

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO ASH CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
2. EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. (CALL BEFORE YOU DIG 800-227-2600)
3. CONSTRUCTION SURVEY:
GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE CONSECUTIVE POINTS MUST BE ON THE SAME GRADE. IF ONE OF SEVERAL UTILITIES IS USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED, IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISH WORK.
4. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF UTILITIES. UTILITIES SHALL BE REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CARE WORKING OVER OR NEAR ANY EXISTING GAS MAINS.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
6. FENCES, SIGNS, STRUCTURES, LIGHTS AND OTHER EXISTING IMPROVEMENTS WITHIN STREET R/W SHALL BE REMOVED WHERE SHOWN ON THE CONTRACT DRAWINGS, AND AS REQUIRED BY THE ENGINEER.
7. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING FENCES, SIGN SIGNS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BACKFILL AND FINAL GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH SECTION 608 OF THE "STANDARD SPECIFICATIONS".
10. ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS LISTED WITHIN THE PLAN SET WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.
11. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:
NV ENERGY
CENTURYLINK TELEPHONE - NEVADA
SUN WEST GAS CORPORATION
LAS VEGAS VALLEY WATER DISTRICT
PHONE 1-800-227-2600 OR 811
PHONE 1-800-227-2600 OR 811
PHONE 1-702-400-1789
PHONE 1-702-870-2011

1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREIN SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER. REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
3. ALL CONSTRUCTION SIGNING, BARRICADING AND PAVEMENT MARKINGS SHALL CONFORM TO THE REVISIONS OF THE CALIFORNIA HIGHWAY MANUAL, 1988 AND TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.
4. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS V SHEETING.
6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN, SIGNPOST OR SIGN TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.
7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND ADDRESS NUMBERS FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.
8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS, AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A123.
9. ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS, AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS CLASS "C" COUNTY AREA STANDARD. ALL STREET LIGHTING SHALL BE IDENTIFIED ON THE STREET LIGHTING PLANS AND LED LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES. QPL CAN BE FOUND ONLINE AT <http://www.clarkcountynv.gov/public-works/pages/default.aspx>.
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION AND A.S.T. INTERCONNECTIONS. CLARK COUNTY TRAFFIC CONTROL CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.
11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE APPROVED BY THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED IN EMERGENCY BY F.A.S.T., CITY OF LAS VEGAS, CLARK COUNTY AND NDOT AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. \$2,500 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
12. ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING. SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL-BOX AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE THE LED TYPE.

CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.

16. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPED" APPEARANCE.

17. TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION OR RELOCATION OF ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION OF THE DATE THAT WORK WILL BEGIN.

18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

TOTAL FOR OVERALL DEVELOPMENT: 5,882.51 CY CUT / 12,330.87 CY FILL / 6,448.35 CY NET FILL

NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSISTENCE.

BENCHMARK

RIVET AND

OF CENTER

ELEVATION

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE, (702) 455-4610, THE PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2) INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFFSITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST VERSION EXCEPT FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "OPL" FOR LED LUMINAIRES. OPL CAN BE FOUND ONLINE AT:
[HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX](http://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX).
6. PRIVATE STREETS, CURB AND GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATIONS OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
8. PROPER SIGNS, BARRIERS, BARRICADES, AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS OFF-SITE INSPECTOR @ 455-4610.
9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10) FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE SHALL BE NOTED ON THE PLAN. IF NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER, THEN TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24, CURRENT EDITION.

B. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.

C. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE FIRE PREVENTION BUREAU PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.

D. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.

E. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY/ POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.

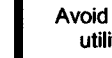
F. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 35,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES EXCEPT TEMPORARY ACCESS ROADS SERVING ONLY BUILDING UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 503.2.3 OF THE CLARK COUNTY FIRE CODE.

G. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.

H. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TURNS.

I. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED [SECTION C107 OF THE CLARK COUNTY FIRE CODE, AS AMENDED].

J. HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION ON PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE PREVENTION BUREAU.

<i>FAST</i>  Call before you Underground 1-702-432-5300 PRIGMORE & ANTELMI, SYSTEMS OF TRANSPORTATION	Avoid overhead power line contact. It's costly. Call before you Overhead 1-702-227-2929	Call before you Dig Avoid cutting underground utility lines. It's costly. CALL  OR 1-800-227-2600
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BEING A PART OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4)
OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA.

NORTH 89°45'44" WEST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN BOOK 152 PAGE 04 OF PLATS

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST
OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-8617

PAVING AND GRADING	PUBLIC	PRIVATE
7" ASPHALT	650 SY	0 SY
5.5" ASPHALT	208 SY	0 SY
TYPE II	97 CY	0 CY
1504' F	1504 LF	0 LF
WATER	PUBLIC	PRIVATE
6" POT WATER	1,023 LF	0 LF
45" HORIZONTAL WATER BEND	2 EA	0 EA
6" WATER TEE	1 EA	0 EA
CAP AND 2" BLOW-UP ASSEMBLY	1 EA	0 EA
TRAFFIC	PUBLIC	PRIVATE
PAVEMENT STRIPING	128 LF	0 LF

AC	ASPHALTIC CONCRETE	FG	FINISH GRADE	R	RADIUS
AVE	AVENUE	FH	FIRE HYDRANT	RCB	REINFORCED CONCRETE BOX
BC	BACK OF CURB	FL	FLOW LINE	RCP	REINFORCED CONCRETE PIPE
BCR	BACK OF CURB RADIUS	FT	FEET	ROW	RIGHT-OF-WAY
BE	BASE FLOOD ELEVATION	GS	GRADING	RT	RIGHT
BFB	BACK FLOW PREVENTOR	GB	GRADE BREAK	SD	STORM DRAIN
BLM	BUREAU OF LAND MANAGEMENT	GFF	GRADE FINISH FLOOR	SHT	SHEET
BM	BENCHMARK	HG	HIGH POINT	STLT	STREETLIGHT
BMFPM	BENCH MARKED FLOW POINT MARKER	HP	HIGH PRESSURE GAS	SVZ	SOUTHERN NEVADA WATER AUTHORITY
BV	BEGIN VERTICAL CURVE	INV	INVERT	SS	SANITARY SEWER
BW	BOTTOM OF EXISTING WALL	LF	LINEAR FEET	ST	STREET
CATV	CABLE TELEVISION	LANE	LANE	STA	STATION
CC	CLARK COUNTY	LS	LANDSCAPE	STD	STANDARD
CCFD	CLARK COUNTY FIRE DEPARTMENT	LT	LEFT	SVZ	SIGHT VISIBILITY ZONE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	LWB	LAS VEGAS VALLEY WATER DISTRICT	SW	SIDEWALK
CL	CENTERLINE	MAX	MAXIMUM	SY	SQUARE YARD
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MH	MANHOLE	TC	TOP OF CURB
CLV	CITY OF LAS VEGAS	MIN	MINIMUM	TELE	TELEPHONE
CM	CORRUGATED METAL PIPE	NUM	NUMBER	TO	TOP OF FINISHING
CNLV	CITY OF NORTH LAS VEGAS	NTS	NOT TO SCALE	T.O.P.	TOP OF PIPE
CO	CLEAN OUT, SEWER	OC	ON CENTER	TR	TOP OF RETAINING
COH	CITY OF HENDERSON	PB	PULL BOX	TOP	TOP OF WALL
CY	CUBIC YARD	PC	POINT OF CURVE	TYP	TYPICAL
DCSWS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS	PCC	POINT OF COMPOUND CURVE	UDCS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
DG	DESIGN GRADE	PI	POINT OF INTERSECTION	UTL	UTILITY
DI	DROP INLET	PL	PROPERTY LINE	UNF	UNIFORM STANDARD DRAWING
DIP	DUCTILE IRON PIPE	PLT	PLATE	VC	VERTICAL CURVE
DR	DRAIN	PCC	POINT OF CONNECTION	VTRFCD	VETRIFIED CLAY PIPE
EC	END OF CURVE	PP	POWER POLE	VG	VERTICAL GUTTER
EG	EXISTING GRADE	P&P	PLAN AND PROFILE	W	WATER
ELEC	ELECTRICAL	PRC	POINT OF REVERSE CURVE	ZC	ZERO LIP CURB
EP	EDGE OF PAVEMENT	PROJ	PROJECT		
ENC	END VERTICAL CURVE	PRV	PRESSURE REDUCING VALVE		
EX	EXISTING	PT	POINT OF TANGENCY		
FF	FINISH FLOOR ELEVATION	PVC	POLYVINYL CHLORIDE		

[illegible]

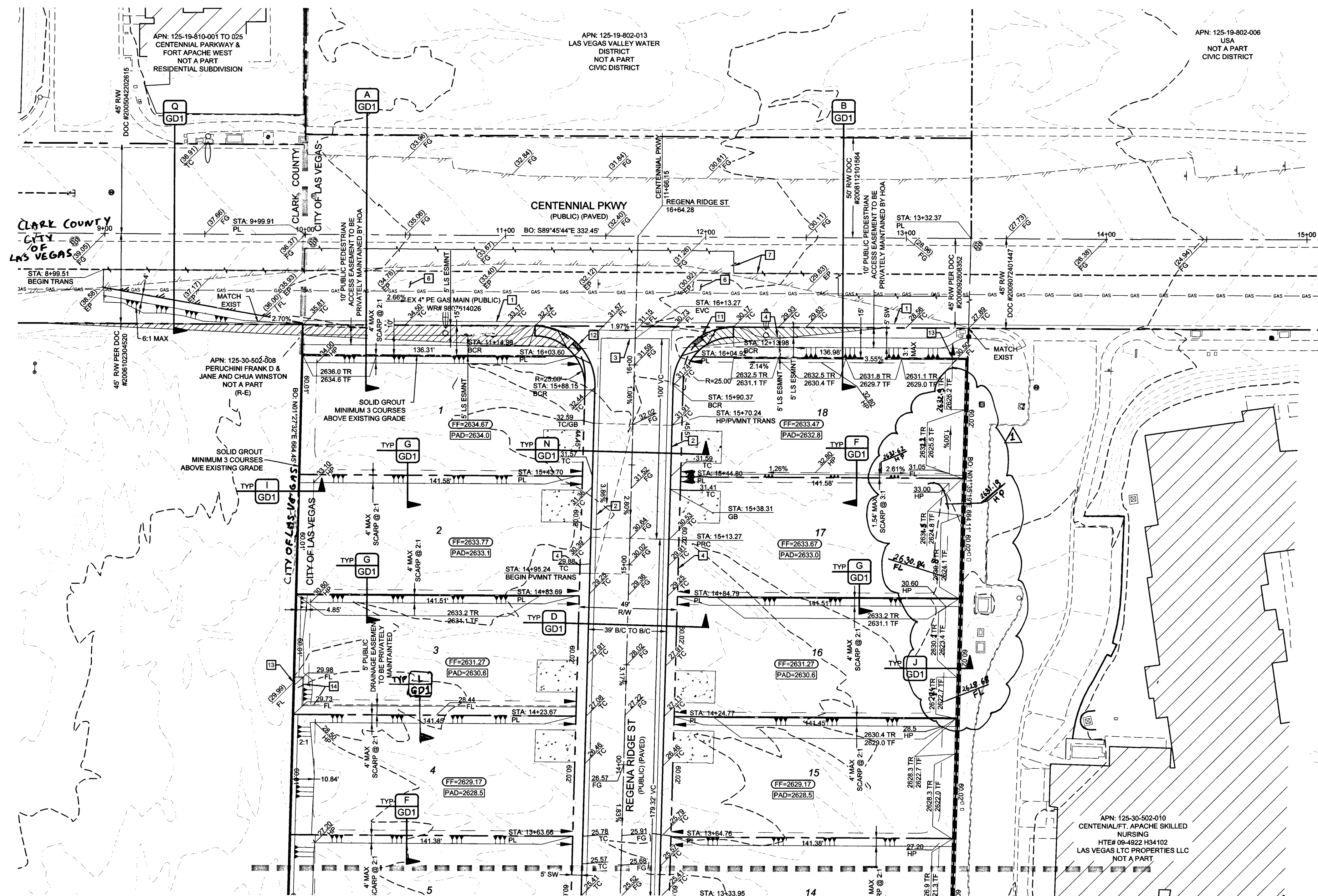
ADAVEN HOMES
3405 CLIFF HANGERS PKWY
LAS VEGAS, NV 89129
(702) 355-8588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89119
(702) 362-8994 FAX: (702) 362-9233



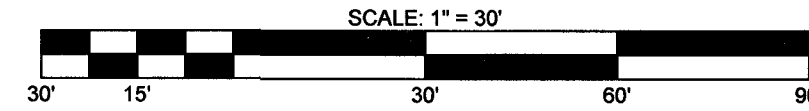
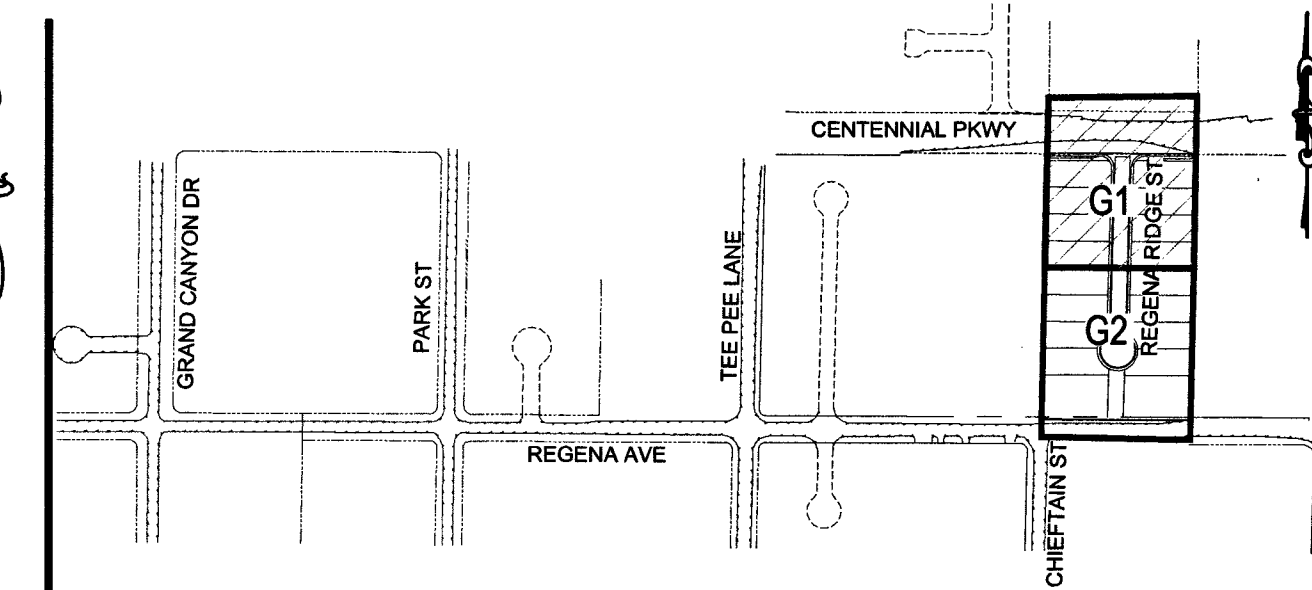
**CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
CC - GENERAL NOTES AND QUANTITIES**

DATE:		1/9/2019	
SCALE:		N/A	
JOB NO:		ADV-17-086	
DESIGNED BY:	BP	CHECKED BY:	SJT
SHEET NAME:		C3	
SHEET NUMBER:		03 OF 20	
—		PW18-18639	
107Y5089		L18-02344	



MATCHLINE SEE SHEET G2

KEY MAP



CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. INSTALL 30" MODIFIED ROLL CURB AND GUTTER (CCAUD #217.1)
3. 8" CROSS GUTTER (USD #228)
4. 5" SIDEWALK (USD #234)
5. 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (HTE XXXX)
6. 5.5" AC PAVEMENT OVER 6" TYPE II PER SOILS REPORT (HTE XXXX)
7. SAWCUT & MATCH EXISTING AC PAVEMENT (USD #500.3, 500.4, 500.5, & 503)
8. INSTALL CONCRETE VALLEY GUTTER (SEE E/GD1)
9. INSTALL SIDEWALK UNDERDRAIN (CCAUD #236)
10. L-CURB CUT AND GUTTER (SEE M/GD1)
11. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235 CASE 1) AND 5" B4.5
12. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235) A=8"
13. INSTALL 16" X 48" BLOCK WALL OPENING (SEE K/GD1)
14. INSTALL SIDEWALK (USD #234) WITH A-TYPE CURB (USD #219)
15. INSTALL REMOVABLE BOLLARD AT 4 O.C. (DCSWCS SD-38) DETAIL R/GD1

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 5,882.51 CY CUT / 12,330.87 CY FILL / 6,448.35 CY NET FILL
NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOOD ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FIRM PANEL 32003C1745E, REVISED SEPTEMBER 27, 2002.

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

GRADING NOTES

COMPLETION OF SECTION II OF DRAINAGE COMPLIANCE REPORT REQUIRED.
ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.
ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).
ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SE5
ELEVATION (FEET): 2616.96 (798.258 METERS)

GRADING CERTIFICATION - CLV, CC

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS4994, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.
I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, PW18-17755, ON FILE WITH CLARK COUNTY FOR THIS PROJECT.

S. JUSTIN THORNE, PE
DATE: 1/9/19

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE: _____

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

ACCEPTANCE OF PLANS
S. JUSTIN THORNE, PE
DATE: 1-10-19

ACCEPTANCE OF PLANS FOR FILING
BY: _____ DATE: _____

DEVELOPMENT AND FLOOD CONTROL
BY: _____ DATE: _____

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services
PROJECT# 135691 FIRST APPROVED DATE: 1-10-19
LVMWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: N/A GPM

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 888-9617
REPORT NO: 1916-GE0
DATE: 03/02/18

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

Call before you Dig
Underground
1-800-227-2600

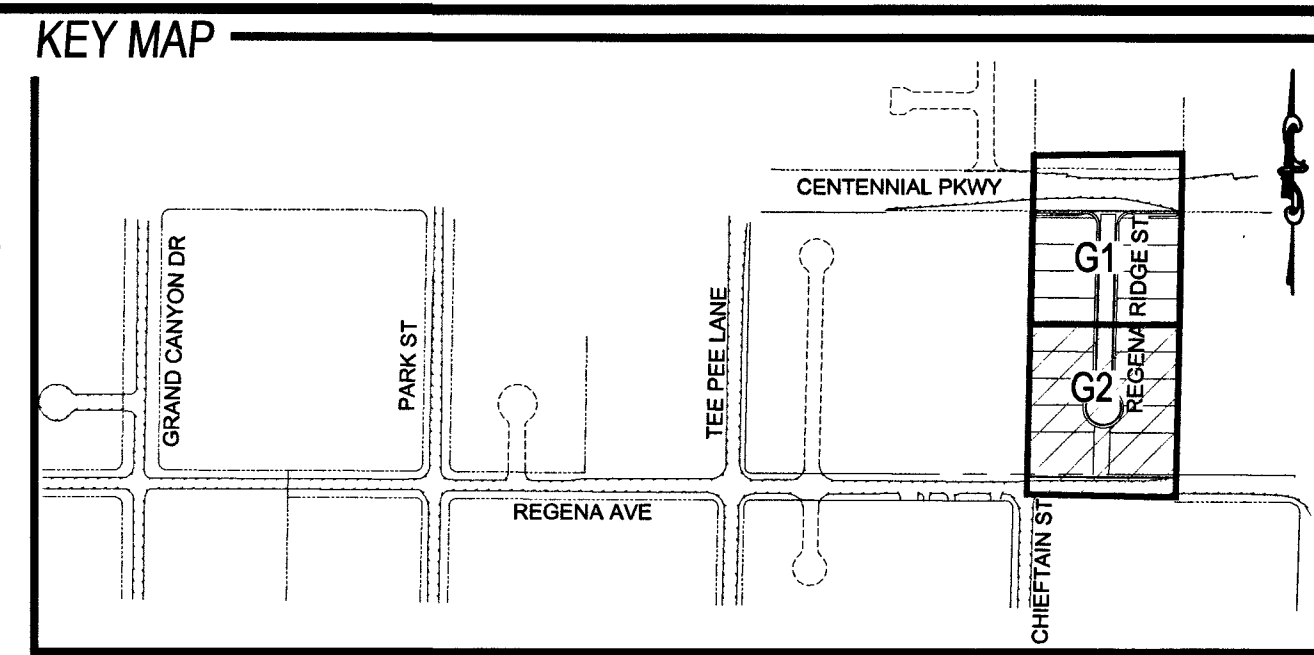
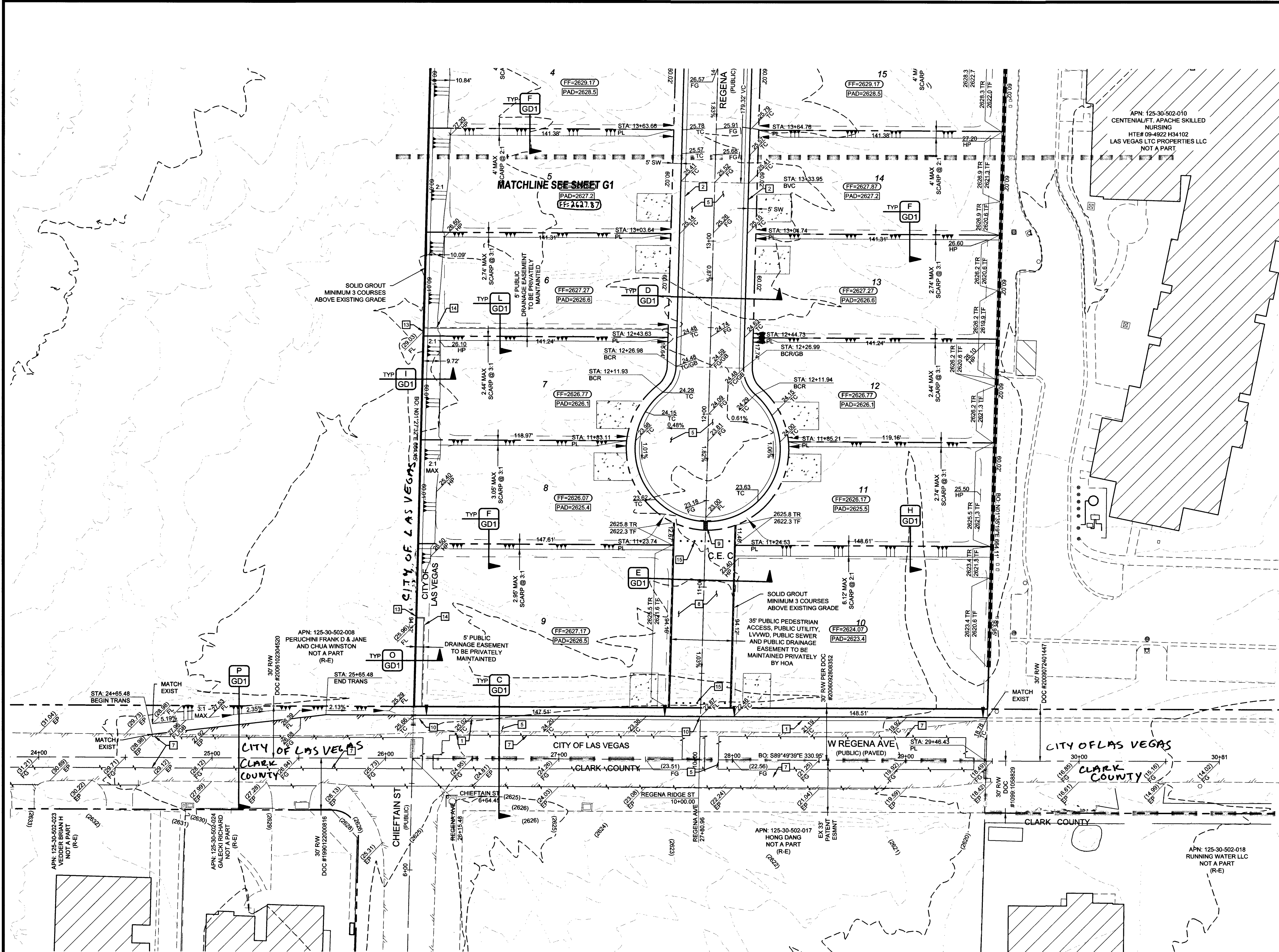
REVISIONS	NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
1	1	REVISION TO RETAINING TO KEEP RETAINING BELOW SST 5 FEET ABOVE NIM TO BE AT THE BIC. ADDED SNG SHEETS.				1/9/19

ADAVEN HOMES 3401 S. SHARON PKWY LAS VEGAS, NV 89129 (702) 365-8688 FAX:	TANEY ENGINEERING 6800 S. JONES BOULEVARD LAS VEGAS, NV 89118 (702) 362-8844 FAX: (702) 362-5233
---	---

CENTENNIAL & FORT APACHE A RESIDENTIAL SUBDIVISION	GRADING PLAN 1
---	----------------

DATE: 1/9/2019	SCALE: 1"=30'	JOB NO: ADV-17-086	DESIGNED BY: BP	CHECKED BY: SJT	SHEET NAME: G1	SHEET NUMBER: 04 OF 20
PROJECT: 135691A QS-125-30-NE						PW18-18639 L18-02344

FILE NAME: S:\ACTIVE\ADVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIN\PRODUCTION\DWG\SSHEET DWG\ADV17086_SHT_G.DWG



- ### CONSTRUCTION NOTES
- 24" L-TYPE CURB & GUTTER (USD #216)
 - INSTALL 30" MODIFIED ROLL CURB AND GUTTER (CCAUSS #217.1)
 - 8" CROSS GUTTER (USD #228)
 - 5" SIDEWALK (USD #234)
 - 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (HTE XXXX)
 - 5" AC PAVEMENT OVER 6" TYPE II PER SOILS REPORT (HTE XXXX)
 - SAWCUT & MATCH EXISTING AC PAVEMENT (USD #500.3, 500.4, 500.5, & 503)
 - INSTALL CONCRETE VALLEY GUTTER (SEE E/GD1)
 - INSTALL SIDEWALK UNDERDRAIN (CCAUSS #236)
 - L-CURB CUT AND GUTTER (SEE M/GD1)
 - SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235 CASE 1) A=5', B=4.5'
 - SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235) A=8'
 - INSTALL 16" X 48" BLOCK WALL OPENING (SEE K/GD1)
 - INSTALL SIDEWALK (USD #234) WITH A-TYPE CURB (USD #219)
 - INSTALL REMOVABLE BOLLARD AT 4 O.C. (DCSWCS SD-38) DETAIL R/GD1

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 5,882.51 CY CUT / 12,330.87 CY FILL / 6,448.35 CY NET FILL

NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOOD ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FIRM PANEL 32003C1745E, REVISED SEPTEMBER 27, 2002.

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

GRADING NOTES

COMPLETION OF SECTION II OF DRAINAGE COMPLIANCE REPORT REQUIRED.

ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT. 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019S5 ELEVATION (FEET): 2618.96 (798.258 METERS)

GRADING CERTIFICATION - CLV, CC

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS4994, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, PW18-17755, ON FILE WITH CLARK COUNTY FOR THIS PROJECT.

APPROVED FOR CONSTRUCTION

[Signature]

DATE: 1/9/19

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: *[Signature]* 3/25/19 DATE: 1/9/19

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

ACCEPTANCE OF PLANS

[Signature] 1/10/19 DATE: 1/10/19

ACCEPTANCE OF PLANS FOR FILING

BY: DEVELOPMENT AND FLOOD CONTROL DATE: 1/10/19

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 68
LAS VEGAS, NV 89119
(702) 886-9617

REPORT NO.: 1916-GEO
DATE: 03/02/18

Call before you Overhead

1-702-227-2929

Call before you Dig

811

OR 1-800-227-2600

REVISIONS		BY		DATE	
NO.	DESCRIPTION	SHTS.	APPR.	DATE	

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8888 FAX: (702) 365-8233

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8888 FAX: (702) 365-8233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

GRADING PLAN 2

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

DATE: 1/9/2019

SCALE: 1"=30'

JOB NO: ADV-17-086

DESIGNED BY: BP CHECKED BY: SJT

SHEET NAME: G2

SHEET NUMBER: 05 OF 20

PW18-18639
107Y5089 L18-02344

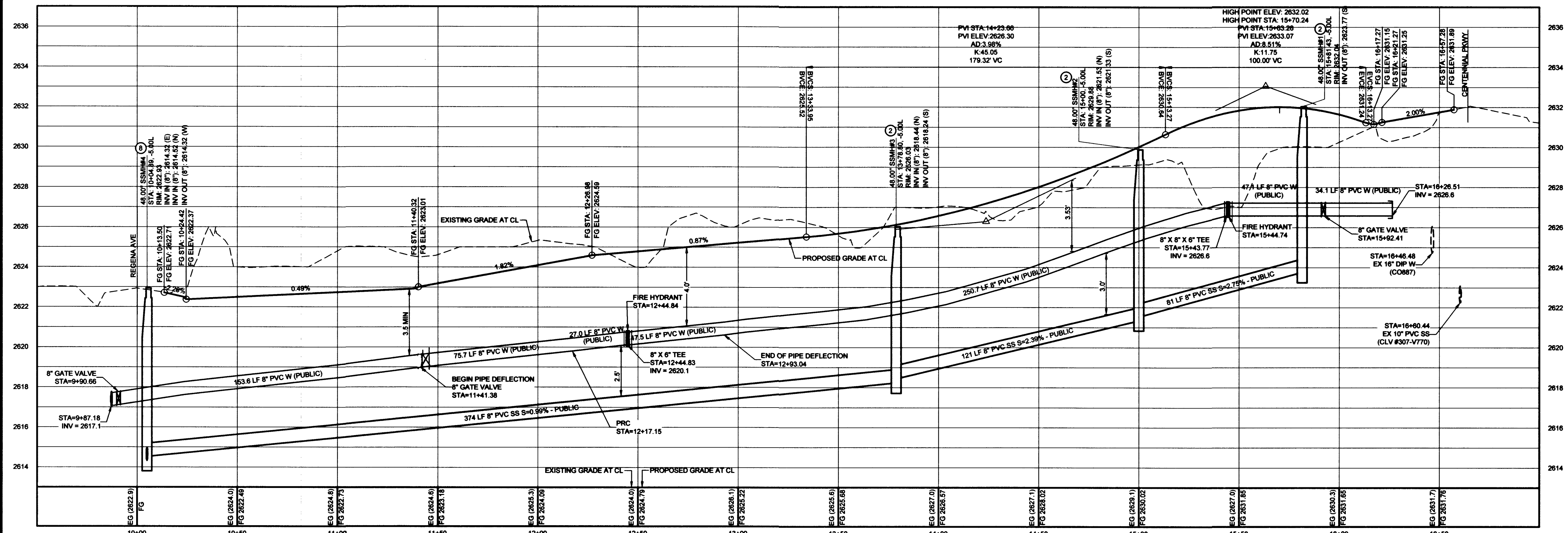
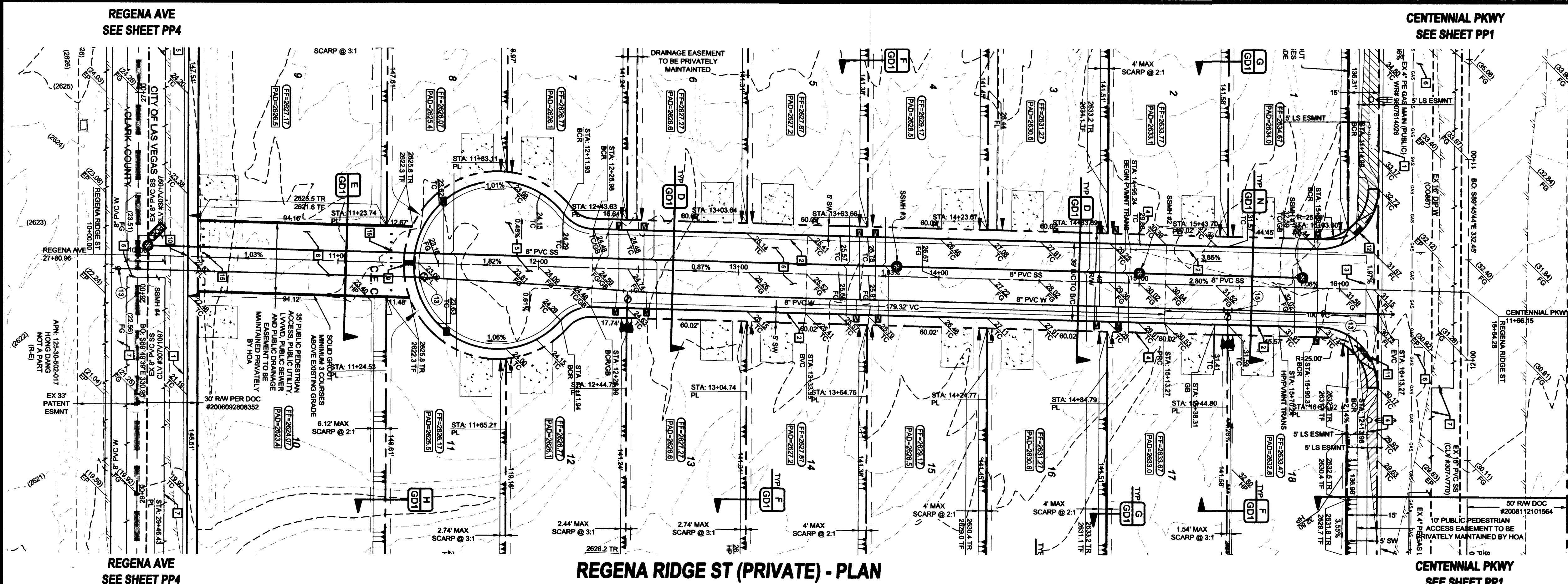


Call before you Dig
Avoid cutting underground
utility lines... it's costly.

CALL
811
OR
1-800-227-2600

		CENTENNIAL & FORT APACHE A RESIDENTIAL SUBDIVISION WALL PLAN 1		 EST. 2000		ADAVEN HOMES 3425 CLEVELAND PARKWAY FORT WORTH, TEXAS 76106 (702) 365-8988 FAX:		ANE & ENGINEERING 6030 S. JOHNS BOULEVARD SUITE 100 FORT WORTH, TEXAS 76132 (702) 382-5844 FAX: (702) 382-5233							
DATE:		1/9/2019		NO.		DESCRIPTION		BY		SHTS.		APPR.		DATE	
SCALE:		1"=30'		JOB NO:		ADV-17-0866		DESIGNED BY:		BP		CHECKED BY:		SJT	
SHEET NAME:		W1		SHEET NUMBER:		07 OF 20		PW18-186393		L18-02344					

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGINEERING\DWG\ADV17086_SHT_PP.DWG



REGENA RIDGE ST (PRIVATE) - PROFILE
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

KEY MAP

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: *Calvin* DATE: 3/25/19

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

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NOTES

NOTE: REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER CLARK COUNTY JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE APPROVED EQUIVALENT.

CONSTRUCTION NOTES

- 24" L-TYPE CURB & GUTTER (USD #216)
- INSTALL 30" MODIFIED ROLL CURB AND GUTTER (CCASD #217.1)
- 8.0" CROSS GUTTER (USD #228)
- 5.0" SIDEWALK (USD #234)
- 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (HTE XXXXX)
- 5.5" AC PAVEMENT OVER 6" TYPE II PER SOILS REPORT (HTE XXXXX)
- SAWCUT & MATCH EXISTING AC PAVEMENT (USD #500.3, 500.4, 500.5, & 503)
- INSTALL CONCRETE VALLEY GUTTER (SEE EGD1)
- INSTALL SIDEWALK UNDERDRAIN (CCASD #236)
- CURB CUT AND GUTTER (SEE MGD1)
- SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235 CASE 1) A=9.5', B=4.5'
- SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235) A=8', B=8'
- INSTALL 16" X 48" BLOCK WALL OPENING (SEE KGD1)
- INSTALL SIDEWALK (USD #234) WITH A-TYPE CURB (USD #219)
- INSTALL REMOVABLE BOLLARD AT 4 O.C. (DCSWCS SD-38) DETAIL R/GD1
- INSTALL 48" STANDARD MANHOLE (DCSWCS SD-1A, SD-1B, & SD-4) WITH SINGLE 24" LID
- INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE (DCSWCS SD-7) WITH SINGLE 24" LID
- INSTALL 8" GV PER UDACS PLT 30
- INSTALL 10" X 8" REDUCER

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO. 1916-GE0
DATE: 03/02/18

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

LINE AND CURVE DATA

FOR LINE AND CURVE DATA TABLES, SEE THE GRADING PLAN SHEETS FOR THIS PROJECT.

PROFILE NOTES

ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION

Dianne Dean
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE: 2/12/17
LVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: N/A GPM

ACCEPTANCE OF PLANS FOR FILING

BY: DEVELOPMENT AND FLOOD CONTROL DATE:

ADAVEN HOMES
345 CLIFF WALKWAY PKWY
LAS VEGAS, NV 89129
(702) 365-8888 FAX:

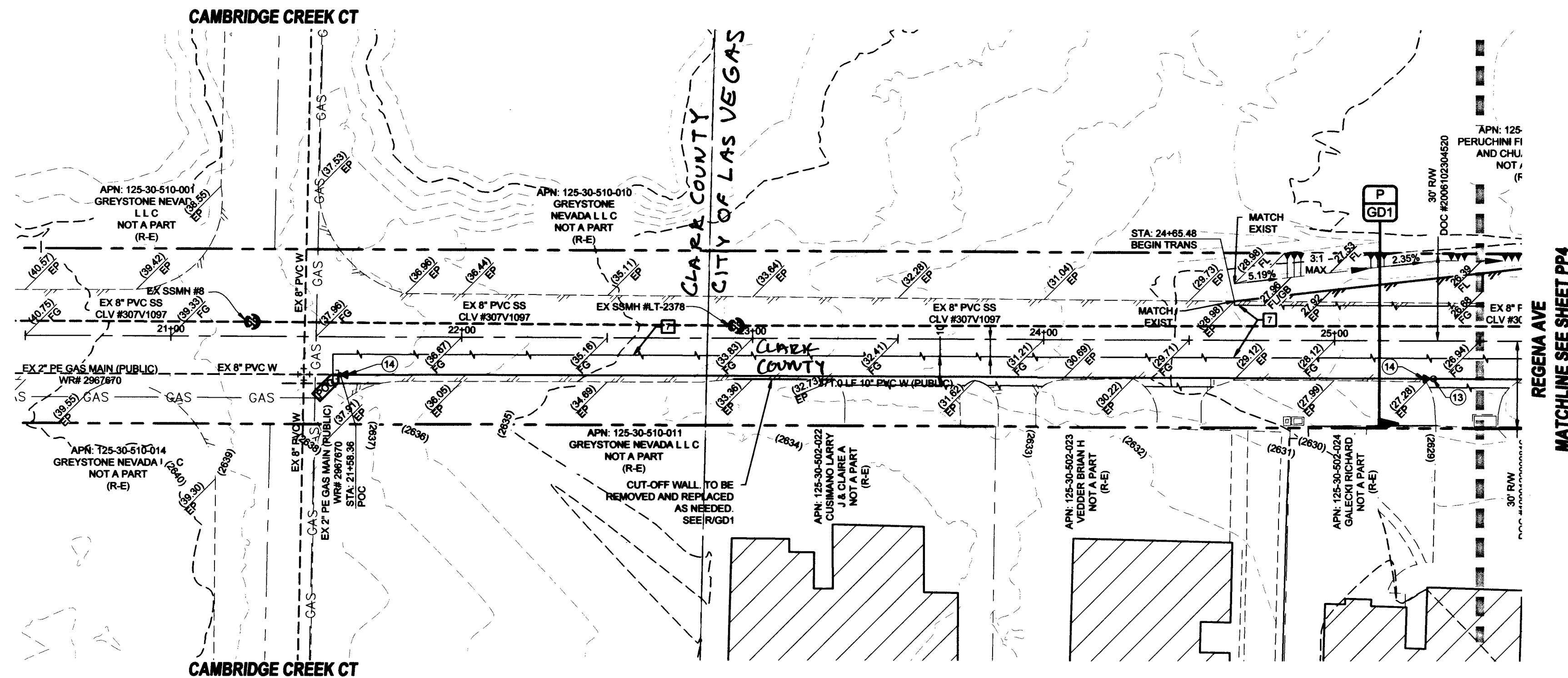
TANEY ENGINEERING
6000 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
PLAN & PROFILE 2
REGENA RIDGE ST

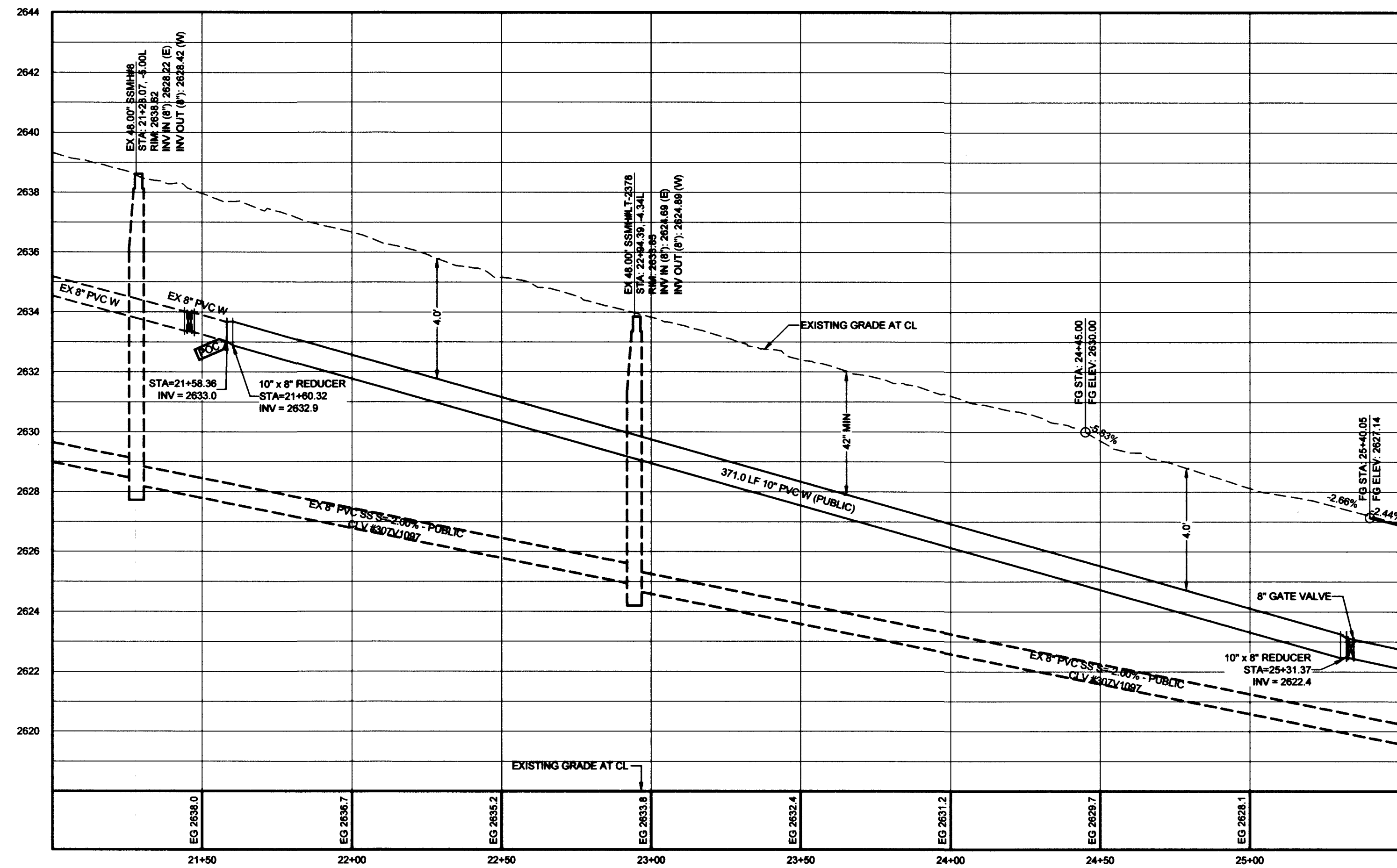
DATE: 1/9/2019
SCALE: 1"=30'
JOB NO: ADV-17-086
DESIGNED BY: BP CHECKED BY: SJT
SHEET NAME: PP2
SHEET NUMBER: 10 OF 20
BY: PW18-18639 DATE: 10/7/2019

ACCEPTANCE OF PLANS
Dianne Dean
SOUTHWEST GAS CORPORATION
1-10-19
DATE

FILE NAME: S:\ACTIVE\ADVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\DWG\PRODUCTION\DWG\SSHEET DWG\ADV17086_SHT_PP.DWG



REGENA AVE (PUBLIC) - PLAN
STA: 21+00.00 TO 25+50.00



REGENA AVE (PUBLIC) - PROFILE
STA: 21+00.00 TO 25+50.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKET BALLS, PER UDACS PLATE NO. 15
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

ACCEPTANCE OF PLANS

Pamela Kennedy
SOUTHWEST GAS CORPORATION

1-10-19
DATE

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION
2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE
INSTALLATION.

Call before you Dig
Avoid cutting underground
utility lines. It's costly.
CALL
811
OR
1-800-227-2600

Call before you
Overhead
1-702-227-2929

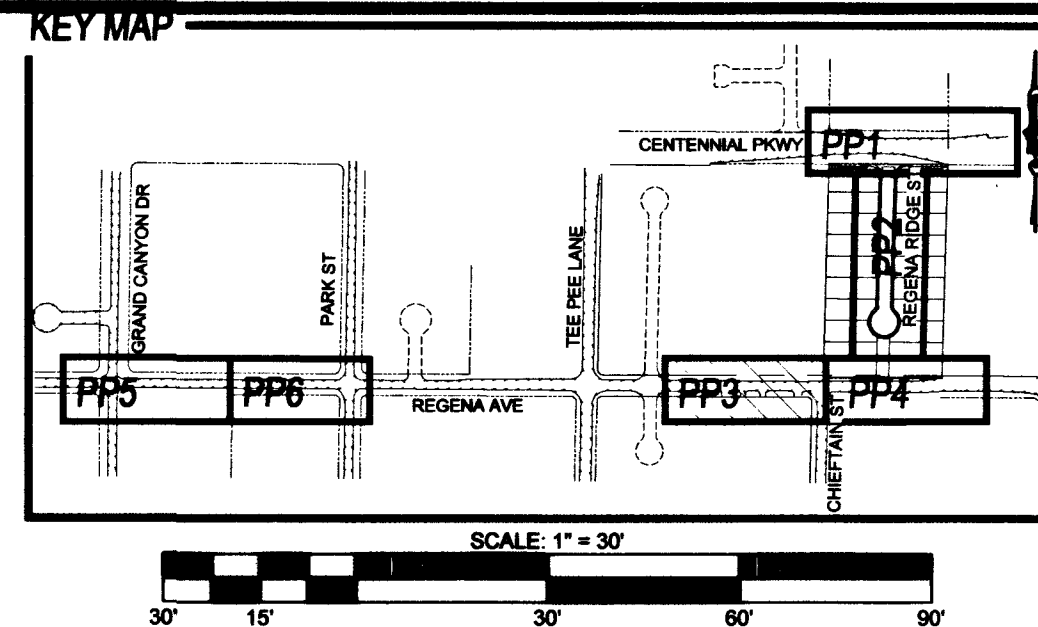
APPROVED FOR CONSTRUCTION

Shanne Dean
LAS VEGAS VALLEY DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE: 12/1/17
LIVING APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: N/A GPM

ACCEPTANCE OF PLANS FOR FILING

BY: _____
DEVELOPMENT AND FLOOD CONTROL

PW18-18639
107Y5089



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: *Calvin* 3/25/19
DATE

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT
FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR
COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM
DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM
THE ENGINEERING DESIGN DEPICTED HEREIN.

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NOTES

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CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. INSTALL 30" MODIFIED ROLL CURB AND GUTTER (CCAUSD #217.1)
3. 6" CROSS GUTTER (USD #228)
4. 5.0' SIDEWALK (USD #234)
5. 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (HTE XXXX)
6. 5.5" AC PAVEMENT OVER 8" TYPE II PER SOILS REPORT (HTE XXXX)
7. SAWCUT & MATCH EXISTING AC PAVEMENT (USD #500.3, 500.4, 500.5, & 503)
8. INSTALL CONCRETE VALLEY GUTTER (SEE E/GD1)
9. INSTALL SIDEWALK UNDERDRAIN (CCAUSD #236)
10. L-CURB CUT AND GUTTER (SEE M/GD1)
11. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #236 CASE
I) A=9.5', B=4.5'
12. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235) A=8',
B=5'
13. INSTALL 16" X 48" BLOCK WALL OPENING (SEE K/GD1)
14. INSTALL SIDEWALK (USD #234) WITH A-TYPE CURB (USD #219)
15. INSTALL REMOVABLE BOLLARD AT 4 O.C (DCSWCS SD-38) DETAIL R/GD1
16. INSTALL 48" STANDARD MANHOLE (DCSWCS SD-1A,
SD-1B, & SD-4) WITH SINGLE 24" LID
17. INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE
BASE (DCSWCS SD-7) WITH SINGLE 24" LID
18. INSTALL 8" GV PER UDACS PLT 30
19. INSTALL 10" X 8" REDUCER

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO.: 1916-GEO
DATE: 03/02/18

UTILITY DISCLAIMER

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CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL
LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING
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HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR
UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

LINE AND CURVE DATA

FOR LINE AND CURVE DATA TABLES, SEE THE GRADING PLAN SHEETS FOR THIS PROJECT.

PROFILE NOTES

ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND
MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE
PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE
BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BENCHMARK

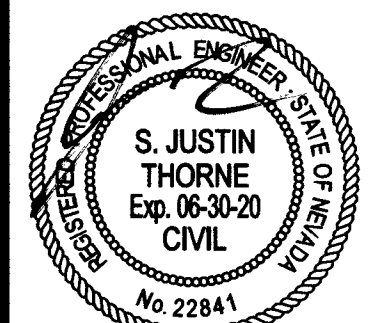
RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST
OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2616.96 (798.256 METERS)

ADAVEN HOMES
3405 CLIFF STADIUMS PKWY
LAS VEGAS, NV 89129
(702) 362-8868 FAX:

TANEY ENGINEERING
6000 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233



CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
PLAN & PROFILE 3
REGENA AVE
STA: 21+00 TO 25+50



DATE: 1/9/2019
SCALE: 1"=30'

JOB NO.: ADV-17-086

DESIGNED BY: BP CHECKED BY: SJT

SHEET NAME: PP3

SHEET NUMBER: 11 OF 20

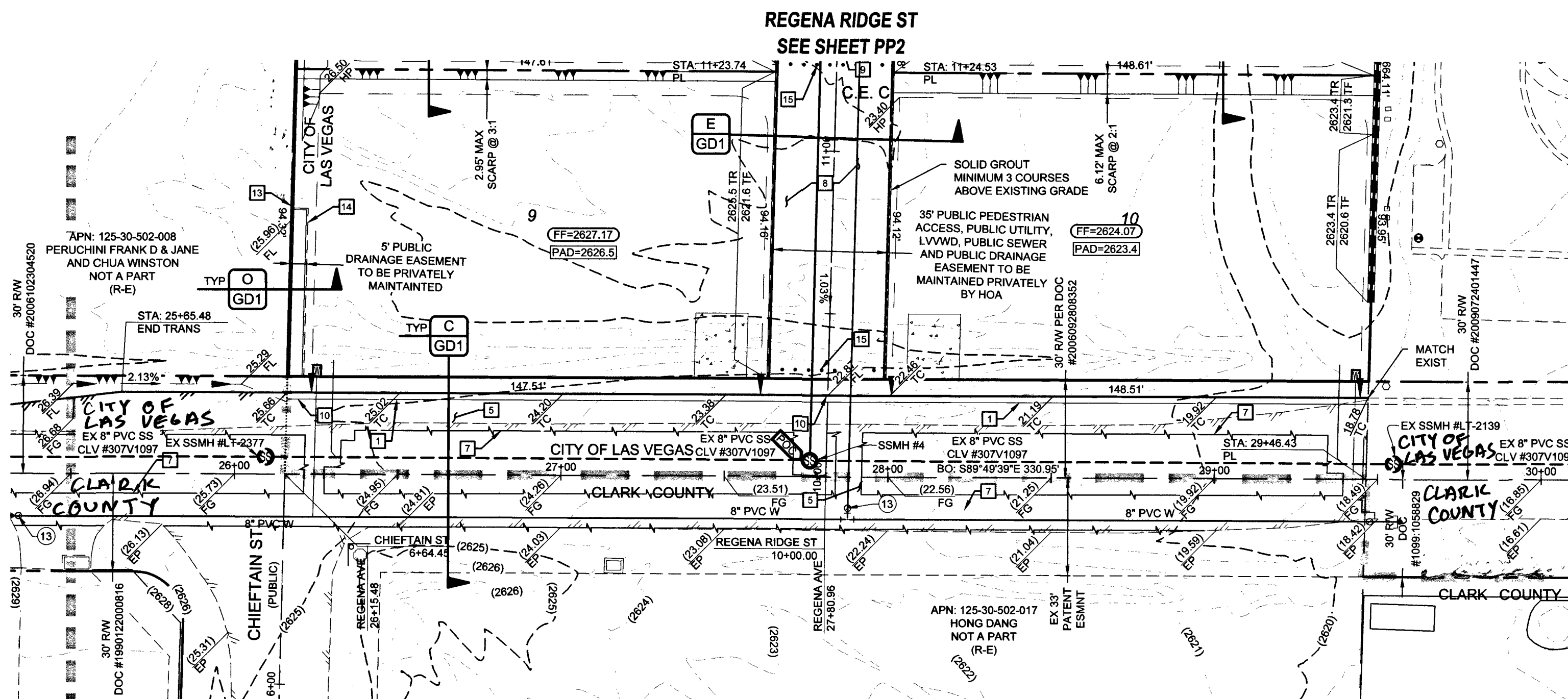
DATE: 1/10/19

PW18-18639
107Y5089

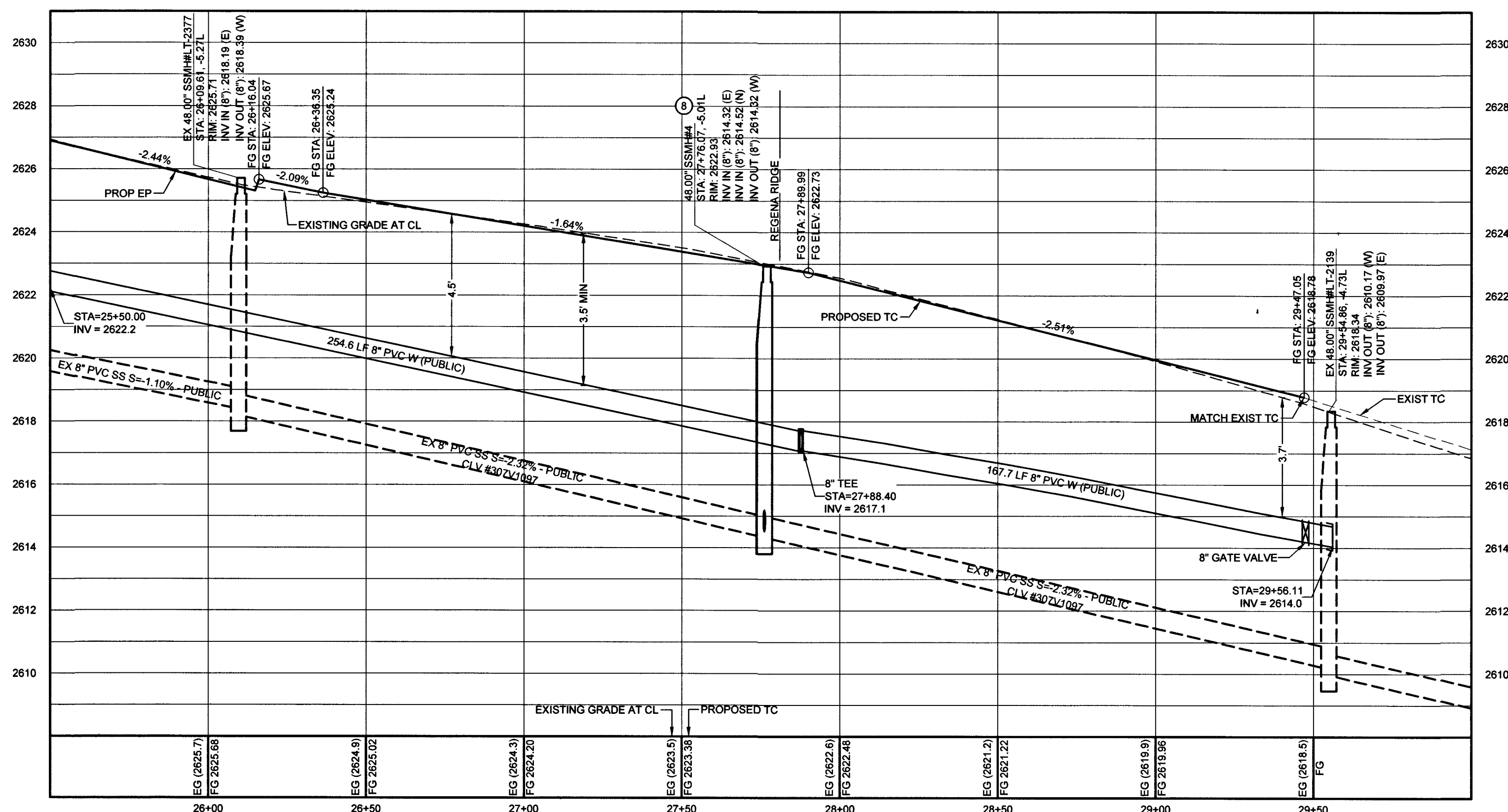
PROJ#: 135691A QS: 25-30-N

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIN\PRODUCTION\DWGS\ADV17086_SHT_PP.DWG

REGENA AVE
MATCHLINE SEE SHEET PP3



REGENA AVE (PUBLIC) - PLAN
STA: 24+50.00 TO 30+00.00



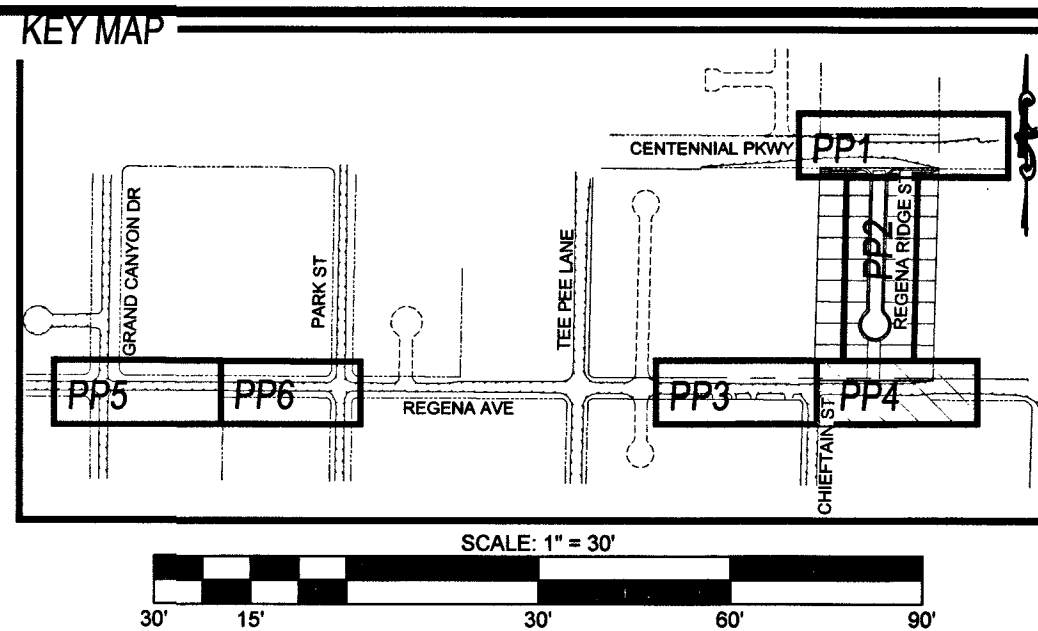
REGENA AVE (PUBLIC) - PROFILE
STA: 24+50.00 TO 30+00.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKET BALLS, PER UDACS PLATE NO. 15
WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION
2.08.04. GRADINGS MUST BE COMPLETED PRIOR TO WATERLINE
INSTALLATION.

Call before you Dig
Avoid cutting underground
utility lines. It's costly.
CALL
811
OR
1-800-227-2600

Call
before you
Overhead
1-702-227-2929



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING
BY: *Carl P. H...* 3/25/19
DATE:
ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT
FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR
COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM
DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM
THE ENGINEERING DESIGN DEPICTED HEREIN.
NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION
BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO
EXPENSE TO CLARK COUNTY.
NOTES
NOTE: REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER
CLARK COUNTY JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED
BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIAL USED SHALL
MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE APPROVED EQUIVALENT.

- CONSTRUCTION NOTES
1. 24" L-TYPE CURB & GUTTER (USD #216)
 2. INSTALL 30" MODIFIED ROLL CURB AND GUTTER (CCAUSD #217.1)
 3. 8" O' CROSS GUTTER (USD #228)
 4. 5.0' SIDEWALK (USD #234)
 5. 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (HTE XXXX)
 6. 5.5' AC PAVEMENT OVER 6" TYPE II PER SOILS REPORT (HTE XXXX)
 7. SAWCUT & MATCH EXISTING AC PAVEMENT (USD #500.3, 500.4, 500.5, & 503)
 8. INSTALL CONCRETE VALLEY GUTTER (SEE E/GD1)
 9. INSTALL SIDEWALK UNDERDRAIN (CCAUSD #236)
 10. L-CURB CUT AND GUTTER (SEE M/GD1)
 11. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235 CASE 1) A=5.5', B=4.5'
 12. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235) A=8', B=8'
 13. INSTALL 16" X 48" BLOCK WALL OPENING (SEE K/GD1)
 14. INSTALL SIDEWALK (USD #234) WITH A-TYPE CURB (USD #219)
 15. INSTALL REMOVABLE BOLLARD AT 4 O.C. (DCSWCS SD-38) DETAIL R/GD1
 16. INSTALL 48" STANDARD MANHOLE (DCSWCS SD-1A, SD-1B, & SD-4) WITH SINGLE 24" LID
 17. INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE (DCSWCS SD-7) WITH SINGLE 24" LID
 18. INSTALL 8" GV PER UDACS PLT 30
 19. INSTALL 10" X 8" REDUCER

GEOTECHNICAL
AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617
REPORT NO: 1916-GEO
DATE: 03/02/18

UTILITY DISCLAIMER
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE
CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT 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 OR
UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

LINE AND CURVE DATA
FOR LINE AND CURVE DATA TABLES, SEE THE GRADING PLAN SHEETS FOR THIS PROJECT.

PROFILE NOTES
ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND
MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).
ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE
PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE
BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BENCHMARK
RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST
OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION
Shanne O...
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2/10/19
LVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: N/A GPM
ACCEPTANCE OF PLANS FOR FILING
BY: DEVELOPMENT AND FLOOD CONTROL DATE:

REVISIONS		BY		DATE	
NO.	DESCRIPTION	SHTS.	APPR.	DATE	

CENTENNIAL & FORT APACHE A RESIDENTIAL SUBDIVISION PLAN & PROFILE 4 REGENA AVE STA: 24+50 TO 30+00	
ADAVEN HOMES 3425 CLIFF SHADOWS PKWY LAS VEGAS, NV 89129 (702) 365-8888 FAX: TANEY & ENGINEERING 6000 S. JONES BOULEVARD LAS VEGAS, NV 89118 (702) 362-8844 FAX: (702) 362-5233	
EST. 2000	
S. JUSTIN THORNE Exp. 06-30-20 CIVIL	
DATE: 1/9/2019	
SCALE: 1"=30'	
JOB NO: ADV-17-086	
DESIGNED BY: BP CHECKED BY: SJT	
SHEET NAME: PP4	
SHEET NUMBER: 12 OF 20	
PW18-18639 107Y5089 L18-02344	

PROJ# 135691A QS:125-30-NE

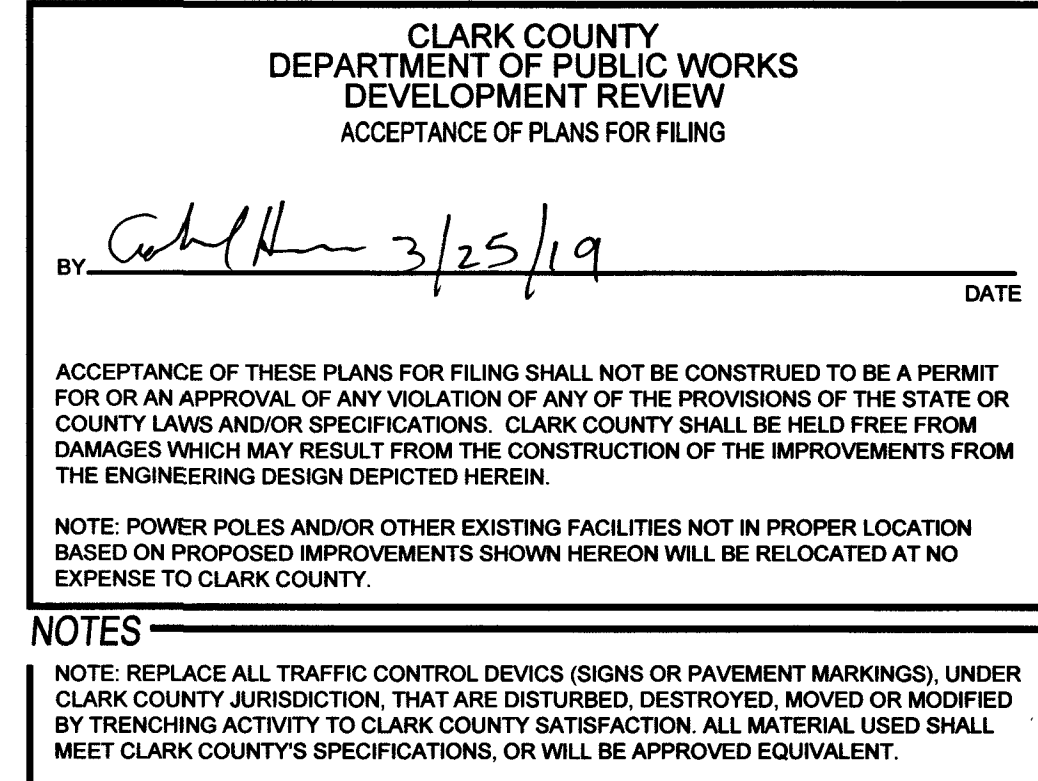
[illegible]

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION
2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE
INSTALLATION.

CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR
HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

Avoid overhead power
line contact. it's costly.

Call
before you
Overhead
1-702-227-2929



- GEOTECHNICAL**
- AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617
- REPORT NO: 1916-GEO
DATE: 03/02/18

LINE AND CURVE DATA

FOR LINE AND CURVE DATA TABLES, SEE THE GRADING PLAN SHEETS FOR THIS PROJECT.

PROFILE NOTES

ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BENCHMARK
RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST
OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION

Dianne Oan

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT # 135691 FIRST APPROVED DATE 5-16-13
LUVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

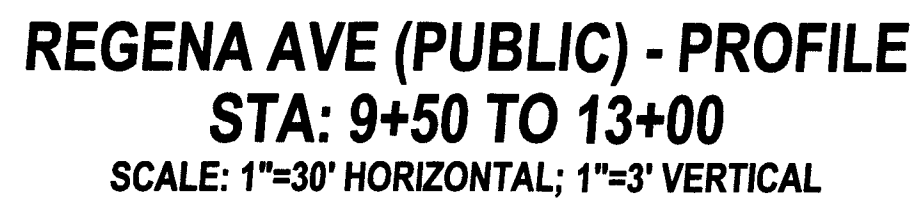
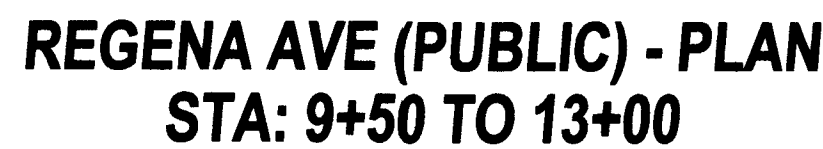
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE _____
DEVELOPMENT AND FLOOD CONTROL

**CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
PLAN & PROFILE 5
REGENA AVE
STA: 4+50 TO 9+50**

DATE:		1/9/2019	
SCALE:		1"=30'	
JOB NO:		ADV-17-086	
DESIGNED BY: BP		CHECKED BY: SJT	
SHEET NAME:		PP5	
SHEET NUMBER:		13 OF 20	
---		PW18-18639	
107Y5089		L18-02344	

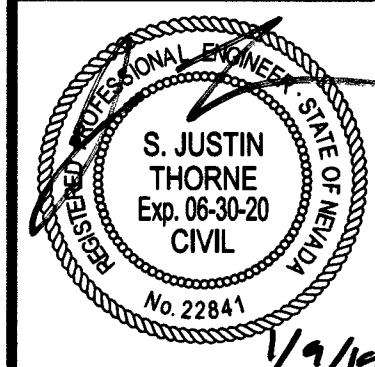
FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\PS\PRODUCTION\DWGS\ADV17086_SHT_PP.DWG



107YF080 PW18-18639
118 02314

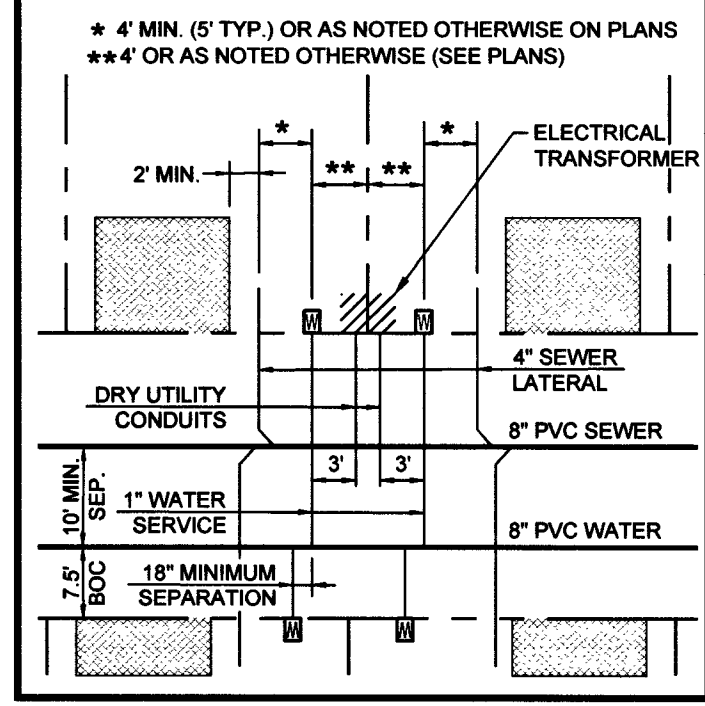


**PLAN & PROFILE 6
REGENA AVE
STA: 9+50 TO 13+00**

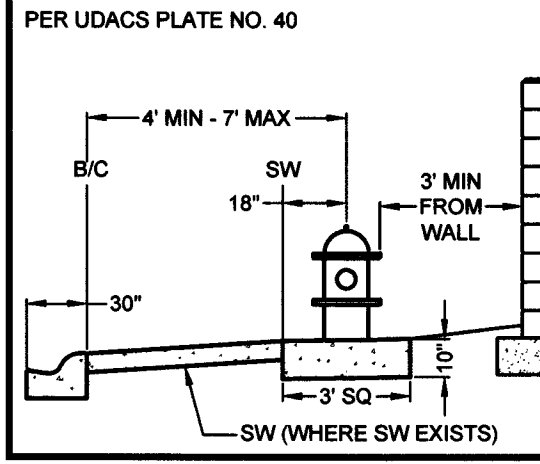


107YF080 PW18-18639
118 02314

TYPICAL LATERAL LAYOUT N.T.S. FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



TYPICAL FIRE HYDRANT LAYOUT PER UDACS PLATE NO. 40



FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

BASED ON:
 SQUARE FOOTAGE: 6,200 SQUARE FEET
 NUMBER OF STORIES / FLOORS: 2
 AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☒ NO
 ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 13D SPRINKLER SYSTEM SHALL BE REQUIRED.

OF HYDRANTS PROVIDED: 2

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")
 PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

CAUTION: HIGH PRESSURE GAS!!

CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

UTILITY DISCLAIMER

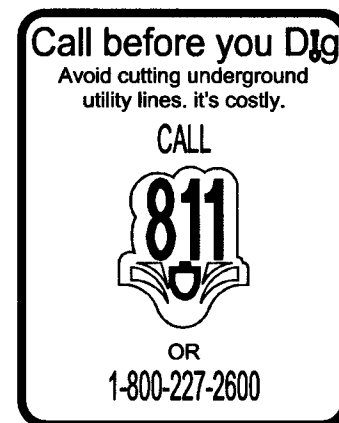
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 109019SES ELEVATION (FEET): 2618.96 (738.256 METERS)

UTILITY NOTES

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
- FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
- WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
- LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
- ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
- ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
- 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
- 12' MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6' MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.05



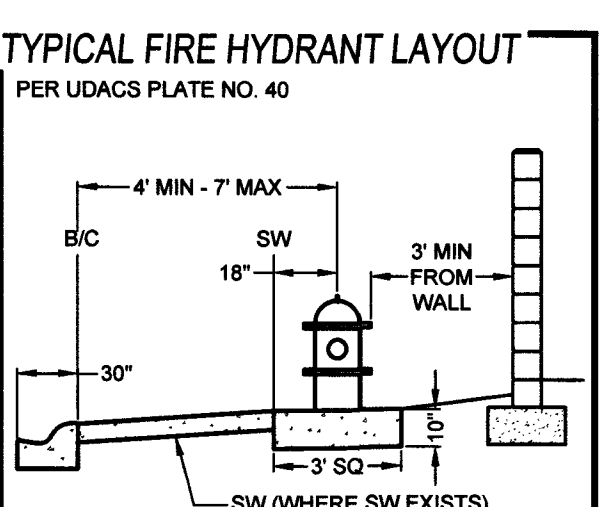
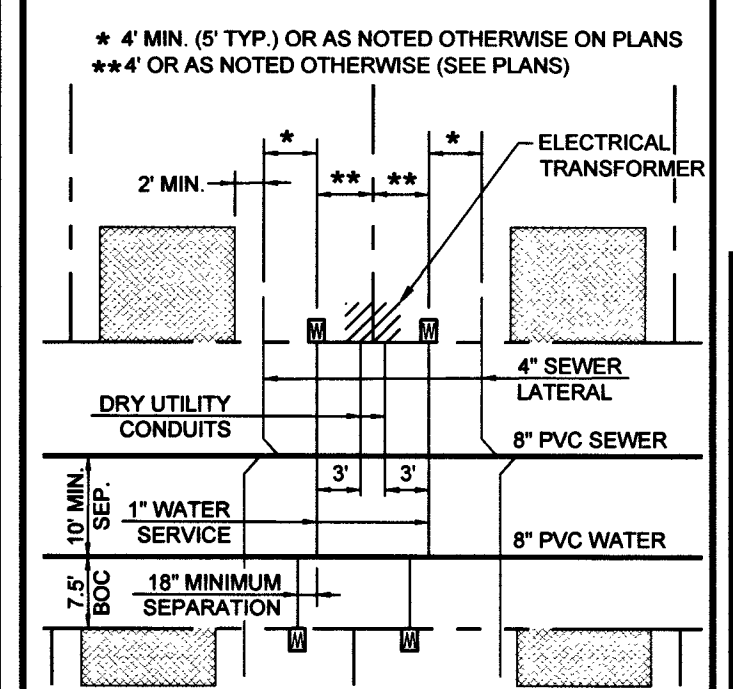
APPROVED FOR CONSTRUCTION LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT # 135691 FIRST APPROVED DATE 1/10/19 LVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: N/A GPM	
ACCEPTANCE OF PLANS SOUTHWEST GAS CORPORATION DATE 1/10/19	
APPROVED FOR CONSTRUCTION CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.	

ADAVEN HOMES 3428 CLIFF SHADOWS PKWY LAS VEGAS, NV 89129 (702) 365-4888 FAX:		TANEY ENGINEERING 6030 S. JONES BOULEVARD LAS VEGAS, NV 89118 (702) 582-6844 FAX: (702) 582-5233	
CENTENNIAL & FORT APACHE A RESIDENTIAL SUBDIVISION MASTER UTILITY PLAN		DATE: 1/9/2019 SCALE: 1"=100' JOB NO: ADV-17-086 DESIGNED BY: BP CHECKED BY: SJT SHEET NAME: MUT SHEET NUMBER: 15 OF 20 PW18-18639 107Y5089 L18-02344	
REVISIONS NO. DESCRIPTION BY SHTS. APPR. DATE		PROJECT # 135691A QS:125-30-NE	

FILE NAME: S:\ACTIV\ADVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGINEERING\DWG\SSHEET DWG\ADV17086_SHT_UT.DWG

PRV NOTES
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

TYPICAL LATERAL LAYOUT N.T.S.
FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.
BASED ON:
SQUARE FOOTAGE: 6,200 SQUARE FEET
NUMBER OF STORIES/FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM
IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 13D SPRINKLER SYSTEM SHALL BE REQUIRED.
OF HYDRANTS PROVIDED: 2

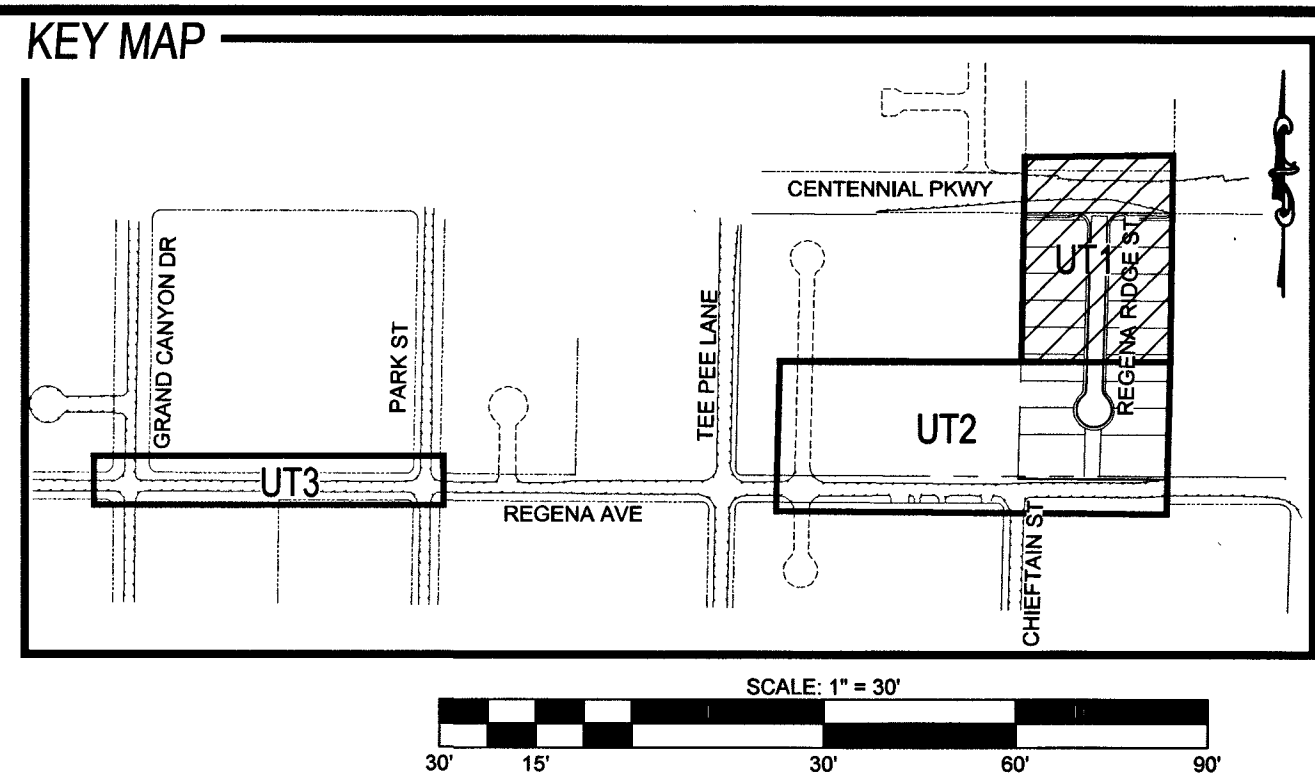
UTILITY DISCLAIMER
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BENCHMARK
RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019S5
ELEVATION (FEET): 2618.96 (798.258 METERS)

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL
811
OR
1-800-227-2600
Call before you Overhead
Avoid overhead power line contact. It's costly.
Call
before you Overhead
1-702-227-2929

- UTILITY NOTES**
1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
 2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
 3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
 4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
 5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
 7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
 8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT. 15.)
 9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
 10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

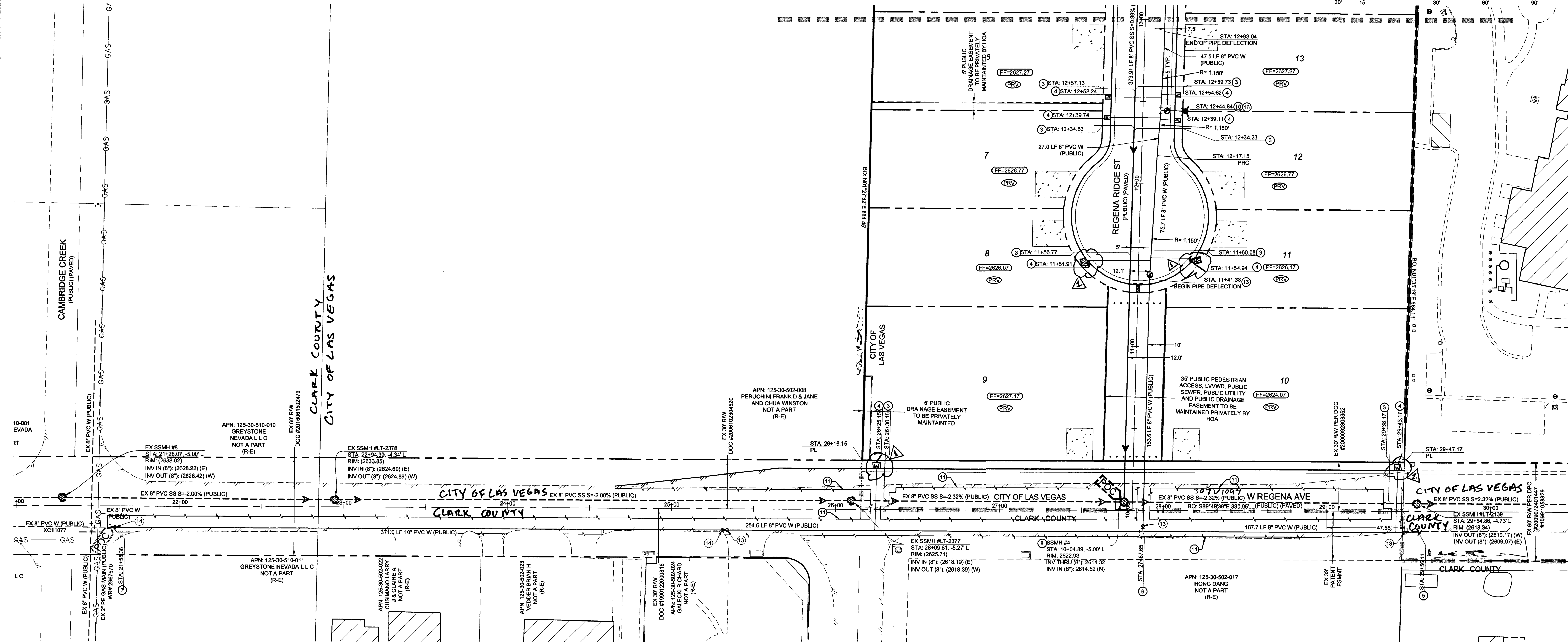
- CONSTRUCTION NOTES**
1. INSTALL 8" PVC SS (DCSWCS SD-17)
 2. INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B, & SD-4)
 3. 4" SEWER LATERAL W/ MARKER BALL & CURB MARKING (DCSWCS SD-22)
 4. 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 1)
 5. CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 38)
 6. INSTALL 8" X 8" WATER TEE (UDACS PLT. 31)
 7. REMOVE EX BLOW-OFF VALVE AND CONNECT TO EX WATERLINE
 8. INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE (DCSWCS SD-7)
 9. INSTALL 45" HORIZONTAL BEND ROLLED 11" (UDACS PLT. 31)
 10. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
 11. SAWCUT & MATCH INTO EXISTING AC PAVEMENT (CCAUSSD #500.3, 500.4, 500.5 & 503)
 12. NOT USED
 13. INSTALL 8" GV PER UDACS PLT. 30
 14. INSTALL 10" X 8" REDUCER
 15. NOT USED
 16. INSTALL 8" X 6" TEE PER UDACS PLT. 31

ACCEPTANCE OF PLANS	
SOUTHWEST GAS CORPORATION	
DATE:	1/9/2019
SCALE:	1"=30'
APPROVED FOR CONSTRUCTION	
SOUTHWEST GAS CORPORATION	
APPROVED FOR CONSTRUCTION	
CITY OF LAS VEGAS FIRE DEPARTMENT	
APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.	



ADAVEN HOMES 3400 S. JONES BLVD LAS VEGAS, NV 89118 (702) 365-8868 FAX: (702) 365-8868		TANEY ENGINEERING 6000 S. JONES BOULEVARD LAS VEGAS, NV 89118 (702) 365-8864 FAX: (702) 365-8233	
CENTENNIAL & FORT APACHE A RESIDENTIAL SUBDIVISION		UTILITY PLAN 1	
REVISIONS		NO.	
DESCRIPTION		BY	
SHTS.		APPR.	
DATE			
REVISION TO BE RETAINED TO KEEP RETAINING BELOW 16 SHEETS. 6/17/19			
SHEET NUMBER		16 OF 20	
PROJECT NUMBER		PW18-18639	
PROJECT NAME		107Y5089	

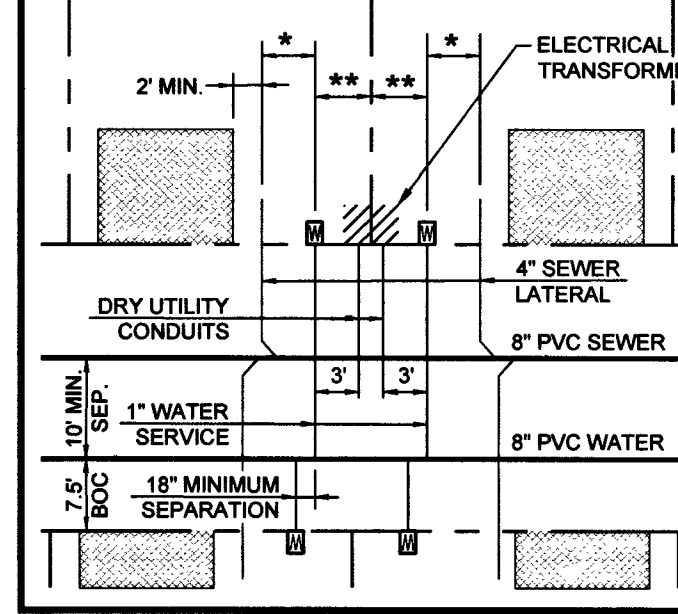
FILE NAME: S:\ACTIVE\ADVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGINEERING\PRODUCTION\DWG\SSHT UT-DWG



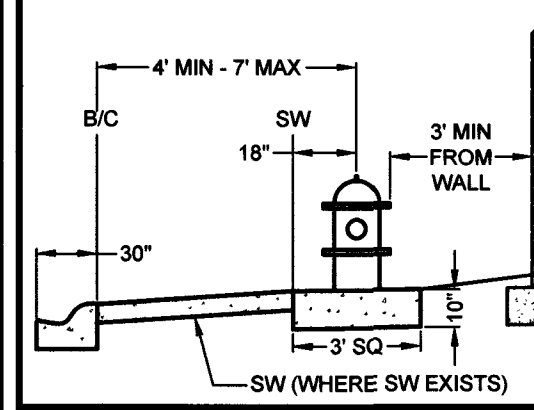
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TYPICAL LATERAL LAYOUT N.T.S
FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)

* 4" MIN. (5' TYP.) OR AS NOTED OTHERWISE ON PLANS
** 4" OR AS NOTED OTHERWISE (SEE PLANS)



TYPICAL FIRE HYDRANT LAYOUT
PER UDACS PLATE NO. 40



FIRE FLOW CALCULATIONS

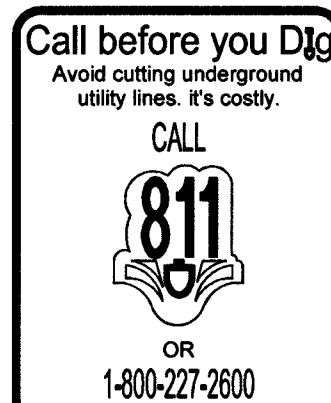
FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

BASED ON:
SQUARE FOOTAGE: 6,200 SQUARE FEET
NUMBER OF STORIES / FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 130 SPRINKLER SYSTEM SHALL BE REQUIRED.

* OF HYDRANTS PROVIDED: 2

TO ENSURE LVWD ACCESS WITHIN EASEMENT
All above ground obstructions including but not limited to, landscape boulders, fences / walls, and signs are strictly prohibited within easement.



Call before you Overhead
1-702-227-2929

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 109019SES
ELEVATION (FEET): 2618.96 (796.258 METERS)

CONSTRUCTION NOTES

1. INSTALL 8" PVC SS (DCSWCS SD-17)
2. INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B & SD-1C)
3. 4" SEWER LATERAL W/ MARKER BALL & CURB MARKING (DCSWCS SD-22)
4. 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 1)
5. CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 36)
6. INSTALL 8" X 8" WATER TEE (UDACS PLT. 31)
7. REMOVE EX BLOW-OFF VALVE AND CONNECT TO EX WATERLINE
8. INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE (DCSWCS SD-7)
9. INSTALL 45" HORIZONTAL BEND ROLLED 11" (UDACS PLT. 31)
10. INSTALL FIRE HYDRANT ASSEMBLY W/ 8" GATE VALVE (UDACS PLT. 40)
11. SAWCUT & MATCH INTO EXISTING ASP PAVEMENT (CCAUSD #500.3, 500.4, 500.5 & 503)
12. NOT USED
13. INSTALL 8" GV PER UDACS PLT 30
14. INSTALL 10" X 8" REDUCER
15. NOT USED
16. INSTALL 8" X 6" TEE PER UDACS PLT. 31

ACCEPTANCE OF PLANS

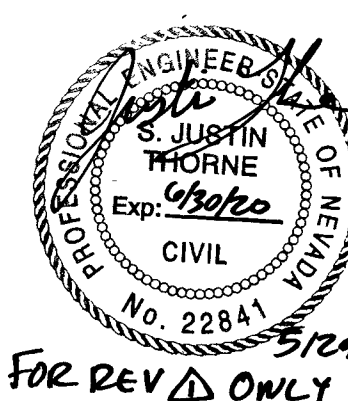
Paul Kennedy
SOUTHWEST GAS CORPORATION

APPROVED FOR CONSTRUCTION

James Orr
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE: 2-6-19
LVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW: N/A GPM

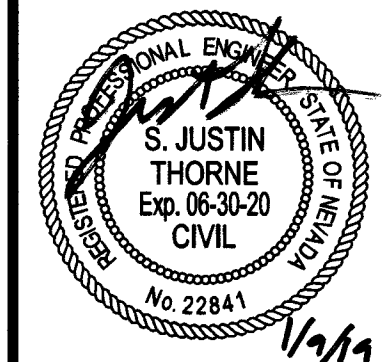
APPROVED FOR CONSTRUCTION

Paul Kennedy
CITY OF LAS VEGAS FIRE DEPARTMENT
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.



FOR REV ONLY

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION



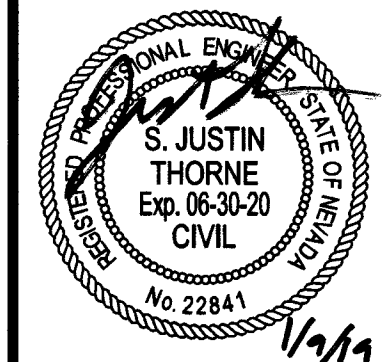
DATE: 1/9/2019
SCALE: 1"=30'
JOB NO: ADV-17-086
DESIGNED BY: BP CHECKED BY: SJT
SHEET NAME: UT2
SHEET NUMBER: 17 OF 20
PWTB-18639
107Y089 L18-02344

REVISIONS		DESCRIPTION	BY	SHTS.	APPR.	DATE
NO.						
1		REVISION TO RETAINING TO KEEP RETAINING BEHIND SIT 17				
2		6 FEET. MOVED N.W. TO BE AT INEBIC ADDED				
3		506 SHEETS				

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89128
(702) 365-6886 FAX: (702) 365-6884



UTILITY PLAN 2

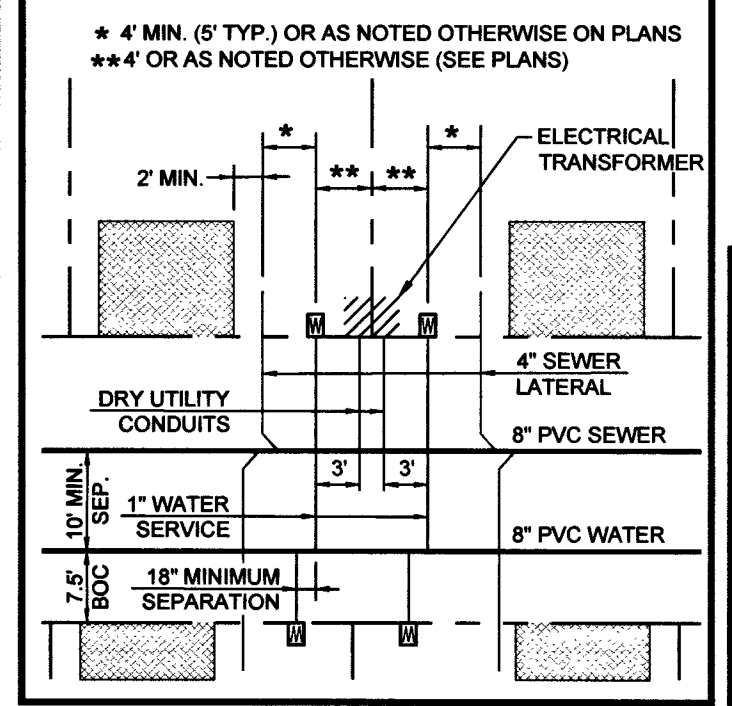


PROJECT# 135691A US:125-30-NE

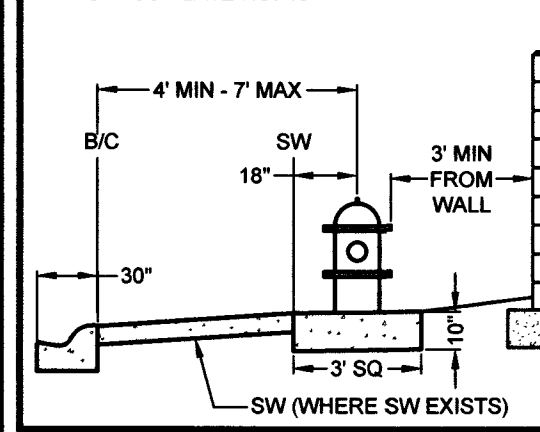


THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED
(SIZES AS NOTED ON PLANS)



PER UDACS PLATE NO. 40



FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOME EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, 13D SPRINKLER SYSTEM SHALL BE REQUIRED.

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST
OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADJACENT PARCELS OR DRIVERS WHO MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.2.2 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS, AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.

- 1) INSTALL 8" PVC SS (DCSCWS SD-17)
- 2) INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSCWS SD-1A, SD-1B, & SD-4)
- 3) 4" SEWER LATERAL W/ MARKER BALL & CURB MARKING (DCSCWS SD-22)
- 4) 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 1)
- 5) CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 36)
- 6) INSTALL 8" X 8" WATER TEE (UDACS PLT. 31)
- 7) REMOVE EX. BLOW-OFF VALVE AND CONNECT TO EX. WATER LINE
- 8) INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE (DCSCWS SD-7)
- 9) INSTALL 48" HORIZONTAL BEND ROLLED 11" (UDACS PLT. 31)
- 10) INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
- 11) SAWCUT & MATCH INTO EXISTING AC PAVEMENT (CMAA50 #500.3, 500.4, 500.5 & 500.3)
- 12) NOT USED
- 13) INSTALL 8" GV PER UDACS PLT 30
- 14) INSTALL 10" X 8" REDUCER
- 15) NOT USED
- 16) INSTALL 8" X 6" TEE PER UDACS PLT. 31

CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

Paula Kennedy 1/10/19
SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION

Shane Orr

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2-6-14
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

Scott Brown 1/16/11
CITY OF LAS VEGAS FIRE DEPARTMENT
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN
APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY
LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

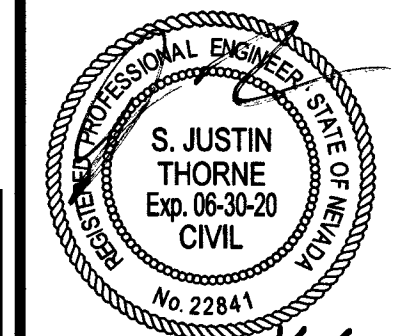
ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 382-8644 FAX: (702) 362-3233



**CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION**

UTILITY PLAN 3



DATE:	1/9/2019
SCALE:	1"=30'

JOB NO:		ADV-17-086	
DESIGNED BY:	BP	CHECKED BY:	SJT
SHEET NAME:		UT3	
SHEET NUMBER:		18 OF 20	
—		PW18-18639	
107X5080		110-0004	

PROJ#:135691A QS:125-30-NE

Clark County Public Works ACCEPTED	
BY: _____	DATE: _____
ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS OR THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.	

CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. ANY ITEMS TO BE RETURNED TO CLARK COUNTY TRAFFIC OPERATIONS SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD. THE TRANSMITTAL FORM SHALL INCLUDE THE ASSOCIATED PROBLEM, THE LOCATION OF THE ITEMS, THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL (702) 455-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.

Avoid overhead power
line contact. it's costly

Ca
before yo
Overhea
1-702-227-292

Diagram illustrating various traffic signs and their dimensions:

- STOP Sign (R1-1):** Dimensions 36" X 36" PER NOTE A.
- STREET NAME Sign (D-1):** Dimensions 9" X 12" PER NOTE A.
- ANY TIME Sign (B7C-1A):** Dimensions 18" X 24".
- Diagonal Striped Sign (CM3-R):** Dimensions 12" X 36".
- One-Way Sign (W3-1):** Dimensions 36" X 36" PER NOTE L.

Carl Davis 1/16/11
CITY OF LAS VEGAS FIRE DEPARTMENT
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN
APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY
LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

SCALE: 1" = 30'

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)		YES	CONNECT TO EX.
		NO	INSTALL A NEW SERVICE PEDESTAL

SERVICE PEDESTAL LOCATION: SOUTHWEST CORNER OF W. CENTENNIAL PKWY & N. FORT APACHE RD. (ADDRESS: 6397 N. FT. APACHE RD.)

CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE)

DATE OF CAPACITY VERIFICATION: MIKE PERRY - N/A

ENGINEER OF THE OFFSITE PLANS: JUSTIN S. THORNE, P.E.

PERSON WHO DID THE CALCULATIONS: JUSTIN S. THORNE, P.E.

CONSULTING ENGINEERING FIRM: TANEY ENGINEERING

CAPACITY CALCULATIONS

1.	CIRCUIT CAPACITY		60.0 AMPS
2.	MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48.0 AMPS
3.	EXISTING CIRCUIT LOAD (ENTER IF NEW)		3.5 AMPS
4.	AVAILABLE (2 MINUS 3)		44.5 AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT		STLTS	
5.	NUMBER OF PROPOSED STREETS FOR 60' x 105' 2" W/L		0 AMPS
6.	NUMBER OF PROPOSED STREETS FOR 100' x 125' 2" W/L	2	3.5 AMPS
7.	TOTAL PROPOSED ADDITIONAL LOAD (5H)		3.5 AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)			41 AMPS

- A** INSTALL 36" R1-1 "STOP" SIGN W/ (2) 9" D-3 "STREET NAME" SIGNS
- B** INSTALL 100' ROW LED STLT PER QPL PER CCAUSD 300.53, 302.S2, 314, 320, & 321
- C** PAINT CURB RED 15' EACH SIDE OF HYDRANT
- D** INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER
- E** INSTALL 4" PVC F.A.S.T. CONDUIT
- F** INSTALL 1 1/4" STLT CONDUIT W/ (2) NO. 4 AND (1) NO. 8 THW-2 OR XHHW-2 COPPER CONDUCTORS
- G** INSTALL P30 PULL BOX WITH FIBER OPTICS INSCRIBED ON LID FOR F.A.S.T. CONDUIT
- H** INSTALL 3 1/2" PULL BOX PER CCAUSD NO. 705
- I** STUB AND CAP STREETLIGHT CONDUIT AND F.A.S.T. CONDUIT 5' PAST PROPERTY LINE
- J** INSTALL 4" WIDE WHITE EDGE LINE
- K** INSTALL TYPE 2 CENTERLINE PER CCAUSD NO. 244
- L** INSTALL 36" X 36" W3-1 "STOP AHEAD" SIGN
- M** INSTALL R7-1A "NO PARKING ANYTIME" SIGN
- N** INSTALL OM3-R @ 25' O.C.
- O** PAINT CURB RED AROUND CUL-DE-SAC PER IFC SECTION 503.3

SIGHT VISIBILITY ZONES (SVZ)
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SVZ UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24" IN HEIGHT FROM THE ADJACENT TOP OF CURB, OR 27" FROM THE TOP OF ADJACENT ASPHALT WHERE NO CURB EXISTS. (CAUSAUD 201)

[illegible]

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89120

TANEY & ENGINEERING
6030 S. JONES BOULEVARD
(702) 365-8588 FAX: 365-8589
LAS VEGAS, NV 89129

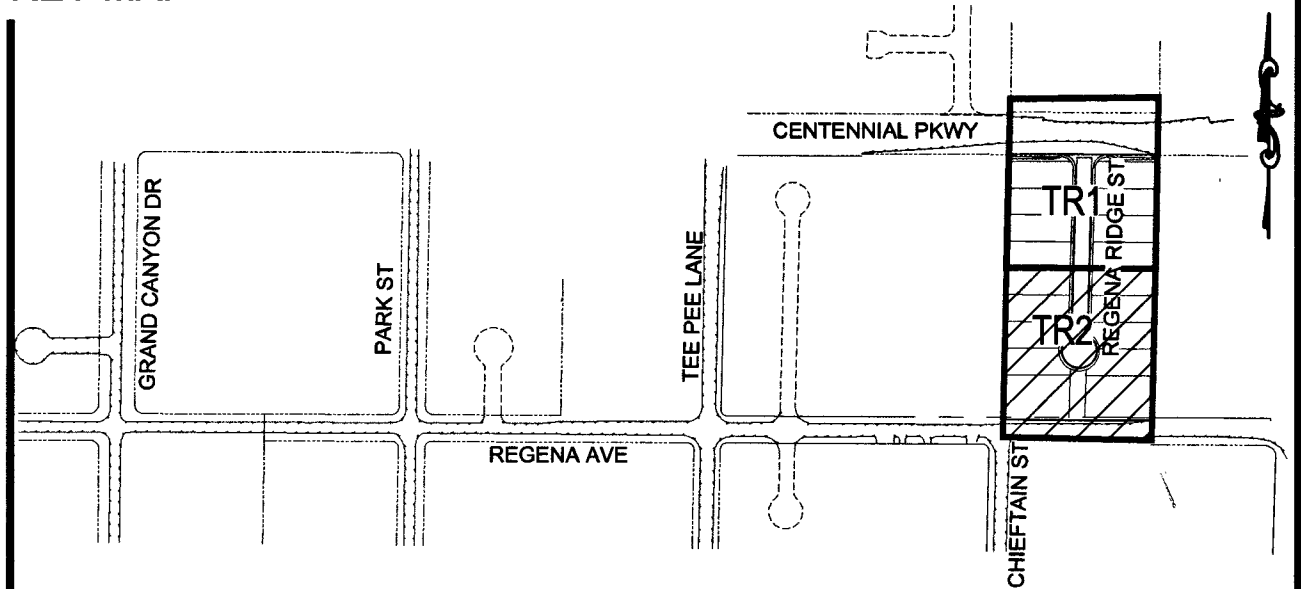


**CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION**

TRAFFIC PLAN 1

A circular professional engineer seal for the State of Maryland. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF MARYLAND" at the bottom. The inner circle contains the name "S. JUSTIN THORNE", the expiration date "Exp. 06-30-20", and the discipline "CIVIL". The seal number "No. 22881" is printed below the inner circle. A signature is written across the seal.

107Y5089 118-0234



SCALE: 1" = 30'

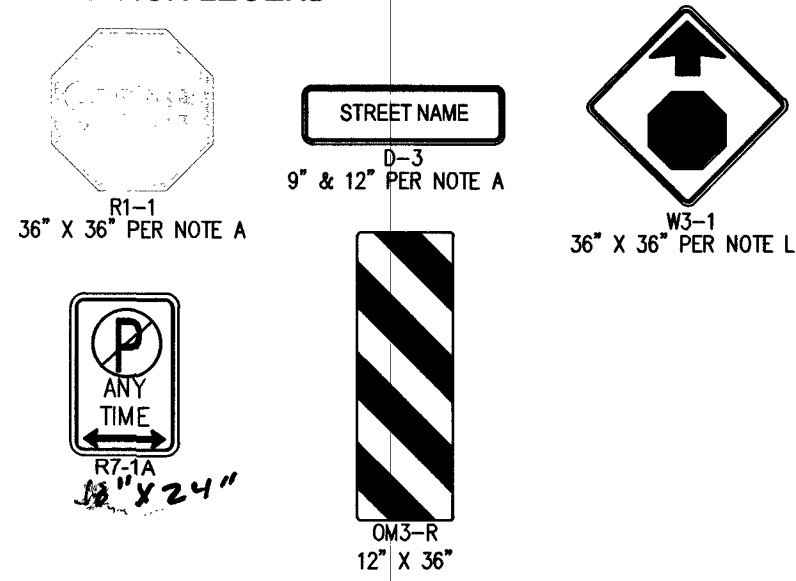
A horizontal graphic scale bar with alternating black and white segments. The segments are labeled from left to right: 30', 15', 30', 60', and 90'. The total length of the bar represents 90 feet.

CONSTRUCTION NOTES

- | | |
|----------|--|
| A | INSTALL 36" R1-1 "STOP" SIGN W/ (2) 9" D-3 "STREET NAME" SIGNS |
| B | INSTALL 100' ROW LED STLT PER QPL PER CCAUSD 300 S3, 302.S2, 314, 320, & 321 |
| C | PAINT CURB RED 15' EACH SIDE OF HYDRANT |
| D | INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER |
| E | INSTALL 4" PVC F.A.S.T. CONDUIT |
| F | INSTALL 1 1/4" STLT CONDUIT W/ (2) NO. 4 AND (1) NO. 8 THW-2 OR XHHW-2 COPPER CONDUCTORS |
| G | INSTALL P30 PULL BOX WITH FIBER OPTICS INSCRIBED ON LID FOR F.A.S.T. CONDUIT |
| H | INSTALL 3 1/2" PULL BOX PER CCAUSD NO. 705 |
| I | STUB AND CAP STREETLIGHT CONDUIT AND F.A.S.T. CONDUIT 5' PAST PROPERTY LINE |
| J | INSTALL 4" WIDE WHITE EDGE LINE |
| K | INSTALL TYPE 2 CENTERLINE PER CCAUSD NO. 244 |
| L | INSTALL 36" X 36" W31 "STOP AHEAD" SIGN |
| M | INSTALL R7-1A "NO PARKING ANYTIME" SIGN |
| N | INSTALL OM3-R @ 25' O.C. |
| O | PAINT CURB RED AROUND CUL-DE-SAC PER IFC SECTION 503.3 |

SIGHT VISIBILITY ZONES (SVZ)
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SVZ UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24" IN HEIGHT FROM THE ADJACENT TOP OF CURB, OR 27" FROM THE TOP OF ADJACENT ASPHALT WHERE NO CURB EXISTS. (CCAU5D 201)

TRAFFIC SIGN LEGEND



UTILITY DISCLAIMER

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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST
OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2818.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION

Paul Blanton 1/14/19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN
APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY
LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

Clark County Public Works
ACCEPTED

BY: Cashel [Signature] 3/25/19 DATE _____

ACCEPTANCE OF THESE PLANS SHALL NOT BE
CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF
ANY VIOLATION OF STATE, COUNTY OR FEDERAL LAW
SPECIFICATIONS OR THE MANUAL OF UNIFORM TRAFFIC
CONTROL DEVICES.

NOTE: CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TREATMENTS. THE CONTRACTOR SHALL ADVISE THE TRAFFIC ENGINEERING DIVISION OF ANY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS, SIGNAGE, OR PAVEMENT TREATMENTS. ALL PAVING AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

Call before you Dig
Avoid cutting underground
utility lines. It's costly.

CALL
811
OR
1-800-227-2600

Avoid overhead power
line contact. It's costly.

Call
before you
Overhead
1-702-227-2929

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129

(702) 365-8588 FAX:

ANEY & ENGINEERING

6030 S. JONES BOULEVARD
LAS VEGAS, NV 89146

LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233



**CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION**

TRAFFIC PLAN 2

DATE: 1/9/2019

SCALE: 1"=30'

JOB NO: **ADN 15 000**

ADV-17-086

DESIGNED BY: BP	CHECKED BY: SJT
---------------------------	---------------------------

SHEET NAME: **TR2**

IR2

SHEET NUMBER: 20 20

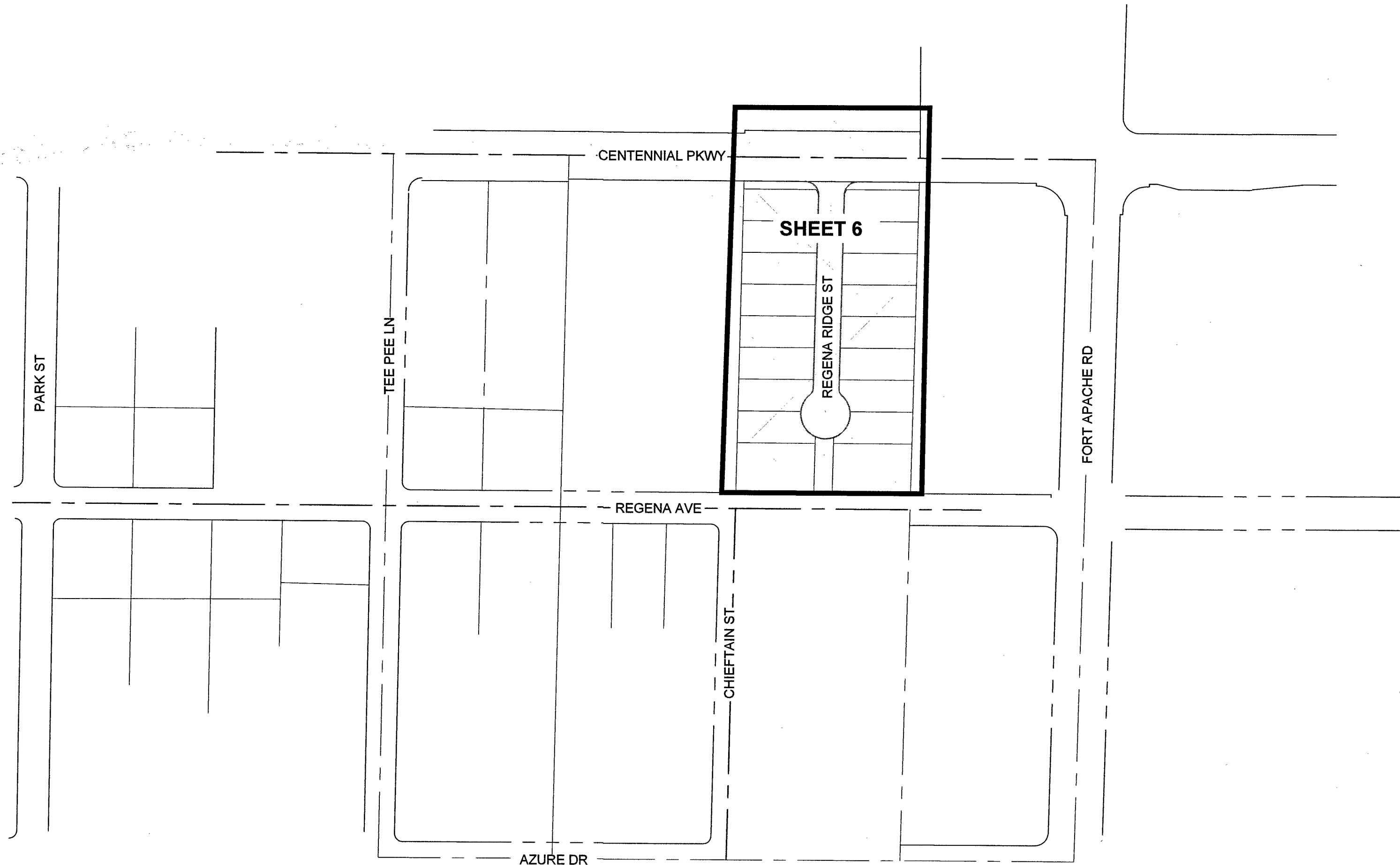
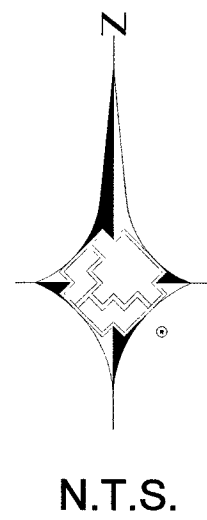
20 OF 20

— PW18-18639

107Y5089 L18-02344

LEGEND

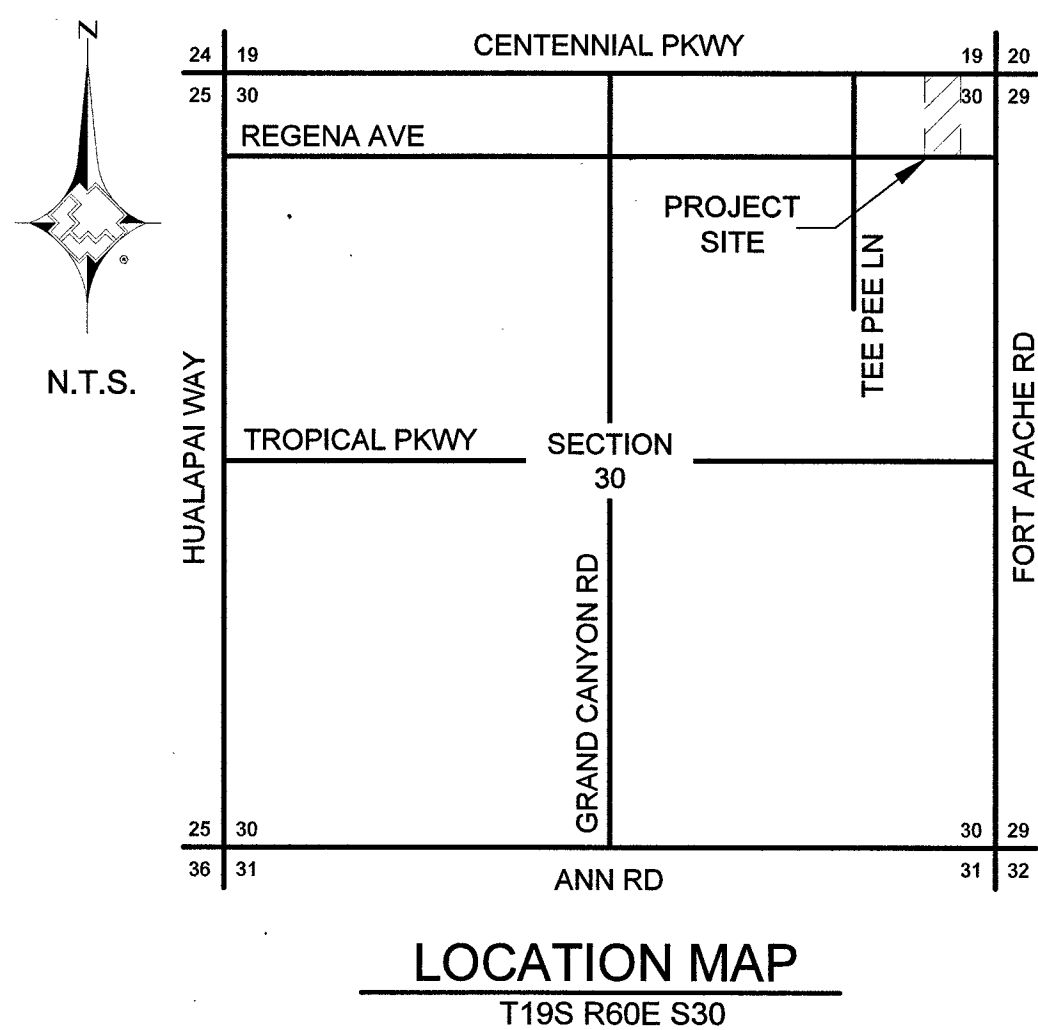
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
GAS LINE TO BE ABANDONED	
PROPOSED GAS MAIN	
PROPOSED GAS SERVICE	
EXISTING EASEMENT	
ROW LINE	
PROPERTY LINE	
STREET CENTERLINE	
EDGE OF PAVEMENT	
CABLE LINE - UNDERGROUND	
ELECTRIC - OVERHEAD	
ELECTRIC - UNDERGROUND	
FIBER OPTIC - UNDERGROUND	
PHONE - OVERHEAD	
PHONE - UNDERGROUND	
RECLAIMED WATER	
SEWER	
STORMWATER	
WATER	
UTILITY PEDESTALS	
FIRE HYDRANT	
MANHOLE	
WATER VALVE	
SURVEY MONUMENT	
POWER POLE	
GAS FLOW ARROW	



SHEET INDEX MAP

SHEET INDEX

- 1 COVERSHEET
- 2 SIGNATURE SHEET
- 3 - 5 NOTES AND STANDARD DETAILS
- 6 DESIGN SHEET

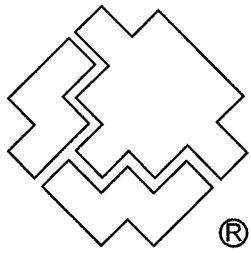


City of Las Vegas

Total footage located in Public ROW 15'

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV
EASEMENTS ONLY. OBTAINING PERMISSION OR
EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY
IS THE RESPONSIBILITY OF THE UTILITY.

Approval SEE COVER OF CIVIL PLAN Date _____



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CUSTOMERS 18

REVISIONS				D_VALLEY_WIDE		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	DAVID FRIEDLANDER	PHONE: 702-365-2203
				SYSTEM MAOP:	43	HP SERVICE ☐	3793287	ACCOUNT REP.	TONY VANCHIERI	PHONE: 702-802-9486
				SYSTEM MOP:	43	DISTRIBUTION ☒		PROJECT CONTACT	PATTY CRAWFORD	PHONE: 702-601-7497
				SYSNAME2		FEEDER ☐	RELATED WR NO.S	SHEET NO.	1 OF 6	SCALE N.T.S.
				PERMIT INFORMATION	ISOLATION AREA	LOCATION		DWN. BY	SEI	CHKD. BY
				CITY OF LAS VEGAS	ISO_21_DIST_024	T19S R60E S30 M.D.M.				
				ATLAS OR TILE	x582y554	SYSTEM MAOP:				
						SYSTEM MOP:				
						TRANS. BY DEF ☐	N/A			
						TRANS > 20% ☐				
								CENTENNIAL & FORT APACHE		
								L18-02344		
								107Y 5089		

PRESSURE TEST PERFORMED BY AND VERIFIED BY SIGNATURES

I HAVE **PERFORMED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.
I HAVE **VERIFIED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.

PRESSURE TEST # _____ PERFORMED BY _____ DATE _____

SWG VERIFIED BY _____ DATE _____

PURGE PLAN PERFORMED BY SIGNATURES

PURGE PLAN WAS COMPLETED IN ACCORDANCE WITH THE OPERATIONS MANUAL GUIDELINES:

PERFORMED BY _____ DATE _____ SHEET# _____

LOCATION _____

PIPE JOINER VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ PJO# _____

2ND VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT AND MECHANICAL JOINTS THAT HAVE BEEN PERFORMED (INSPECTION OF FINAL JOINT ON PLASTIC PIPE ONLY)

NAME _____ PJO# _____

CONSTRUCTION

INSPECTOR _____ PJO# _____

FOREMAN _____ PJO# _____

REVIEWED BY _____ PJO# _____

<INPUT COMPANY NAME>

AS-BUILT DRAWING-PRESSURE TEST DATA TEST # _____

DESCRIPTION:

TEST POINTS _____

PIPE DIA. _____

TOTAL LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

PRESSURE (ALL TESTS) (START) _____ (STOP) _____

PRESSURE (CHART ONLY) (MIN) _____ (MAX) _____

TIME (START) _____ (STOP) _____

DATE (START) _____ (STOP) _____

INTERMEDIATE LEAK TEST YES ☐ NO ☐

LEAK SURVEY WR# (NATURAL GAS TEST ONLY) _____

ANY LEAKS OR FAILURES ON A TEST YES ☐ NO ☐

IF YES, NOTE THE LEAKS AND FAILURES AND THEIR DISPOSITION: _____

PERFORMED BY (PRINT NAME AND EMPLOYEE # OR CONTRACTOR #): _____

TEST MEDIUM

☐ AIR ☐ GAUGE

☐ NITROGEN ☐ CHART

☐ WATER ☐ SOAP

☐ NATURAL GAS

<INPUT COMPANY NAME>

AS-BUILT DRAWING-PRESSURE TEST DATA TEST # _____

DESCRIPTION:

TEST POINTS _____

PIPE DIA. _____

TOTAL LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

PRESSURE (ALL TESTS) (START) _____ (STOP) _____

PRESSURE (CHART ONLY) (MIN) _____ (MAX) _____

TIME (START) _____ (STOP) _____

DATE (START) _____ (STOP) _____

INTERMEDIATE LEAK TEST YES ☐ NO ☐

LEAK SURVEY WR# (NATURAL GAS TEST ONLY) _____

ANY LEAKS OR FAILURES ON A TEST YES ☐ NO ☐

IF YES, NOTE THE LEAKS AND FAILURES AND THEIR DISPOSITION: _____

PERFORMED BY (PRINT NAME AND EMPLOYEE # OR CONTRACTOR #): _____

TEST MEDIUM

☐ AIR ☐ GAUGE

☐ NITROGEN ☐ CHART

☐ WATER ☐ SOAP

☐ NATURAL GAS

<INPUT COMPANY NAME>

AS-BUILT DRAWING-PRESSURE TEST DATA TEST # _____

DESCRIPTION:

TEST POINTS _____

PIPE DIA. _____

TOTAL LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

PRESSURE (ALL TESTS) (START) _____ (STOP) _____

PRESSURE (CHART ONLY) (MIN) _____ (MAX) _____

TIME (START) _____ (STOP) _____

DATE (START) _____ (STOP) _____

INTERMEDIATE LEAK TEST YES ☐ NO ☐

LEAK SURVEY WR# (NATURAL GAS TEST ONLY) _____

ANY LEAKS OR FAILURES ON A TEST YES ☐ NO ☐

IF YES, NOTE THE LEAKS AND FAILURES AND THEIR DISPOSITION: _____

PERFORMED BY (PRINT NAME AND EMPLOYEE # OR CONTRACTOR #): _____

TEST MEDIUM

☐ AIR ☐ GAUGE

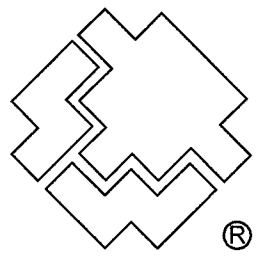
☐ NITROGEN ☐ CHART

☐ WATER ☐ SOAP

☐ NATURAL GAS



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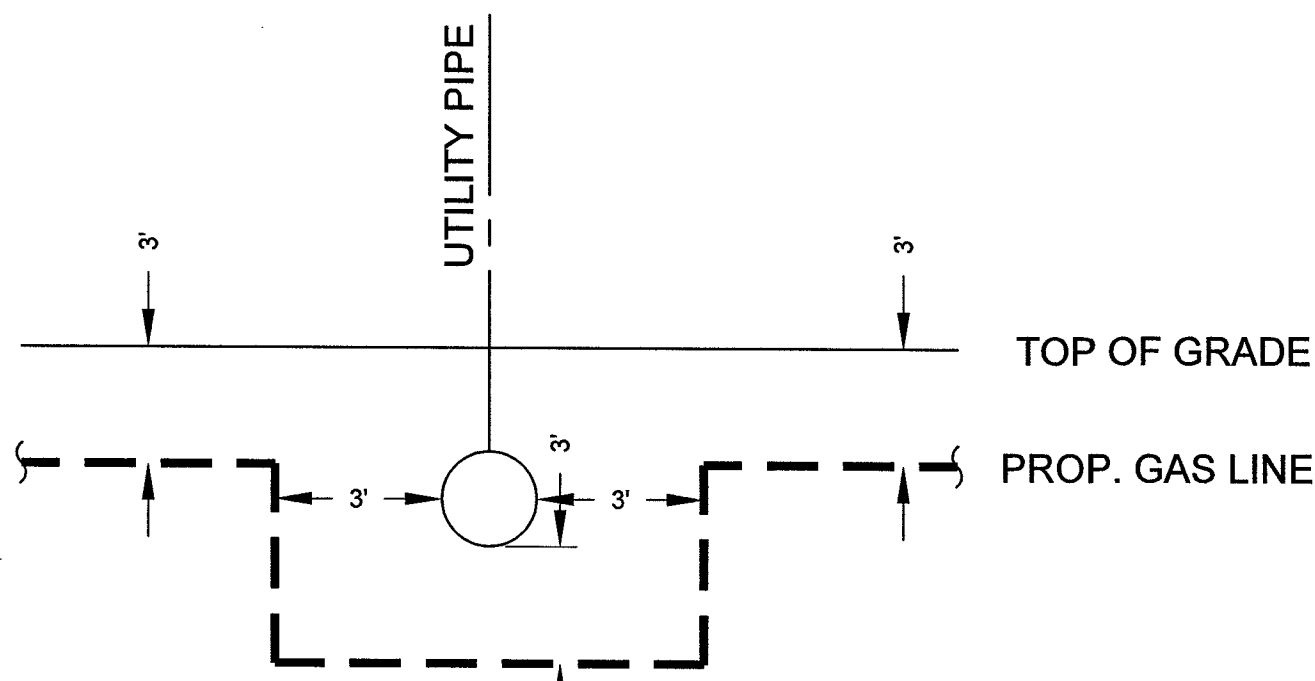
REVISIONS					D_VALLEY_WIDE		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	DAVID FRIEDLANDER	PHONE: 702-365-2203	
					SYSTEM MAOP: 43		HP SERVICE ☐	3793287	ACCOUNT REP. TONY VANCHIERI		PHONE: 702-802-9486	
					SYSTEM MOP: 43		DISTRIBUTION ☒		PROJECT CONTACT PATTY CRAWFORD		PHONE: 702-6017497	
NO.	DESCRIPTION	BY	DATE	APPVD.	SYSNAME2		FEEDER ☐	RELATED WR NO.S	SHEET NO. 2 OF 6		SCALE N.T.S.	DATE 03/19/2019
PERMIT INFORMATION		ISOLATION AREA		LOCATION	ATLAS OR TILE	SYSTEM MAOP:	TRANS. BY DEF ☐	N/A	CENTENNIAL & FORT APACHE			
CITY OF LAS VEGAS 02-0200		ISO_21_DIST_024		T19S R60E S30 M.D.M.	x582y554	SYSTEM MOP:	TRANS > 20% ☐					

L18-02344

107Y5089

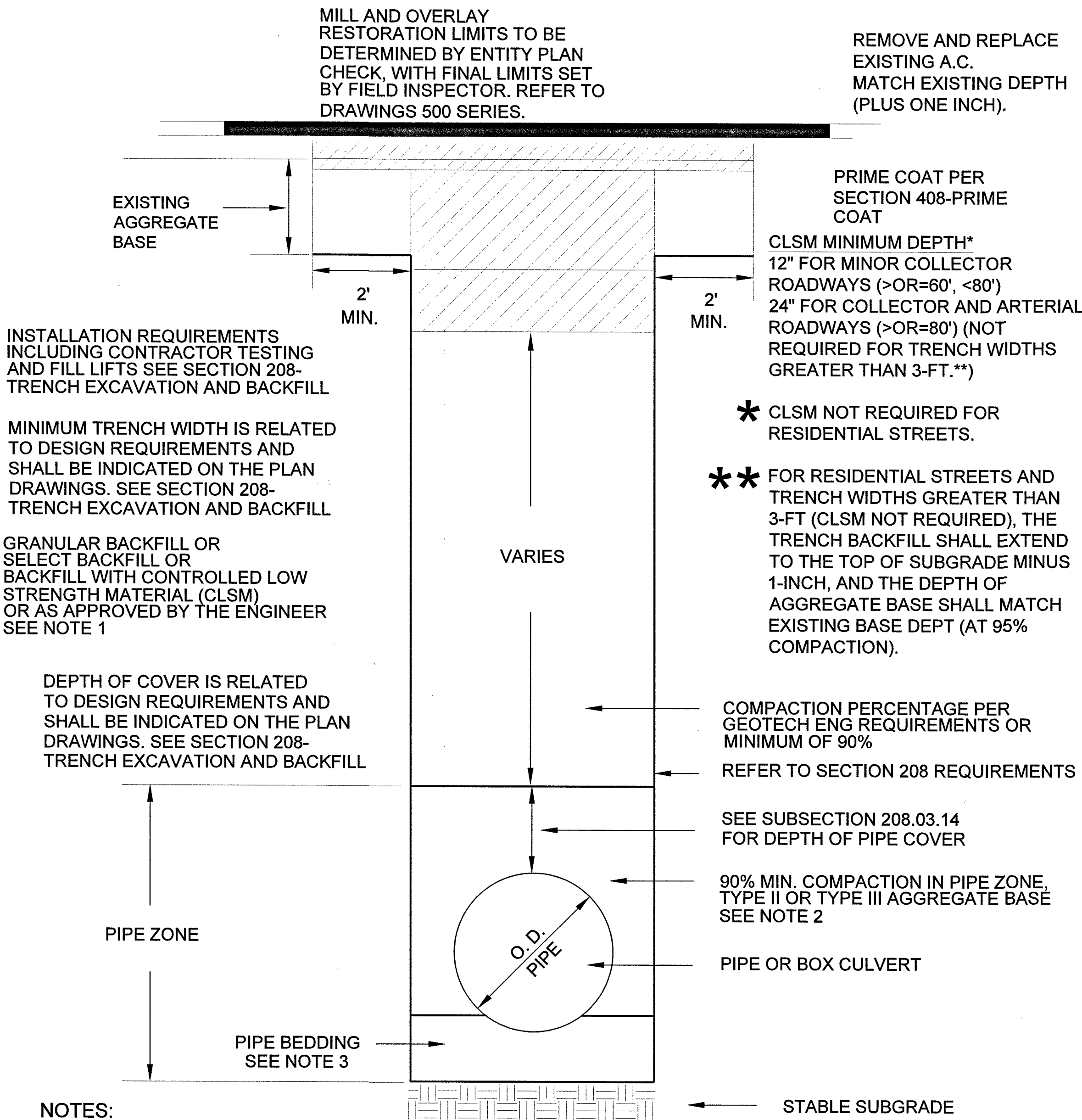
GENERAL NOTES:

- SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
- ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS..
- DO NOT SCALE THIS DRAWING.
- CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
- GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
- ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
- TRENCH IS TO BE EXCAVATED TO THE DEPTH AND WIDTH AS INDICATED ON THE TRENCH DETAIL(S).
- CONTACT ENGINEERING FOR BYPASS INFORMATION.
- ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED..
- ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
- REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
- TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503. AND UNIFORM STANDARD SPEC SECTION 208.
- MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60PSIG ARE:
 - MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.
 - ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.
 - CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.



TYPICAL UTILITY CROSSING DETAIL
NOT TO SCALE

DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
601'	2" PE8100
305'	1" PE8100



NOTES:

- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
- TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
- CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
- LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS:

AA ALDYL-A PIPE
ABND ABANDONED
AC ASPHALTIC CONCRETE
AC# ACCELERATED CONSTRUCTION
ACP ASBESTOS CEMENT PIPE
APN ASSESSOR PARCEL NUMBER

BLVD BOULEVARD
BM BENCHMARK
BO BLOW OFF
BTU BRITISH THERMAL UNIT

CIP CAST IRON PIPE
CL CENTERLINE
CMP CORRUGATED METAL PIPE
CP CATHODIC PROTECTION

D INSIDE DIAMETER
DDCA DESIGN DATA COLLECTION APPLICATION
DET DETAIL
DIP DUCTILE IRON PIPE
DIA DIAMETER
DIMP DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM
DP DESIGN PRESSURE
DWG DRAWING

EFV EXCESS FLOW VALVE
EG EXISTING GRADE
ELEC ELECTRICAL
ELEV ELEVATION
EMS ELECTRONIC MARKING SYSTEM
E.P END POINT
EPR ELECTRONIC PRESSURE RECORDERS
ESMT EASEMENT
EX EXISTING

FERC FEDERAL ENERGY REGULATORY COMMISSION
FH FIRE HYDRANT

GIR GAS INFRASTRUCTURE REPLACEMENT
GPR GAS PRESSURE REGULATOR

HCA HIGH CONSEQUENCE AREA
HDD HEATING DEGREE DAY
HDPE HIGH DENSITY POLYETHYLENE PIPE
HP HIGH PRESSURE
HOP HISTORIC OPERATING PRESSURE
HVTT HIGH VOLUME TAPPING TEE

IN INCH(ES)
IPS IRON PIPE SIZE

JT JOINT TRENCH

MAOP MAXIMUM ALLOWABLE OPERATING PRESSURE
M&C MEASUREMENTS & CONTROL
MCFH THOUSAND CUBIC FEET PER HOUR
MH MANHOLE
MOP MAXIMUM OPERATING PRESSURE
MP MANUFACTURER'S PRESSURE RATING
MSA METER SET ASSEMBLY
MVP MAPPING VERIFICATION PROCEDURE

NAP NOT A PART

NTSB NATIONAL TRANSPORTATION SAFETY BOARD
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OH OVERHEAD
OHE OVERHEAD ELECTRIC

P POWER
PAOP POTENTIAL ALLOWABLE OPERATING PRESSURE
PCC PORTLAND CEMENT CONCRETE
PE POLYETHYLENE PIPE
PH POT HOLE
PHMSA PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION

PL PROPERTY LINE
PIC POTENTIAL IMPACT CIRCLE
PLS PRESSURE LIMITING STATION
P.O.B POINT OF BEGINNING
PP POWER POLE
PROP PROPOSED
PQF PREQUALIFIED FITTING
PSIG POUNDS PER SQUARE INCH (GAUGE)
PVC POLYVINYL CHLORIDE
PUE PUBLIC UTILITY EASEMENT

RC REINFORCED CONCRETE
RCP REINFORCED CONCRETE PIPE
ROW RIGHT OF WAY

SCADA SUPERVISORY CONTROL AND DATA ACQUISITION
SD STORM DRAIN
SDMH STORM DRAIN MANHOLE
SDR STANDARD DIMENSION RATIO
SF SQUARE FOOT
SHT SHEET
SLSV SERVICE LINE SHUT-OFF VALVE
SMYS SPECIFIED MAXIMUM YIELD STRENGTH

SS SANITARY SEWER
SST STAINLESS STEEL
ST STREET
STA STATION
STL STEEL
SWG SOUTHWEST GAS

TDS TEST DATA SHEET
TEL TELEPHONE
TB THRUST BLOCK
TOP TOP OF PIPE
TP TEST POINT
TS TECHNICAL SERVICE NOTE
TRIMP TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
TYP TYPICAL

U.E UTILITY EASEMENT
UGE UNDERGROUND ELECTRIC
UOC UNUSUAL OPERATING CONDITION
USD UNIFORM STANDARD DRAWING
UGT UNDERGROUND TELEPHONE

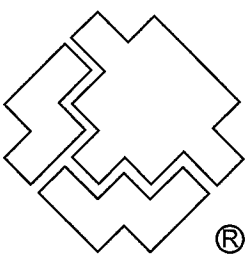
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
VG VALLEY GUTTER
VSP VINTAGE STEEL PIPE

W WATER
WMS WORK MANAGEMENT SYSTEM
WR WORK REQUEST
WT WALL THICKNESS
WV WATER VALVE

YD YARD(S)



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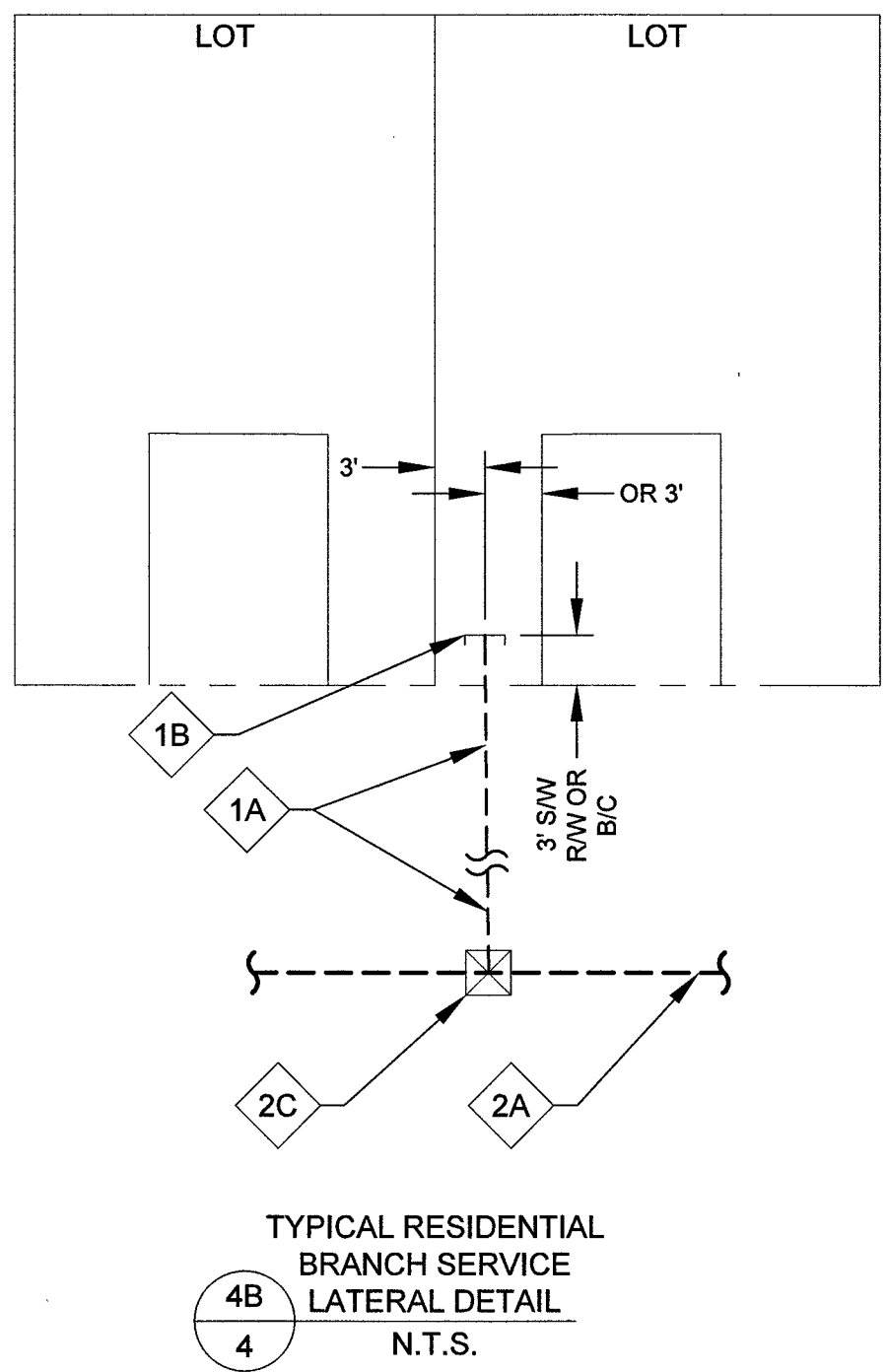
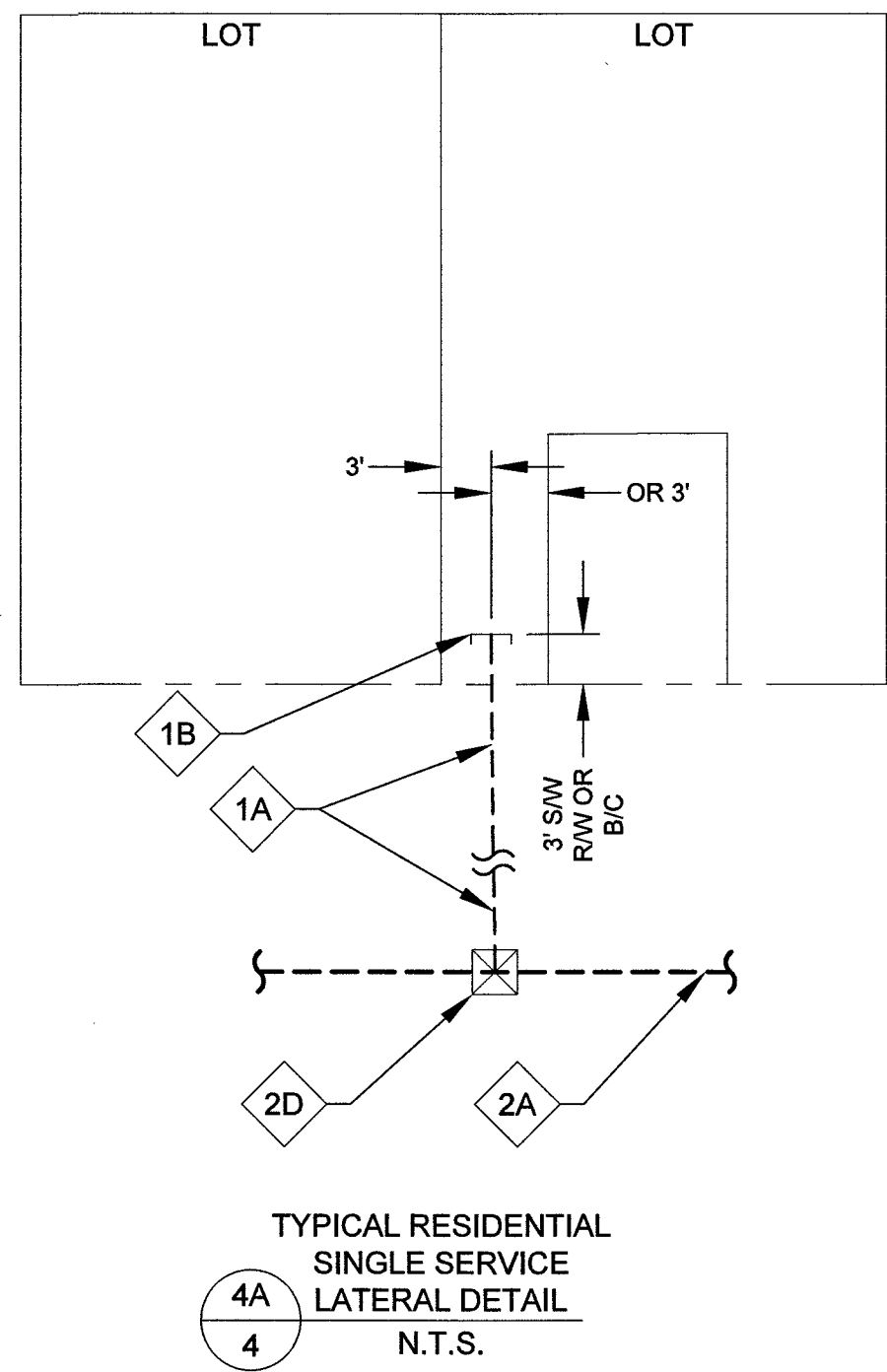
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						SYSTEM MAOP:	43	HP SERVICE	☐	3793287	ACCOUNT REP.	TONY VANCHIERI		PHONE: 702-802-9486				
						SYSTEM MOP:	43	DISTRIBUTION	☒			PROJECT CONTACT	PATTY CRAWFORD		PHONE: 702-601-7497			
												SHEET NO.	3 OF 6	SCALE	N.T.S.	DATE 03/19/2019		
NO.	DESCRIPTION					BY	DATE	APPVD.				DWN. BY	SEI	CHKD. BY	DF	APPVD. BY BWF		
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		SYSNAME2		FEEDER	☐	RELATED WR NO.S		CENTENNIAL & FORT APACHE				
CITY OF LAS VEGAS 02-0200		ISO_21_DIST_024		T19S R60E S30 M.D.M.		x582y554		SYSTEM MAOP:		TRANS. BY DEF	☐	N/A						
								SYSTEM MOP:		TRANS > 20%	☐							

CENTENNIAL & FORT APACHE

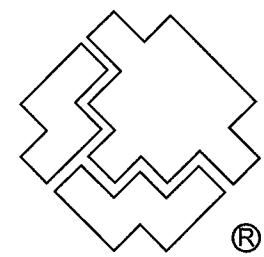
118-02344

107/5089



2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	0'	0'	100-5101	2" PE8100 MAIN	N/A	N/A
2C	8	0'	160-8394	2" X 1" PE TAPPING TEE W/1800 EFV	N/A	N/A
2D	2	0	160-8577	2" X 1" PE TAPPING TEE W/1200 EFV	N/A	N/A

1 1/4" AND BELOW, DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
1A	305'	0'	101-8526	1" PE SERVICE	N/A	N/A
1B	10	0'	850-8773	1" PE CAP	N/A	N/A

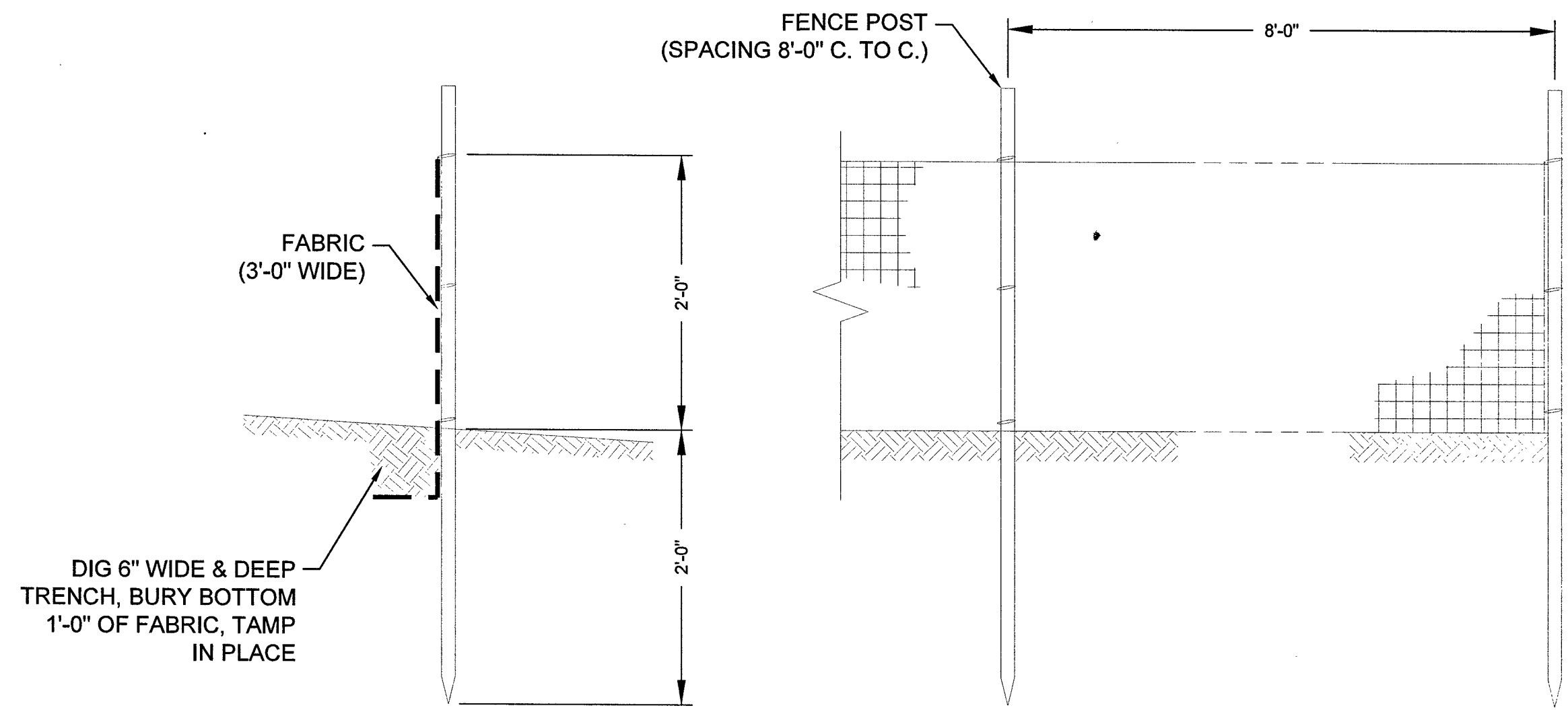


SOUTHWEST GAS CORPORATION

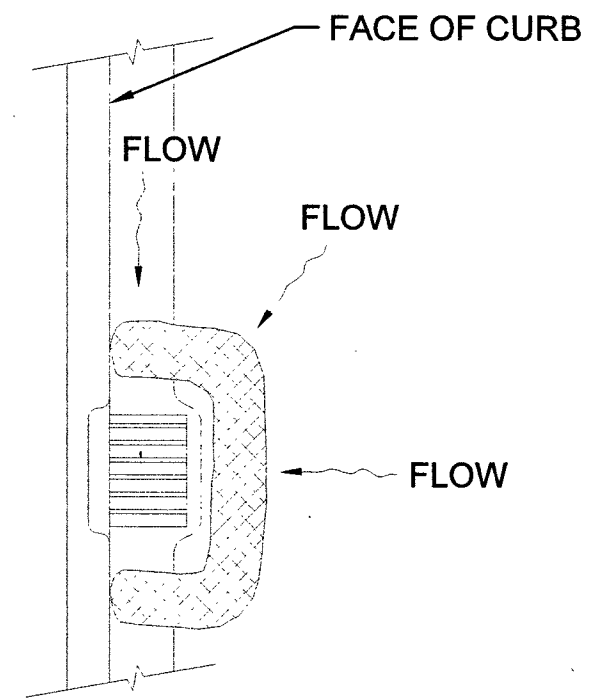
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						SYSTEM MOP:	43	DISTRIBUTION ☒		PROJECT CONTACT	PATTY CRAWFORD	PHONE: 702-601-7497	
										SHEET NO. 4 OF 6	SCALE N.T.S.	DATE 03/19/2019	
NO.	DESCRIPTION					BY	DATE	APPVD.		DWN. BY	SEI	CHKD. BY DF	APPVD. BY BWF
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		SYSNAME2		FEEDER ☐	RELATED WR NO.S	CENTENNIAL & FORT APACHE			
CITY OF LAS VEGAS 02-0200		ISO_21_DIST_024	T19S R60E S30 M.D.M.	x582y554		SYSTEM MAOP:		TRANS. BY DEF ☐					N/A
						SYSTEM MOP:		TRANS > 20% ☐					
													L18-02344

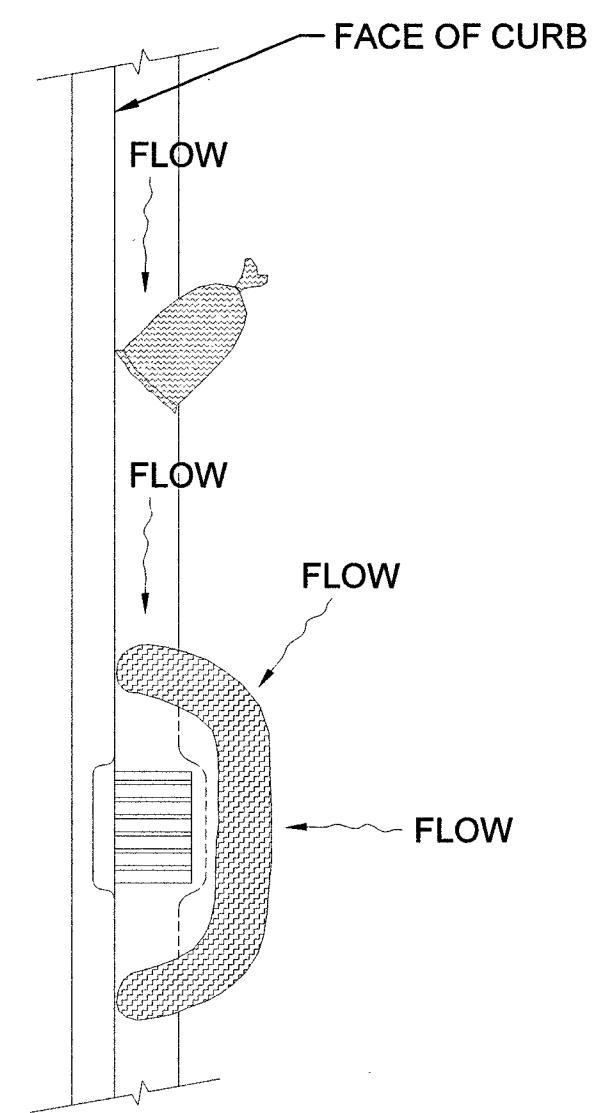
TYPICAL SWPPP BMP DETAILS



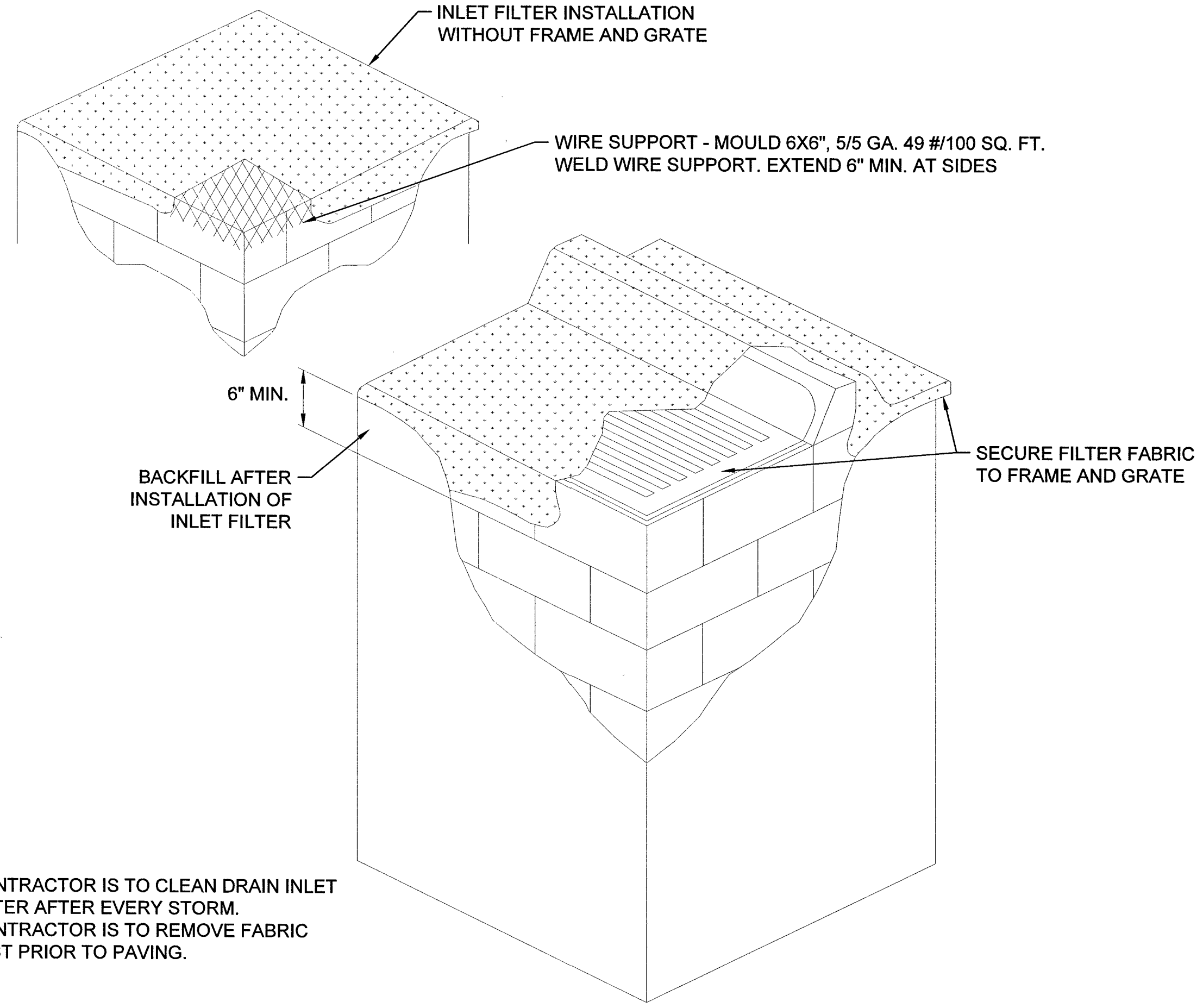
1 SILT FENCE
- N.T.S.



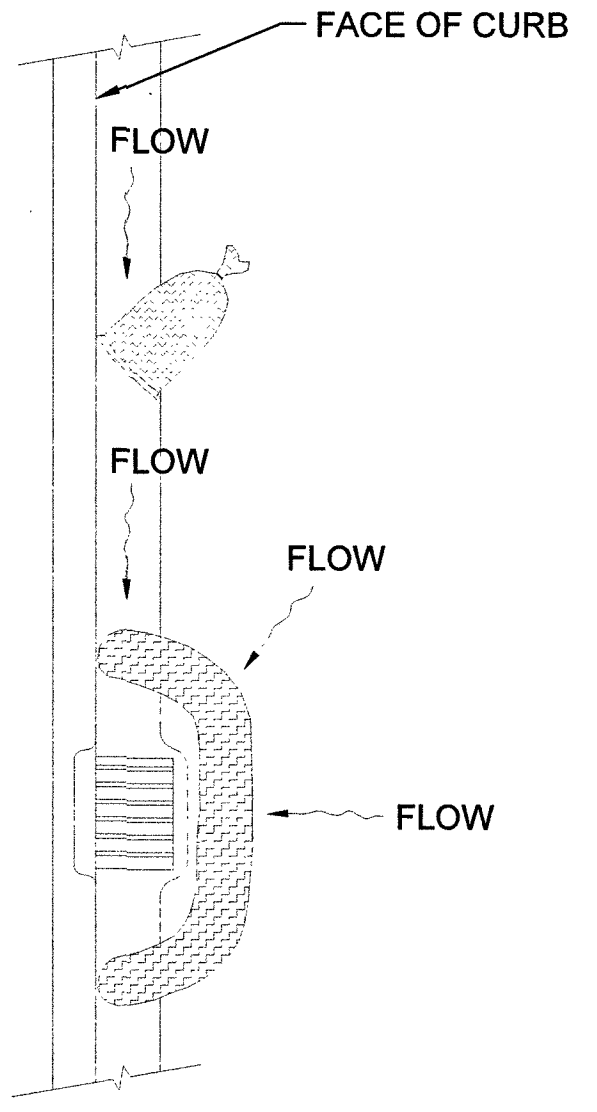
2 FIBER ROLL
- N.T.S.



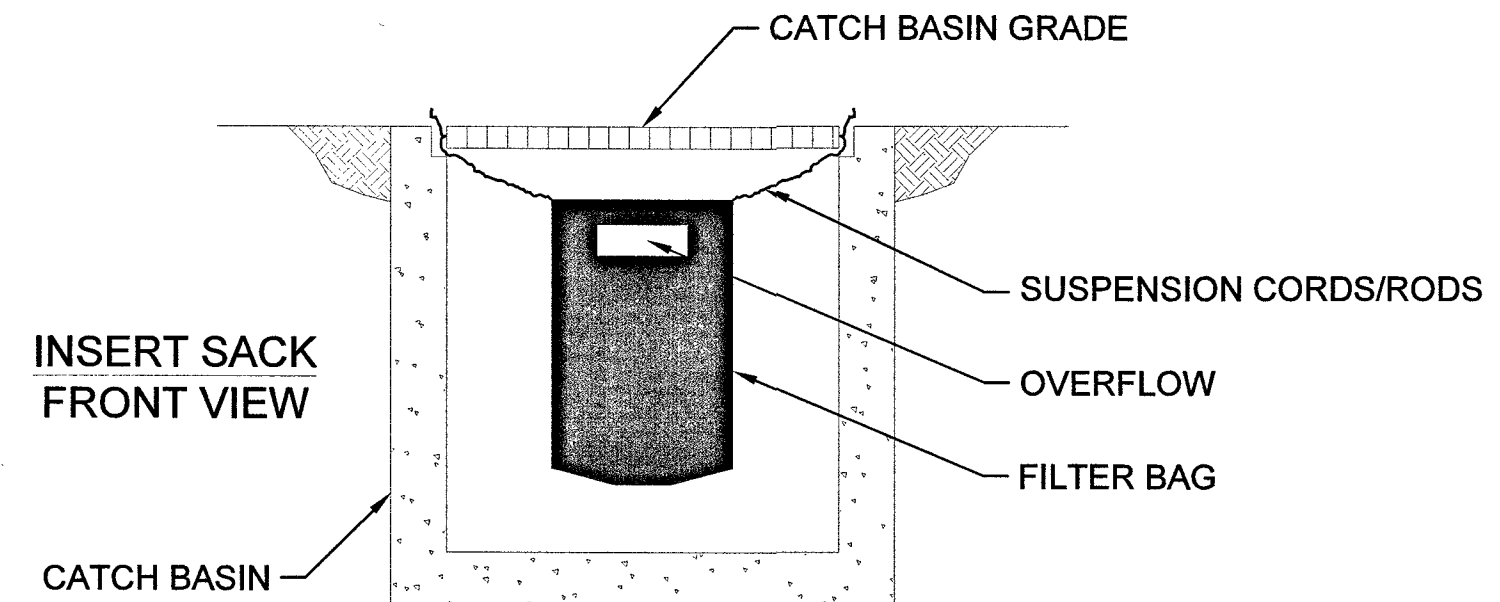
3 SAND BAG/ ROLL
- N.T.S.



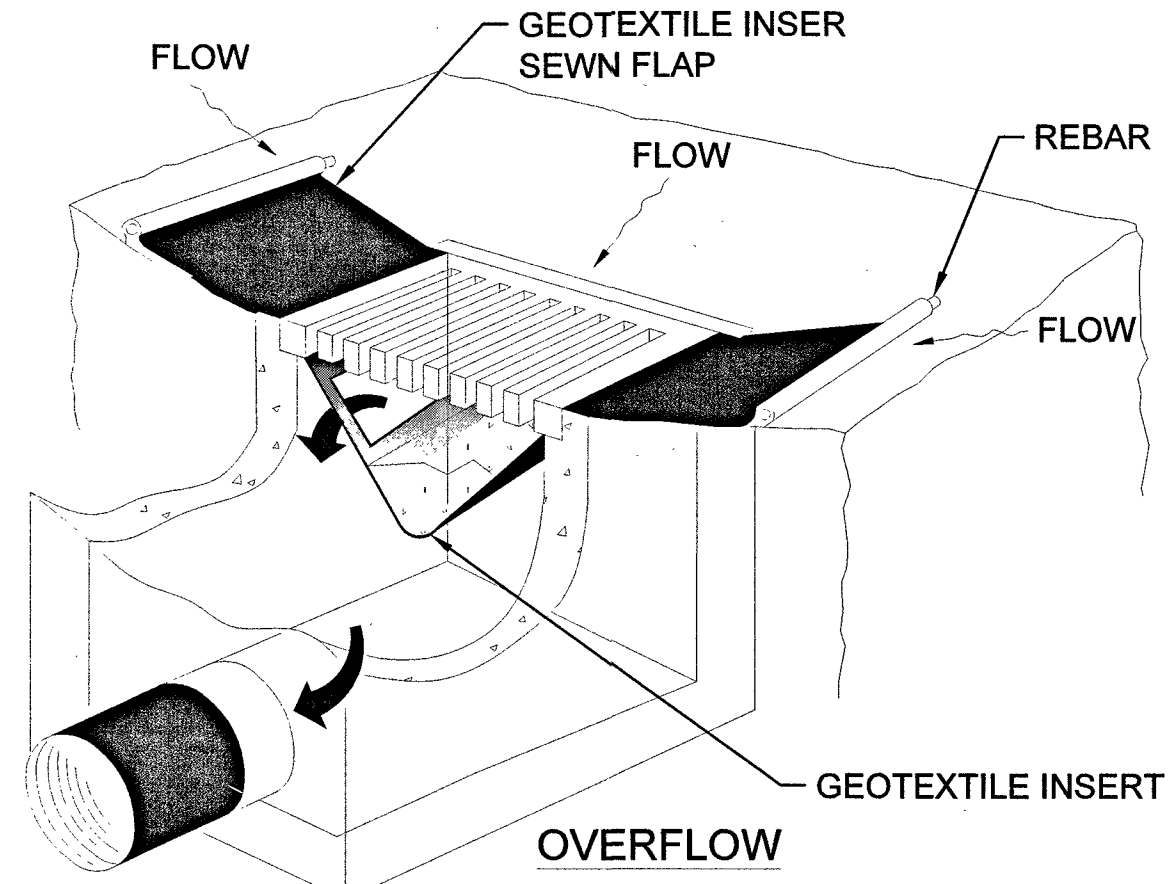
4 DRAIN INLET FILTER
- N.T.S.



5 GRAVEL BAG/ ROLL
- N.T.S.



INSERT SACK FRONT VIEW



NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

6 SEDIMENT FILTER BAG
- N.T.S.

SWPPP NOTES

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPS FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPS ON THIS SHEET DOT NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

- NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
 2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.

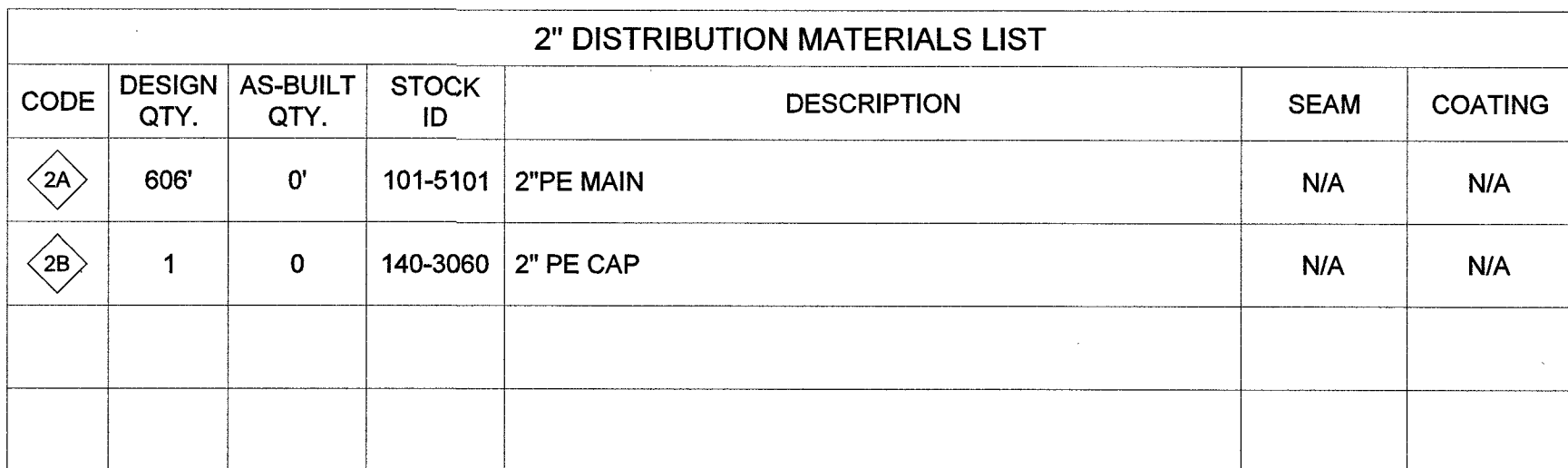
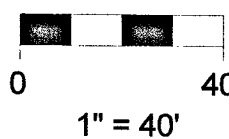


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						SYSTEM MOP: 43		DISTRIBUTION ☒				PROJECT CONTACT		PATTY CRAWFORD		PHONE: 702-601-7497		
NO.		DESCRIPTION				BY	DATE	APPVD.	FEEDER ☐		RELATED WR NO.S		SHEET NO. 5 OF 6		SCALE N.T.S.		DATE 03/19/2019	
									TRANS. BY DEF ☐		N/A		DWN. BY SEI		CHKD. BY DF		APPVD. BY BWF	
									TRANS > 20% ☐									
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		SYSNAME2				CENTENNIAL & FORT APACHE						
CITY OF LAS VEGAS 02-0200		ISO_21_DIST_024		T19S R60E S30 M.D.M.		x582y554		SYSTEM MAOP:										
								SYSTEM MOP:										



4" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
4A	1	0	160-8174	4" X 2" PE HIGH VOLUME TAPPING TEE	N/A	N/A

CONSTRUCTION NOTES	
1	RTC 503
2	TIE NEW 2" PE8100 TO EXISTING 4" PE8100



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REVISIONS						D_VALLEY_WIDE		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN		DAVID FRIEDLANDER		PHONE: 702-365-2203		
						SYSTEM MAOP: 43		HP SERVICE ☐		3793287		ACCOUNT REP.		TONY VANCHIERI		PHONE: 702-802-9486		
						SYSTEM MOP: 43		DISTRIBUTION ☒				PROJECT CONTACT		PATTY CRAWFORD		PHONE: 702-601-7497		
												SHEET NO. 6 OF 6		SCALE 1" = 40'		DATE 03/19/2019		
NO.		DESCRIPTION				BY	DATE	APPVD.			RELATED WR NO.S		DWN. BY SEI		CHKD. BY DF		APPVD. BY BWF	
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		SYSNAME2		FEEDER ☐		N/A		CENTENNIAL & FORT APACHE 118-02344 107x5089				
CITY OF LAS VEGAS 02-0200		ISO_21_DIST_024		T19S R60E S30 M.D.M.		x582y554		SYSTEM MAOP:		TRANS. BY DEF ☐								
								SYSTEM MOP:		TRANS > 20% ☐								

107 y 5089