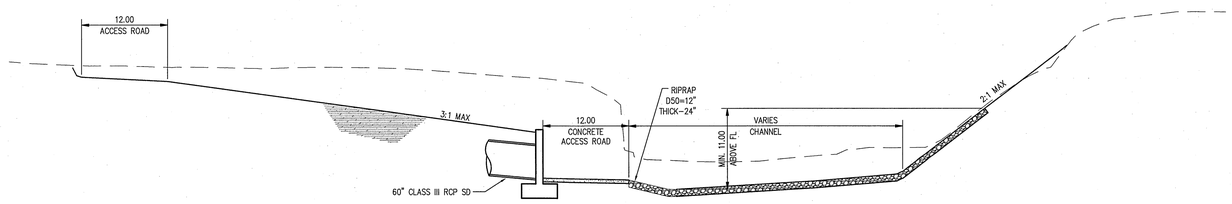
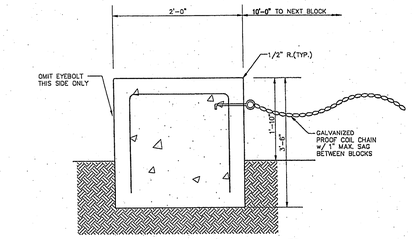
NOT TO SCALE



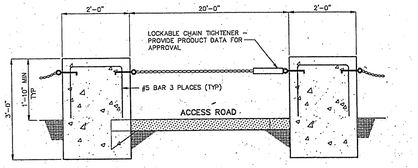
4 **STEPPED SPILLWAY STRUCTURE**
1"=10'



5 **SECTION**
1"=10'



END BLOCK 2
NO SCALE



ACCESS GATE DETAIL 1
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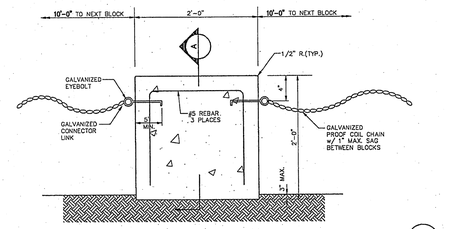

VEHICLE BARRIER FENCE DETAIL 1
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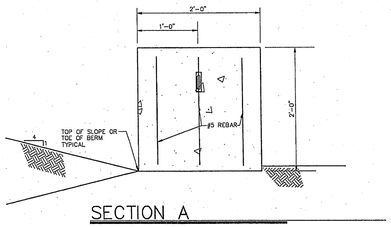

SECTION A
NO SCALE

3 **BLOCK & CABLE FENCE**
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

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER - STATE OF NEVADA
STEPHEN M. JAMES
Exp. 6/30/17
CIVIL
No. 019638
10/26/2015

D-4
SHEET 18 OF 40

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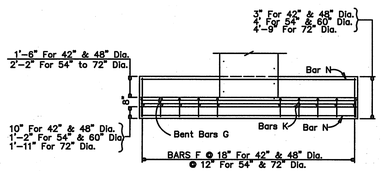
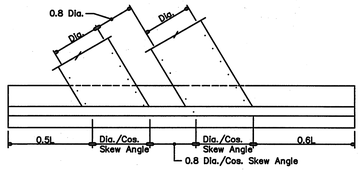
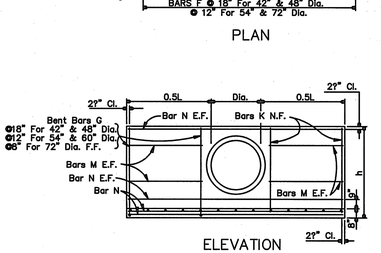


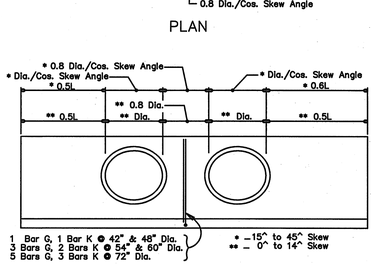
PLAN



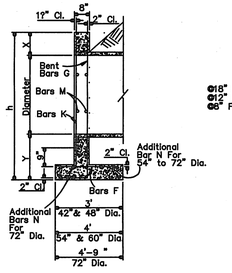
PLAN



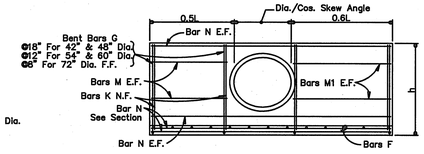
ELEVATION
SINGLE RCP/HDPE
0^ SKEW



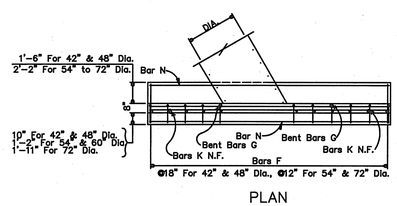
ELEVATION
DOUBLE RCP/HDPE
0^ TO 45^ SKEW



SECTION



ELEVATION
SINGLE RCP/HDPE
15^ TO 45^ SKEW



PLAN

SHEET 1 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

CULVERT HEADWALLS
42" TO 72" RCP &
42" TO 60" HDPE

Signed Original On File | R-2.5.2 | (502)

CHIEF HYDRAULICS ENGINEER | ADOPTED 9/98 | REVISION 9/08

QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS.

RCP/HDPE SIZE DIA.	RCP/HDPE AREA SQ FT	SINGLE RCP/HDPE								DOUBLE RCP/HDPE								X	Y	L	h
		0^ SKEW		15^ SKEW		30^ SKEW		45^ SKEW		0^ SKEW		15^ SKEW		30^ SKEW		45^ SKEW					
		CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB				
42"	9.62	6.10	571	6.66	624	6.76	627	6.98	666	8.18	692	8.80	748	9.15	790	9.91	877	1' – 02"	2' – 02"	12'	6' – 6"
48"	12.57	7.41	688	8.10	745	8.21	781	8.46	792	9.88	829	10.65	889	11.07	935	11.96	1030	1' – 1"	2' – 1"	13' – 9"	7' – 2"
54"	15.90	9.81	990	10.71	1091	10.87	1096	11.21	1146	13.11	1236	14.12	1340	14.68	1395	15.86	1562	1' – 11"	2' – 11"	15' – 6"	7' – 9"
60"	19.64	11.29	1137	12.32	1244	12.50	1250	12.88	1332	15.08	1407	16.25	1537	16.88	1596	18.25	1774	1' – 2"	2' – 2"	17'	8' – 4"
72"	28.27	15.62	1825	17.05	2002	17.30	2045	17.83	2170	20.87	2247	22.49	2464	23.36	2598	25.26	2881	1' – 3"	2' – 3"	20' – 3"	9' – 6"

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL.

LENGTH OF REINFORCING BARS

SINGLE RCP/HDPE

RCP/HDPE SIZE DIA	0^SKEW					15^SKEW						30^SKEW						45^SKEW					
	NO. 5		NO. 4			NO. 5		NO. 4				NO. 5		NO. 4				NO. 5		NO. 4			
	F	G	M	N	K	F	G	M	M1	N	K	F	G	M	M1	N	K	F	G	M	M1	N	K
42"	1282'-9"	1097'-6"	1285'-5"	9815'-3"	1085'-8"	1382'-9"	1197'-6"	695'-3"	696'-6"	9816'-7"	1185'-8"	1382'-9"	1197'-6"	695'-1"	696'-6"	9817'	1185'-8"	1382'-9"	1297'-6"	694'-11"	696'-6"	9817'-11"	1285'-8"
48"	1382'-9"	1298'-1"	1286'-3"	9817'-6"	1286'-3"	1482'-9"	1398'-1"	696'-1"	697'-5"	9819'	1386'-3"	1582'-9"	1498'-1"	695'-11"	697'-5"	9819'-6"	1486'-3"	1582'-9"	1498'-1"	695'-9"	697'-5"	9820'-6"	1486'-3"
54"	2183'-9"	1699'-1"	1687'-1"	10819'-9"	1286'-10"	2383'-9"	1899'-1"	995'-11"	996'-5"	10821'-6"	1386'-10"	2383'-9"	1899'-1"	995'-9"	996'-5"	10822'	1386'-10"	2483'-9"	1999'-1"	995'-7"	996'-5"	10823'-2"	1486'-10"
60"	2383'-9"	1899'-8"	1687'-9"	10821'-9"	1487'-5"	2583'-9"	2099'-8"	997'-7"	999'-4"	10823'-8"	1587'-5"	2583'-9"	2099'-8"	997'-5"	999'-4"	10824'-3"	1587'-5"	2783'-9"	2299'-8"	997'-3"	999'-4"	10825'-6"	1687'-5"
72"	2784'-6"	3091'-7"	2089'-11"	12025'	1688'-7"	2984'-6"	3391'-7"	1099'-2"	1101'-3"	12028'-3"	1888'-7"	3084'-6"	3491'-7"	1099'	1101'-3"	12029'	1888'-7"	3284'-6"	3791'-7"	1098'-10"	1101'-3"	12030'-6"	1988'-7"

DOUBLE RCP/HDPE

42"	1582'-9"	1197'-6"	1285'-5"	9821'-6"	1185'-8"	1782'-9"	1297'-6"	695'-3"	696'-6"	9823'-1"	1285'-8"	1582'-9"	1397'-6"	695'-1"	696'-6"	9824'-3"	1385'-8"	2082'-9"	1597'-6"	694'-11"	696'-6"	9826'-10"	1585'-8"
48"	1882'-9"	1398'-1"	1286'-3"	9824'-9"	1386'-3"	1982'-9"	1498'-1"	696'-1"	697'-5"	9826'-6"	1486'-3"	2082'-9"	1598'-1"	695'-11"	697'-5"	9827'-10"	1586'-3"	2282'-9"	1798'-1"	695'-9"	697'-5"	9830'-9"	1786'-3"
54"	2383'-9"	1999'-1"	1687'	10827'-10"	1486'-10"	3183'-9"	2199'-1"	896'-11"	898'-5"	10829'-10"	1586'-10"	3283'-9"	2299'-1"	896'-9"	898'-5"	10831'-4"	1686'-10"	3583'-9"	2599'-1"	896'-7"	898'-5"	10834'-8"	1886'-10"
60"	3283'-9"	2199'-8"	1687'-9"	10830'-9"	1487'-5"	3583'-9"	2499'-8"	897'-7"	899'-4"	10833'	1687'-5"	3683'-9"	2599'-8"	897'-5"	899'-4"	10834'-8"	1787'-5"	4083'-9"	2999'-8"	897'-3"	899'-4"	10838'-3"	1987'-5"
72"	3784'-6"	3591'-7"	2089'-11"	12838'-10"	1988'-7"	4084'-6"	3991'-7"	1099'-2"	1101'-3"	12839'-5"	2188'-7"	4284'-6"	4291'-7"	1099'	1101'-3"	12841'-5"	2288'-7"	4684'-6"	4891'-7"	1098'-10"	1101'-3"	12845'-10"	2588'-7"

NOTES:

1. CONCRETE SHALL BE CLASS A OR AA.
2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM SPACING OF 18" SET 2" CLEAR OF SURFACE OF CONCRETE EXCEPT AS NOTED. BAR ENDS SHALL BE KEPT 1" CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
3. FOOTINGS SHOWN ARE OF MINIMUM DEPTH AND SHALL BE EXTENDED IF SOIL IS UNSUITABLE OR LIABLE TO SCOUR.
4. CULVERT PIPES TO BE SET ON A SKEW SHALL BE MITERED WHEN HEADWALLS ARE CONSTRUCTED. WHEN HEADWALLS ARE NOT CONSTRUCTED THE PIPES SHALL NOT BE MITERED EXCEPT IN OVERFLOW SECTION.
5. FOR ESTIMATING HEADWALL QUANTITIES ON SKEWED CULVERTS:
   0^ to 10^ – USE QUANTITIES FOR 0^ SKEW.
   11^ to 25^ – USE QUANTITIES FOR 15^ SKEW.
   26^to 40^ – USE QUANTITIES FOR 30^ SKEW.
   41^to 55^ – USE QUANTITIES FOR 45^ SKEW.
   OVER 55^ – CALCULATE QUANTITIES REQUIRED.
   CULVERTS SHOULD BE INSTALLED ON 5^ INCREMENTS WHERE IT IS FEASIBLE.
6. DIMENSIONS X,Y,L, AND h TO REMAIN CONSTANT REGUARDLESS OF MINOR VARIATIONS IN WALL THICKNESS DUE TO CLASS OR TYPE OF PIPE USED.
7. REFER TO SHEET R-2.9.1 FOR DETAILS IF CONNECTING TO HDPE PIPE.

SHEET 2 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

CULVERT HEADWALLS
42" TO 72" RCP &
42" TO 60" HDPE

Signed Original On File | R-2.5.2.1 | (502)

CHIEF HYDRAULICS ENGINEER | ADOPTED 9/98 | REVISION 9/08

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 V

12 195 60E

DATE: 10/22/15

DRAFTER: CS

DESIGNER: BM

CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/22/2015

D-5
SHEET 19 OF 40

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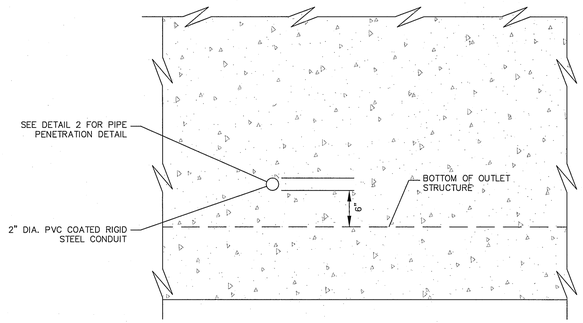
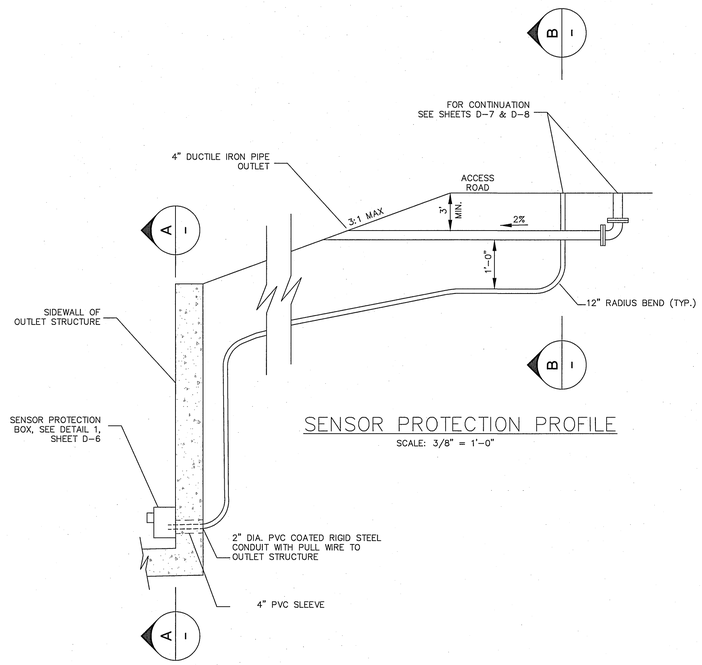


SECTION A–A
NOT TO SCALE

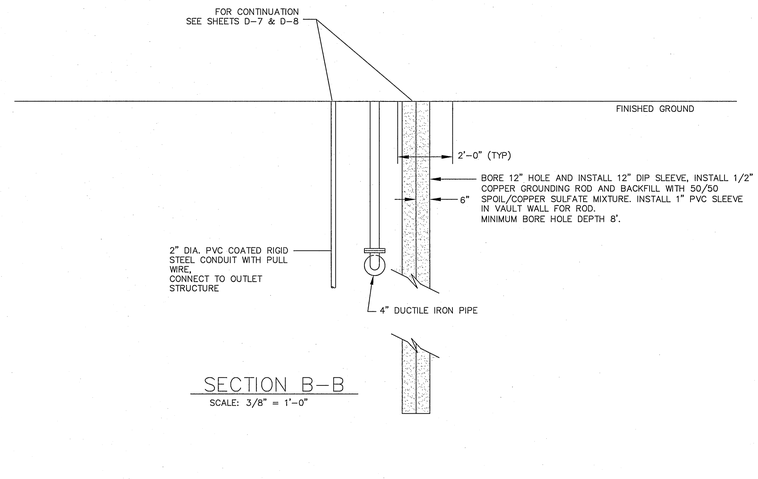
NOTES:

1.) BEDDING REQUIREMENTS FOR MONITORING STATION 6" MIN TYPE II COMPACTED TO MIN 95%

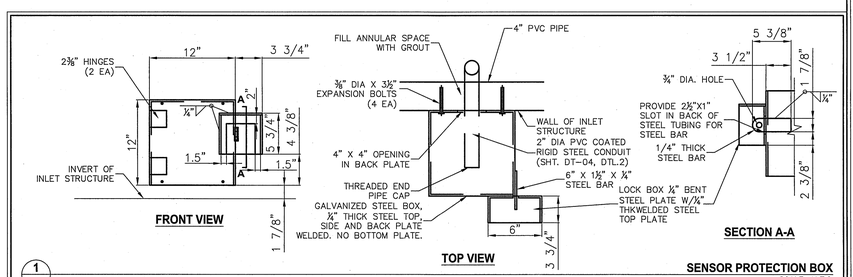
2.) FLOOR DRAIN TO BE INSTALLED AND CONNECTED TO DRAIN PIPE PER MANUFACTURER'S RECOMMENDATIONS



SENSOR PROTECTION PROFILE
SCALE: 3/8" = 1'-0"



SECTION B–B
SCALE: 3/8" = 1'-0"



1 SENSOR PROTECTION BOX
SCALE: N.T.S.

1 FLOOD THREAT RECOGNITION STATION
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

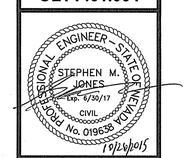
SKYE CANYON DETENTION BASIN 1

DETAIL SHEET VI

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004



D-6
SHEET 20 OF 40

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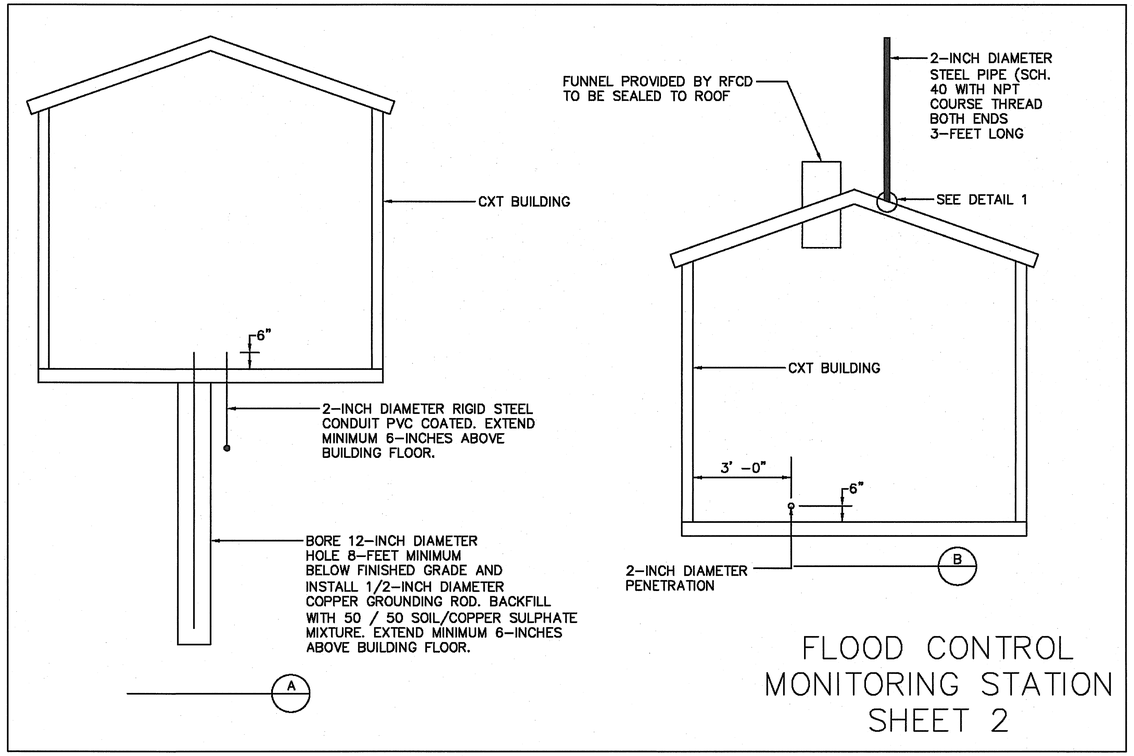
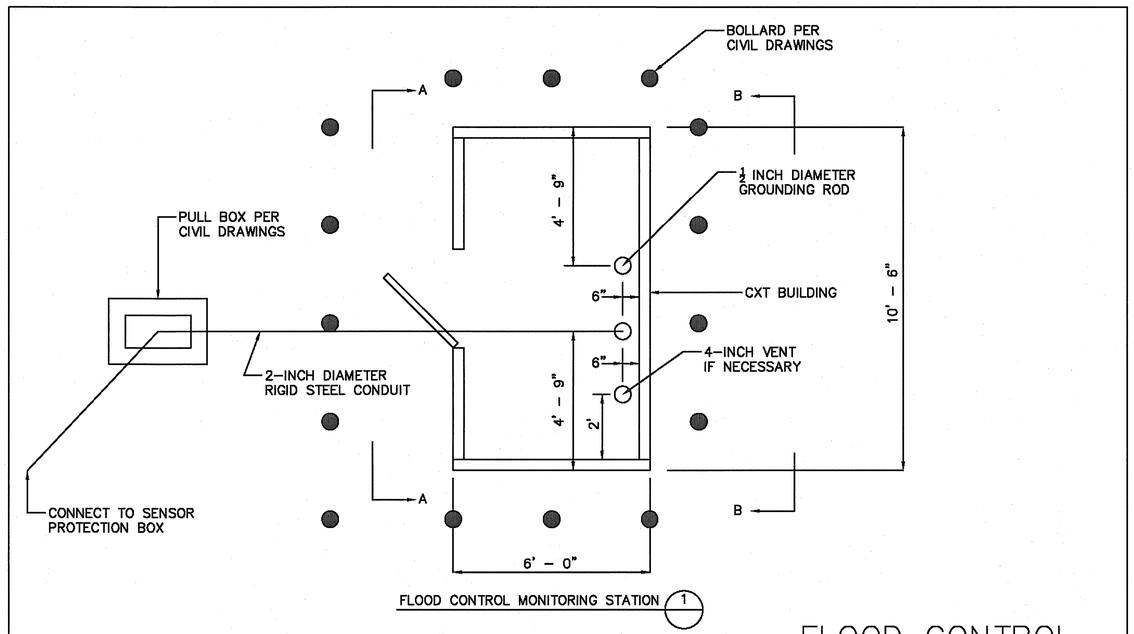


FLOOD CONTROL MONITORING STATION SHEET 2



FLOOD CONTROL MONITORING STATION SHEET 1

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 VII

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO. OLY1401.004

PROFESSIONAL ENGINEER STATE OF NEVADA STEPHEN M. JONES Exp. 6/30/17 CIVIL No. 019638

10/22/2015

D-7
SHEET 21 OF 40

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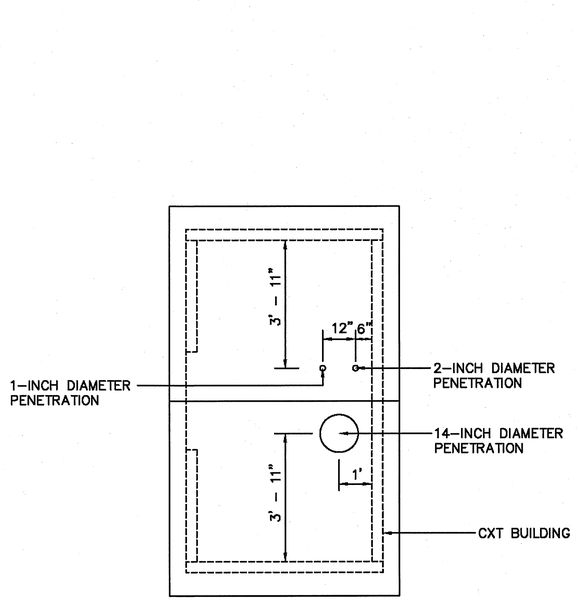

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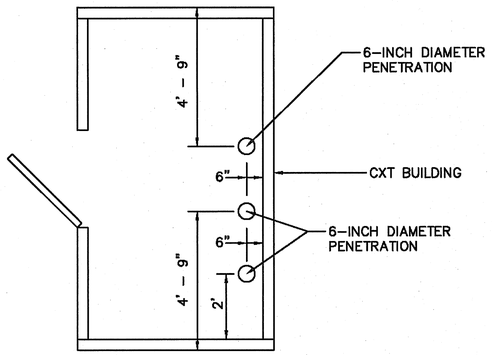
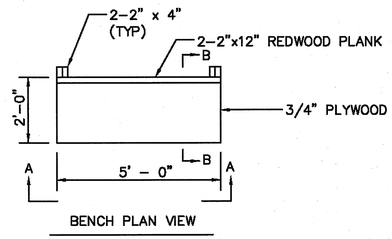
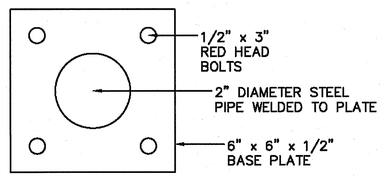


FLOOR PLAN

FLOOD CONTROL MONITORING STATION SHEET 3



BENCH PLAN VIEW



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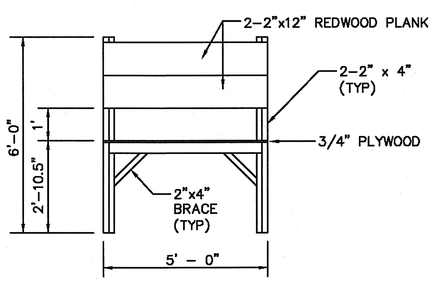
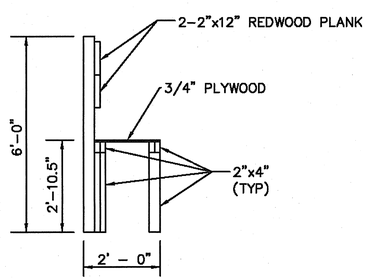


SECTION A – A



SECTION B – B

FLOOD CONTROL MONITORING STATION SHEET 4

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 VIII

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/28/2015

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SHEET 22 OF 40

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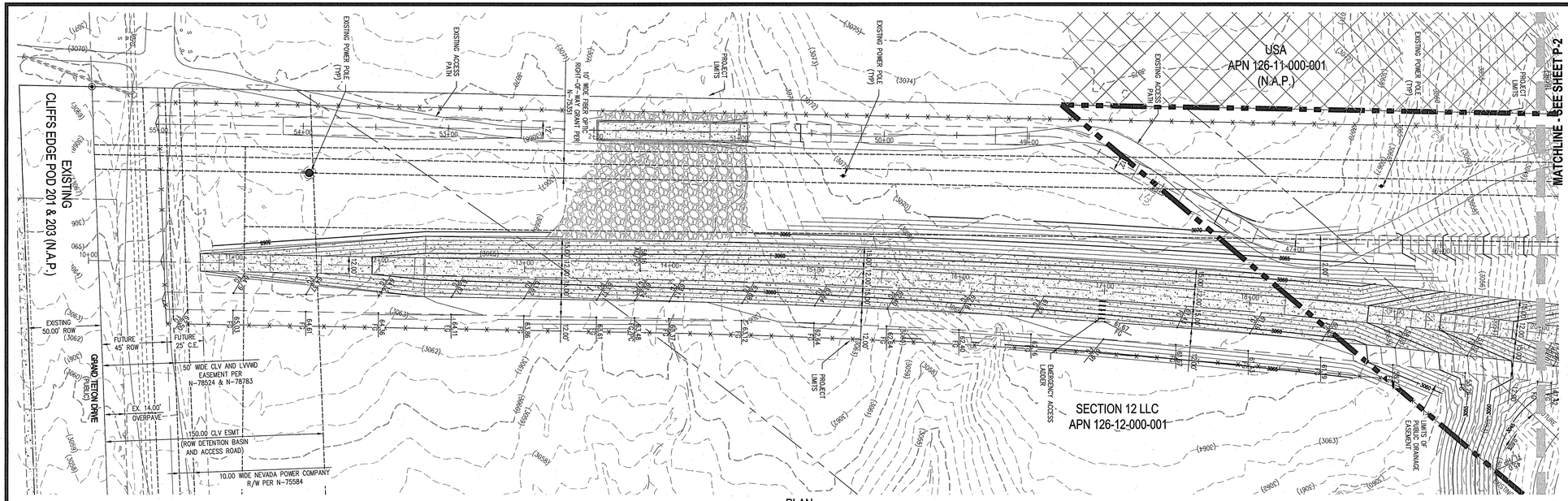

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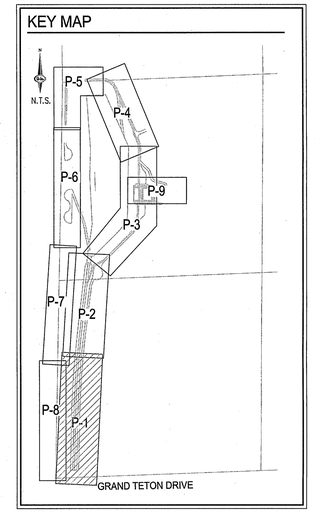
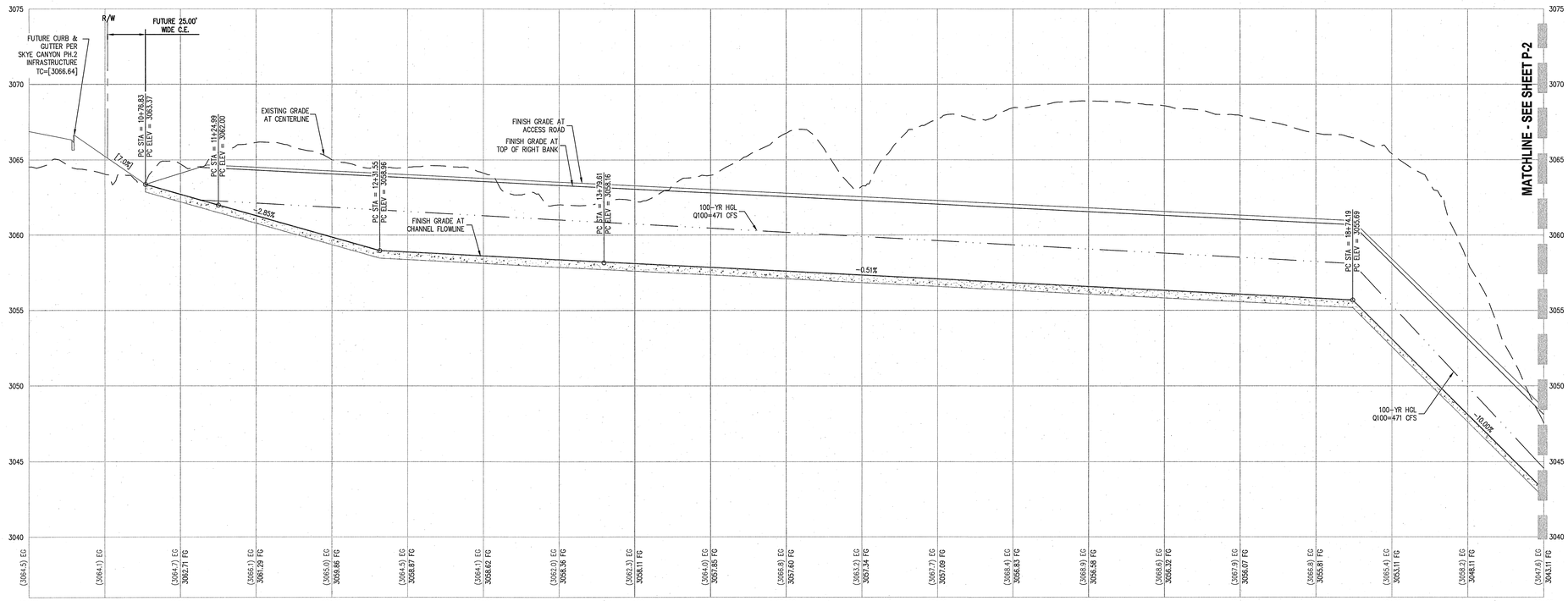
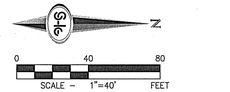
(PUBLIC)





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 UNFORSEEN 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.
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4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER 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 SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

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BASIS OF BEARING

THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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

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

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS-4698 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

STEPHEN M. JONES, P.E. 019638 DATE

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

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
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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 I

12S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER - STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/26/2015

P-1
SHEET 23 OF 40

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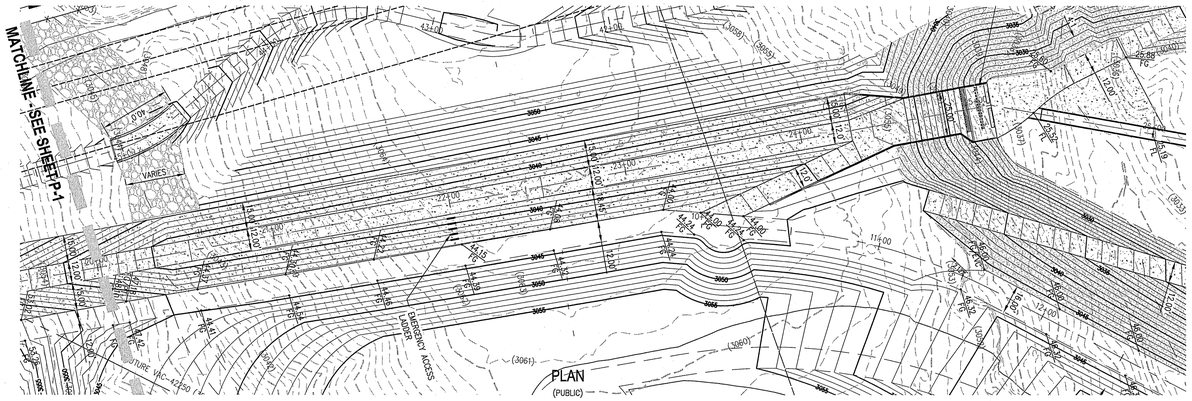
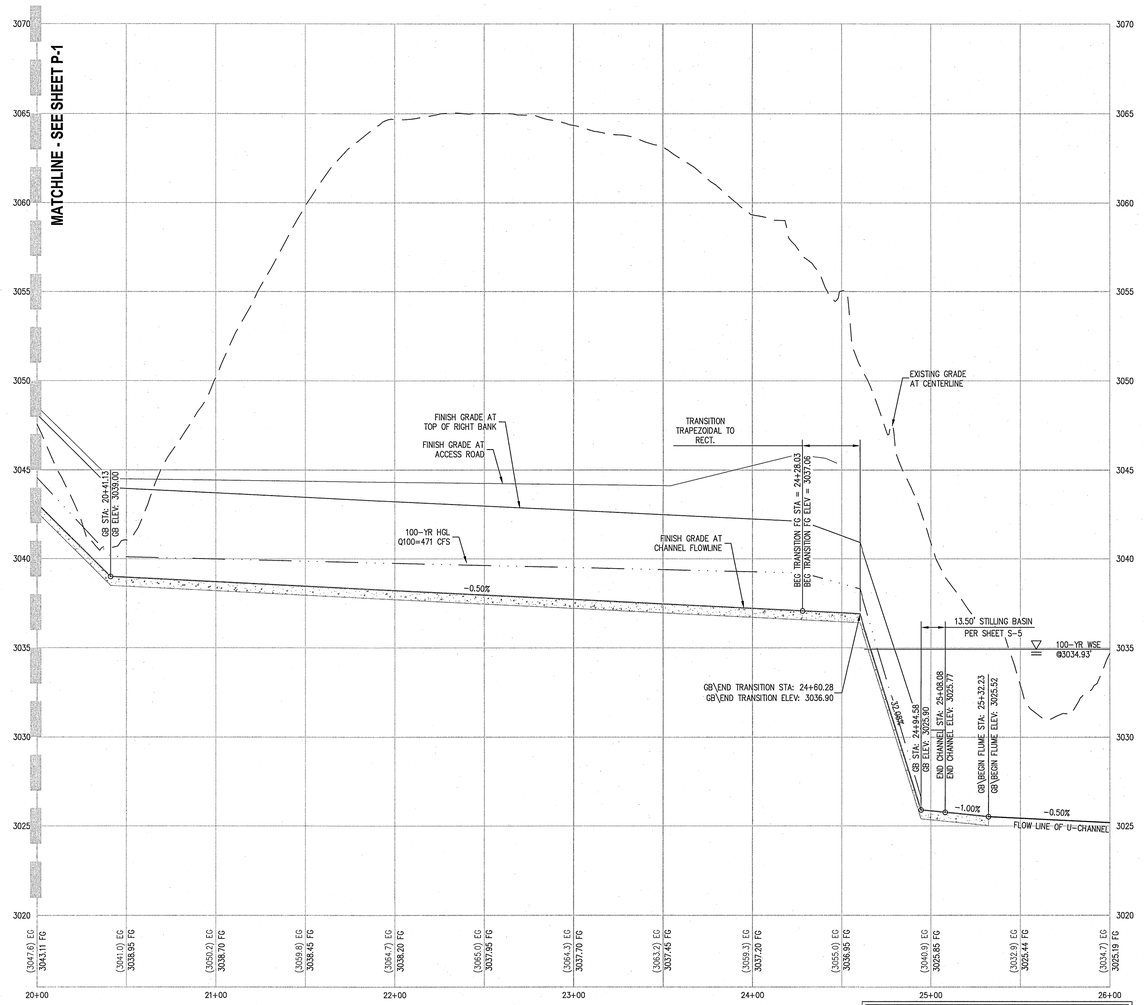
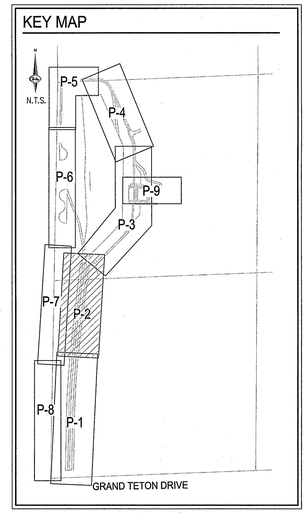
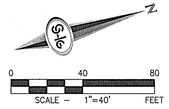




PROFILE
HOR. : 1"=40'
VERT. : 1"=4'





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

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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 II

12 19S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA – STEPHEN M. JONES – Exp. 6/30/17 – CIVIL – No. 019638 – 10/22/2015

P-2
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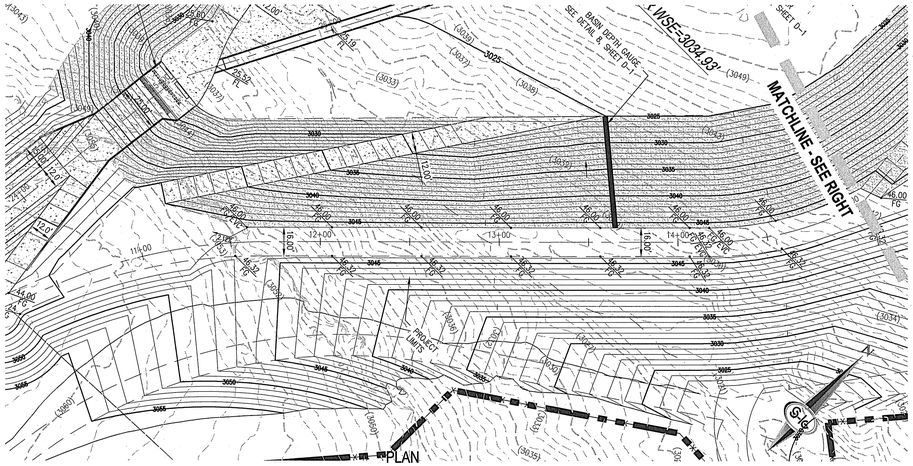

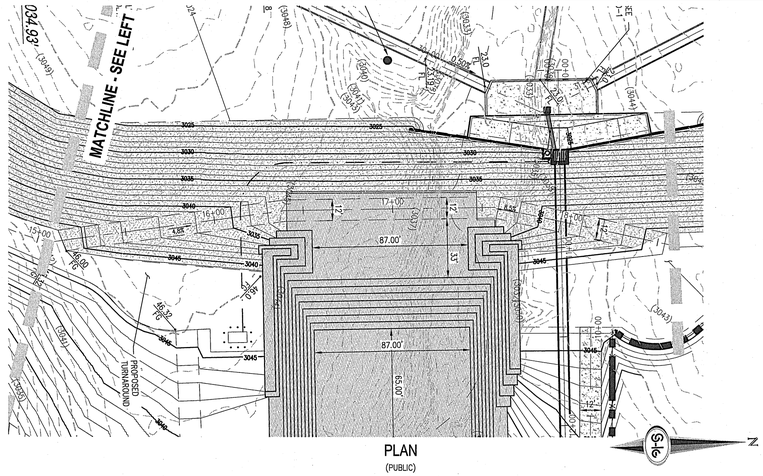

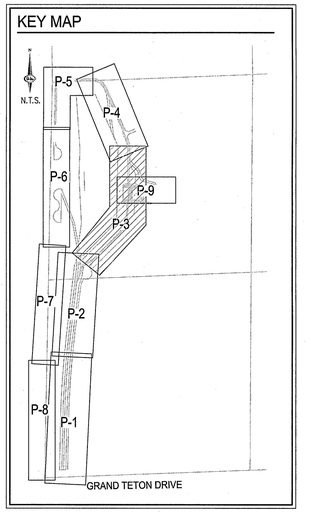

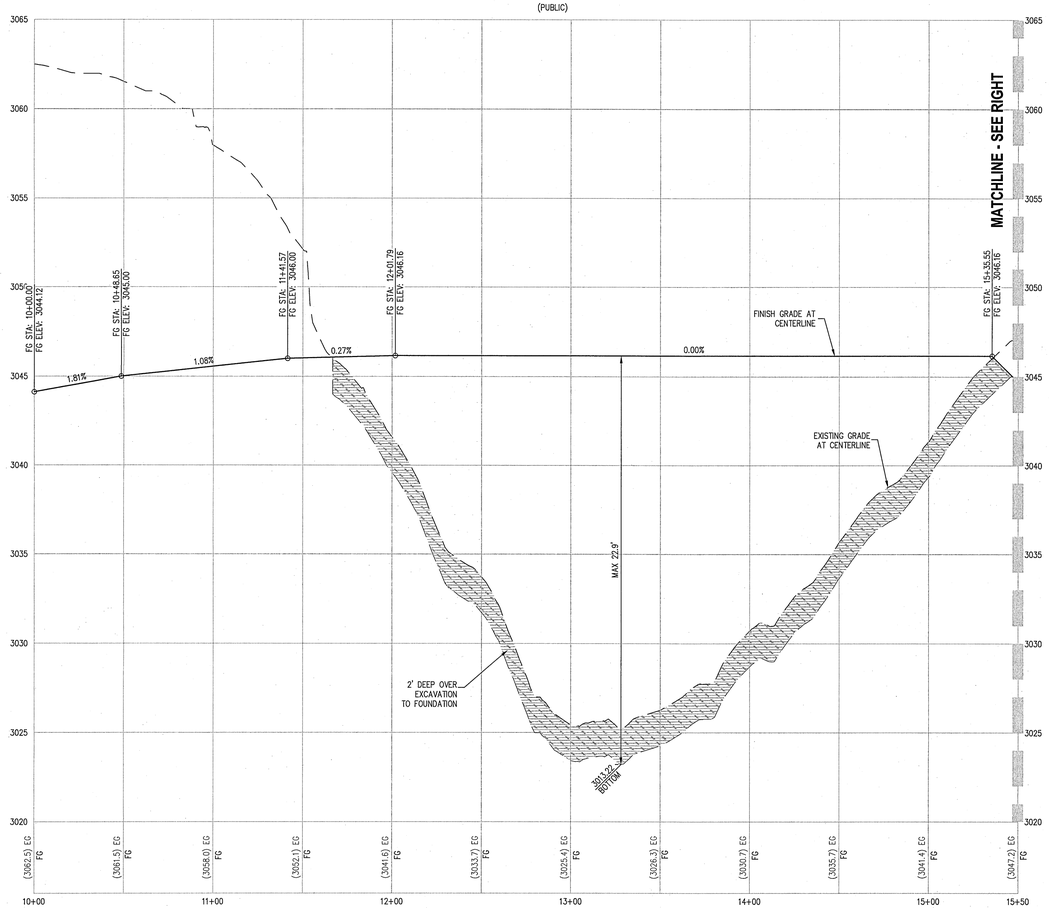

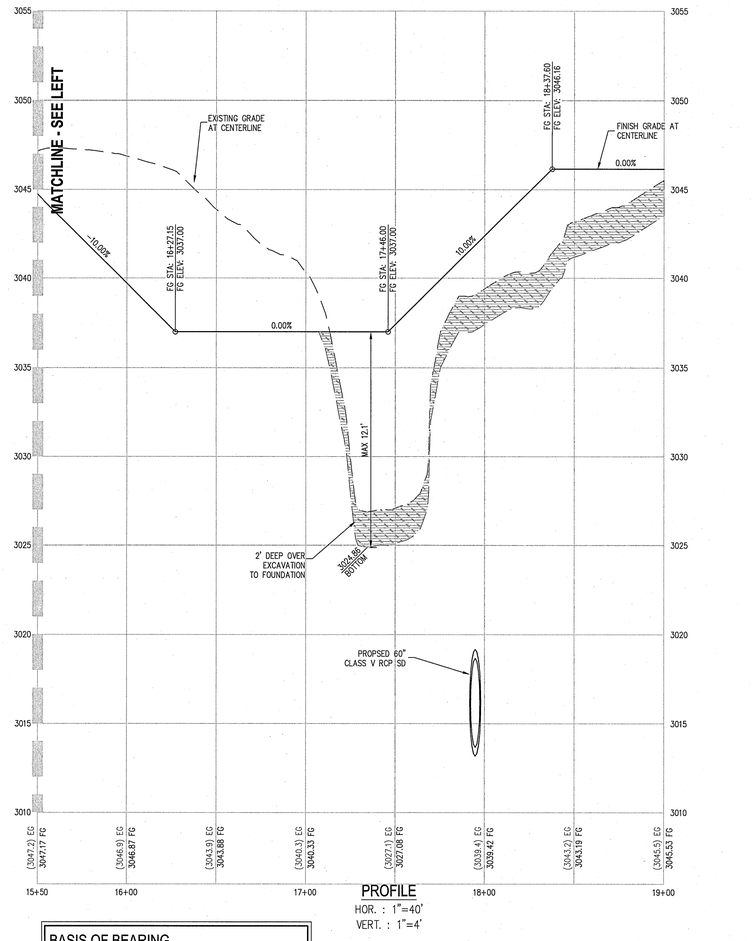

0 40 80
SCALE – 1"=40' FEET

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FLOOD CERTIFICATION

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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

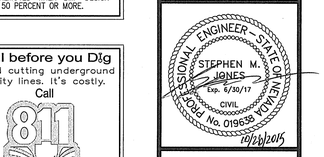
NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

ACCESS ROAD-SPILLWAY - PLAN AND PROFILE I

12S 59E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ
PROJECT NO.
OLY1401.004



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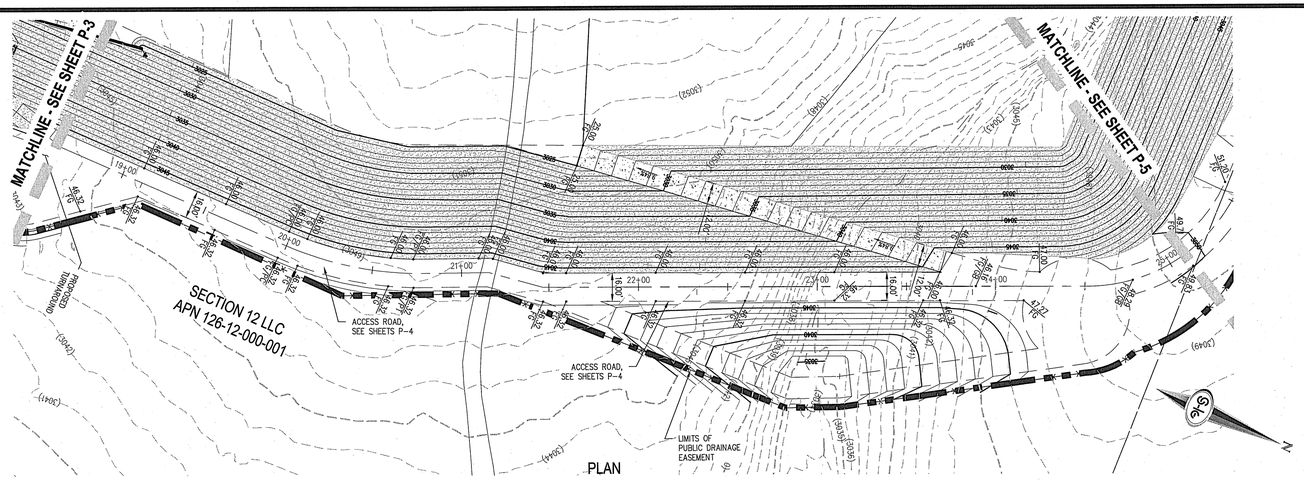

PLAN
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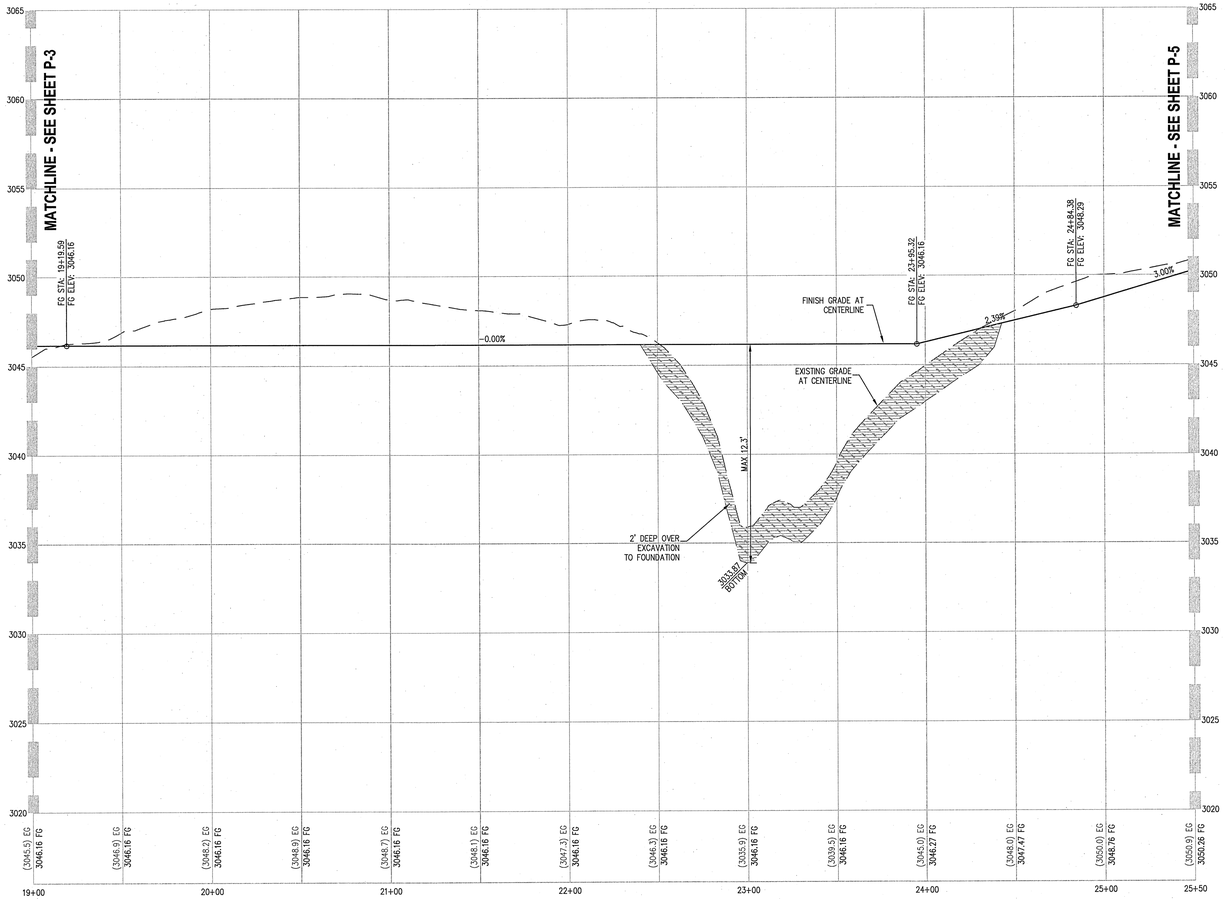
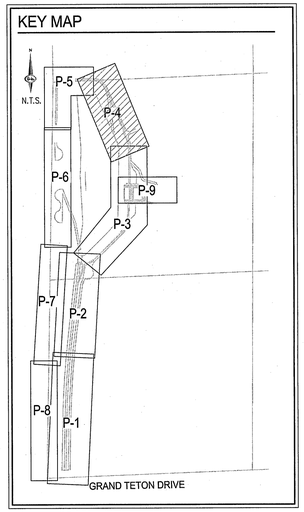


PROFILE
HOR. : 1"=40'
VERT. : 1"=4'



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.
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LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

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.

BASIS OF BEARING

THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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 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 4698 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 II

19S
59E

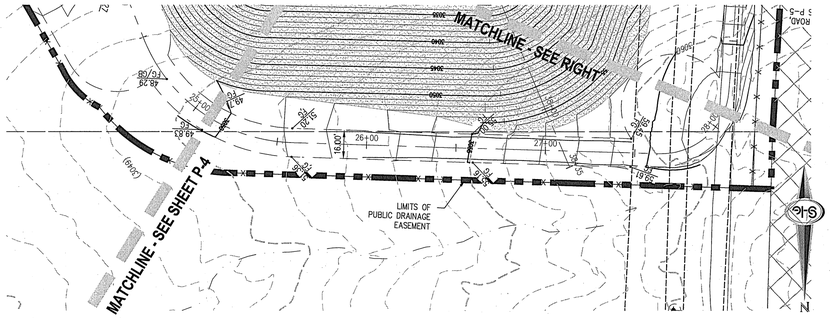
DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/29/2015

P-4
SHEET 26 OF 40

L:\oly1401-004 dbx\Dwg\Improv\detention basin 1\oly1401-004 prob.dwg 10/22/2015 3:46 PM Christopher Schmidt



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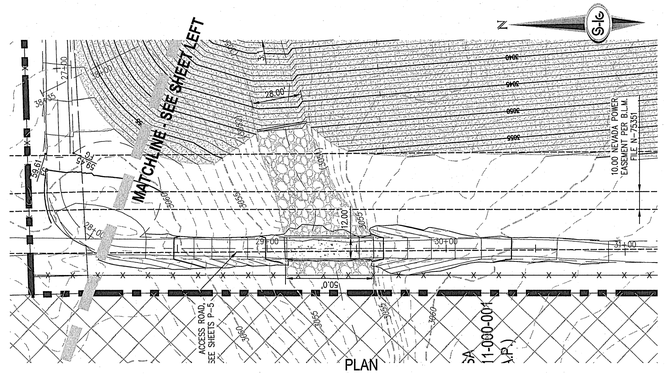

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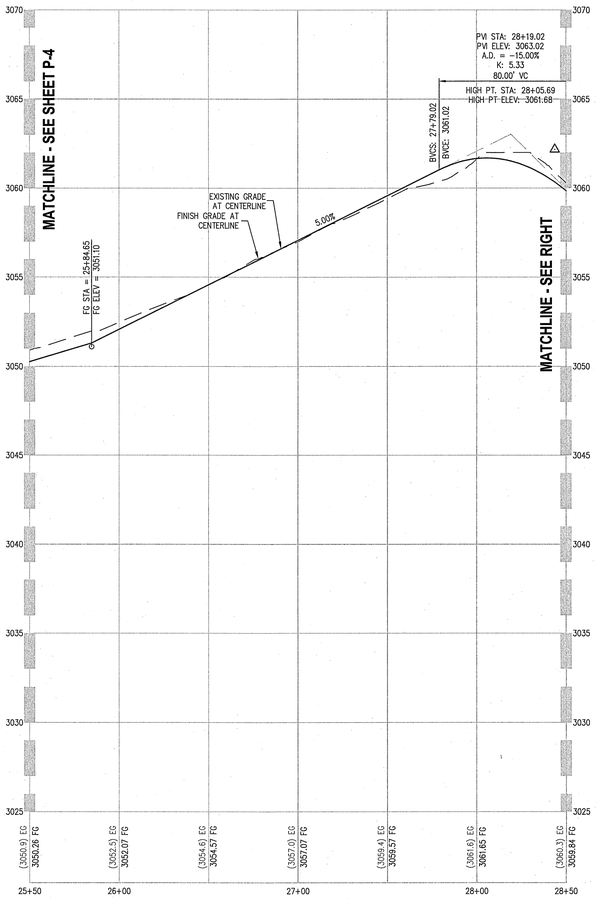

PROFILE
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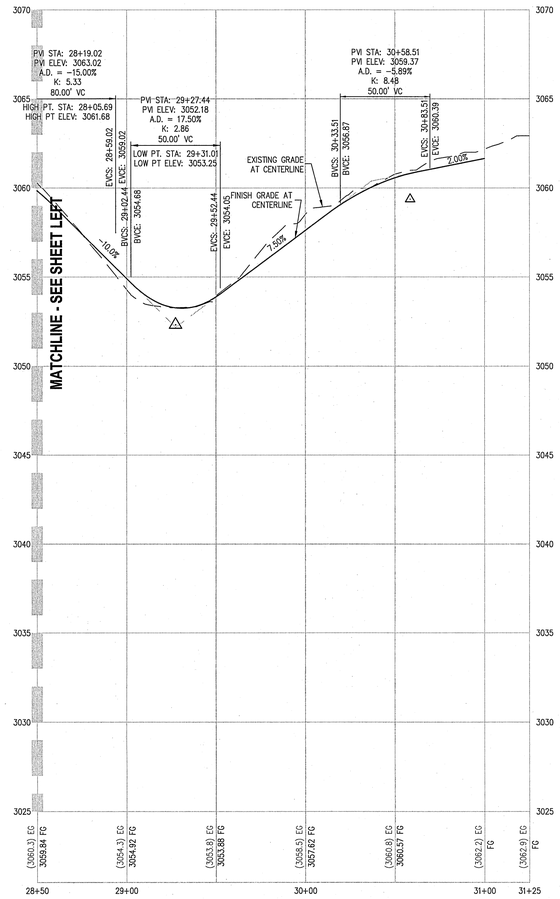
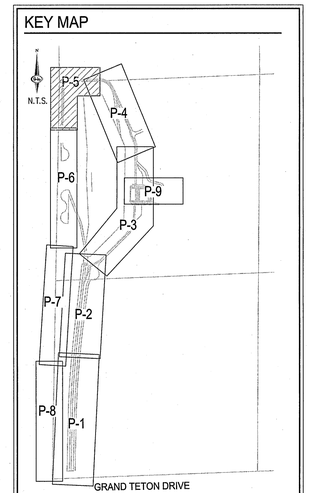
VERT. : 1"=4'



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



0 40 80
SCALE – 1"=40' FEET

STORMWATER RUNOFF MANAGEMENT

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

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LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

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BASIS OF BEARING

THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

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

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

FLOOD CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS_4698__ 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

12S 59E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER - STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/22/2015

P-5
SHEET 27 OF 40

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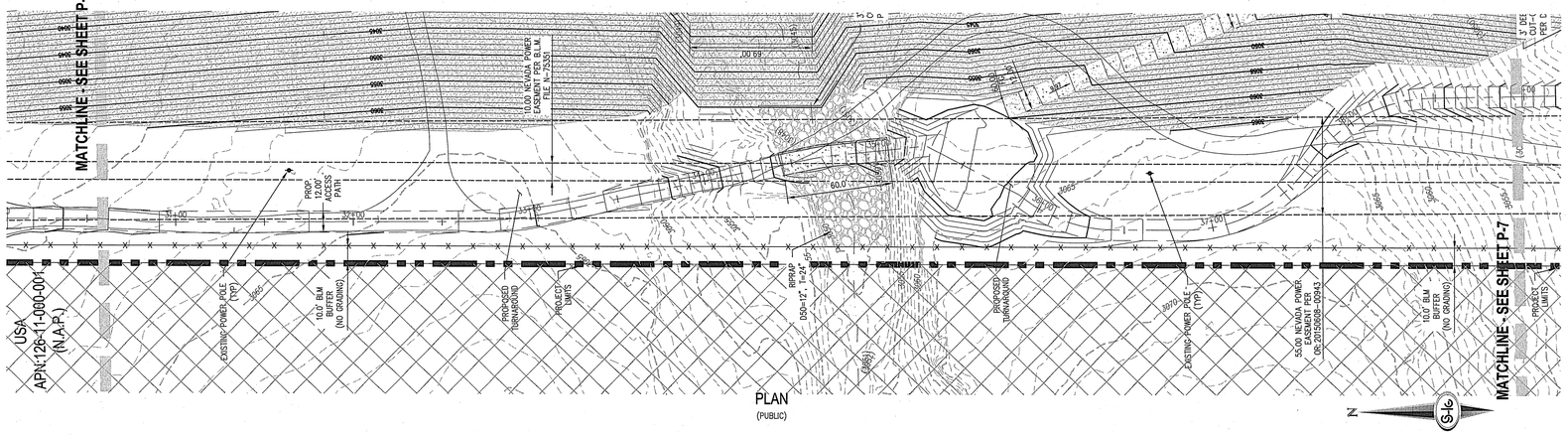
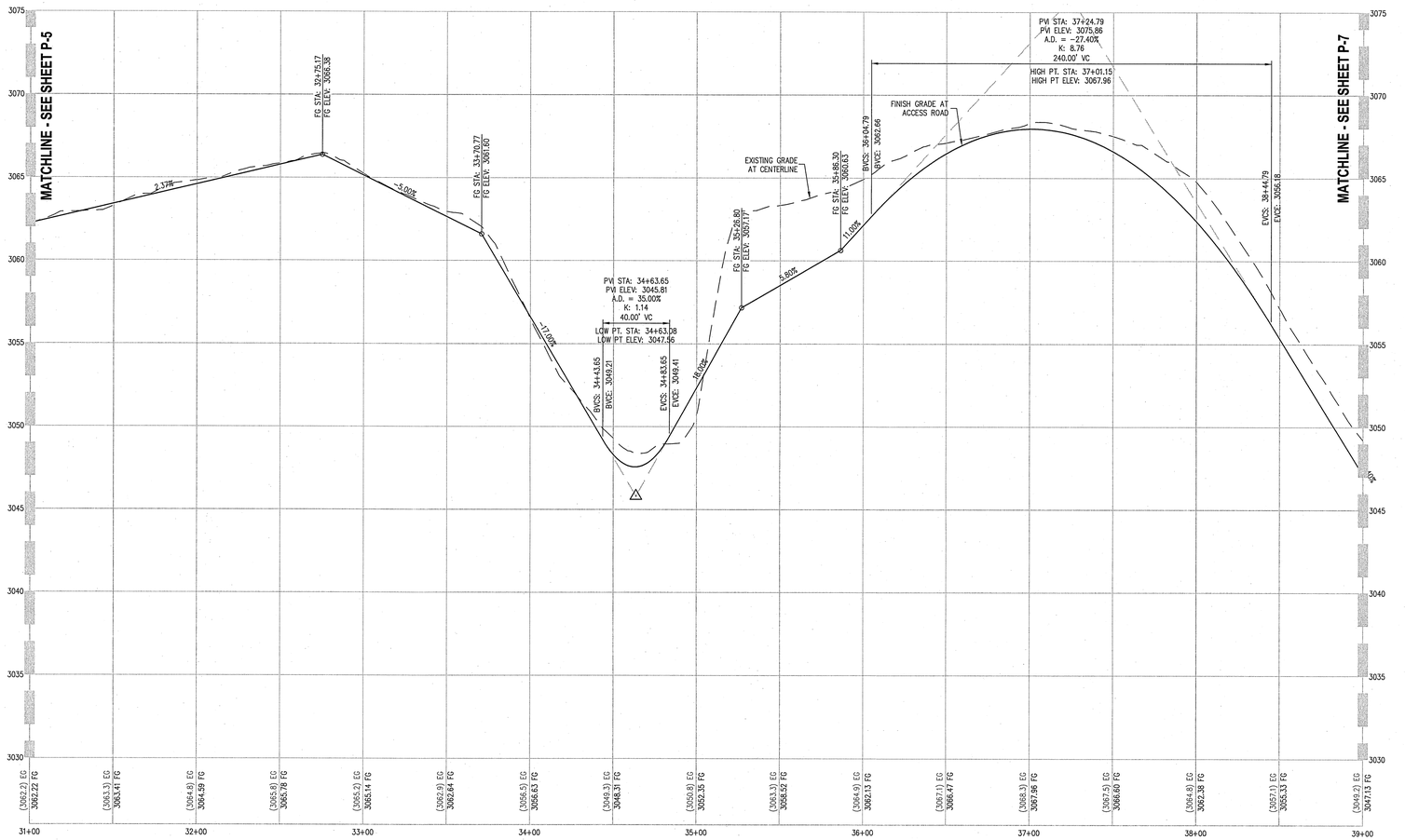
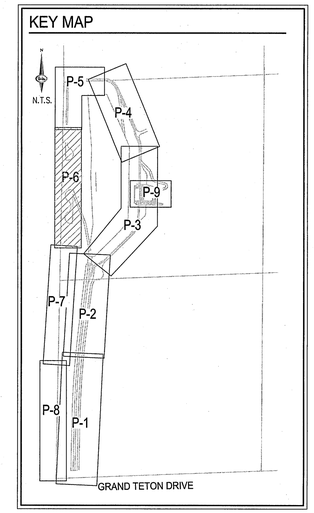




PROFILE
HOR. : 1"=40'
VERT. : 1"=4'



0 40 80
SCALE – 1"=40' FEET

STORMWATER RUNOFF MANAGEMENT

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

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LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

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BASIS OF BEARING

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

BENCHMARK

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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

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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 IV

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/22/2015

P-6
SHEET 28 OF 40

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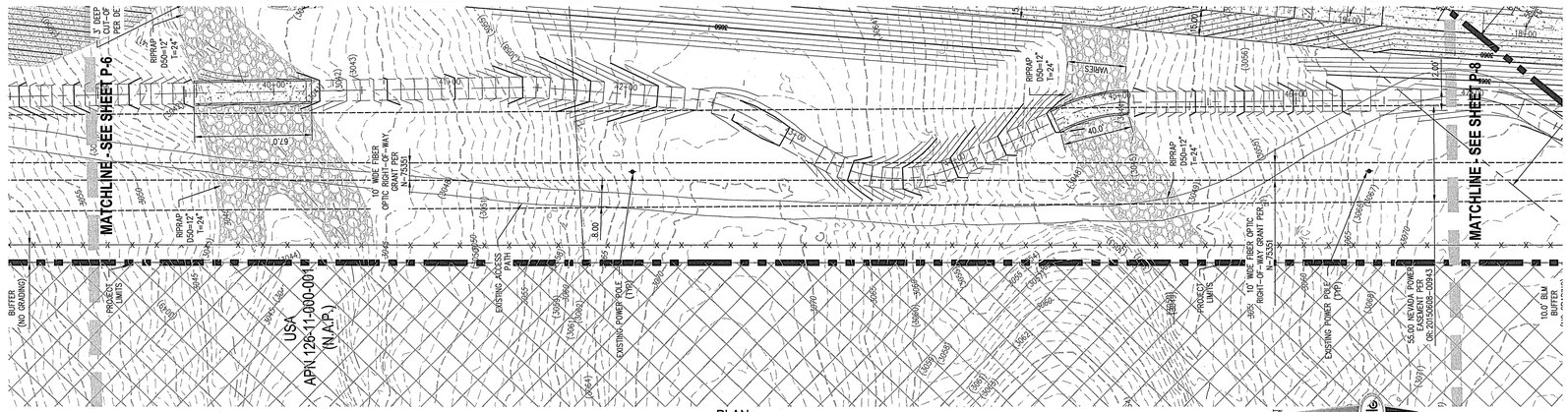

PLAN
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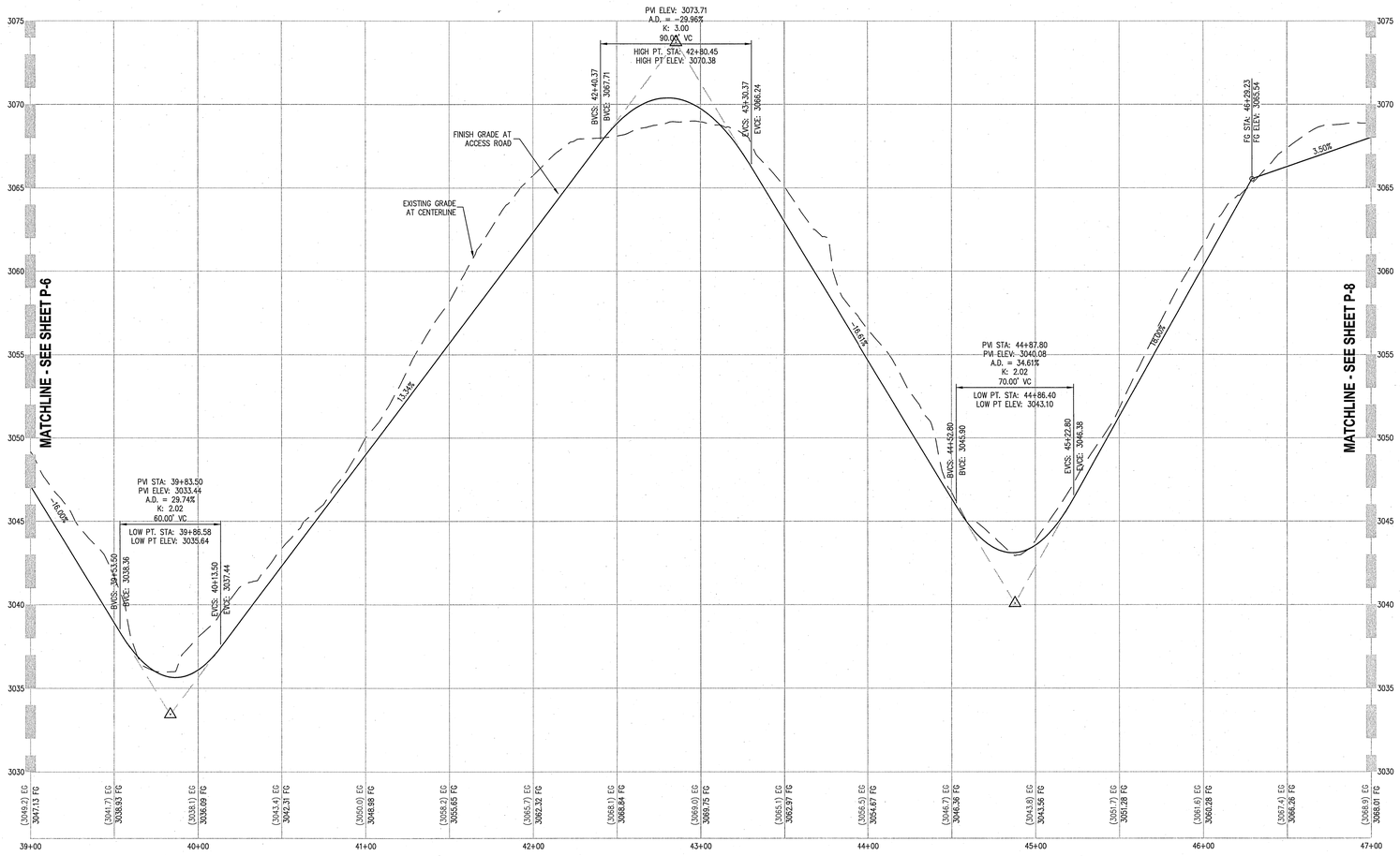
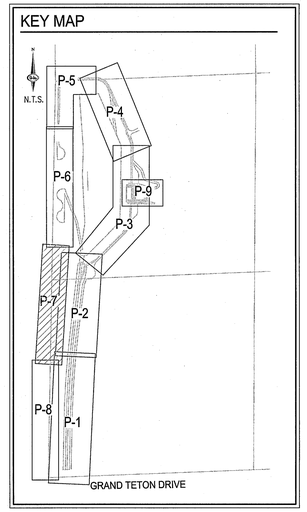


PROFILE
HOR. : 1"=40'
VERT. : 1"=4'



0 40 80
SCALE – 1"=40' FEET

STORMWATER RUNOFF MANAGEMENT

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

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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

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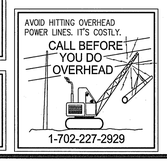
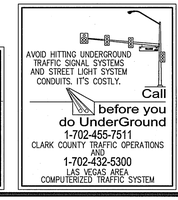
STEPHEN M. JONES, P.E. 019638 DATE





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 V

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER - STATE OF NEVADA
STEPHEN M. JONES
Exp. 6/30/17
CIVIL
No. 019638
10/26/2015

P-7
SHEET 29 OF 40

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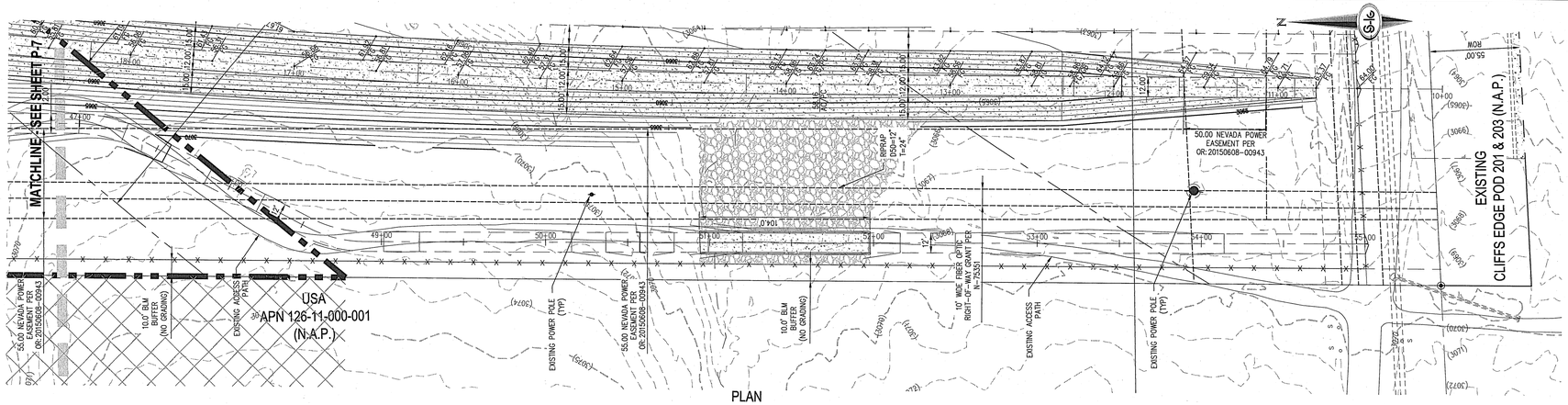
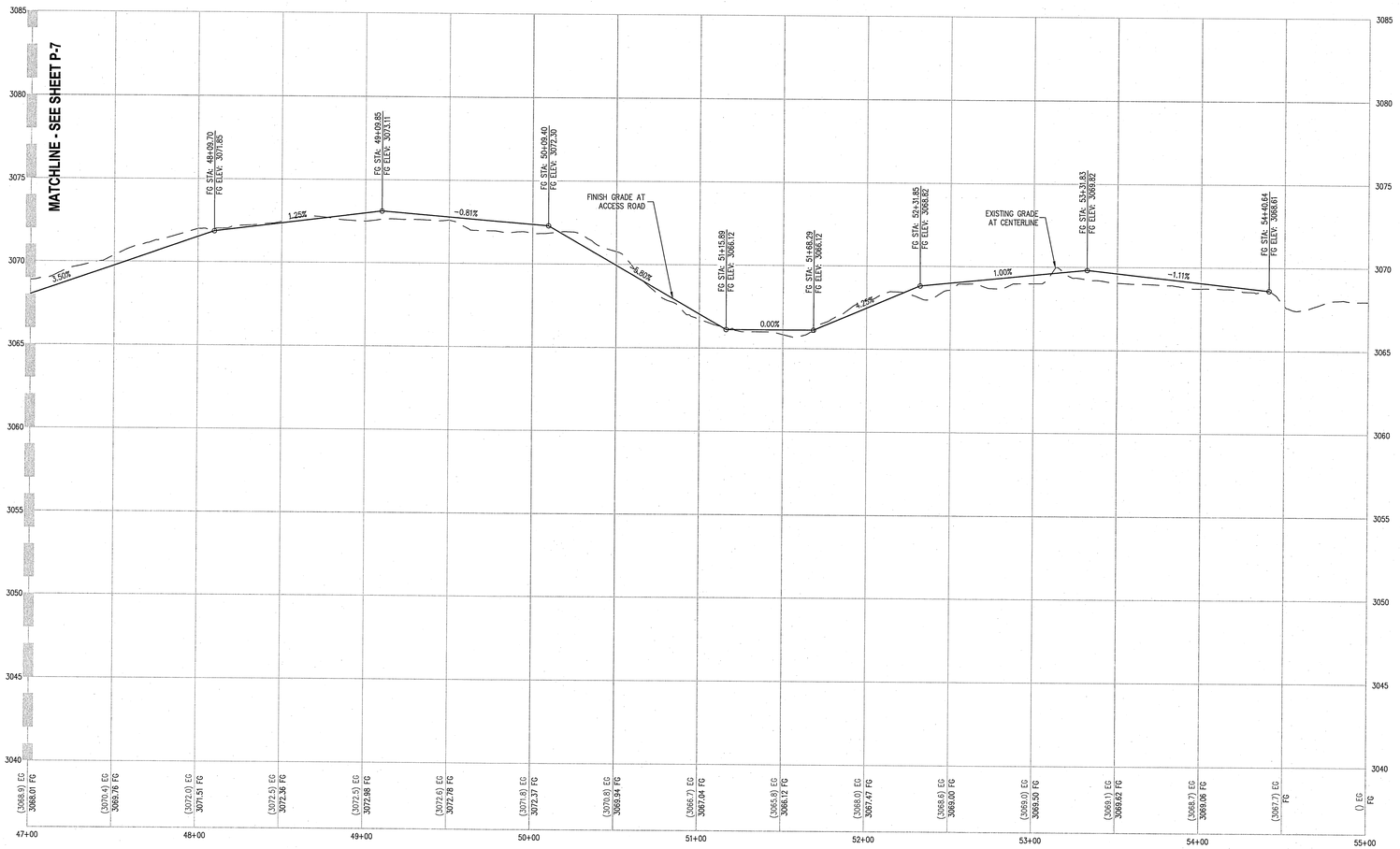
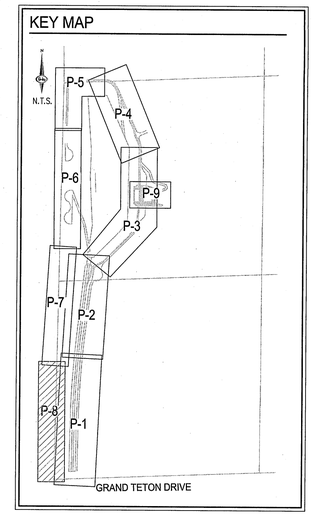


PLAN
(PUBLIC)



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



0 40 80
SCALE – 1"=40' FEET

STORMWATER RUNOFF MANAGEMENT

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

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4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER 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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CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

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

13S 60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

PROFESSIONAL ENGINEER – STATE OF NEVADA
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Exp. 6/30/17
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P-8
SHEET 30 OF 40

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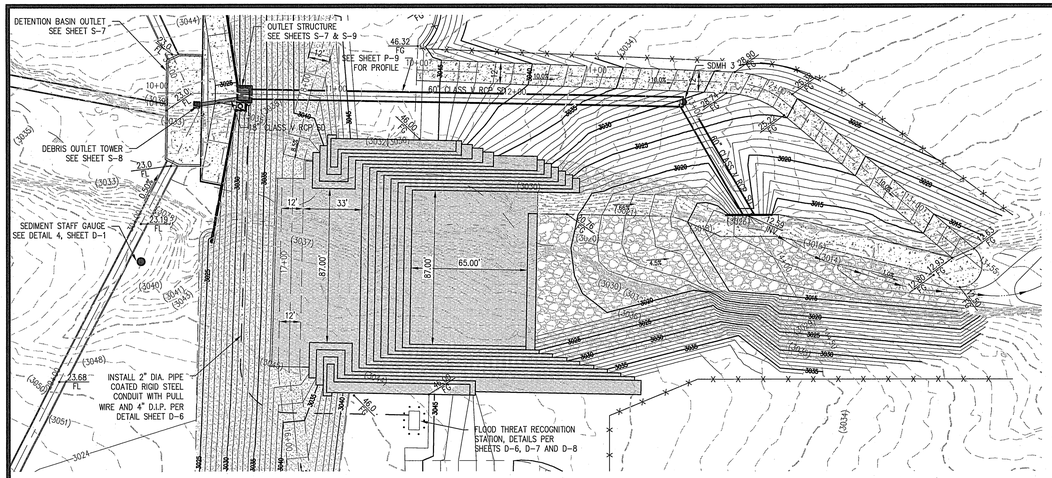

STORM DRAIN PLAN
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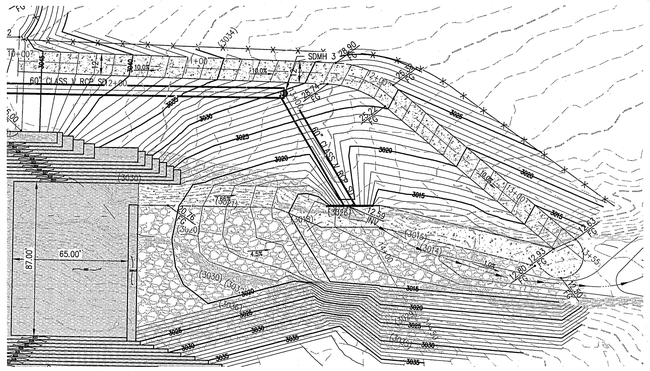
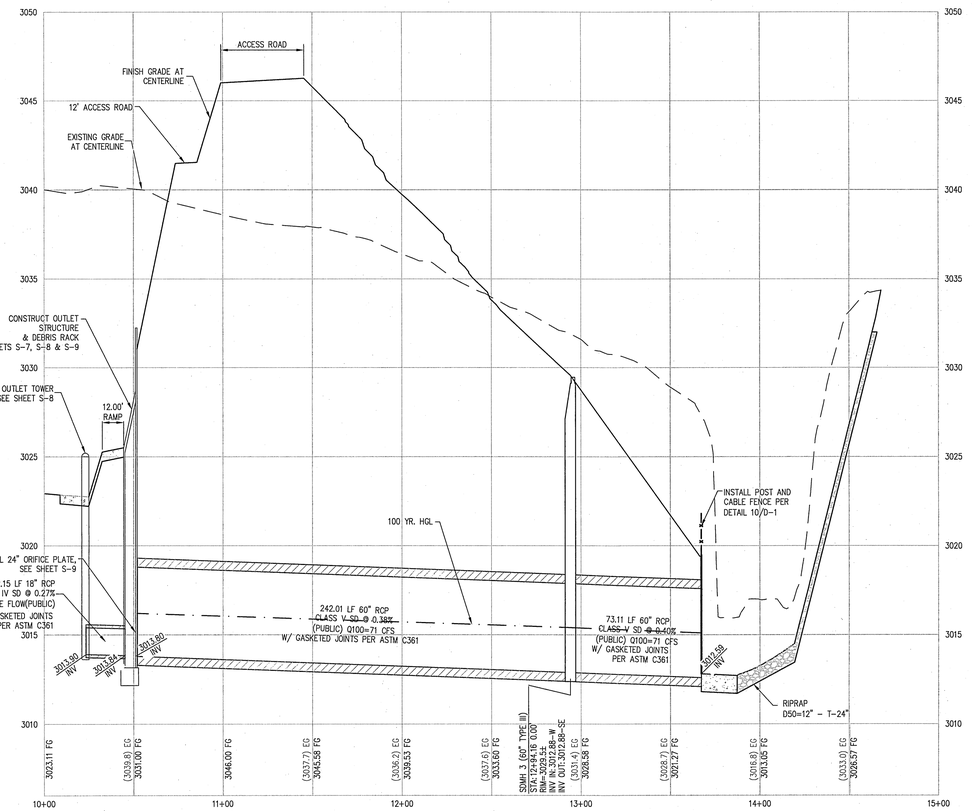


SPILLWAY RAMP PLAN
(PUBLIC)



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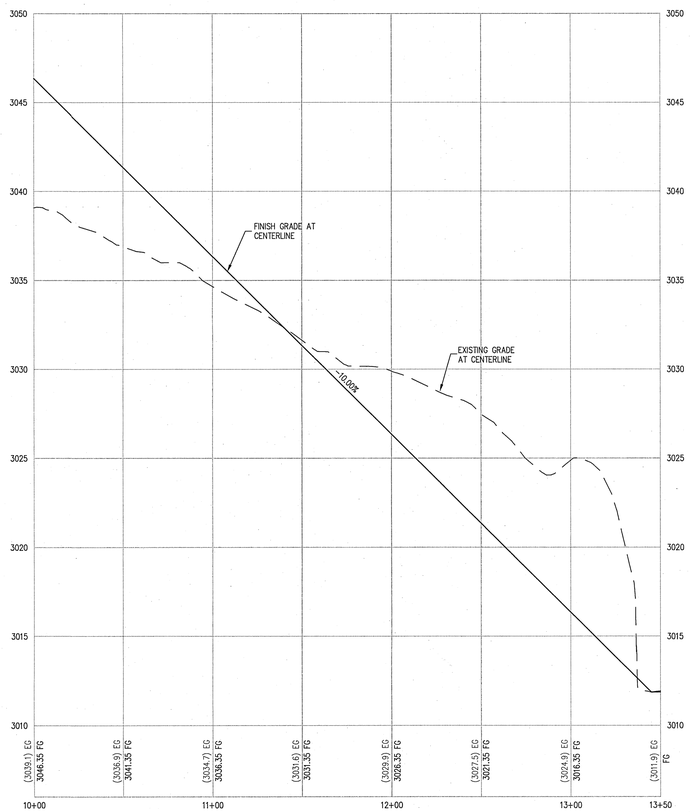

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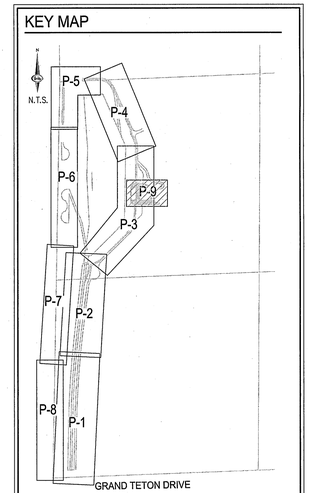

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CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

OUTLET PIPES - PLAN AND PROFILE

12
19S
60E

DATE: 10/22/15
DRAFTER: CS
DESIGNER: BM
CHECKED: SMJ

PROJECT NO.
OLY1401.004

P-9
SHEET 31 OF 40

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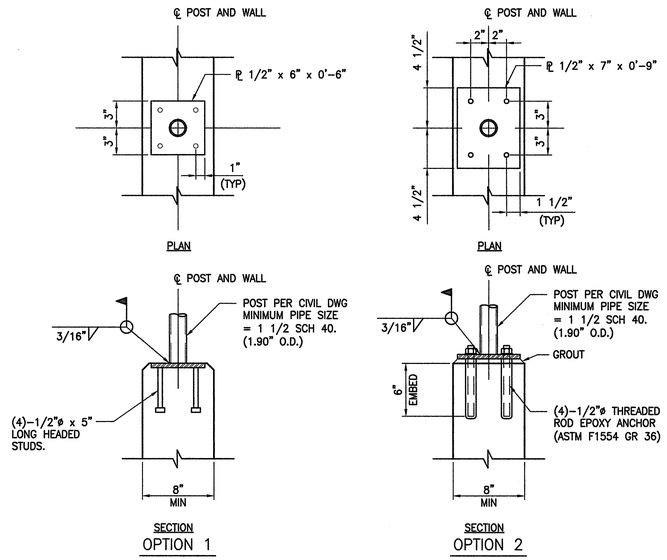
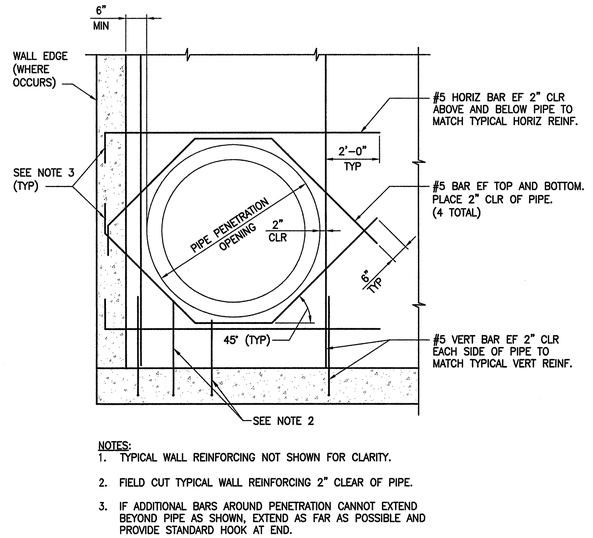
GENERAL STRUCTURAL NOTES

1. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SEVENTH EDITION, 2014.
2. CONSTRUCTION SPECIFICATIONS: CLARK COUNTY UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EXCEPT AS NOTED BELOW AND IN THE SPECIAL PROVISIONS FOR THIS CONTRACT.
3. EXISTING UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK AREA, AND PROVIDING PROTECTION FOR THE VARIOUS UTILITIES AFFECTED PRIOR TO PROCEEDING WITH THE WORK.
4. CONCRETE: CONCRETE SHALL BE CLASS D MODIFIED AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF f'c=4,500 PSI AND A MAXIMUM WATER TO CEMENT RATIO, BY WEIGHT, OF 0.45. USE TYPE V CEMENT PER ASTM C-150. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
5. REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE AASHTO M31 GRADE 60 (ASTM A615 GRADE 60). DIMENSIONS ARE FROM OUT TO OUT OF BARS. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 2" UNLESS NOTED OTHERWISE. HOOKS MAY BE ROTATED OR TILTED AS NECESSARY TO PROVIDE THE PROPER CLEARANCES.
6. BEDDING MATERIAL: BEDDING MATERIAL SHALL BE 6-INCHES OF TYPE II AGGREGATE BASE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY. EXPOSED NATIVE SOILS IN BOTTOMS OF EXCAVATIONS SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES, MOISTURE-CONDITIONED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90%.
7. EPOXY: EPOXY SHALL BE SIMPSON STRONG-TIE "SET-XP EPOXY-TIE ADHESIVE" PER ICC REPORT ESR-2508 OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
8. STRUCTURAL STEEL: ALL MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. ALL HSS TUBE SHAPE SHALL BE ASTM A500, GRADE B. ALL W-SECTIONS SHALL BE ASTM A992. ALL PIPE SECTIONS SHALL BE ASTM A53 GR. B.
9. GALVANIZING: ALL EXPOSED METAL AND METAL PARTS SHALL BE GALVANIZED. GALVANIZING DAMAGED BY FABRICATION SHALL RECEIVE TWO COATS OF ZINC RICH PAINT (GALVANOX OR EQUAL).
10. INVERTS, SLOPES, BEARINGS, ALIGNMENTS, AND ELEVATIONS SHOWN ARE FOR "REFERENCE ONLY". INFORMATION ON CIVIL DRAWINGS SHALL GOVERN.
11. CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING, AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES, AND UNDERGROUND ITEMS.
12. THE 6-FOOT WIDE CONCRETE FLUME SHOWN ON CIVIL DETAIL 2/D-1 SHALL HAVE EXPANSION / CONTROL JOINTS AS SIMILARLY SHOWN FOR THE TRAPEZOID CHANNEL ON DETAIL 1/S-2.

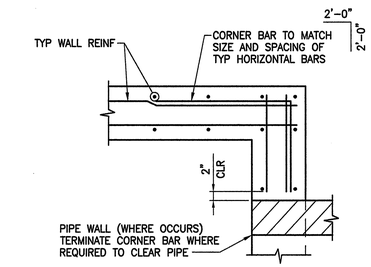


5 POST CONNECTION DETAIL
SCALE: NTS

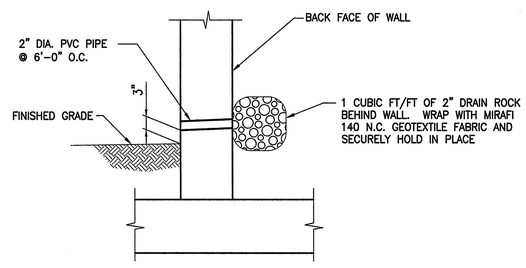


NOTES:
1. TYPICAL WALL REINFORCING NOT SHOWN FOR CLARITY.
2. FIELD CUT TYPICAL WALL REINFORCING 2" CLEAR OF PIPE.
3. IF ADDITIONAL BARS AROUND PENETRATION CANNOT EXTEND BEYOND PIPE AS SHOWN, EXTEND AS FAR AS POSSIBLE AND PROVIDE STANDARD HOOK AT END.

3 TYP. PIPE PENETRATION DETAIL
SCALE: NTS

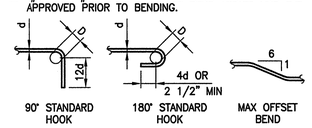


2 TYPICAL CORNER DETAIL
SCALE: NTS



4 TYP. WALL WEEPHOLE DETAIL
SCALE: NTS

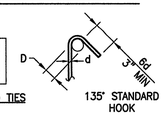
BEND NOTES:
1. ALL BENDS SHALL BE MADE COLD.
2. #14 AND #18 BARS SHALL BE BEND TESTED AND LAB APPROVED PRIOR TO BENDING.



D=6d FOR #3 TO #8
D=8d FOR #9 TO #11
D=10d FOR #14 AND #18

PRINCIPAL REINFORCING

MIN D=1 1/2" FOR #3
MIN D=2" FOR #4
MIN D=2 1/2" FOR #5



STIRRUPS AND TIES
135° STANDARD HOOK

BAR BENDS

BAR SIZE	LAP CLASS	f'c = 4500 psi TOP BARS CASE 1	TOP BARS CASE 2	OTHER BARS CASE 1	OTHER BARS CASE 2
#3	A	18	27	14	21
	B	23	35	18	27
#4	A	24	35	18	27
	B	31	46	24	35
#5	A	30	44	23	34
	B	38	57	30	44
#6	A	35	53	27	41
	B	46	69	35	53
#7	A	51	77	40	59
	B	67	100	51	77
#8	A	59	88	45	68
	B	76	114	59	88
#9	A	66	99	51	76
	B	86	128	66	99
#10	A	74	111	57	86
	B	96	144	74	111
#11	A	82	123	64	95
	B	107	160	82	123

LAP SCHEDULE

LAP SPLICE NOTES:
1. TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINF BARS.
2. CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.
3. TOP BARS ARE HORIZ BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
4. LAP SPLICES OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2 Ld FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 Ld FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED AT THE SAME LOCATION. SPLICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.
5. Ld-ACI LAP LENGTH, SHOWN AT RIGHT, (IN INCHES).
6. CASE SELECTION:
   - -FOR FOUNDATION REINFORCING USE CASE 1 UNO
   - -FOR COLUMN REINFORCING AND DOWELS USE CASE 1 UNO
   - -FOR BEAM REINFORCING USE CASE 1 UNO
   - -FOR STRUCTURAL SLAB REINFORCING USE CASE 2 UNO
   - -FOR SLAB ON GRADE REINFORCING USE CASE 1 UNO
   - -FOR WALL REINFORCING AND DOWELS USE CASE 1 (EXCEPT AS NOTED BELOW) UNO
   - -FOR WALLS WITH A SINGLE MAT OF STEEL CENTERED IN THE WALL, USE CASE 1 FOR WALL REINFORCING AND DOWELS UNO
   - -FOR CHORD STEEL REINFORCING USE CASE 2 UNO
   - -FOR DRILLED SHAFTS USE CASE 1 UNO

1 REINFORCING BAR BEND AND LAP SPLICE DETAIL
SCALE: NTS

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

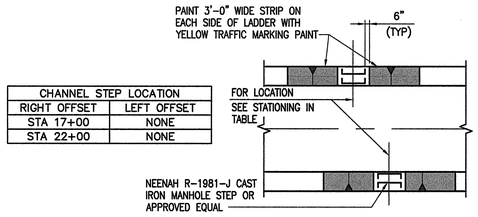
13
19S
60E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. 787-100

PROFESSIONAL ENGINEER — ERIC G. GILES — Exp. 06/30/2017 — CIVIL / STRUCTURAL — No. 14570 — STATE OF NEVADA
10/21/15

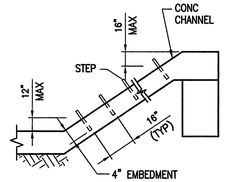
S-1
SHEET 32 OF 40

PLT_STMP



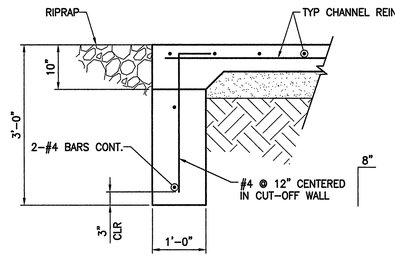
CHANNEL STEP LOCATION	
RIGHT OFFSET	LEFT OFFSET
STA 17+00	NONE
STA 22+00	NONE

TRAPEZOIDAL CHANNEL

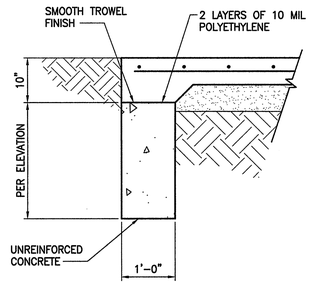


SECTION

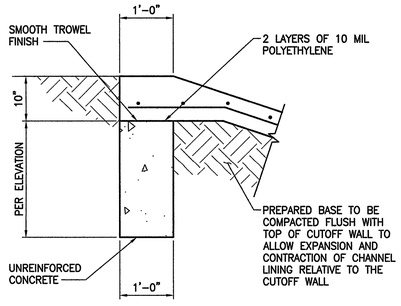
9 CHANNEL STEP DETAIL
SCALE: NTS



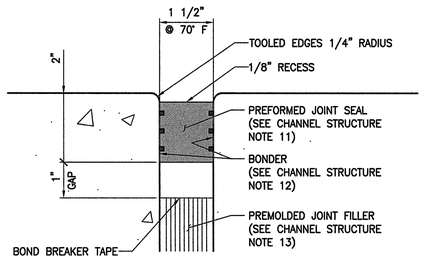
12 CUTOFF WALL AT CHANNEL END
SCALE: NTS



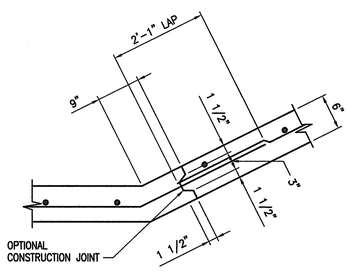
11 LONGITUDINAL CUTOFF WALL
SCALE: NTS



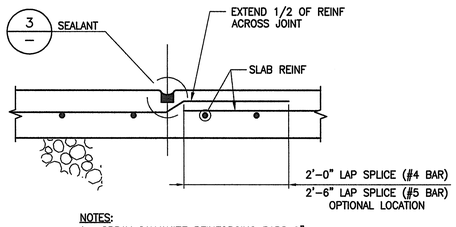
10 LONGITUDINAL CUTOFF WALL
SCALE: NTS



8 SLAB EXPANSION JOINT
SCALE: NTS

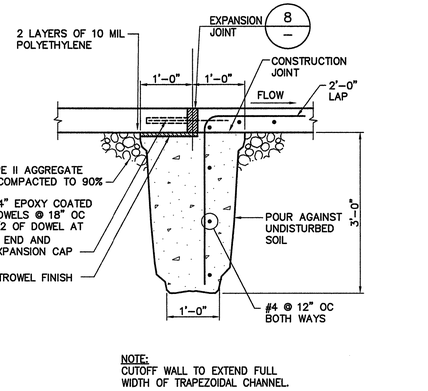


7 KEYED JOINT DETAIL
SCALE: NTS



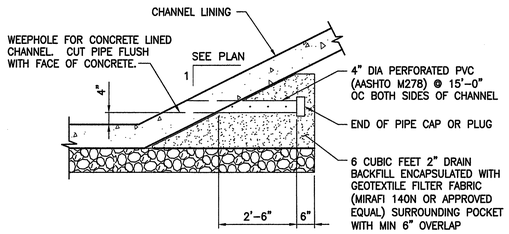
NOTES:
1. SPRAY GALVANIZE REINFORCING BARS 9" EACH SIDE OF WEAKENED PLANE JOINT.
2. CONSTRUCTION JOINTS ARE ALLOWED AT LONGITUDINAL JOINTS.

6 WEAKENED PLAN JOINT
SCALE: NTS

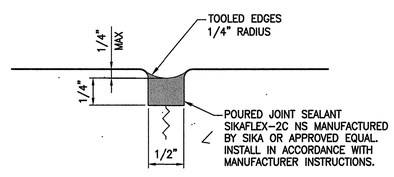


NOTE:
CUTOFF WALL TO EXTEND FULL WIDTH OF TRAPEZOIDAL CHANNEL.

5 TRANSVERSE CUTOFF WALL AND EXPANSION JOINT
SCALE: NTS

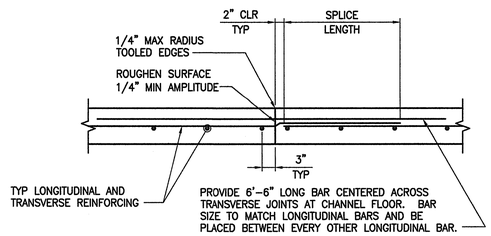


4 TRAP. CHANNEL WEEPHOLE
SCALE: NTS

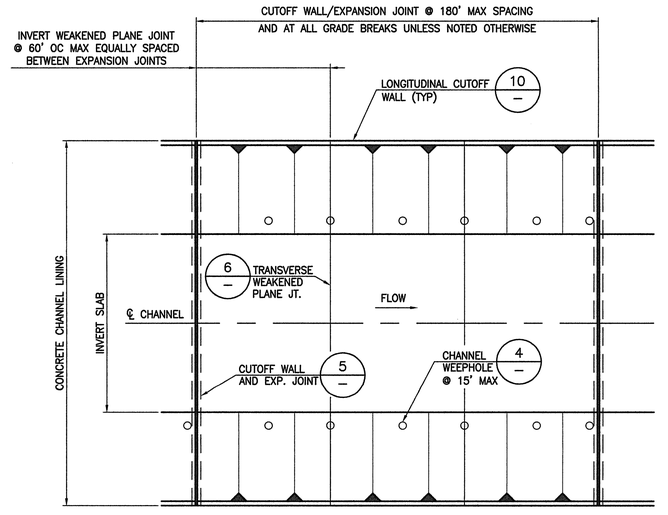


NOTE:
JOINT MUST BE TOOLED, SAW-CUTTING IS NOT ALLOWED.

3 SEALANT DETAIL
SCALE: NTS



2 CONSTRUCTION JOINT DETAIL
SCALE: NTS



1 PLAN - CONCRETE LINED TRAP CHANNEL
SCALE: NTS

CHANNEL STRUCTURE NOTES

1. TRANSVERSE AND LONGITUDINAL JOINTS IN INVERT SLAB AND SIDE SLOPE OF PAVED TRAPEZOIDAL CHANNELS AND WALLS FOR RECTANGULAR CHANNELS WILL BE REQUIRED AT THE END OF EACH CONTINUOUS POURING OPERATION. SEE TYPICAL CONSTRUCTION JOINT DETAIL. TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 3-FEET OF A MANHOLE, WITHIN 10-FEET OF JUNCTION STRUCTURE OPENINGS, OR WITHIN 50 FEET OF AN EXPANSION JOINT.
2. ALL TRANSVERSE JOINTS IN WALLS AND SLABS (CONSTRUCTION, WEAKENED, CONTRACTION AND EXPANSION) SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED UNLESS SHOWN OTHERWISE. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO CENTERLINE OF CONSTRUCTION.
3. ALL SINGLE LAYER REINFORCEMENT SHALL BE PLACED IN THE CENTER OF CONCRETE UNLESS NOTED OTHERWISE.
4. IN CURVED CHANNEL SECTIONS, TRANSVERSE BARS SHALL BE PLACED NORMAL TO THE CHANNEL CENTERLINE.
5. IN CURVED CHANNEL SECTIONS, THE MAXIMUM SPACING OF BARS SHALL NOT EXCEED THAT SHOWN FOR TYPICAL SECTIONS. STEEL SHALL BE PLACED RADIALLY FROM THE MAXIMUM SPACING.
6. IN CURVED CHANNEL SECTIONS, TRANSVERSE JOINTS SHALL BE NORMAL TO CENTERLINE AND SHALL NOT EXCEED 60' MAX SPACING.
7. AT THE BEGINNING AND ENDING OF ALL POURS, A COMPLETE CURTAIN OF MAIN REINFORCEMENT SHALL BE PLACED 3-INCHES FROM THE TRANSVERSE CONSTRUCTION, CONTRACTION AND EXPANSION JOINTS.
8. WEEPHOLES ARE REQUIRED AT 15-FEET OC ON EACH SIDE OF CHANNEL PER THE TYPICAL WEEPHOLE DETAIL FOR ALL OPEN CHANNEL STRUCTURES.
9. WEAKENED PLANE JOINTS TO BE CENTERED WITH WEEPHOLES WHEN JOINTS OCCUR.
10. DO NOT LOCATE CUTOFF WALLS WHERE A CONFLICT WITH EXISTING UTILITIES WILL OCCUR.
11. PREFORMED EXPANSION JOINT SEAL: PHYZITE 380 WITH H.A.L.S. MANUFACTURED BY CHASE CONSTRUCTION PRODUCTS OR APPROVED EQUAL. SIZE AND INSTALL SEAL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. THE WIDTH OF THE SEAL SHALL BE 25% GREATER THAN THE WIDTH OF THE JOINT AT THE TIME OF INSTALLATION. MEASURE WIDTH OF JOINT AFTER INITIAL SHRINKAGE AND THERMAL MOVEMENT HAS OCCURRED. ALL JOINTS IN THE COMPRESSION SEAL SHALL BE HEAT WELDED. THE JOINT MATERIAL SHALL HAVE E.S.P. (ENGINEERED SURFACE PREPARATION) GROOVES PER MANUFACTURER RECOMMENDATIONS.
12. BONDER: EVA-POX BONDER NO. 1 MANUFACTURED BY CHASE CONSTRUCTION PRODUCTS OR APPROVED EQUAL. APPLY TO BOTH SIDES OF SEAL AND CONCRETE. BONDER SHALL FILL THE GROOVES OF THE SEAL.
13. PREMOLDED JOINT FILLER: EVA-SEAL 30 WITH 2" TERRA-STRIP MANUFACTURED BY CHASE CONSTRUCTION PRODUCTS OR EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

TYPICAL CONCRETE CHANNEL NOTES / DETAILS

12S 60E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. 787-100

PROFESSIONAL ENGINEER STATE OF NEVADA ERIC G. GILES Exp. 06/30/2017 CIVIL / STRUCTURAL No. 14570 10/21/15

S-2
SHEET 33 OF 40

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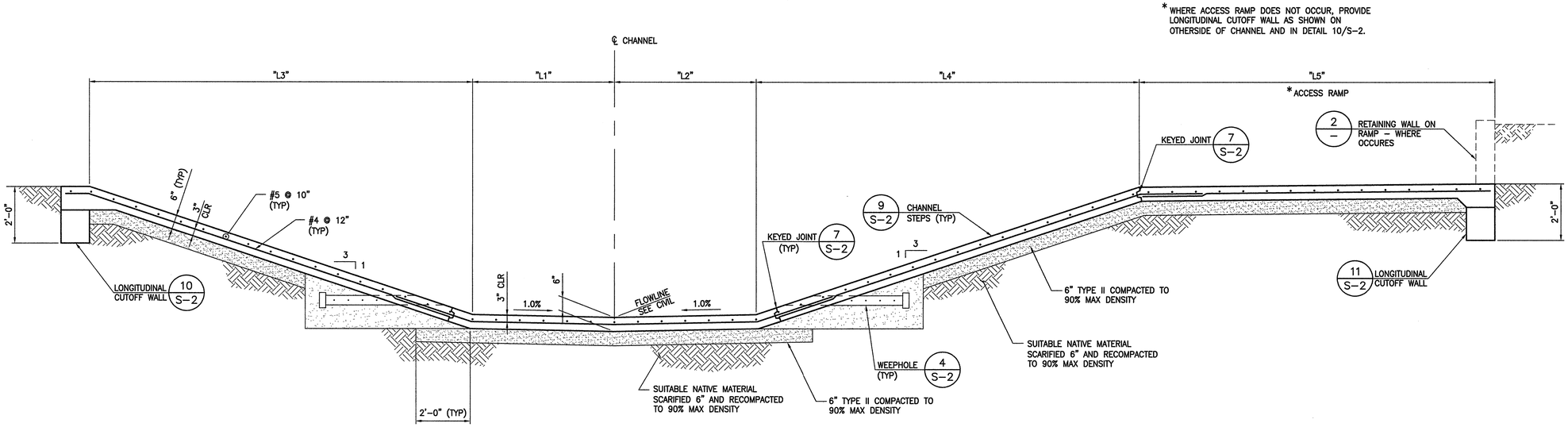


(LOOKING AHEAD ON STATION)

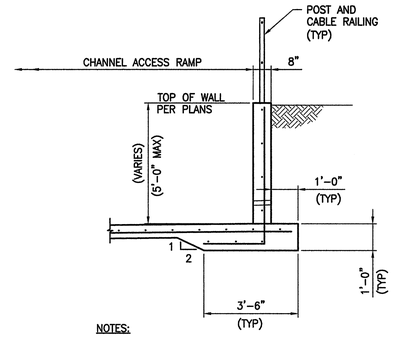
1 – TYPICAL TRAPEZOIDAL CHANNEL SECTION

SCALE: 1/2" = 1'-0"

CHANNEL SCHEDULE

CHANNEL REACH (STATION)	FLOOR WIDTH "L1"	FLOOR WIDTH "L2"	SIDESLOPE WIDTH "L3"	SIDESLOPE WIDTH "L4"	ACCESS RAMP WIDTH "L5"	COMMENTS
STA 10+76.87 TO STA 12+31.59	6.00'	6.00'	0.00' TO 15.00'	0.00' TO 15.00'	NO RAMP	–
STA 12+31.59 TO STA 20+12.13	6.00'	6.00'	15.00'	15.00'	NO RAMP	–
STA 20+12.13 TO STA 23+16.84	6.00'	6.00'	15.00'	15.00' TO 18.95'	NO RAMP	–
STA 23+16.84 TO STA 23+57.18	6.00'	6.00'	15.00'	18.95'	0.00' TO 10.71'	–
STA 23+57.18 TO STA 24+28.03	6.00'	6.00'	15.00'	18.95' TO 0.00'	12.34'	FOR THE FIRST 3.21 FEET (FROM STA 23+57.18 TO 23+60.39), "L5" VARIES LINEARLY FROM 10.71' TO 12.34'. SEE CIVIL PLAN.
STA 24+28.03 TO STA 24+60.28						SEE PLAN VIEW – DETAIL 1/S-4

NOTES:
1. SEE CIVIL DRAWINGS FOR CHANNEL PLAN VIEW.
2. SEE DETAIL 1/S-2 FOR TYPICAL CHANNEL PLAN (SCHEMATIC).
3. DIMENSIONS VARY LINEARLY UNLESS SHOWN OTHERWISE ON PLAN VIEW.



NOTES:
1. RETAINING WALL IS FROM STA 23+76.28 TO 24+60.28
2. SEE PLAN VIEW OF WALL ON 1/S-4 AND DETAIL B/S-5 FOR WALL REINFORCING.

2 – RETAINING WALL ON ACCESS RAMP

SCALE: 3/8" = 1'-0"

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CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

TYPICAL TRAPEZOIDAL CHANNEL SECTION AND SCHEDULE

19 / 19S / 60E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. 787-100

PROFESSIONAL ENGINEER STATE OF NEVADA ERIC G. GILES Exp. 06/30/2017 CIVIL / STRUCTURAL No. 14570
5/21/15

S-3
SHEET 34 OF 40

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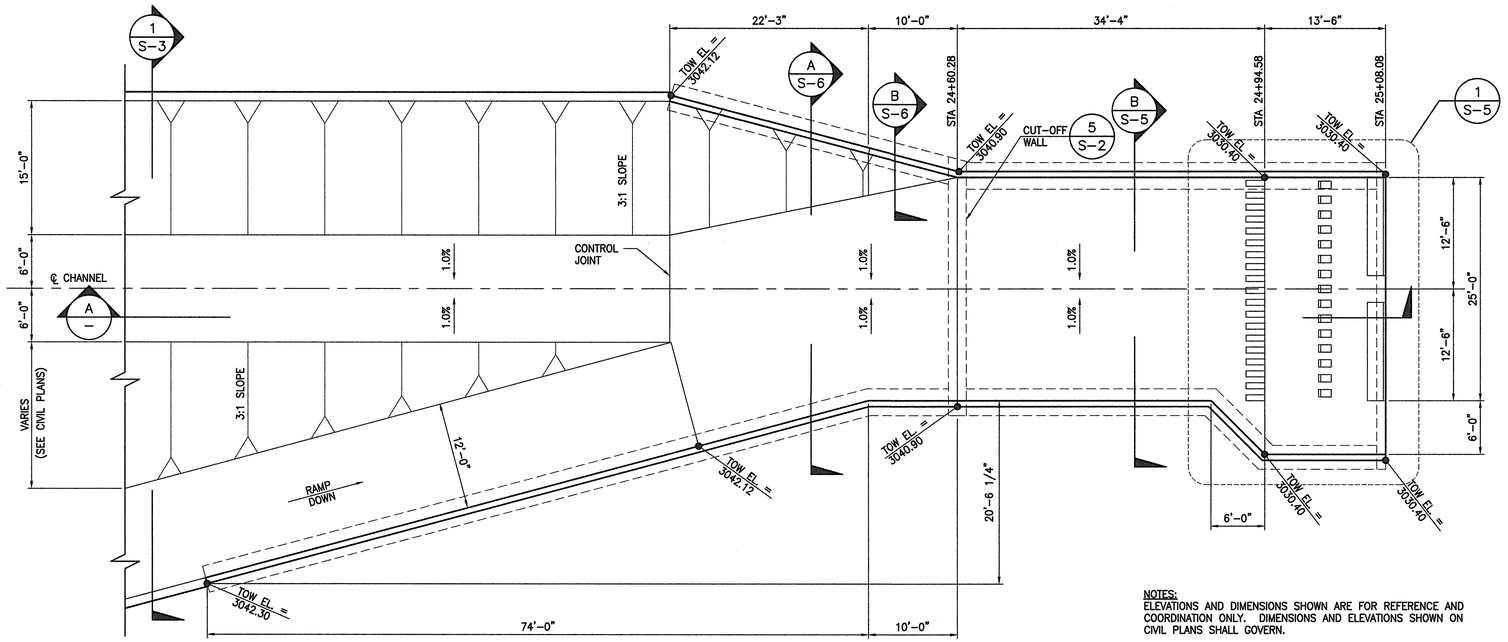
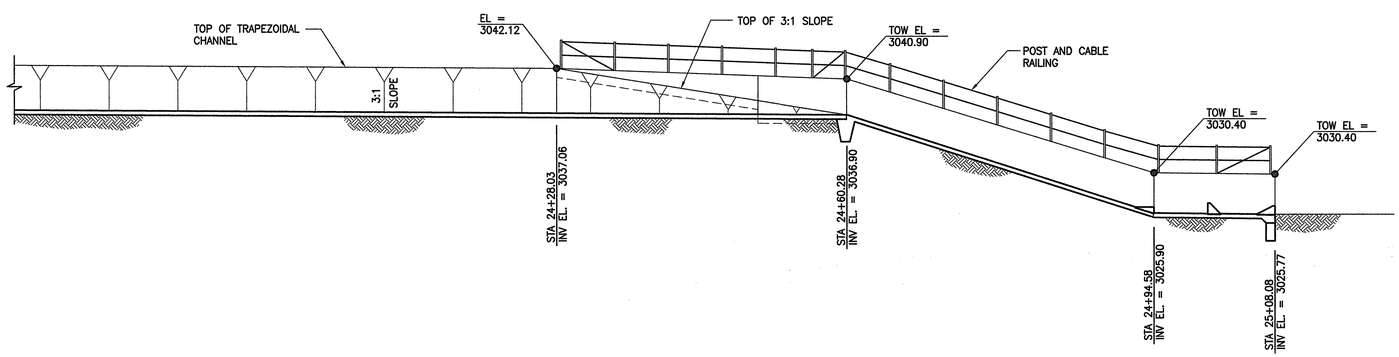


NOTES:
ELEVATIONS AND DIMENSIONS SHOWN ARE FOR REFERENCE AND COORDINATION ONLY. DIMENSIONS AND ELEVATIONS SHOWN ON CIVIL PLANS SHALL GOVERN.

1 PLAN
SCALE: 1/8" = 1'-0"



A ELEVATION
SCALE: 1/8" = 1'-0"

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CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

ENLARGED STRUCTURAL PLAN VIEW - CONCRETE CHANNEL

12S 60E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. 787-100

PREPARED UNDER THE SUPERVISION OF
ERIC G. GILES
Exp. 06/30/2017
CIVIL / STRUCTURAL
No. 14570
STATE OF NEVADA
10/21/15

S-4
SHEET 35 OF 40

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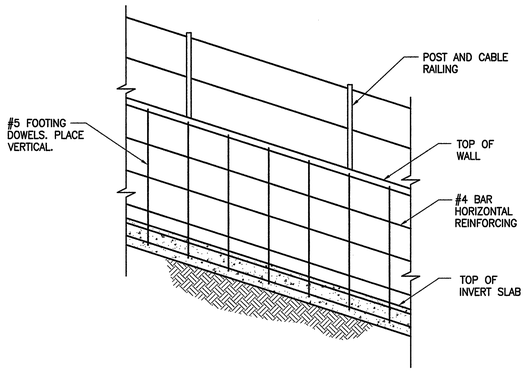
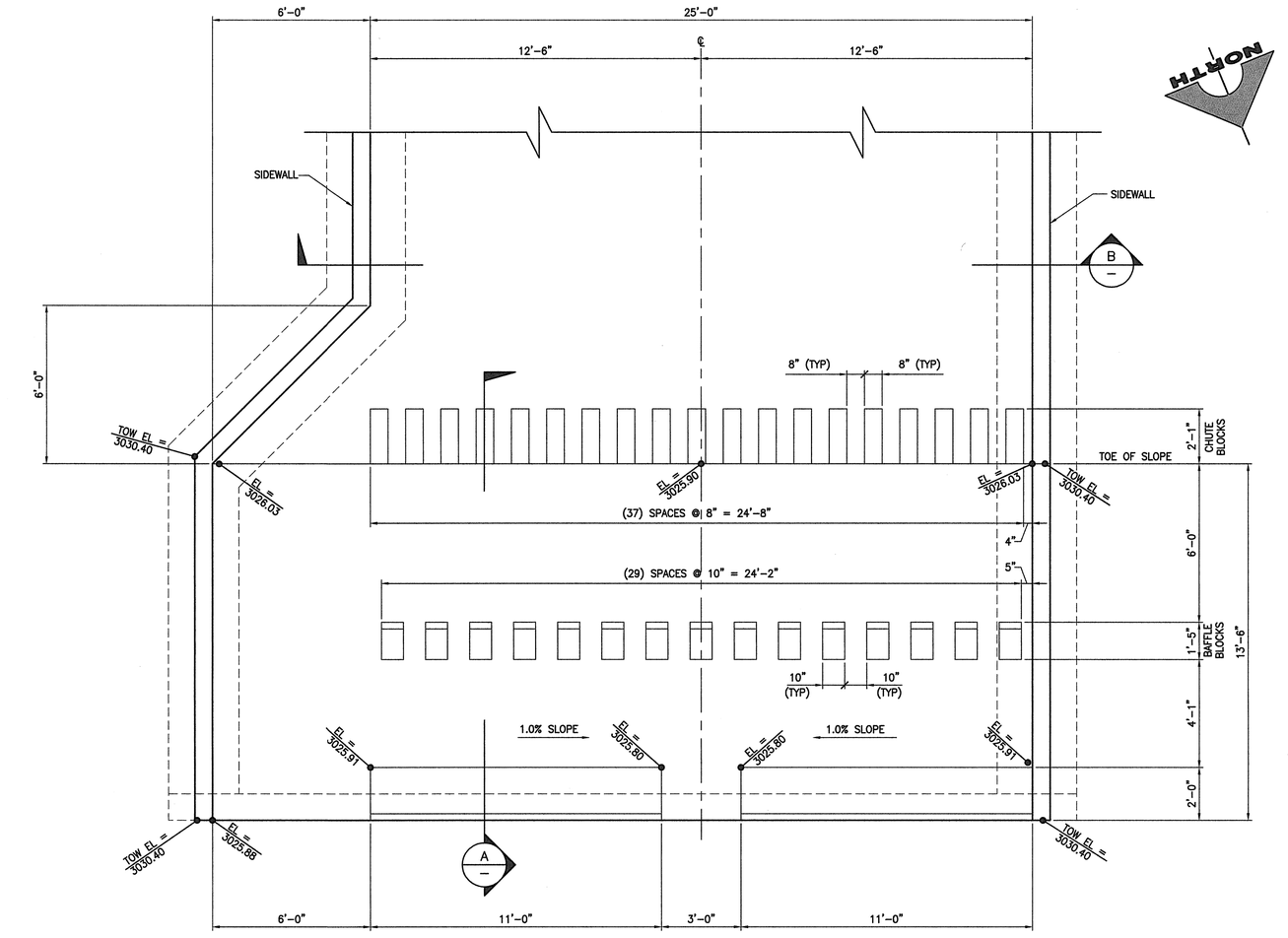
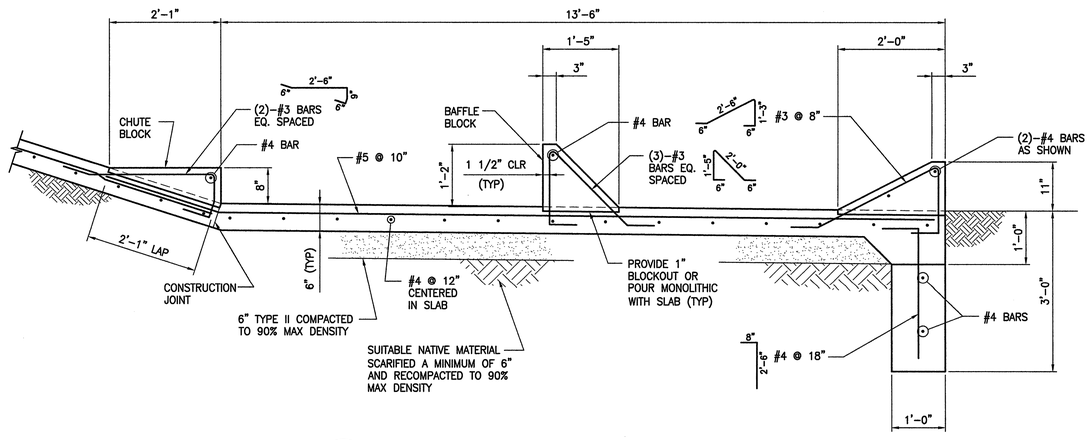


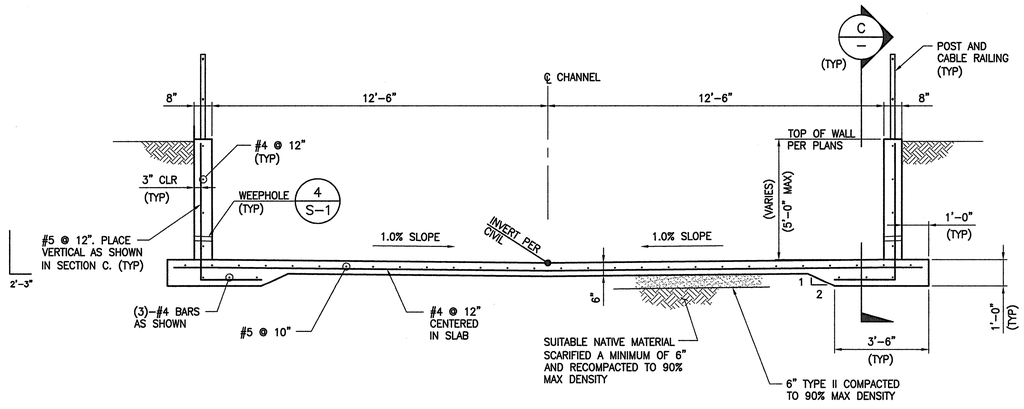
C SECTION
SCALE: 3/8" = 1'-0"



1 PLAN - CHUTE / BAFFLE BLOCK STILLING BASIN
SCALE: 3/8" = 1'-0"



A SECTION
SCALE: 3/4" = 1'-0"



B SECTION
SCALE: 3/8" = 1'-0"

PLT_STMP

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NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

CHUTE / BAFFLE BLOCK STILLING BASIN

13 135 60E

DATE: 7/28/2015
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DESIGNER: EGG
CHECKED: DAT
PROJECT NO. 787-100

PROFESSIONAL ENGINEER STATE OF NEVADA
ERIC G. GILES
Exp. 06/30/2017
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No. 14570
5/12/15

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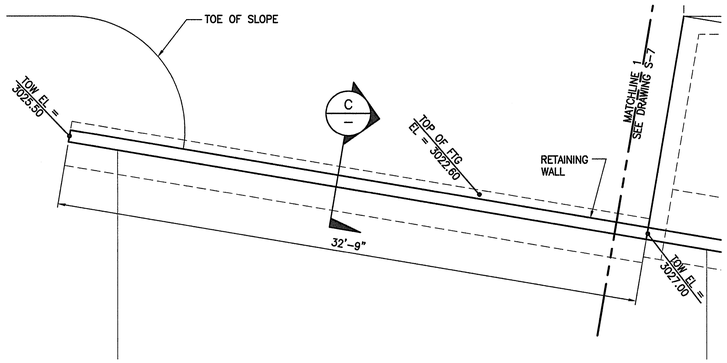
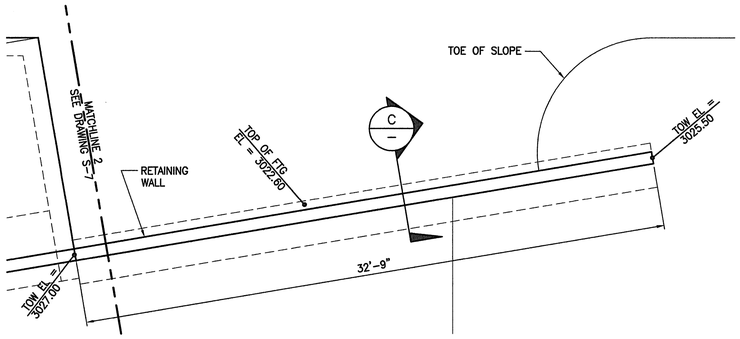
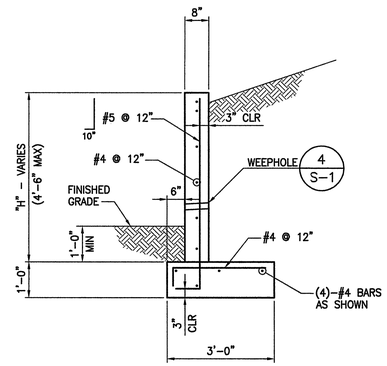
SHEET 34 OF 40



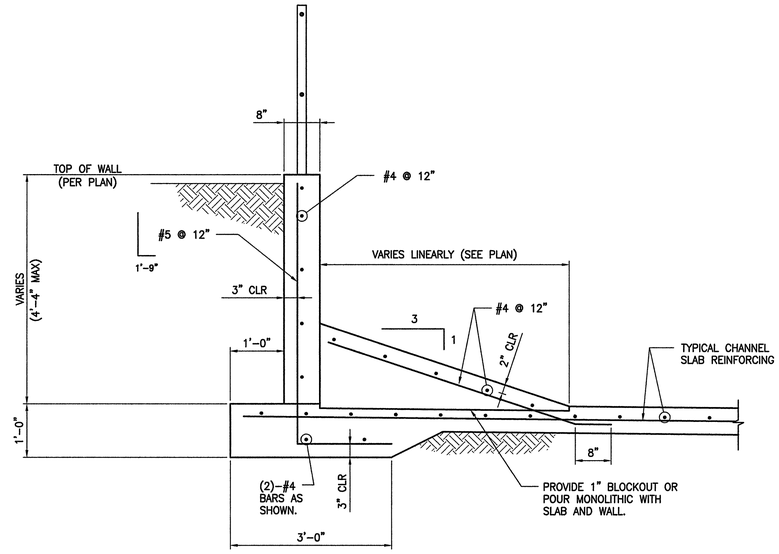
1 PLAN - RETAINING WALL
SCALE: 1/4" = 1'-0"



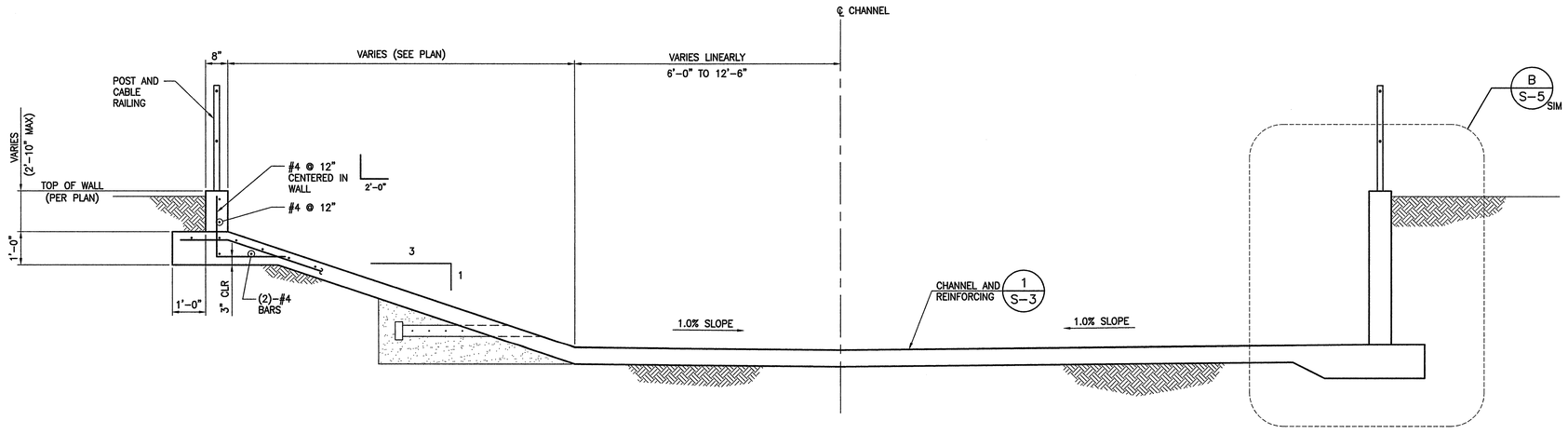
2 PLAN - RETAINING WALL
SCALE: 1/4" = 1'-0"



C SECTION
SCALE: 3/4" = 1'-0"



B SECTION
SCALE: 3/4" = 1'-0"



A SECTION
SCALE: 1/2" = 1'-0"

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LAS VEGAS

NO.	DESCRIPTION	DATE	BY	APP'D AE DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

STRUCTURAL SECTION DETAILS

12 S 60E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. **787-100**

PROFESSIONAL ENGINEER STATE OF NEVADA
ERIC G. GILES
Exp. 06/30/2017
CIVIL / STRUCTURAL
No. 14570
7/28/15

S-6
SHEET 37 OF 40

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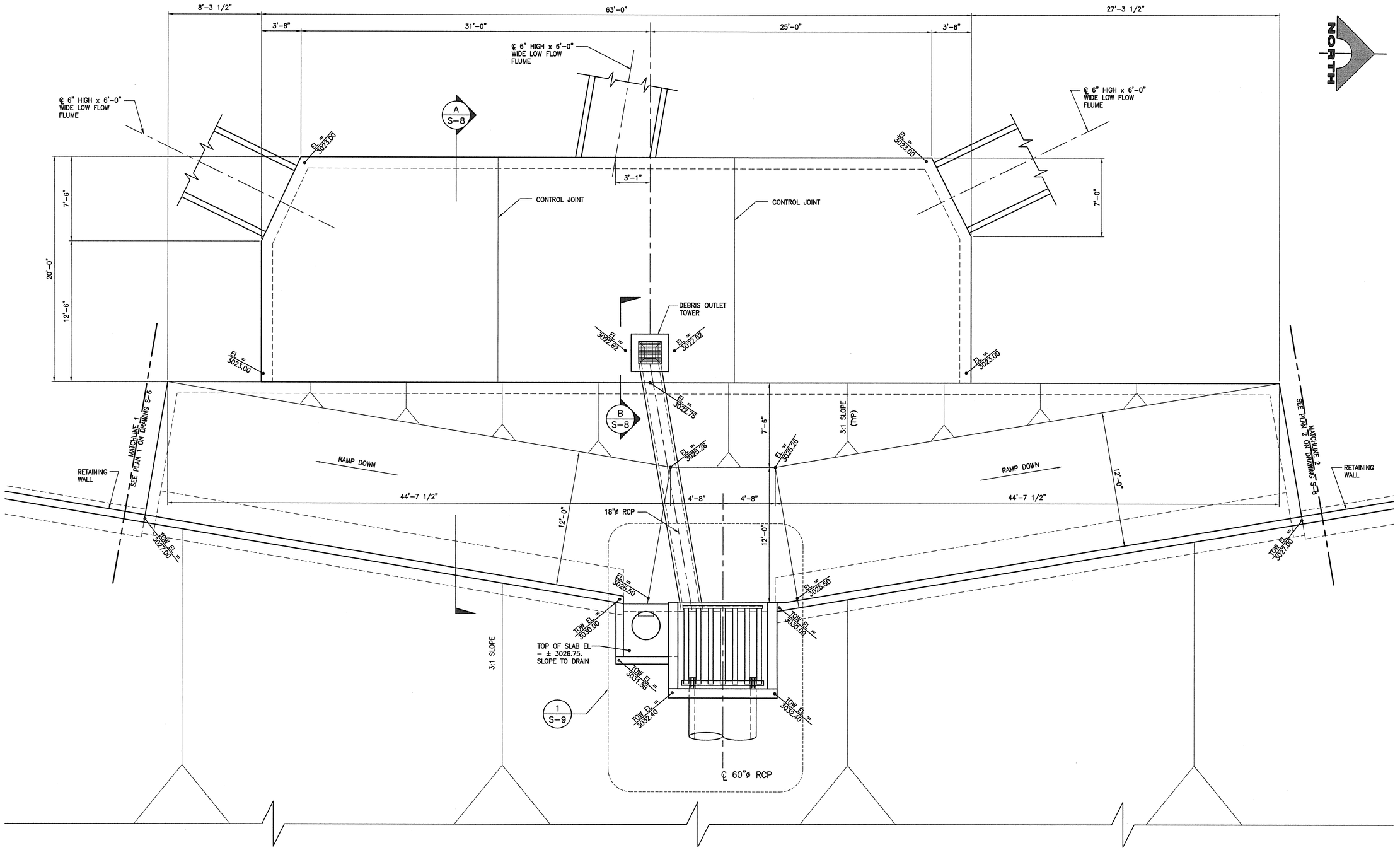

1 PLAN - DETENTION BASIN OUTLET

SCALE: 1/4" = 1'-0"

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NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

DETENTION BASIN OUTLET PLAN

12 11S 60E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. **787-100**

PROFESSIONAL ENGINEER — ERIC G. GILES — Exp. 06/30/2017 — CIVIL / STRUCTURAL — No. 14570 — STATE OF NEVADA
10/21/15

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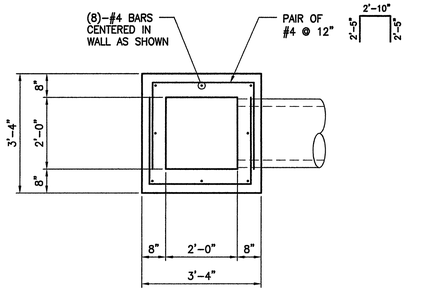
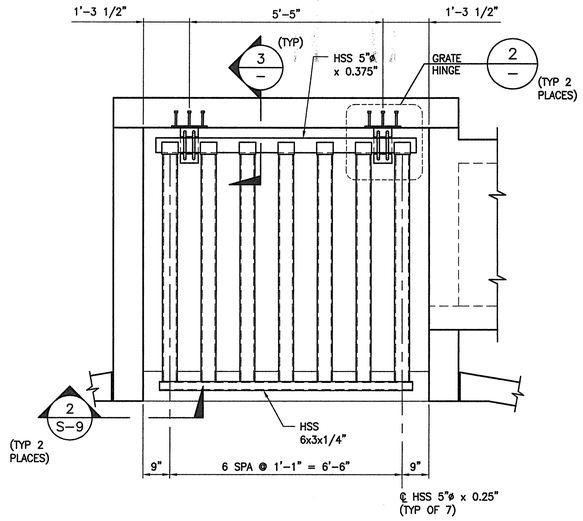
SHEET 38 OF 40

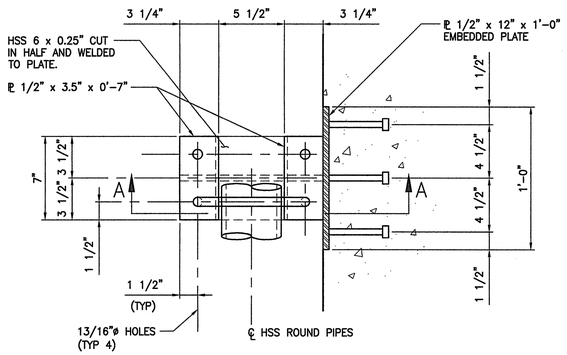
PLT: STNP



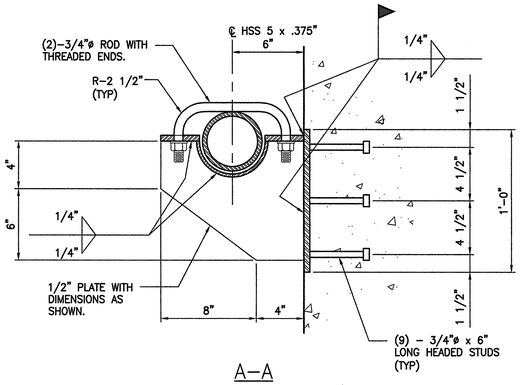
C – SECTION
SCALE: 1/2" = 1'–0"



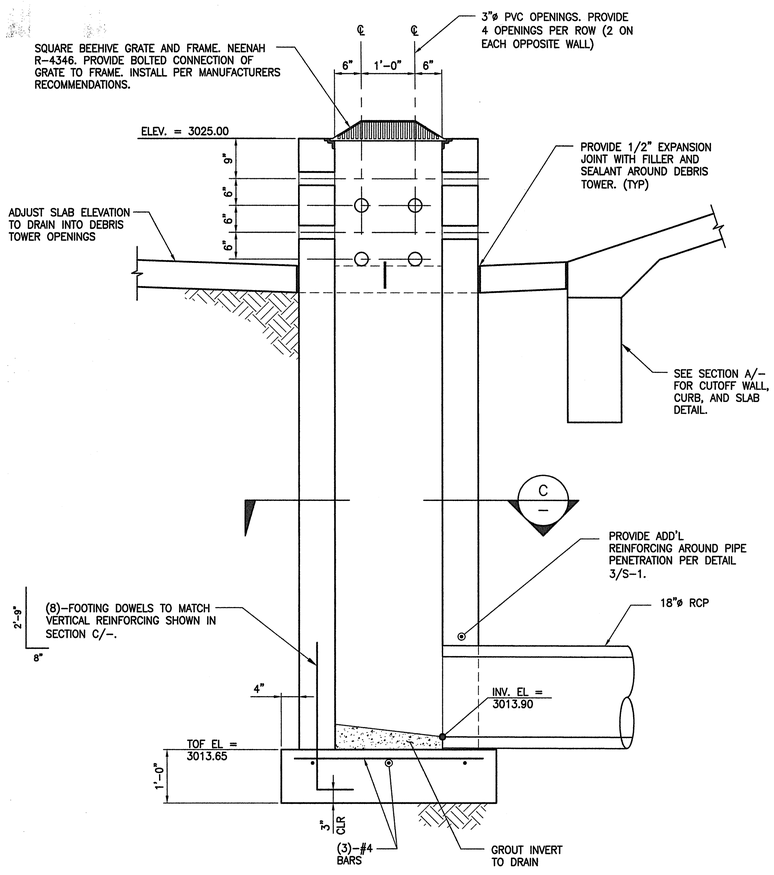
1 – PIPE GRATE - PLAN VIEW
SCALE: 1/2" = 1'–0"



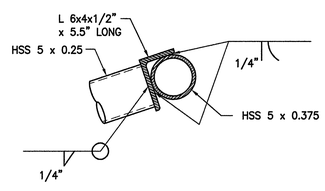
2 – GRATE HINGE DETAIL
SCALE: 1.5" = 1'–0"



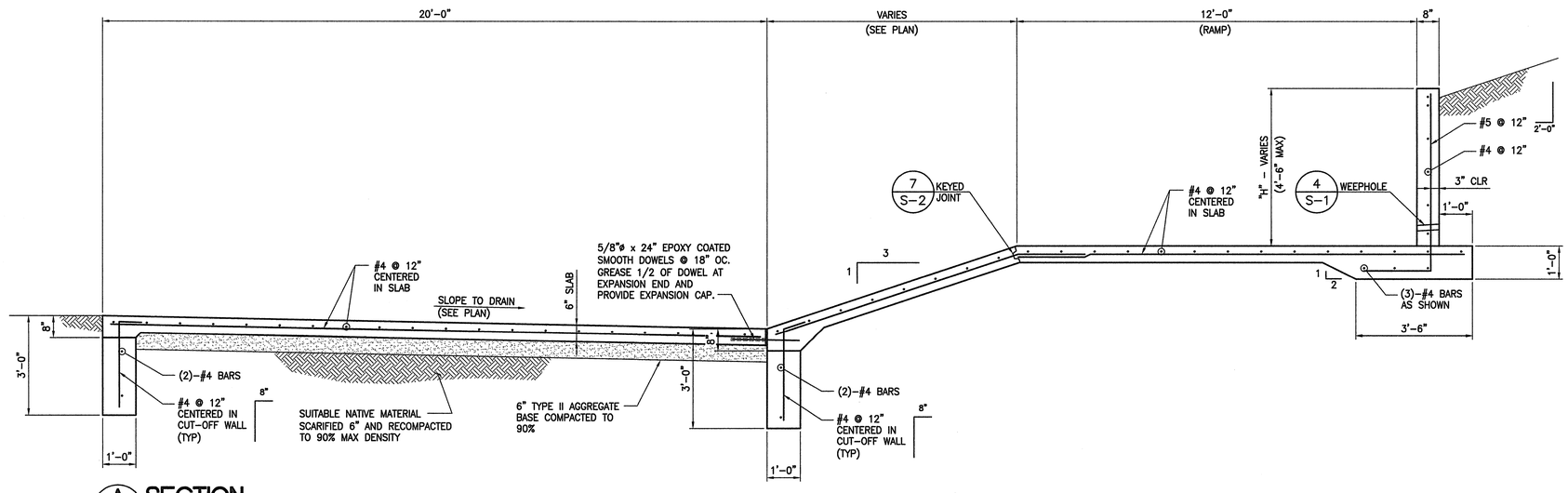
A–A



B – ELEVATION - DEBRIS OUTLET TOWER
SCALE: 3/4" = 1'–0"



3 – DETAIL
SCALE: 1–1/2" = 1'–0"



A – SECTION
SCALE: 1/2" = 1'–0"

G.C. WALLACE COMPANIES
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LAS VEGAS

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CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1

DETENTION BASIN DETAILS 1

12 19S 60E

DATE:	7/28/2015
DRAFTER:	EGG
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PROJECT NO.	787-100

PROFESSIONAL ENGINEER – STATE OF NEVADA – ERIC G. GILES – Exp. 06/30/2017 – CIVIL/STRUCTURAL – No. 14570 – 7/28/15

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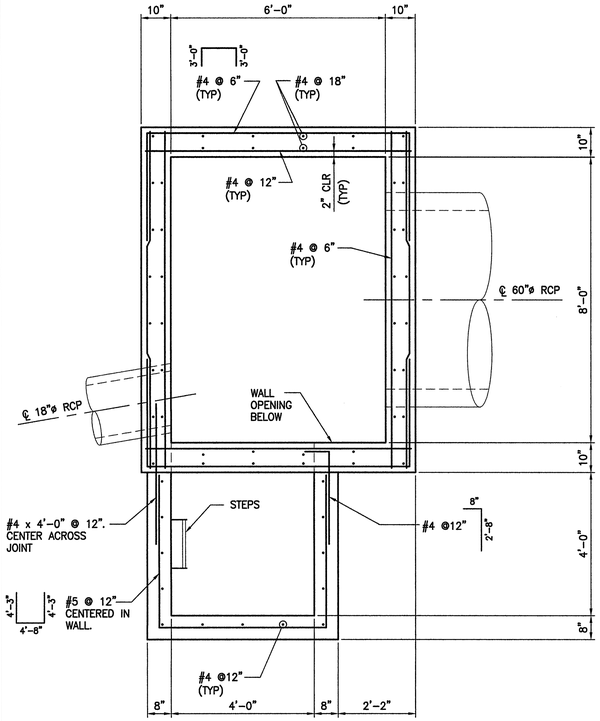
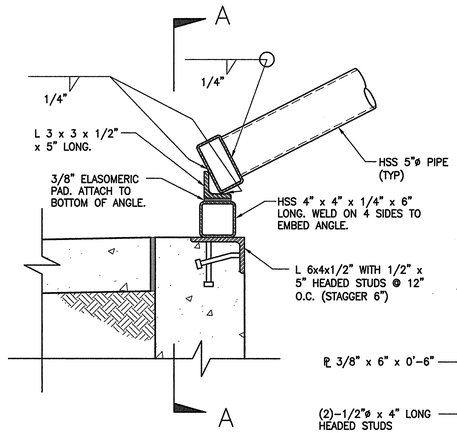
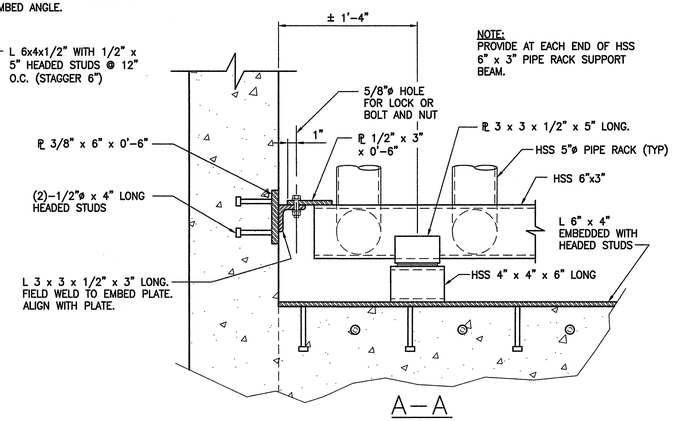
PLT_STNP

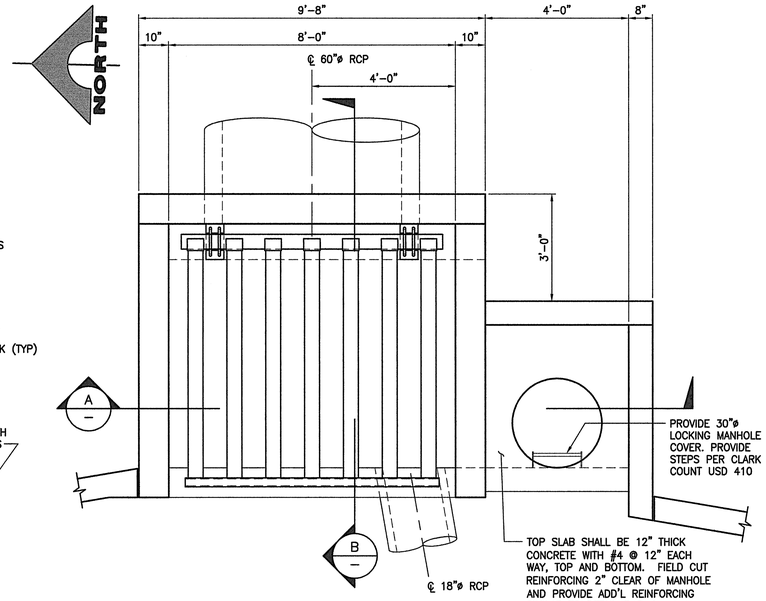


C SECTION
SCALE: 1/2" = 1'-0"

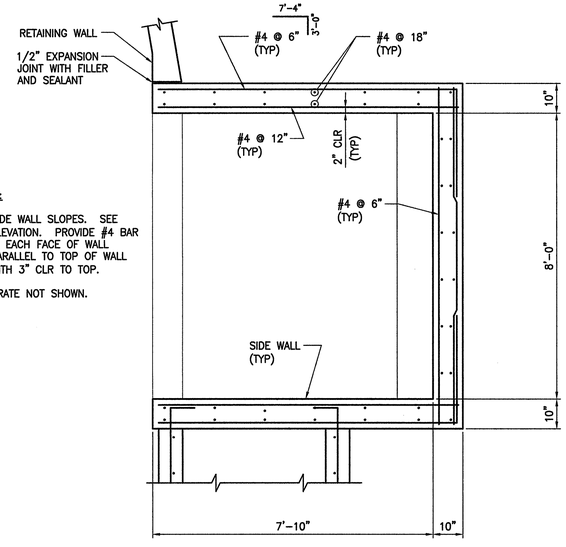




2 DETAIL
SCALE: 1" = 1'-6"



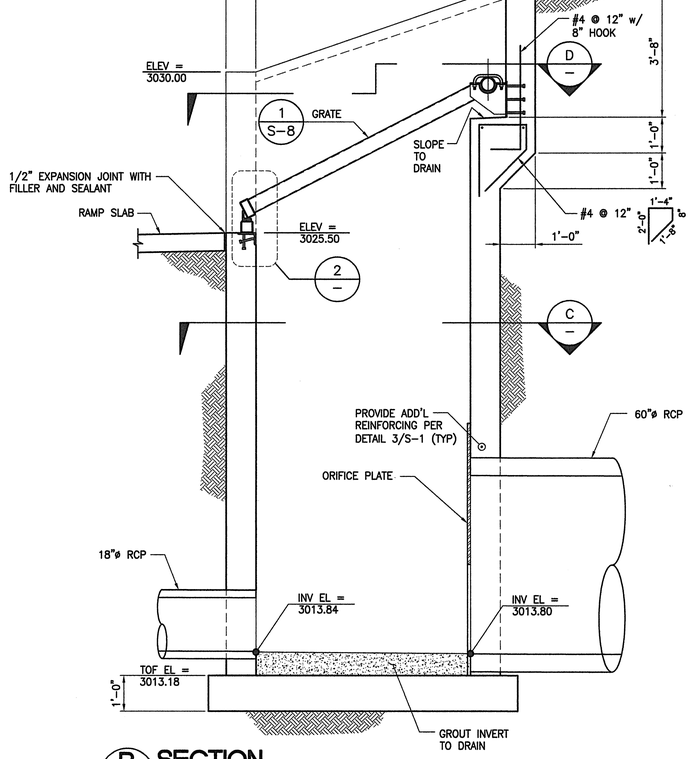
1 ENLARGED PLAN
SCALE: 1/2" = 1'-0"



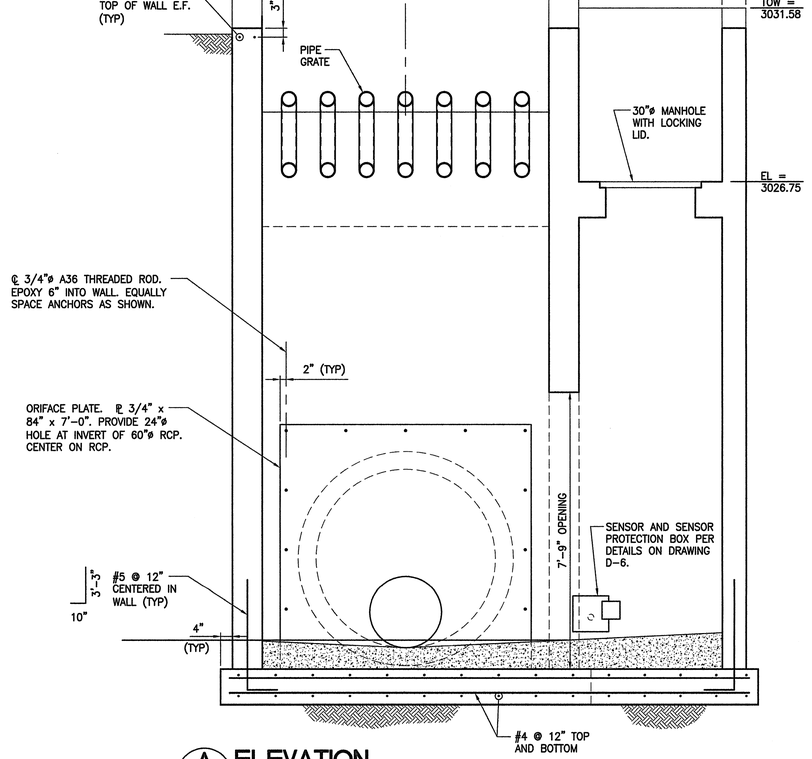
NOTES:

1. SIDE WALL SLOPES. SEE ELEVATION. PROVIDE #4 BAR IN EACH FACE OF WALL PARALLEL TO TOP OF WALL WITH 3" CLR TO TOP.
2. GRATE NOT SHOWN.

D SECTION
SCALE: 1/2" = 1'-0"



B SECTION
SCALE: 1/2" = 1'-0"



A ELEVATION
SCALE: 1/2" = 1'-0"

G.C. WALLACE COMPANIES
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CITY OF LAS VEGAS

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON DETENTION BASIN 1
DETENTION BASIN OUTLET DETAILS II

112 S 60 E

DATE: 7/28/2015
DRAFTER: EGG
DESIGNER: EGG
CHECKED: DAT
PROJECT NO. 787-100

PROFESSIONAL ENGINEER · STATE OF NEVADA · ERIC G. GILES · Exp. 06/30/2017 · CIVIL / STRUCTURAL · No. 14570 · 12/21/15

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PLT: STNP