

BENCHMARK

CITY OF NORTH LAS VEGAS BENCHMARK "NLV0121W4"
RIVET AND 2" ROUND ALUMINUM DISK, STAMPED NORTH LAS VEGAS BM NO.
NLV0121W4, SET IN THE TOP OF CURB, LOCATED ON THE NORTH SIDE OF LAKE MEAD
BLVD. AT TONOPAH ST.
ELEVATION=630.402 METERS=2068.24 FEET
NORTH AMERICAN VERTICAL DATUM 1988

BASIS OF BEARING

SOUTH 89°43'00" EAST, BEING THE BEARING OF THE CENTERLINE OF MOUNT MARIAH
DRIVE, AS SHOWN ON THAT SUBDIVISION KNOWN AS "AMENDED MAP FOR LAS
VEGAS ENTERPRISE PARK" ON FILE IN THE OFFICE OF THE COUNTY RECORDER,
CLARK COUNTY, NEVADA, IN BOOK 77 OF PLATS, AT PAGE 54.

LEGAL DESCRIPTION

BEING A PORTION OF LOT 6 OF THAT SUBDIVISION KNOWN AS "AMENDED MAP FOR LAS
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COUNTY, NEVADA, IN BOOK 77 OF PLATS, AT PAGE 54 LYING WITHIN THE NORTHEAST
QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 21, TOWNSHIP 20
SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA MORE
PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF MOUNT MARIAH DRIVE AND STELLA LAKE STREET,
AS SHOWN ON SAID "AMENDED MAP FOR LAS VEGAS ENTERPRISE PARK"; THENCE SOUTH
89°43'00" EAST, ALONG THE CENTERLINE OF SAID MOUNT MARIAH DRIVE, 458.71 FEET;
THENCE SOUTH 00°17'00" WEST, DEPARTING SAID CENTERLINE 30.00 FEET TO A POINT ON
THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID MOUNT MARIAH DRIVE, SAME BEING THE
POINT OF BEGINNING;

THENCE, SOUTH 00°17'00" WEST, 240.00 FEET; THENCE NORTH 89°43'00" WEST PARALLEL
WITH CENTERLINE OF SAID MOUNT MARIAH DRIVE, 450.58 FEET TO A POINT ON THE
EASTERLY RIGHT-OF-WAY LINE OF STELLA LAKE STREET; THENCE NORTH 05°21'08" EAST,
ALONG EASTERLY RIGHT-OF-WAY LINE 222.64 FEET TO THE BEGINNING OF A TANGENT
CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 30 FEET; THENCE
NORTHEASTERLY 29.85 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 84°55'54"
TO A POINT ON THE SOUTHERLY LINE OF SAID MOUNT DRIVE; THENCE SOUTH 89°43'00"
EAST, ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE 410.99 FEET TO THE POINT OF
BEGINNING.

CONTAINING 2.42 ACRES, MORE OR LESS

A.P.N. 139-21-313-016

CONSTRUCTION NOTES

- 1 REMOVE EXISTING OFF-SITE IMPROVEMENTS AS REQUIRED
- 2 CONSTRUCT 32" (LIP-TO-LIP) DRIVEWAY, 8" CROSS GUTTER AND HANDICAPPED RAMPS
PER USDOCA STD DWGS 222A, 225 AND 228; CONSTRUCT SIDEWALK RAMPS USING
ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD STD DWG 235
- 3 REMOVE AND REPLACE EXISTING SPANDREL AREA
- 4 CONSTRUCT 2" L-TYPE CURB & GUTTER PER USDOCA STD DWG 216 SEE DETAIL THIS SHEET
- 5 CONSTRUCT 5" SIDEWALK PER USDOCA STD DWG 234
- 6 CONSTRUCT A-TYPE CURB PER DETAIL SEE THIS SHEET
- 7 CONSTRUCT 2" (24") CONCRETE VALLEY GUTTER PER DETAIL SEE THIS SHEET
- 8 INSTALL COLOR STAMPED CONCRETE PAVEMENT THIS AREA PER ARCHITECTURAL PLANS
REFER TO GEOTECHNICAL NOTES FOR RECOMMENDED PAVEMENT SECTION
- 9 PROPOSED WROUGHT IRON FENCE PER CLV FIRE STATION #106

GEOTECHNICAL NOTES

1. ALL GRADING AND PAVING TO BE COMPLETED IN STRICT ACCORDANCE
WITH CONVERSE CONSULTANTS, GEOTECHNICAL EVALUATION, PROJECT NO.
10-34140-01, DATED FEBRUARY 9, 2011.
2. ON-SITE ASPHALT PAVING SECTION TO BE A MINIMUM OF TWO INCHES
(2") ON A MINIMUM OF EIGHT INCHES (8") TYPE II IN PARKING AREAS
AND A MINIMUM ELEVEN INCHES (11") TYPE II IN HIGH TRAFFIC AREAS.
*** SEE REPORT FOR RECOMMENDATIONS AND ALTERNATIVES ***
3. PAD ELEVATION IS BASED ON TWELVE INCHES (6") TYPE II UNDER A
FOUR INCH (4") CONCRETE SLAB.
*** SEE REPORT FOR RECOMMENDATIONS AND ALTERNATIVES ***

FEMA FLOOD ZONE NOTE

** THIS SITE PREDOMINATELY LIES WITHIN A FEMA ZONE "X" **
PER FIRM PANEL32003C2160E DATED SEPTEMBER 27, 2002.
REVISED TO REFLECT LOMR DATED DECEMBER 11, 2003.

FEMA ZONE "X"

AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL
CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT
OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND
AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE
FLOOD.

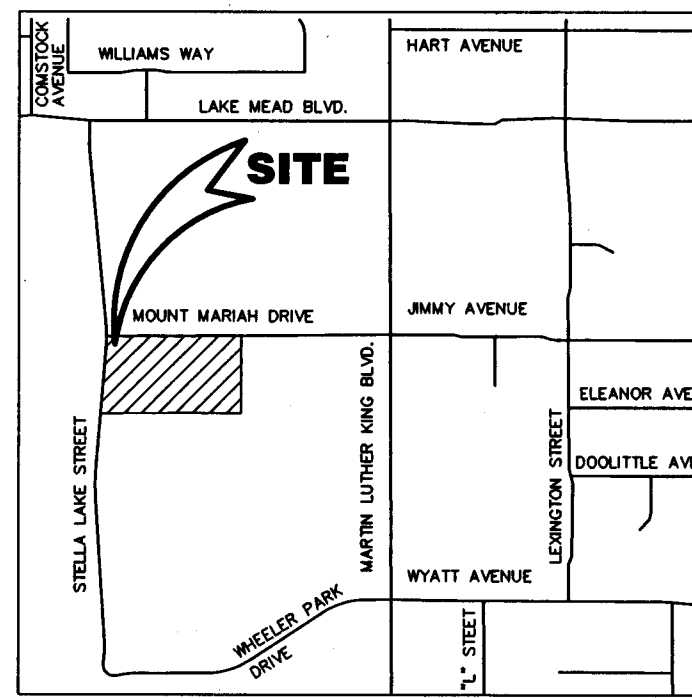
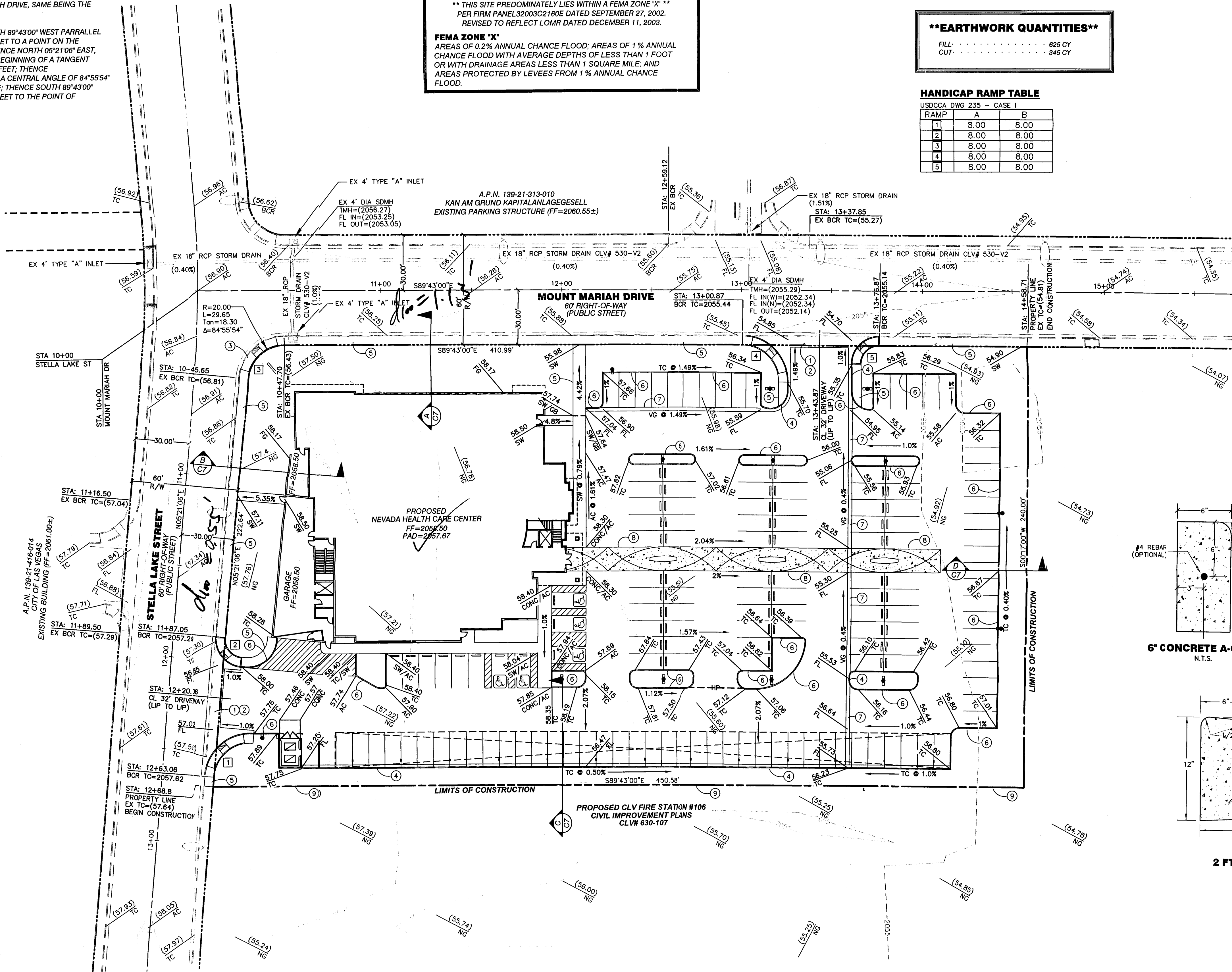
EARTHWORK QUANTITIES

FILL: 625 CY
CUT: 345 CY

HANDICAP RAMP TABLE

USDOCA DWG 235 - CASE I

RAMP	A	B
1	8.00	8.00
2	8.00	8.00
3	8.00	8.00
4	8.00	8.00
5	8.00	8.00

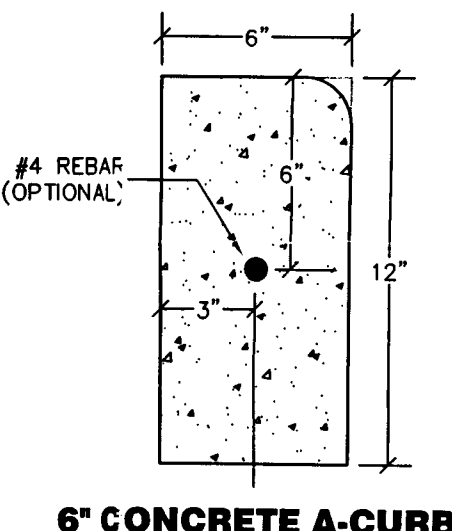


AREA MAP

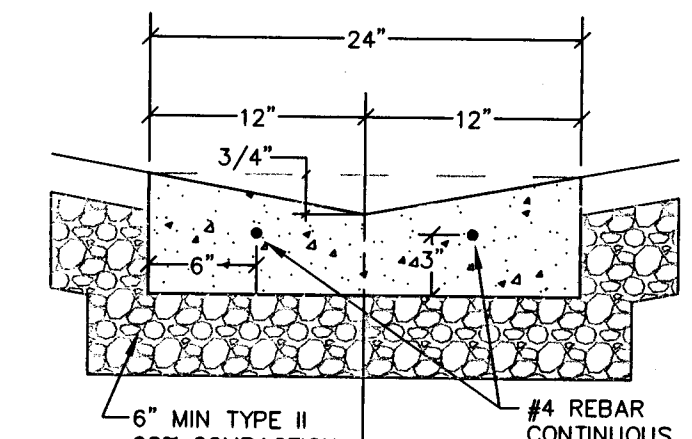
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LEGEND

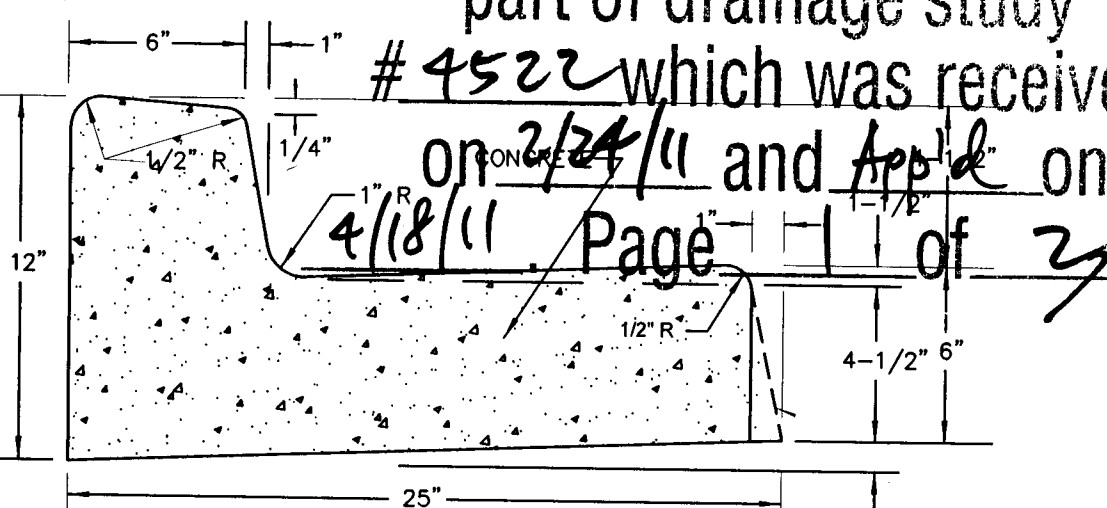
---	PROPERTY LINE
---	RIGHT OF WAY
---	CENTERLINE
---	AC CUTLINE
---	EXISTING CURB
---	PROPOSED CURB
---	EXISTING EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
---	EXISTING BLOCK WALL
---	PROPOSED BLOCK WALL
---	CONTOUR LINE
---	EXISTING OVER HEAD POWER
---	AC ASPHALTIC CONCRETE
---	BC BACK OF CURB
---	BCR BEGINNING OF CURB RADIUS
---	BW BACK OF WALK
---	CC CURB & GUTTER
---	CL CENTERLINE
---	CONC CONCRETE
---	E ELECTRICAL
---	ECR END OF CURB RADIUS
---	EP EDGE OF PAVEMENT
---	EX EXISTING
---	FL FINISH GRADE
---	GB GRADE BREAK
---	HP HIGH POINT
---	INV INVERT
---	LF LINEAR FEET
---	LP LOW POINT
---	NG NATURAL GROUND
---	PL PROPERTY LINE
---	PVC POLYVINYL CHLORIDE
---	PE POLYETHYLENE
---	SL STREET LIGHT
---	SMH SEWER MANHOLE
---	SSCO SANITARY SEWER CLEANOUT
---	STA STATION
---	SW SIDEWALK
---	TC TOP OF CURB
---	TE TRASH ENCLOSURE
---	TF TOP OF FOOTING
---	TOP TOP OF SLOPE
---	TOE TOP OF SLOPE
---	TLTV TELEPHONE VAULT
---	TRW TOP OF RETAINING WALL
---	TW TOP OF WALL
---	(88.88) EXISTING GRADE
---	88.88 PROPOSED GRADE
---	OX EXISTING 100W STREET LIGHT



6" CONCRETE A-CURB
N.T.S.



2 FT (24") CONCRETE VALLEY GUTTER
N.T.S.



ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE
WITH THE APPROVED DRAINAGE STUDY (DS XXXX) ON FILE AT
THE CITY OF LAS VEGAS FOR THIS PROJECT

REESE P. JARRELL, P.E., #7867

DATE

10 NINE DESIGN GROUP

3579 RED ROCK STREET LAS VEGAS, NEVADA 89103
PHONE: (702) 870-7076 FAX: (702) 259-6326

GRADING PLAN

SHEET

PROJECT

1-24-2011

DRAWN BY:

DESIGNED BY:

CHECKED BY:

PROJECT NO.

124-10-698

SCALE

HORIZ: 1"=30'

VERT: N/A

SHEET

4 OF 9

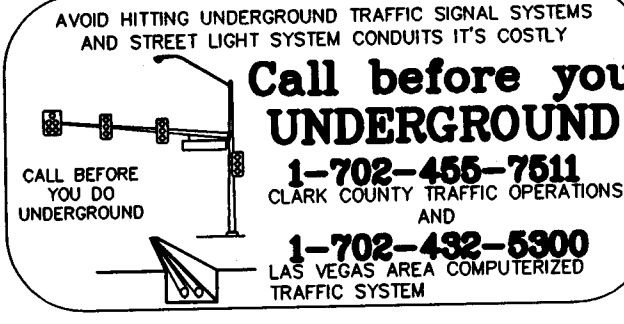
CLV DWG #

NEVADA HEALTH CENTERS
MLK FAMILY CENTER/ADMIN OFFICES
CITY OF LAS VEGAS, NEVADA

PREPARED
JPR Associates Ltd.
4880 W. UNIVERSITY, SUITE B-2 PH (702) 878-2341
LAS VEGAS, NEVADA 89103 FAX (702) 876-8395



G1



BENCHMARK

CITY OF NORTH LAS VEGAS BENCHMARK "NLV0121W4"
RIVET AND 2" ROUND ALUMINUM DISK, STAMPED NORTH LAS VEGAS BM NO.
NLV0121W4, SET IN THE TOP OF CURB, LOCATED ON THE NORTH SIDE OF LAKE MEAD
BLVD. AT TONOPAH ST.
ELEVATION=630.402 METERS=2068.24 FEET
NORTH AMERICAN VERTICAL DATUM 1988

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NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION
21, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK
COUNTY, NEVADA MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF MOUNT MARIAH DRIVE AND STELLA LAKE
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410.99 FEET TO THE POINT OF BEGINNING.

CONTAINING 2.42 ACRES, MORE OR LESS

A.P.N. 139-21-313-016

FEMA FLOOD ZONE NOTE
** THIS SITE PREDOMINATELY LIES WITHIN A FEMA ZONE "X" **
PER FIRM PANEL 32003C2180E DATED SEPTEMBER 27, 2002.
REVISED TO REFLECT LOMR DATED DECEMBER 11, 2003.

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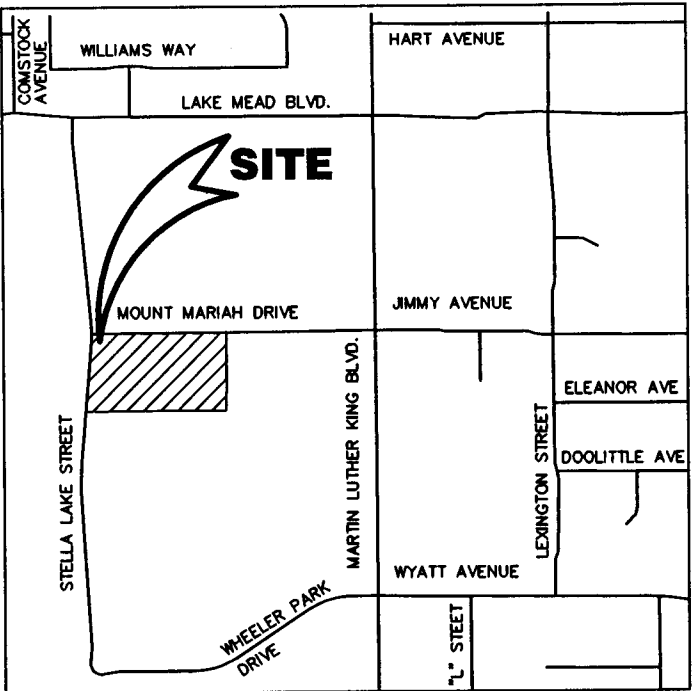
ON-SITE BASIN DATA				
BASIN ID	AREA (ACRES)	SOIL GROUP	RGN	COMMENTS
OND1	1.88	B	98	IMPERVIOUS
OND2	0.54	B	98	IMPERVIOUS

PEAK FLOW SUMMARY		
BASIN ID	Q10 (CFS)	Q100 (CFS)
OND1	3	6
OND2	<1	1

STREET SECTION FLOW DATA				
SECTION ID	Q100 (CFS)	DEPTH (FT)	VELOCITY (FPS)	V/D
A-A	12	0.55	1.68	0.92
B-B	175	1.13	4.22	4.77

ON-SITE SECTION FLOW DATA				
SECTION ID	Q100 (CFS)	DEPTH (FT)	VELOCITY (FPS)	
C-C	7	0.28	1.41	

*ALL OFF-SITE FLOWS REFERENCED FROM PREVIOUSLY
APPROVED DRAINAGE STUDY FOR STELLA LAKE (DS 3581)

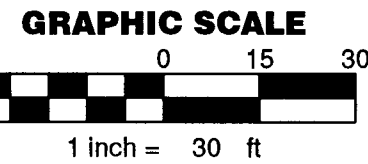


AREA MAP

N.T.S.

LEGEND

- PROPERTY LINE
- RIGHT OF WAY
- CENTERLINE
- AC CUTLINE
- EXISTING CURB
- PROPOSED CURB
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- EXISTING BLOCK WALL
- PROPOSED BLOCK WALL
- CONTOUR LINE
- EXISTING OVER HEAD POWER
- OHP— —OHP—
- ASPHALTIC CONCRETE
- BACK OF CURB
- BEGINNING OF CURB RADIUS
- BACK OF WALK
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- CENTERLINE
- CONCRETE
- ELECTRICAL
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- POLYETHYLENE
- STREET LIGHT
- SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STATION
- SIDEWALK
- TOP OF CURB
- TRASH ENCLOSURE
- TOP OF FOOTING
- TOP OF SLOPE
- TOE OF SLOPE
- TELEPHONE VAULT
- TOP OF RETAINING WALL
- TOP OF WALL
- EXISTING GRADE
- PROPOSED GRADE
- EXISTING 100W STREET LIGHT



This grading plan is a
part of drainage study
4522 which was received
on 2/24/11 and Appl on
4/18/11. Page 2 of 3

811
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.
**Call before you
DIG.**
1-800-227-2600
NEVADA POWER ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT
**Call before you
OVERHEAD**
1-702-227-2929

**Call before you
UNDERGROUND**
1-702-455-7811
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-452-5300
LAS VEGAS AREA COMPUTERIZED
TRAFFIC SYSTEM

10 NINE DESIGN GROUP

3579 RED ROCK STREET LAS VEGAS, NEVADA 89103
PHONE: (702) 870-7076 FAX: (702) 258-6326

DRAINAGE PLAN

NEVADA HEALTH CENTERS
MLK FAMILY CENTER/ADMIN OFFICES
CITY OF LAS VEGAS, NEVADA

SHEET

1-24-2011

DESIGNED BY:

CHECKED BY:

PROJECT NO.

124-10-698

SCALE

HORIZ: 1" = 30'

VERT: N/A

SEAL

RESEE P JARRELL

Exp: 06/30/2011

CIVIL

No. 7881

2/23/11

SHEET

1 OF 1

SHEETS

BENCHMARK

CITY OF NORTH LAS VEGAS BENCHMARK "NLV0121W4"
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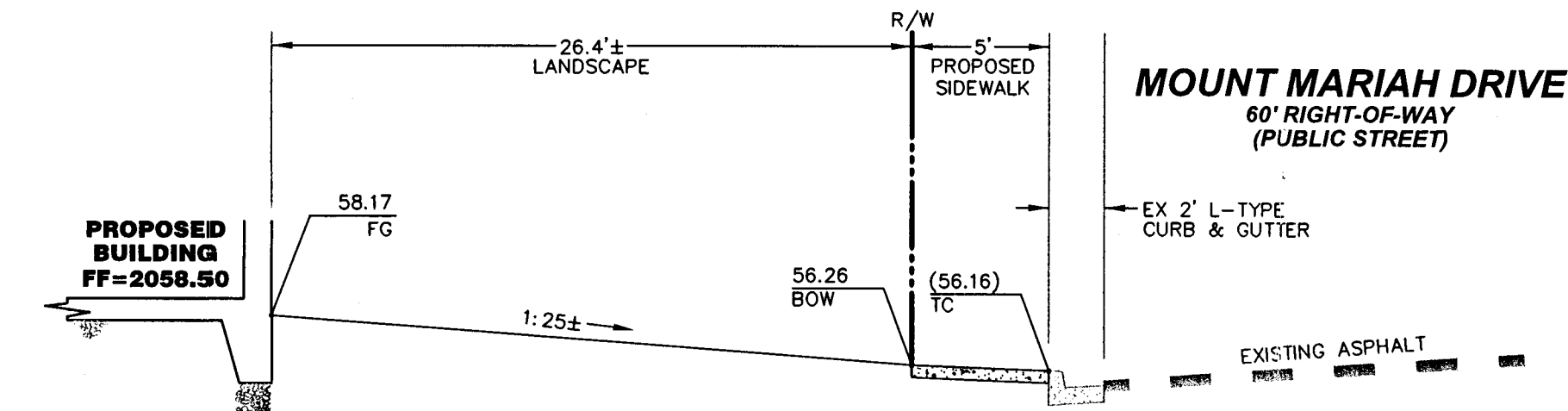
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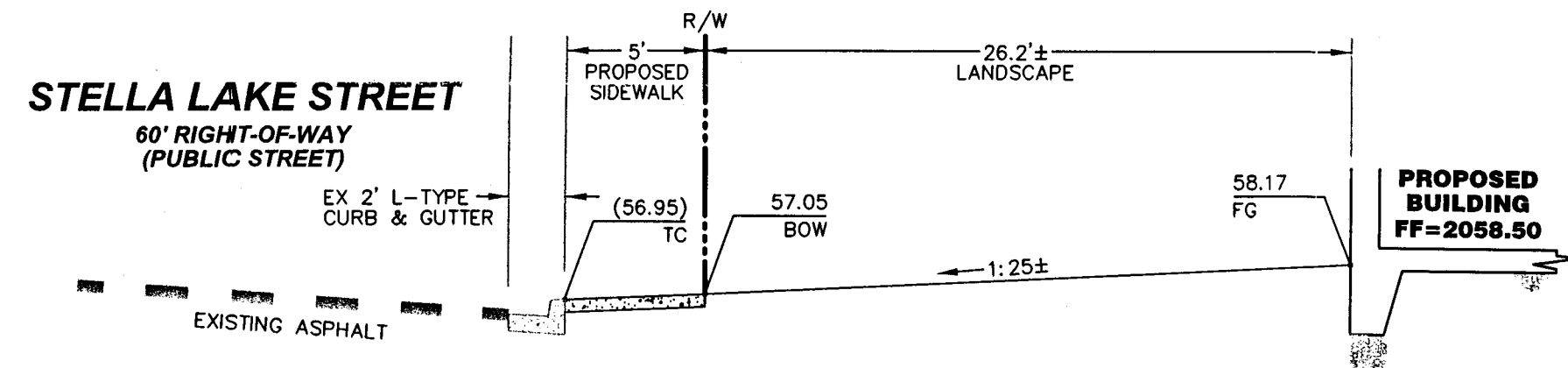
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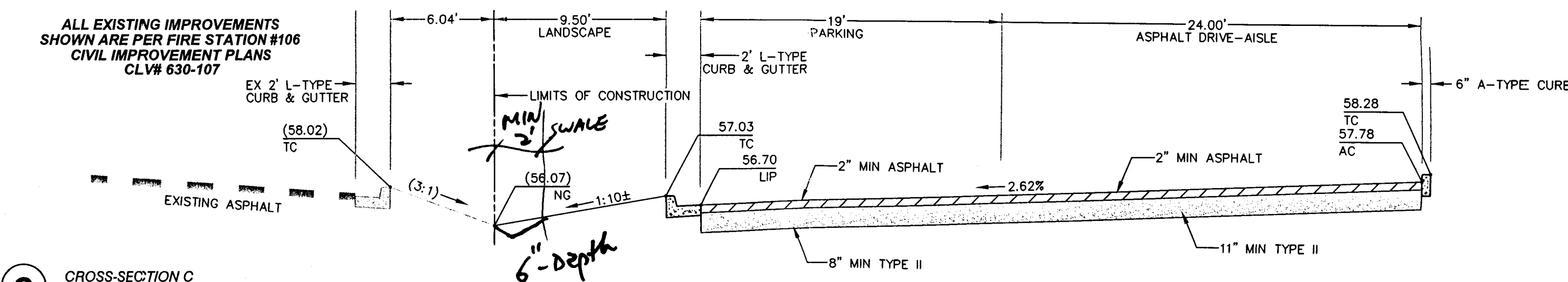
A.P.N. 139-21-313-016



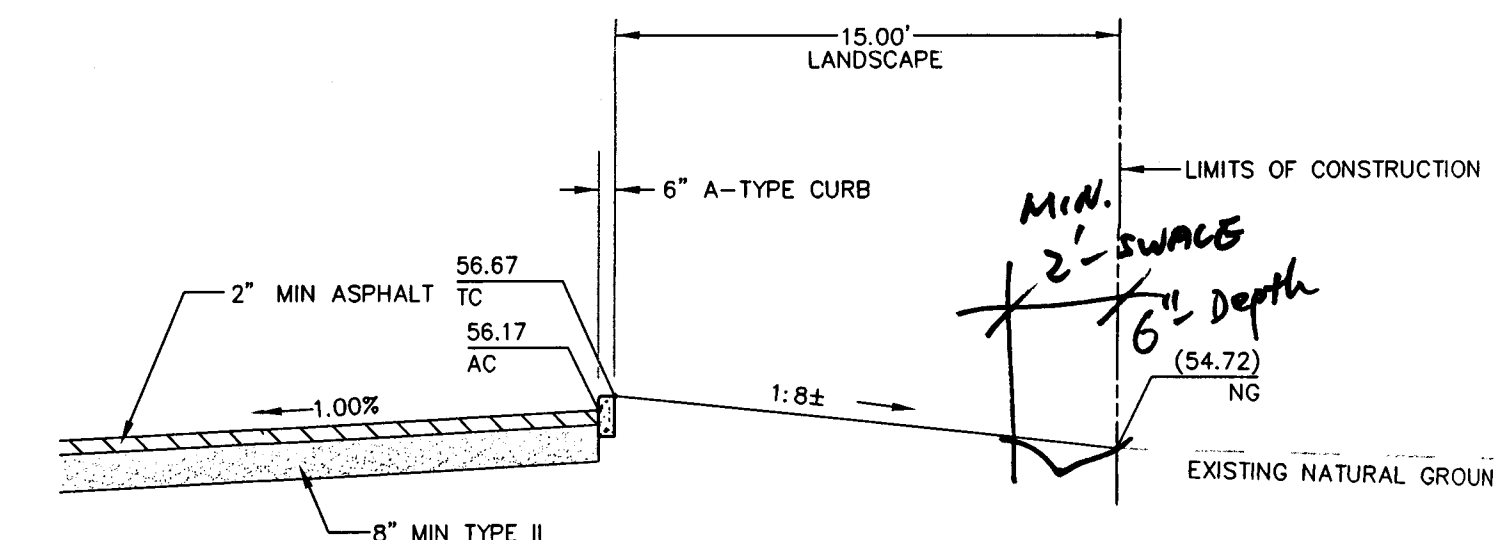
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NOT TO SCALE



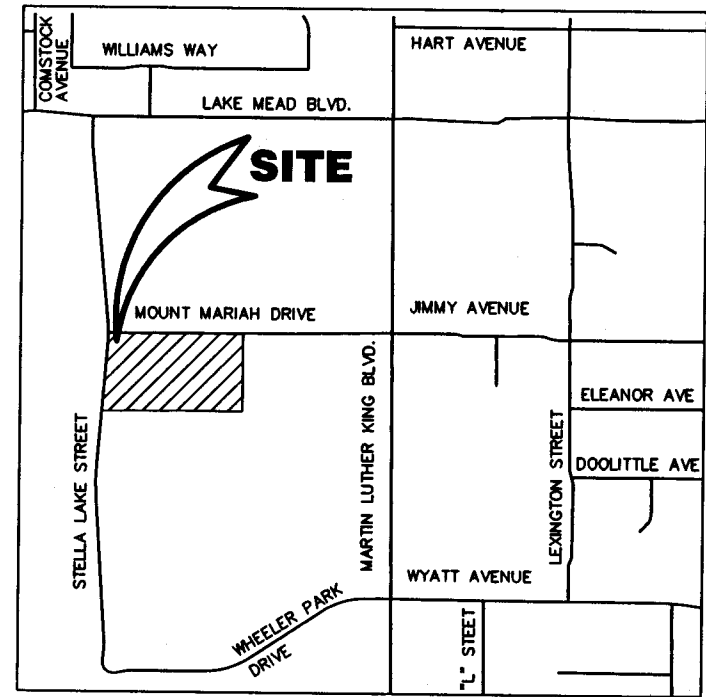
B CROSS-SECTION B
NOT TO SCALE



C CROSS-SECTION C
NOT TO SCALE



D CROSS-SECTION D
NOT TO SCALE

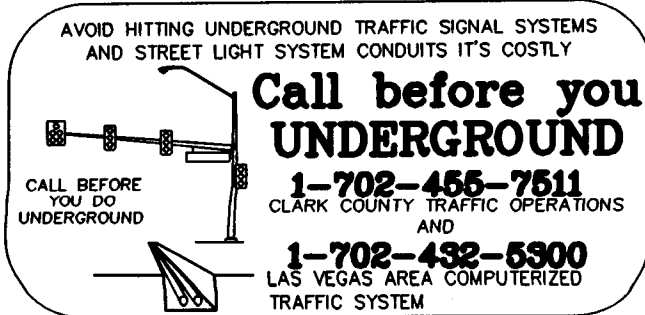


AREA MAP

N.T.S.

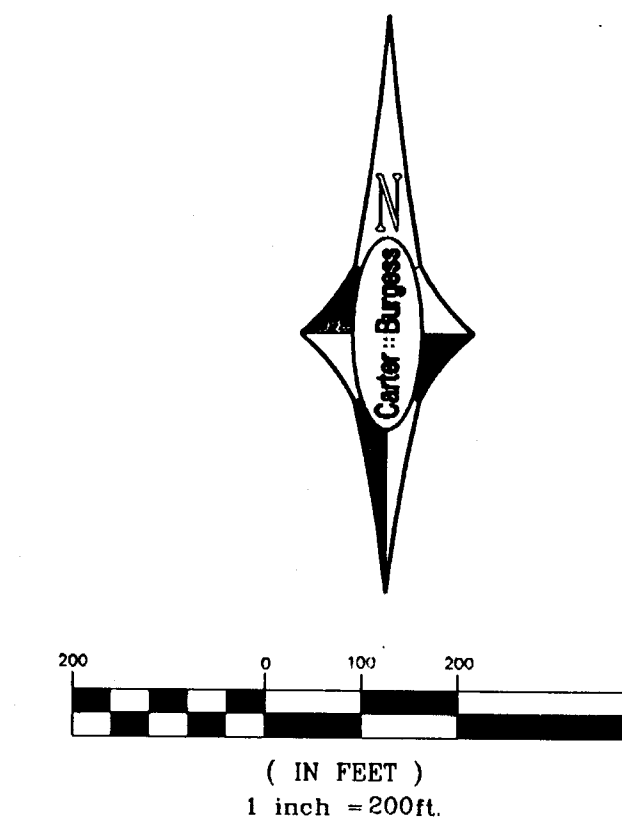
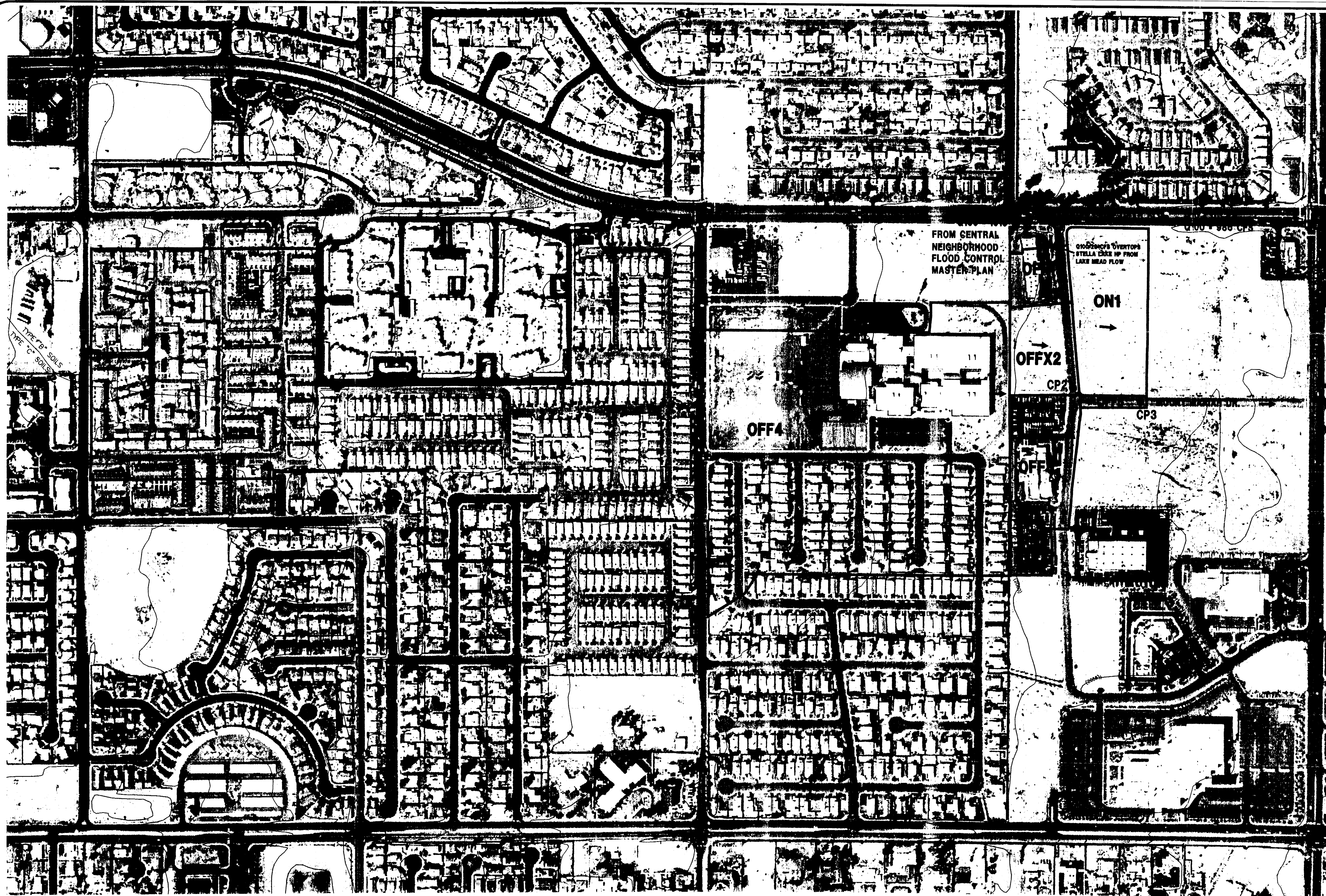
LEGEND

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---	RIGHT OF WAY
---	CENTERLINE
---	AC CUTLINE
---	EXISTING CURB
---	PROPOSED CURB
---	EXISTING EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
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---	POLYETHYLENE
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---	TOP OF WALL
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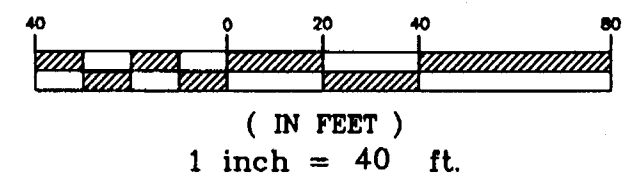
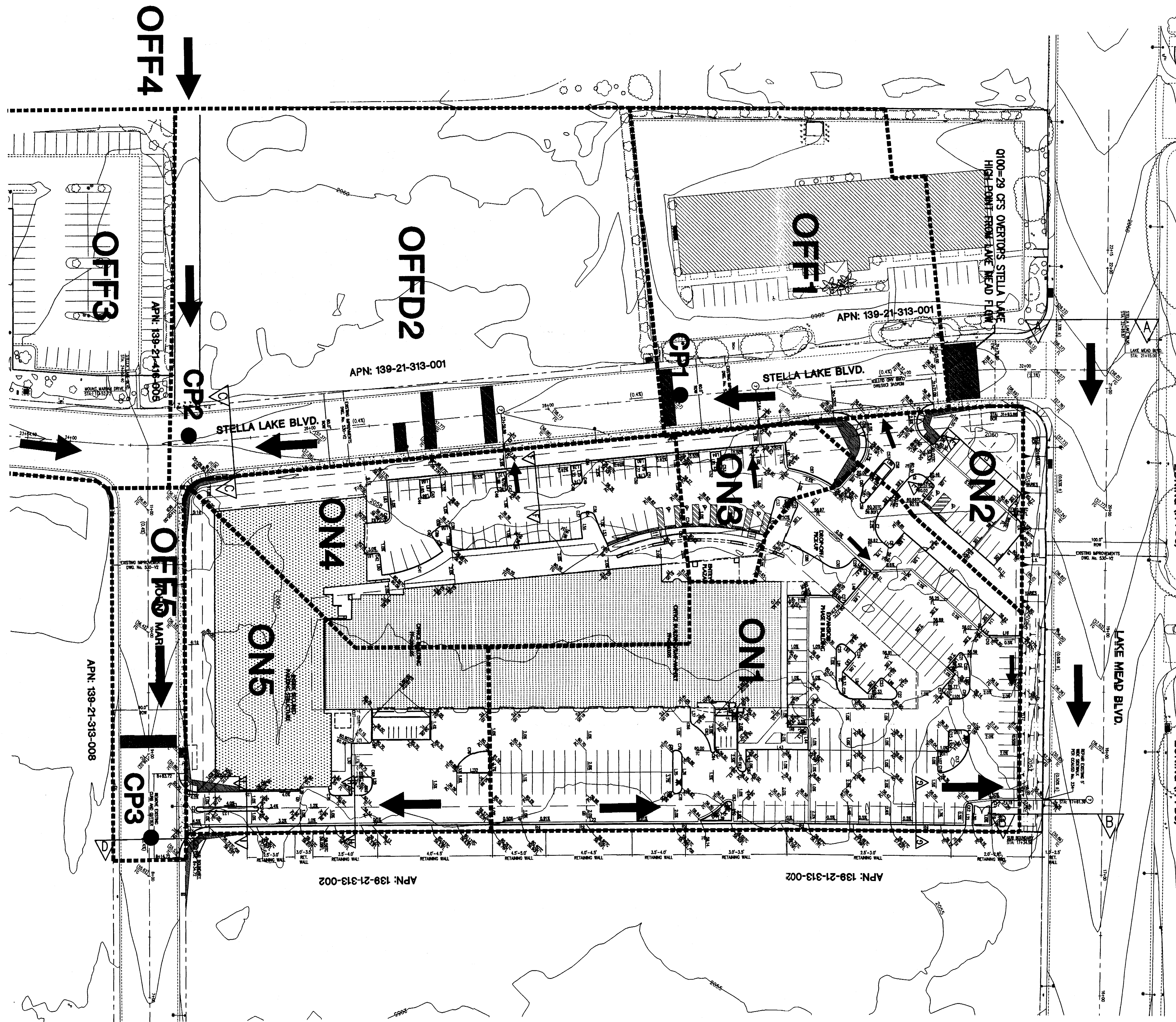


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DEVELOPER	10 NINE DESIGN GROUP 3579 RED ROCK STREET LAS VEGAS, NEVADA 89103 PHONE: (702) 870-7076 FAX: (702) 258-6326
PREPARED BY	JHR Associates Ltd. 4880 W. UNIVERSITY, SUITE B-2 PH (702) 876-2341 LAS VEGAS, NEVADA 89103 FAX (702) 876-8395
SHEET	CROSS SECTIONS
PROJECT	NEVADA HEALTH CENTERS MLK FAMILY CENTER/ADMIN OFFICES CITY OF LAS VEGAS, NEVADA
DRAWN BY	JA
DESIGNED BY	
CHECKED BY	
PROJECT NO.	124-10-698
SCALE	HORIZ: N/A VERT: N/A
SHEET	C7
SHEET	7 OF 9 SHEETS



Reference



LEGEND

- CP1 CONCENTRATION POINT
- OND1 BASIN NAME
- ➔ FLOW DIRECTION
- FLOW SECTION

PEAK FLOW SUMMARY			
DEVELOPED CONDITION			
BASIN NAME / CONC. POINT	AREA, ACRES	10-YR FLOW, CFS	100-YR FLOW, CFS
OFF1	1.41	2	4
OFFD2	2.42	3	7
OFF3	4.63	6	12
OFF4	77.32	65	140
OFF5	0.42	1	2
ON1	0.42	3	6
ON2	0.42	0	1
ON3	0.42	0	1
ON4	0.42	2	4
ON5	0.42	2	3
CP1 *	-	3	34
CP2 *	-	69	175
CP3 *	-	73	184

* Includes split flow (Q₁₀₀=29 cfs) that overtops Stella Lake high point from flow within Lake Mead Blvd.

SECTION (STREET NAME)	SLOPE (%)	Q100 (CFS)	DEPTH (FT)	VELOCITY (FPS)	D X V
A-A (LAKE MEAD)	1.33	1015.00	1.54	10.58	18.29
B-B (LAKE MEAD)	0.50	992.00	1.85	7.79	14.41
C-C (STELLA LAKE)	0.40	176.00	1.08	4.40	4.75
D-D (MOUNT MARIAH)	0.40	184.00	1.10	4.48	4.93
E-E	0.55	1.00	0.16	1.04	0.17
F-F	0.62	4.00	0.27	1.84	0.50
G-G	0.50	6.00	0.31	1.83	0.57
H-H	0.50	3.00	0.25	1.59	0.40
I-I	4.00	3.00	0.20	1.48	0.30

REF.
This grading plan is a part of drainage study # 3581 which was received on 5/8 and N/A on ____ Page F5 Of F-5.

FIGURE 5

Page Southernland Page LLP, Colonial Place 207 Wilson Boulevard, Suite 40 Arlington, VA 22201-3008 Phone (703) 527-4000 Fax (703) 522-9043		6655 Bermuda Road Las Vegas, NV 89119 (702) 938-5400 Fax (702) 938-5454	
STELLA LAKE		DEVELOPED CONDITION DRAINAGE MAP	
DRAWN BY: 5-17-04	DESIGNED BY:	CHECKED BY:	PROJECT NO: 241027
SHEET 1		SCALE: 1" = 40' HORIZ. VERT. N/A	
1 OF 1 SHEETS		DRAWING NO.	

Reference