

DS #: 4986-1

APN: 137.22-000.017.

PROJECT: Summerlin V23B Sky Vista Drive - Alta to Far Hills
Update

SUBMITTAL: 4th

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM		DATE: February 13, 2019
TO: Land Development Services Department of Building & Safety		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:	
Summerlin V23B Sky Vista Drive - Alta to Far Hills - Update		COPIES TO: GCW, Inc.
Cross Streets:	Sky Vista Drive from Alta to Far Hills	The Howard Hughes Company, LLC
File Number:	F:\Depot\DSMemos\DS4980E.doc	Bart Anderson, P.E., DevCo
Parcel Number:	137-22-000-017	CCRFCD
Zoning Action:	MDR-72841	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES X	NO

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	4/11/2018	4/23/2018 & 5/3/2018	Not Approved	\$400.00	495088: \$400
2 nd Submittal	7/3/2018	7/20/2018 & 7/24/2018	Conditional Approval	\$400.00	497102: \$400
CCRFCD	8/20/2018	9/4/2018	Concurrence Recv'd	N/C	N/C
3 rd Submittal	12/20/2018	1/17/2019	Not Approved	\$100.00	501989: \$100
4 th Submittal	1/30/2019	2/13/2019	See Comments Below	N/C	N/C
TOTAL FEES (LDDRS):				\$900.00	----

REMARKS:

3rd & 4th Submittals: Update & Supplement to connect the 2nd outfall pipe from DB5 to the Sky Vista Drive Storm Drain System and the Relocation of an existing stub

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.

The following comments are repeated until they are complete:

- The project proposed to build temporary drainage facilities including drainage berms/ditches along predominantly the west side of the proposed *Sky Vista Drive*. Prior to the final plans approval, the developer must complete a **Maintenance & Liability Agreement** for the interim drainage improvements and post a minimum maintenance bond of \$50,000 or 50-percent of the construction cost for the improvements, whichever is greater. The engineer must submit an estimate of the quantities for constructing the facilities and an exhibit that adequately shows the location and limits of the drainage facilities to *City Flood Control Section* for approval. Once the drainage study is conditionally approved, the engineer/developer should contact *City Land Development Section* (702-229-6371) to begin the agreement process.

In order for the maintenance bond to be released in the future, a drainage update/letter will be required to justify that the berms/ditches are no longer necessary and can be removed.

2. Since the street and the associated storm drain facilities will eventually be dedicated to the **City of Las Vegas**, the engineer/developer must coordinate with *City of Las Vegas Streets & Sanitation Department* for their review and approval for maintenance issues prior to the final acceptance of the subject improvement plans.
3. All offsite interim flood control facilities such as but not limited to berms / ditches and temporary sumps are privately owned and to be privately maintained by the *Howard Hughes Company*.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the Nevada Division of Environmental Protection a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS
WSP/AYS

T/R/S: T20S/R59E/22
AREA K-22

**RESPONSE TO COMMENTS FOR THE
UPDATE TO THE
TECHNICAL DRAINAGE STUDY
FOR
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE**

62023B-240

January 2019

Prepared for:

**Hughes Howard Company, LLC
10801 Charleston Blvd., 3Rd Floor
Las Vegas, Nevada 89146
Phone: (702) 791-4300**



HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Update to Village 23B Sky Vista Drive Alta Drive to Far Hills Avenue Date: January 2019

Location of Development: a) Descriptive (Cross Streets) North/South: Sky Vista Drive

East/West: Alta Drive , Far Hills Avenue

b) Section: 22 Township: 20 S Range: 59 E

c) APN : 137-22-000-017

Name of Owner: Hughes Howard Company, LLC

Telephone No.: (702) 791 - 4300 Fax No.: N/A E-Mail Address: chris.anderson@howardhughes.com

Address: 10801 Charleston Blvd., 3rd Floor, Las Vegas, Nevada 89146

Contact Person-Name: Steve Jones Telephone No.: (702) 804-2130

* E-Mail Address: sjones@gcwengineering.com Fax No.: (702) 804-2299

Firm: GCW, Inc.

Address: 1555 South Rainbow Blvd, Las Vegas, Nevada 89146

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivision Map	☐	Clearing and Grading Only
☐	Parcel Map	☐	Planned Unit Development	☐	Other (Please specify below)
☐	Large Parcel Map	☒	Building Permit	☐	

1. Total Owned Land Area: At Site: +/- 12 Acres Being Developed/Disturbed: +/- 12 Acres

2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? ☐ Yes** ☒ No

3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☐ Yes** ☒ No

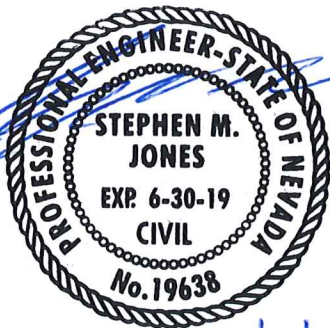
4. Proposed type of development (Residential, Commercial, Etc.): Road Improvement

5. Approximate upstream land area which drains to the subject site: +/- 4000 Acres

6. Has the site drainage been evaluated in the past? ☒ YES ☐ NO If yes, please identify documentation: The Conceptual Drainage Study for Summerlin Village 23B

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: The flow generated by the proposed Sky Vista Drive storm drain conveyed by the Existing 10'X8' RCB

8. Briefly describe your proposed schedule for the subject project: ASAP



Engineer's Seal

1/30/2019

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

***New Required Field**

****Review and concurrence of the Clark County Regional Flood Control District is required.**

	Revision	Date

Local Entity File No. _____

REFERENCE:

STANDARD FORM 1

**RESPONSE TO COMMENTS FOR THE
UPDATE TO THE
TECHNICAL DRAINAGE STUDY
FOR
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE**

62023B-240

January 2019

Authored By:

Masih Edalat, PhD, EI

Prepared By:

**GCW, Inc.
1555 S. Rainbow Blvd.
Las Vegas, NV 89146
Phone: (702) 804-2000
Fax: (702) 804-2299**

62023B-240

January 31, 2019

Albert Y. Sung, PE
Flood Control Project Engineer
City of Las Vegas Land Development Services
Department of Public Works
333 N. Rancho Drive – 7th Floor
Las Vegas, NV 89106

**Re: Response to City of Las Vegas Comments on the Update to the Technical
Drainage Study for Village 23B Sky Vista Drive – Alta Drive to Far Hills Avenue
(DS4980D)**

Dear Mr. Sung:

This letter addresses the City of Las Vegas review comments dated January 17, 2019 regarding the project in its entirety. Below are individual responses to each comment included in the review letter.

Comment 1:

The original stub at Station 380+00.00 has an associated 12.5' drop inlet with it. However, the proposed relocated new lateral does not have an equivalent inlet. Provide as such in the next submittal.

Response:

The reason that the inlet is removed is that, it was located on the access road entrance and the drop inlet would have been crashed if vehicles pass over it. In addition, the drop inlet was designed to collect nuisance flow and no calculation was done for it. The reason that the DI was designed as 12.5' was that, it was on top of a 60" RCP and the DI had to be large enough for pipe turning. Although the drop inlet was designed for nuisance flow, the upstream inlet (DI#4 that is located at 382+01.01, 109 ft upstream of the mentioned drop inlet) has been upsized to 12.5' CM2 DI to compensate the lost DI. DI#4 was designed as 10' CM2. Please refer to email communications with City of Las Vegas in the appendix.

Comment 2:

The proposed public drainage easement encompassing the 60" –RCP must be dedicated and recorded prior to the improvement plans approval.

Response:

The entire detention basin (DB) parcel will be a public drainage easement once the final map records (FMP-74662). The 25' Public Access is for Howard Hughes to maintain the village wall that will be adjacent to Parcel O and the streetscape once the DB has been turned over to the City. Hughes HOA will need to use the access road to the DB to access the backside of the

village walls. It is expected to record the Village 24A Final Map at the beginning of March 2019. This has been discussed with Albert Sung by email. Please see appendix for more information.

If you have any questions or require additional information, please do not hesitate to contact me at 804-2127.

Respectfully,

GCW, INC.



Masih Edalat, PhD, EI
Flood Control Division

CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		January 17, 2019
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Zoning Action:	MDR-72841	
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES X	NO
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CCRFGD		

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1. The original stub at Station 380+00.00 has an associated 12.5'-drop inlet with it. However, the proposed relocated new lateral does not have an equivalent inlet. Provide as such in the next submittal.
2. The proposed public drainage easement encompassing the 60"-RCP must be dedicated and recorded prior to the improvement plans approval.

The following comments are repeated until they are complete:

1. The project proposed to build temporary drainage facilities including drainage berms/ditches along predominantly the west side of the proposed *Sky Vista Drive*. Prior to the final plans approval, the developer must complete a **Maintenance & Liability Agreement** for the interim drainage improvements and post a minimum maintenance bond of \$50,000 or 50-percent of the construction cost for the improvements, whichever is greater. The engineer must submit an estimate of the quantities for constructing the facilities and an exhibit that adequately shows the location and limits of the drainage facilities to *City Flood Control Section* for approval. Once the drainage study is

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END OF REMARKS
WSP/AYS

T/R/S: T20S/R59E/22
AREA K-22

APPENDIX

Masih Edalat

From: Albert Sung <YSung@LasVegasNevada.GOV>
Sent: Thursday, January 24, 2019 05:04 PM
To: Masih Edalat
Subject: RE: Questions regarding Sky Vista and Parcel N-O

Hi Masih,

Yeah, this happens all the time!

For #1, please go ahead explain in the response and upsize the adjacent inlet to kind of compensate the lost inlet.

For #2, What is Howard Hughes or GCW's timeline to record the proposed easement encompassing the 60"-pipe? I can change the condition of approval but I need to know the timeline.

Thank you.

Albert Y. Sung

Project Engineer
Public Works Dept. / Flood Control
(702) 229-6541
333 N. Rancho Dr. 7th Floor
Las Vegas, NV 89106



lasvegasnevada.gov



Your opinion is important! Click [here](#) to take a short survey.

From: Masih Edalat <MEdalat@gcwengineering.com>
Sent: Thursday, January 24, 2019 4:52 PM
To: Albert Sung <YSung@LasVegasNevada.GOV>
Subject: Questions regarding Sky Vista and Parcel N-O

Hi Albert,

Since we missed each other's call, I am sending my questions through email.

- 1- In Comment #1 for Sky Vista Update (comment letter is attached), the reason that we removed previous 12.5 drop inlet is that, it was located on the access road entrance and the drop inlet would have been crashed if vehicles pass over it. In addition, the drop inlet was designed to collect nuisance flow and no calculation was done for it. The reason that the DI was designed as 12.5' was that, it was on top of 60" RCP and it had to be large enough for pipe turning. Although the drop inlet was not designed to capture runoff, one option is to upsize the upstream inlet (DI#4) that is located at 382+01.01 (109 ft upstream of the mentioned drop inlet). DI#4 is designed as 10' CM2, but can be upsized if needed.

- 2- My second question is regarding Comment #2 on Sky Vista Update, and also the comment on Parcel N/O Entry Road approval letter (attached as well). Below is a response I have received from our Land Development staffs:
The entire DB parcel will be a public drainage easement once the final map records (FMP-74662). The 25' Public Access is for Howard Hughes to maintain the village wall that will be adjacent to Parcel O and the streetscape once the DB has been turned over to the City. Hughes HOA will need to use the access road to the DB to access the backside of the village walls. We got the comment cleared up for plan approval, can you see if they will revise this revision comment letter.

Please let me know you thoughts.

Thanks,



[Masih Edalat, PhD, EI](#)

Flood Control Department

O 702.804.2000

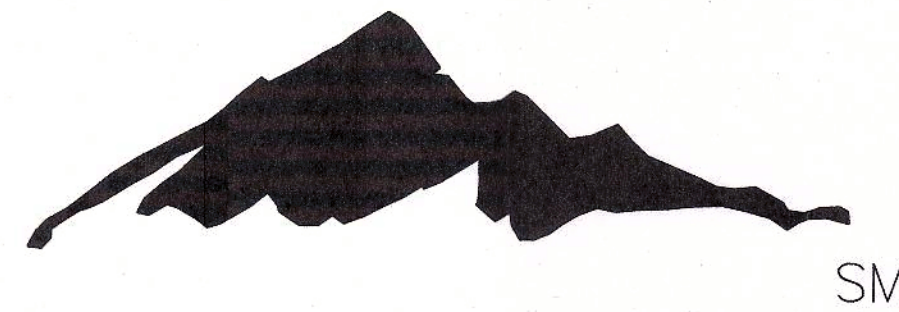
D 702.804.2127

F 702.804.2299

1555 South Rainbow Boulevard
Las Vegas, Nevada 89146

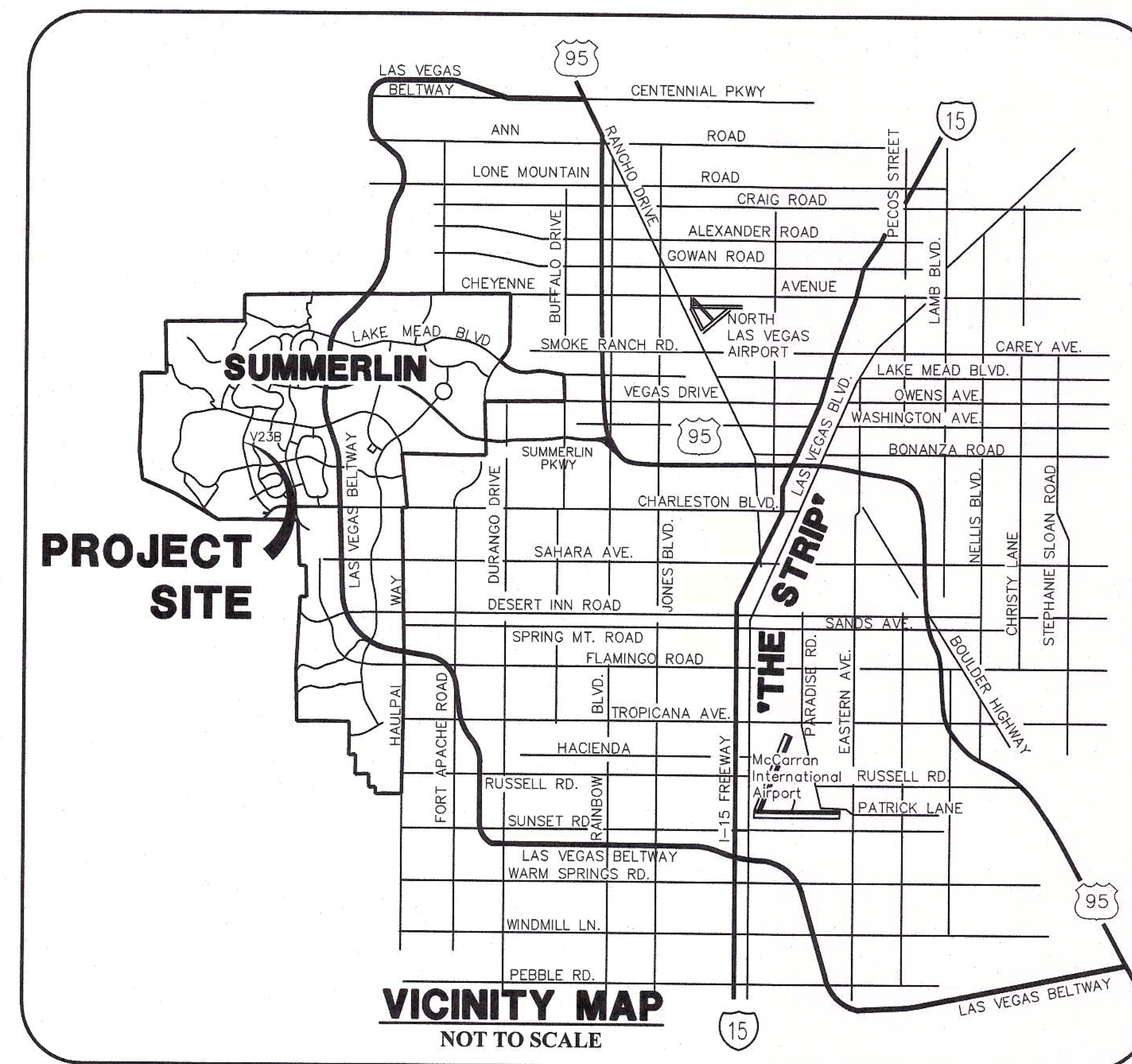
Sending us a large file? Use the [GCW File Transfer Site](#)

SUMMERLIN



VILLAGE 23B SKY VISTA DRIVE IMPROVEMENTS ALTA DRIVE TO FAR HILLS AVENUE 2018

A.P.N. 137-22-000-017 (PORTION), 137-34-111-010, 137-34-111-011, 137-27-410-002, 137-27-310-002, 137-27-210-004
SID NO. 810 PROJECTS 8A, 8B, AND 8C



DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.
MICHAEL FANG, P.E. 24464 DATE 1/29/19

APPROVED FOR CONSTRUCTION

CITY OF LAS VEGAS FIRE DEPARTMENT DATE

CLV PLANNING DEPARTMENT

THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE CITY OF LAS VEGAS PLANNING DEPARTMENT

CITY OF LAS VEGAS PLANNING DEPARTMENT DATE

THE HOWARD HUGHES COMPANY, LLC

KEVIN ORROCK DATE
TITLE: VICE PRESIDENT

ALLEN PAVELKA, PE, PE# 9029 DATE
CITY ENGINEER
CITY OF LAS VEGAS, NEVADA

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

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126388 FIRST APPROVED DATE: 10/22/18
LVWD APPROVED FIRE FLOW: TOTAL 1500 GPM / ON SITE N/A GPM
(SHEETS: 1-6, 9-23, 28-37, 44-46)

UTILITY/AGENCY APPROVALS

COX COMMUNICATIONS LAS VEGAS, INC. DATE

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

NV ENERGY DATE

NEVADA POWER COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY 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.

NV ENERGY - TRANSMISSION ENGINEERING DATE

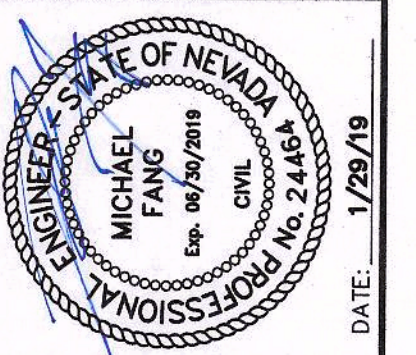
SOUTHWEST GAS CORPORATION DATE

OWNER/DEVELOPER

THE HOWARD HUGHES COMPANY, LLC
10801 W. CHARLESTON BLVD., 3RD FLOOR
LAS VEGAS, NEVADA 89135
OFFICE PHONE NO. (702) 791-4300

ENGINEER

GCV 1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
ENGINEERS & SURVEYORS gcvengineering.com



PROJECT NO.	62023B-240
DESIGN: LG/MB	
DRAWN: LG/MB	
CHECK: JJJ	
PLOT DATE: 01-29-19	
PLOT TIME: 10:32:54	

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com
GCV
ENGINEERS & SURVEYORS
F:\Projects\62023B-240\DWG\Production\240-G1.dwg
Alexander Santiago

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE
COVER SHEET

DRAWING
1
1 OF 46 SHTS

DRAWING NUMBER OR DETAIL W/ REF. TO THE SHEET WHERE IT IS SHOWN	
	BENCHMARK
	POT HOLE LOCATION
	EXISTING NPC RS-100
	EXISTING DROP INLET
	FUTURE DROP INLET
	EXISTING GATE VALVE
	FUTURE GATE VALVE
	EXISTING WATER METER
	PROPOSED WATER FITTINGS
	PROPOSED GATE VALVE
	PROPOSED WATER METER
	EXISTING TRAFFIC SIGNAL PULL BOX
	EXISTING TELEPHONE MANHOLE
	EXISTING POWER POLE
	EXISTING ELEC MARKER
	EXISTING TRAFFIC SIGNAL
	EXISTING FIRE HYDRANT
	FUTURE FIRE HYDRANT
	EXISTING UTILITY BOX
	EXISTING METER BOX
	EXISTING POLE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	SPOT ELEVATION
	EXISTING SPOT ELEVATION
	ROAD SLOPE
	EXISTING CLARK COUNTY STREET LIGHT (STLT)
	EXISTING SUMMERLIN STREET LIGHT (STLT)
	PROPOSED SUMMERLIN STREET LIGHT (STLT)
	PROPOSED TRANSFORMER PAD
	PROPOSED SERVICE PEDESTAL
	PROPOSED PULLBOX
	TOP SLOPE
	TOE SLOPE
	RETAINING WALL
	STORM DRAIN MANHOLE (SEE PLAN FOR SIZE AND TYPE)

A	AIR	FL	FIRE HYDRANT	R, RAD	RADIAL, RADIUS
AC	ASPHALT CONCRETE, ACRE	FL	FLOW LINE	R, RT	RIGHT
ACP	AGGREGATES CEMENT PIPE	FO	FIBER OPTIC	RP	REINFORCED CONCRETE BOX
ADD	ADDITIONAL	FRP	FIBERGLASS REINFORCED PLASTIC	RPC	REINFORCED CONCRETE PIPE
ADP	ANGLE POINT	FRS	FINISH SURFACE	RD	ROAD
APN	ASSESSOR'S PARCEL NUMBER	FT	FOOT/FEET	RDWY	ROADWAY
APPROX	APPROXIMATELY	FTT	FOOTING	REC	RECTANGULAR
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	FUT	FUTURE	REF	REFERENCE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	G	GAS	REINF	REINFORCED
AVE	AVENUE	GA	GAGE, GUY ANCHOR	REQD	REQUIRED
AVAR	AIR VALVE, AIR RELEASE	GB	GRADE BREAK	RND	TOP OF RIM ELEVATION ROUND
AWWA	AMERICAN WATER WORKS ASSOCIATION	GND	GROUND	ROW,R/W	RIGHT OF WAY
BC	BANK OF CURB	H, HGT	HEIGHT	RP	RADIUS POINT
BCR	BEGIN CURB RETURN	HDWL	HEADWALL	RPM	RAISED PAVEMENT MARKERS
BLM	BUREAU OF LAND MANAGEMENT	HGL	HYDRAULIC GRADE LINE	RSVG	RESILIENT SEAT GATE VALVE
BLVD	BOULEVARD	HORIZ	HORIZONTAL	S	SEWER
BM	BENCHMARK	HPS	HIGH PRESSURE SODIUM	SCH	SCHEDULE
BO	BLOW-OFF	IBC	INTERNATIONAL BUILDING CODE	SD	STORM DRAIN
BVCE	BEGIN VERTICAL CURVE ELEVATION	IND	INDUSTRIAL	SDMH	STORM DRAIN MANHOLE
BVPS	BEGIN VERTICAL CURVE STATION	INT	INTERIM	SECT	SECTION
BWC	BEGIN VERTICAL POINT	INT	INTERIM	SF	SQUARE FOOT/FEET
BW	BACK OF SIDEWALK	JO	JOINT	SHLDR	SHOULDER
C, CAG	CENTERLINE	LT	LENGTH	SHT	SHEET
CATY	CURB AND GUTTER	LP	LINEAR FEET	SIS	SUMMERLIN IMPROVEMENT STANDARDS
CCBM	CLARK COUNTY BENCH MARK	LN	LANE	SL	STREET LIGHT
CCPW	CLARK COUNTY PUBLIC WORKS	LP	LOW POINT, LIGHT POLE	SO	SERVICE POINT, SQUARE
CCVY	CLOCKED-CIRCUIT TELEVISION	LSCD	LANDSCAPE	SR	SEWER RECLAIM MAIN
CCWRO	CLARK COUNTY WATER RECLAMATION DISTRICT	LWVD	LAS VEGAS VALLEY WATER DISTRICT	SS	SANITARY SEWER
CFS	CUBIC FEET PER SECOND	LV	LANE	SSM	SANITARY SEWER MANHOLE
CIP	CORRUGATED IRON PIPE	MH	MANHOLE	ST	STATION
CIPM	CURED-IN-PLACE MANHOLE	MIN	MINIMUM	STD	STREET
CIP	CURED-IN-PLACE PIPE	MLC	MORTAR LINED AND COATED PIPE	STD	STANDARD
CIR	CIRCLE	MCTWP	MORTAR LINED & COATED PIPE TAP WRAPPED PIPE	STL	STEEL
CLR	CLEAR OR CLEARANCE	MP	MESA PARK	STRUCT	STRUCTURE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MOD	MODIFY/MODIFIED	SV	SKY VISTA DRIVE
CLV	CITY OF LAS VEGAS	MON	MONUMENT	SVZ	SIGHT VISIBILITY ZONE
CMP	CORRUGATED METAL PIPE	MPH	MILES PER HOUR	SW	SIDEWALK
CMP	CONCRETE MASONRY UNIT	N	NOT A PART	SWG	SOUTHWEST GAS
CONV	CITY OF NORTH LAS VEGAS	N	NOT A PART	TAN	TELEPHONE OR TOP TANGENT
CONC	CONCRETE	NP	NEVADA DEPARTMENT OF TRANSPORTATION	TB	TOP OF BERM
COND	CONDUIT	NO	NUMBER	TC	TOP OF CURB
CONST	CONSTRUCT OR CONSTRUCTION	NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	TELE	TELEPHONE CONSTRUCTION ESM
COORD	COORDINATE	NPC	NEVADA POWER COMPANY	TEMP	TEMPORARY
CFEP	CORRUGATED POLYETHYLENE PIPE COURT	NTS	NOT TO SCALE	TF	TOP OF FOOTING
CT	CUBIC YARD(S)	NVE	NV ENERGY	TG	TOP OF GATE
CV	CURB	OB	ON OVERBUILD	TMH	TOP OF MANHOLE
DBL	DOUBLE	OC	ON CENTER	TP	TOP OF PIPE
DCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)	OCH	OVERHEAD COX COMMUNICATION	TRANS	TRANSITION
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)	OHP	OVERHEAD POWER LINE	TRW	TOP OF RETAINING WALL
DEFL	DEFLECTION	PB	POWER LINE	TS	TEST STATION
D/D.I.	DESIGN GRADE	PB	POWER LINE	T&V	TAPPING SLEEVE & VALVE
DIA, Ø	DROP INLET	PB	POWER LINE	UD	TOP OF WALL
DIA, Ø	DIAMETER	PBS	PLANTMIX BITUMINOUS SURFACE	UTP,(TYP)	UNIFORM
DIST	DISTANCE	PC	POINT OF CURVE, PRESSURE	UDACS	UNDERGROUND UTAP
DS	DOWNPOUT	PCE	POINT OF COMPOUND CURVE	UG	UNDERGROUND
DTL	DETAIL	PE	PROJECT ENGINEER OR POLYETHYLENE	ULT	ULTIMATE
DWG	DRAWING	PED	PEDESTRIAN	USDOCA, CCAUSD	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
ECR	END CURB RETURN	PGL	PROFILE GRADE LINE	UT	UNDERGROUND TELEPHONE
ELE,ELEO	ELECTRICAL ELEVATION	PH	POT HOLE	VAR	VARIABLE/VARIES
ELEV	ELEVATION	PI	POINT OF INTERSECTION	VC	VERTICAL CURVE
EXP, EOP	EDGE OF PAVEMENT	PV	POST INDICATOR VALVE	VCP	VITRIFIED CLAY PIPE
EVC	END VERTICAL CURVE	R	PROPERTY LINE	VERT	VERTICAL
EVP	END VERTICAL POINT	PMP	PAVEMENT MARKING FILM	VOL	VOLUME
EXIST, EX	EXISTING	POB	POINT OF BEGINNING	W	WATER
EXP	EXPANSION JOINT	POC	POINT OF CURVE, POINT OF CONNECTION	W/	WITH
FC	FACE OF CURB	PRC	POINT OF REVERSE CURVE	WMH	WATER MANHOLE
FF, FFE	FINISH FLOOR ELEVATION	PRVC	POINT OF REVERSE VERTICAL CURVE	WS	WATER SUPPLY
FG	FINISH GRADE	PSI	POUNDS PER SQUARE INCH	WTR	WATER
		PT	POINT OF TANGENCY	XING	CROSSING
		PVC	POLYVINYL CHLORIDE	YD	YARD, YARD DRAIN
		PVMT	PAVEMENT		PRESSURE, ZONE
		HP	HIGH PRESSURE		

NO.	DWG	DESCRIPTION
1	1	COVER SHEET
2	2	LEGEND AND ABBREVIATIONS
3	3	GENERAL NOTES
4	4	REMOVAL PLAN 1
5	5	REMOVAL PLAN 2
6	6	REMOVAL PLAN 3
7	7	HORIZONTAL CONTROL 1
8	8	HORIZONTAL CONTROL 2
9	9	MASTER UTILITY PLAN - WATER
10	10	MASTER UTILITY PLAN - STORM DRAIN
11	11	MASTER UTILITY PLAN - SEWER
12	12	PLAN AND PROFILE 1
13	13	PLAN AND PROFILE 2
14	14	PLAN AND PROFILE 3
15	15	PLAN AND PROFILE 4
16	16	PLAN AND PROFILE 5
17	17	PLAN AND PROFILE 6
18	18	PLAN AND PROFILE 7
19	19	PLAN AND PROFILE 8
20	20	PLAN AND PROFILE 9
21	21	PLAN AND PROFILE 10
22	22	PLAN AND PROFILE 11
23	23	PLAN AND PROFILE 12
24	24	DAYLIGHT GRADING 1
25	25	DAYLIGHT GRADING 2
26	26	DAYLIGHT GRADING 3
27	27	DAYLIGHT GRADING 4
28	28	LATERAL PROFILES 1
29	29	LATERAL PROFILES 2
30	30	LATERAL PROFILES 3
31	31	LATERAL PROFILES 4
32	32	LATERAL PROFILES 5
33	33	LATERAL PROFILES 6
34	34	LATERAL PROFILES 7
35	35	DETAILS 1
36	36	DETAILS 2
37	37	ROADWAY TYPICAL SECTIONS
38	38	CHANNEL TYPICAL SECTIONS
39	39	ROADWAY SIGNING AND STRIPING PLAN 1
40	40	ROADWAY SIGNING AND STRIPING PLAN 2
41	41	ROADWAY SIGNING AND STRIPING PLAN 3
42	42	ROADWAY SIGNING AND STRIPING PLAN 4
43	43	STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 1
44	44	STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 2
45	45	STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 3
46	46	STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 4
26A	26A	OFFSITE STORM DRAIN PLAN AND PROFILE

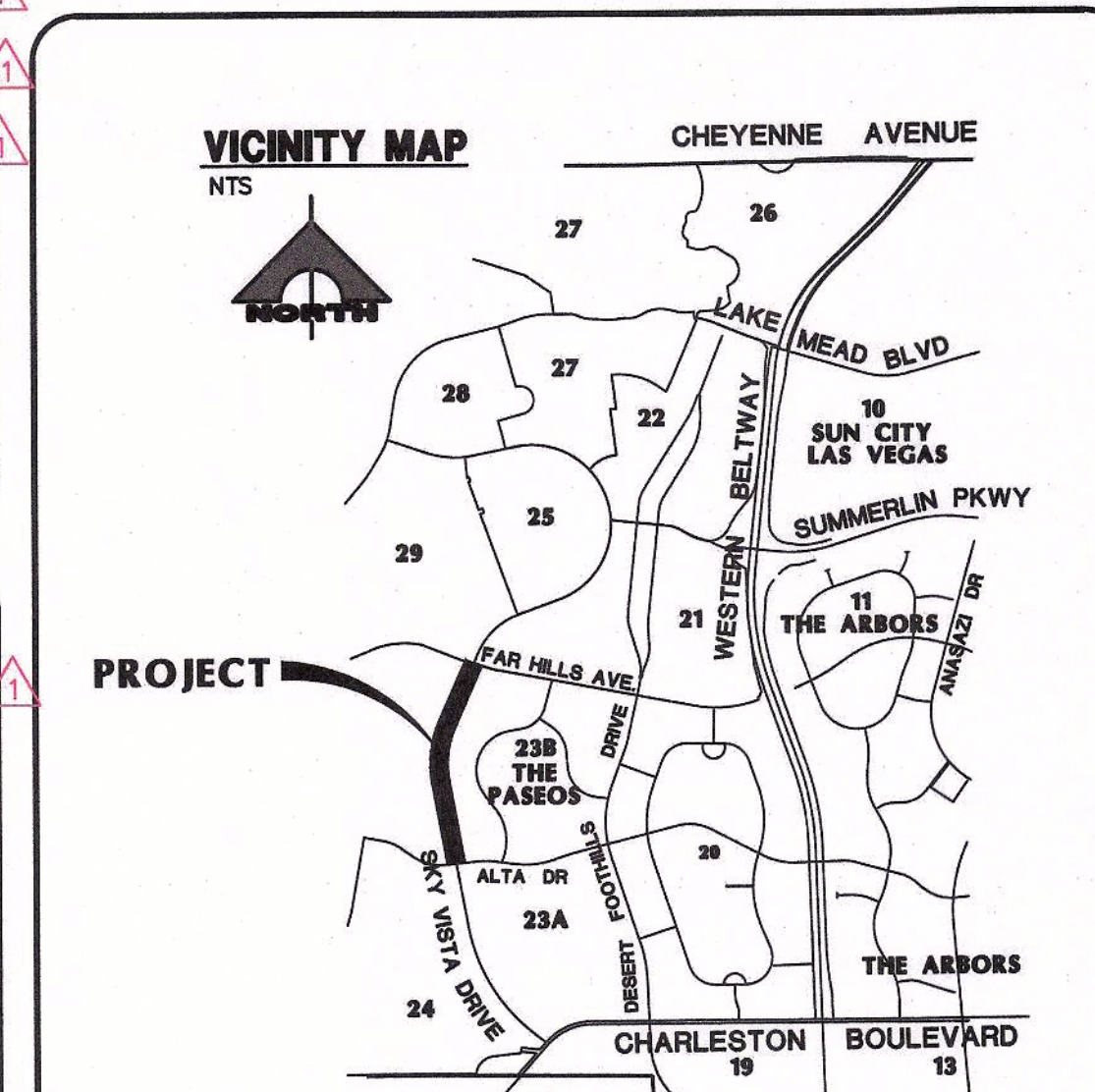
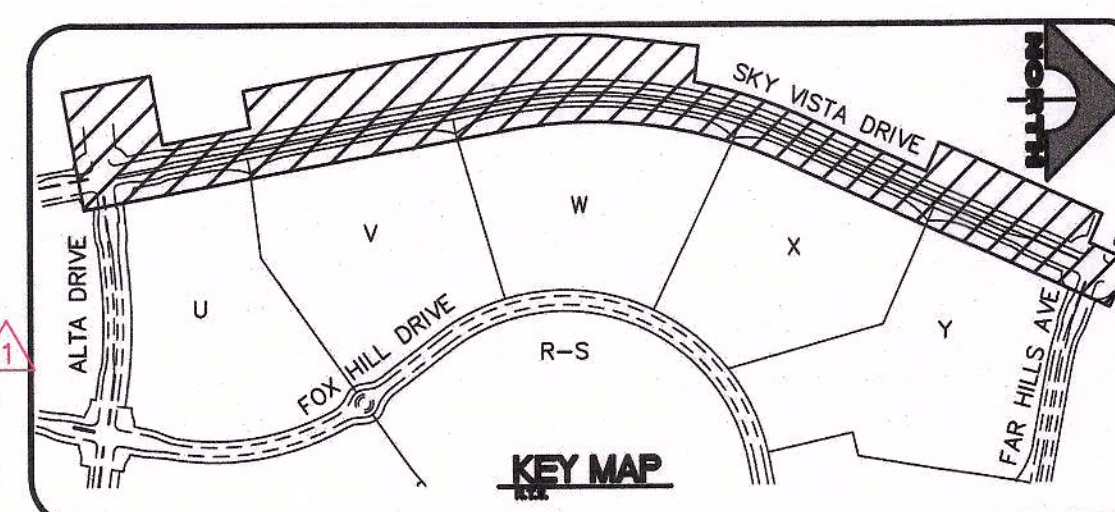
60" RCP	517	LF
60" RCP W/ 1" SACRIFICIAL CONCRETE	2,231	LF
54" RCP	964	LF
42" RCP	95	LF
24" RCP	140	LF
18" RCP	406	LF
24" C900 PVC	127	LF
18" C900 PVC	297	LF
TYPE II MANHOLE	2	EA
TYPE II-SD MANHOLE	12	EA
TYPE III-SD MANHOLE	2	EA
5' TYPE "CM2" DROP INLET	11	EA
10.0' TYPE "CM2" DROP INLET	2	EA
12.5' TYPE "CM2" DROP INLET	1	EA

IS TO VIEW THE STATE AS A POLITICAL

1" PVC	427	LF
2" DIP	339	LF
2"x6" TEE & VALVE (FIRE HYDRANT)	3	EA
FIRE HYDRANT ASSEMBLY	10	EA
1" VALVE	2	EA
3" VERTICAL 45° BEND	20	EA
2" VERTICAL 45° BEND	10	EA
2"x6" REDUCER	2	EA
2" CAP AND BLOW-OFF	3	EA
1" END CAP PER UDACS PLATE NO. 31	1	EA
2"x12" TAPPING SLEEVE & VALVE (TS&V)	3	EA
2"x6" TAPPING SLEEVE & VALVE (TS&V)	3	EA
1-1/2" METER AND 1-1/2" RPPA	3	EA

12" PVC	2,636	LF
12" C900	1,528	LF
8" PVC	201	LF
48" MANHOLE	3	EA
60" MANHOLE	11	EA
PIPE END CAPS	4	EA

EXCAVATION & EMBANKMENT	93,513	CY
4 IN. AC PAVEMENT	33,500	SY
TYPE II AGGREGATE	3,750	CY
TYPE "L" CURB - 6"	10,097	LF
TYPE "A" CURB	9,563	LF
BUS TURNOUT	1,670	SF
PAVEMENT STRIPING-ARTERIAL	5,258	LF
BIKE LANE STRIPING	5,258	LF
PAVEMENT MARKERS	5,258	LF
SIGNAGE	5,258	LF



SOUTHWEST GAS CONSTRUCTION NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-688-6107 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2098.

LYING WITHIN SECTIONS 27 & 34 TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN F 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

DESCRIPTION	NAVD 88 DATUM	NAV DA
RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE	3304.45 (FEET)	100 (ME
CLV BM No. 5LV09 34NE6		

[illegible][illegible]

PROJECT NO.	
62023B-240	
DESIGN:	LG/MB
DRAWN:	LG/MB
CHECK:	JLJ
PLOT DATE:	01-29-19
PLOT TIME:	11:27:43

GCW
ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

Project# 6001 ©2012 35-240 DWG/Production 240-02.dwg

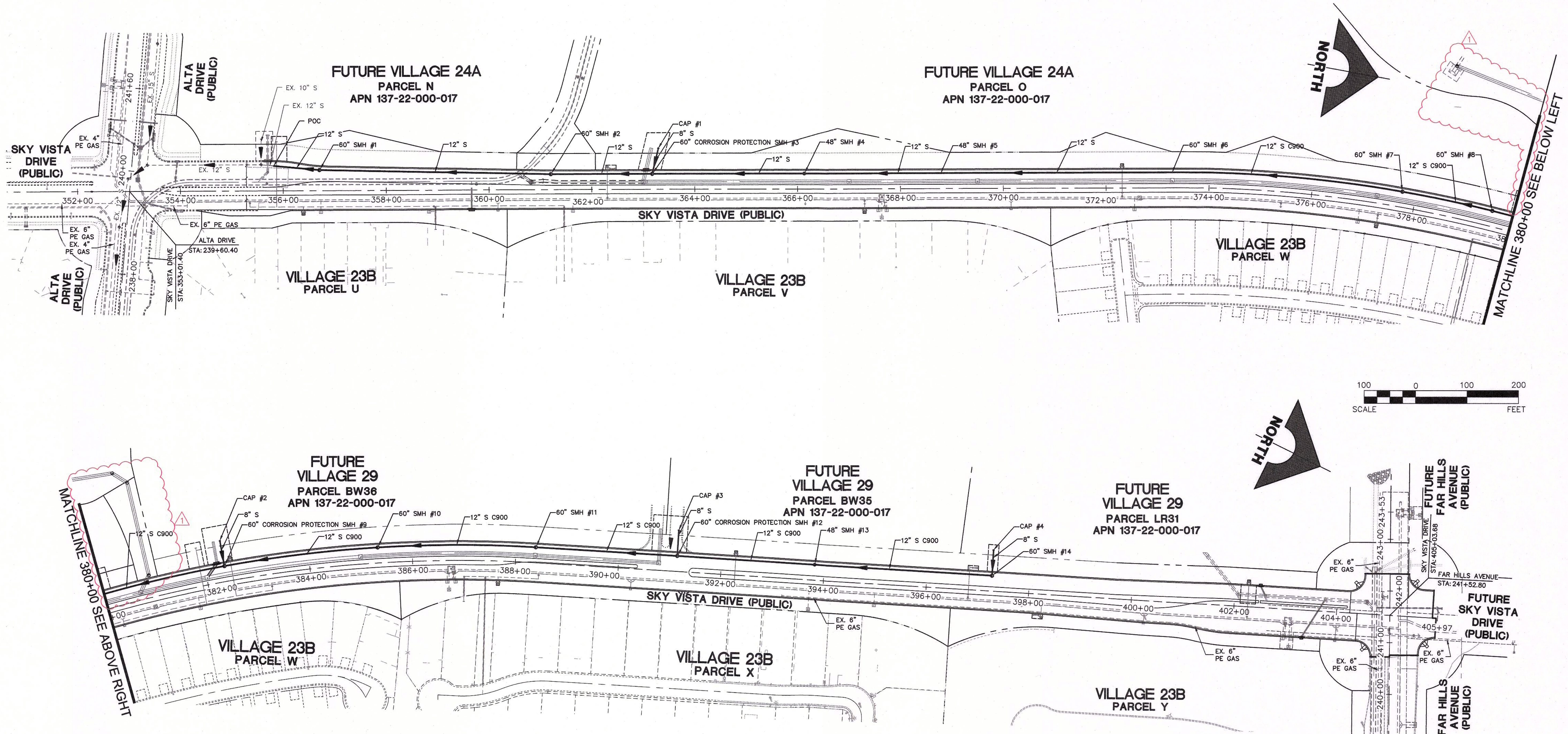
THE HOWARD HUGHES COMPANY, LLC

VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE

LEGEND AND ABBREVIATIONS

DRAWING
2
2 OF 46 SHTS

CLV# 107V7418 L18-01503



SANITARY SEWER MANHOLE SCHEDULE							
MH #	STREET NAME	STATION & OFFSET	RIM	INV IN	INV OUT	NORTHING	EASTING
SMH #1	SKY VISTA DRIVE	356+70.21, 40.00' L	3457.0±	3443.01	3442.81	517430.41	563661.85
SMH #2	SKY VISTA DRIVE	361+20.10, 30.00' L	3476.5±	3459.96	3459.76	517874.42	563588.63
SMH #3	SKY VISTA DRIVE	363+17.44, 30.00' L	3485.0±	3471.22 3471.55	3471.02	518068.37	563552.20
SMH #4	SKY VISTA DRIVE	366+13.09, 30.00' L	3497.8±	3485.12	3484.92	518358.94	563497.63
SMH #5	SKY VISTA DRIVE	368+78.74, 30.00' L	3506.3±	3492.23	3492.03	518620.02	563448.59
SMH #6	SKY VISTA DRIVE	373+28.74, 30.00' L	3518.2±	3504.13	3503.93	519062.28	563365.52
SMH #7	SKY VISTA DRIVE	377+73.40, 30.00' L	3530.0±	3517.83	3517.63	519509.59	563322.12
SMH #8	SKY VISTA DRIVE	379+50.00, 30.00' L	3534.7±	3521.34	3521.14	519688.20	563327.04
SMH #9	SKY VISTA DRIVE	382+37.31, 30.00' L	3542.3±	3527.04 3526.72	3526.52	519976.70	563361.92
SMH #10	SKY VISTA DRIVE	385+33.74, 30.08' L	3549.9±	3536.03	3535.83	520268.15	563432.25
SMH #11	SKY VISTA DRIVE	388+37.90, 30.00' L	3555.9±	3541.62	3541.42	520556.33	563539.88
SMH #12	SKY VISTA DRIVE	391+13.40, 30.00' L	3561.3±	3545.74 3546.08	3545.54	520808.12	563651.72
SMH #13	SKY VISTA DRIVE	393+81.30, 30.00' L	3566.1±	3550.85	3550.65	521052.95	563760.47
SMH #14	SKY VISTA DRIVE	397+26.70, 30.00' L	3564.3±	3555.50	3555.17	521368.60	563900.67

SOUTHWEST GAS APPROVAL

SOUTHWEST GAS CORPORATION _____ DATE _____

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 125398 FIRST APPROVED DATE: 10/22/18

Call before you Dig
811
1-800-227-2800
CLARK COUNTY PUBLIC OPERATIONS
1-702-455-6000

CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

FAST
Call before you UnderGround
1-702-432-6300
FREEMAN AND ARTERIAL
SYSTEMS OF TRANSPORTATION

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE

MASTER UTILITY PLAN - SEWER

DRAWING 11

11 OF 46 SHTS

PROJECT NO. 62023B-240

DESIGN: LG/MB

DRAWN: LG/MB

CHECK: JJJ

PLOT DATE: 01-23-19

PLOT TIME: 10:35:34

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gownengineering.com

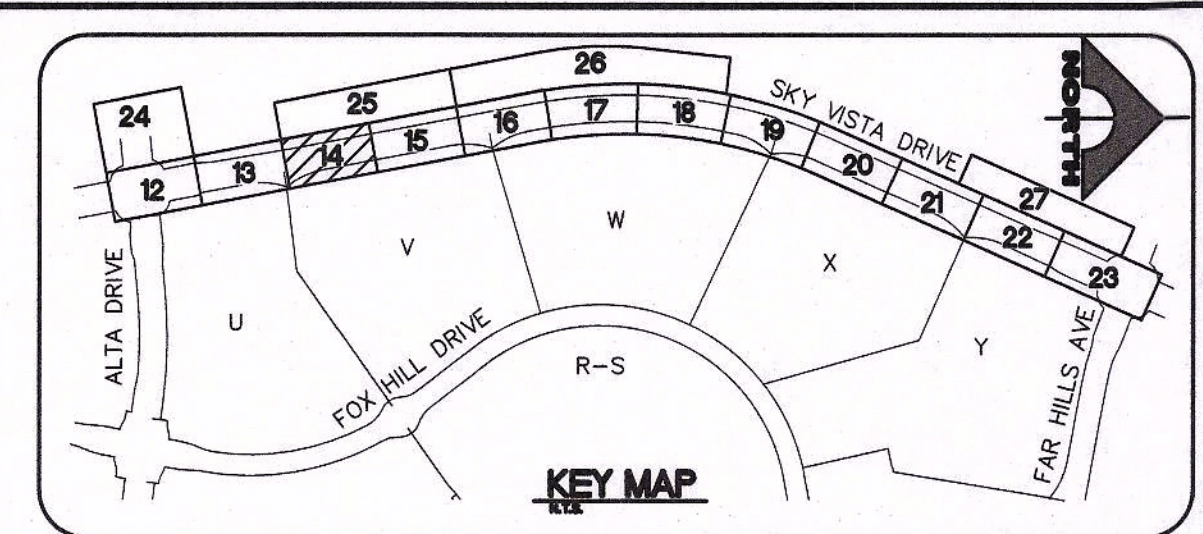
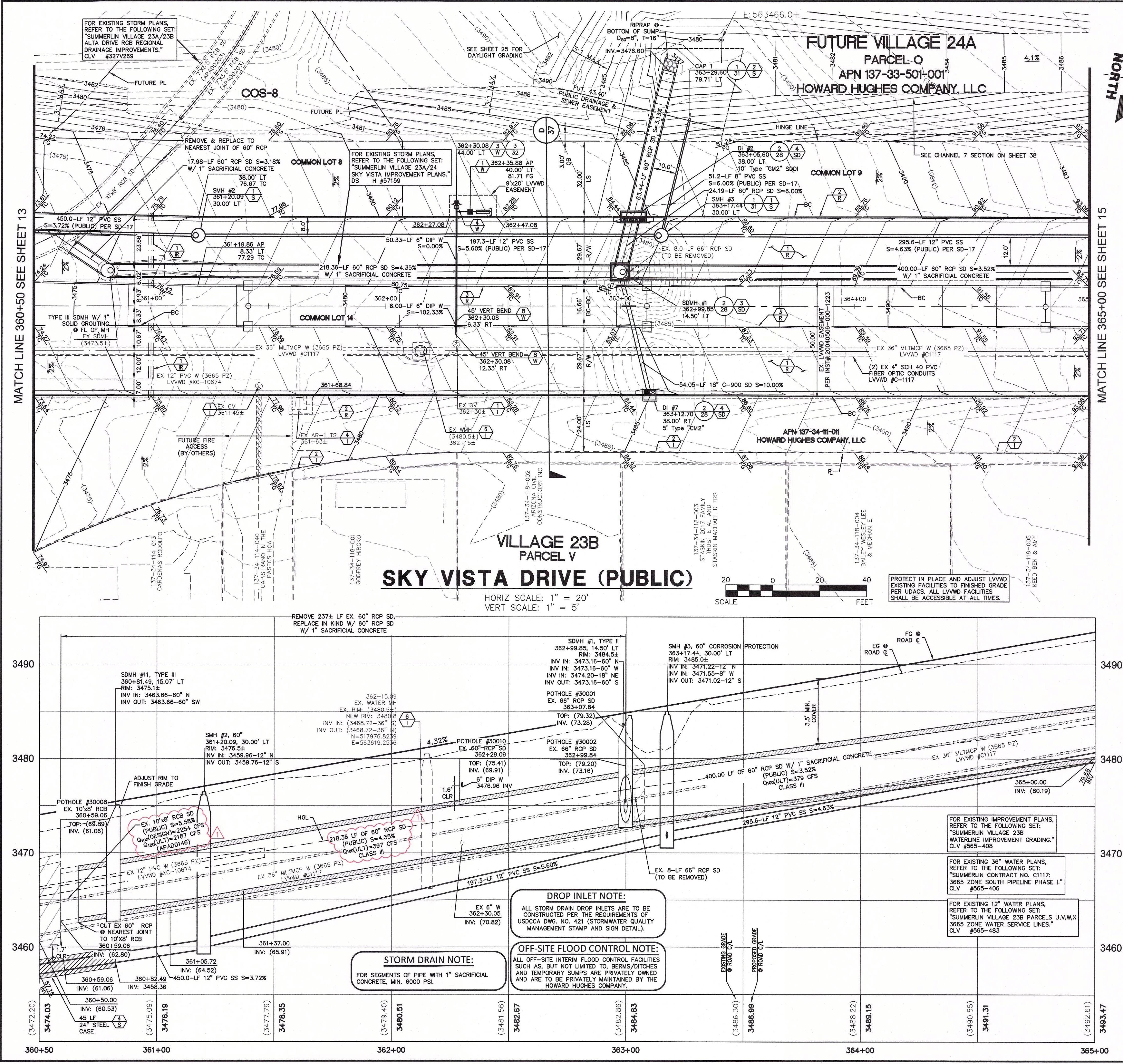
GCV
ENGINEERS & SURVEYORS

STATE OF NEVADA
PROFESSIONAL ENGINEER
MICHAEL PANG
Exp. 04/20/2019
CIVIL
NO. 24464

DATE: 1/29/19



THE HOWARD HUGHES COMPANY, LLC	VILLAGE 23B SKY VISTA DRIVE ALTA DRIVE TO FAR HILLS AVENUE	PLAN AND PROFILE 2
DRAWING 13 13 OF 46 SHTS		



- IMPROVEMENT NOTES:**
1. ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
 2. EXISTING MASONRY WALL AND FENCE BY OTHERS. PROTECT IN PLACE.
 3. EXISTING WATER 6" BLOW-OFF PROTECT IN PLACE. RAISE COVER TO FINAL PAVEMENT GRADE PER UDACS PLATE NO. 37.
 4. EXISTING WATER TEST STATION PROTECT IN PLACE. RAISE TO FINAL CURB GRADE.
 5. EXISTING WATER FIBER OPTIC PULLBOX PROTECT IN PLACE. RAISE TO FINAL CURB GRADE.
 6. EXISTING WATER ACCESS MANHOLE PROTECT IN PLACE. RAISE TO FINAL PAVEMENT GRADE PER DETAIL 8 SHEET 35 & DETAIL 9 SHEET 36.
 7. EXISTING WATER VALVE VAULT PROTECT IN PLACE.
 8. EXISTING WATER AVAR PROTECT IN PLACE. ADJUST TO FINISH GRADE IF REQUIRED. PER UDACS PLATE NO. 38.
 9. EXISTING MANHOLE PROTECT IN PLACE. RAISE COVER TO FINAL PAVEMENT GRADE IF IMPACTED BY PAVEMENT IMPROVEMENTS.
 10. EXISTING DROP INLET PROTECT IN PLACE.
 11. EXISTING WATER FIBER OPTIC SPLICER PIT PROTECT IN PLACE. RAISE TO FINAL GRADE PER DETAIL 8 SHEET 35 & DETAIL 9, 10 SHEET 36.
- ROADWAY IMPROVEMENTS NOTES:**
1. INSTALL A.C. PAVEMENT PER STREET SECTIONS, SEE SHEET 37.
 2. INSTALL 6" "L" TYPE CURB & GUTTER, SEE SUMMERLIN STD DWG S-47.
 3. INSTALL "A" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG S-50.
 4. INSTALL CONCRETE BUS TURNOUT PER USD DWG. NO. 234.1.
- WATER CONSTRUCTION NOTES:**
1. INSTALL 1-1/2" WATER METER AND 1-1/2" RPPA PER UDACS PL. NO. 4 AND 8 (IRRIGATION) & PER DETAIL 7 SHEET 35.
 2. INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PL. NO. 36.
 3. INSTALL FIRE HYDRANT PER UDACS PL. NO. 30, 39 AND 40. FOR "DEEP" FIRE HYDRANTS SEE UDACS PL. NO. 41.
 4. INSTALL GATE VALVE AND BOX PER UDACS PL. NO. 30 AND 39.
 5. INSTALL TEE PER UDACS PL. NO. 31.
 6. INSTALL HORIZONTAL BEND PER UDACS PL. NO. 31.
 7. REMOVE CAP AND BLOWOFF PER UDACS PL. NO. 36 AND CONNECT TO EX WATER LINE (CONTRACTOR TO VERIFY SIZE, INVERT AND LOCATION OF EX WATER PRIOR TO CONSTRUCTION).
 8. INSTALL VERTICAL BEND PER UDACS PL. NO. 31 UNLESS OTHERWISE IDENTIFIED. (SEE PLAN FOR ANGLE).
 9. INSTALL REDUCER (SEE PLAN FOR SIZE).
 10. INSTALL 12"x6" TAPPING SLEEVE AND 6" TAPPING VALVE PER UDACS PLT No. 30, 31, 34, 39 & SECTION 2.24.01B.
 11. INSTALL 12"x12" TAPPING SLEEVE AND 12" TAPPING VALVE PER UDACS PLT No. 30, 31, 34, 39 & SECTION 2.24.01A.
- SEWER CONSTRUCTION NOTES:**
1. INSTALL SEWER MANHOLE PER DCS STD. DWG. 1A AND 1B, WITH SINGLE 24" LID.
 2. STUB AND CAP SEWER PIPE PER DETAIL 2, DRAWING 35.
 3. REMOVE PLUG AND CONNECT TO EX SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT AND LOCATION OF EX SEWER PRIOR TO CONSTRUCTION).
 4. INSTALL STEEL CASING PER UDACS PL. NO. 23 WITH MECHANICALLY RESTRAINED JOINTS AND SPACERS AT 4' O.C. NO CLSM.
- STORM DRAIN CONSTRUCTION NOTES:**
1. INSTALL TYPE I MANHOLE PER USD DWG. NO. 403.
 2. INSTALL TYPE II MANHOLE PER USD DWG. NO. 405.1.
 3. INSTALL TYPE II-SD MANHOLE PER USD DWG. NO. 405.2.
 4. INSTALL TYPE "CM2" DROP INLET PER USD DWG. NO. 412.1 AND 421.
 5. REMOVE PLUG AND CONNECT TO EX STORM DRAIN LINE (CONTRACTOR TO VERIFY SIZE, INVERT AND LOCATION OF EX STORM DRAIN PRIOR TO CONSTRUCTION).
 6. BASE AND WALLS TO BE CAST-IN-PLACE MONOLITHIC POUR. SEAL BETWEEN WALLS AND ROOF TO BE KENT SEAL, OR APPROVED EQUAL.
 7. INSTALL TYPE "C" DROP INLET PER USD DWG. NO. 413 AND 421.
 8. INSTALL TEMPORARY PLUG AND CAP.
- IRRIGATION CONSTRUCTION NOTES:**
1. BANK "A": 1-6" & 2-4" SCH 40 PVC. PER DETAIL 3 DRAWING 35.
 2. BANK "B": 2-4" SCH 40 PVC. PER DETAIL 4 DRAWING 35.

BENCHMARK

BM #	DESCRIPTION	NAVD 88 DATUM (FEET)	NAVD 88 DATUM (METERS)
SLV09-34NE6	RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE	3304.45	1007.197

NOTE

THIS SET OF DRAWINGS IS BASED UPON NAVD 88 DATUM. PREVIOUS DRAWINGS MAY BE BASED ON OTHER DATUM. CARE SHOULD BE OBSERVED WHEN UTILIZING THIS SET OF DRAWINGS.

BASIS OF BEARINGS

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126398 DATE: _____

Call before you Dig
811
1-800-227-2600
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

Call before you Dig
FAST
1-702-227-2929

Call before you Dig
FAST
1-702-432-5300
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

STATE OF NEVADA
ENGINEER
MICHAEL FINE
Lic. No. 24464
Civil
1/29/19

PROJECT NO.: 62023B-240
DESIGN: LG/MB
DRAWN: LG/MB
CHECK: JJJ
PLOT DATE: 01-29-19
PLOT TIME: 10:40:08

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gownengineering.com

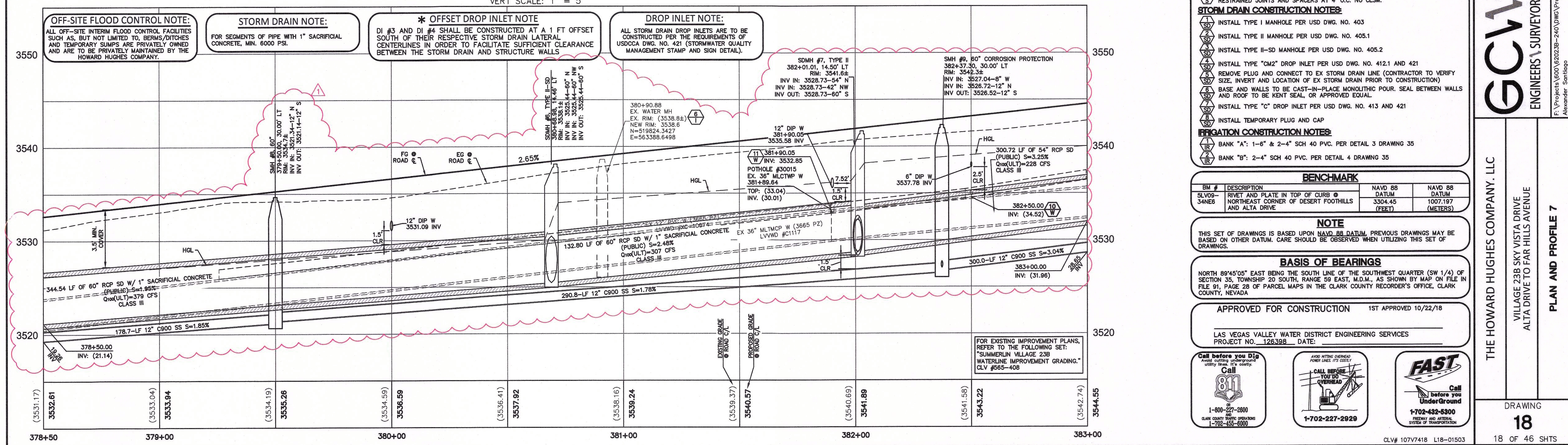
ENGINEERS & SURVEYORS

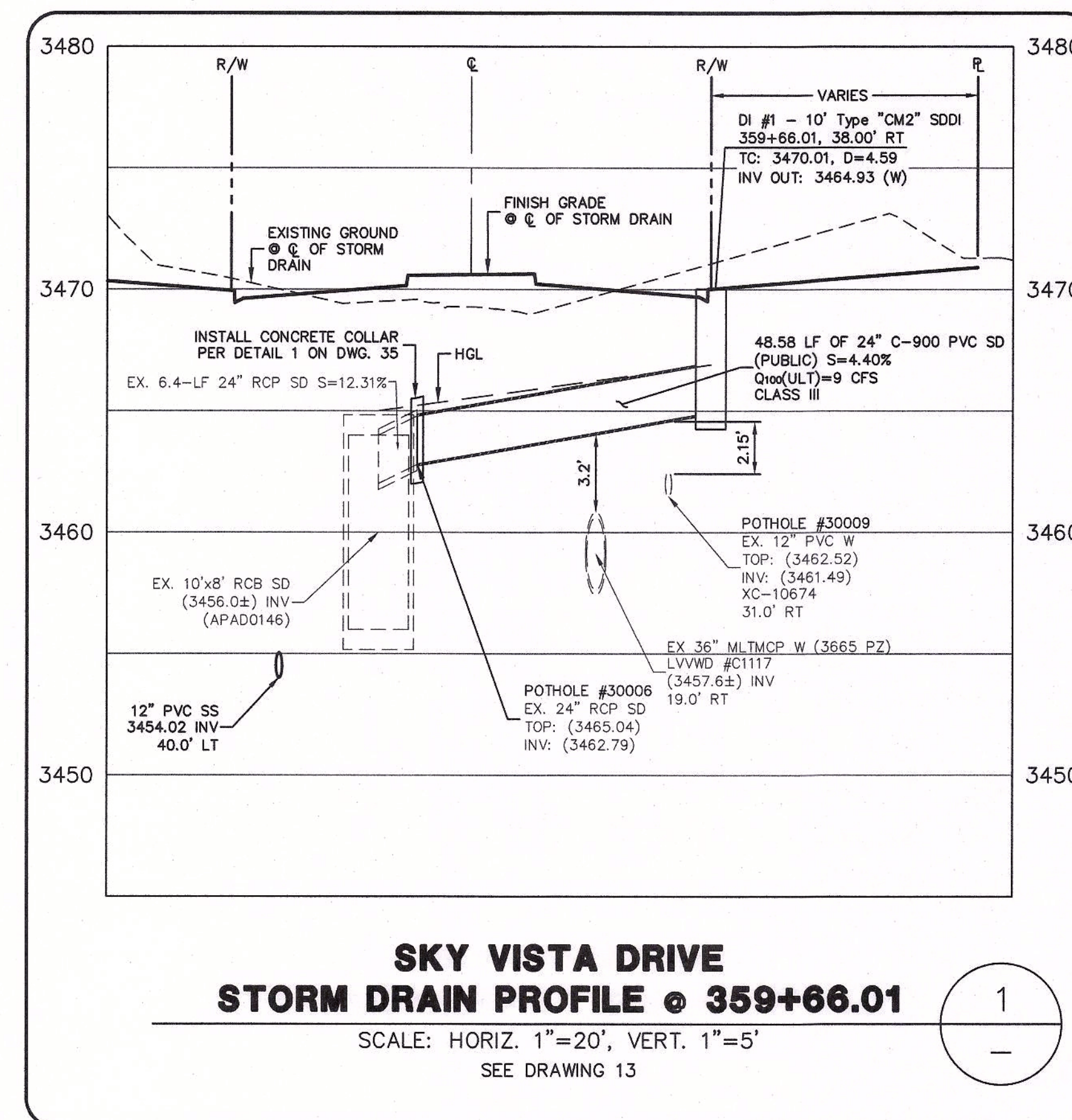
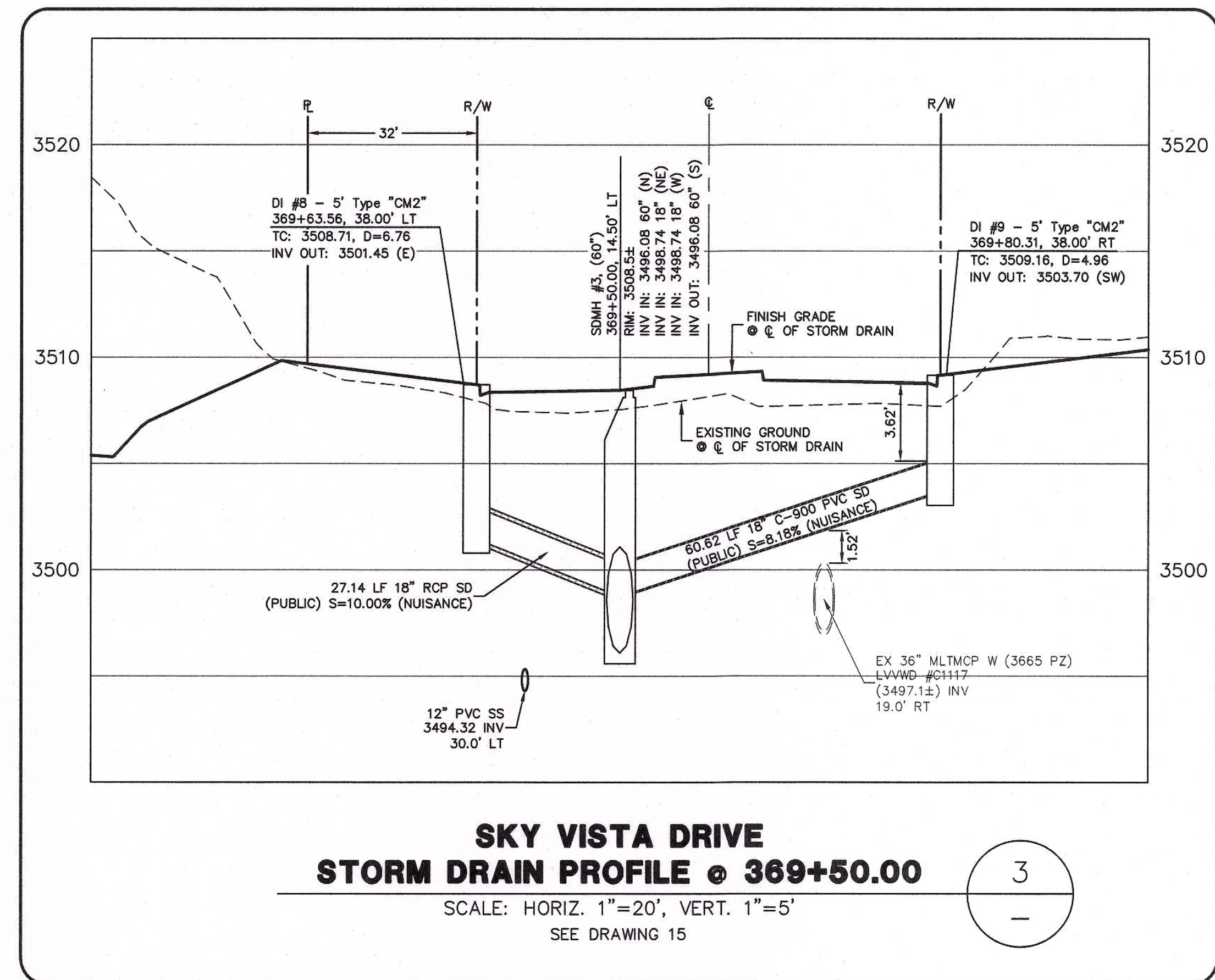
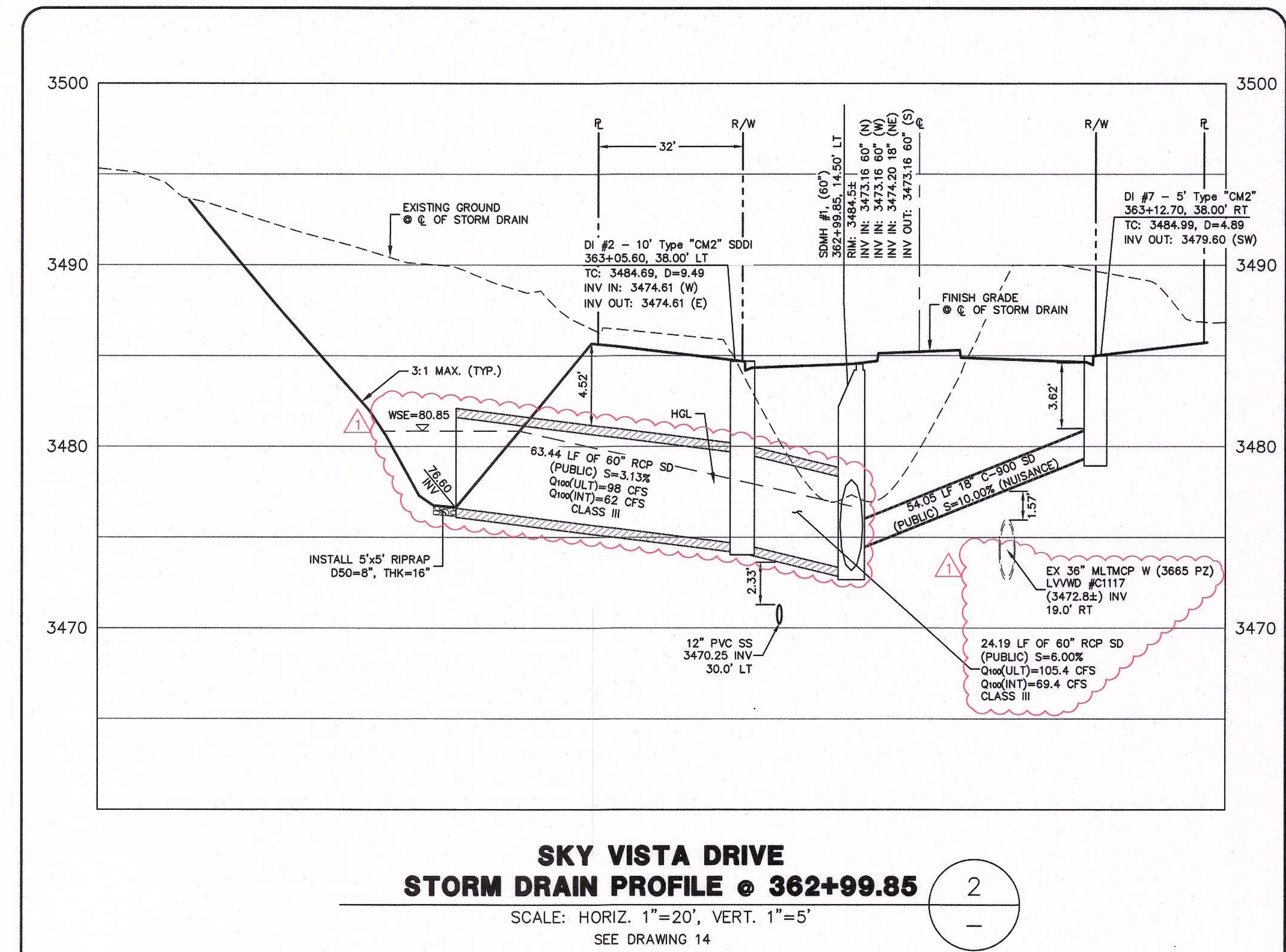
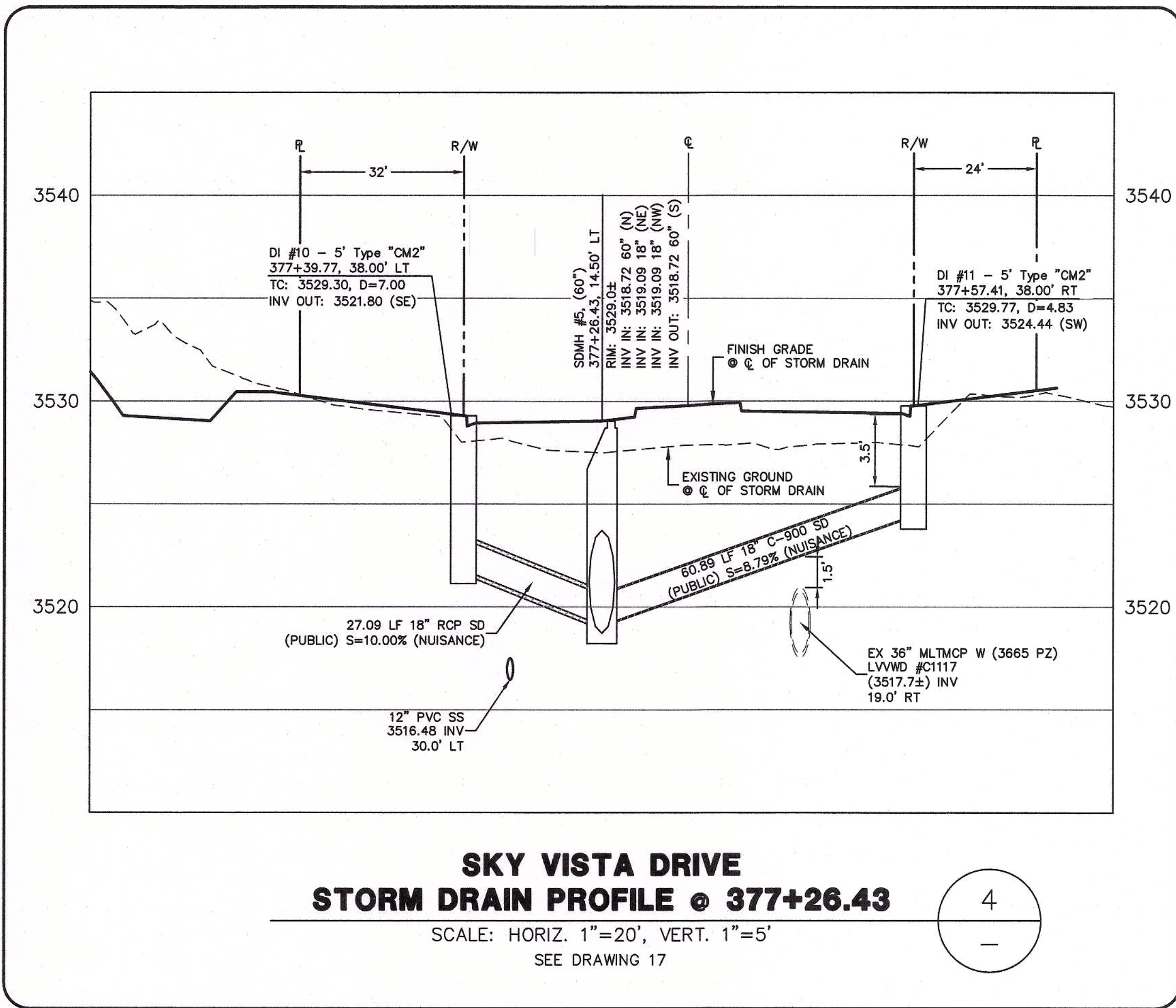
THE HOWARD HUGHES COMPANY, LLC
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE

PLAN AND PROFILE 3

DRAWING 14

14 OF 46 SHITS





NOTE
IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET, FROM THE TOP OF THE LVWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER, I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE "NO EQUIPMENT ZONE".

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

DROP INLET NOTE:
ALL STORM DRAIN DROP INLETS ARE TO BE CONSTRUCTED PER THE REQUIREMENTS OF USDOCA DWG. NO. 421 (STORMWATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL).

OFF-SITE FLOOD CONTROL NOTE:
ALL OFF-SITE INTERIM FLOOD CONTROL FACILITIES SUCH AS, BUT NOT LIMITED TO, BERMS/DITCHES AND TEMPORARY SUMPS ARE PRIVATELY OWNED AND ARE TO BE PRIVATELY MAINTAINED BY THE HOWARD HUGHES COMPANY.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126398 FIRST APPROVED DATE:

PROJECT NO. 62023B-240
DESIGN: LG/MB
DRAWN: LG/MB
CHECK: JLL
PLOT DATE: 01-29-19
PLOT TIME: 10:45:39

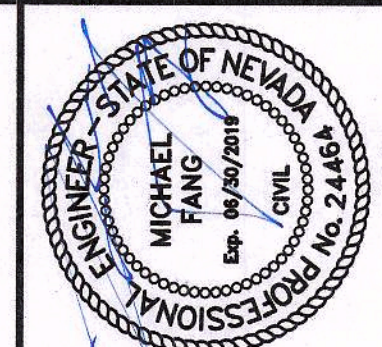
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

GOWING
ENGINEERS & SURVEYORS

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE

LATERAL PROFILES 1

DRAWING 28
28 OF 46 SHITS

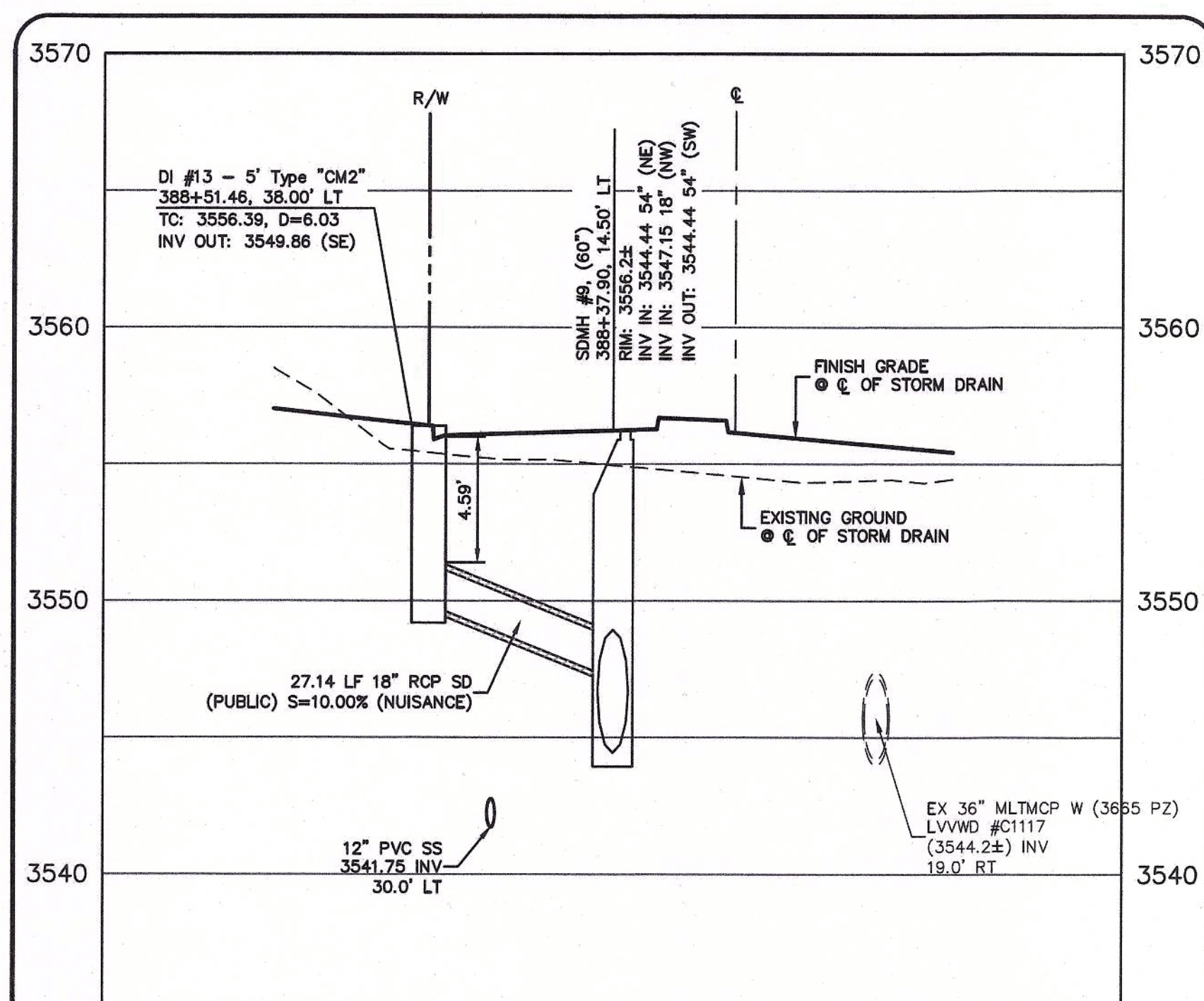


REV	DATE	DESCRIPTION
1	11/28/18	ADDED WATER LATERAL, REVISED SD LATERAL LOCATION & CONNECTED TO DB OUTFALL, REVISED CHANNEL GRADING, AND ADDED NEW SHEET 26A, UPDZED SDI #4

PROJECT NO.	620238-240
DESIGN	LG/MB
DRAWN	LG/MB
CHECK	JLJ
PLOT DATE	01-29-19
PLOT TIME	11:33:57

GCVI 1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
ENGINEERS & SURVEYORS
gcvengineering.com

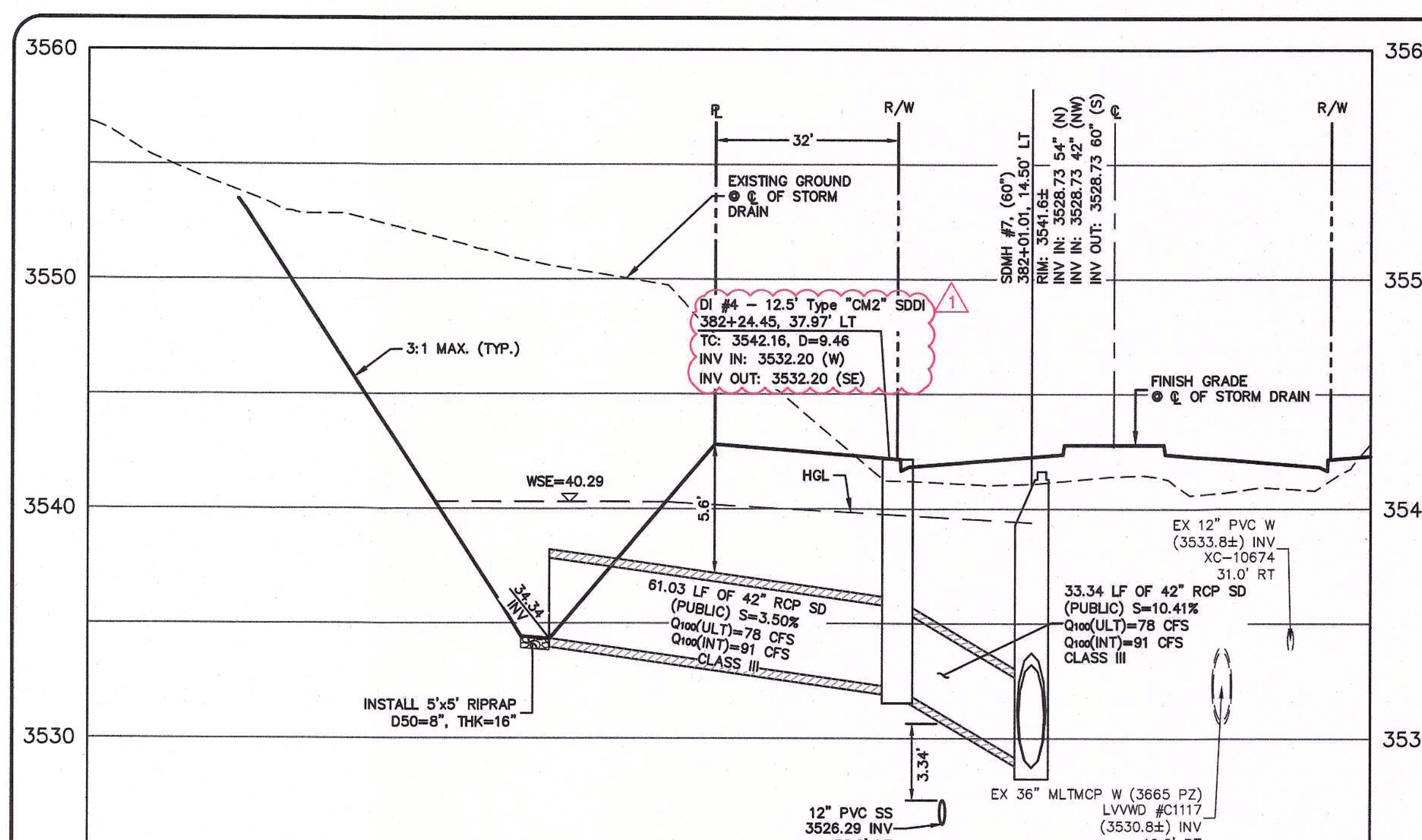
THE HOWARD HUGHES COMPANY, LLC
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE
LATERAL PROFILES 2



**SKY VISTA DRIVE
STORM DRAIN PROFILE @ 388+37.90**

SCALE: HORIZ. 1"=20', VERT. 1"=5'
SEE DRAWING 20

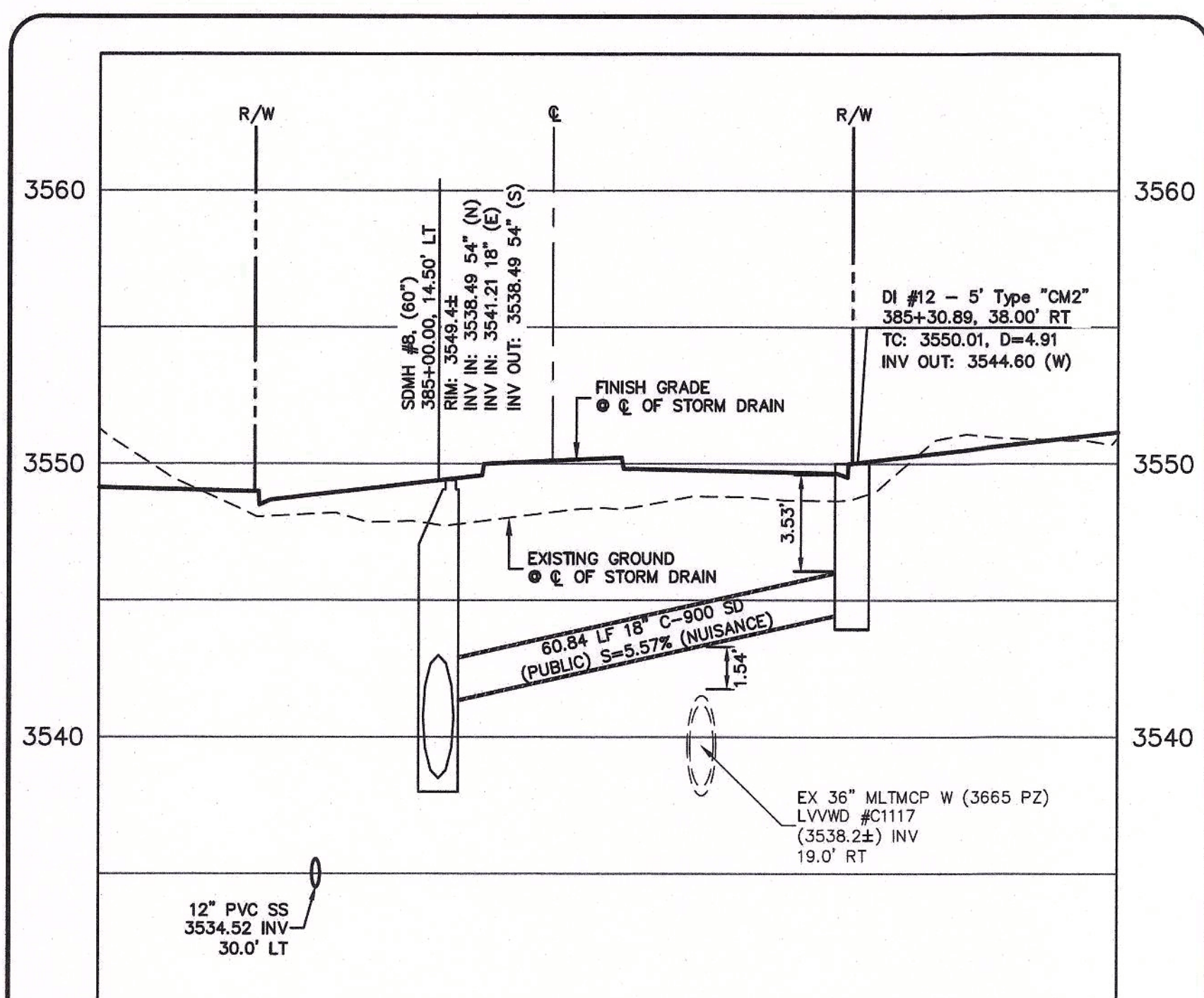
4
—



**SKY VISTA DRIVE
STORM DRAIN PROFILE @ 382+24.45**

SCALE: HORIZ. 1"=20', VERT. 1"=5'
SEE DRAWING 18

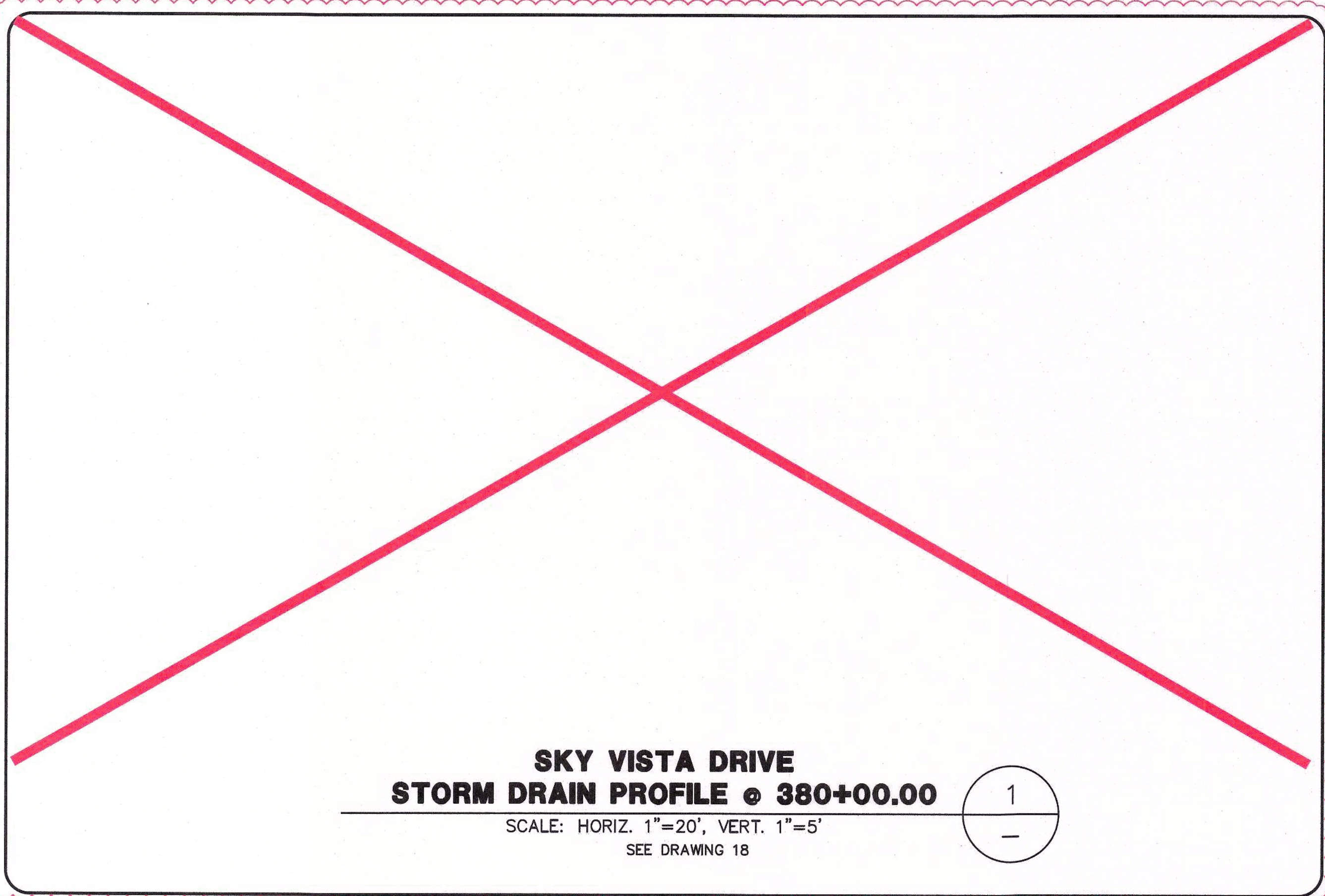
2
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**SKY VISTA DRIVE
STORM DRAIN PROFILE @ 385+00.00**

SCALE: HORIZ. 1"=20', VERT. 1"=5'
SEE DRAWING 19

3
—



**SKY VISTA DRIVE
STORM DRAIN PROFILE @ 380+00.00**

SCALE: HORIZ. 1"=20', VERT. 1"=5'
SEE DRAWING 18

1
—

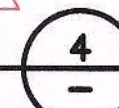
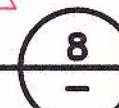
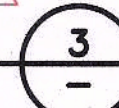
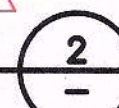
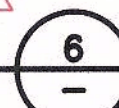
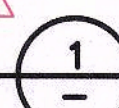
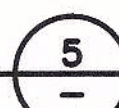
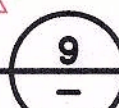
NOTE
IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET, FROM THE TOP OF THE LVVWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER, I.E. JERSEY RAIL TO IDENTIFY AND PROTECT THE "NO EQUIPMENT ZONE".

DROP INLET NOTE:
ALL STORM DRAIN DROP INLETS ARE TO BE CONSTRUCTED PER THE REQUIREMENTS OF USDOCA DWG. NO. 421 (STORMWATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL).

OFF-SITE FLOOD CONTROL NOTE:
ALL OFF-SITE INTERIM FLOOD CONTROL FACILITIES SUCH AS, BUT NOT LIMITED TO, BERMS/DITCHES AND TEMPORARY SUMPS ARE PRIVATELY OWNED AND ARE TO BE PRIVATELY MAINTAINED BY THE HOWARD HUGHES COMPANY.

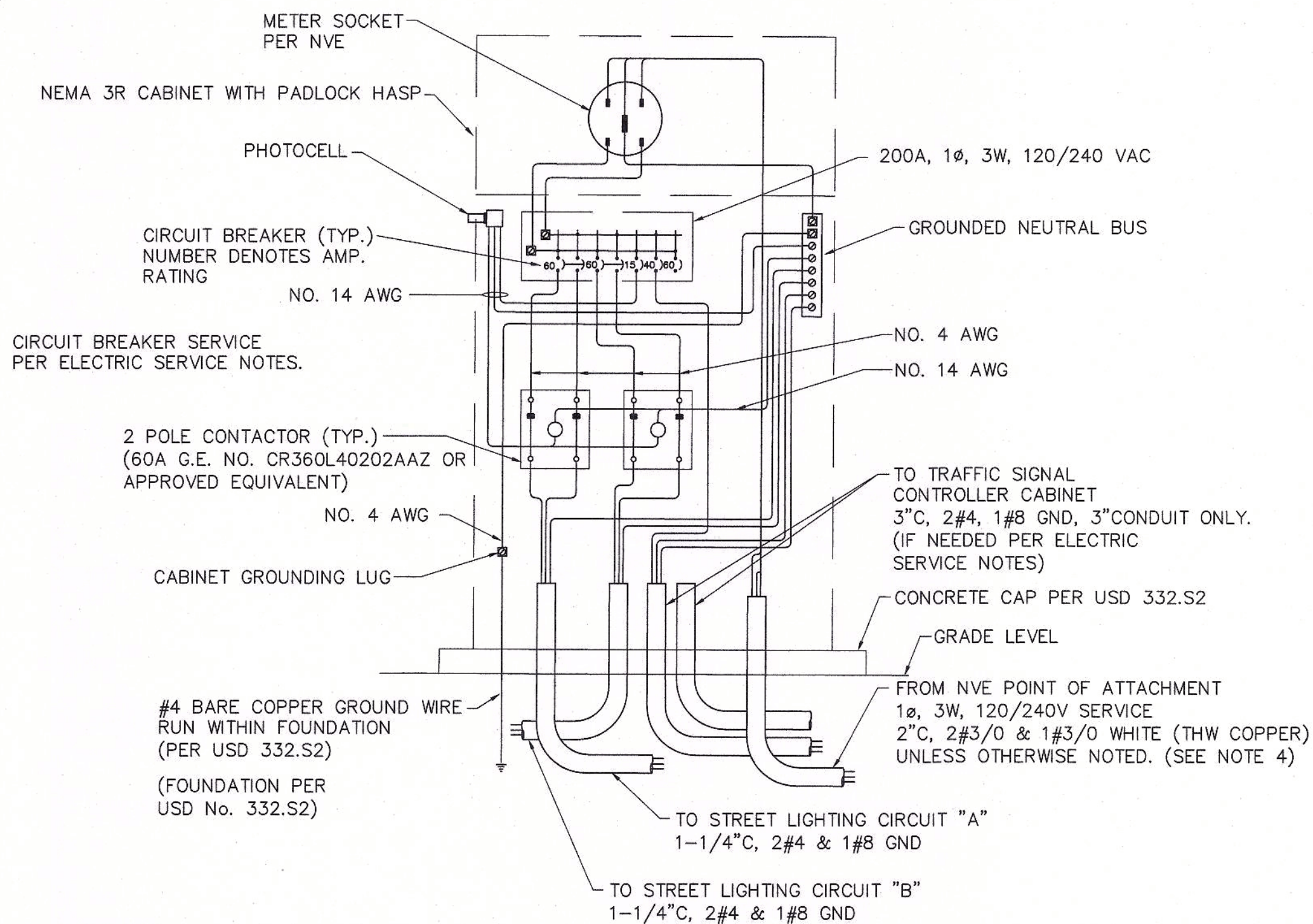
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 128398 FIRST APPROVED DATE: 10/22/18



SERVICE PEDESTAL CIRCUIT CAPACITY VERIFICATION:

CIRCUIT NAME	SVD1(A)	SVD1(B)	SVD1(C)	SVD2(A)	SVD2(B)	SVD2(C)	FHA1(A)	FHA1(B)	FHA1(C)	FHA1(D)	FHA1(E)	
CIRCUIT TYPE	STREET LIGHTING (PROPOSED)	STREET LIGHTING (PROPOSED)	PHOTOCELL CONTROL (PROPOSED)	STREET LIGHTING (PROPOSED)	STREET LIGHTING (PROPOSED)	PHOTOCELL CONTROL (PROPOSED)	STREET LIGHTING (FUTURE)	STREET LIGHTING (FUTURE)	INTERSECTION LIGHTING (PROPOSED)	INTERSECTION SIGNAL CONTROL (FUTURE)	PHOTOCELL CONTROL (PROPOSED)	
VOLTAGE:	240	240	120	240	240	120	240	240	120	120	120	
CIRCUIT CAPACITY:	60	60	15	60	60	15	60	60	40	60	15	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48	48	12	48	48	12	48	48	32	48	12	
EXISTING CIRCUIT LOAD AMPS =	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PROPOSED LOAD TO CIRCUIT:	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	
	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS
253 WATT LED SINGLE STREET LIGHT AT 240V = 1.1 AMPS	4	4.22	0	0.00	0	0.00	1	1.05	3	3.16	0	0.00
253 WATT LED TWIN STREET LIGHT AT 240V = 2.11 AMPS	9	18.98	7	14.76	0	0.00	7	14.76	6	12.65	0	0.00
253 WATT LED INTERSECTION LIGHT AT 120V = 2.11 AMPS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
4800 WATT SIGNAL CONTROL AT 120V = 40.00 AMPS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
120 WATT PHOTO CELL AT 120V = 1.00 AMPS	0	0.00	0	0.00	1	1.00	0	0.00	1	1.00	0	0.00
TOTAL PROPOSED LOAD AMPS =	23.19	14.76	1.00	15.81	15.81	1.00	0.00	0.00	15.87	0.00	1.00	
EXISTING PLUS PROPOSED LOAD AMPS =	23.19	14.76	1.00	15.81	15.81	1.00	0.00	0.00	15.87	0.00	1.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED	24.81	33.24	11.00	32.19	32.19	11.00	48.00	48.00	15.13	48.00	11.00	

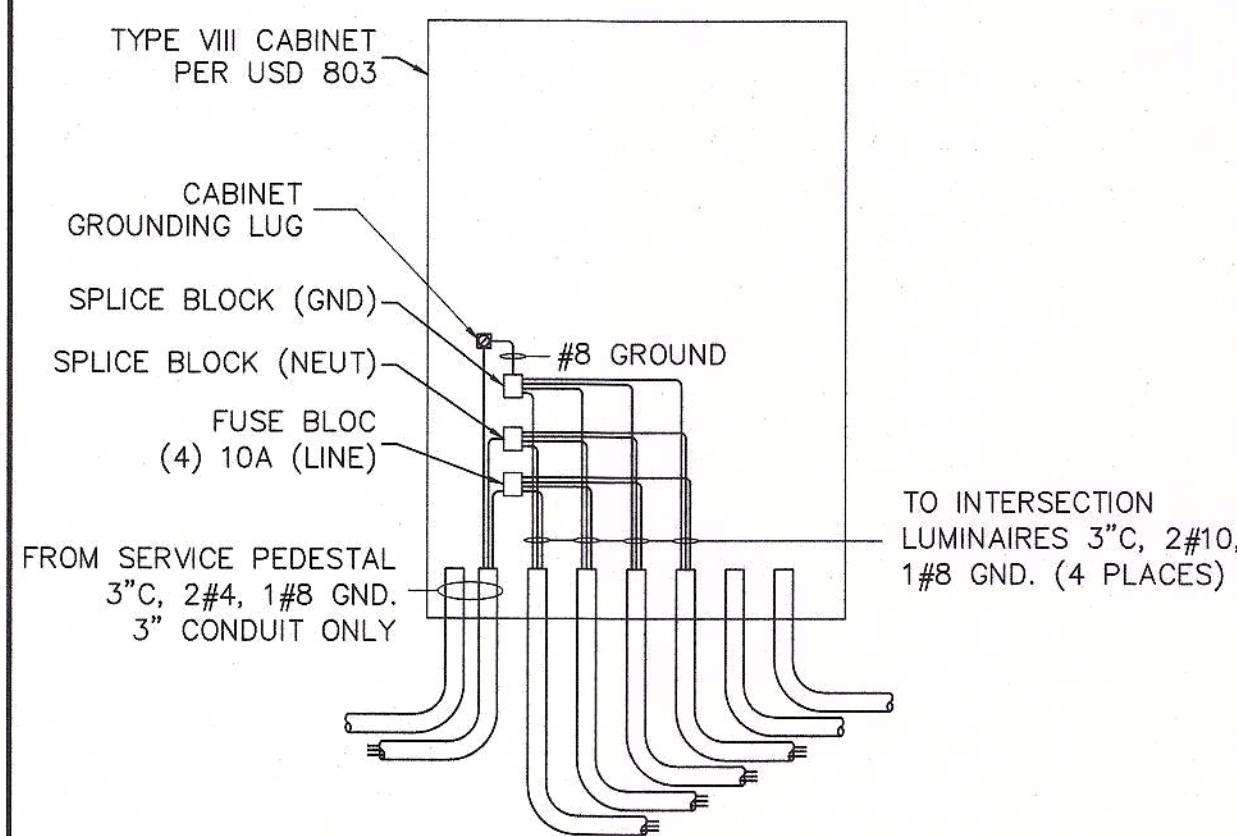


NOTES:

- MANUFACTURER'S CATALOG NUMBERS ARE SHOWN TO ESTABLISH A DEGREE OF QUALITY AND PERFORMANCE, APPROVED AS EQUIVALENT ARE ACCEPTABLE.
- ALL CONDUCTORS AND BUSSING TO BE COPPER.
- INSTALL PER CLARK COUNTY AREA, UNIFORM STANDARD DRAWING NUMBER 730, 331, 332.S2, 335.S2.
- TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER.
- ALL CONDUCTOR SHALL BE STRANDED 600V THW INSULATED COPPER.

ICLV1 200A PAD MOUNTED SERVICE POINT
FOR TRAFFIC SIGNAL AND STREET LIGHTING
NOT TO SCALE

1
43



NOTES:

- ALL CONDUCTORS SHALL BE STRANDED 600V, 194 DEG. F., THW-2 OR XHHW-2 INSULATED COPPER.

TYPE VIII CABINET FOR INTERSECTION LIGHTING
NOT TO SCALE

2
43

ELECTRICAL NOTES

- ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT), SCHEDULE 40 PVC AND SHALL BE INSTALLED PER USD 733. ABOVE GRADE CONDUIT SHALL BE TYPE RMC (RIGID METALLIC CONDUIT). CONDUIT RISERS SHALL BE TYPE RMC WITH PVC COATING OR TAPE WRAP.
- ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULLSTRING AND 1#8 FOR LOCATING PURPOSES.
- ALL CONDUCTORS SHALL BE STRANDED, 600-VOLT, TYPE THW-2 OR XHHW-2 INSULATED COPPER.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.

ELECTRICAL SERVICE NOTES:

FOR SERVICE POINTS SVD1, AND SVD2:

- 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM NV ENERGY POINT OF CONNECTION TO BE 2" C, 2#3/0 THW, 1#3/0 WHITE THW (COPPER). SERVICE PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER. THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
- 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS,
 - 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
 - 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.
- (2) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL

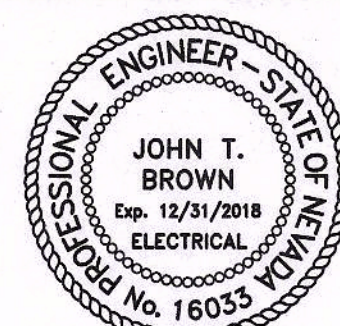
CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX

FOR SERVICE POINT FHA1,

- 40 AMP, 120V, 1-POLE CIRCUIT BREAKER
- 60 AMP, 120V, 1-POLE CIRCUIT BREAKER
- 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
- TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL,
- 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.

CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX AND (1) 2" EMPTY CONDUIT, (1) 3" EMPTY CONDUIT, (1) 3" CONDUIT WITH 2#4, 1#4GND TO TYPE VIII CABINET.

ALL SERVICE PEDESTALS SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 726, 760, 331, 332.S2 AND 335.S2.



DATE: _____

FOR ELECTRICAL COMPONENTS ONLY

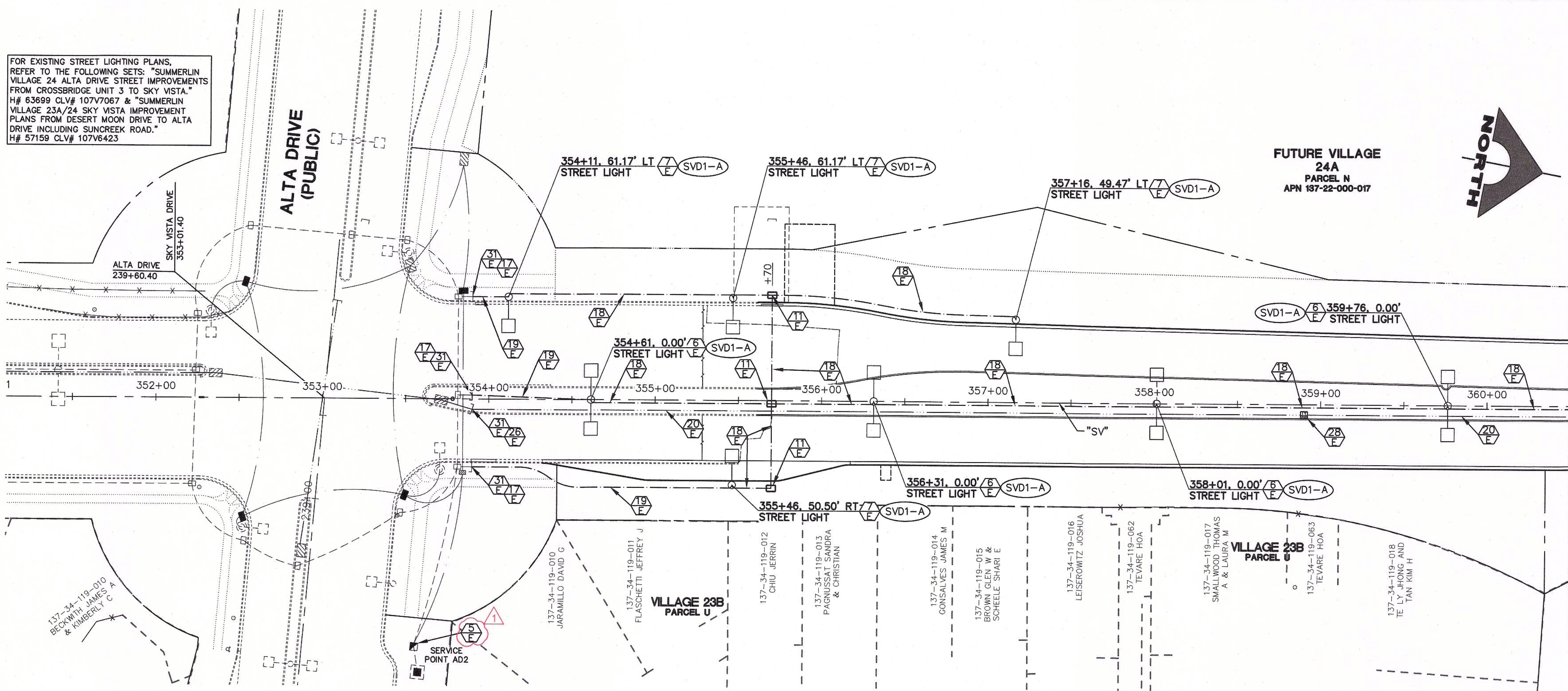


1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 238 SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE
STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 1

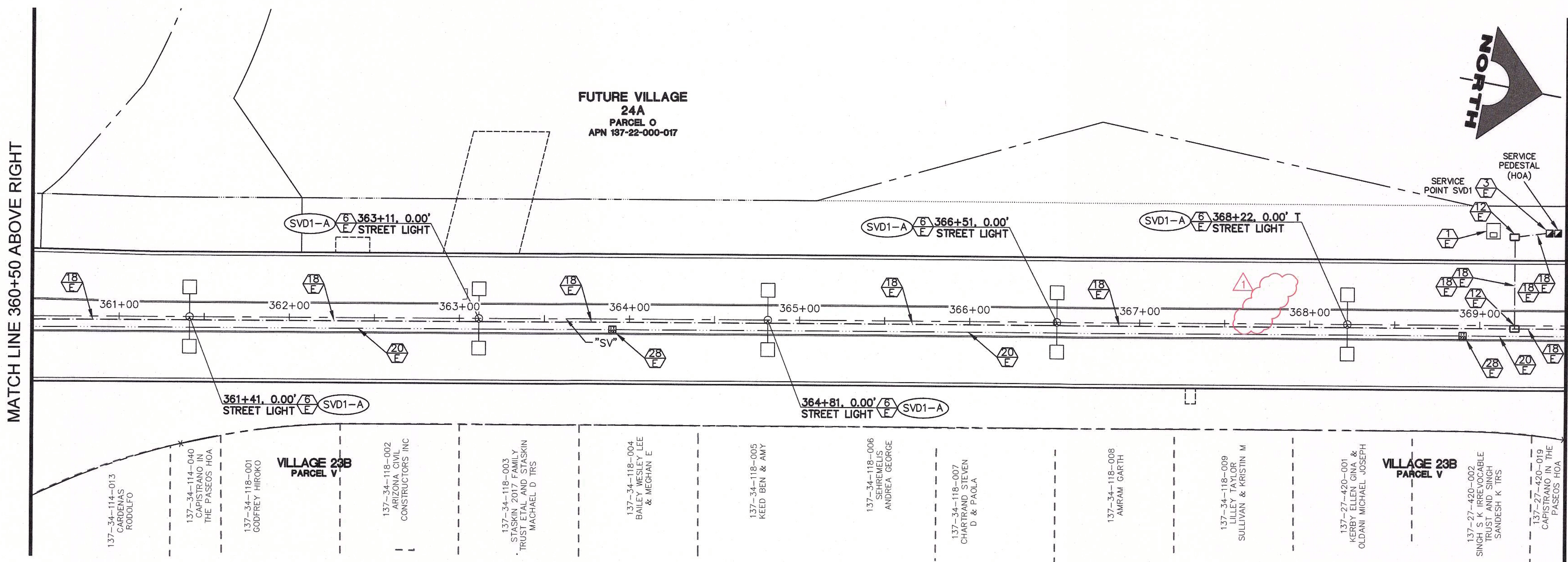
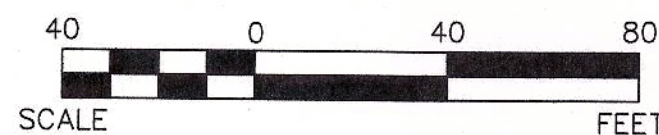
DRAWING
43 OF 46 SHTS

FOR EXISTING STREET LIGHTING PLANS,
REFER TO THE FOLLOWING SETS: "SUMMERLIN
VILLAGE 24 ALTA DRIVE STREET IMPROVEMENTS
FROM CROSSBRIDGE UNIT 3 TO SKY VISTA."
H# 63699 CLV# 107V7067 & "SUMMERLIN
VILLAGE 23A/24 SKY VISTA IMPROVEMENT
PLANS FROM DESERT MOON DRIVE TO ALTA
DRIVE INCLUDING SUNKREEZ ROAD."
H# 57159 CLV# 107V6423



SID #810 PROJECTS 8A, 8B, AND 8C
SKY VISTA DRIVE (PUBLIC)

SCALE: 1" = 40'

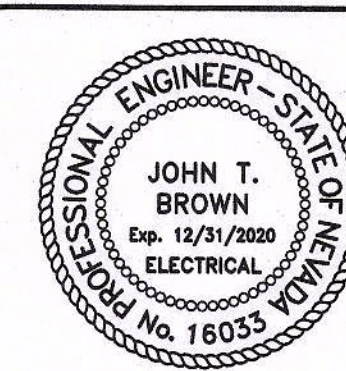
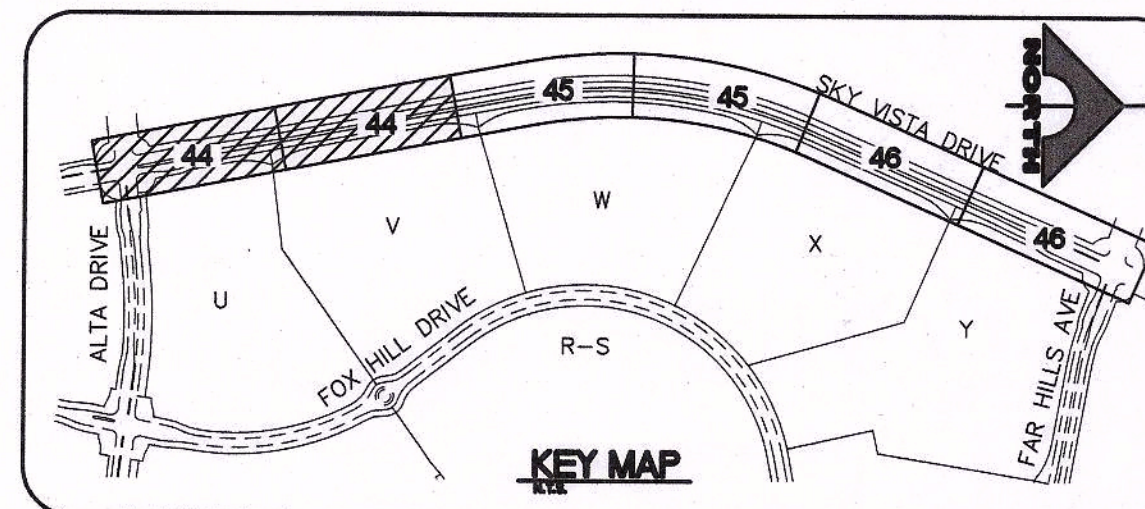


FOR ALL DRY UTILITY CROSSINGS

1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3' PARALLEL SEPARATION
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126398 FIRST APPROVED DATE:

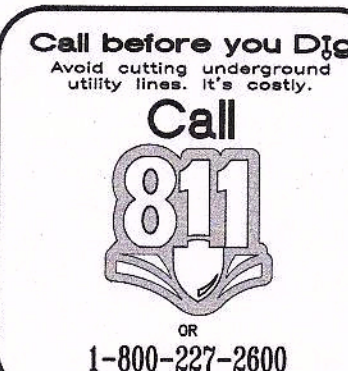


DATE: _____

**FOR ELECTRICAL
COMPONENTS ONLY**

ELECTRICAL CONSTRUCTION NOTES:

- 1 PROPOSED NV ENERGY TRANSFORMER.
- 2 FHAI: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
- 3 SVD1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
- 4 SVD2: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
- 5 AD2: EXISTING SERVICE PEDESTAL.
- 6 SUMMERLIN TYPE 2 LED TWIN STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS
(NEW CONSTRUCTION) DRAWING NC-11.
- 7 SUMMERLIN TYPE 2 SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING
ANALYSIS (NEW CONSTRUCTION) DRAWING NC-11.
- 8 SUMMERLIN TYPE 1 LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW
CONSTRUCTION), WITH PROVISION FOR FUTURE TRAFFIC SIGNAL DUAL MAST ARM.
- 9 NOT USED
- 10 NOT USED
- 11 PROPOSED NO. 3-1/2 PULLBOX PER USD 705.
- 12 PROPOSED NO. 5 PULLBOX PER USD 706.
- 13 PROPOSED NO. 7 PULLBOX PER USD 707.
- 14 NOT USED
- 15 NOT USED
- 16 NOT USED
- 17 EXISTING 1-1/4" CONDUIT ONLY.
- 18 PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING CONDUIT].
- 19 PROPOSED 1-1/4" CONDUIT W/ PULLSTRING.
- 20 PROPOSED 4" CONDUIT W/PULLSTRING [FUTURE TRAFFIC SIGNAL INTERCONNECT
WITH 2' RADIUS BENDS].
- 21 PROPOSED 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
AND 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL].
- 22 PROPOSED 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL CONTROLLER].
- 23 PROPOSED 5-3" CONDUITS [FOUR FOR INTERSECTION LUMINAIRES AND FUTURE
TRAFFIC SIGNAL (ONE EACH) AND ONE FOR FUTURE LOOPS].
- 24 PROPOSED 3" CONDUIT W/PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE
TRAFFIC SIGNAL].
- 25 PROPOSED 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES
AND FUTURE TRAFFIC SIGNAL].
- 26 EXISTING 4" CONDUIT ONLY.
- 27 PROPOSED 2-3" CONDUITS [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC
SIGNAL CONTROLLER] INSTALL 2#4, 1#8 GND IN (1) OF (2) 3" CONDUITS.
- 28 PROPOSED TYPE 200 PULLBOX [FUTURE TRAFFIC SIGNAL INTERCONNECT] PER USD
762.
- 29 PROPOSED 2" CONDUIT W/ PULLSTRING.
- 30 STUB AND CAP 5' PAST CONSTRUCTION LIMIT.
- 31 CONNECT TO EXISTING CONDUIT STUB OR PULL BOX.
- 32 PROPOSED TYPE III SIGNAL CABINET PER USD 803.
- 33 PROTECT IN PLACE EXISTING FIBER OPTIC PULLBOX.



THE HOWARD HUGHES COMPANY, LLC

VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE

STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 2

DRAWING

44

44 OF 46 SHTS

CLV# 107V7418 L18-01503

MATCH LINE 369+50 SEE SHEET 44

MATCH LINE 378+50 SEE ABOVE RIGHT

MATCH LINE 378+50 SEE BELOW LEFT

MATCH LINE 387+50 SEE SHEET 46

FUTURE VILLAGE
24A
PARCEL O
APN 137-22-000-017

VILLAGE 23B
PARCEL V
137-27-420-003
SYKES WILLIAM

VILLAGE 23B
PARCEL W
137-27-414-003
SANTORO FAMILY
REVOCABLE LIVING TRUST

SID #810 PROJECTS 8A, 8B, AND 8C
SKY VISTA DRIVE (PUBLIC)

SCALE: 1" = 40'

40 0 40 80
SCALE FEET

FUTURE VILLAGE
29
PARCEL BW36
APN 137-22-000-017

FUTURE VILLAGE
24A
PARCEL O
APN 137-22-000-017

VILLAGE 23B
PARCEL W

VILLAGE 23B
PARCEL W

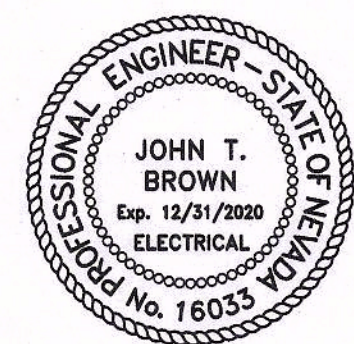
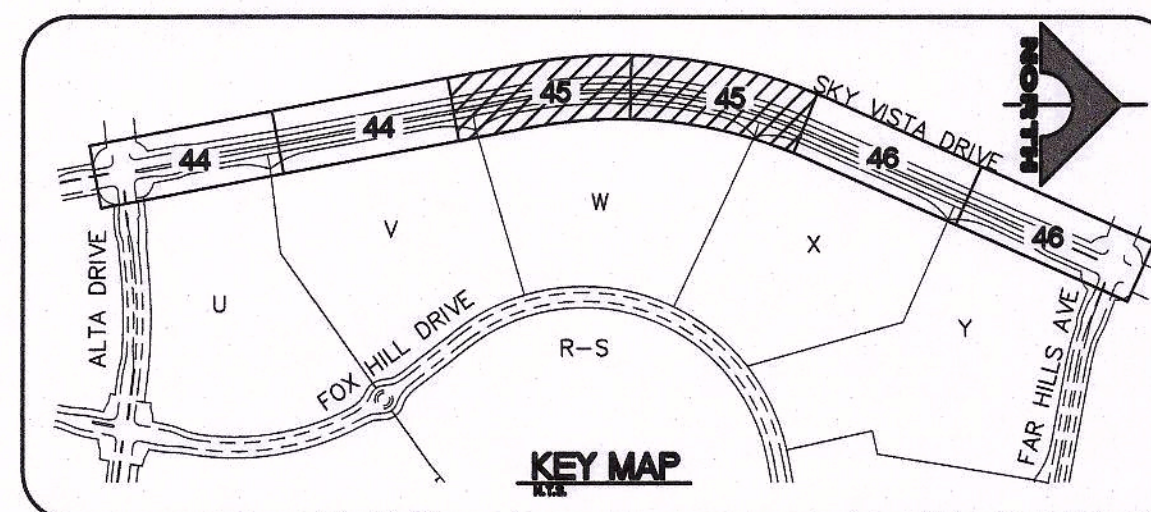
VILLAGE 23B
PARCEL X

FOR ALL DRY UTILITY CROSSINGS

1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3" PARALLEL SEPARATION
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126398 FIRST APPROVED DATE: _____



FOR ELECTRICAL
COMPONENTS ONLY

ELECTRICAL CONSTRUCTION NOTES:

- PROPOSED NV ENERGY TRANSFORMER.
- FHA1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
- SVD1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
- SVD2: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
- AD2: EXISTING SERVICE PEDESTAL
- SUMMERLIN TYPE 2 LED TWIN STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW CONSTRUCTION) DRAWING NC-11.
- SUMMERLIN TYPE 2 SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW CONSTRUCTION) DRAWING NC-11.
- SUMMERLIN TYPE 1 LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW CONSTRUCTION), WITH PROVISION FOR FUTURE TRAFFIC SIGNAL DUAL MAST ARM.
- NOT USED
- NOT USED
- PROPOSED NO. 3-1/2 PULLBOX PER USD 705.
- PROPOSED NO. 5 PULLBOX PER USD 706.
- PROPOSED NO. 7 PULLBOX PER USD 707.
- NOT USED
- NOT USED
- NOT USED
- EXISTING 1-1/4" CONDUIT ONLY.
- PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING CONDUIT].
- PROPOSED 1-1/4" CONDUIT W/ PULLSTRING.
- PROPOSED 4" CONDUIT W/PULLSTRING [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2" RADIUS BENDS].
- PROPOSED 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY. [FUTURE TRAFFIC SIGNAL].
- PROPOSED 2" CONDUIT ONLY. [FUTURE TRAFFIC SIGNAL CONTROLLER].
- PROPOSED 5-3" CONDUIT [FOUR FOR INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL (ONE EACH) AND ONE FOR FUTURE LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
- PROPOSED 3" CONDUIT W/PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
- PROPOSED 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
- EXISTING 4" CONDUIT ONLY.
- PROPOSED 2-3" CONDUITS [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL CONTROLLER] INSTALL 2#4, 1#8 GND IN (1) OF (2) 3" CONDUITS.
- PROPOSED TYPE 200 PULLBOX [FUTURE TRAFFIC SIGNAL INTERCONNECT] PER USD 762.
- PROPOSED 2" CONDUIT W/ PULLSTRING.
- STUB AND CAP 5' PAST CONSTRUCTION LIMIT.
- CONNECT TO EXISTING CONDUIT STUB OR PULL BOX.
- PROPOSED TYPE VII SIGNAL CABINET PER USD 803.
- PROTECT IN PLACE EXISTING FIBER OPTIC PULLBOX.



PROJECT NO.
62023B-240

DESIGN: LG/MB
DRAWN: LG/MB
CHECK: JJJ

PLOT DATE: 01-29-19
PLOT TIME: 10:47:27

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gownengineering.com

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE

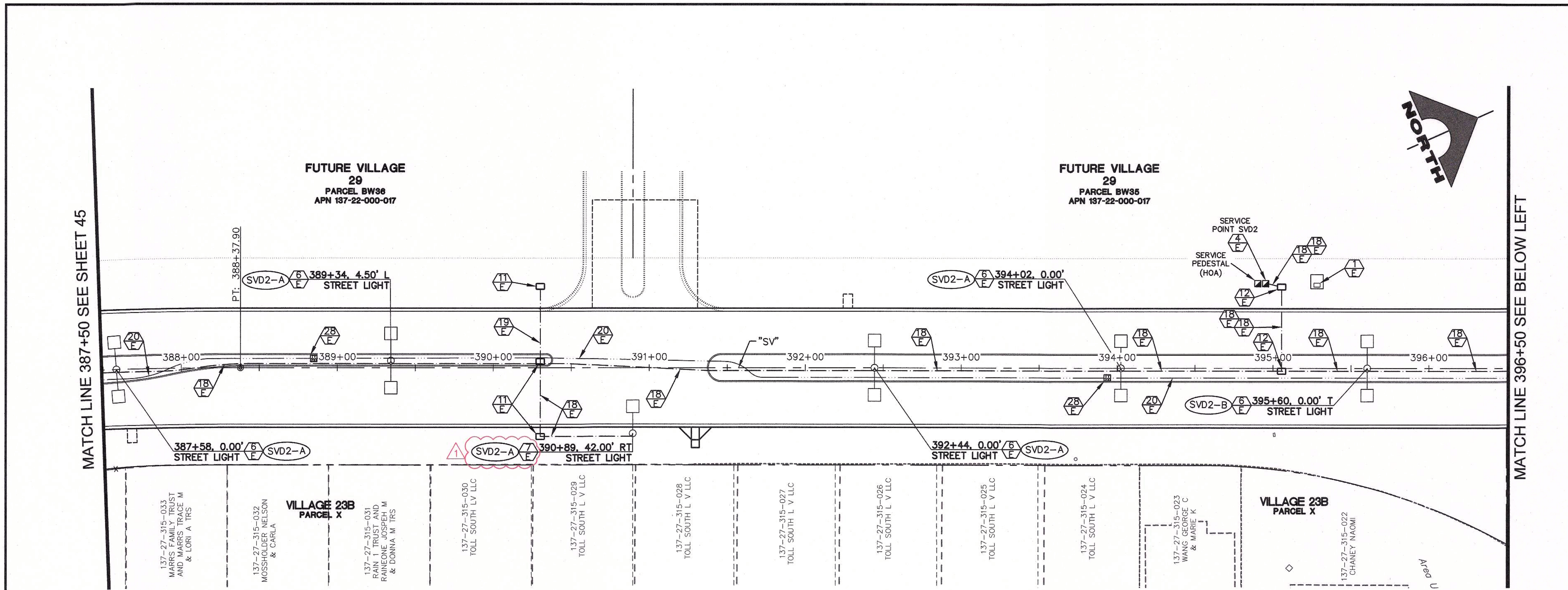
STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 3

DRAWING

45

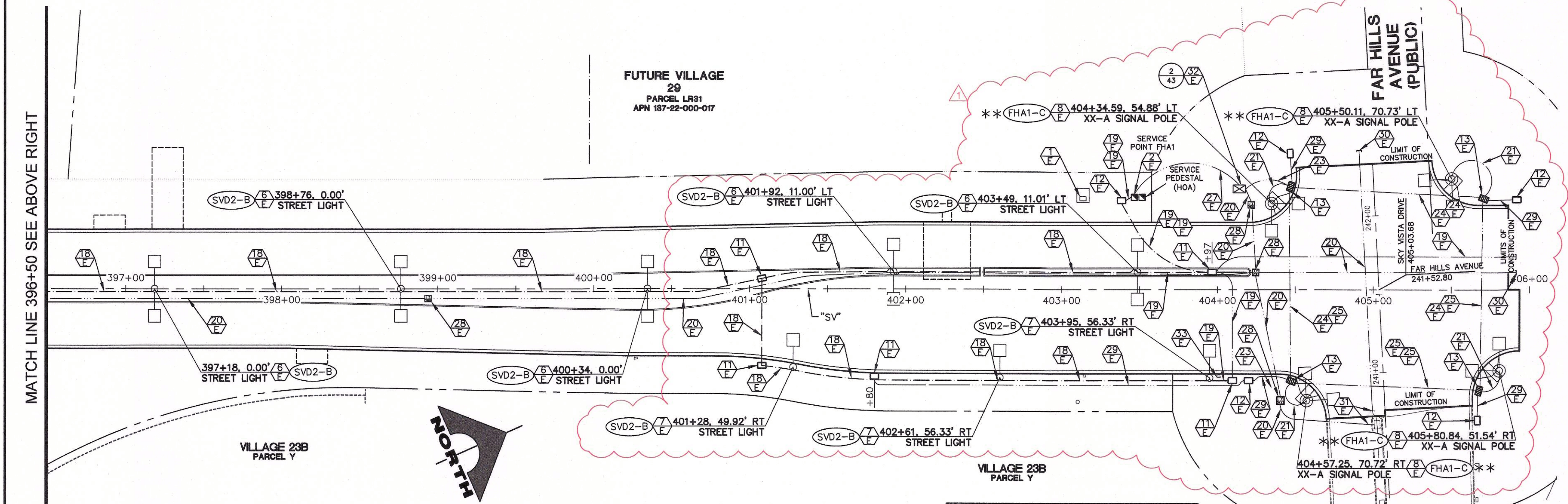
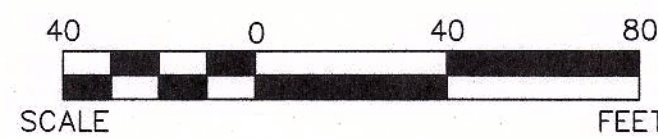
CLV# 107V7418 L18-01503

45 OF 46 SHTS



SID #810 PROJECTS 8A, 8B, AND 8C
SKY VISTA DRIVE (PUBLIC)

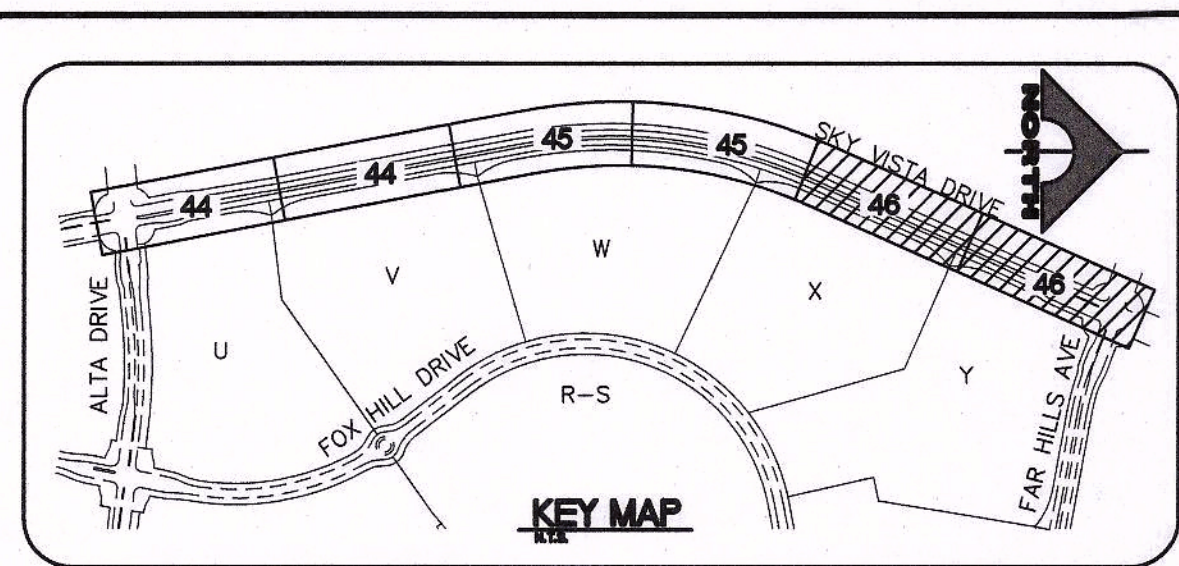
SCALE: 1" = 40'



NOTE:
CONTRACTOR TO ENSURE FOUNDATION CAP TO BE FLUSH WITH SIDEWALK AND COMPLIANT WITH PROWAG FOR PEDESTRIAN PUSH BUTTON REACH WITH 4' CLEARANCE.

FOR ALL DRY UTILITY CROSSINGS
1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3" PARALLEL SEPARATION.
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126398 FIRST APPROVED DATE: _____



PROFESSIONAL ENGINEER - STATE OF NEVADA
JOHN T. BROWN
Exp. 12/31/2026
ELECTRICAL
No. 16035
DATE: _____
FOR ELECTRICAL COMPONENTS ONLY

- ELECTRICAL CONSTRUCTION NOTES:**
- PROPOSED NV ENERGY TRANSFORMER.
 - FHA1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
 - SVD1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
 - SVD2: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES.
 - AD2: EXISTING SERVICE PEDESTAL.
 - SUMMERLIN TYPE 2 LED TWIN STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW CONSTRUCTION) DRAWING NC-11.
 - SUMMERLIN TYPE 2 SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW CONSTRUCTION) DRAWING NC-11.
 - SUMMERLIN TYPE 1 LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS (NEW CONSTRUCTION), WITH PROVISION FOR FUTURE TRAFFIC SIGNAL DUAL MAST ARM.
 - NOT USED
 - NOT USED
 - PROPOSED NO. 3-1/2 PULLBOX PER USD 705.
 - PROPOSED NO. 5 PULLBOX PER USD 706.
 - PROPOSED NO. 7 PULLBOX PER USD 707.
 - NOT USED
 - NOT USED
 - NOT USED
 - EXISTING 1-1/4" CONDUIT ONLY.
 - PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING CONDUIT].
 - PROPOSED 1-1/4" CONDUIT W/ PULLSTRING.
 - PROPOSED 4" CONDUIT W/PULLSTRING [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2' RADIUS BENDS].
 - PROPOSED 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY. [FUTURE TRAFFIC SIGNAL].
 - PROPOSED 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL CONTROLLER].
 - PROPOSED 6-3" CONDUIT [FOUR FOR INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL (ONE EACH) AND ONE FOR FUTURE LOOPS].
 - PROPOSED 3" CONDUIT W/PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
 - PROPOSED 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
 - EXISTING 4" CONDUIT ONLY.
 - PROPOSED 2-3" CONDUITS [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL CONTROLLER] INSTALL 2#4, 1#8 GND IN (1) OF (2) 3" CONDUITS.
 - PROPOSED TYPE 200 PULLBOX [FUTURE TRAFFIC SIGNAL INTERCONNECT] PER USD 782.
 - PROPOSED 2" CONDUIT W/ PULLSTRING.
 - STUB AND CAP 5' PAST CONSTRUCTION LIMIT.
 - CONNECT TO EXISTING CONDUIT STUB OR PULL BOX.
 - PROPOSED TYPE VII SIGNAL CABINET PER USD 803.
 - PROTECT IN PLACE EXISTING FIBER OPTIC PULLBOX.

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THE HOWARD HUGHES COMPANY, LLC
VILLAGE 23B SKY VISTA DRIVE
ALTA DRIVE TO FAR HILLS AVENUE
STREETLIGHT, CONDUIT, AND ELECTRICAL PLAN 4

PROJECT NO. 62023B-240
DESIGN: LG/MB
DRAWN: LG/MB
CHECK: JJJ
PLOT DATE: 01-29-19
PLOT TIME: 10:47:45

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	12/17/18 REVISED STREETLIGHTING TO LED CONFIGURATION		

ENGINEER'S SURVEYORS
GCV
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com
F:\Projects\600\62023B-240\DWG\Production\240-R01M01.dwg
Alexander, Santiago

STATE OF NEVADA
MICHAEL FANG
Exp. 06/30/2026
ELECTRICAL
No. 16035
DATE: 1/29/19

DRAWING 46
46 OF 46 SHTS