

AC	AIR	D/D1, D2	DROP INLET
AC	ASPHALT CONCRETE, ACRE	DIA, Ø	DIAMETER
ACP	ASBESTOS CEMENT PIPE	DIP	DUCTILE IRON PIPE
ADDL	ADDITIONAL	DIST	DISTANCE
APN	ANGLE POINT	DR	DRIVE
APN	ASSESSOR'S PARCEL NUMBER	DS	DOWNSPOUT
APPROX	APPROXIMATELY	DTL	DETAIL
ASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DW	DRIVEWAY
		DWG	DRAWING
		E	EAST
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EOR	END CURB RETURN
AV	AVENUE	ELE/ELEC	ELECTRICAL
AVAR	AIR VALVE, AIR RELEASE ASSEMBLY	ELN	ELEVATION
AWWA	AMERICAN WATER WORKS ASSOCIATION	EP, EDP	EDGE OF PAVEMENT
BL	BACK OF CURB	ESMT	EASEMENT
BZ	BEGIN CURB RETURN	EVG	END VERTICAL CURVE
BC	BEGIN CURB OF LAND MANAGEMENT	EXT	EXTENSION
BLM	BULEVARD	EXT/EX	EXISTING
BLV	BENCHMARK	EXP	EXPANSION JUNT
BO	BLOW-OFF	FC	FACE OF CURB
BVCE	BEGIN VERTICAL CURVE ELEVATION	FFE	FINISH FLOOR ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION	FG	FINISH GRADE
BVP	BEGIN VERTICAL POINT	FI	FIRE HYDRANT
BW	BACK OF SIDEWALK	FL	FLOW LINE
C	CENTERLINE	FIBER OPTIC	FIBER OPTIC
C&G	CURB AND GUTTER	FRP	FIBERGLASS REINFORCED PLASTIC
CATV	UNDERGROUND CABLE TV	FS	FINISH SURFACE
CCM	CLARK COUNTY BENCH MARK	FT	FOOT/FEET
CCW	CLARK COUNTY PUBLIC WORKS	FTG	FOOTING
CCWV	CLOSED-CIRCUIT TELEVISION	FUT	FUTURE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	G	GAS
CE	COMMON ELEMENT	GA	GAGE, GUY ANCHOR
CFS	CUBIC FEET PER SECOND	GB	GRADE BREAK
CIP	CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE	GRD	GRADE, GROUND
CIPM	CURED-IN-PLACE MANHOLE	H, HGT	HEIGHT
CIPW	CURED-IN-PLACE PIPE	HOWL	HEADWALL
CIR	CIRCLE	HSL	HYDRAULIC GRADE LINE
CLR	CLAR OR CLEARANCE	HORIZ	HORIZONTAL
CLSM	CONTROLLED LOW STRENGTH MATERIAL	HP	HIGH POINT, HIGH PRESSURE
CLV	CITY OF LAS VEGAS	HPS	HIGH PRESSURE, SOUND
CMU	CORRUGATED METAL PIPE	INT	INTERIOR
CMU	CONCRETE MASONRY UNIT	INT	INTERIOR
CO	CITY OF NORTH LAS VEGAS	JT	JOINT
CON	CLEANOUT	LN	LENGTH
CONC	CONCRETE	L, LT	LEFT
COND	CONDUIT	LF	LINEAR FEET
CONST	CONSTRUCT OR CONSTRUCTION	LP	LIP OF GUTTER
COORD	COORDINATE	LANE	LANE
COR	CORNER	LP	LOW POINT, LIGHT POLE
CPEP	CORRUGATED POLYETHYLENE PIPE	LSCP	LANDSCAPE
CT	COURT	LWWD	LAS VEGAS VALLEY WATER DISTRICT
CTC	CUBIC YARD(S)	MAX	MAXIMUM
Δ	DELTA	MANH	MANHOLE
DBL	DOUBLE	MIN	MINIMUM
DCS/DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)	MLT/MCP	MORTAR LINED TAPE & MORTAR COATED PIPE
DEFL	DEFLECTION	MP	MESA PARK
DGL	DESIGN GRADE	MOD	MODIFIED/MODIFIED
		MON	MONUMENT
		MPH	MILES PER HOUR
		N	NORTH
		NAP	NOT A PART
		NOOT	NEVADA DEPARTMENT OF TRANSPORTATION

	TYPICAL PROPOSED LINEWORK		DETAIL BUBBLE W/ REF.
	TYPICAL EXISTING LINEWORK		BENCHMARK
	TYPICAL FUTURE LINEWORK		GATE VALVE
	SECTION LINE		PRESSURE REDUCING VALVE
	EASEMENT LINE		BACK WATER VALVE
	RIGHT-OF-WAY LINE		DROP INLET
	PROPERTY LINE		FIRE HYDRANT
	CENTERLINE		WATER METER
	TYPICAL UTILITY LINE 4" - 12" (SINGLE LINE)		WATER RPPA
	TYPICAL UTILITY LINE > THAN 12" (DOUBLE LINE)		WATER RPDA
	TYPICAL SEWER LINE W/MH		TRAFFIC SIGNAL PULL BOX
	TYPICAL WATER LINE W/GV		STREET LIGHT CLARK COUNTY
	TYPICAL STORM LINE W/MH		STREET LIGHT SUMMERLIN STD
	100 YR HYDRAULIC GRADE LINE		TRAFFIC SIGNAL/FLASHER
	CONCRETE OR STEEL ENCASEMENT		EXISTING TELE POLE
	TYPICAL STUB & BLOW-OFF		EXISTING POWER POLE
	EX UTILITIES PROFILE VIEW		EXISTING POLE
	EX. GAS LINE		EX. ELEC MARKER
	EX. ELECTRICAL		TRANSFORMER PAD
	EX. CABLE TV		SERVICE PEDESTAL
	EX. TELEPHONE		PULLBOX
	EX. OVERHEAD POWER LINES		PROPOSED CONTOUR
	EX. ELEC & PWR POLES		EXISTING CONTOUR
	TYPICAL CURB & GUTTER, SIDEWALK AND RAMP		PROPOSED SPOT ELEVATION
	POST AND CABLE FENCE		EXISTING SPOT ELEVATION
	CHAIN LINK FENCE		PROPOSED SLOPE
	SAWCUT		TOP SLOPE
	PAVEMENT RESORATION AREA		TOE SLOPE
	PROPOSED ABANDONMENT		SLOPE DIRECTION
	EXISTING ABANDONMENT		FINISH FLOOR ELEVATION
	CUT LINE LIMITS		
	FILL LINE LIMITS		

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

DESCRIPTION	UNIT	PUBLIC	PRIVATE
4" PVC SEWER PIPE	LF	0	580
8" PVC SEWER PIPE	LF	825	0
4" C900 SEWER PIPE	LF	0	2085
8" C900 SEWER PIPE	LF	1489	0
SEWER MANHOLE UNDER 6 FEET	EA	6	0
SEWER MANHOLE 6 TO 18 FEET	EA	13	0
BACKWATER VALVES	EA	0	36

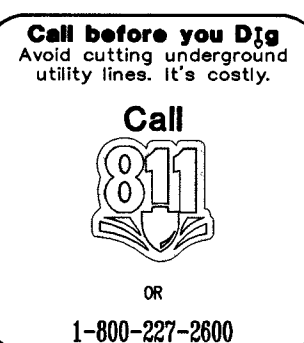
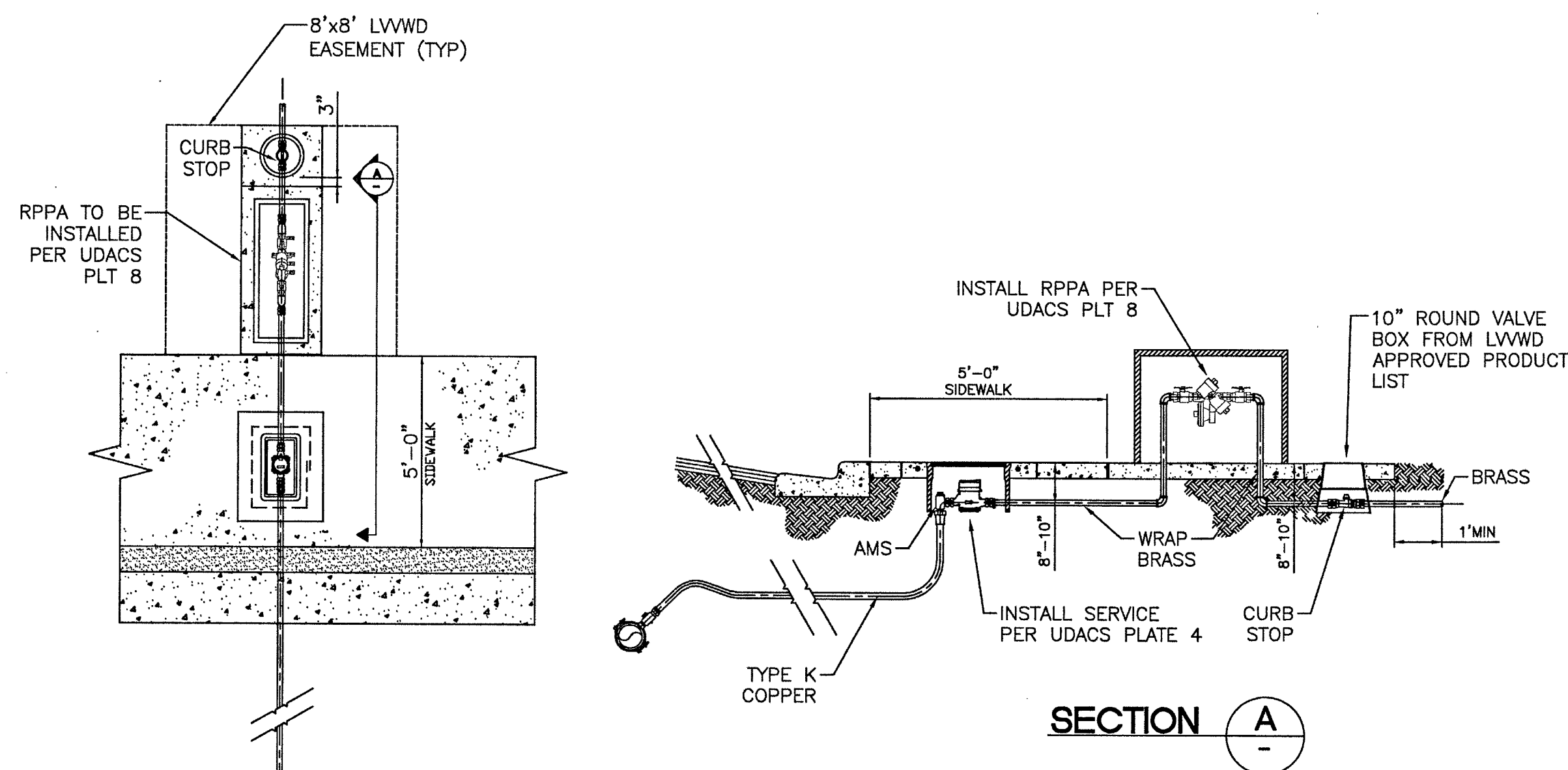
DESCRIPTION	UNIT	PUBLIC	PRIVATE
6" WATER MAIN	LF	248	0
8" WATER MAIN	LF	2241	0
WATER LATERAL	LF	2259	0
LANDSCAPE WATER SERVICE	EA	2	0
WATER SERVICE TO LOTS	EA	124	0
FIRE HYDRANT	EA	5	0
1" RPPA	EA	3	0

DESCRIPTION	UNIT	PUBLIC	PRIVATE
CURB & GUTTER (TYPE "L" & "A")	LF	0	5005
CROSS GUTTER	SF	1000	3155
SIDEWALK "A"	SF	0	1892
SIDEWALK RAMP	EA	2	0
TYPE I GRAVEL BASE	CY	75	0
TYPE II GRAVEL BASE	CY	46	1068
2" ASPHALTIC CONCRETE PAVING	SY	0	9590
5" ASPHALTIC CONCRETE PAVING	SY	300	0
SURVEY MONUMENTS	EA	1	32

DESCRIPTION	UNIT	PUBLIC	PRIVATE
ADJUST/RELOCATE STREETLIGHT	EA	1	0

DESCRIPTION	UNIT	PUBLIC	PRIVATE
18" STORM DRAIN	LF	79	0
STORM DRAIN TAP	EA	1	0
12.5' CM2 DROP INLET	EA	2	0
2' VALLEY GUTTER	LF	3,172	0

DESCRIPTION	UNIT	PUBLIC	PRIVATE
EXCAVATION & EMBANKMENT	CY	0	26311
CABLE TO LOTS	EA	0	124
GAS TO LOTS	EA	0	124
PHONE TO LOTS	EA	0	124
POWER TO LOTS	EA	0	124



PROJECT NO.
798-003

03

DESIGN: _____
DRAWN: _____
CHECK: _____

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CHECK: _____

[illegible]PLOT DATE: 08-13-19
PLOT TIME: 11:28:13

28:1

1

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

F: 702.804.2000
E: 702.804.2299

gcvengineering.com

N\798-003CCV.DWG

GCL
ENGINEERS & SURVEYORS

ADO

ENGINEERS \ SURVEYORS

:\PROJECTS\700\798-003\DWG\PRODUCT

TOUCHSTONE LIVING

HUAL APAI AND ALEXANDER

PROJECT DATA

7LV007NWW6
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AVE
ELEVATION: 2694.63

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE
REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH
114°58' WEST, 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE
GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE

STANDARD PARALLEL: AND GRID ORIGIN: 36°15'00" N

CENTRAL MERIDIAN: 114°58'00" W

FALSE NORTHING: 200,000.000 METERS (656,166.6667 US FT)

FALSE EASTING: 100,000.000 METERS (328,083.3333 US FT)

STANDARD PARALLEL SCALE: 1.000000

LINEAR UNIT: SURVEY FOOT (US)

APPROVED FOR CONSTRUCTION

Nam Giallo

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8.20.19
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# L19-01032

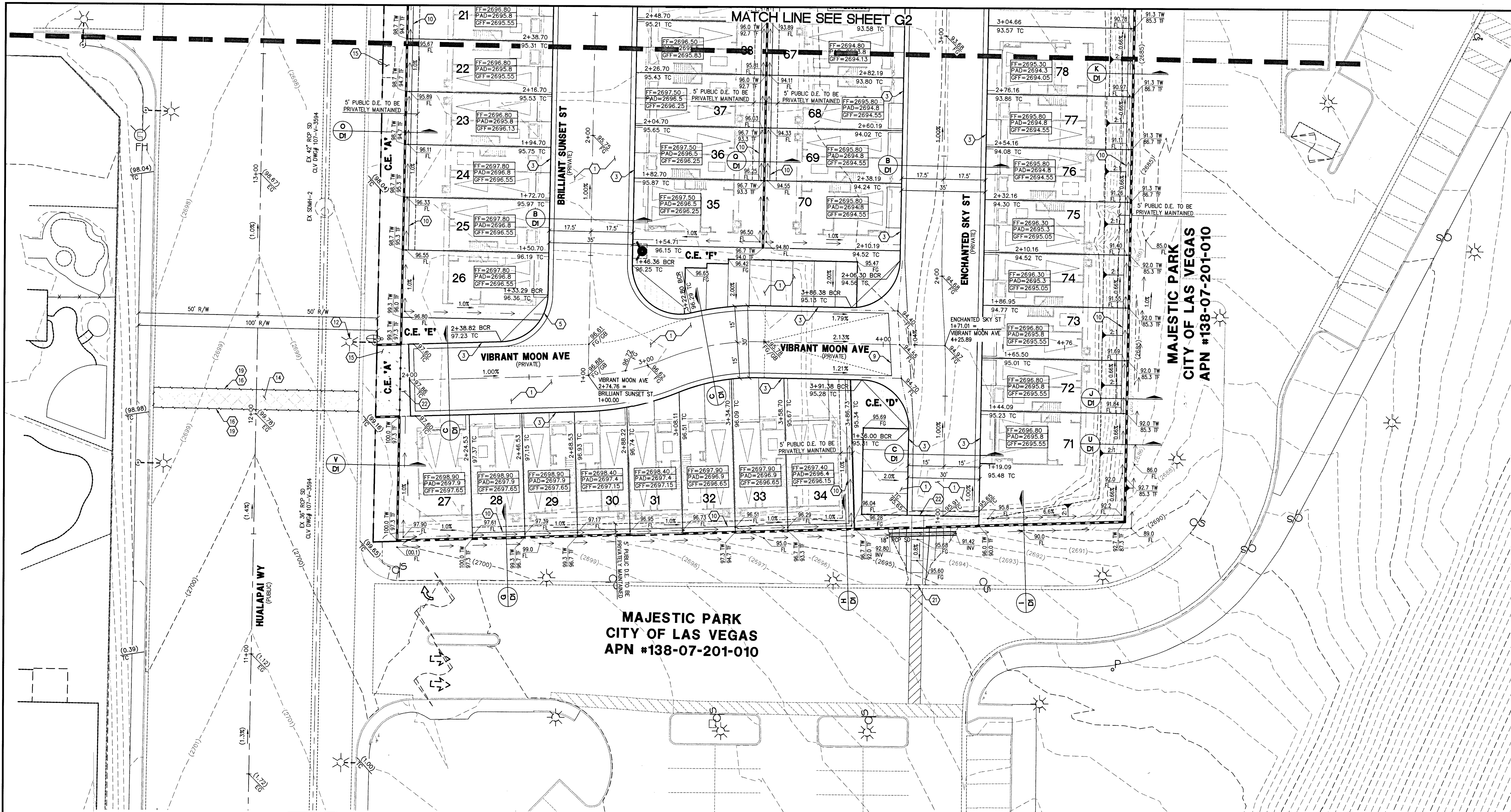
CLV DWG# 107Y5108

DRAWING

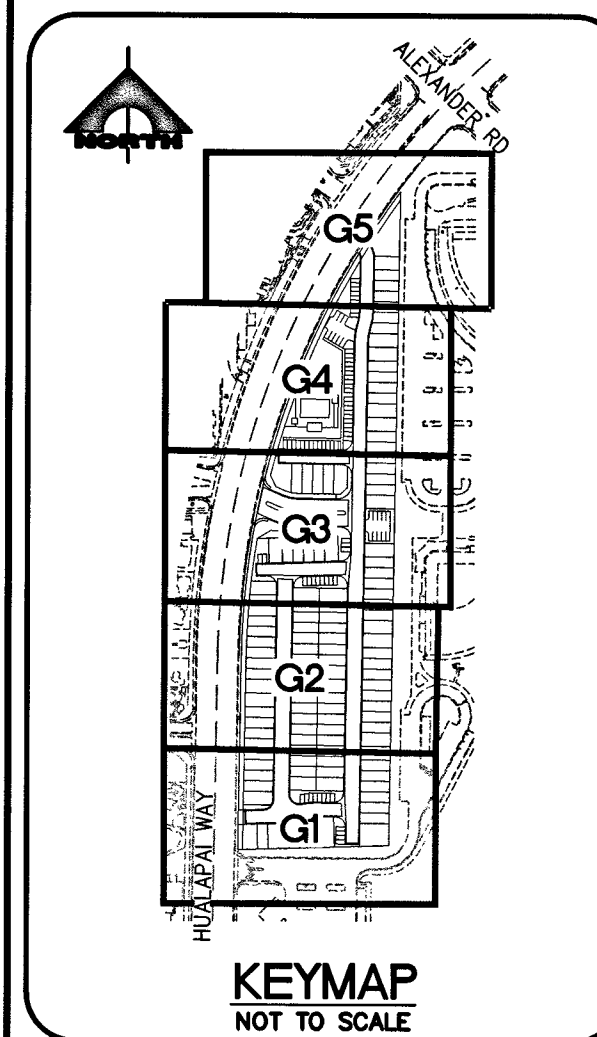
c.

3 OF 33 SHTS

PROJ#:136495A QS:138-07-NW



**MAJESTIC PARK
CITY OF LAS VEGAS
APN #138-07-201-010**



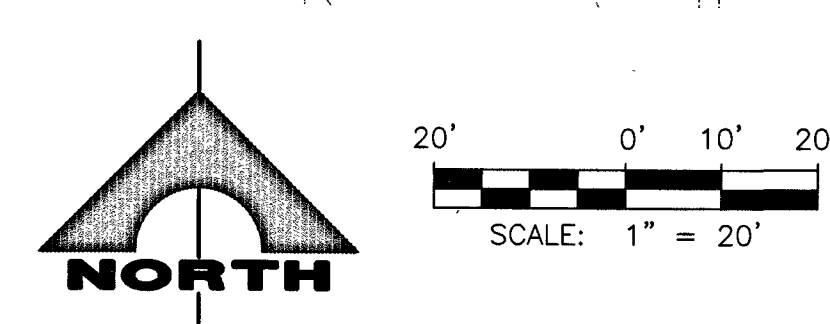
FAST
Call before you UnderGround
1-702-432-6300
PREMIER AND ARTISANAL SYSTEMS OF TRANSPORTATION

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

Call before you Dig
Avoid cutting underground utility lines. It's costly.
1-800-227-2800

- CONSTRUCTION NOTES**
- GRADING**
1. CONSTRUCT 2" AC OVER 4" TYPE II AB.
 2. CONSTRUCT L TYPE CURB AND GUTTER PER USDOCA DWG NO. 216.
 3. CONSTRUCT RESIDENTIAL CURB AND GUTTER R-TYPE PER USDOCA DWG NO. 217.3.S1.
 4. CONSTRUCT "A" TYPE ISLAND CURB PER USDOCA DWG NO. 219.
 5. CONSTRUCT R-TYPE CURB OPENING PER DETAIL 4 ON SHEET D2.
 6. CONSTRUCT MEDIAN ISLAND PER USDOCA DWG NO. 218.
 7. CONSTRUCT HANDICAP RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER USDOCA DWG NO. 235, CASE 1, 4-5-5.0" UNLESS OTHERWISE NOTED ON PLAN.
 8. CONSTRUCT COMMERCIAL AND INDUSTRIAL DRIVEWAY (OPTION A) PER USDOCA DWG NO. 224.
 9. CONSTRUCT 8" WIDE CROSS GUTTER PER USDOCA DWG NO. 218.
 10. CONSTRUCT 2" WIDE CONCRETE CROSS GUTTER PER DETAIL 6 ON SHEET D2.
 11. REMOVE EXISTING CURB AND SIDEWALK.
 12. RELOCATE.
 13. CONSTRUCT WALL OPENING PER DETAIL 2 ON SHEET D2.
 14. CONSTRUCT 5.5" AC OVER 6" TYPE II AB.
 15. CONSTRUCT SIDEWALK PER USDOCA DWG NO. 234.
 16. SAWCUT AND MATCH EXISTING.
 17. CONSTRUCT FENCE PER CCAUSD #425.S1.
 18. CONSTRUCT SLIDING GATE PER PLAN BY OTHERS.
 19. TRENCH AND PAVEMENT REPAIR/RESTORATION PER CCAUSD #500.3, 500.5, & 503.
 20. CONSTRUCT MODIFIED CASE III SIDEWALK RAMP PER CCAUSD #235.
 21. CONSTRUCT SIDEWALK RAMP PER DETAIL 9 ON SHEET D2.
 22. CONSTRUCT SIDEWALK RAMP PER DETAIL 10 ON SHEET D2.
 23. CONSTRUCT 4" PCC OVER 4" TYPE II AB.
- NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES

- CONSTRUCTION NOTES**
- STORM DRAIN**
1. CONSTRUCT 12.5" TYPE "CM2" DROP INLET PER USDOCA DWG NO. 412.1 AND 421.
 2. STORM DRAIN PIPE PENETRATION PER DETAILS 1 AND 2 ON SHEET S1.
- NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES
- NOTE**
- ALL ON-SITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PUBLICLY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.
- ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
- GENERAL NOTES**
1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
 2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IN-SITU LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.
 3. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.



NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON 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 PROPER LOCATION.

NOTE

1. GEOTECHNICAL EVALUATION FOR HUALAPAI AND ALEXANDER, A 14.024-ACRE RESIDENTIAL DEVELOPMENT LOCATED ON THE SOUTHWEST CORNER OF HUALAPAI AND ALEXANDER, LAS VEGAS, NEVADA, AS PREPARED BY GEOTECH PROJECT NUMBER 14499-LVR DATED DECEMBER 27, 2018.
2. CONSTRUCTION FOR BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING SAFETY AND MAINTENANCE DEPARTMENT.
3. WALLS CONSTRUCTED OTHER THAN THOSE AS DETAILED ON THIS SHEET ARE TO BE CONSTRUCTED BY WALL SUB-CONTRACTOR. DETAILS AND STRUCTURAL CALCULATIONS PREPARED BY OTHERS.
4. NO OBJECT OVER 24" OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES CAN BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE.
5. ALL PRIVATE STREETS ARE TO BE DEDICATED AS PUBLIC DRAINAGE EASEMENT AND PUBLIC UTILITY EASEMENT TO BE PRIVATELY MAINTAINED.

NOTE

CURB FLOW LINES LESS THAN 0.60% GRADE SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AT NO COST BY THE CITY.

- STORMWATER MANAGEMENT NOTES - CLV**
1. STANDARD NOTE NO. 1: THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
 2. STANDARD NOTE NO. 2: ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
 3. STANDARD NOTE NO. 3: TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION III.A.5.
 4. STANDARD NOTE NO. 4: AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION III.A.12.
 5. STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

- BENCHMARK**
- 7LV007NWWS
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AVE
ELEVATION: 2694.63
- BASIS OF BEARING**
- GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983. SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
- DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0
- ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTING: 200,000.000 METERS (656,166.667 US FT)
FALSE EASTING: 100,000.000 METERS (328,083.333 US FT)
STANDARD PARALLEL SCALE: 1.0001 (EXACT)
LINEAR UNIT: US SURVEY FOOT (US FT)
- FLOOD ZONE NOTE**
- NO PORTION OF THE SITE FALLS WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA. SITE LOCATED ON PANEL 2150 E. DATED SEPTEMBER 27, 2002, TO REFLECT A LOMR. THIS PANEL SHOWS THAT THE PROJECT IS LOCATED WITHIN A ZONE X AND NOT LOCATED WITHIN A FEMA DESIGNATED 100-YEAR ZONE A OR SPECIAL FLOOD HAZARD AREA.
- DRAINAGE CERTIFICATION**
- I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY 255102A ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.
- HAO A. NGUYEN P.E. 19396
DATE: 08-12-19
- L# L19-01032 CLV DWG# 107Y5108

STATE OF NEVADA
ENGINEER
HAO A. NGUYEN
19396
PROFESSIONAL

PROJECT NO. 798-003
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 08-12-19
PLOT TIME: 10:11:07

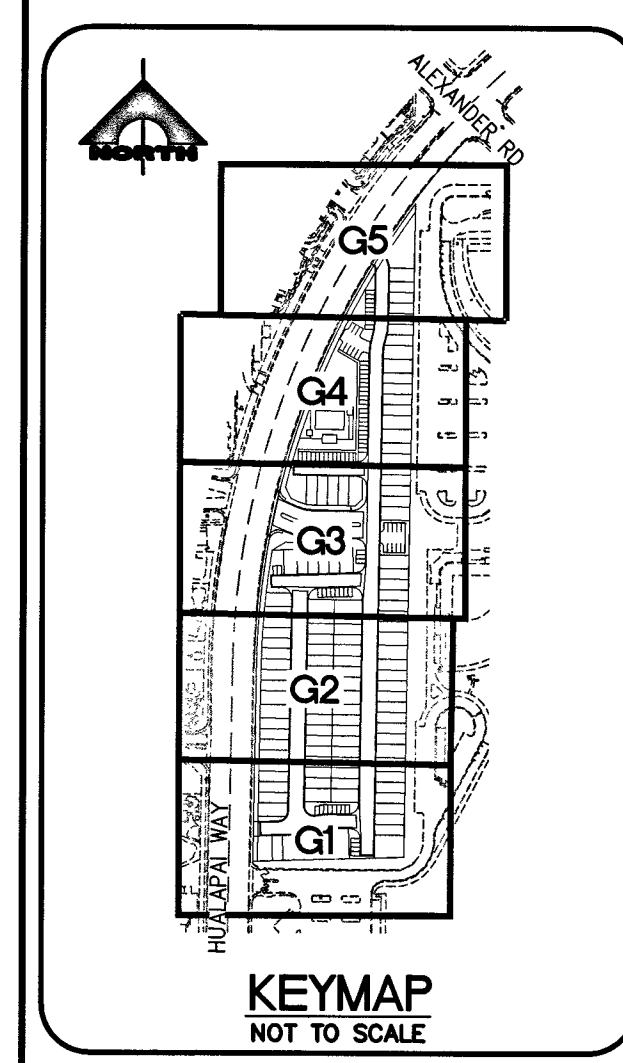
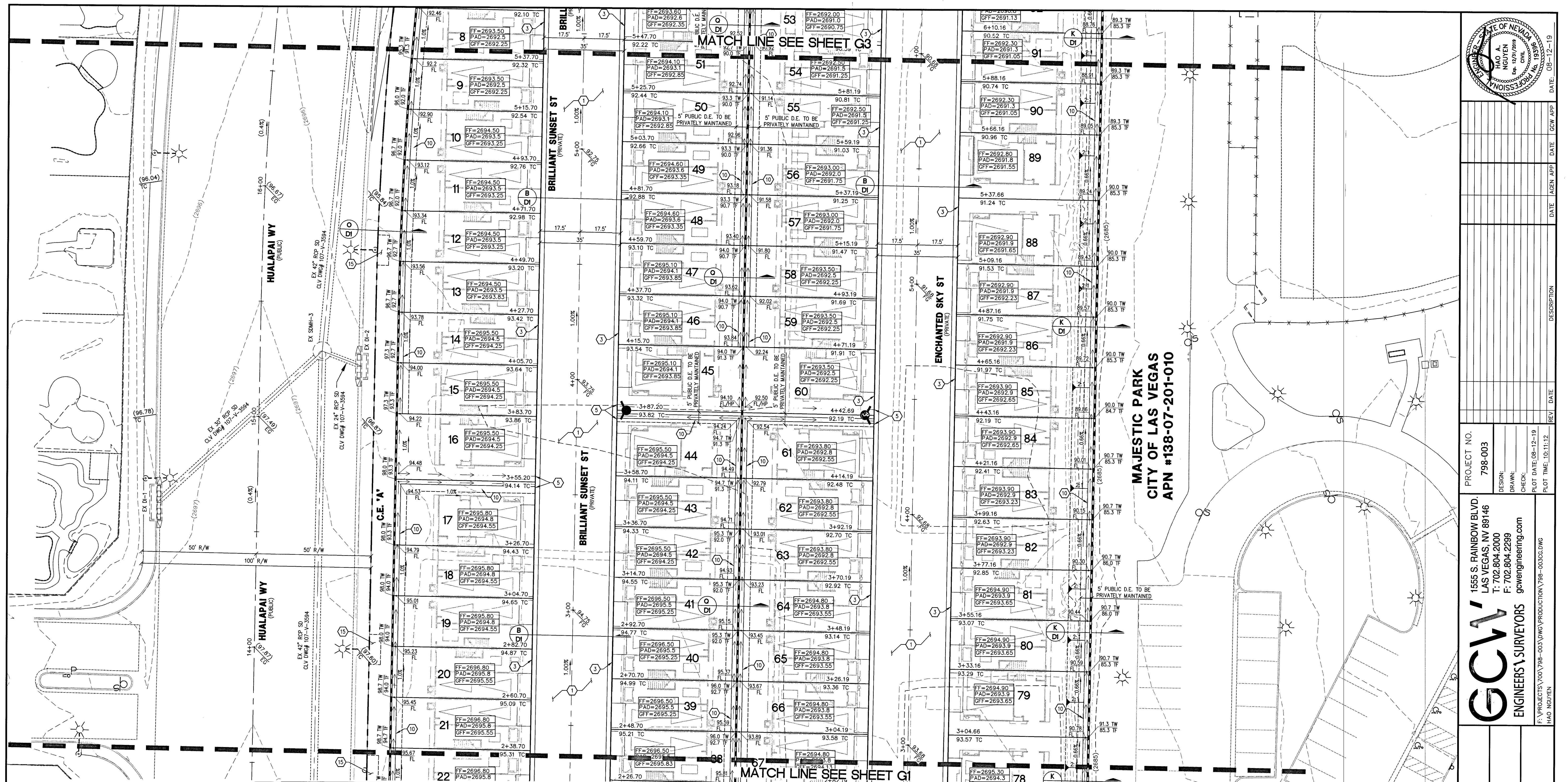
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2999
gowingengineering.com

ENGINEERS & SURVEYORS

HAO NGUYEN

TOUCHSTONE LIVING
HUALAPAI AND ALEXANDER
GRADING PLAN 1

DRAWING
G1
4 OF 33 SHTS



FAST



**Call
before you
Underground**

1-702-432-5300

FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.



**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

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

Call



OR

1-800-227-2600

- ## CONSTRUCTION NOTES
- | GRADING | |
|---------|--|
| 1 | CONSTRUCT 2" AC OVER 4" TYPE II AB. |
| 2 | CONSTRUCT L TYPE CURB AND GUTTER PER USDOCA DWG NO. 216. |
| 3 | CONSTRUCT RESIDENTIAL CURB AND GUTTER R-TYPE PER USDOCA DWG NO. 217.3.S1. |
| 4 | CONSTRUCT "A" TYPE ISLAND CURB PER USDOCA DWG NO. 219. |
| 5 | CONSTRUCT R-TYPE CURB OPENING PER DETAIL 4 ON SHEET D2. |
| 6 | CONSTRUCT MEDIAN ISLAND PER USDOCA DWG NO. 218. |
| 7 | CONSTRUCT HANDICAP RAMP USING ARMO TILE TRUNCATED DOWNS OR EQUIVALENT PER USDOCA DWG NO. 235, CASE 1, A=B=B.0' UNLESS OTHERWISE NOTED ON PLAN. |
| 8 | CONSTRUCT COMMERCIAL AND INDUSTRIAL DRIVEWAY (OPTION A) PER USDOCA DWG NO. 224. |
| 9 | CONSTRUCT 8" WIDE CROSS GUTTER PER USDOCA DWG NO. 218. |
| 10 | CONSTRUCT 2" WIDE CONCRETE CROSS GUTTER PER DETAIL 6 ON SHEET D2. |
| 11 | REMOVE EXISTING CURB AND SIDEWALK. |
| 12 | RELOCATE. |
| 13 | CONSTRUCT WALL OPENING PER DETAIL 2 ON SHEET D2. |
| 14 | CONSTRUCT 5.5" AC OVER 6" TYPE II AB. |
| 15 | CONSTRUCT SIDEWALK PER USDOCA DWG NO. 234. |
| 16 | SAWCUT AND MATCH EXISTING. |
| 17 | CONSTRUCT FENCE PER CCAUSD #425.S1 |
| 18 | CONSTRUCT SLIDING GATE PER PLAN BY OTHERS |
| 19 | TRENCH AND PAVEMENT REPAIR/RESTORATION PER CCAUSD #500.3, 500.5, & 503 |
| 20 | CONSTRUCT MODIFIED CASE III SIDEWALK RAMP PER CCAUSD #235. |
| 21 | CONSTRUCT SIDEWALK RAMP PER DETAIL 9 ON SHEET D2 |
| 22 | CONSTRUCT SIDEWALK RAMP PER DETAIL 10 ON SHEET D2 |
| 23 | CONSTRUCT 4" PCC OVER 4" TYPE II AB |
- NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES

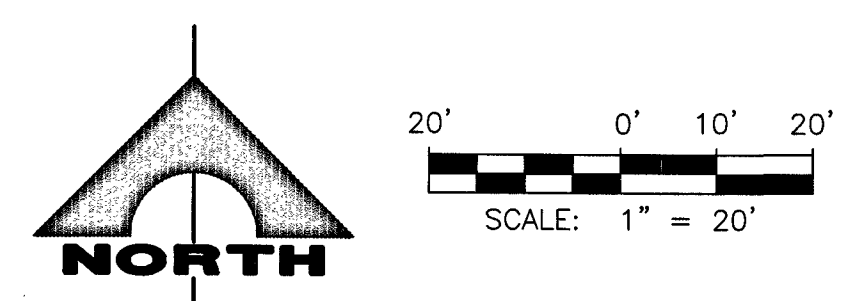
- ## CONSTRUCTION NOTES
- STORM DRAIN**

 - ◆ CONSTRUCTION 12.5" TYPE "CM2" DROP INLET PER USDOCA DWG. NO. 41.21 AND 421.
 - ◆ STORM DRAIN PIPE PENETRATION PER DETAILS 1 AND 2 ON SHEET S1.
- NOTE: SEE SHEET C2 & C3 FOR ABBREVIATIONS AND QUANTITIES
- NOTE**

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PUBLICLY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL PRIVATE STREETS ARE P.U.E., PUBLIC DRAINAGE EASEMENT AND PUBLIC SEWER EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
- GENERAL NOTES**

 1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
 2. IN THE EVENT THAT THE TRAFFIC SIGNAL, CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR AT HIS OWN LEVEL. IF ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01-01.02.
 3. ALL SEWER/ STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 4. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.



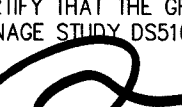
NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON 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 ANY ONGOING 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 PROPER LOCATION.

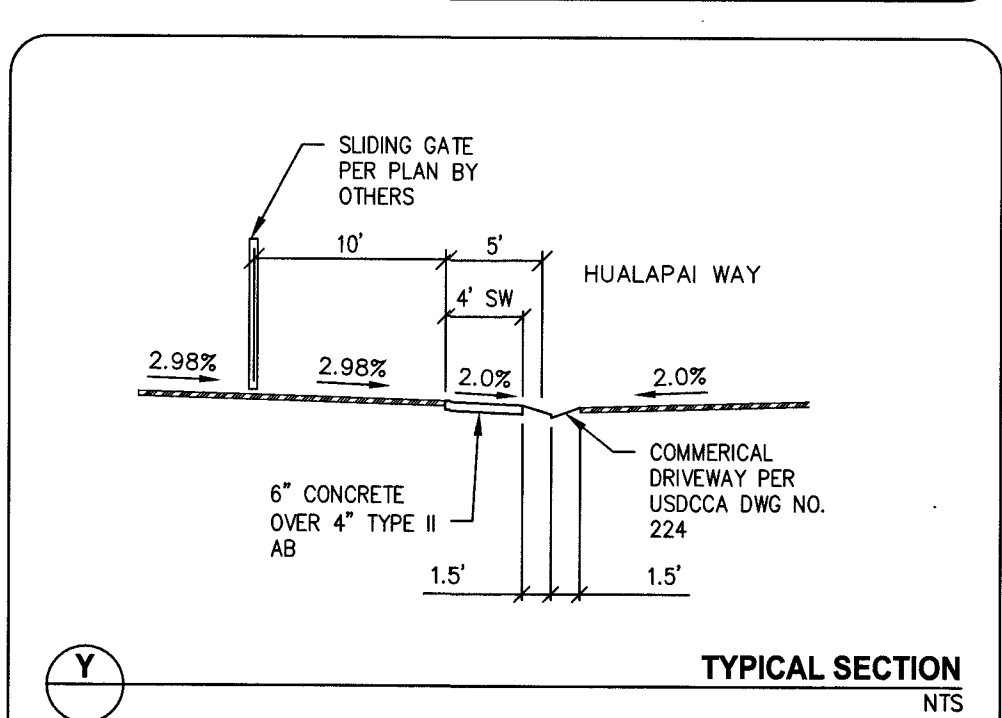
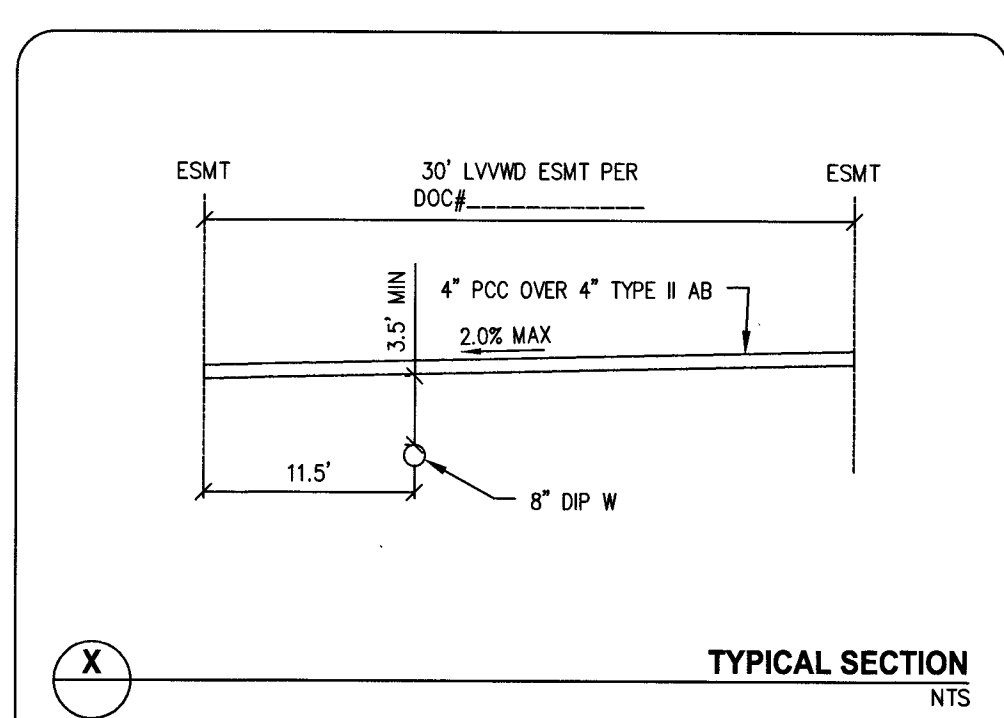
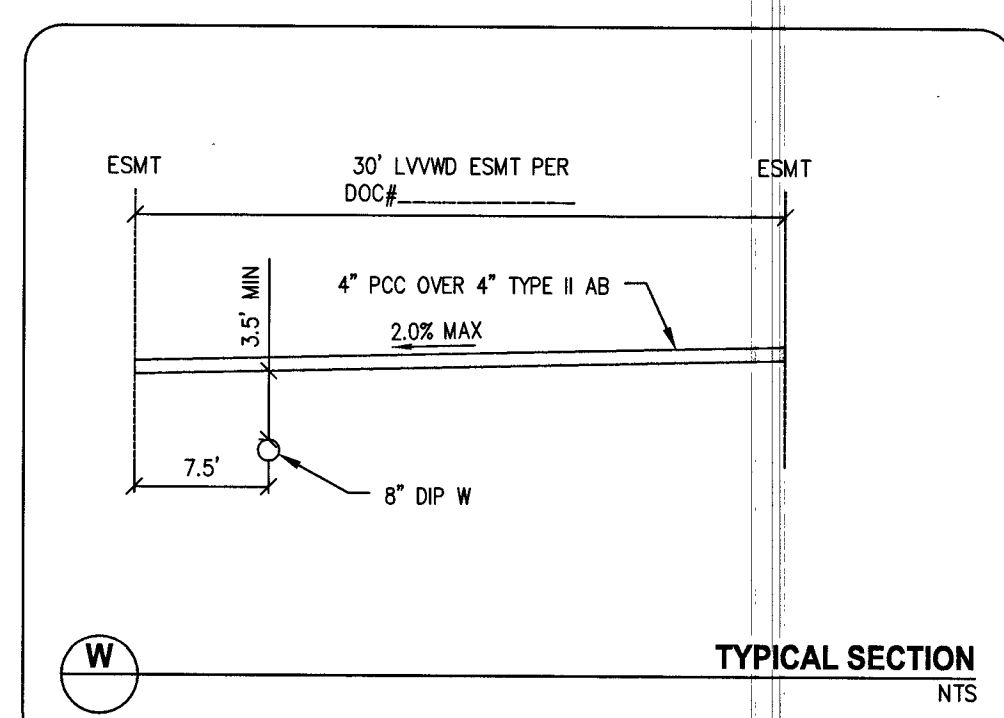
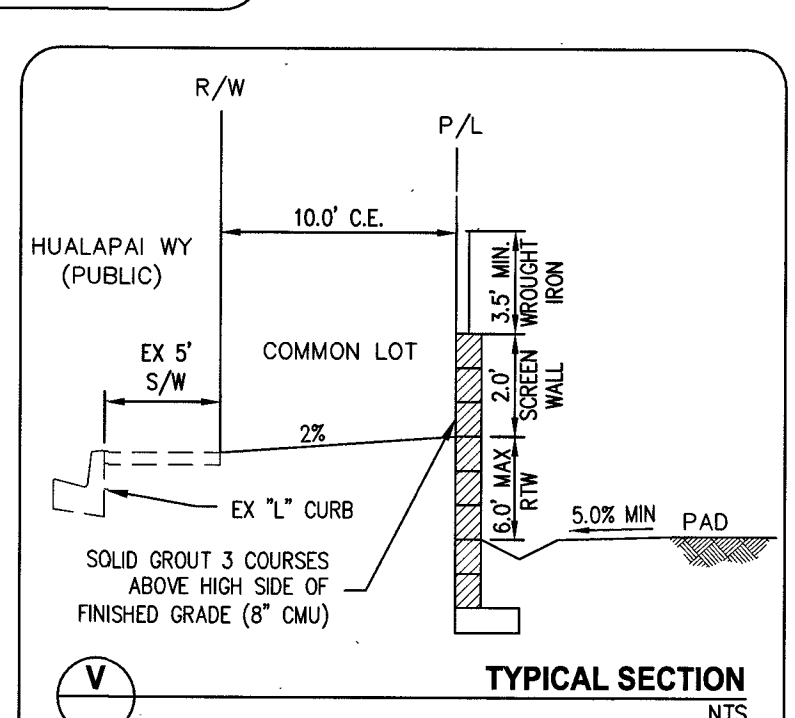
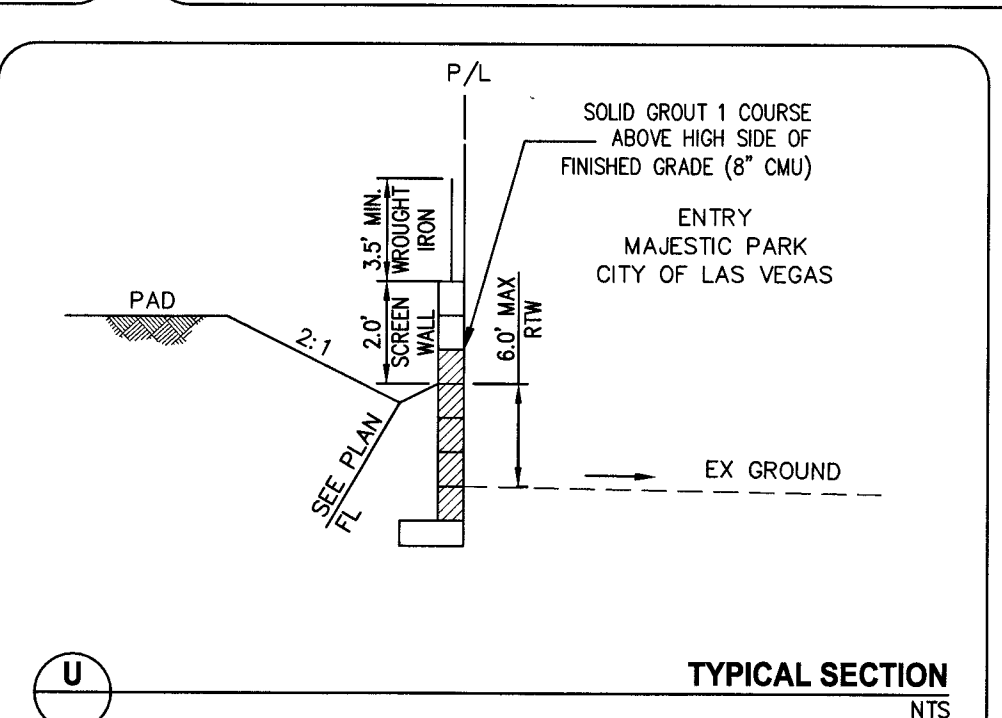
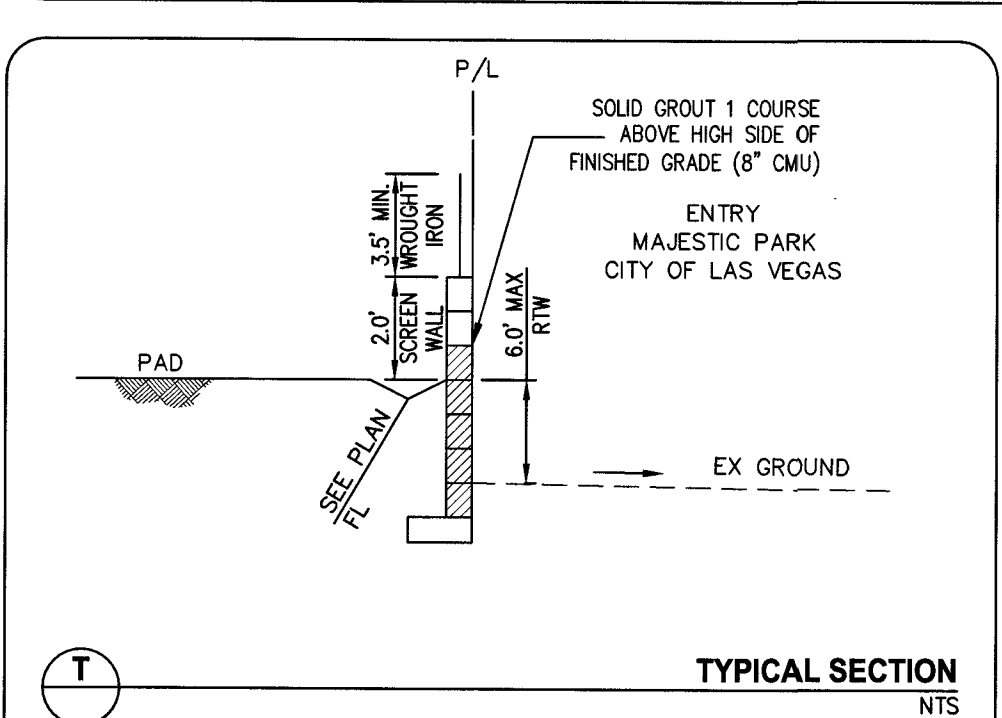
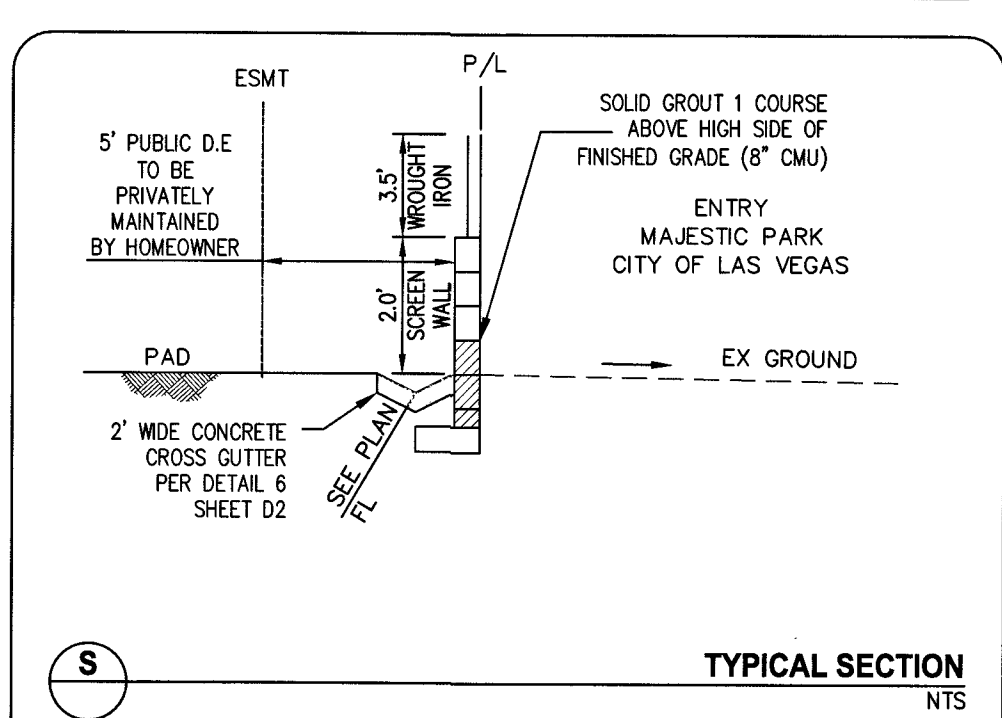
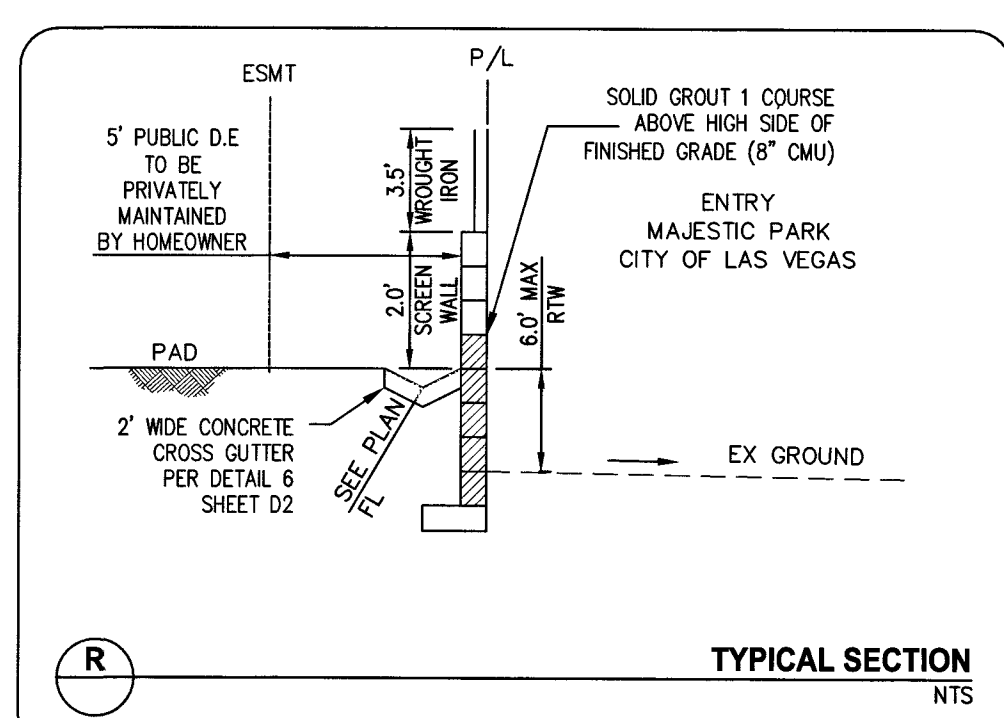
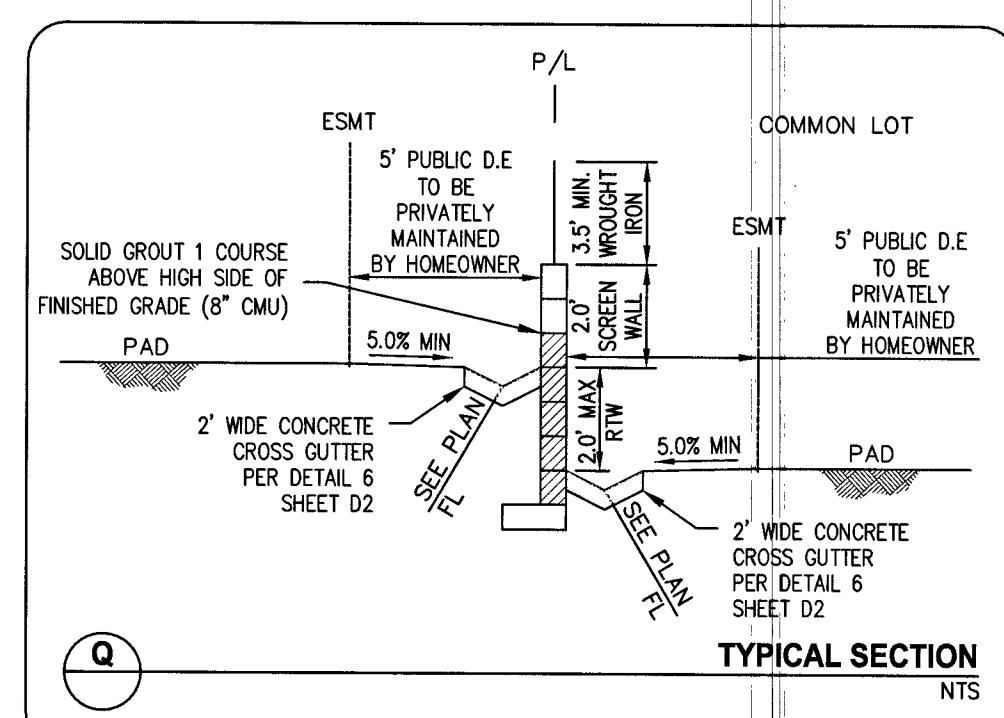
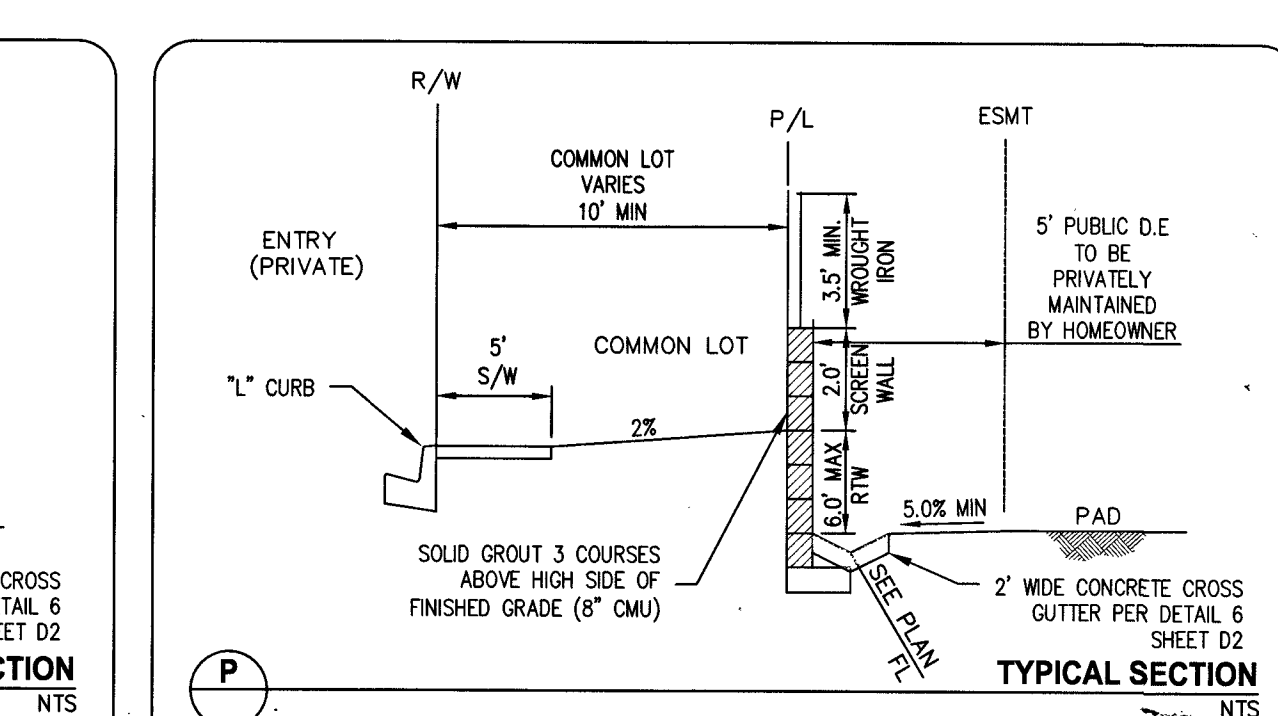
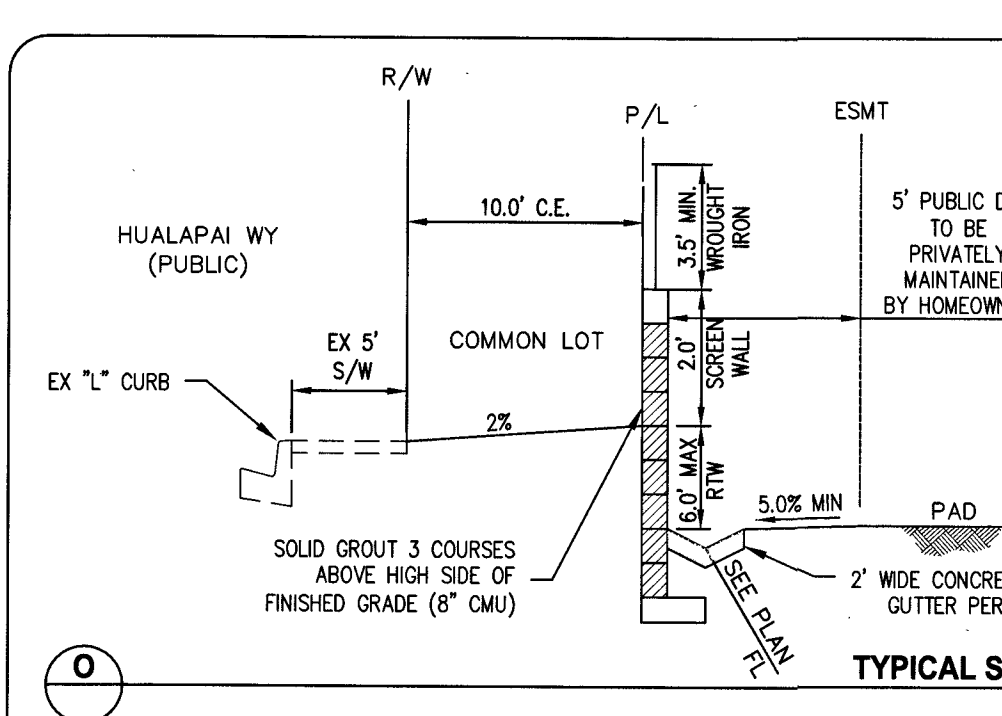
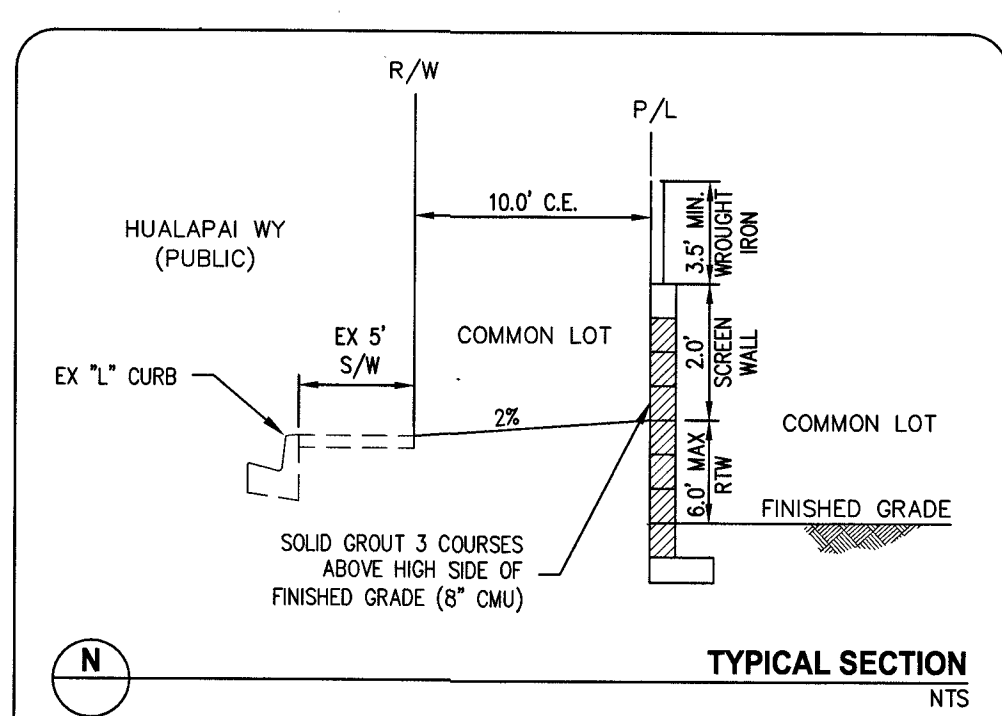
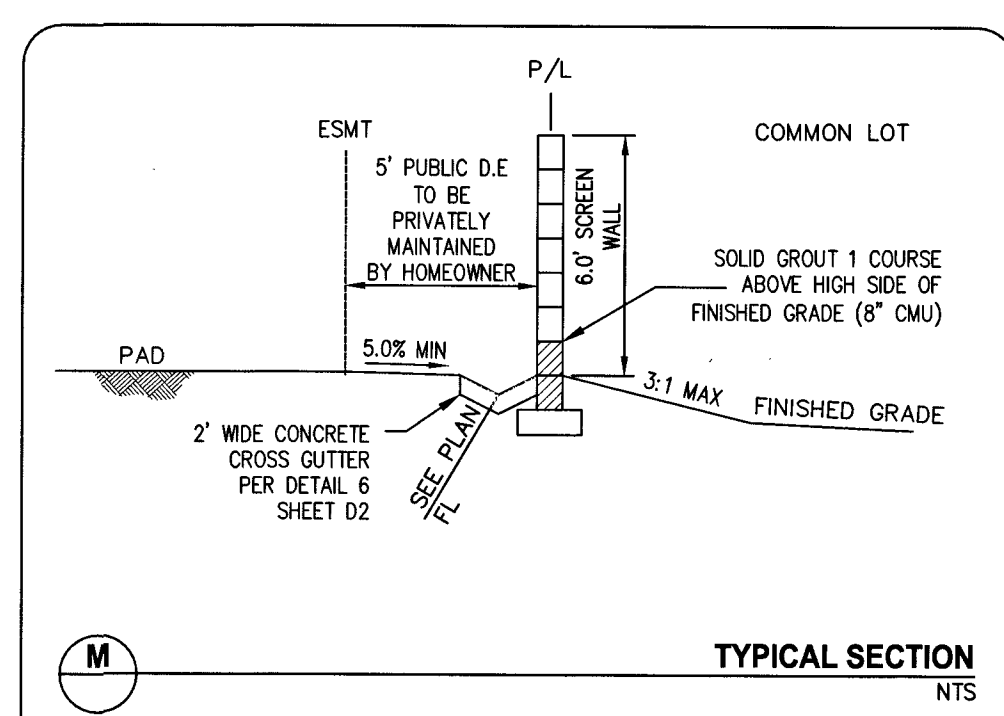
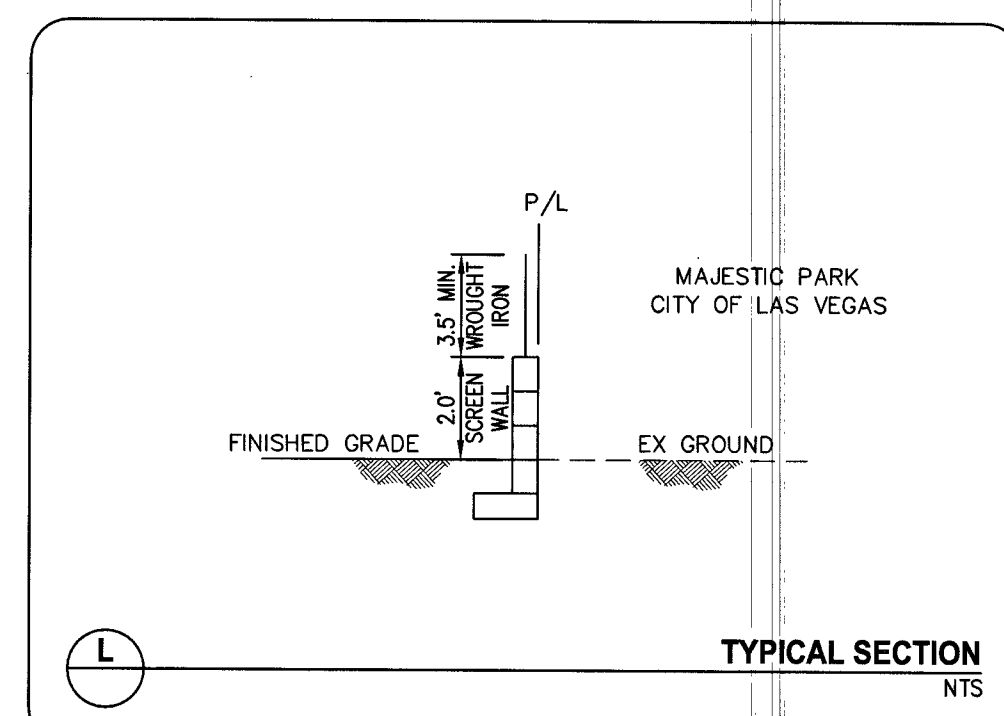
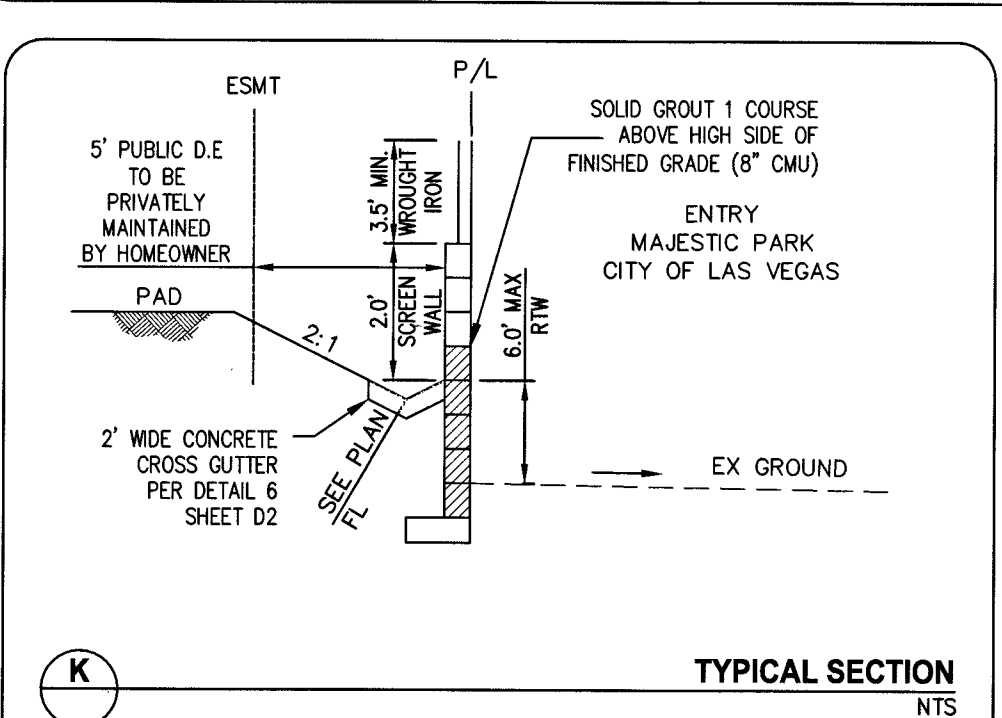
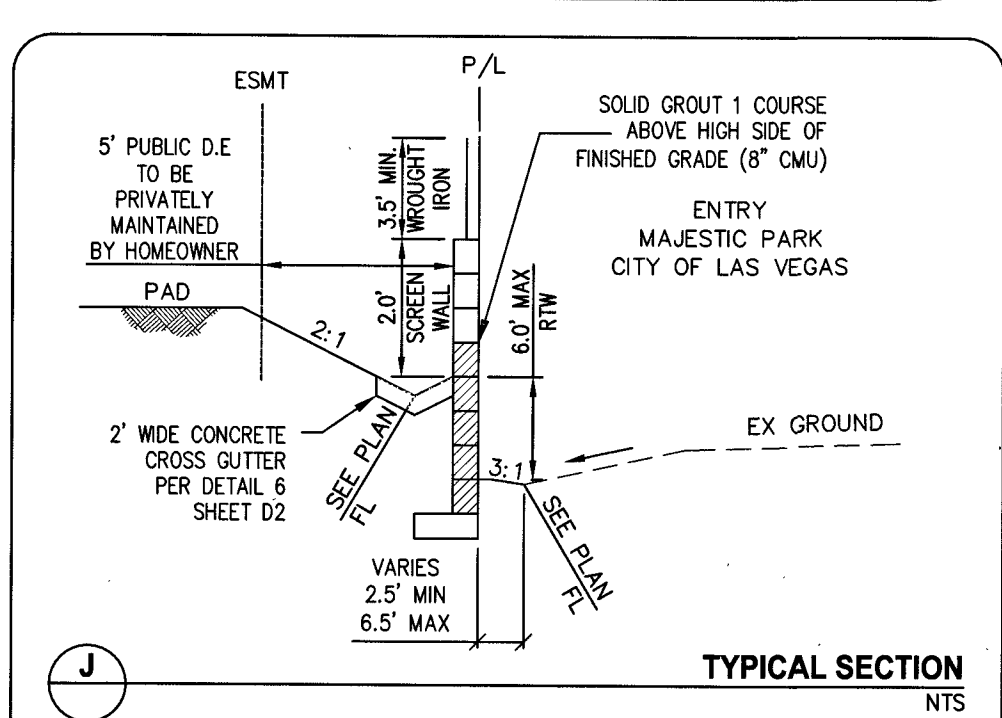
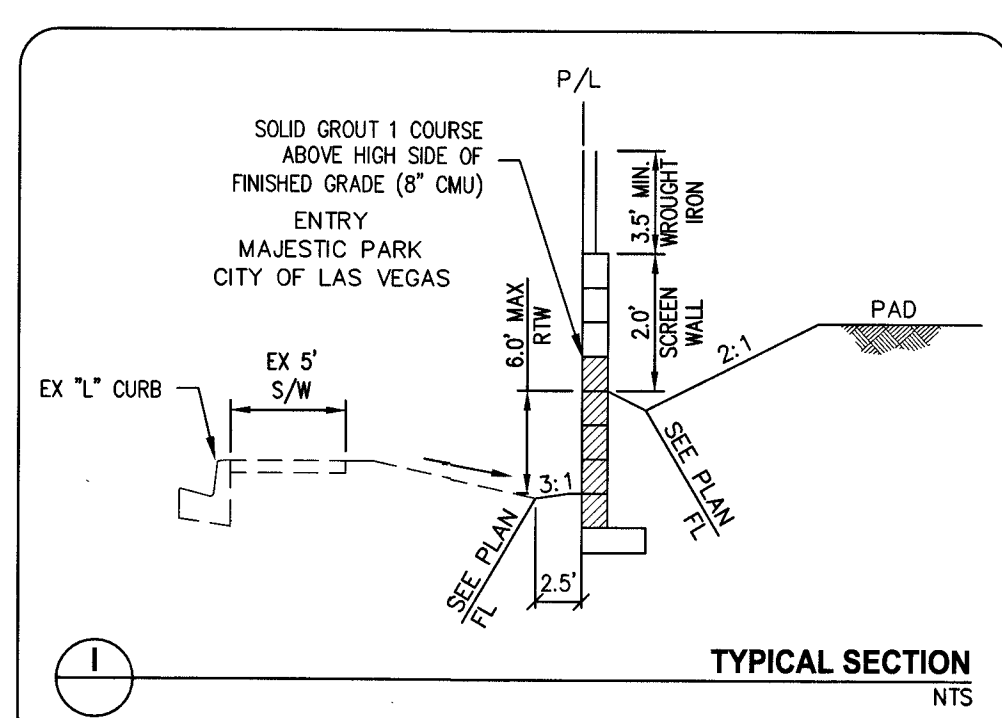
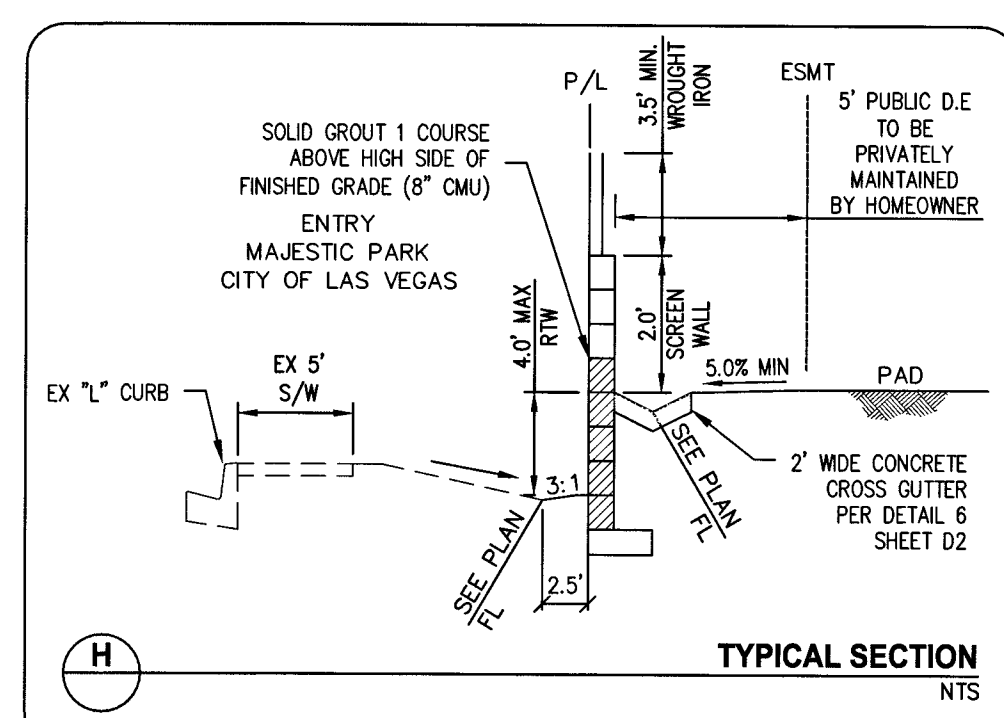
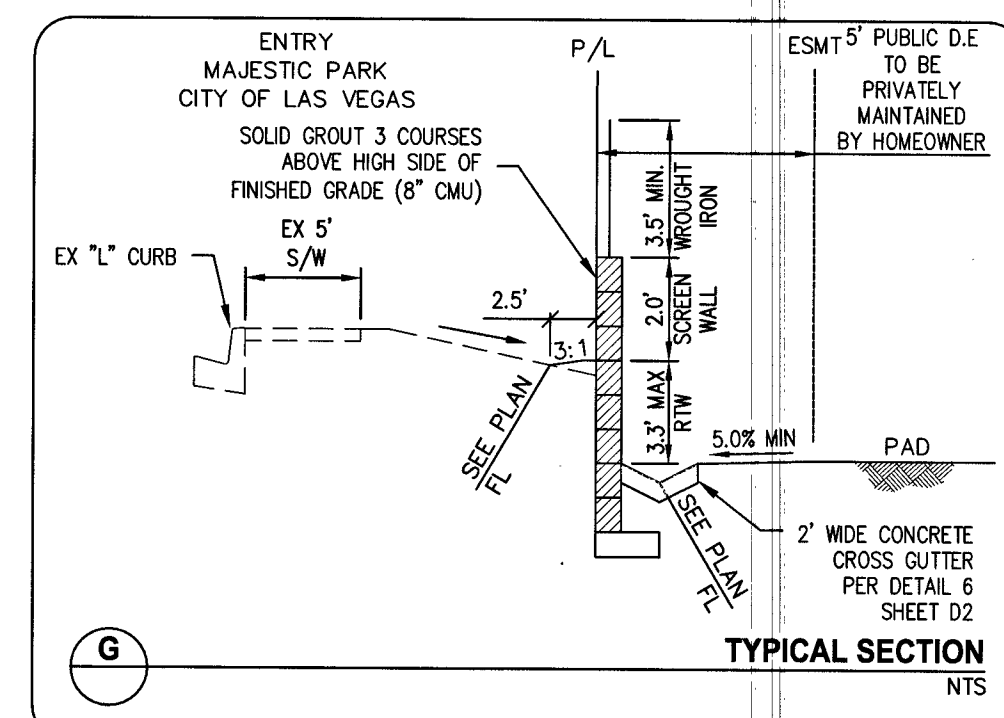
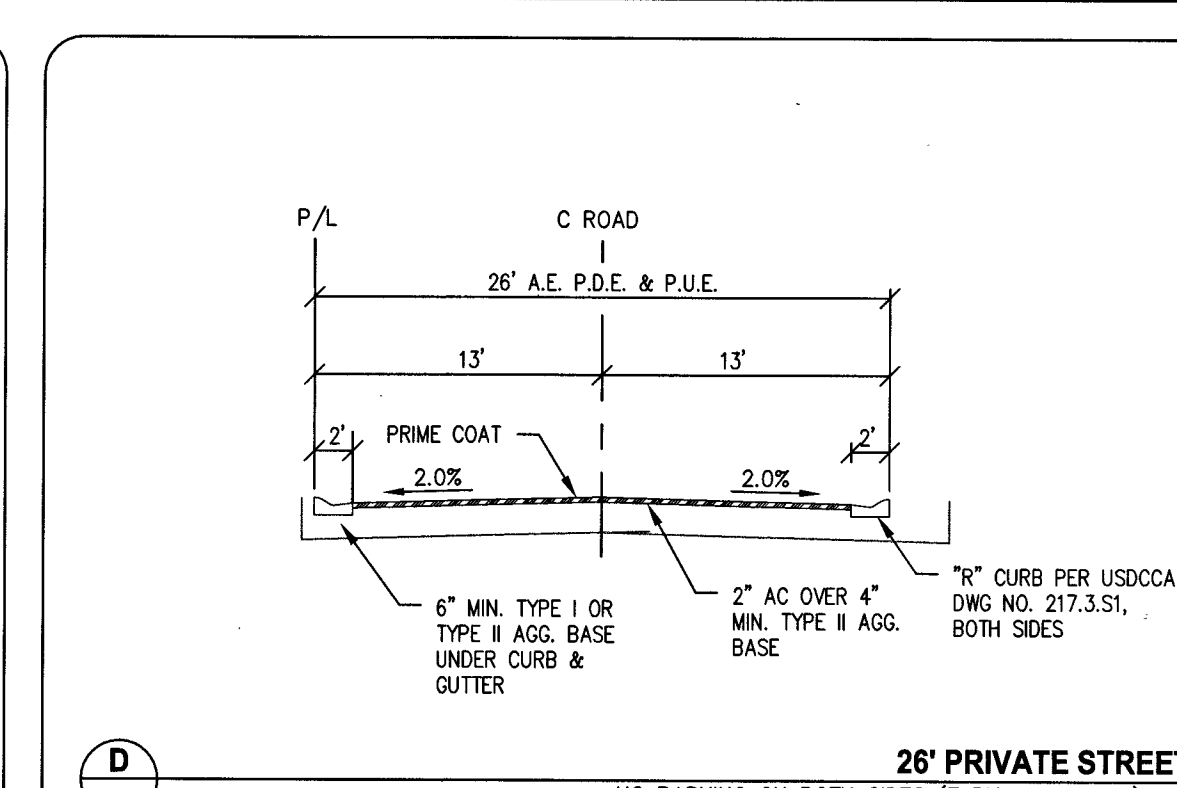
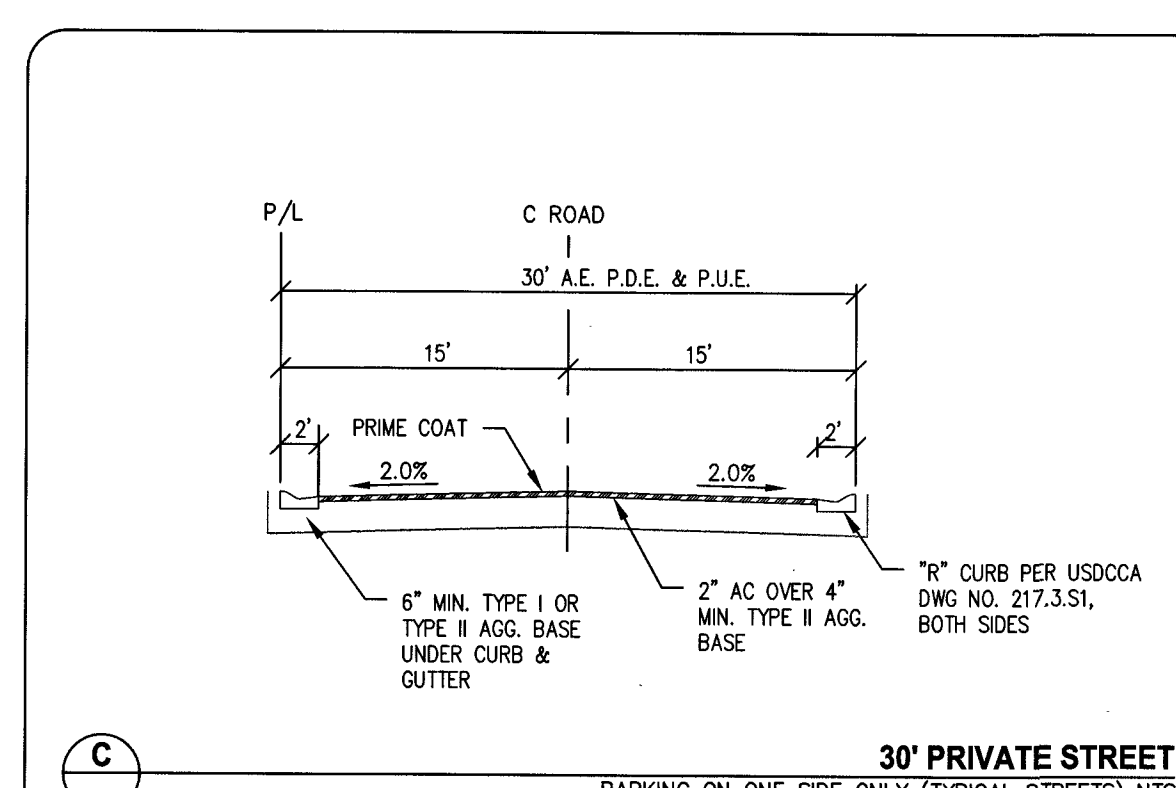
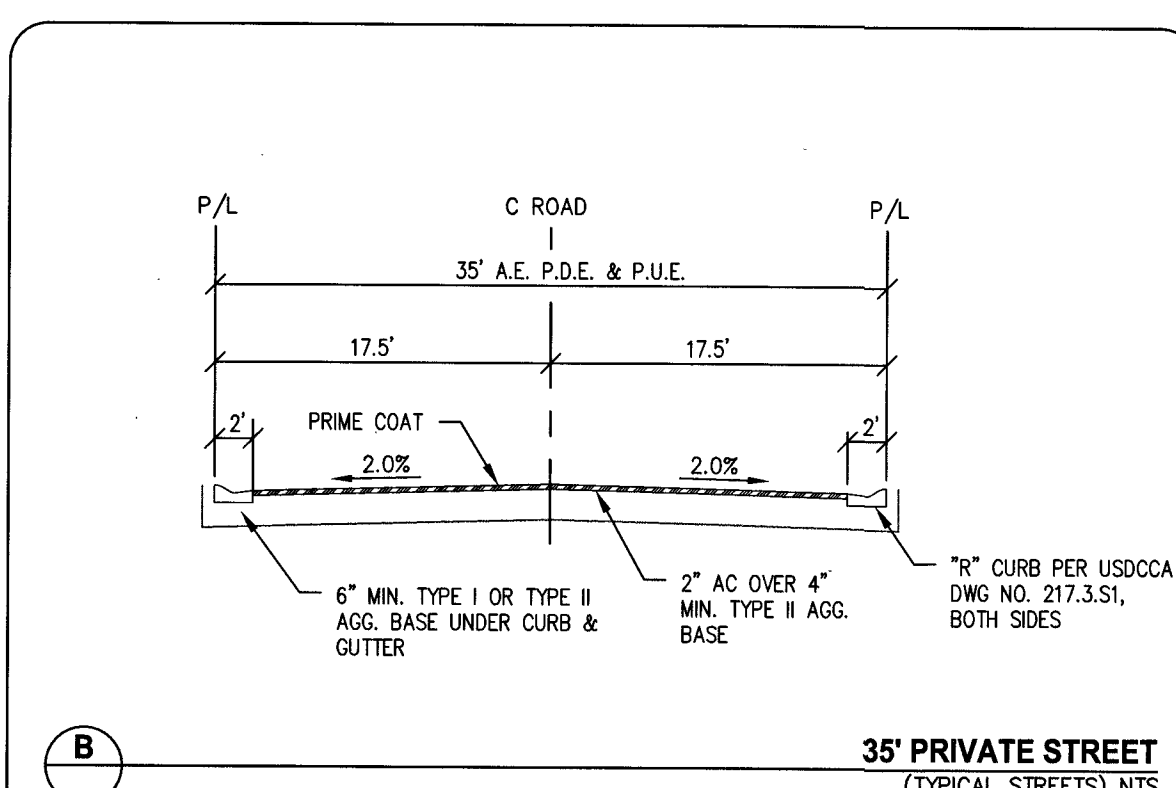
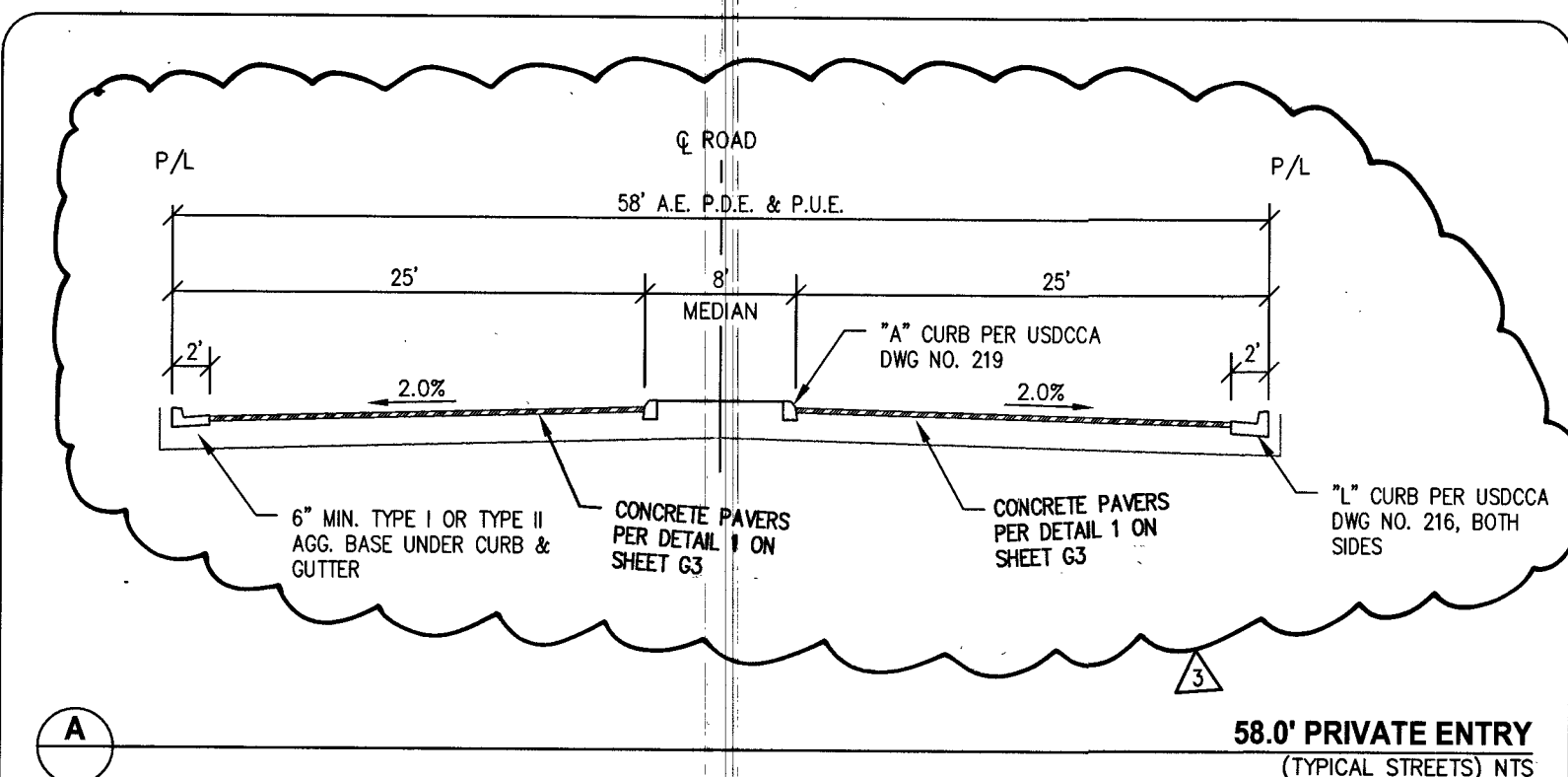
NOTE

1. GEOTECHNICAL EVALUATION FOR HUALAPAI AND ALEXANDER, A 14.02± ACRE RESIDENTIAL DEVELOPMENT LOCATED ON THE SOUTHWEST CORNER OF HUALAPAI AND ALEXANDER LAS VEGAS, NEVADA AS PREPARED BY GEOTEK PROJECT NUMBER 14495-001-001-002-000.
2. CONSTRUCTION FOR BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING SAFETY AND MAINTENANCE DEPARTMENT.
3. WALLS CONSTRUCTED OTHER THAN THOSE AS DETAILED ON THIS SHEET ARE TO BE CONSTRUCTED BY WALL SUB-CONTRACTOR, DETAILS AND STRUCTURAL CALCULATIONS AS PREPARED BY OTHERS.
4. NO OBJECT OVER 24" OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES CAN BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY TRIANGLE.
5. ALL PRIVATE STREETS ARE TO BE DEDICATED AS PUBLIC DRAINAGE EASEMENT AND PUBLIC UTILITY EASEMENT TO BE PRIVATELY MAINTAINED.

NOTE
CURB FLOW LINES LESS THAN 0.60% GRADE SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AT NO COST BY THE CITY.

BENCHMARK			
7LV007WNW6 RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AVE ELEVATION: 2694.63			
BASIS OF BEARING			
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.			
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0			
ZONE: LAS VEGAS ZONE			
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N			
CENTRAL MERIDIAN: 114°58'00" W			
FALSE NORTING: 200,000.000 METERS (656,166.6667 US FT)			
FALSE EASTING: 100,000.000 METERS (328,083.3333 US FT)			
STANDARD PARALLEL SCALE: 1.0001 (EXACT)			
LINEAR UNIT: US SURVEY FOOT (US FT)			
FLOOD ZONE NOTE			
NO PORTION OF THE SITE FALLS WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA. SITE LOCATED ON PAVEMENT 2150 E, DATED SEPTEMBER 27, 2002, TO REFLECT A LOWR. THIS PANEL SHOWS THAT THE PROJECT IS LOCATED WITHIN A ZONE X AND NOT LOCATED WITHIN A FEMA DESIGNATED 100-YEAR ZONE A OR SPECIAL FLOOD HAZARD AREA.			
DRAINAGE CERTIFICATION			
I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY D551022A ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.			
 HAO A. NGUYEN			08-12-19 DATE
# L19-01032 CLV DWG# 107Y108			

TOUCHSTONE LIVING HUALAPAI AND ALEXANDER GRADING PLAN 2	GCW' ENGINEERS & SURVEYORS 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcwengineering.com	PROJECT NO. 798-003										
		DESIGN: DRAWN: CHECK: PLOT DATE: 08-12-19 PLOT TIME: 10:11:12	REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP	DATE: 08-12-19		

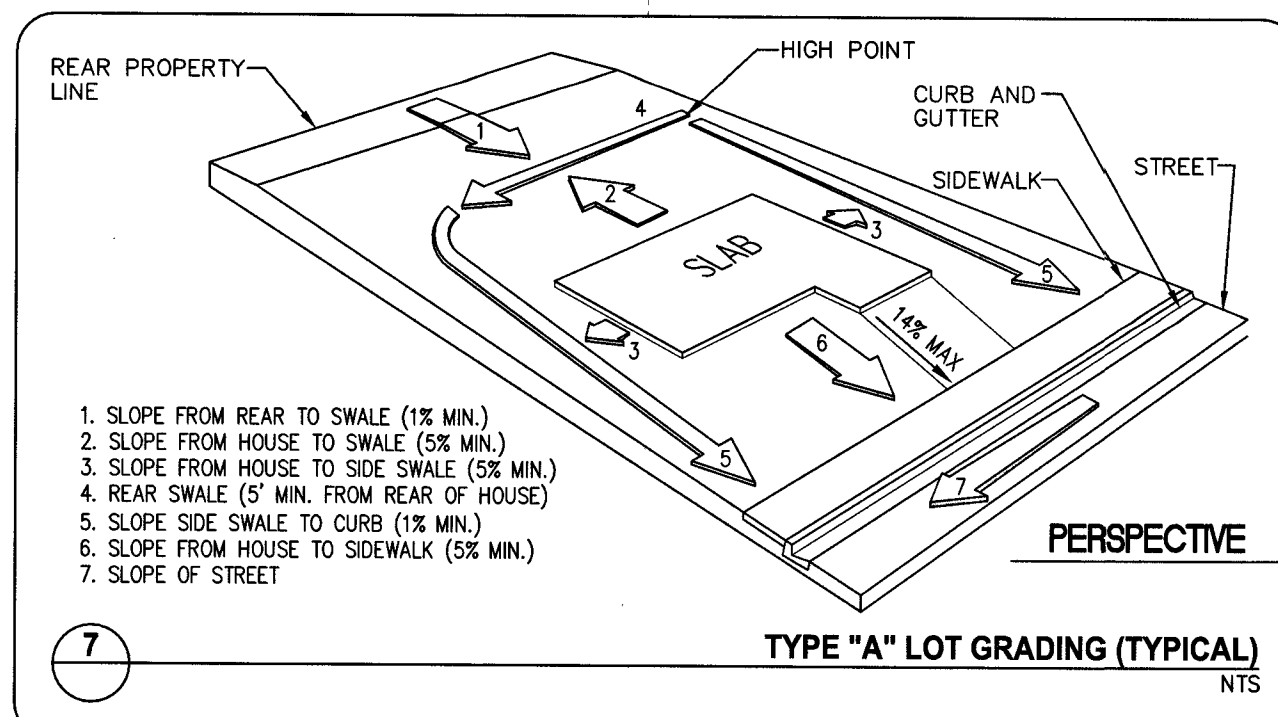


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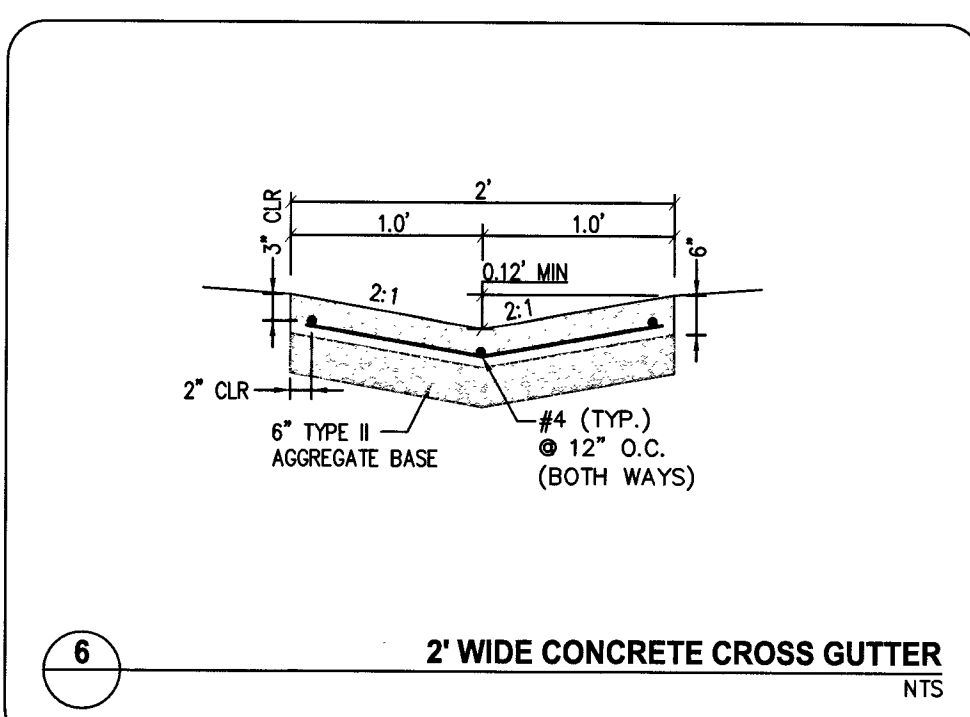
Nam Qiallo

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 1364959
LAYING APPROVED FIRE FLOW 1500 GPM AT 20 PSI
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

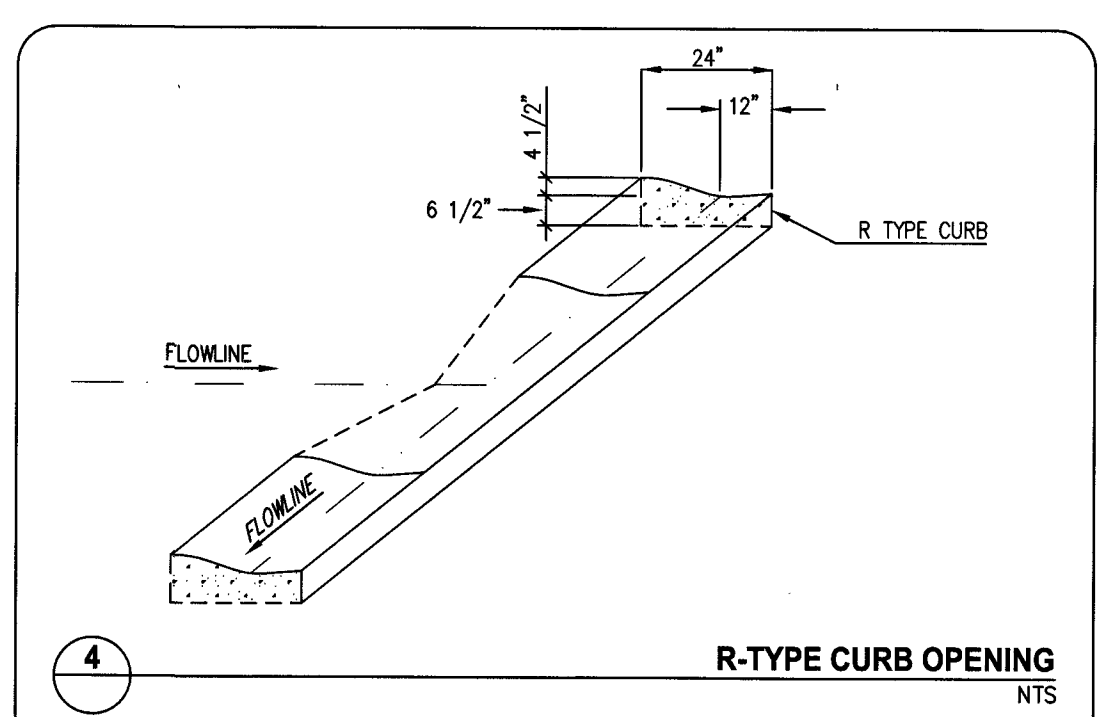
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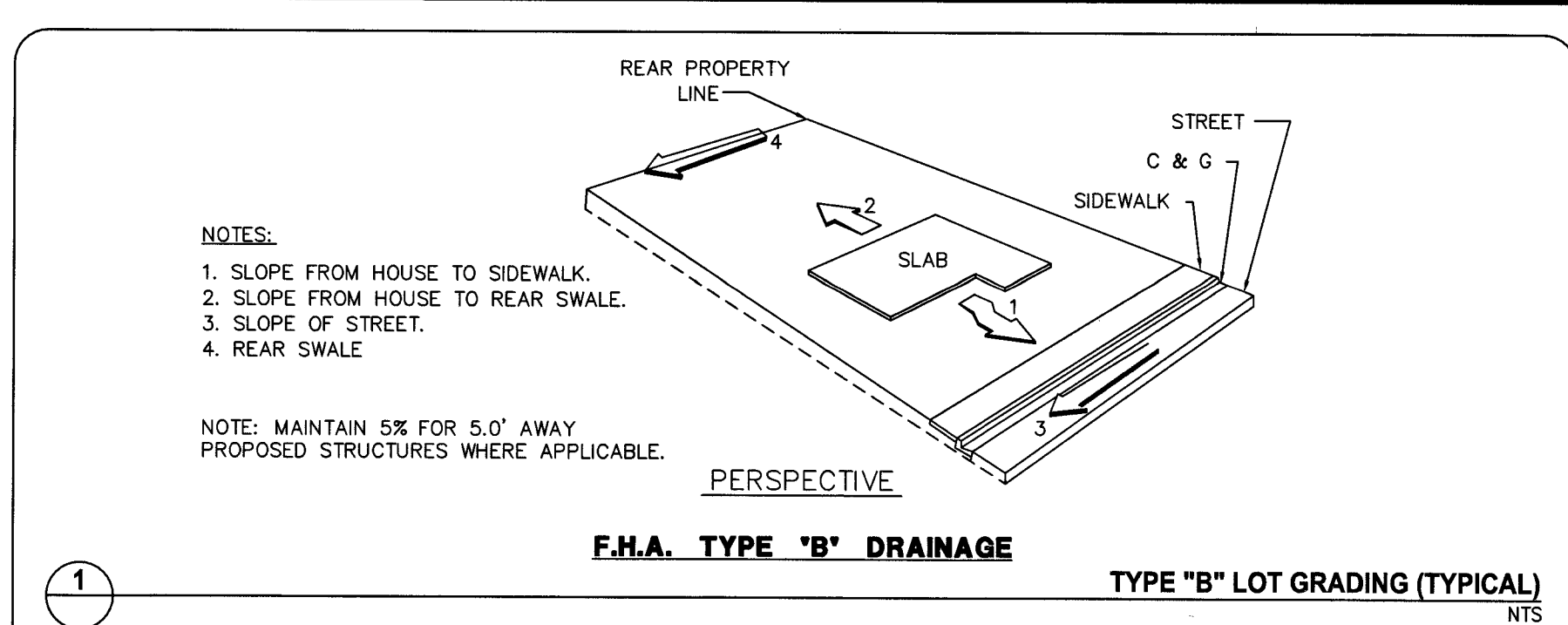
7 TYPE "A" LOT GRADING (TYPICAL) NTS



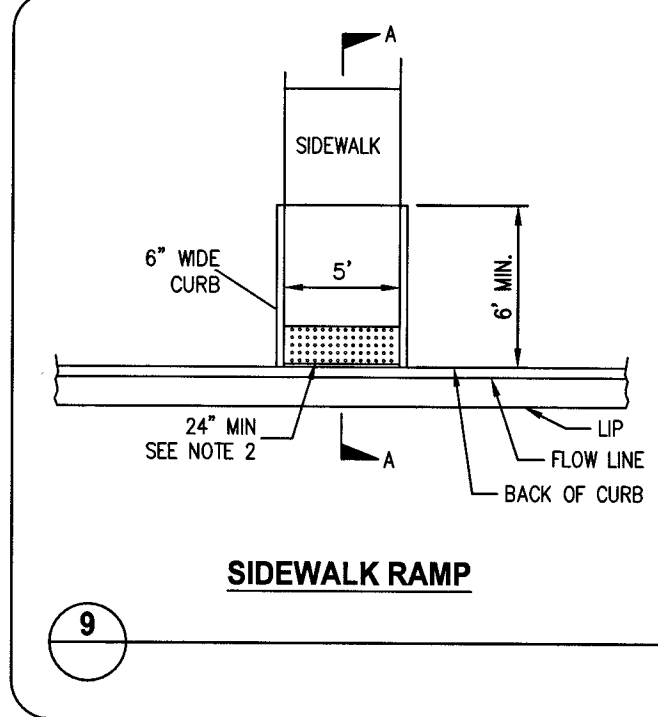
6 2' WIDE CONCRETE CROSS GUTTER NTS



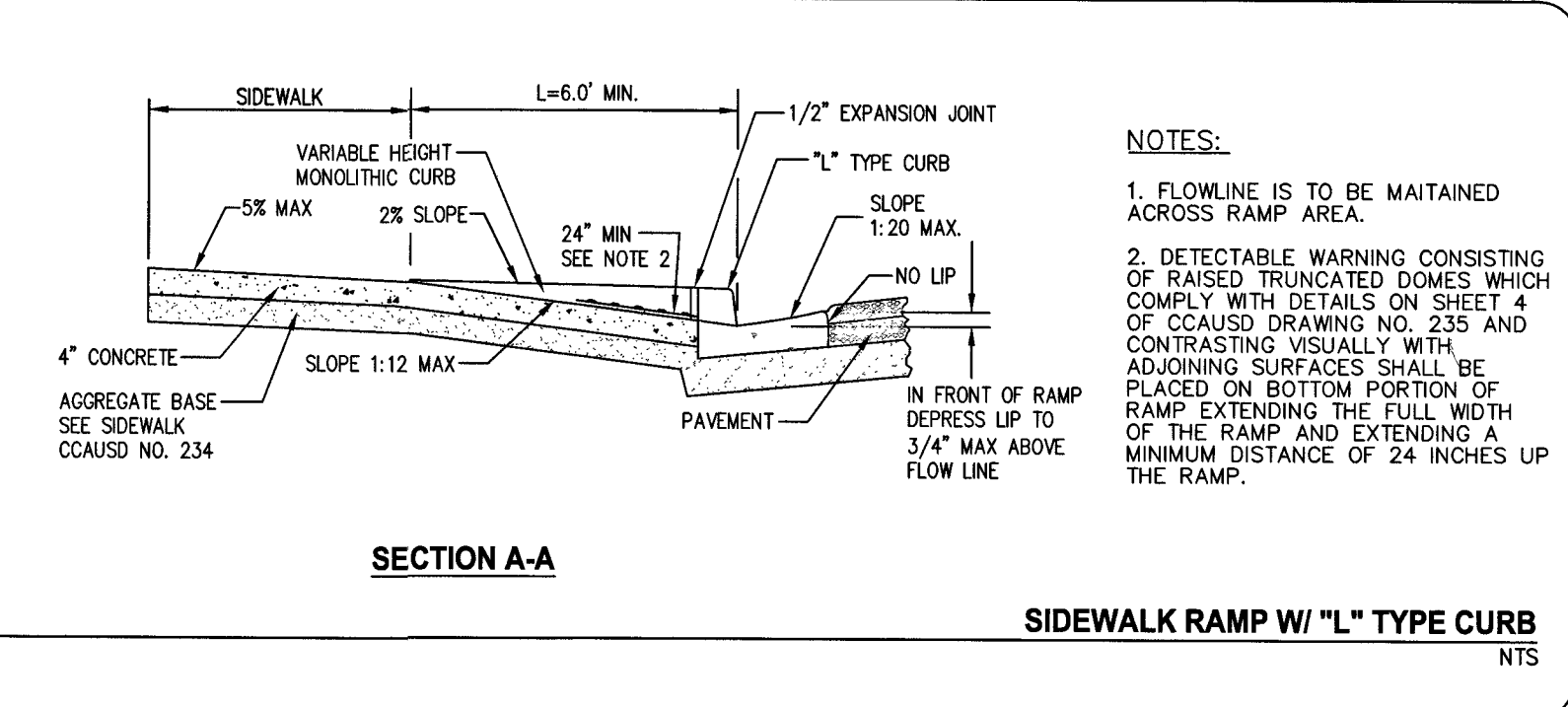
4 R-TYPE CURB OPENING NTS



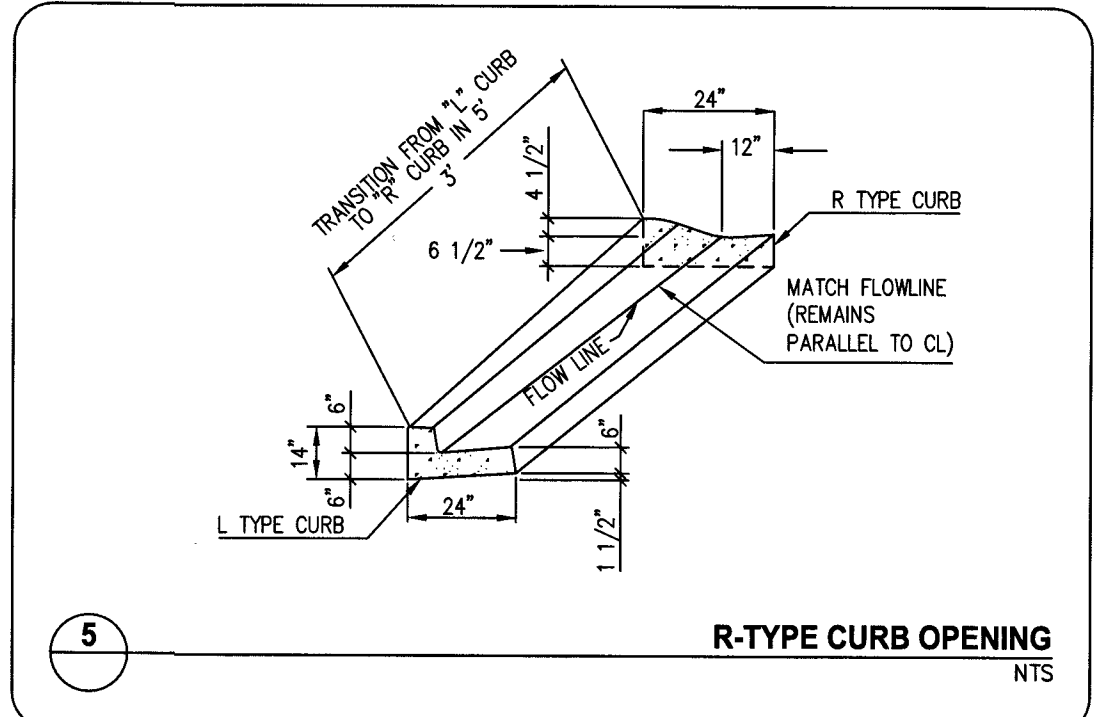
1 F.H.A. TYPE "B" DRAINAGE TYPE "B" LOT GRADING (TYPICAL) NTS



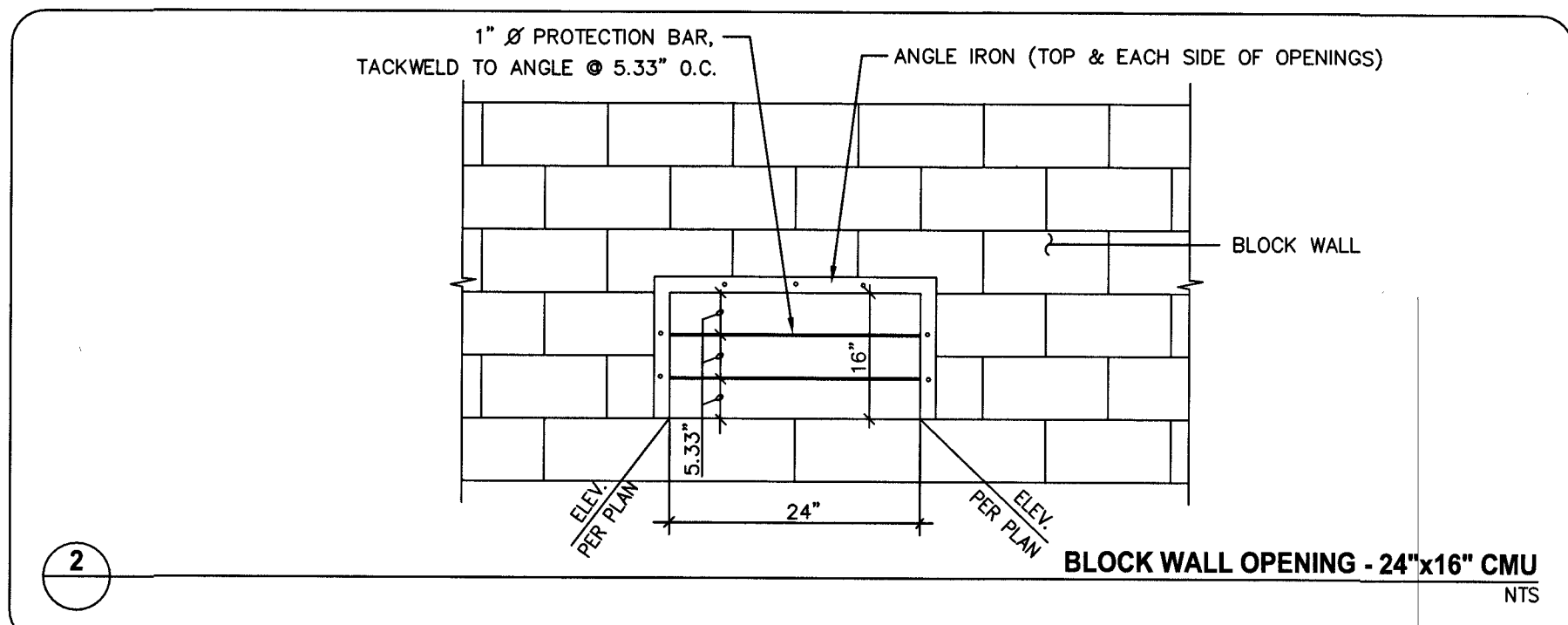
9 SIDEWALK RAMP



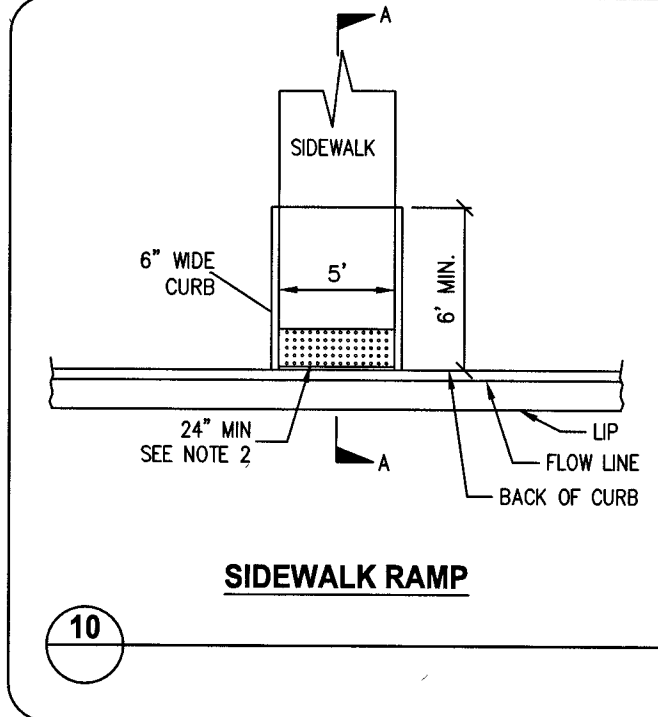
SECTION A-A SIDEWALK RAMP W/ "L" TYPE CURB NTS



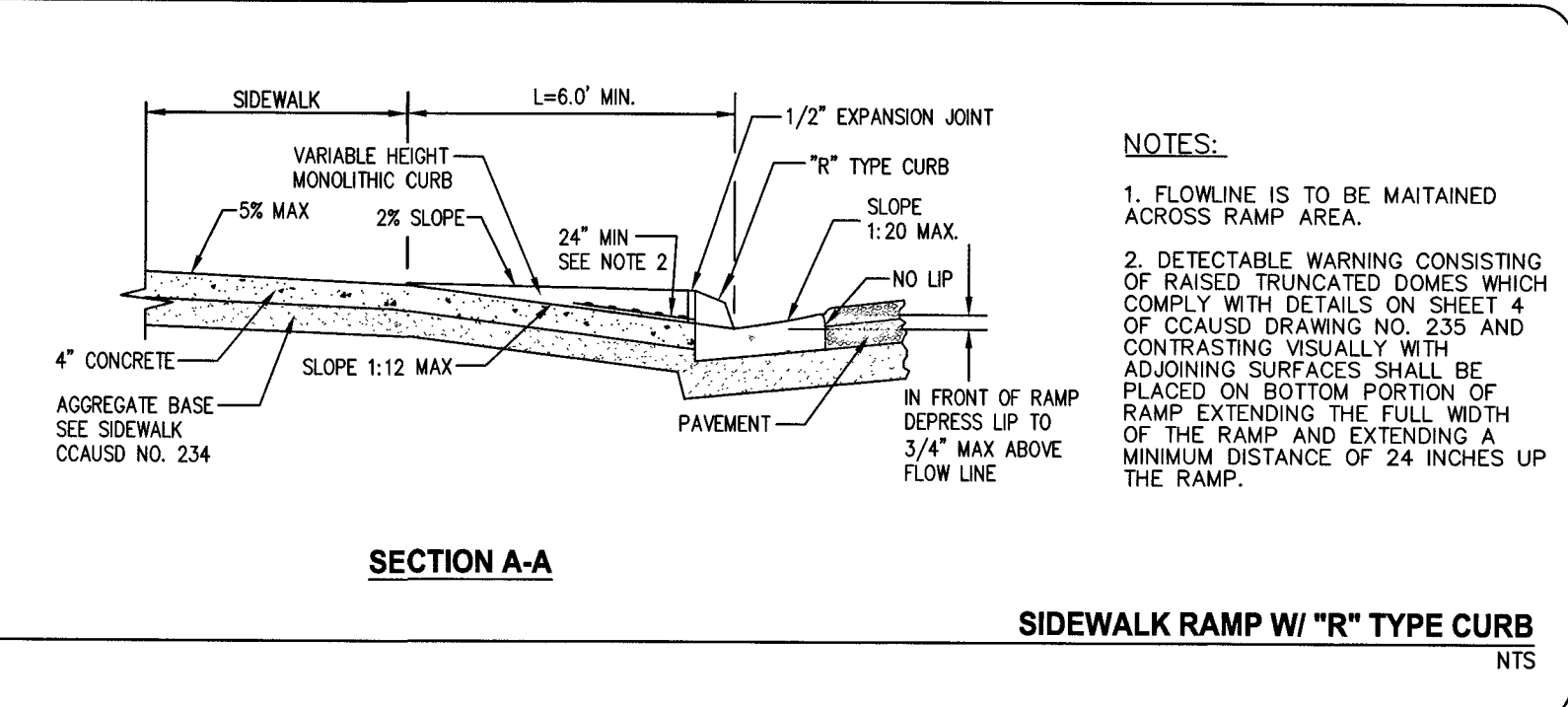
5 R-TYPE CURB OPENING NTS



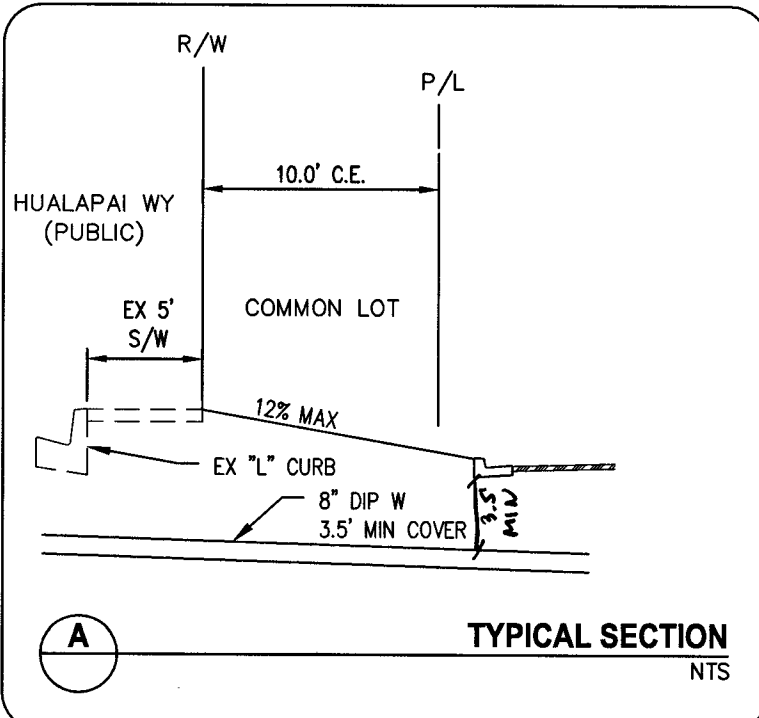
2 BLOCK WALL OPENING - 24"x16" CMU NTS



10 SIDEWALK RAMP

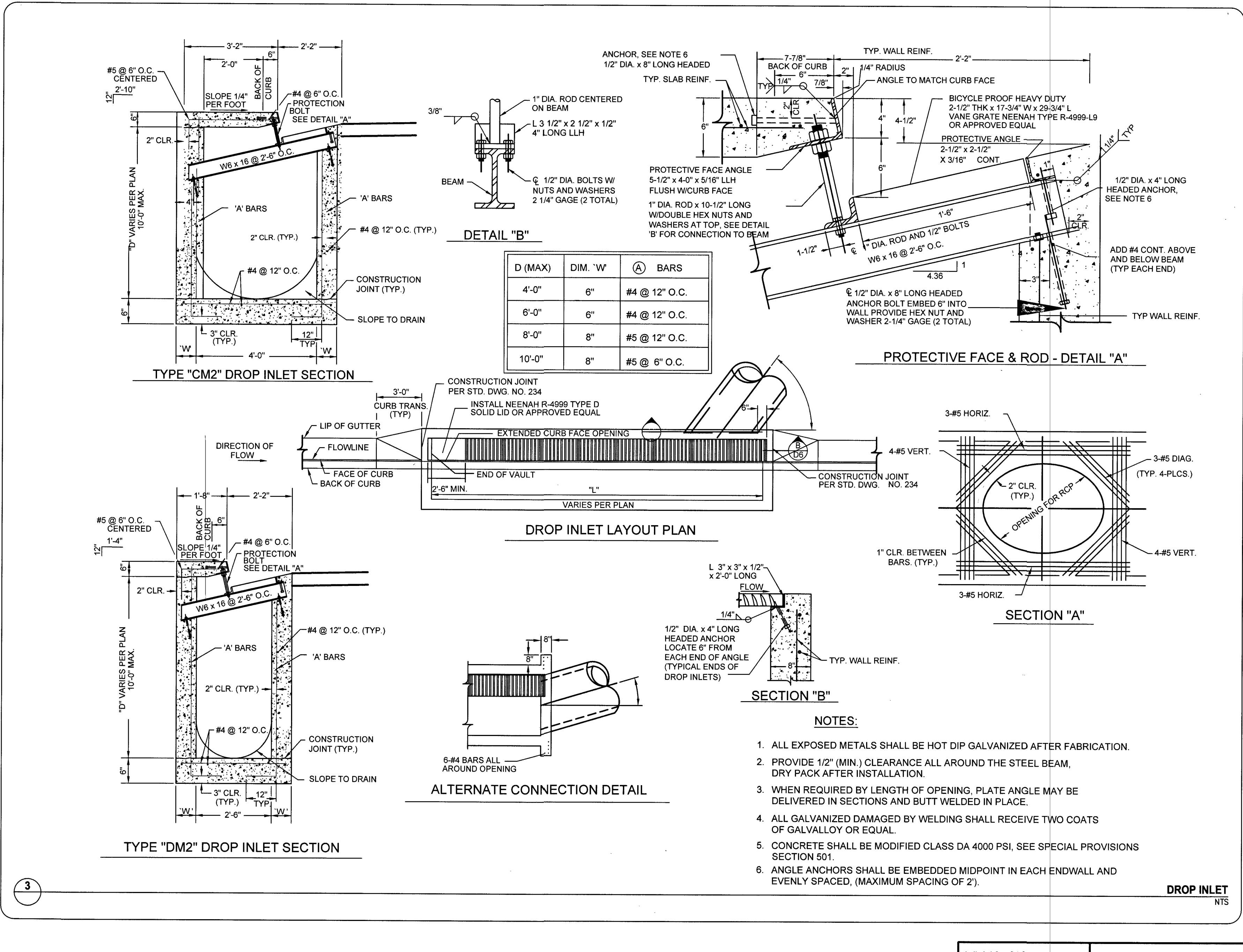


SECTION A-A SIDEWALK RAMP W/ "R" TYPE CURB NTS



A TYPICAL SECTION NTS

APPROVED FOR CONSTRUCTION
Nan Galle
LAS VEGAS VALLEY DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8-20-19
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM



3 DROP INLET NTS

STATE OF NEVADA
HAO A. NGUYEN
Professional Engineer
No. 19395
Exp. 8/31/2019

PROJECT NO. 798-003
DESIGN: 798-003
DRAWN: 798-003
CHECK: 798-003
PLOT DATE: 08-12-19
PLOT TIME: 10:11:40

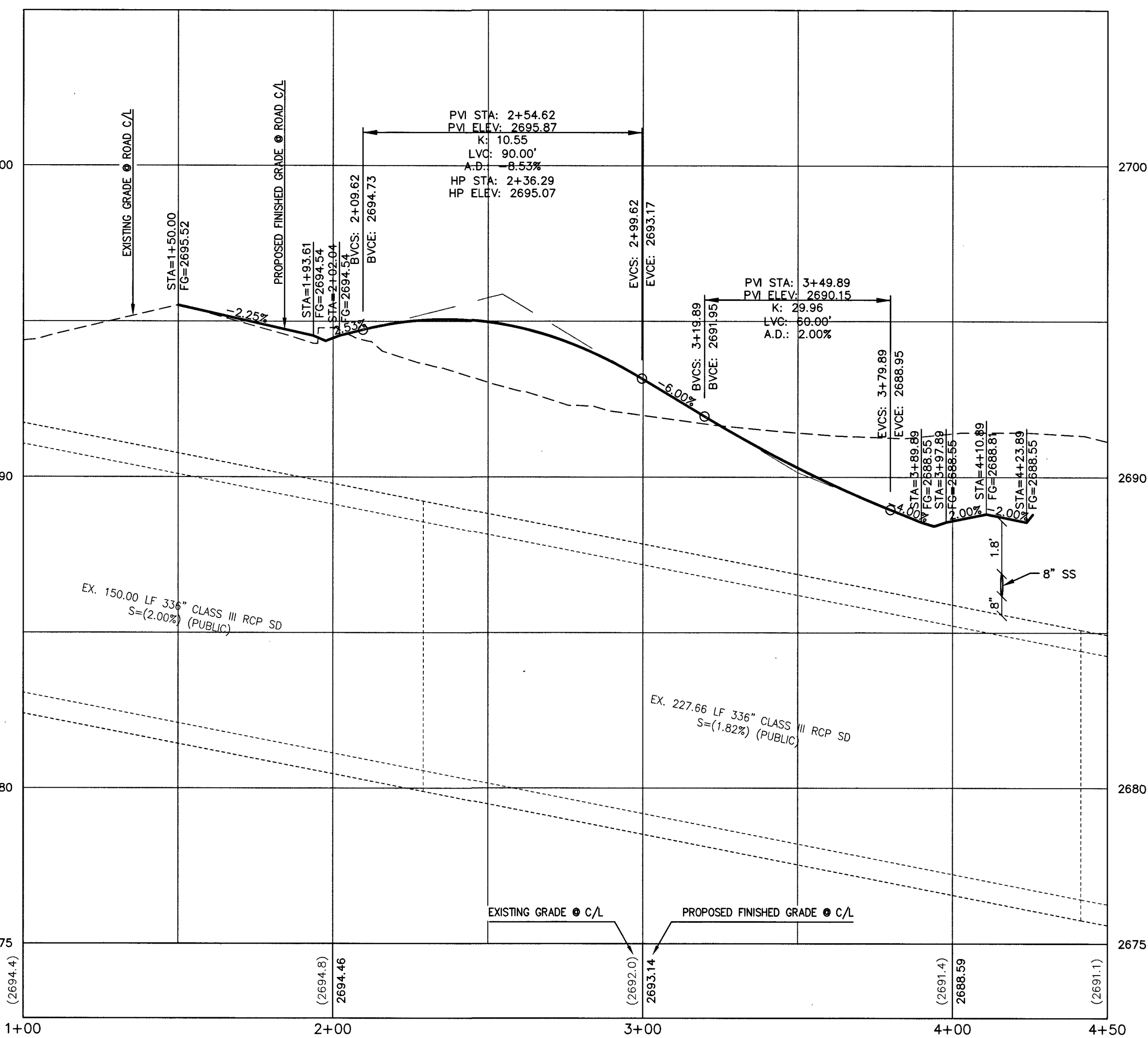
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowngengineering.com

TOUCHSTONE LIVING
HUALAPAI AND ALEXANDER
SECTIONS AND DETAILS 2

DRAWING D2
10 OF 33 SHTS

HAO NGUYEN
ENGINEERS 1 SURVEYORS
F:\PROJECTS\700\798-003\DWG\PRODUCTION\798-003CD.DWG

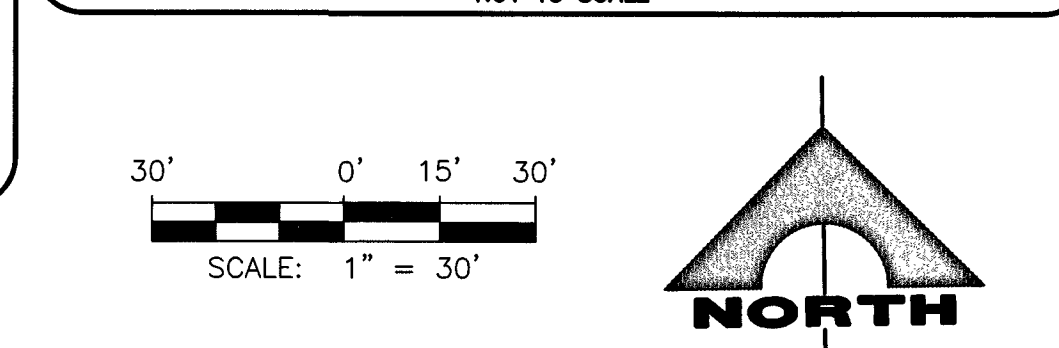
PROJ# 136495A QS:18-07-AW



AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929



APPROVED FOR CONSTRUCTION

Nan Giallo

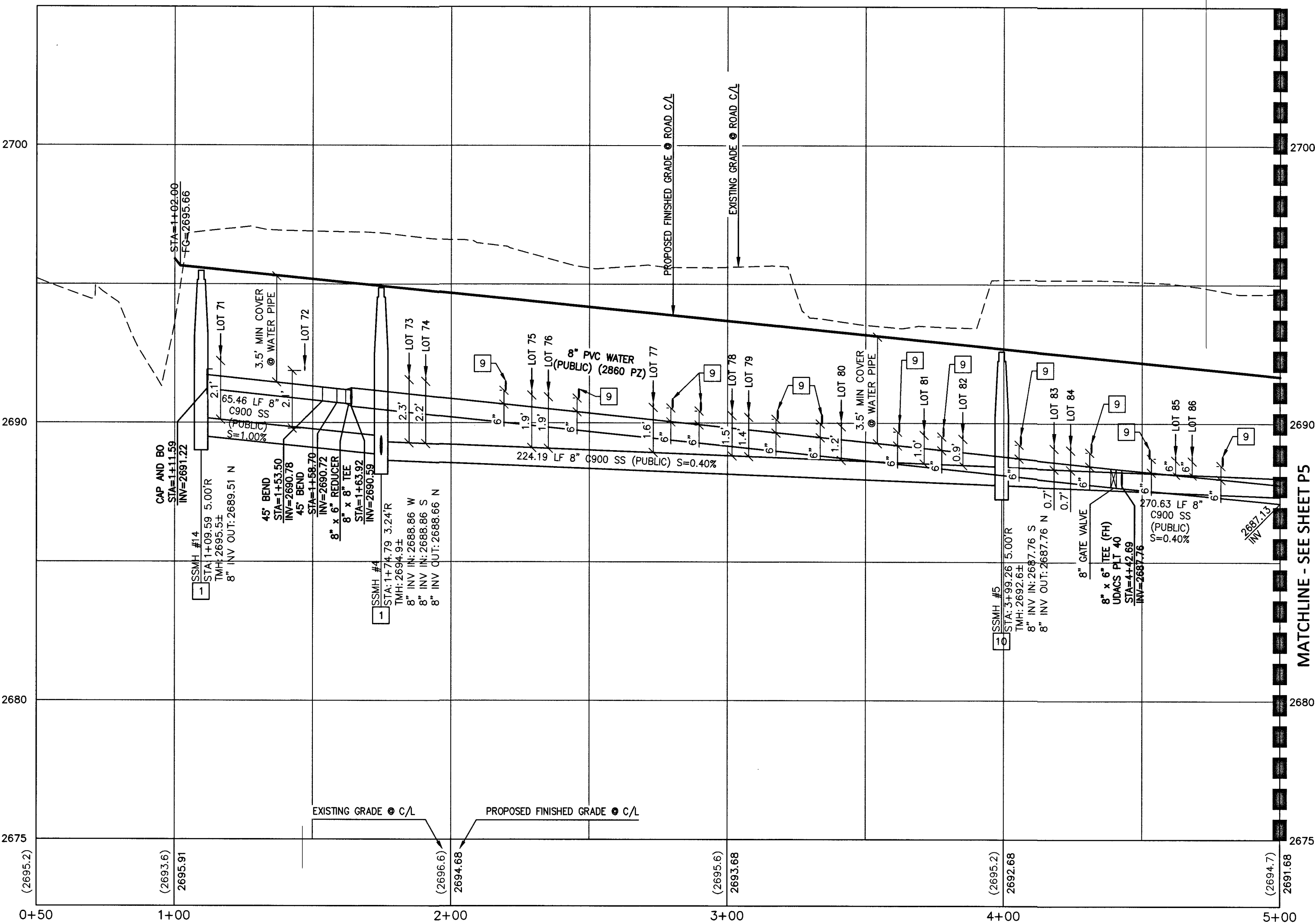
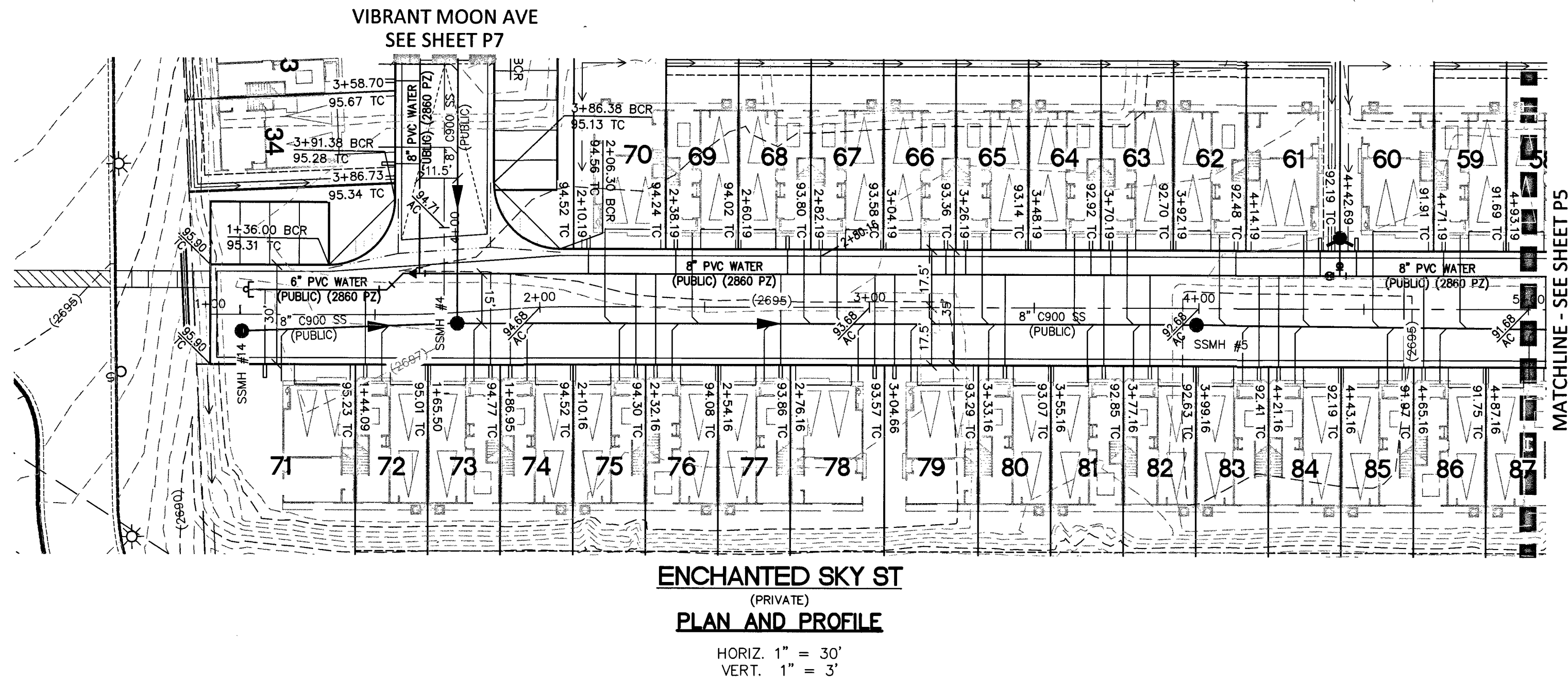
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8-20-19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

[illegible]

NO EQUIPMENT ZONE NOTE

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

I # 19-01032	CLV DWG# 107Y5108
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CONSTRUCTION NOTES

(12) RELOCATE

DROP INLET NOTE

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

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATION MAY APPLY PER UDACS 2.22.

NOTE

PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

NO EQUIPMENT ZONE NOTE

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

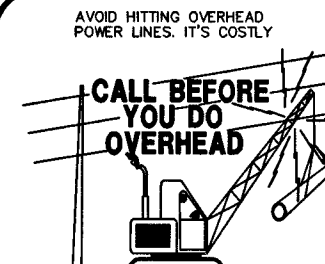
Call before you Dig
Avoid cutting underground utility lines. It's costly.



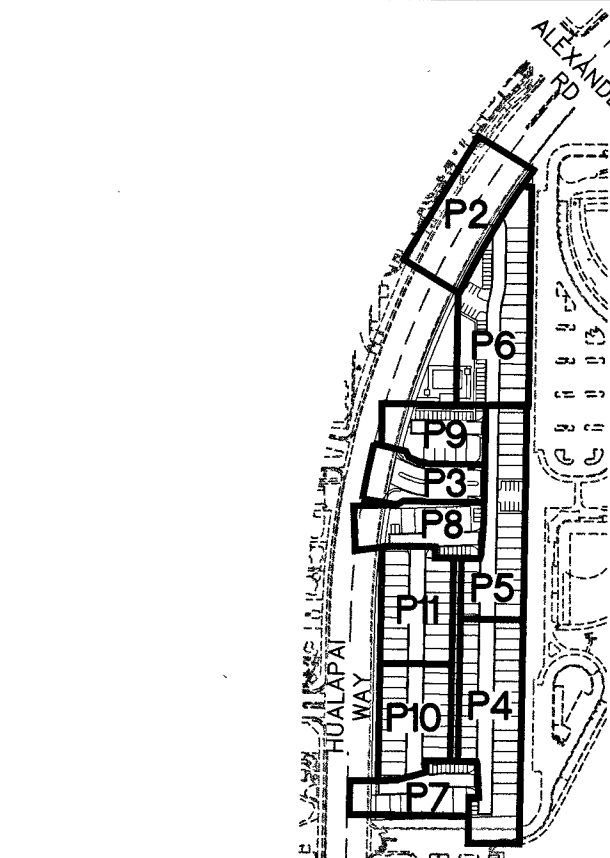
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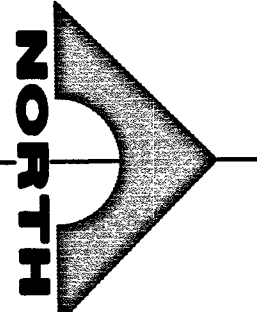
Call before you UnderGround
1-702-432-5300
FREEMAN AND WATSON SYSTEM OF TRANSPORTATION



1-702-227-2929



30' 0' 15' 30'
SCALE: 1" = 30'



CONSTRUCTION NOTES

SEWER

1. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH SINGLE 24" LID PER DCSWCS SD-1 & SD-3
5. INSTALL CORROSION PROTECTION PER DCSWCS 3.16.8.8
8. CONCRETE ENCASEMENT PER DCSWCS SD-14
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DEPTH OF COVER DURING CONSTRUCTION

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BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS) LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHING: 200,000,000 METERS (656,166,666.7 US FT)
FALSE EASTING: 100,000,000 METERS (328,083,333.3 US FT)
STANDARD PARALLEL SCALE: 1.0001 (EXACT)
LINEAR UNIT: US SURVEY FOOT (US FT)

BENCHMARK

7LV007NWMB
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AV.
ELEVATION: 2694.63

SOUTHWEST GAS APPROVAL

SOUTHWEST GAS CORP.

DATE

APPROVED FOR CONSTRUCTION

Nan D'Alto

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8.20.19
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# L19-01032

CLV DWG# 107Y5108

PROJECT NO.
798-003

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

GCW
ENGINEERS & SURVEYORS

F:\PROJECTS\798\798-003\DWG\PRODUCTION\798-003CP.DWG
BRADY GUZMAN

TOUCHSTONE LIVING

HUALAPAI AND ALEXANDER

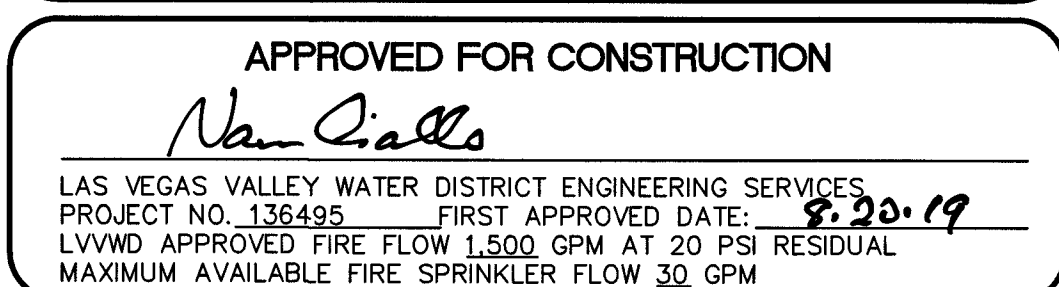
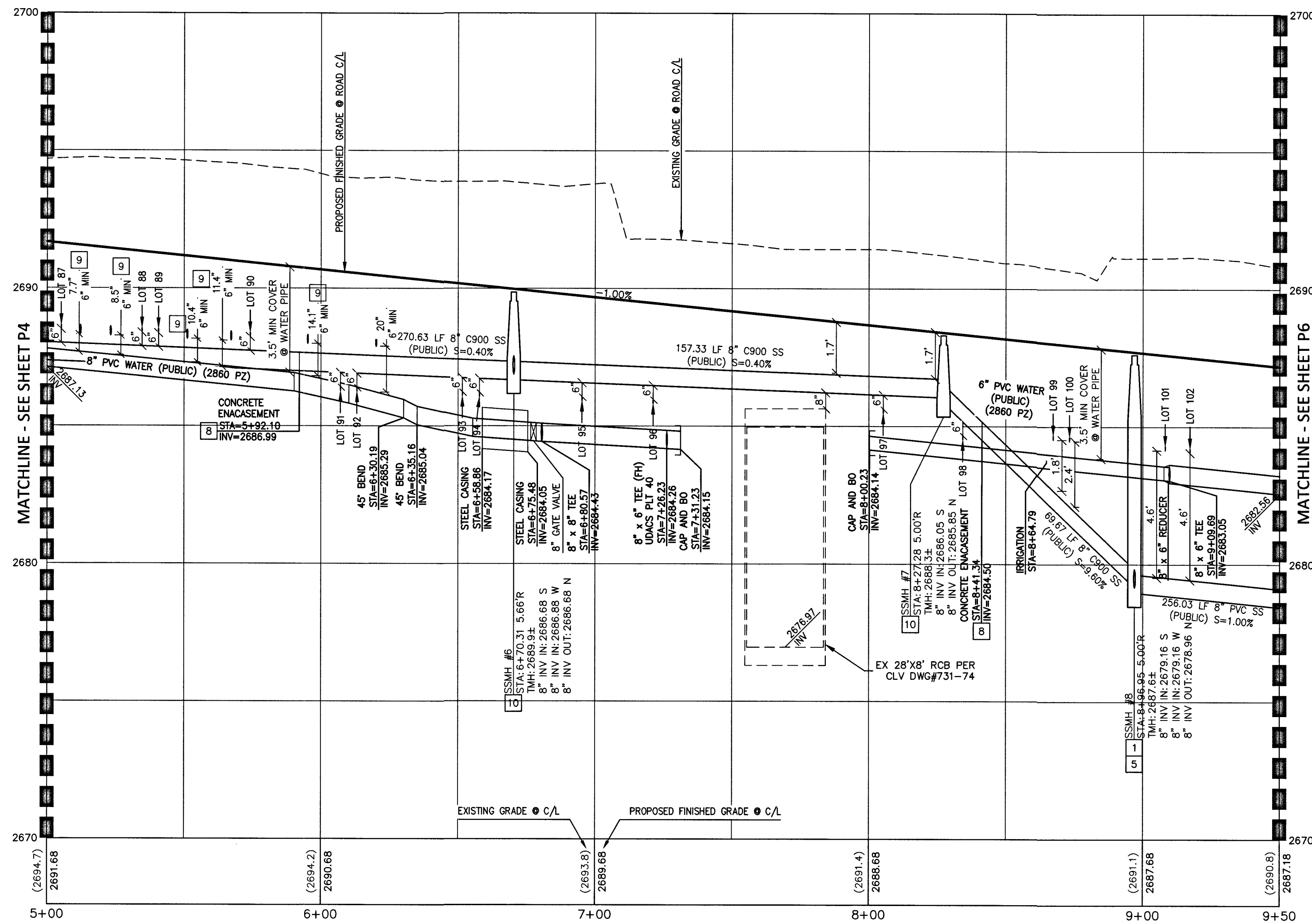
ENCHANTED SKY ST PLAN AND PROFILE
STA 0+50 TO 5+00

DRAWING

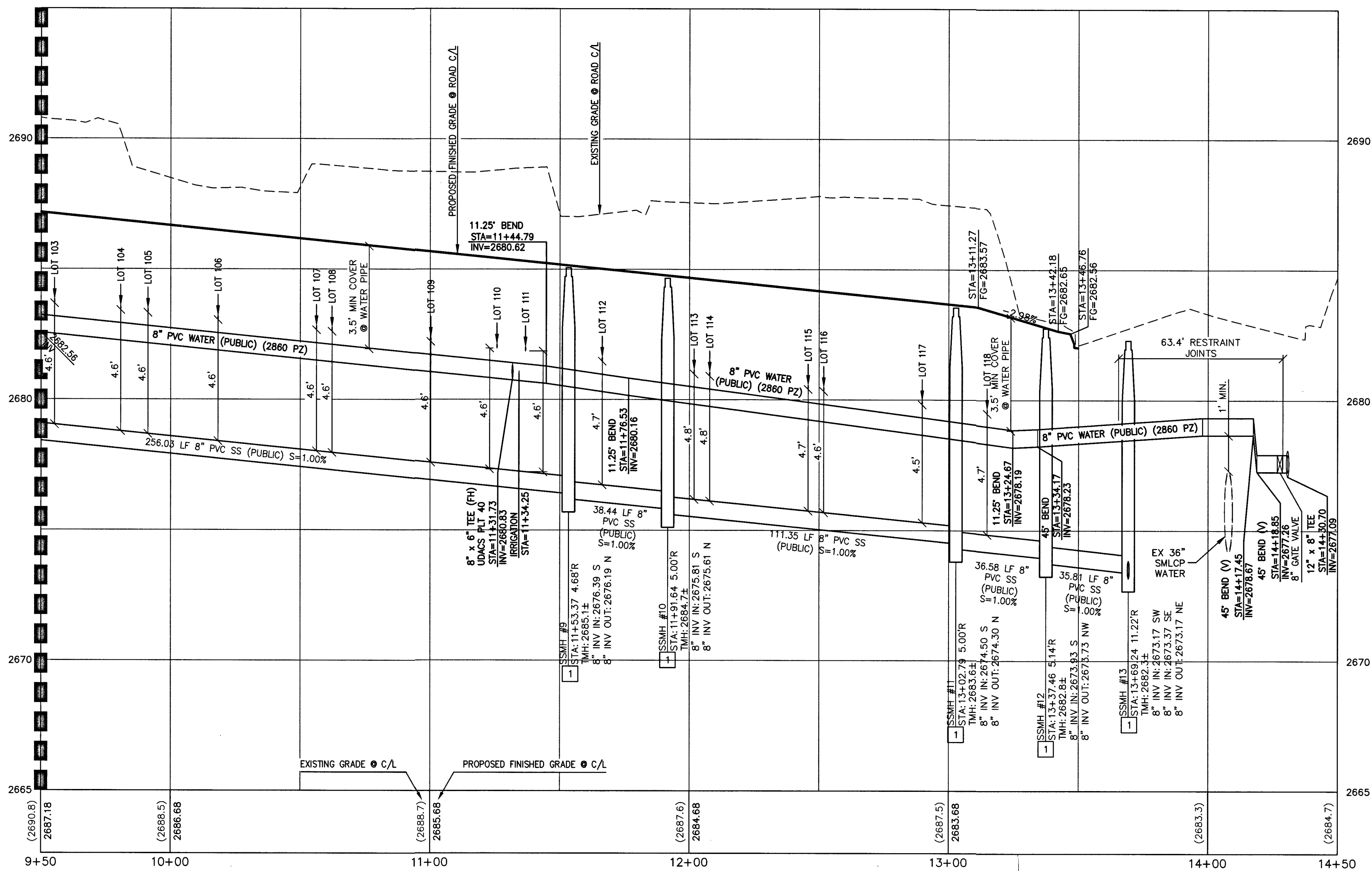
P4

14 OF 33 SHTS

PROJ# 136495A QS:138-07-NW



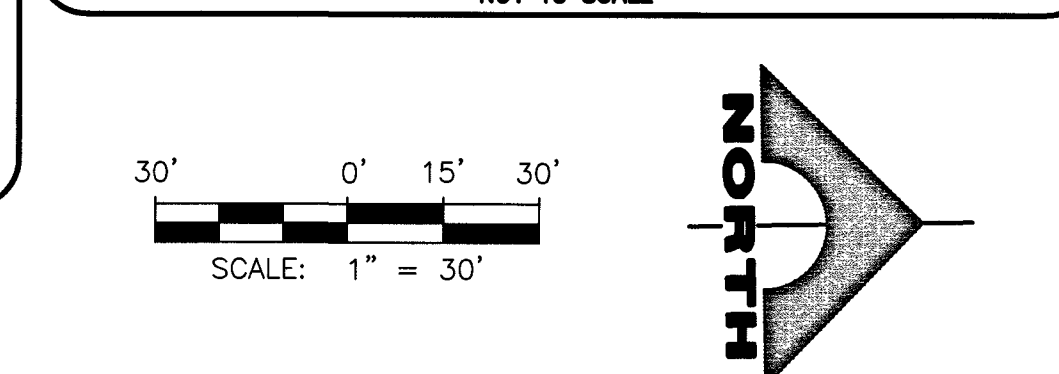
L# L19-01032	CLV DWG# 107Y5108
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929



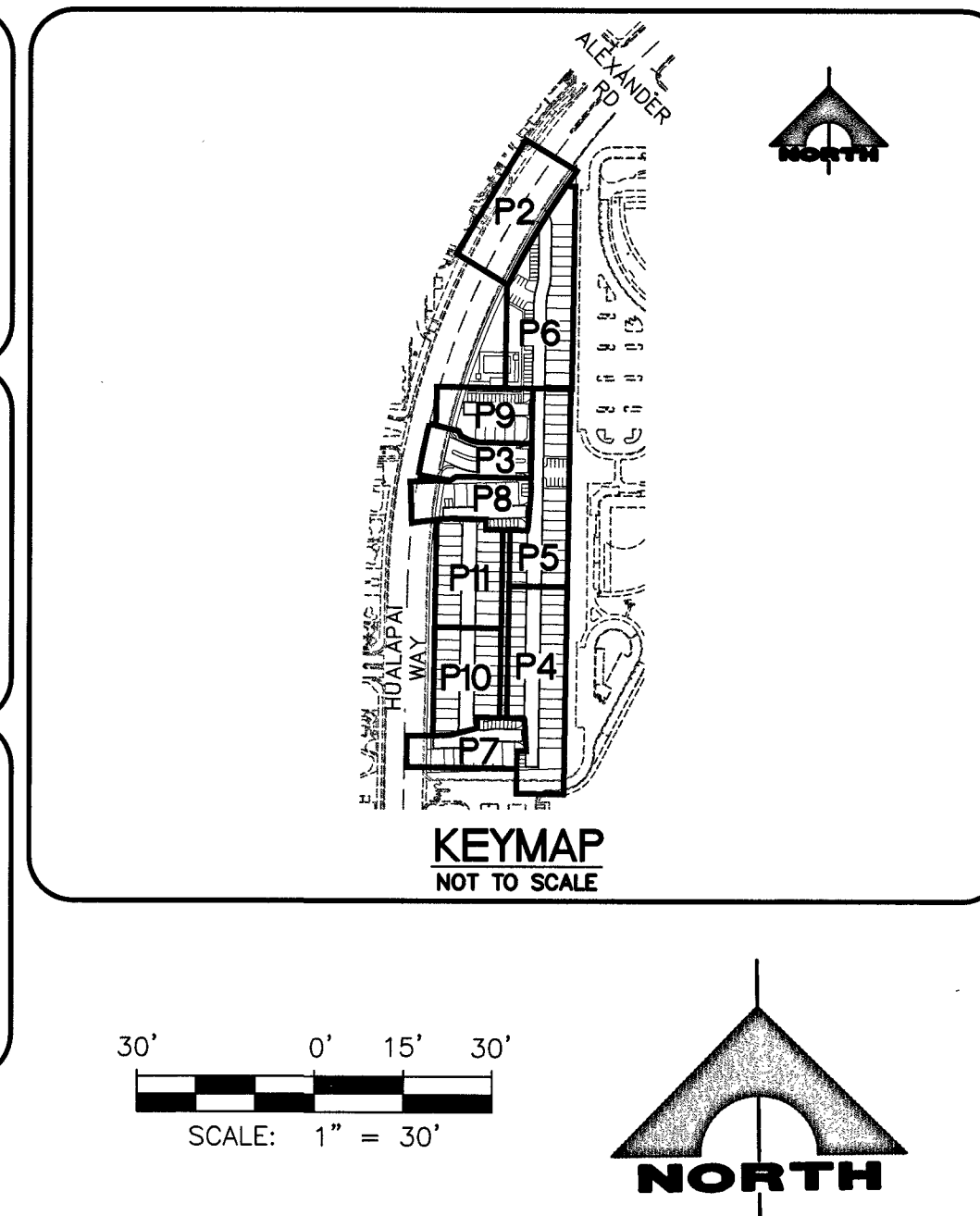
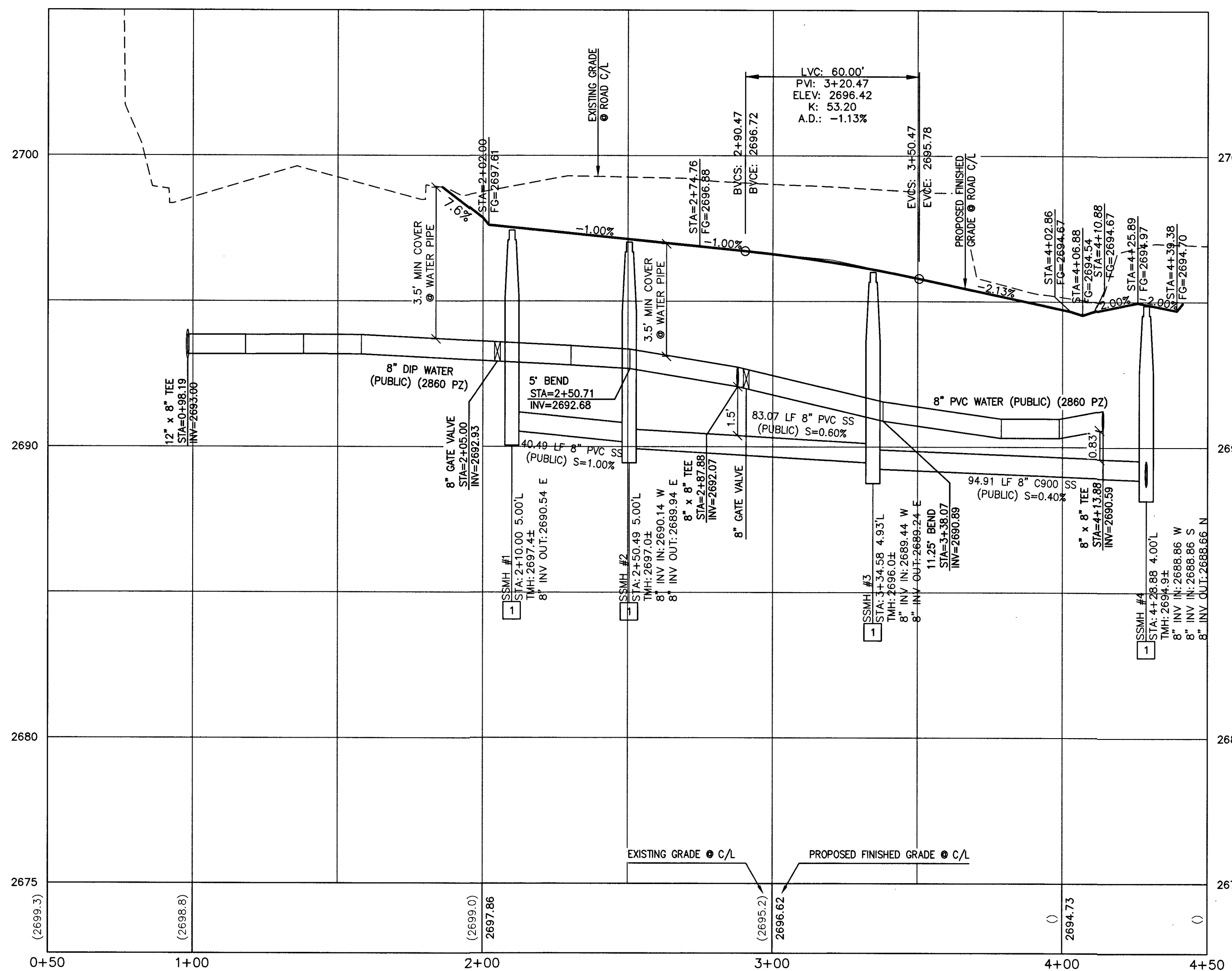
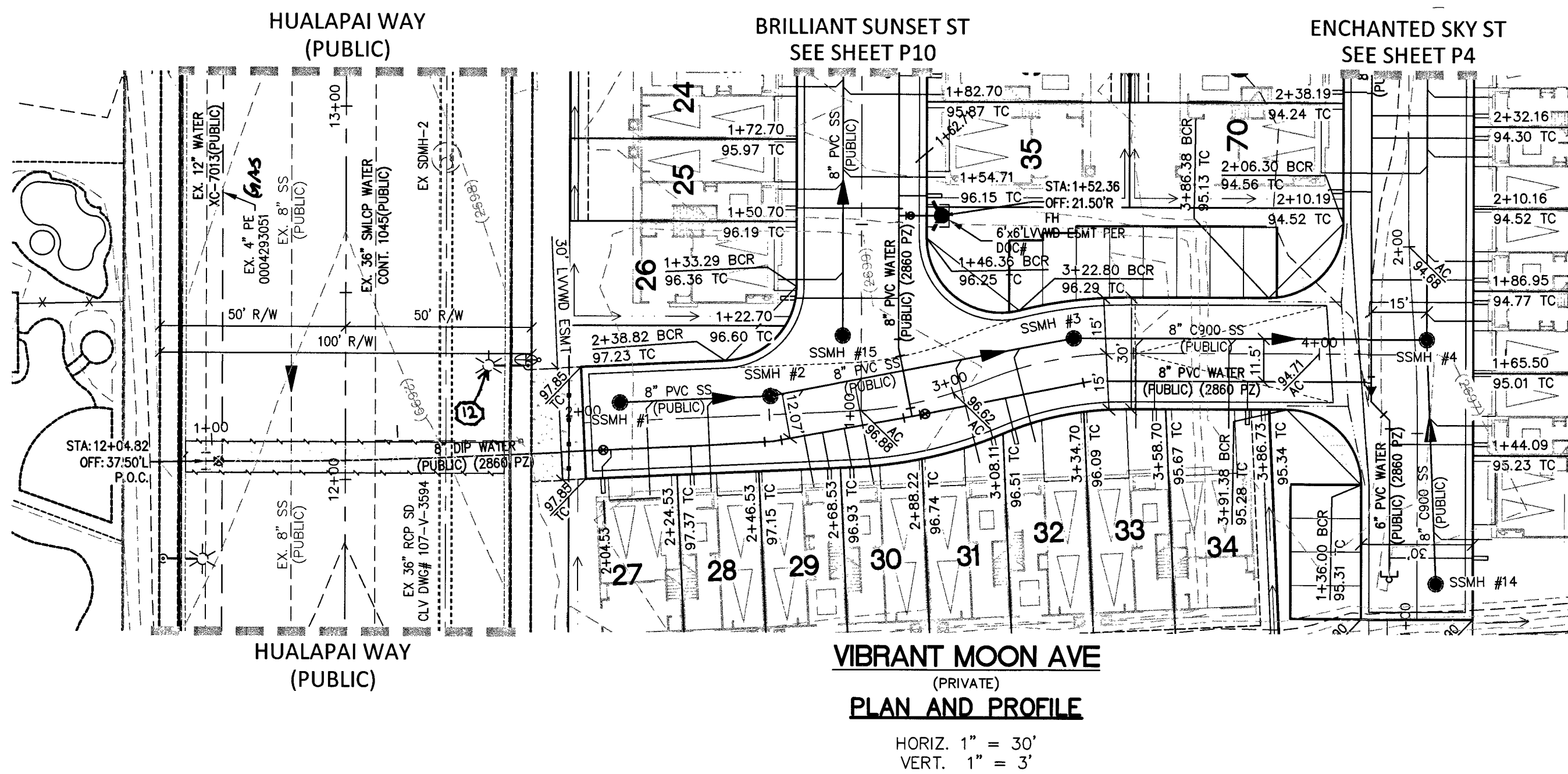
APPROVED FOR CONSTRUCTION

Nan Sialle

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8-20-19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

TOUCHSTONE LIVING HUALAPAI AND ALEXANDER ENCHANTED SKY ST PLAN AND PROFILE STA 9+50 TO 14+50	DRAWING P6 16 OF 33 SHEETS

PROJ.#:136495A QS:138-07-NW



CONSTRUCTION NOTES			
SEWER			
1	INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH SINGLE 24" LID PER DCSWCS SD-1 & SD-3		
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ZONE: LAS VEGAS ZONE

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CENTRAL MERIDIAN: 114°58'00" W

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STANDARD PARALLEL SCALE: 1.0001 (EXACT)

LINEAR UNIT: US SURVEY FOOT (US FT)

BENCHMARK

7LV007NWMW

RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AV.

ELEVATION: 2694.63

SOUTHWEST GAS APPROVAL

Paula Kennedy 8-15-19

SOUTHWEST GAS CORP. DATE

APPROVED FOR CONSTRUCTION

Nam Salls 8-20-19

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136495 FIRST APPROVED DATE: 8-20-19

LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# L19-01032 CLV DWG# 107Y5108

STATE OF NEVADA
HAO A. NGUYEN
Exp. 12/31/2019
Professional Engineer

PROJECT NO. 798-003

DESIGN: DRAWN: CHECK: PLOT DATE: 08-12-19 PLOT TIME: 14:42:00

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

ENGINEERS & SURVEYORS

HAO NGUYEN

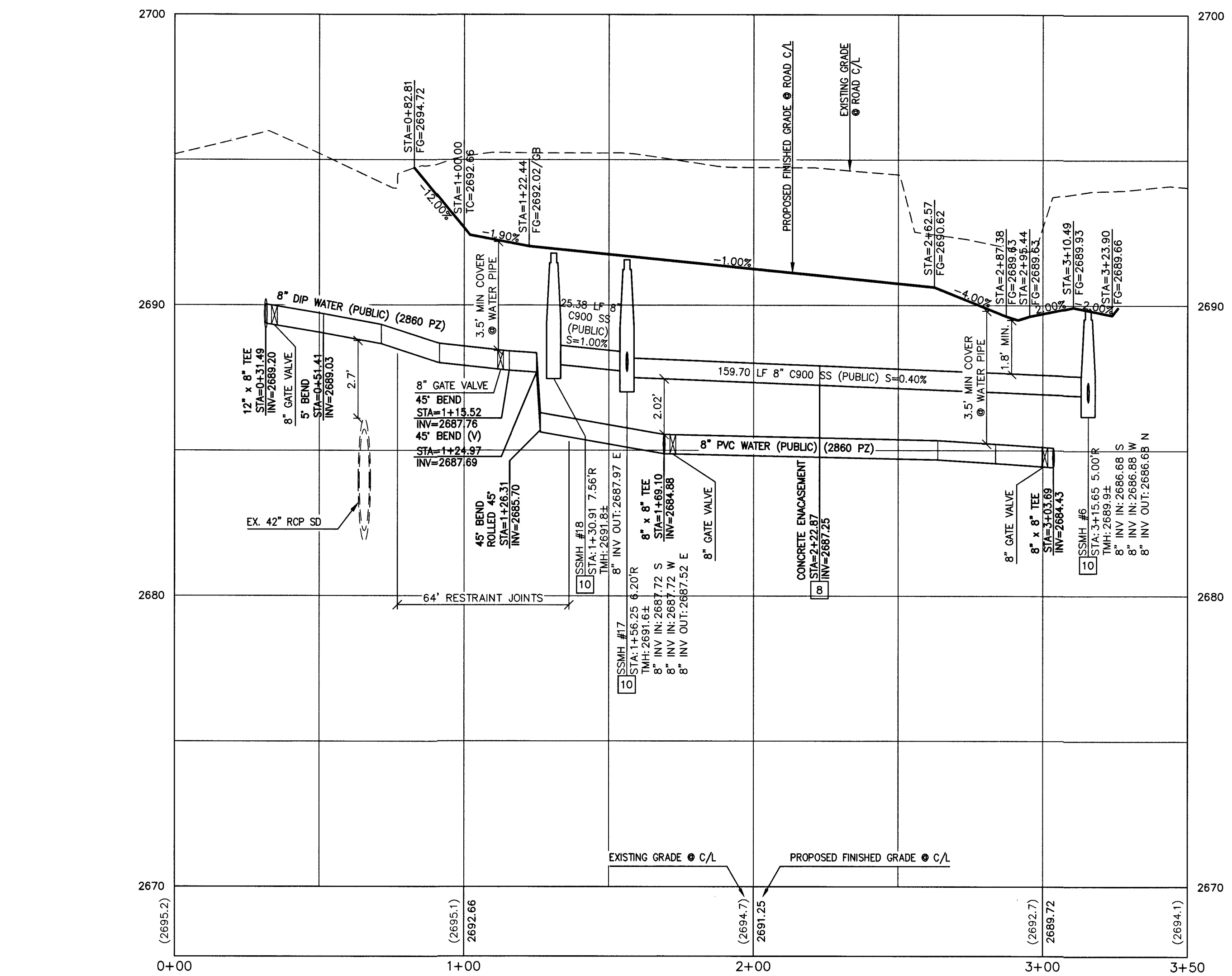
TOUCHSTONE LIVING

HUALAPAI AND ALEXANDER

VIBRANT MOON AVE PLAN AND PROFILE

DRAWING P7 17 OF 33 SHTS

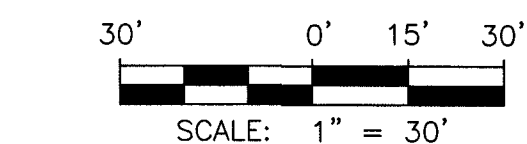
PROJ.# 136495A QS:136-07-NW



APPROVED FOR CONSTRUCTION

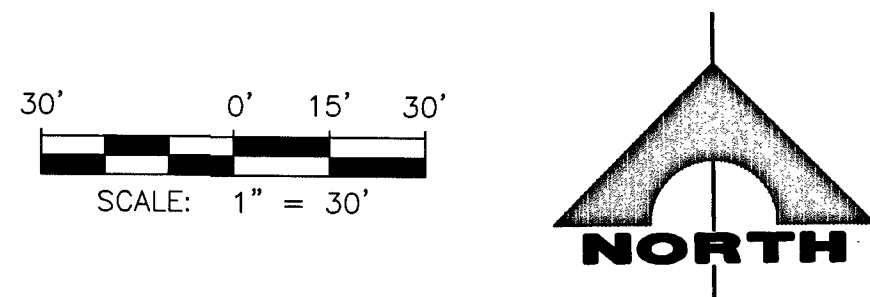
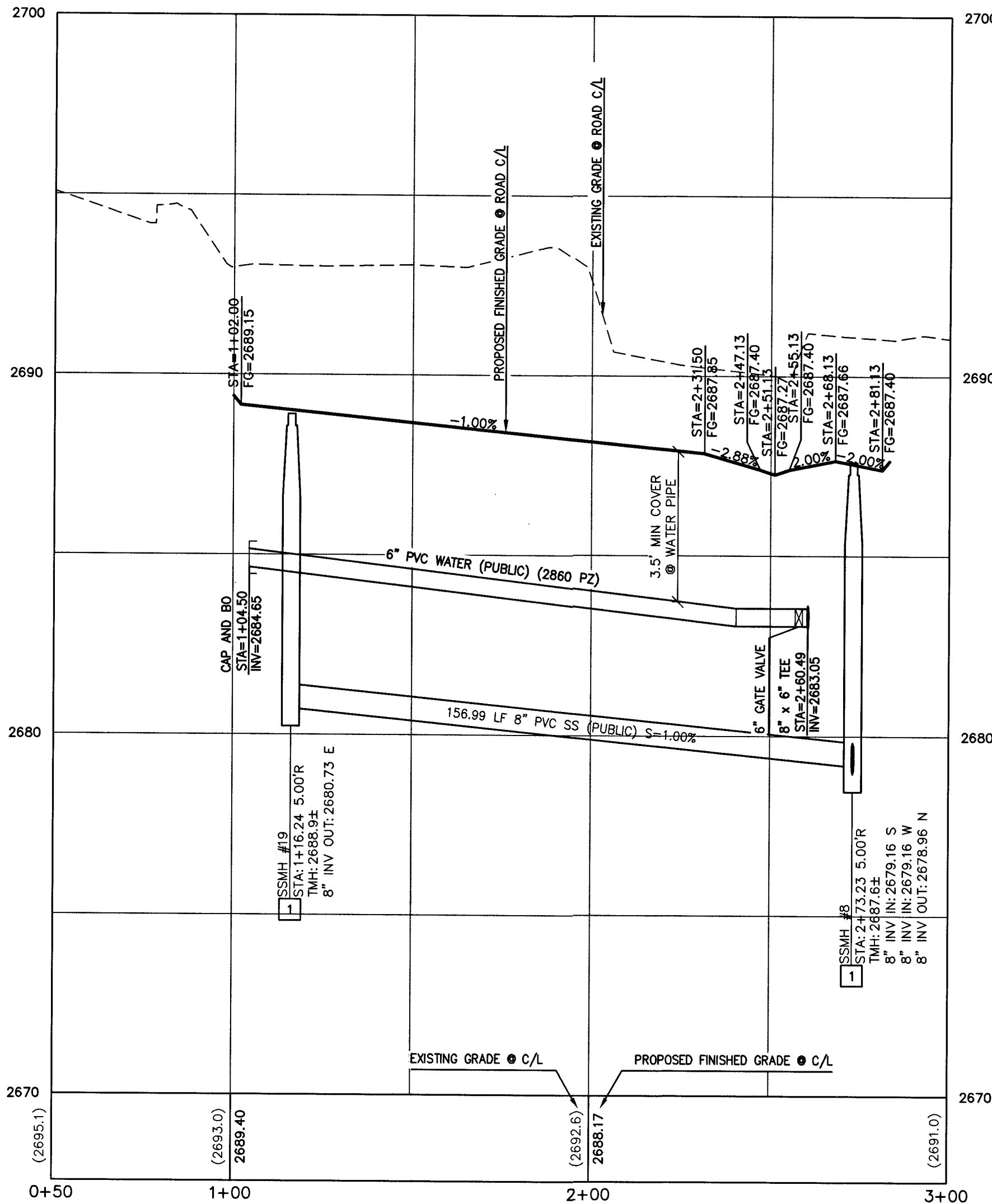
N. Giallo

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8-20-19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM



DATE: 08-14-19

DDO 14 43040FA CC-430 07 A1107



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COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH
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LINEAR UNIT: US SURVEY FOOT (US FT)

7LV007NWW6
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AV.
ELEVATION: 2694.63

Pamela Kennedy 8.15.19
SOUTHWEST GAS CORP. DATE

Non Siak

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: *8-20-19*
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

CLV DWG# 107Y5108

12 RELOCATE

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

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATION MAY APPLY PER UDACS 2.22.

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

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

TOUCHSTONE LIVING

HUALAPAI AND ALEXANDER

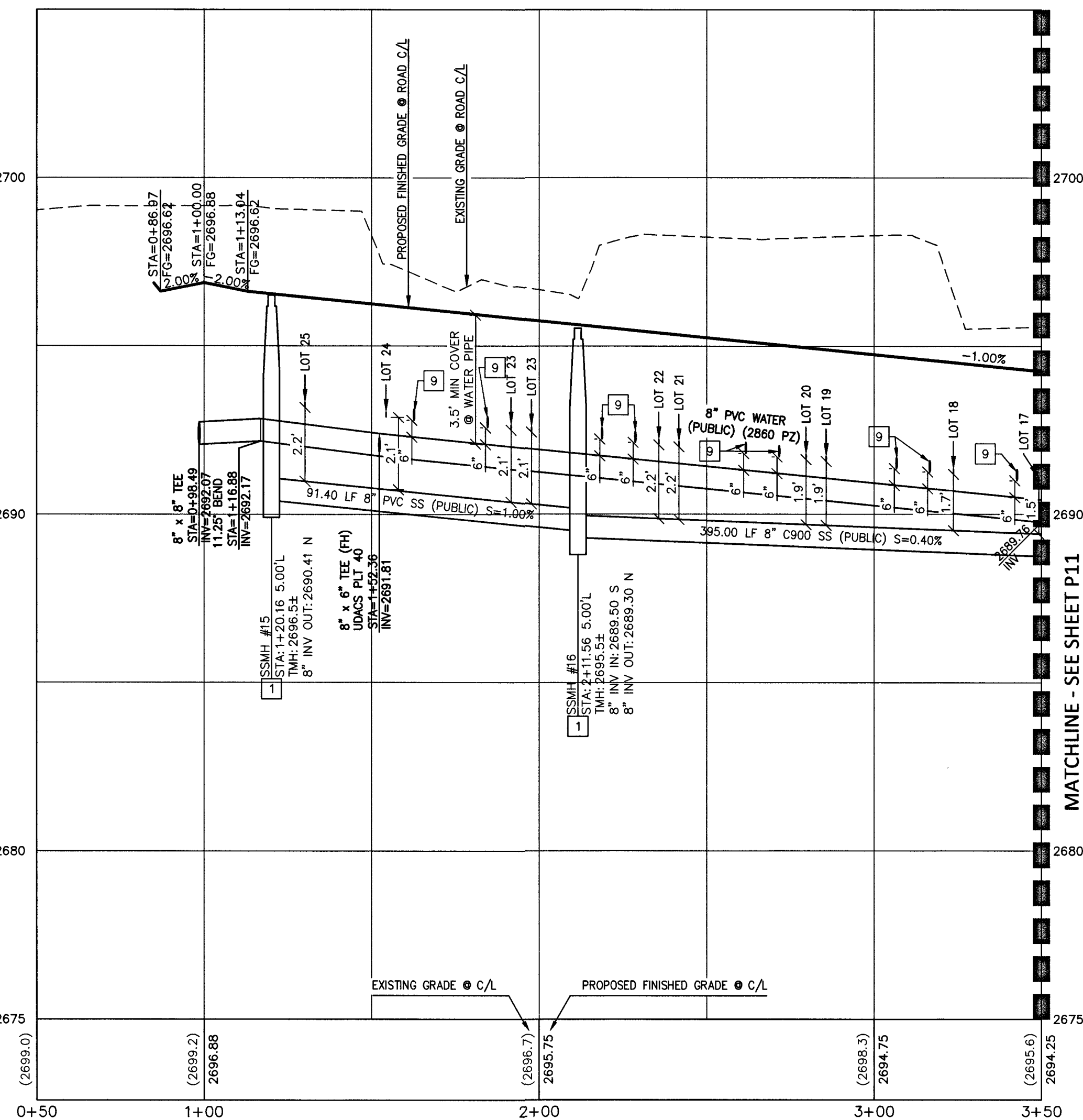
DAZZLING SUNRAYS AVE PLAN AND PROFILE

DRAWING

pg

19 OF 33 SHTS

PROJ#:136495A QS:138-07-NW



MATCHLINE - SEE SHEET P11

APPROVED FOR CONSTRUCTION

Nan Giallo

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136495 FIRST APPROVED DATE: 8-20-19
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

DATE: 08-13-19

PROJECT NO.
798-003

DESIGN: _____
DRAWN: _____
CHECK: _____
PLOT DATE: 08-13-19
PLOT TIME: 14:20:17

GCI
ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2289
gowingengineering.com

PROJECTS 700-798-003, DWG/PRODUCTION 798-003CP, DWG
BRADY GUZMAN

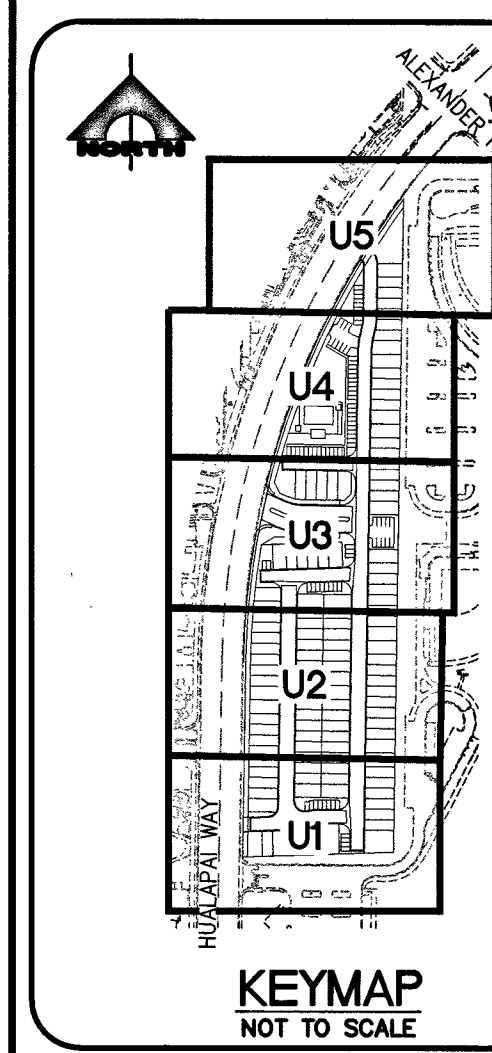
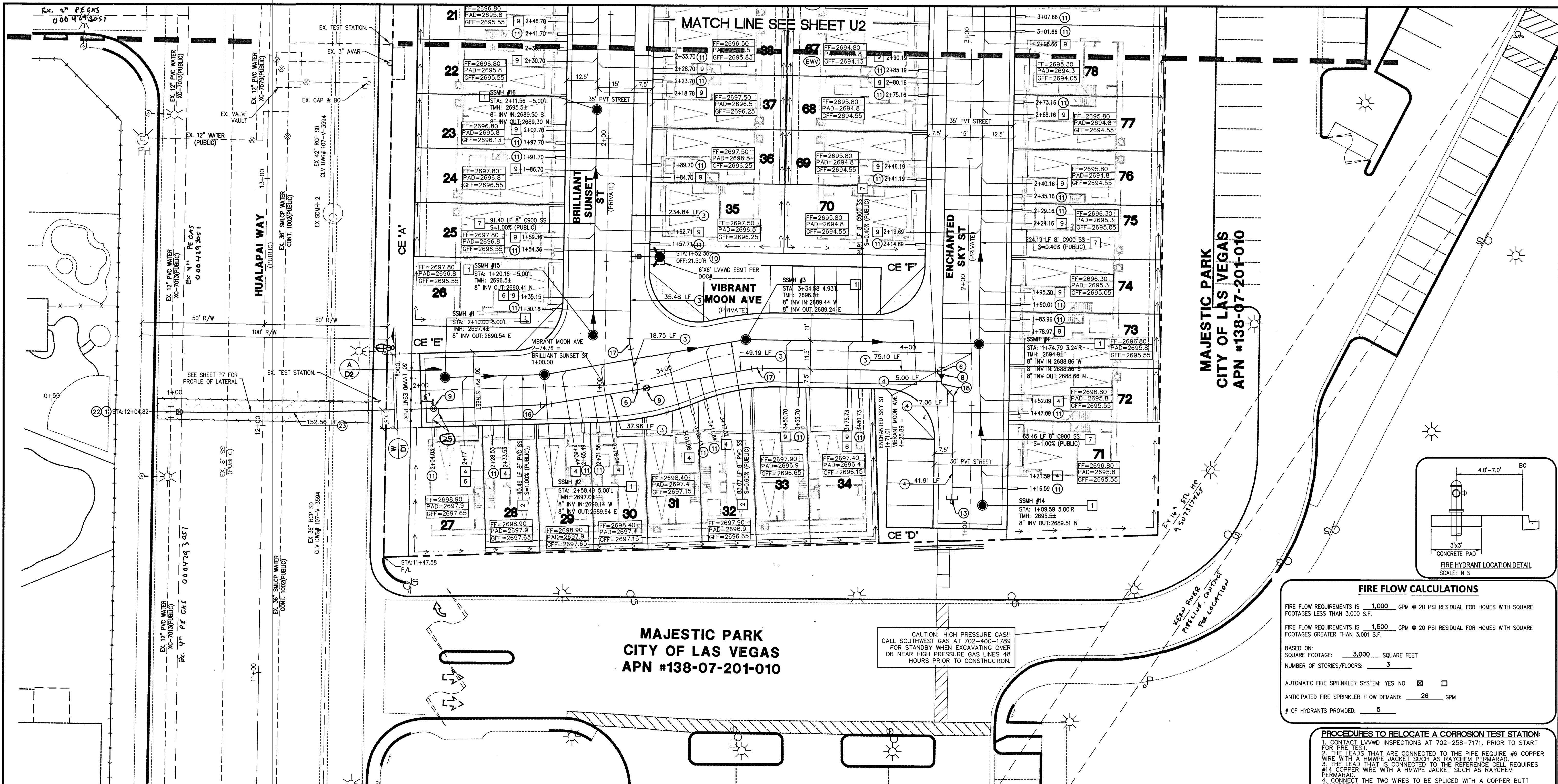
TOUCHSTONE LIVING

HUALAPAI AND ALEXANDER

BRILLIANT SUNSET ST PLAN AND PHASE 2
STA 0+50 TO 3+50

DRAWING
P10
20 OF 33 SHTS

PROJ#:136495A QS:138-07-NW



FAST
Call before you Dig
1-702-432-5300
FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION

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POWER LINES. IT'S COSTLY

CALL BEFORE
YOU DO
OVERHEAD

1-702-227-2929

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

OR
1-800-227-2600

CONSTRUCTION NOTES

WATER

- CONNECT TO EXISTING WATER LINE. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION
- INSTALL 12" PVC WATER PIPE
- INSTALL 8" PVC WATER PIPE
- INSTALL 6" PVC WATER PIPE
- INSTALL 12" x 8" TEE PER UDACS PLATE NO. 31.
- INSTALL 8" x 8" TEE PER UDACS PLATE NO. 31.
- INSTALL 8" x 8" TEE PER UDACS PLATE NO. 31.
- INSTALL 8" x 8" TEE PER UDACS PLATE NO. 31.
- INSTALL 8" x 8" REDUCER PER UDACS PLATE NO. 30.
- INSTALL GATE VALVE, BOX, AND COVER SAME SIZE AS LINE PER UDACS PLATE NO. 30 & 31.
- INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
- INSTALL 1" WATER SERVICE (DOMESTIC) WITH 3/4" WATER METER PER UDACS PLATE NO. 1 (TYP).
- INSTALL 1" IRRIGATION METER WITH 1" RPPA PER UDACS PLATE NO. 4, 8 AND DETAIL ON SHEET C3.
- INSTALL 6" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 36.
- INSTALL IRRIGATION SLEEVES
- INSTALL STEEL CASING PER UDACS PLATE NO. 22 & 23.
- INSTALL 5" BEND SAME SIZE AS LINE
- INSTALL 11.25" BEND SAME SIZE AS LINE PER UDACS PLATE NO. 31.
- INSTALL 45° BEND SAME SIZE AS LINE PER UDACS PLATE NO. 31.
- INSTALL 45° VERTICAL BEND WITH RESTRAINT JOINT AND THRUST BLOCK PER UDACS PLATE NO. 30 & 31.
- INSTALL MANHOLED 1" IRRIGATION METER WITH TWO 1" RPPA'S PER UDACS PLATE NO. 4, 9 AND DETAIL ON SHEET C3.
- INSTALL 12" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 36.
- INSTALL 12" x 8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS SECTION 2.2401.B
- INSTALL 8" DIP WATER PIPE
- INSTALL 8" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 36.

CONSTRUCTION NOTES

SEWER

- INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH SINGLE 24" LID PER DCSWCS SD-1 & SD-3.
- INSTALL 8" PVC SANITARY SEWER PIPE.
- CONNECT TO EXISTING SANITARY SEWER. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION
- INSTALL 4" SEWER LATERAL PER DCSWCS SD-20 (TYP)
- INSTALL CORROSION PROTECTION PER DCSWCS 316.8.B
- INSTALL CLEANOUT WITH TRAFFIC RATED LID PER DCSWCS SD-24 IN DRIVEWAY
- INSTALL 8" C900 SANITARY SEWER PIPE.
- CONCRETE ENCASMENT PER DCSWCS SD-14
- CONSTRUCT 4" C-900 SEWER LATERAL PER DCSWCS SD-20 AND SD-21.
- MINIMUM 5" VERTICAL SEPARATION BETWEEN WATER AND SEWER
- CONSTRUCT SPECIAL SHALLOW MANHOLES PER DCSWCS SD-13

CONTRACTOR NOTE
WATER MAIN JOINT DEFLECTION (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 MINIMUM RADIUS OF CURVATURE OF 1,150 FEET. PER UDACS 2.07.01 AND 2.07.03.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.
EASEMENTS WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE
TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIALS SHALL BE DESIGNED AND CONSTRUCTED AROUND EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE UTILITIES, BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

WATER

- MARKER BALLS PER UDACS PLT.15
- DROP INLET, SEE DETAIL 3 ON SHEET D2 FOR 3" CURB TRANSITION

GENERAL NOTES

- ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- WATER SERVICE LATERALS SHALL BE INSTALLED PER UDACS SECTION 2.17.
- INSTALL PIPE DETECTOR RIBBON PER UDACS PLATE NO. 15.
- LOCATOR WIRE SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN (TYPICAL).
- 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 PROPER LOCATION.
- MIN. 12" VERTICAL CLEARANCE BETWEEN WATER MAINS AND DRY LATERALS PER UDACS SECTION 2.04.06
- MIN. 12" VERTICAL CLEARANCE REQUIRED BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06
- INSTALL PIPE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15
- ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL
- ALL NEW MANHOLES TO HAVE PRE-CAST BASES
- INSTALL 12" x 8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS ELBOW FITTING PER UDACS PLATE NO. 15
- PROTECT EXISTING UTILITIES AND ADJUST EXISTING FACILITIES TO FINISHED GRADE. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED
- THE 1" TEST HOLE UNIFORM PLUMBING CODE MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
- FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALKS.

SOUTHWEST GAS APPROVAL

Renee Kennedy 8-15-19
SOUTHWEST GAS CORP. DATE

NOTE TO CONTRACTOR
EXISTING UTILITY LOCATIONS SHOWN HEREON 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 PROPER LOCATION.

NOTE:
ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL, KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

BENCHMARK
7LV007NWW
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AV.
ELEVATION: 2694.63

SCALE: 1" = 20'

North Arrow

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 1,000 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES LESS THAN 3,000 S.F.

FIRE FLOW REQUIREMENTS IS 1,500 GPM @ 20 PSI RESIDUAL FOR HOMES WITH SQUARE FOOTAGES GREATER THAN 3,001 S.F.

BASED ON:
SQUARE FOOTAGE: 3,000 SQUARE FEET
NUMBER OF STORIES/FLOORS: 3

AUTOMATIC FIRE SPRINKLER SYSTEM: YES ☐ NO ☒

ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 26 GPM

OF HYDRANTS PROVIDED: 5

PROCEDURES TO RELOCATE A CORROSION TEST STATION:

- CONTACT LVWD INSPECTIONS AT 702-258-7171, PRIOR TO START FOR PRE-TEST.
- THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #6 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
- THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
- CONNECT THE TWO WIRES TO BE SPliced WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
- MAKE EACH SPlice USING A 3M SCOTCHCAST RESIN SPLICING KIT.
- RECONNECT THE TEST BOARD TO PROPER LEADS, AND PLACE THE TEST BOX AT THE NEW LOCATION.
- THE TEST BOX AT THE NEW SITE WILL BE INSTALLED ACCORDING TO THE TYPICAL TEST BOX DETAIL.
- ALL TEST LEADS AND ANODE LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON TIES AND SHALL BE PROVIDED WITH A MINIMUM OF 4 FEET OF SLACK.
- ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED TAPE AT EACH END, AND AT 4 FEET INTERVALS.
- SCHEDULE FINAL TEST WITH LVWD INSPECTIONS

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE

STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N

CENTRAL MERIDIAN: 114°58'00" W

FALSE NORTING: 200,000.000 METERS (656,166.667 US FT)

FALSE EASTING: 100,000.000 METERS (328,083.333 US FT)

STANDARD PARALLEL SCALE: 1.0001 (EXACT)

LINEAR UNIT: US SURVEY FOOT (US FT)

APPROVED FOR CONSTRUCTION

N. Dials
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136485
LVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

8-20-19

APPROVED FOR CONSTRUCTION

h *h* *h*
LAS VEGAS FIRE AND RESCUE
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AV.
ELEVATION: 2694.63

DATE

L# L19-01032 CLV DWG# 107Y5108

PROJECT NO. 798-003
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 08-09-19
PLOT TIME: 14:46:07

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

ENGINEERS & SURVEYORS

TOUCHSTONE LIVING
HUALAPAI AND ALEXANDER
UTILITY PLAN 1

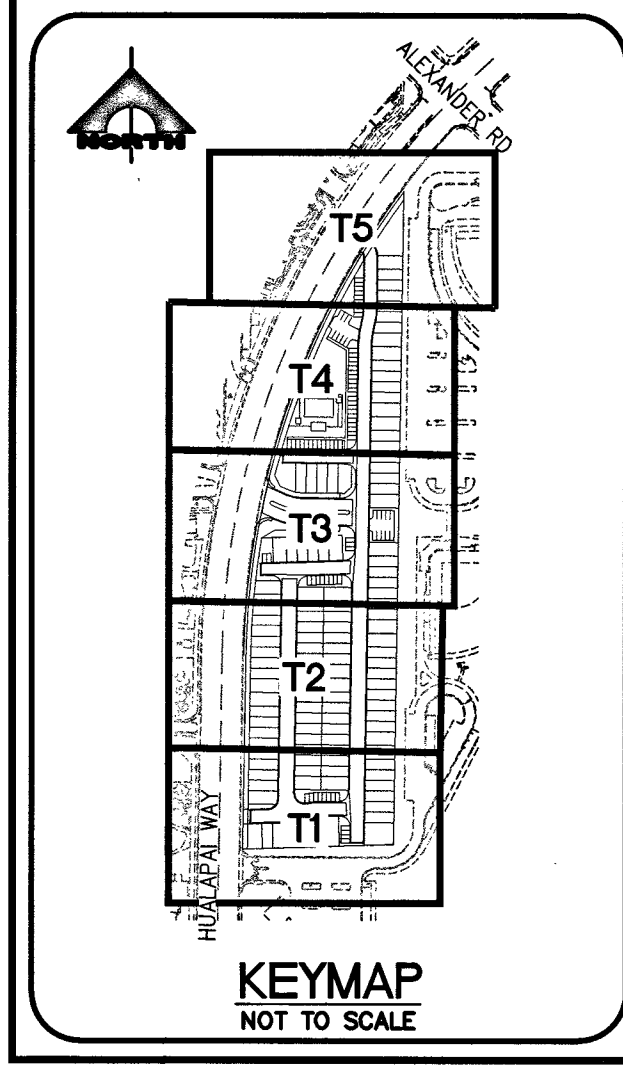
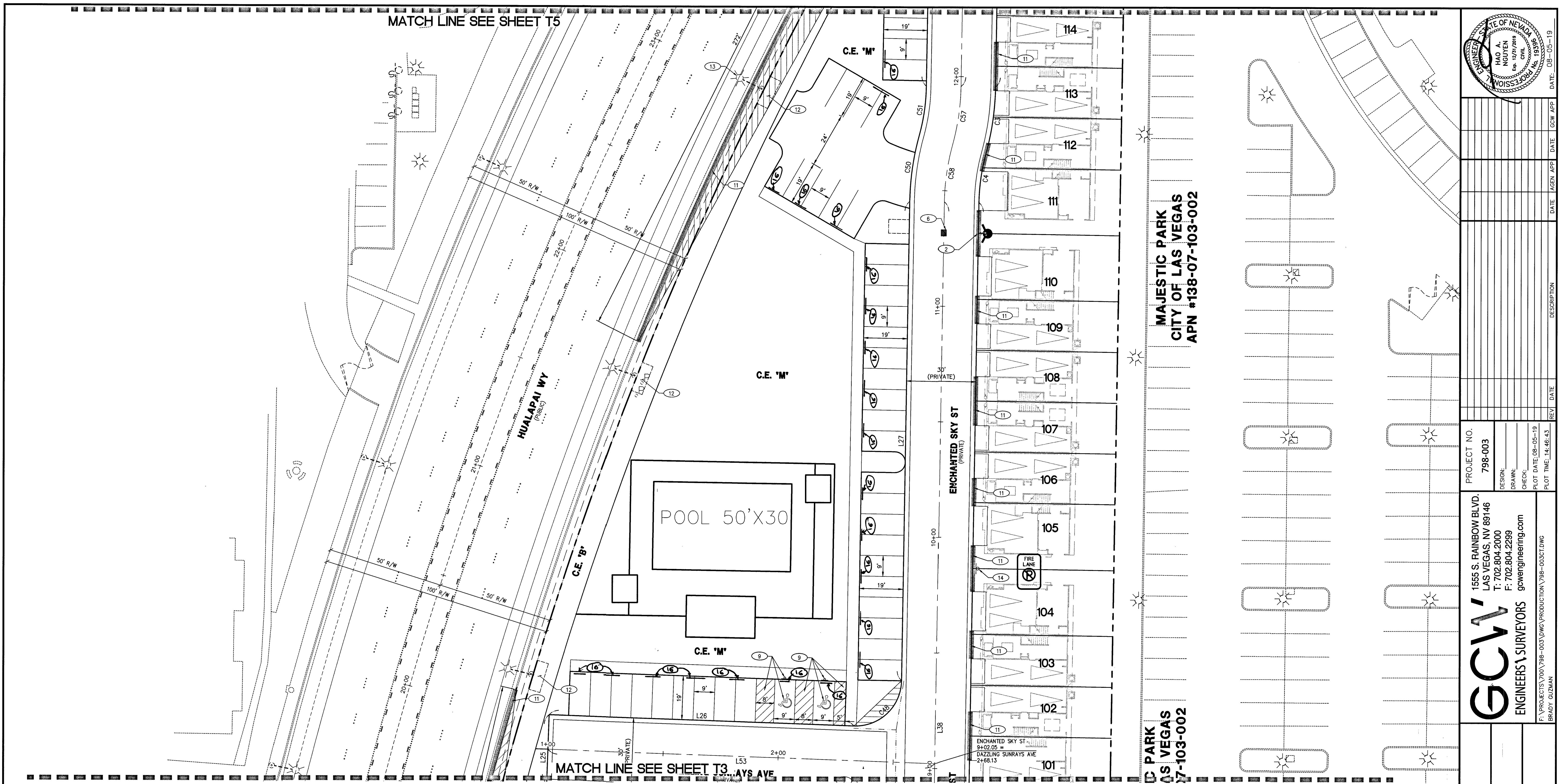
DRAWING
U1
23 OF 33 SHTS

PROJ#136485 **QS138-07-NW**

STATE OF NEVADA
HAO A. NGUYEN
Exp. 12/1/2019
08-05-19

DATE **AGEN APP** **DATE** **REV** **DATE** **DESCRIPTION**





FAST
Call before you Dig
1-702-432-5300
FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION

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

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

LEGEND

- STREET NAME SIGN (D3) WITH 30" STOP SIGN (R1-1)
- 30" x 9" STREET NAME SIGN (D-3)
- NO OUTLET SIGN (W14-2P)
- SIGN - SEE PLAN FOR SPECIFICATION
- 200 AMP PAD MOUNT SERVICE PEDESTAL
- LED (100W EQUIVALENT)
- NO 3 1/2 PULL BOX
- EXISTING STREET LIGHT
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS
- RED PAINTED CURB

CONSTRUCTION NOTES

TRAFFIC

- INSTALL (1) STREET NAME SIGN (D3) WITH 30" STOP SIGN (R1-1) TO BE PRIVATELY MAINTAINED.
- PAINT CURB RED 15" ON EACH SIDE OF FIRE HYDRANT.
- INSTALL 6" SOLID WHITE LINE.
- INSTALL TYPE 4 LANE LINE PER CCAUSD NO. 244.1.
- INSTALL MEDIAN NOSE MARKING PER CCAUSD NO. 248.
- INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- RELOCATED STILT AND INSTALL PER CCAUSD NO. 314, 320, AND 321. RECONNECT CIRCUIT WITHOUT SPLICING.
- INSTALL 6" x 2" WHITE SKIP LANE LINE.
- INSTALL VAN ACCESSIBLE SIGN, 4" PAINTED PARKING LOT STRIPING AND PARKING BAY HANDICAP SYMBOL.
- RESTORE OR REPLACE EXISTING STRIPING.
- PAINT CURB RED (FIRE LANE)
- 12' x 5' SIDEWALK AROUND OBSTRUCTION
- INSTALL "NO PARKING" SIGN R8-3A, (24"x24")
- INSTALL NO PARKING-FIRE LANE SIGN.
- INSTALL DO NOT ENTER SIGN
- INSTALL WHEEL STOP.

Line Table

Line #	Length	Direction
L27	207.49	N00° 52' 41.31"E

Curve Table

Curve #	Length	Radius	Delta	Tangent
C3	29.01	115.00	014.4540	14.58
C4	21.44	85.00	014.4540	10.78
C50	29.01	115.00	014.4540	14.58
C51	21.44	85.00	014.4540	10.78
C57	25.23	100.00	014.4540	12.68
C58	25.23	100.00	014.4540	12.68

GENERAL NOTES

- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CITY OF LAS VEGAS JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CITY OF LAS VEGAS'S SATISFACTION. ALL MATERIAL USED SHALL MEET CITY OF LAS VEGAS'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
- IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN INSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.0.01.02.
- ALL SEWER / STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
- FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

BENCHMARK
7LV007NWNW
RIVET & PLATE TOP CURB E. SIDE HUALAPAI WAY AT MIAMI SPRINGS AVE
ELEVATION: 2694.63

BASIS OF BEARING
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983. SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
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STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
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FALSE NORTHING: 200,000,000 METERS (656,166,667 US FT)
FALSE EASTING: 100,000,000 METERS (328,083,333 US FT)
STANDARD PARALLEL SCALE: 1.0001 (EXACT)
LINEAR UNIT: US SURVEY FOOT (US FT)

APPROVED FOR CONSTRUCTION
LAS VEGAS FIRE AND RESCUE
DATE: 8-8-19

TOUCHSTONE LIVING
HUALAPAI AND ALEXANDER
T4
DRAWING
31 OF 33 SHTS

TRAFFIC PLAN 4

MAJESTIC PARK
CITY OF LAS VEGAS
APN #138-07-103-002

ENCHANTED SKY ST
(PRIVATE)

HUALAPAI WY
(PUBLIC)

POOL 50'X30

C.E. 'M'

C.E. 'B'

C.E. 'M'

ENCHANTED SKY ST
(PRIVATE)

MAJESTIC PARK
CITY OF LAS VEGAS
APN #138-07-103-002

PROJECT NO.
798-003

DESIGN:
DRAWN:
CHECK:

PLOT DATE: 08-05-19
PLOT TIME: 14:46:43

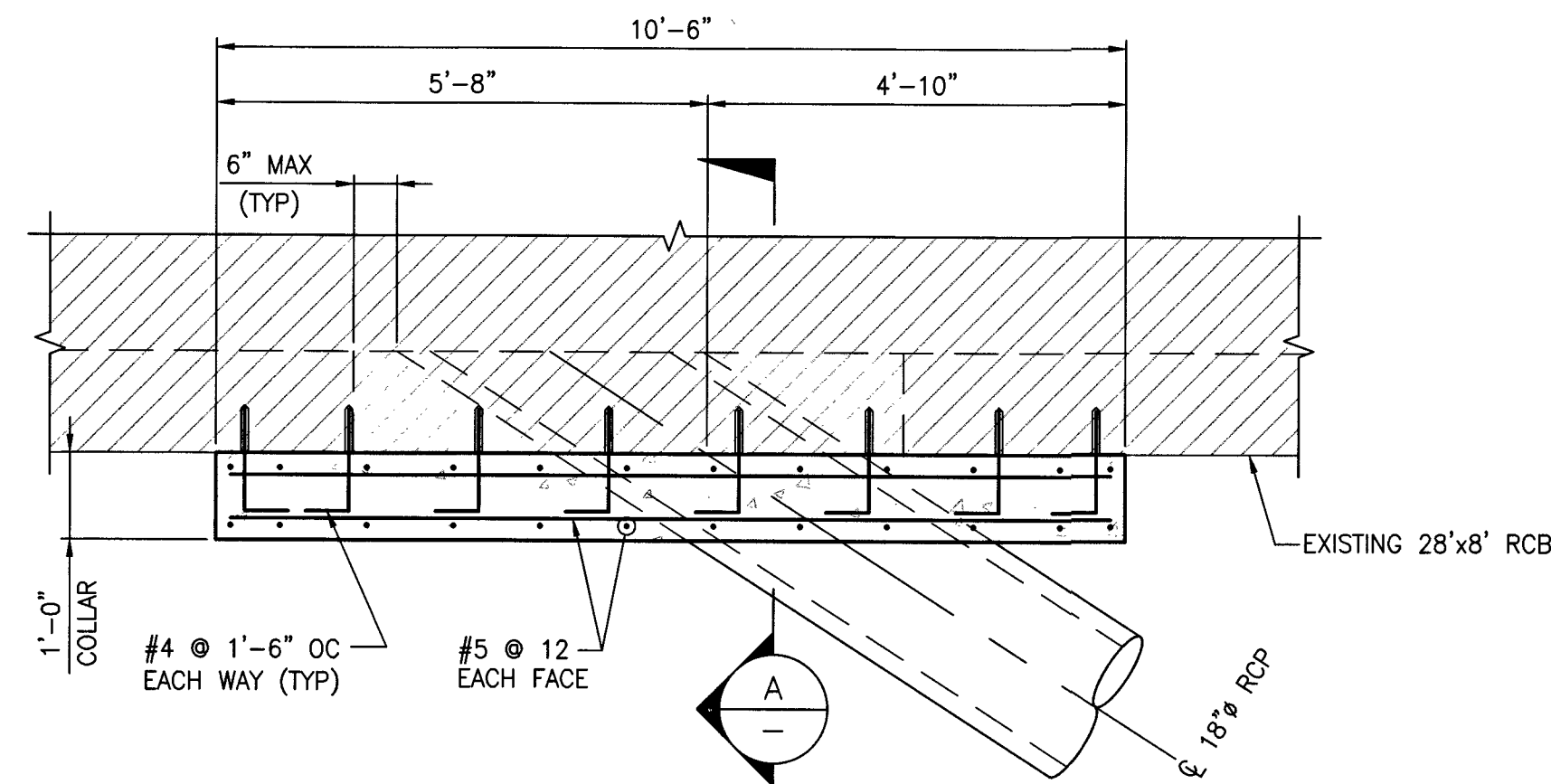
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

GCV
ENGINEERS & SURVEYORS

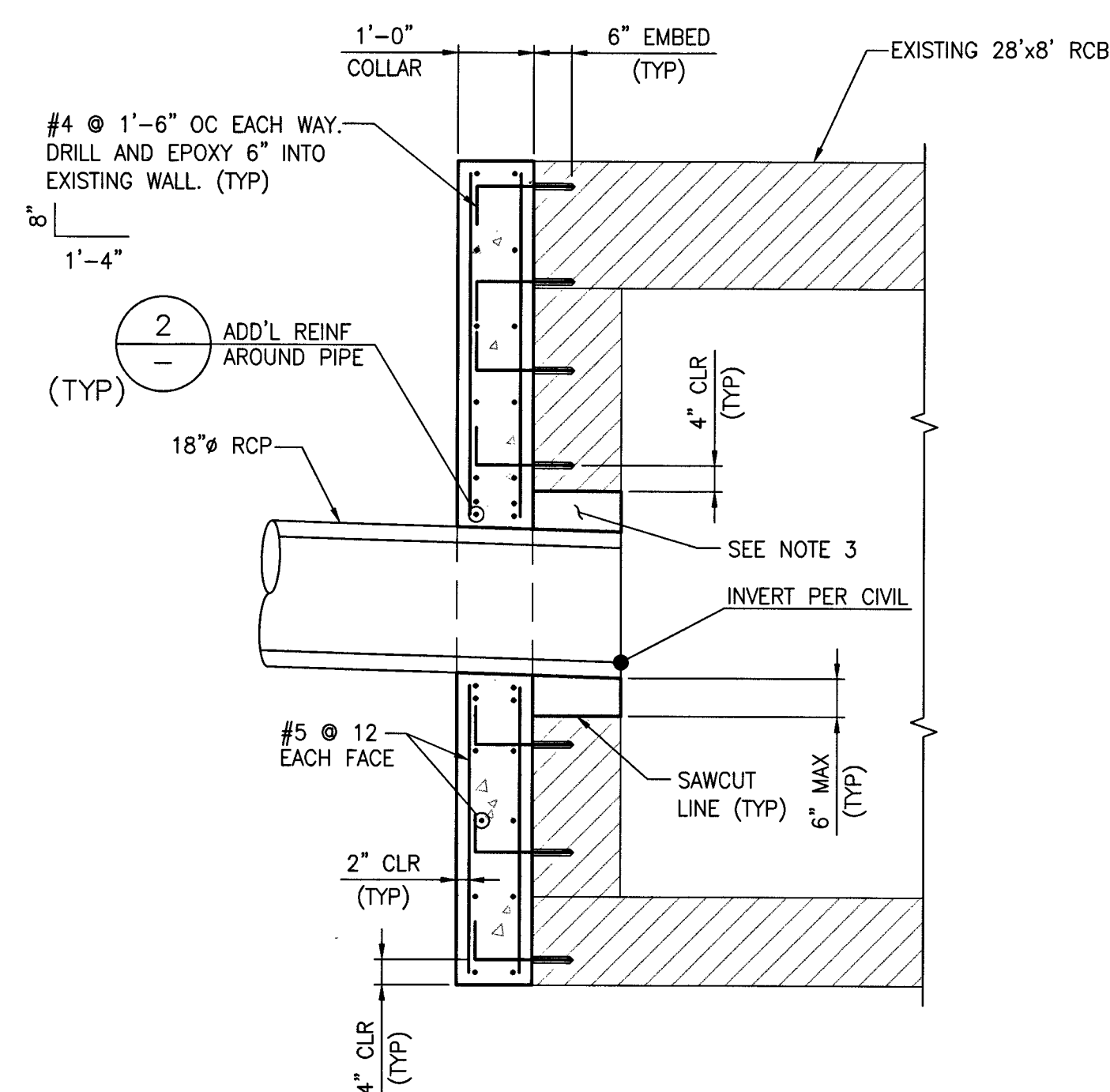
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

PROJECTS \700\798-003\DWG\PRODUCTION\798-003C1.DWG
BRADY GUZMAN

32 OF 33 SHTS



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



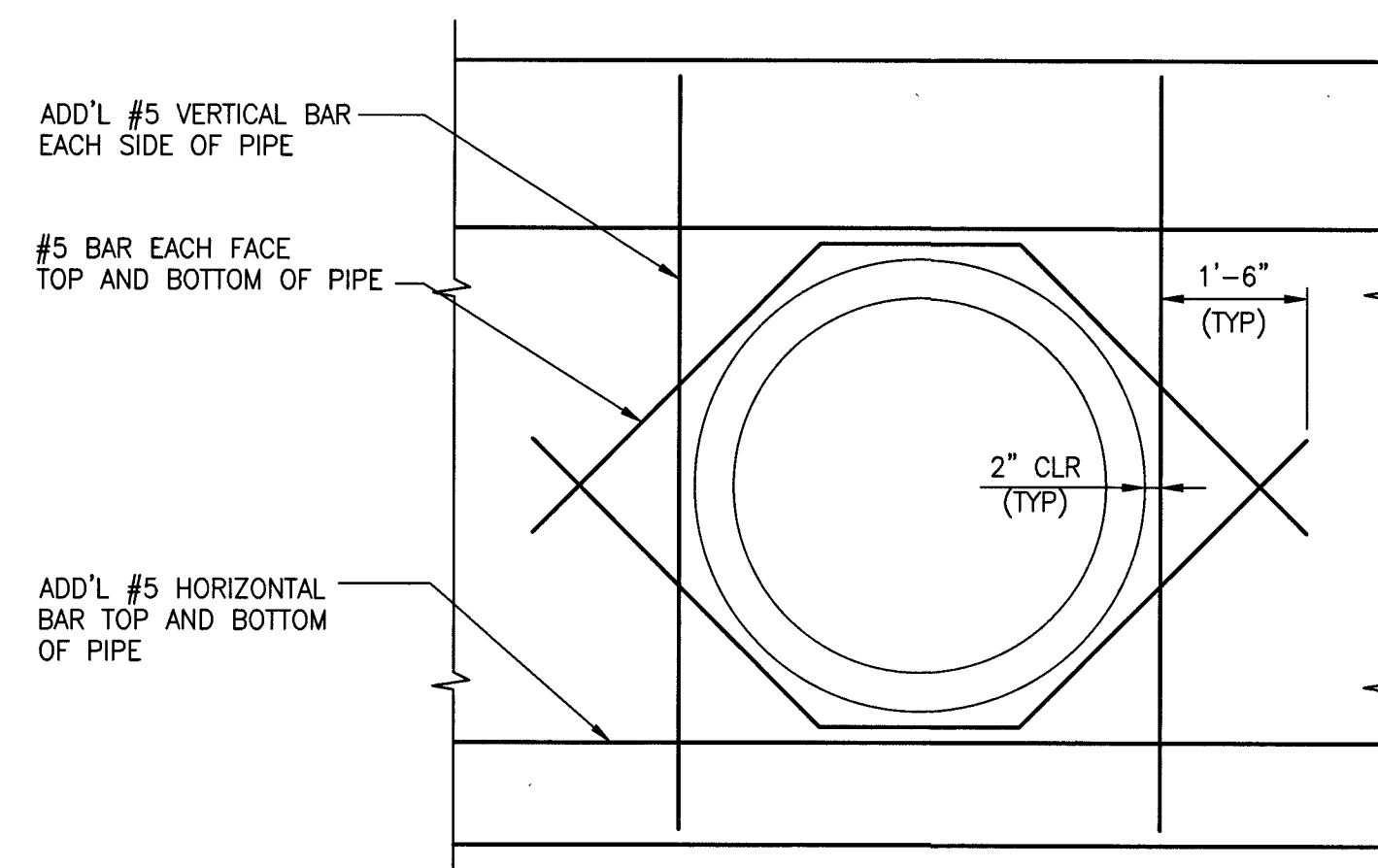
SCALE: 1/2" = 1'-0"

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

- SPECIAL INSPECTION:**

	CONTINUOUS MONITORING	PERIODIC MONITORING
PLACEMENT AND COMPACTION OF FILL	X	
REBAR PLACEMENT IN CONCRETE		X
VERIFICATION OF CONCRETE MIX DESIGN		X
SAMPLING OF FRESH CONCRETE AND PLACEMENT	X	
CONCRETE CURING AND FORMWORK		X
POST—INSTALLED ANCHORS	X	

1. SPECIAL INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED FIRMS OR PERSONNEL. THE SPECIAL INSPECTOR MUST BE ICC CERTIFIED AND APPROVED BY CLARK COUNTY IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
2. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY CLARK COUNTY, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENTS.
3. AS IDENTIFIED WITHIN THE CONTRACT DOCUMENTS, AND THE IBC 2018 BUILDING CODE CHAPTER 17, THE SPECIAL INSPECTORS SHALL MAINTAIN RECORDS OF ALL INSPECTIONS PERFORMED TO THE EXTENT OF THE WORK THAT THEY ARE TO INSPECT. PROVIDE COPIES OF REPORTS TO THE OWNER AND ARCHITECT. ENGINEER PERIODICALLY AND AS REQUIRED FOR ADEQUATE COMMUNICATION AS WORK PROGRESSES.



- NOTES:
1. FIELD CUT TYPICAL REINFORCING 2" CLR OF PIPE.
 2. IF BARS CANNOT EXTEND BEYOND PIPE AS SHOWN, EXTEND AS FAR AS POSSIBLE AND PROVIDE STANDARD HOOK AT END.

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

[illegible]

PROJECT NO.
798-003

DESIGN: _____
DRAWN: _____
CHECK: _____
PLOT DATE: 08-05-19
PLOT TIME: 14:46:52

1555 S. RAINBOW BLVD.
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T: 702.804.2000
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DN\798--003SSSTRUCT.DWG

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\\PROJECTS\700\798-003\DWG\PRODUCTION\798-003SSTRUCT.DWG
RADY GUZMAN

TOUCHSTONE LIVING

HUALAPAI AND ALEXANDER

PIPE PENETRATION DETAILS

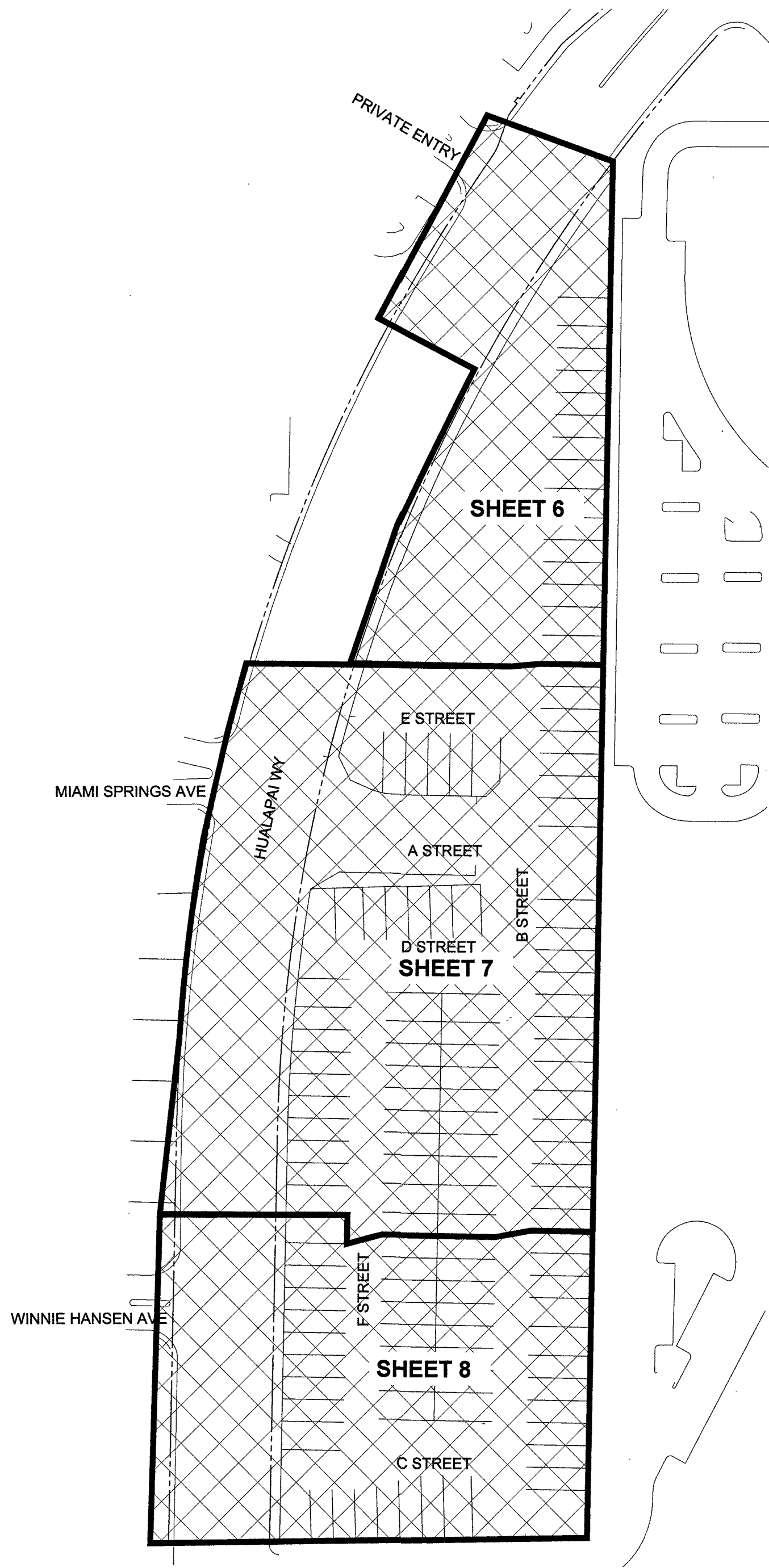
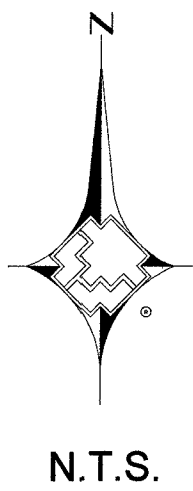
DRAWING

S1

33 OF 33 SHTS

LEGEND

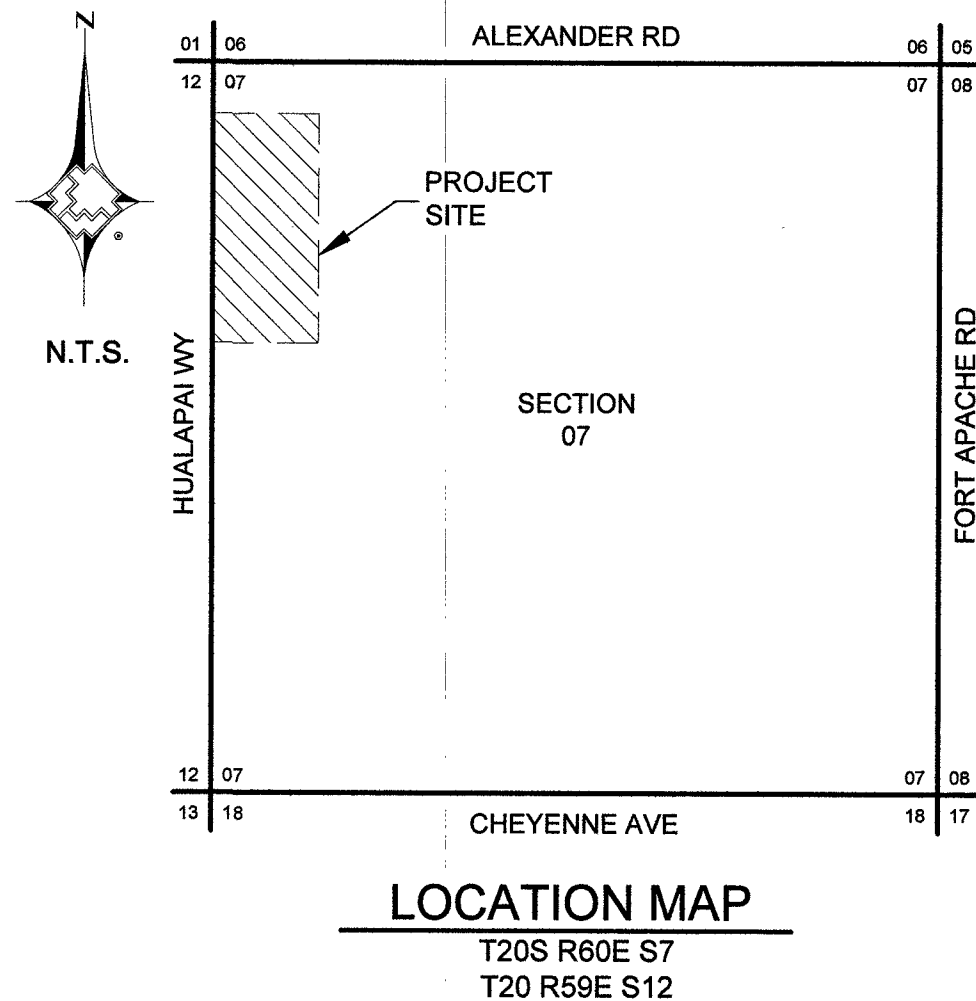
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
PROPOSED 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 COVER SHEET
- 2 SIGNATURE SHEET
- 3 NOTES AND STANDARD DETAILS
- 4 NOTES AND STANDARD DETAILS
- 5 DETAIL SHEET
- 6 PLAN SHEET
- 7 PLAN SHEET
- 8 PLAN SHEET



Total footage located in Public ROW 188'

APPROVED FOR CONSTRUCTION

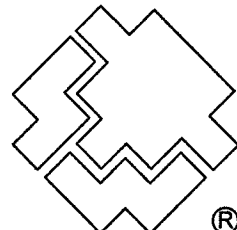
THIS APPROVAL IS FOR WORK IN CLV R/W
OR CLV EASEMENTS ONLY. OBTAINING PERMISSIONS
OR EASEMENTS FOR WORK SHOWN ON PRIVATE
PROPERTY IS THE RESPONSIBILITY OF THE
UTILITY.

SEE COVER OF CIVIL PLAN
APPROVAL

CUSTOMER 124



Know what's below.
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SOUTHWEST GAS CORPORATION

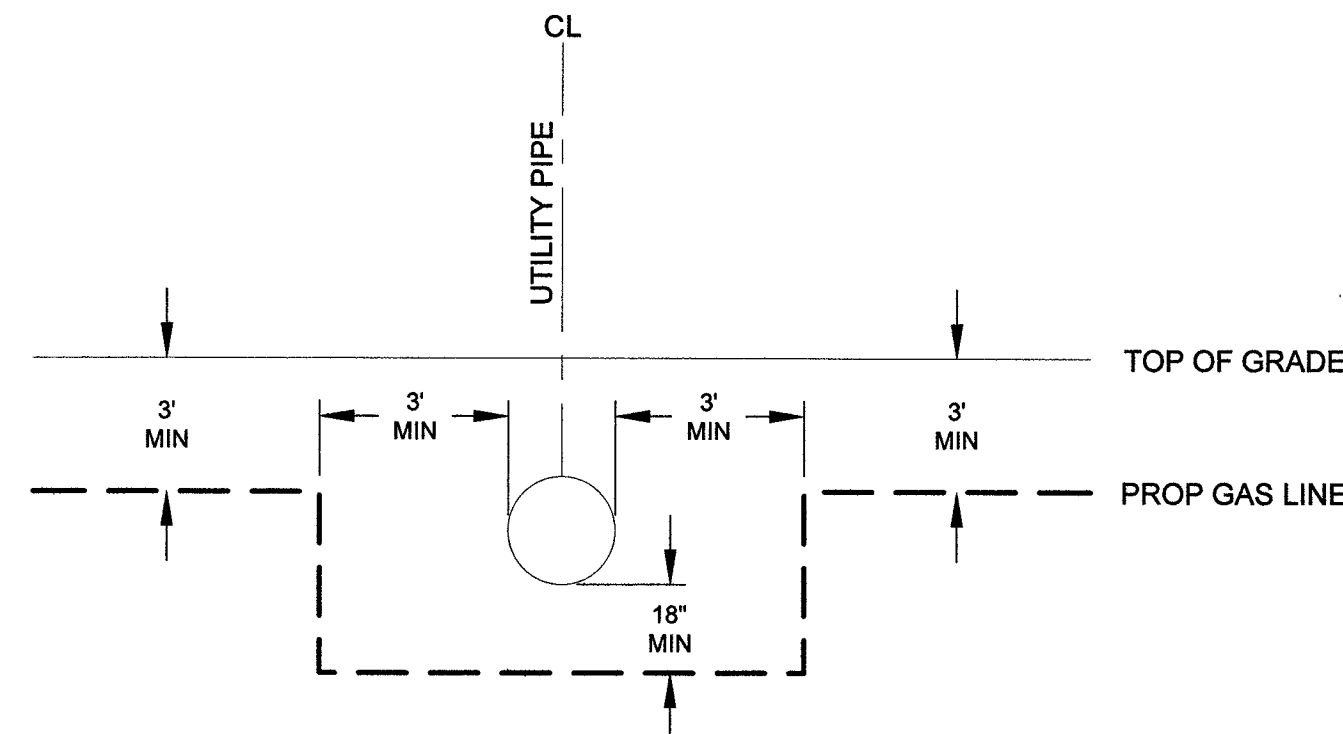
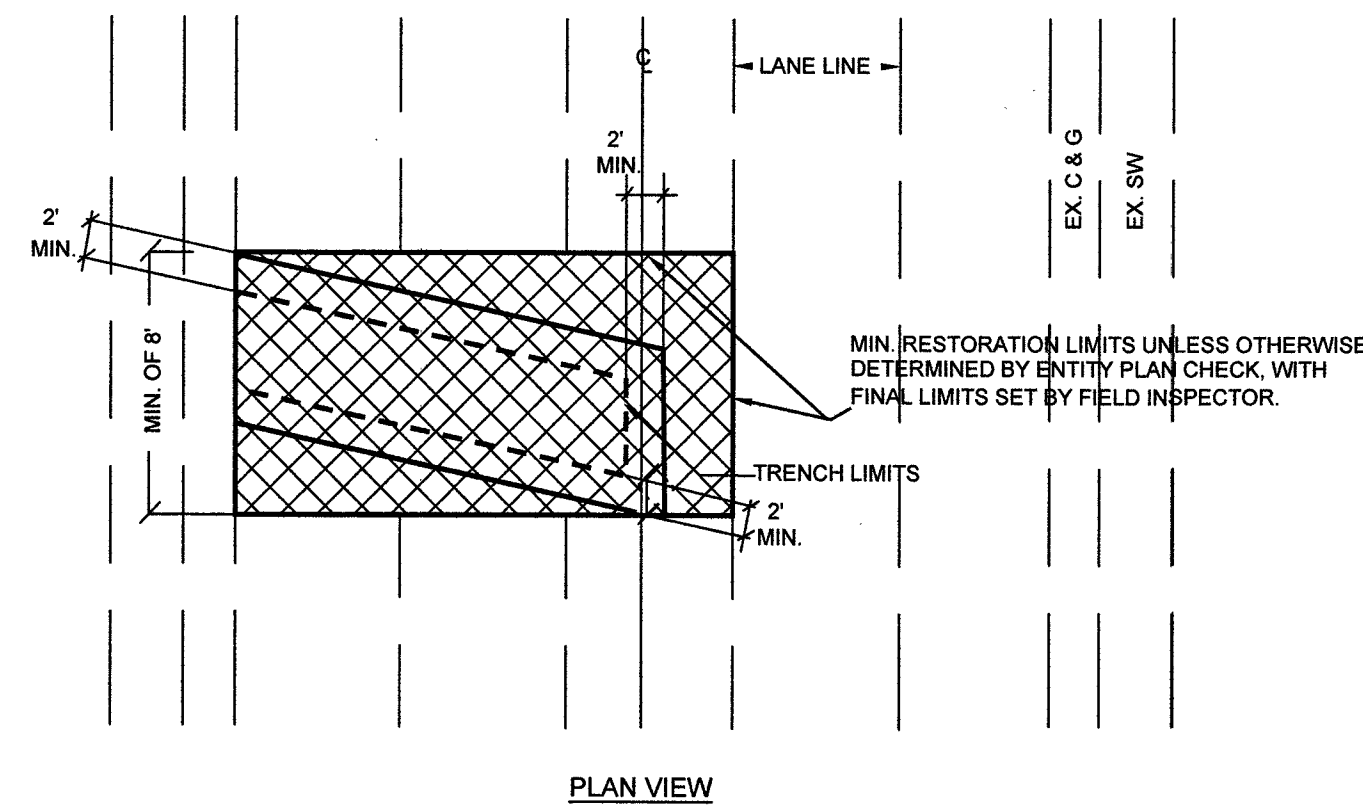
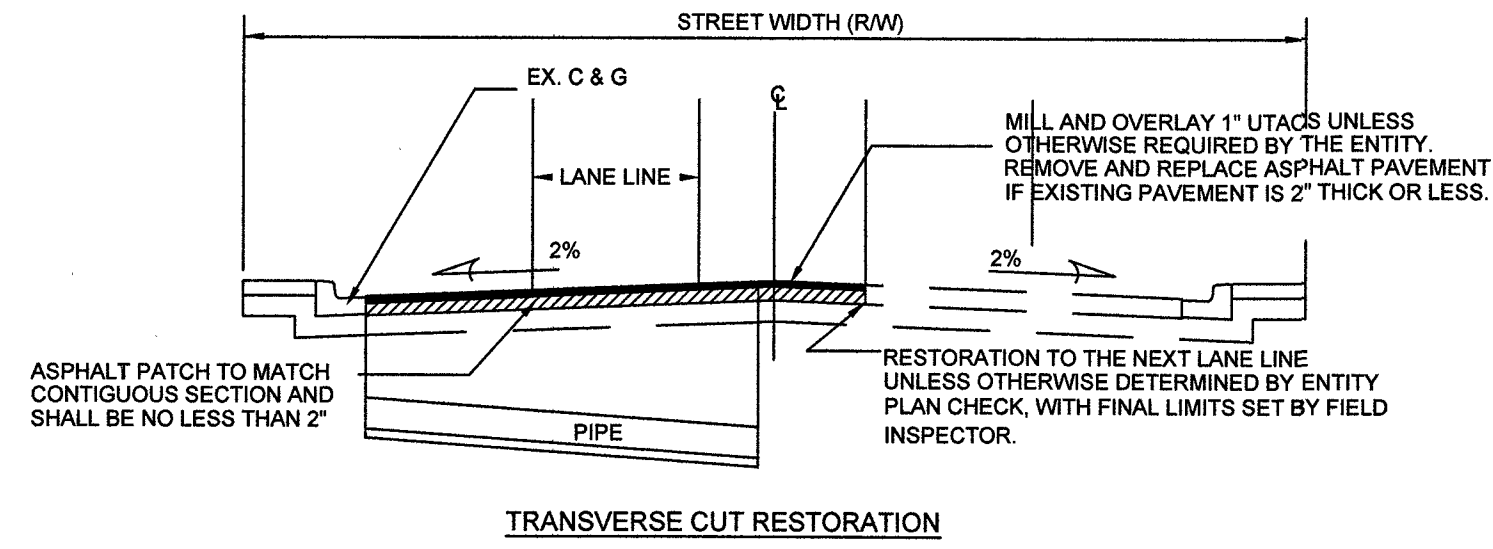
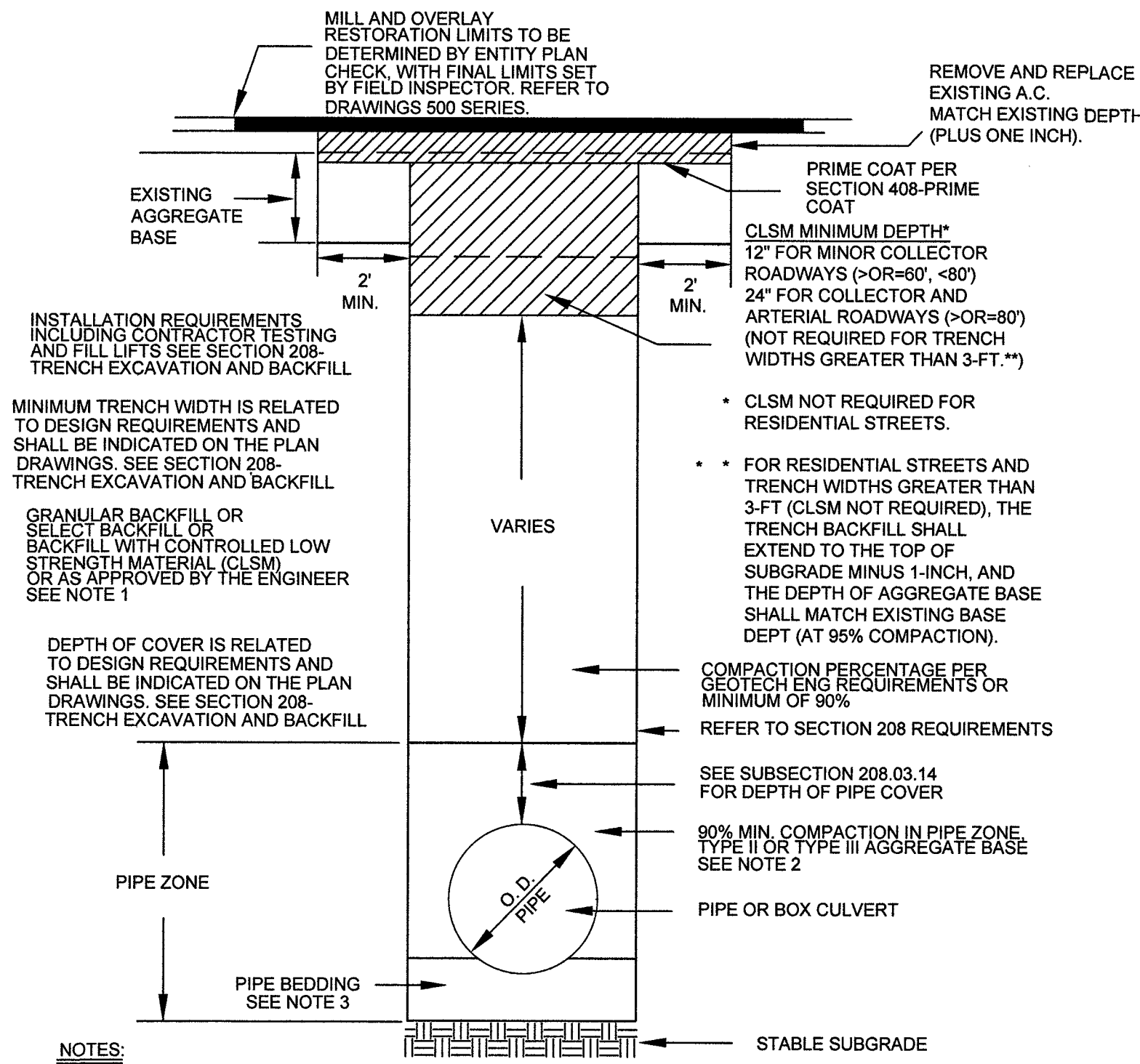
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REVISIONS						D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN JUSTIN MARTINEZ		PHONE: (702) 365-2095	
						SYSTEM MAOP: 60		HP SERVICE ☐		3855289		ACCOUNT REP. ANDREW CARLSON		PHONE: (702) 370-5067	
						SYSTEM MOP: 55		DISTRIBUTION ☒				PROJECT CONTACT DAVE WAGNER		PHONE: (702) 258-4447	
								FEEDER ☐		RELATED WR NO.S		SHEET NO. 1 OF 8		SCALE N.T.S.	
								TRANS. BY DEF ☐				DWN. BY INFINITY		CHKD. BY CS	
								TRANS > 20% ☐		N/A		APPVD. BY BWJ			
PERMIT INFORMATION		ISOLATION AREA		LOCATION		ATLAS OR TILE		N/A		HUALAPAI & ALEXANDER		34			
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_508 ISO_21_DIST_509		T20S R60E S7 T20 R59E S12 M.D.M.		X579Y538		SYSTEM MAOP: N/A SYSTEM MOP: N/A							
												L19-61032		10745108-HA	

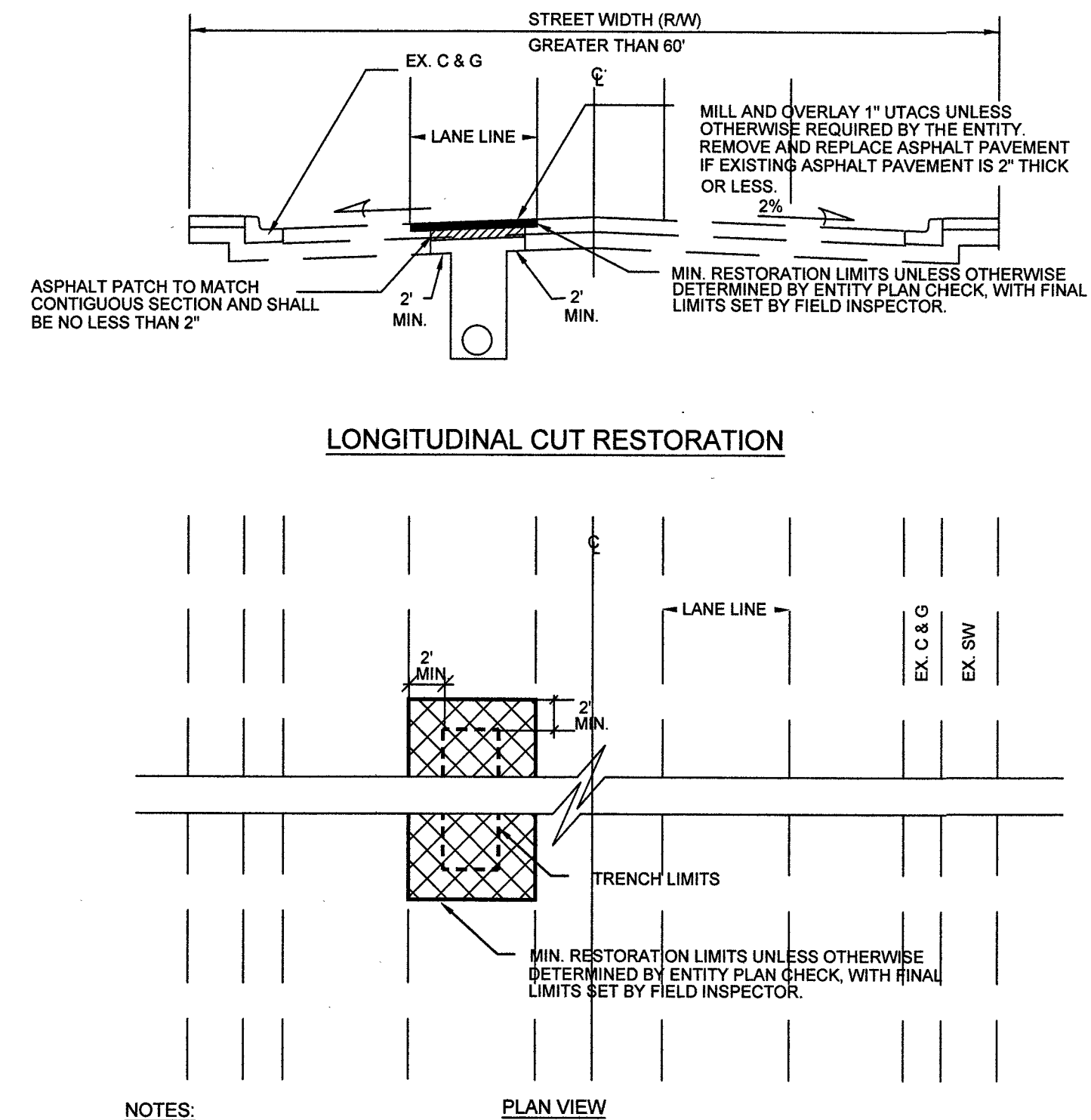
1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES LOCATED IN THE FIELD.
2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS.
3. DO NOT SCALE THIS DRAWING.
4. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
5. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
6. ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
7. CONTACT ENGINEERING FOR BYPASS INFORMATION.
8. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED.
9. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
10. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
11. PROPOSED MAIN SHOULD END 3' PAST THE LAST SERVICE FOR MAIN NOT BEING STUBBED FOR FUTURE PHASE(S).
12. MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60 PSIG ARE:
 - A. MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.
 - B. ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.
 - C. CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.
14. THE FOLLOWING VALVE(S) ARE TO BE INSTALLED ON THIS WORK REQUEST:
 - A. 2" ISO BALL VALVE # 520327, FID# 21DVE5016314
15. TRENCHING AND BACKFILL TO CONFORM WITH RTC STANDARD 500.2, 500.3 & 503, AND UNIFORM STANDARD SPECIFICATION SECTION 208.
16. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
17. MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
18. ANY EXCAVATION EXPOSING LVVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVVWD IMMEDIATELY. CONTRACTOR TO CALL (702) 258-7171 TO SCHEDULE LVVWD INSPECTION.



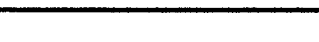
TYPICAL UTILITY
CROSSING DETAIL
N.T.S.

DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
2,564'	2" PE8100 MAIN
1,348'	1" PE8100 SERVICE

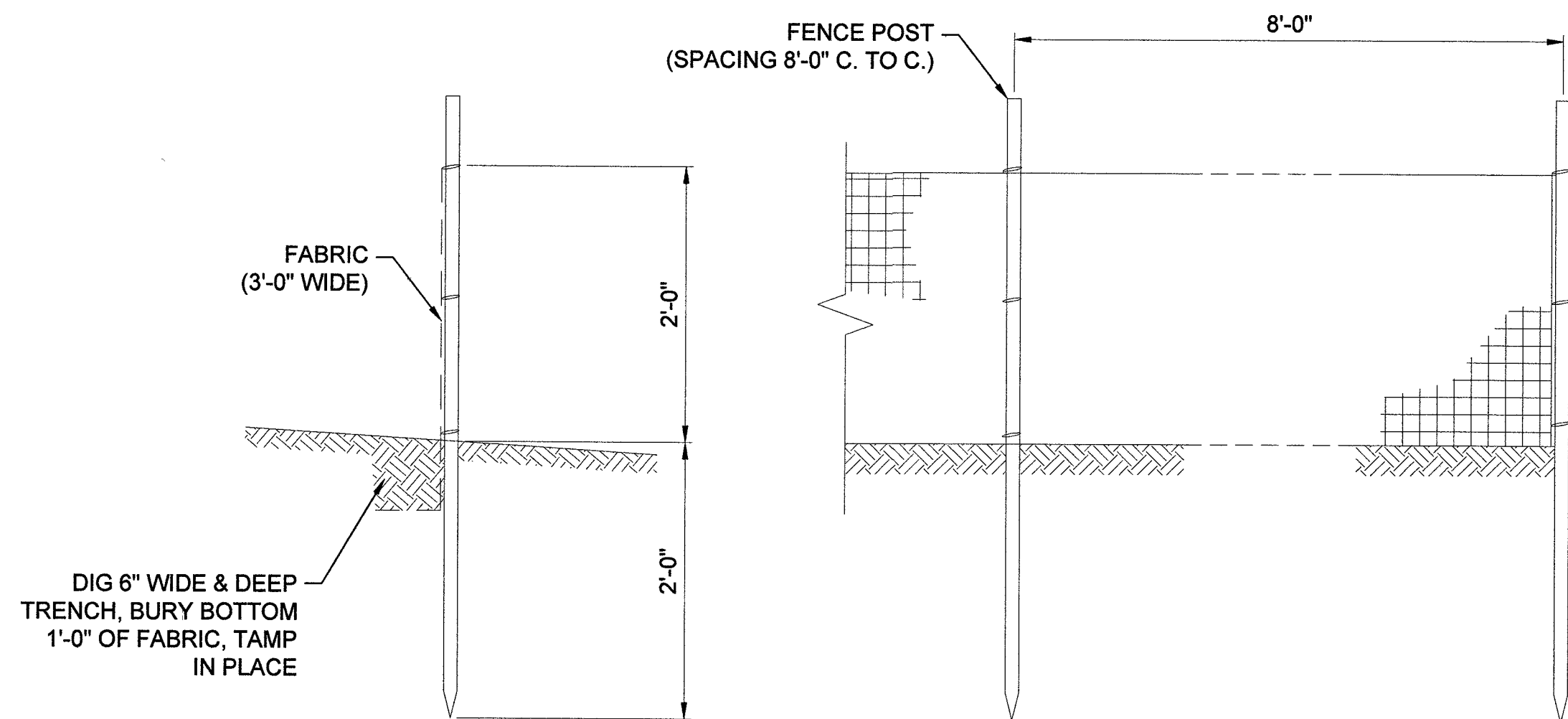
THIS PROJECT IS NOT INSTALLING, ABANDONING, OR TYING INTO ANY STEEL GAS FACILITIES.



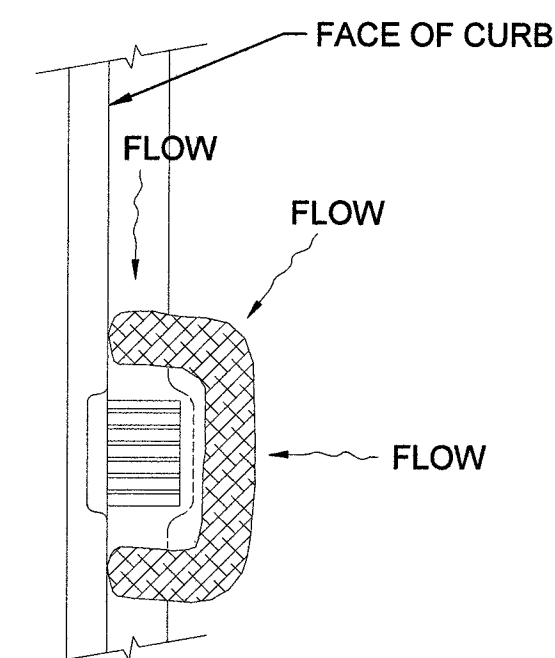
RTC STD DWG 500.3

 Know what's below. Call before you dig.	 SOUTHWEST GAS CORPORATION	Southwest Gas Corporation Confidential and Proprietary Information For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C. This document may not be copied, distributed, or shared to any other person or entity in any manner or form without prior written consent of Southwest Gas Corporation.	REVISIONS				D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN JUSTIN MARTINEZ PHONE: (702) 365-2095
							SYSTEM MAOP: 60		HP SERVICE ☐	3855289	ACCOUNT REP. ANDREW CARLSON PHONE: (702) 370-5067
							SYSTEM MOP: 55		DISTRIBUTION ☒		PROJECT CONTACT DAVE WAGNER PHONE: (702) 258-4447
			NO. DESCRIPTION BY DATE APPVD.								SHEET NO. 3 OF 8 SCALE N.T.S. DATE 09/03/2019
PERMIT INFORMATION			ISOLATION AREA	LOCATION	ATLAS OR TILE	N/A		FEEDER ☐	RELATED WR NO.S	DWN. BY INFINITY CHKD. BY CS APPVD. BY BWJ	
CITY OF LAS VEGAS TAX CODE: 02-0200			ISO_21_DIST_508 ISO_21_DIST_509	T20S R80E S7 T20 R59E S12 M.D.M.	X579Y538	SYSTEM MAOP: N/A SYSTEM MOP: N/A		TRANS. BY DEF ☐ TRANS > 20% ☐	N/A		
HUALAPAI & ALEXANDER											

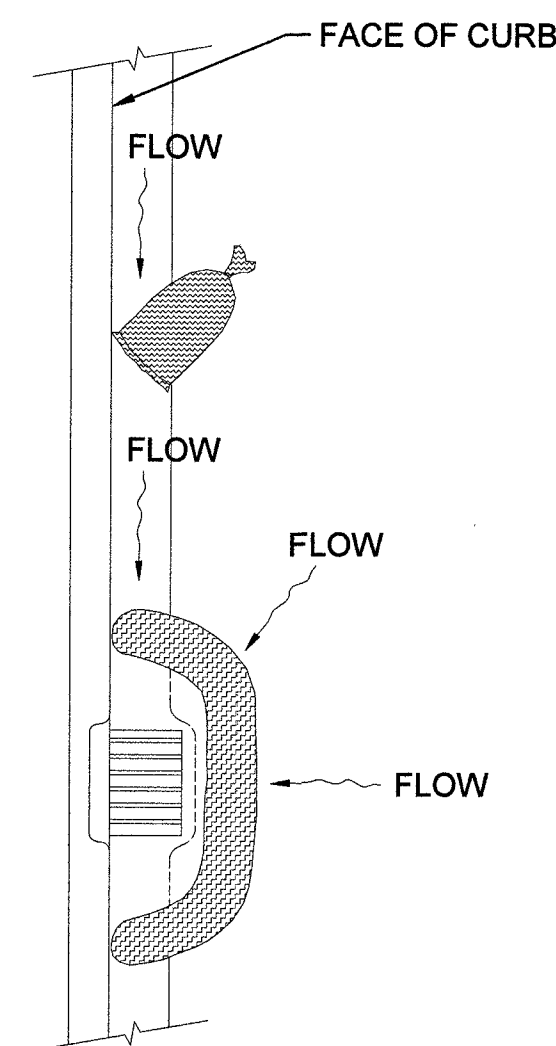
TYPICAL SWPPP BMPs DETAILS



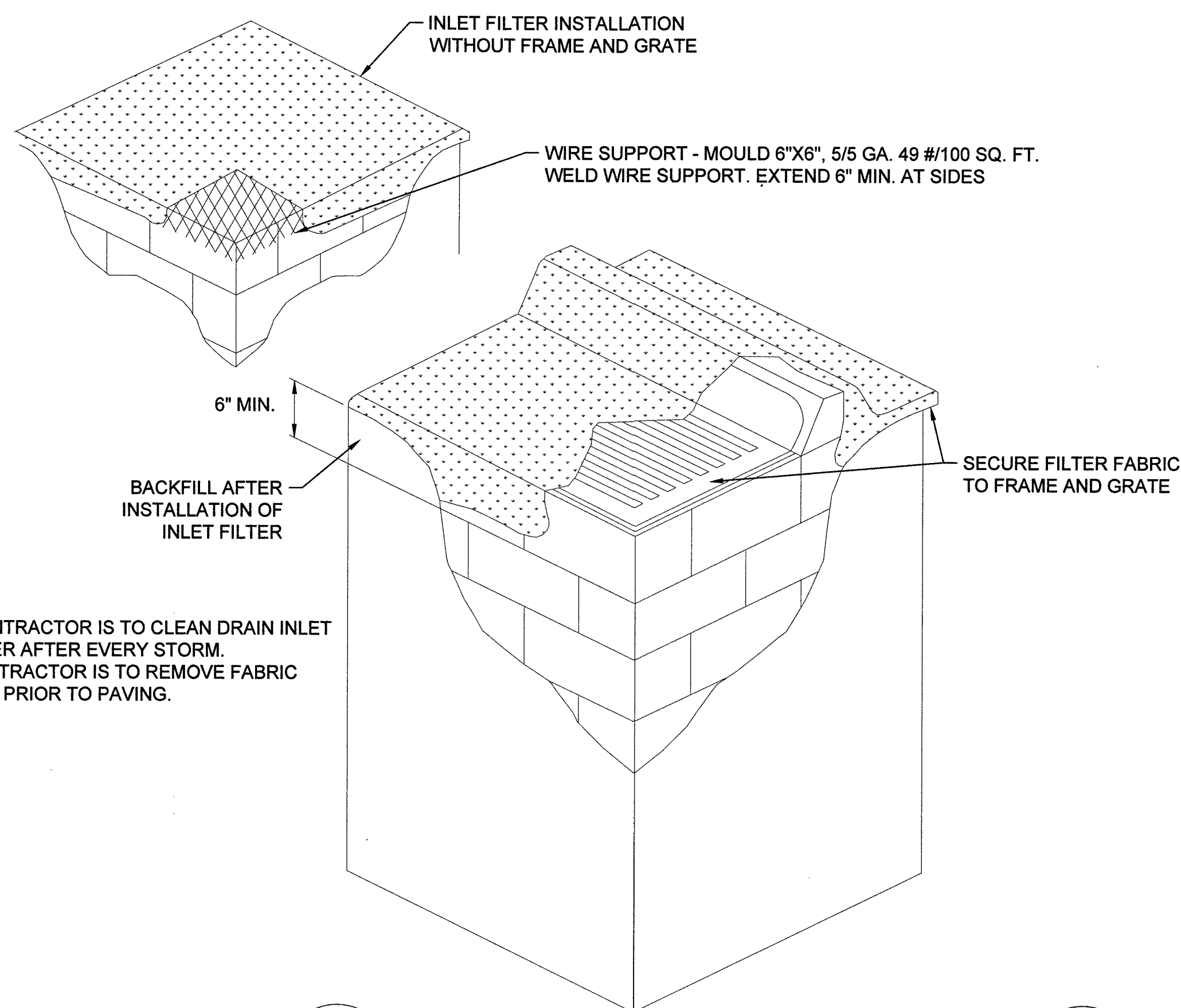
1
4
SILT FENCE
NOT TO SCALE



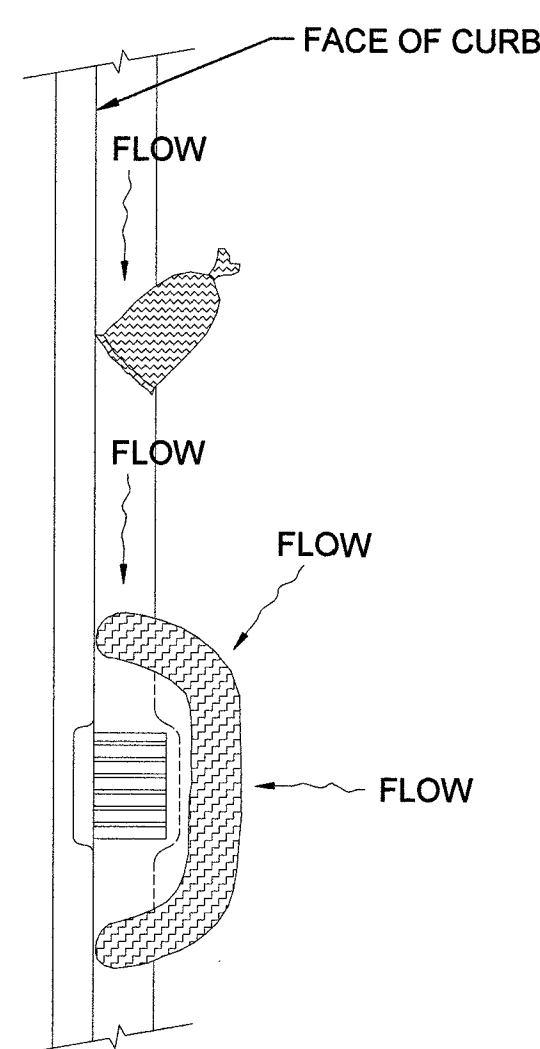
2
4
FIBER ROLL
NOT TO SCALE



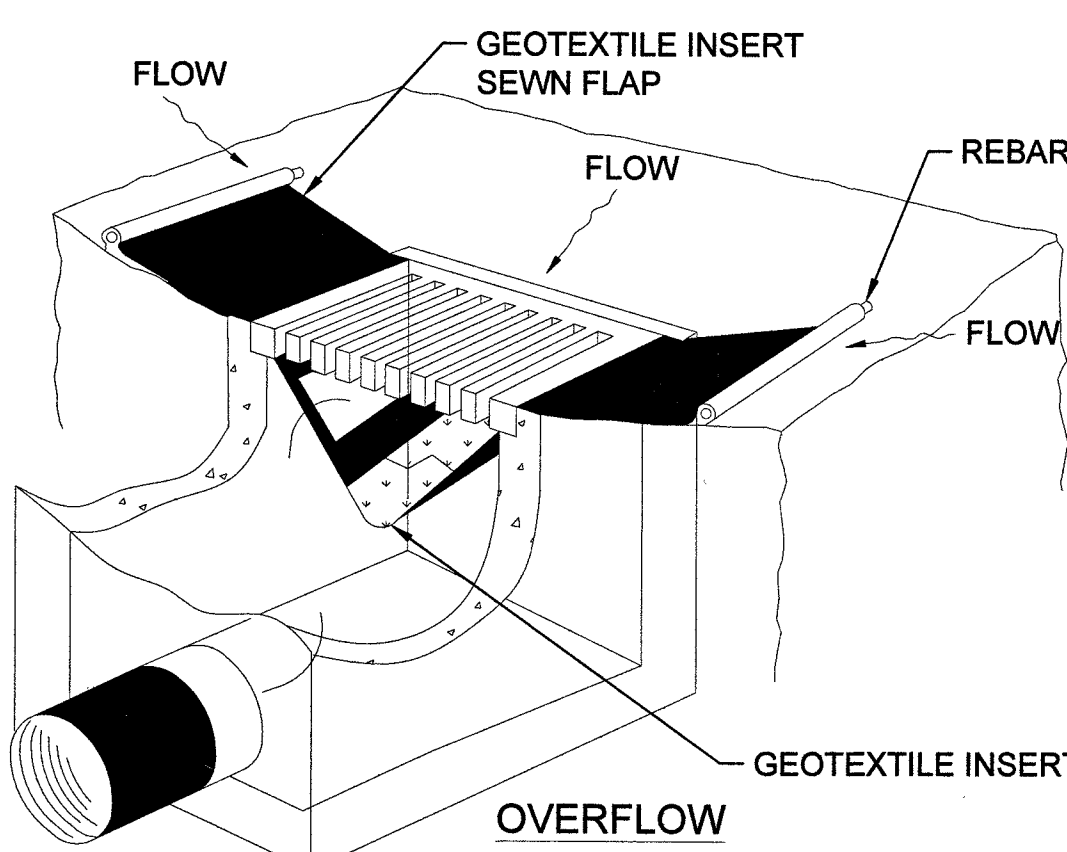
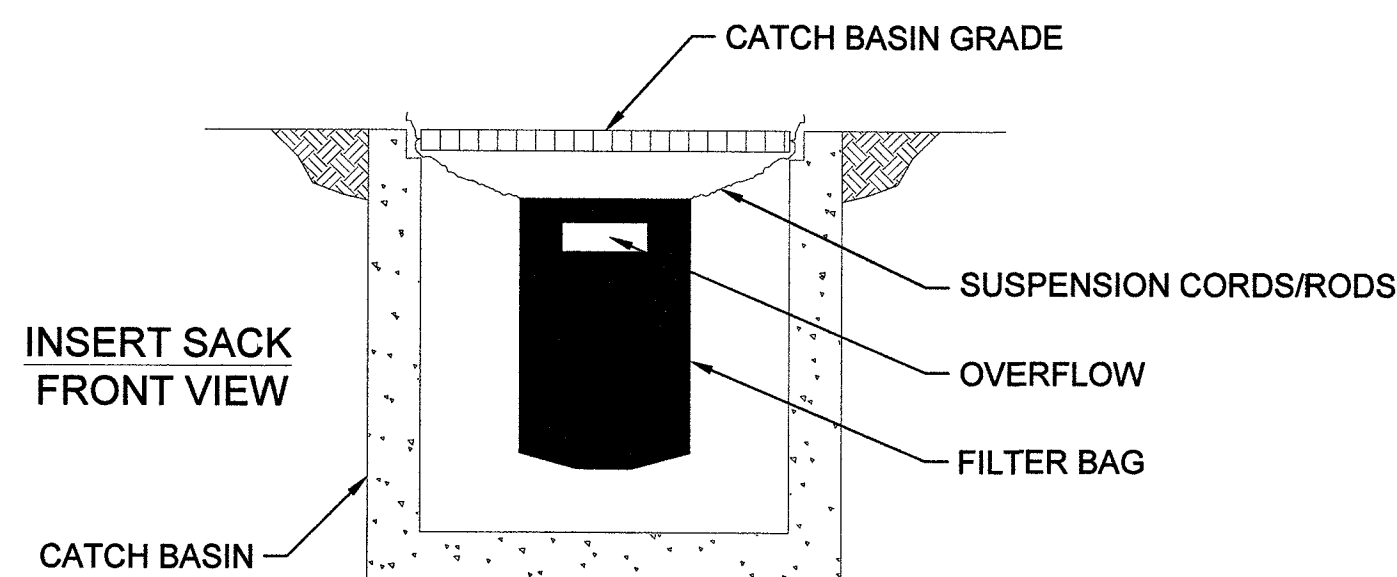
3
4
SAND BAG / ROLL
NOT TO SCALE



4
4
DRAIN INLET FILTER
NOT TO SCALE



5
4
GRAVEL BAG / ROLL
NOT TO SCALE



6
4
SEDIMENT FILTER BAG
NOT TO SCALE

STORMWATER NOTES

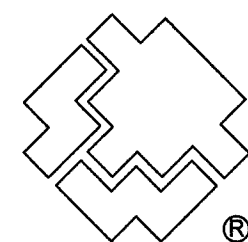
1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPs FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
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 DO 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 TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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

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



Know what's below.
Call before you dig.



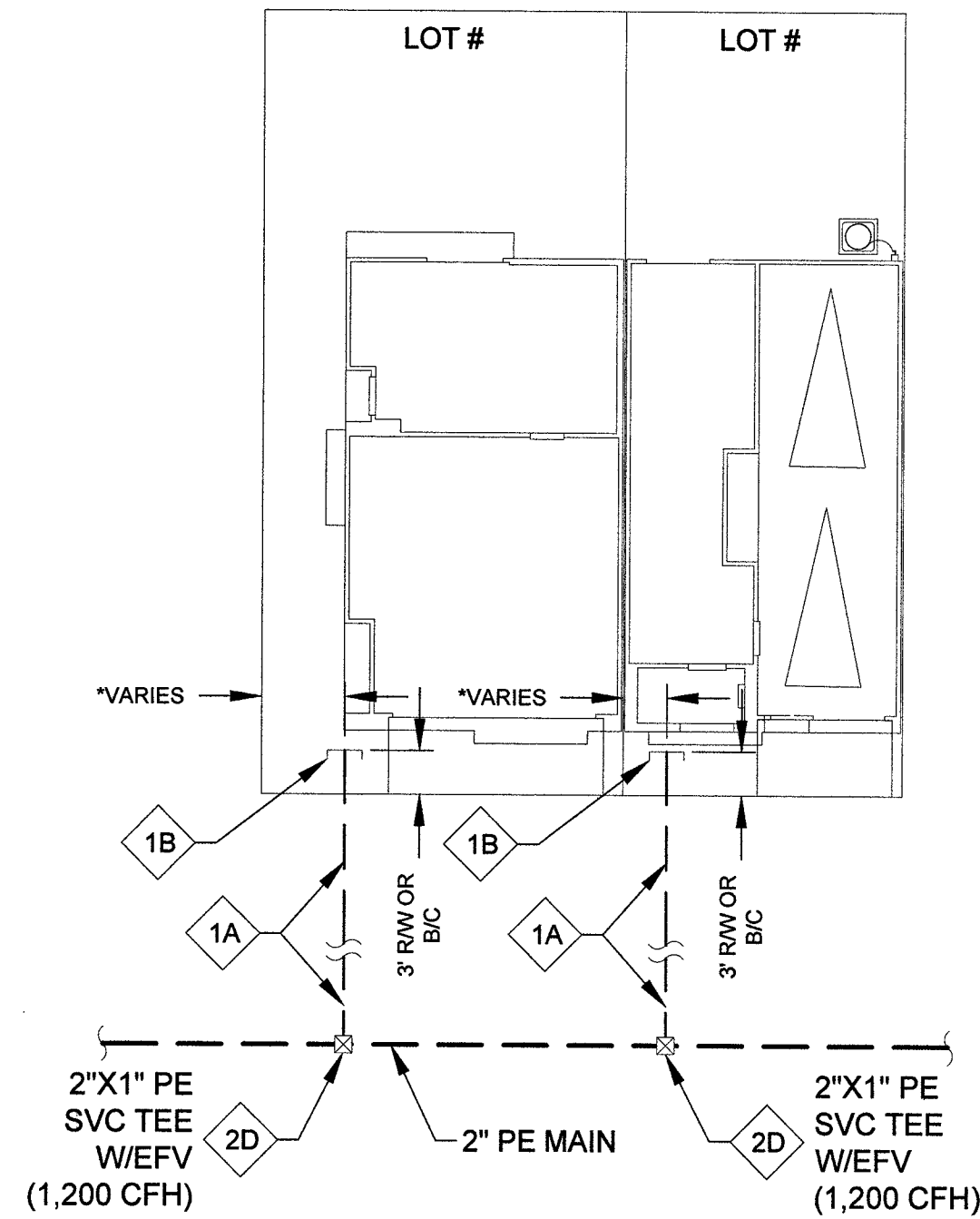
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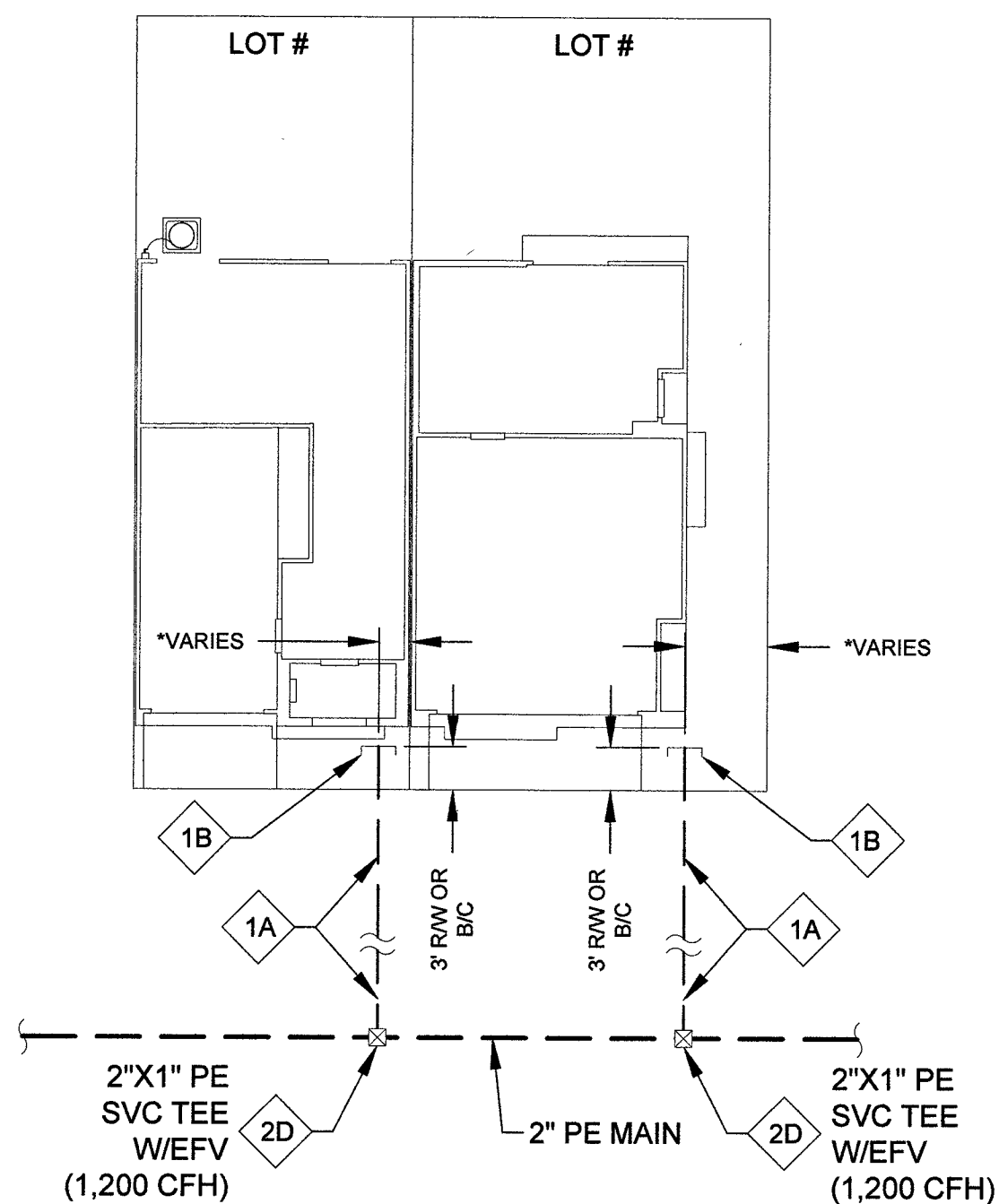
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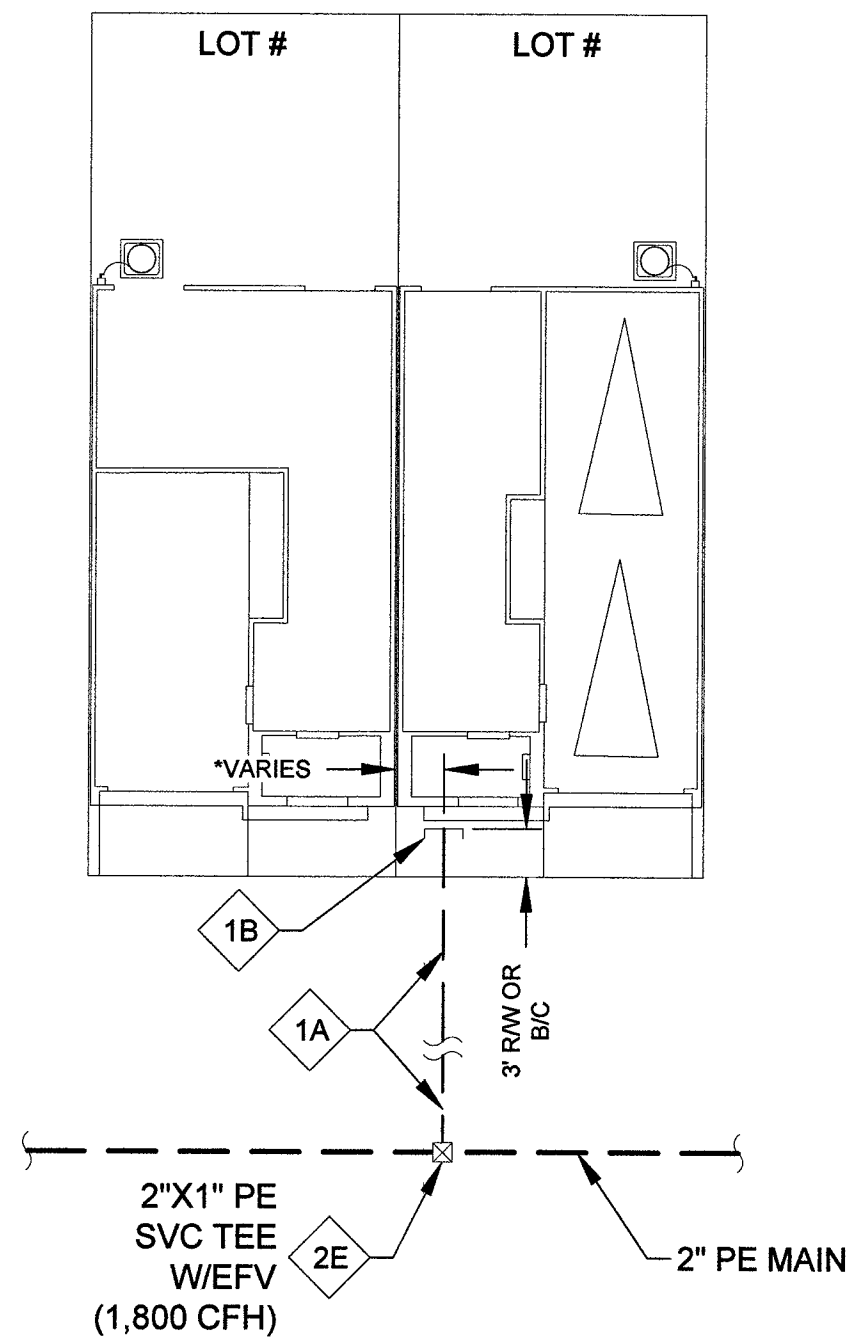
REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	JUSTIN MARTINEZ	PHONE: (702) 365-2095
					SYSTEM MAOP:	60	HP SERVICE	☐	ACCOUNT REP.	ANDREW CARLSON	PHONE: (702) 370-5067
					SYSTEM MOP:	55	DISTRIBUTION	☒	PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 258-4447
NO.	DESCRIPTION			BY	DATE	APPVD.	FEEDER	☐	SHEET NO.	4 OF 8	SCALE N.T.S.
							TRANS. BY DEF	☐	DWN. BY	INFINITY	CHKD. BY CS
							TRANS > 20%	☐	DATE 09/03/2019		
							APPVD. BY BWJ				
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		N/A	RELATED WR NO.S				
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_508 ISO_21_DIST_509	T20S R60E S7 T20 R59E S12 M.D.M.	X579Y538		SYSTEM MAOP: N/A SYSTEM MOP: N/A	N/A				
HUALAPAI & ALEXANDER											
119-01032 107Y5108-HA											



5A
-
TYPICAL RESIDENTIAL
SINGLE SERVICE
LATERAL DETAIL
N.T.S.



5B
-
TYPICAL RESIDENTIAL
BRANCH SERVICE
LATERAL DETAIL
N.T.S.



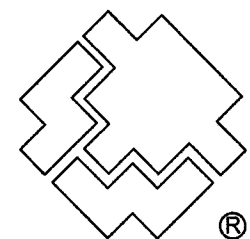
*LOCATION OF PROPOSED
GAS SERVICES VARIES.
ACTUAL LOCATION TO BE
DETERMINED DURING
INSTALLATION

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2D	62	0	160-8577	TAPPING TEE, 2" X 1" PE, 1200 EFV	N/A	N/A
2E	31	0	160-8394	TAPPING TEE, 2" X 1" PE, 1800 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	1,348	0	101-8526	PIPE 1" PE 8100 500 FT COIL	N/A	N/A
1B	93	0	850-8773	CAP, 1" PE LYCO	N/A	N/A



Know what's below.
Call before you dig.



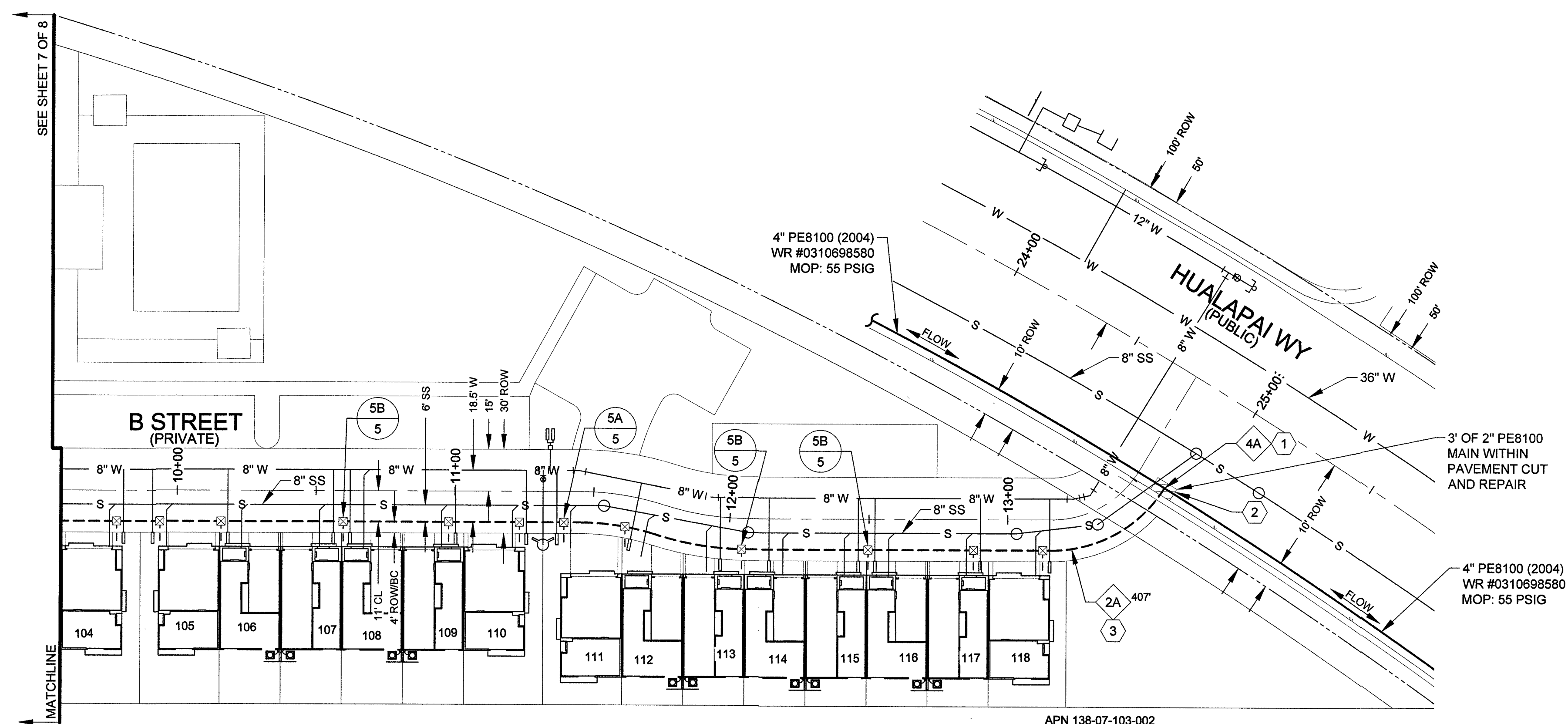
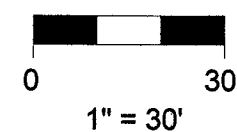
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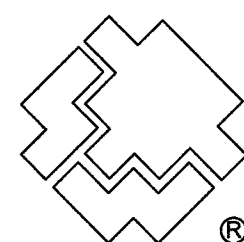
REVISIONS					D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	JUSTIN MARTINEZ	PHONE: (702) 365-2095	
						SYSTEM MAOP: 60	HP SERVICE ☐	3855289	ACCOUNT REP.	ANDREW CARLSON	PHONE: (702) 370-5067	
						SYSTEM MOP: 55	DISTRIBUTION ☒		PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 258-4447	
									SHEET NO. 5 OF 8	SCALE N.T.S.	DATE 09/03/2019	
NO.	DESCRIPTION			BY	DATE	APPVD.			DWN. BY	INFINITY	CHKD. BY CS	APPVD. BY BWJ
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		N/A		FEEDER	RELATED WR NO.S	HUALAPAI & ALEXANDER		
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_508 ISO_21_DIST_509	T20S R60E S7 T20 R59E S12 M.D.M.	X579Y538		SYSTEM MAOP: N/A	TRANS. BY DEF ☐	N/A				
						SYSTEM MOP: N/A	TRANS > 20% ☐					



CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 4" PE8100
2	RTC 500.2
3	RTC 503



Know what's **below**.
Call before you dig.

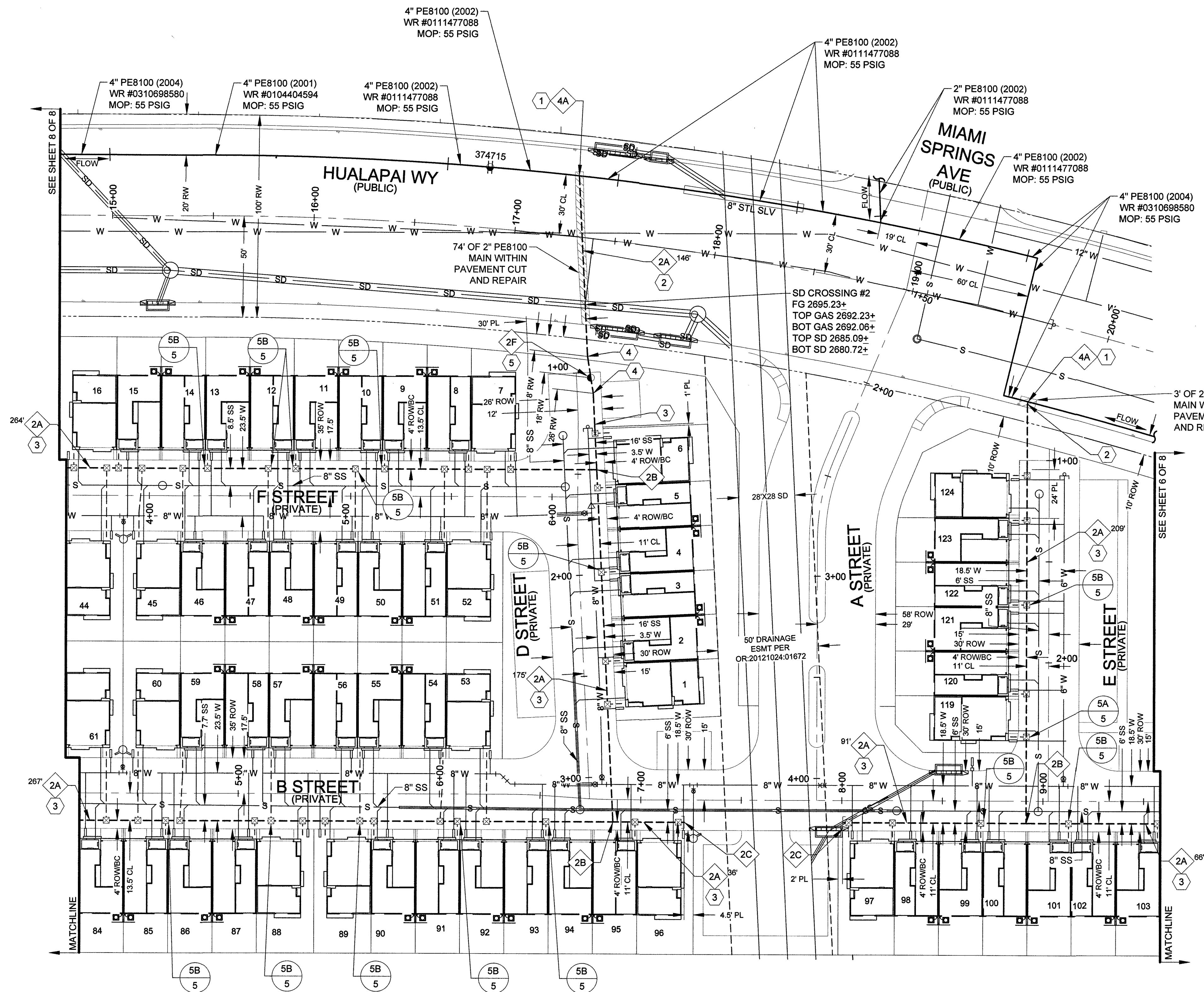
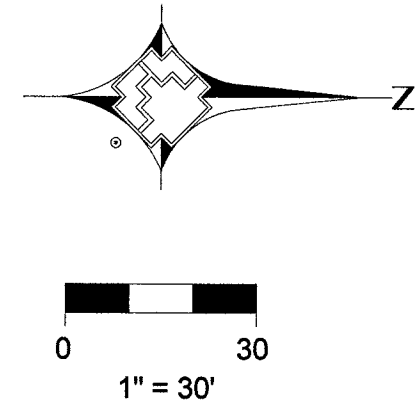


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REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN JUSTIN MARTINEZ PHONE: (702) 365-2095	
					SYSTEM MAOP: 60	HP SERVICE ☐	3855289	ACCOUNT REP. ANDREW CARLSON PHONE: (702) 370-5067				
					SYSTEM MOP: 55	DISTRIBUTION ☒			PROJECT CONTACT DAVE WAGNER PHONE: (702) 258-4447			
									SHEET NO. 6 OF 8 SCALE 1" = 30' DATE 09/03/2019			
NO.	DESCRIPTION			BY	DATE	APPVD.		DWN. BY INFINITY	CHKD. BY CS	APPVD. BY BWJ		
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		N/A		FEEDER ☐	RELATED WR NO.S		HUALAPAI & ALEXANDER	
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_508 ISO_21_DIST_509	T20S R60E S7 T20 R59E S12 M.D.M.	X579Y538		SYSTEM MAOP: N/A SYSTEM MOP: N/A	TRANS. BY DEF ☐ TRANS > 20% ☐	N/A				
L19-01032 102x5108-4A												

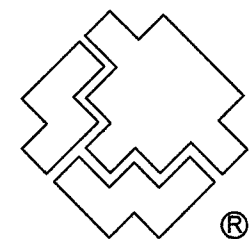
30



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

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	1,254'	0'	100-5101	PIPE 2" PE 8100 500 FT COIL	N/A	N/A
2B	3	0	140-3074	TEE, 2" PE	N/A	N/A
2C	2	0	140-3060	CAP, 2" PE	N/A	N/A
2F	1	0	120-8605	VALVE, 2", PE, BALL	N/A	N/A

CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 4" PE8100
2	RTC 500.2
3	RTC 503
4	ROPE PROP 2" PE
5	INSTALL NEW 2" BALL VALVE, VALVE# 520327, FID# 21DVE5016314



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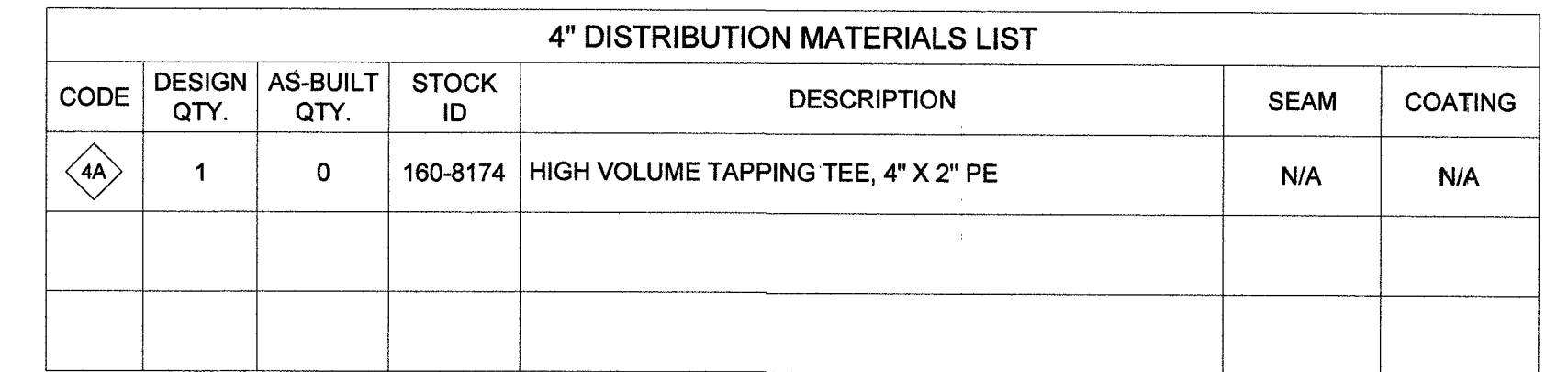
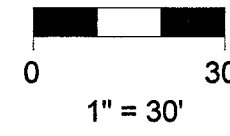
REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPVD.
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_508 ISO_21_DIST_509	T20S R60E S7 T20 R59E S12 M.D.M.	X579Y538

D_W VALLEY	
SYSTEM MAOP:	60
SYSTEM MOP:	55
SYSTEM MAOP:	N/A
SYSTEM MOP:	N/A

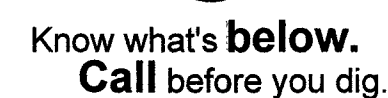
JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.	
3855289	
RELATED WR NO.S	
N/A	

ENGINEER/TECHNICIAN	JUSTIN MARTINEZ	PHONE: (702) 365-2095
ACCOUNT REP.	ANDREW CARLSON	PHONE: (702) 370-5067
PROJECT CONTACT	DAVE WAGNER	PHONE: (702) 258-4447
SHEET NO. 7 OF 8	SCALE 1" = 30'	DATE 09/03/2019
DWN. BY INFINITY	CHKD. BY CS	APPVD. BY BWJ
HUALAPAI & ALEXANDER		
L19-01032 107Y5108-HA		

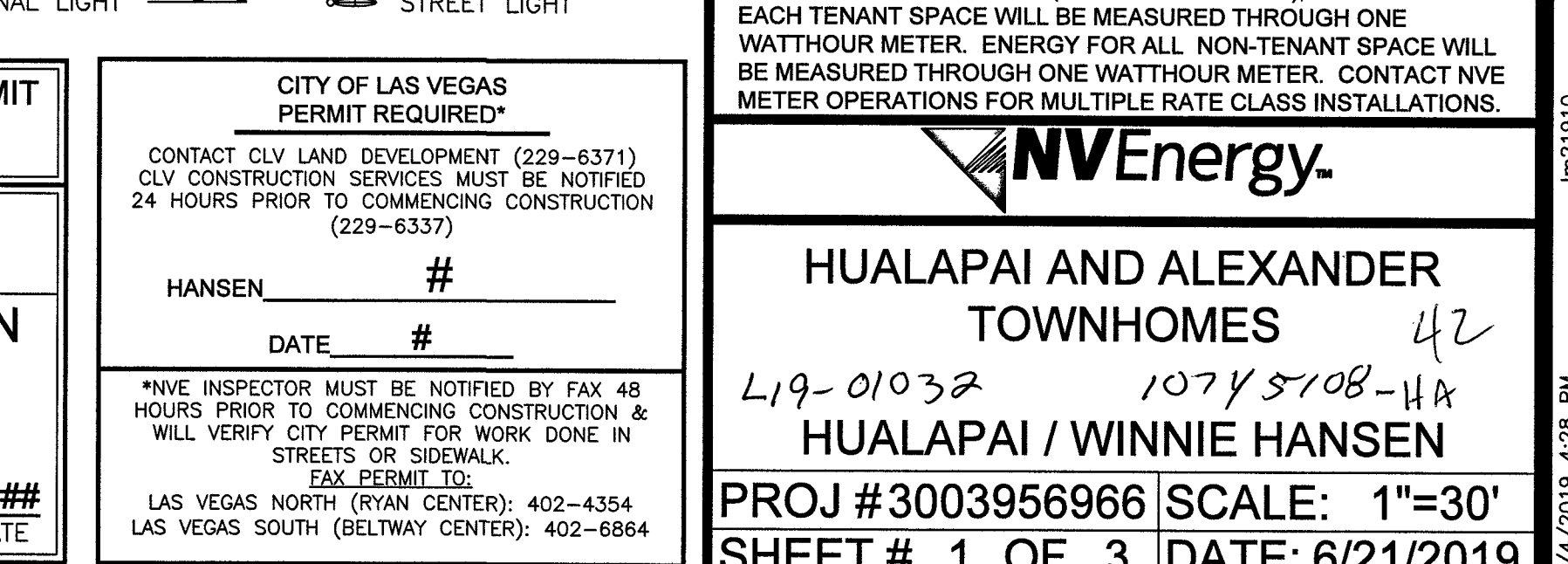
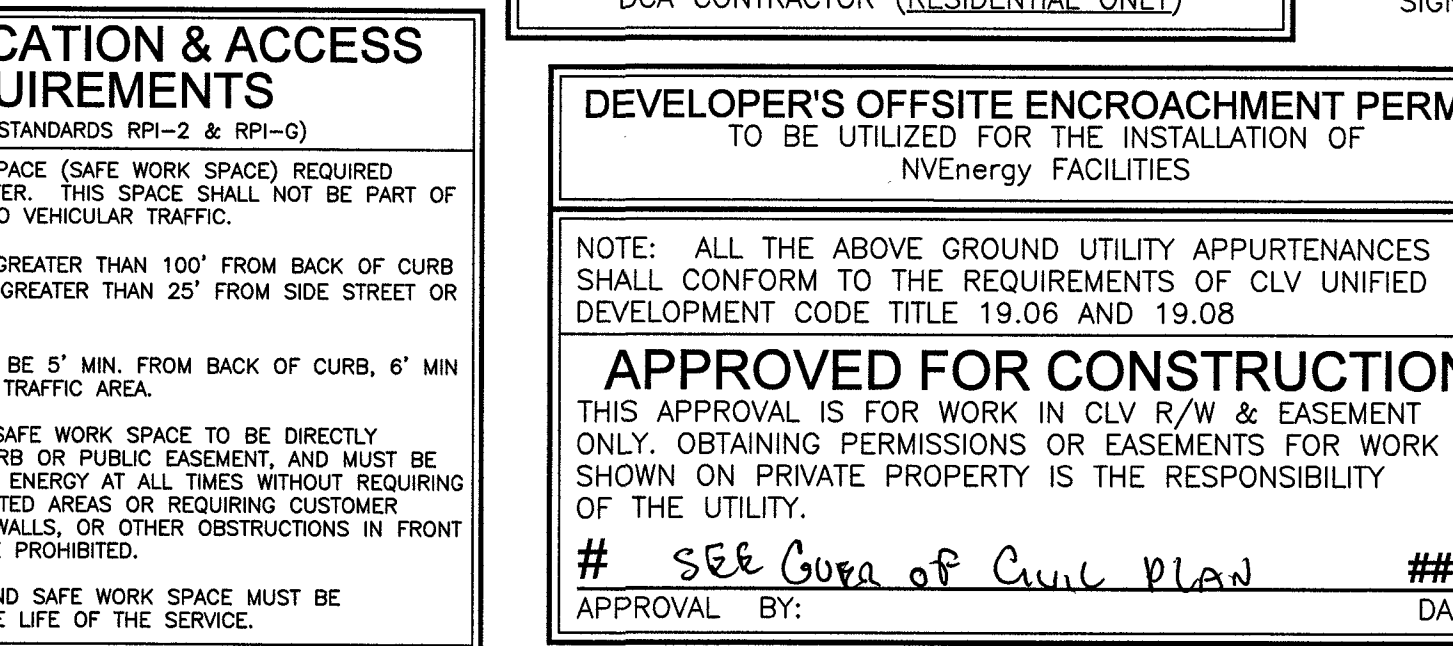
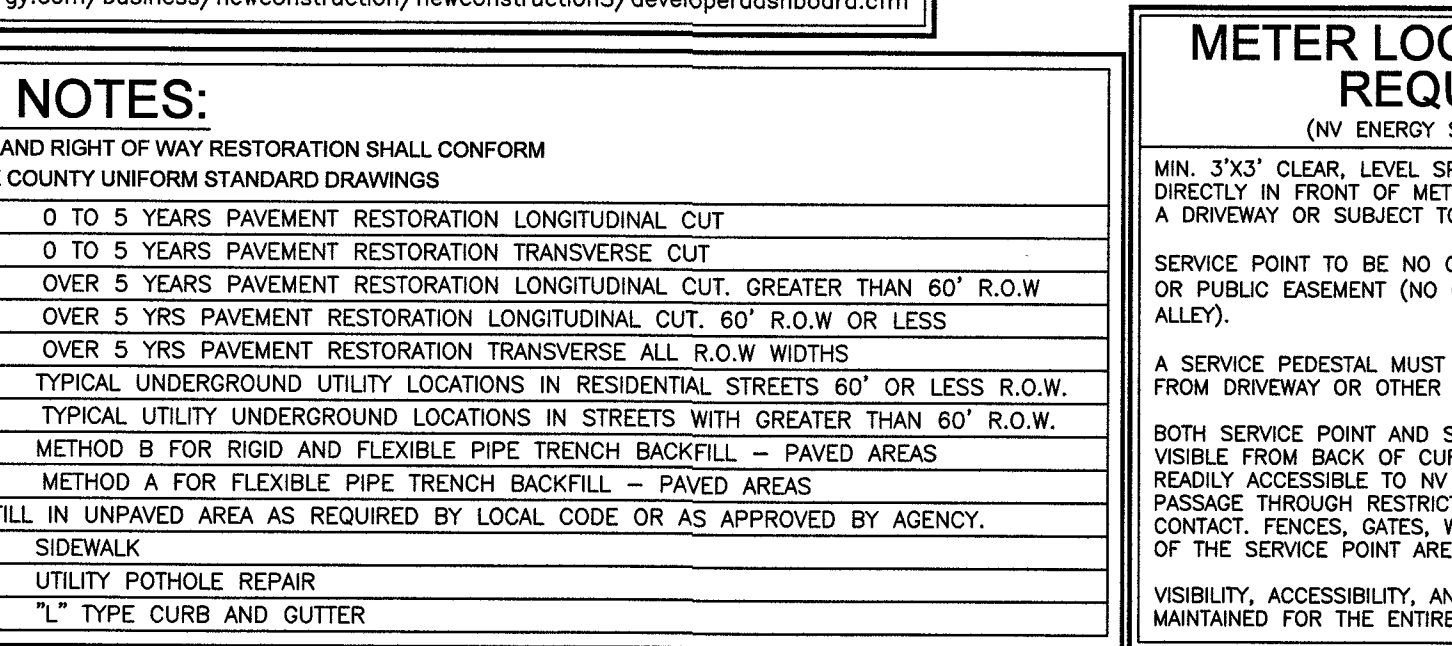


CONSTRUCTION NOTES	
1	TIE NEW 2" PE8100 TO EXISTING 4" PE8100
2	RTC 500.2
3	RTC 503



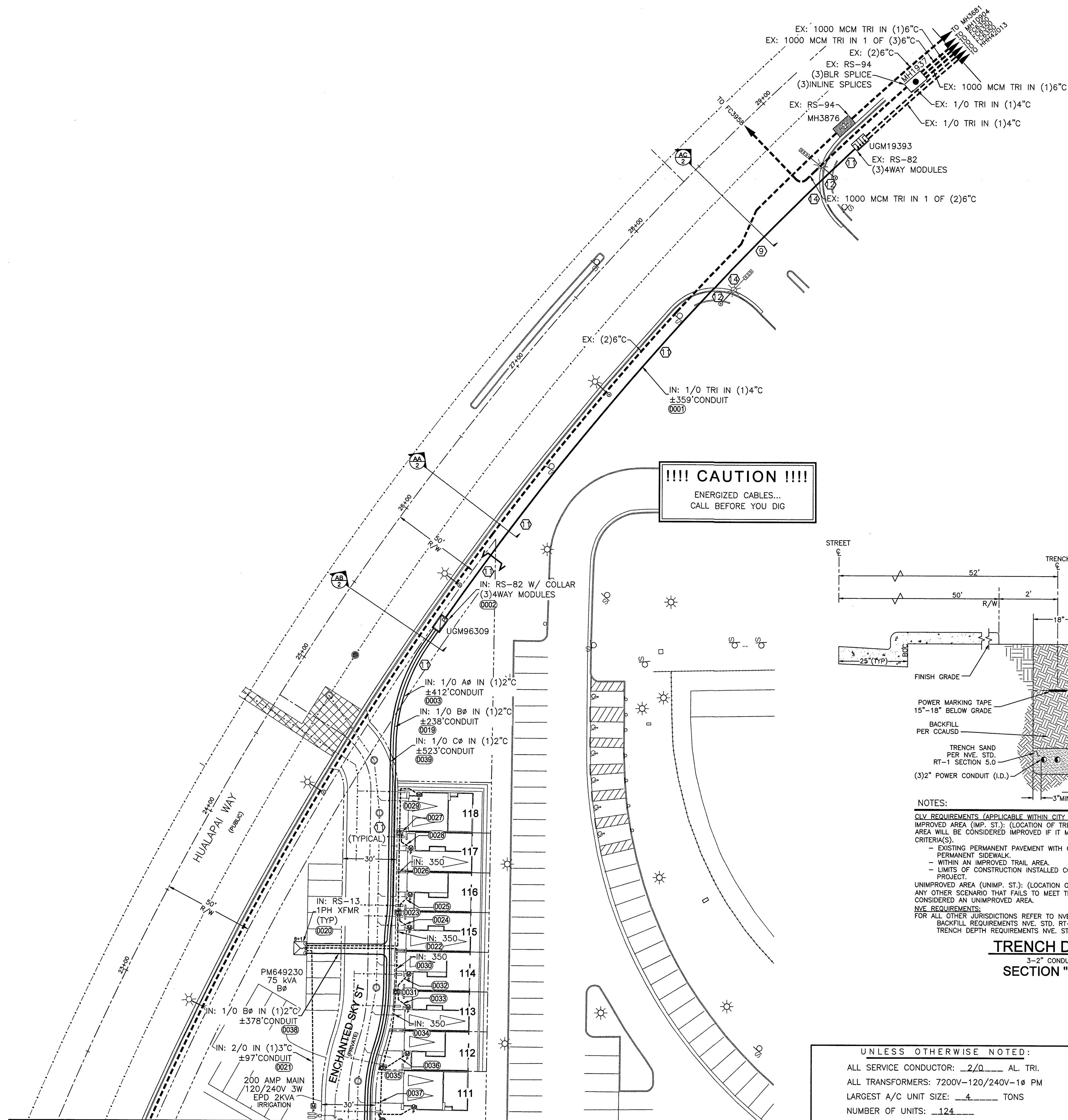
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REVISONS					D_W_VALLEY		JOB TYPE		WR NO.	ENGINEER/TECHNICIAN JUSTIN MARTINEZ			PHONE: (702) 365-2095
					SYSTEM MAOP:	60	HP SERVICE	☐	3855289	ACCOUNT REP. ANDREW CARLSON		PHONE: (702) 370-5067	
					SYSTEM MOP:	55	DISTRIBUTION	☒		PROJECT CONTACT DAVE WAGNER		PHONE: (702) 258-4447	
NO.	DESCRIPTION			BY	DATE	APPVD.				SHEET NO. 8 OF 8	SCALE 1" = 30'	DATE 09/03/2019	
										DWN. BY INFINITY	CHKD. BY CS	APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE	N/A		FEEDER		☐	RELATED WR NO.S	HUALAPAI & ALEXANDER 619-01032 10745708-HA		
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_508 ISO_21_DIST_509	T20S R60E S7 T20 R59E S12 M.D.M.	X579Y538	SYSTEM MAOP:	N/A	TRANS. BY DEF		☐	N/A			
					SYSTEM MOP:	N/A	TRANS > 20%		☐				



Sharing of this drawing and the information contained herein shall be only to individuals/parties who have entered into an agreement with Applicant for the completion of work associated with this specific project. Use for purposes other than this specific project requires the written consent of NV Energy.

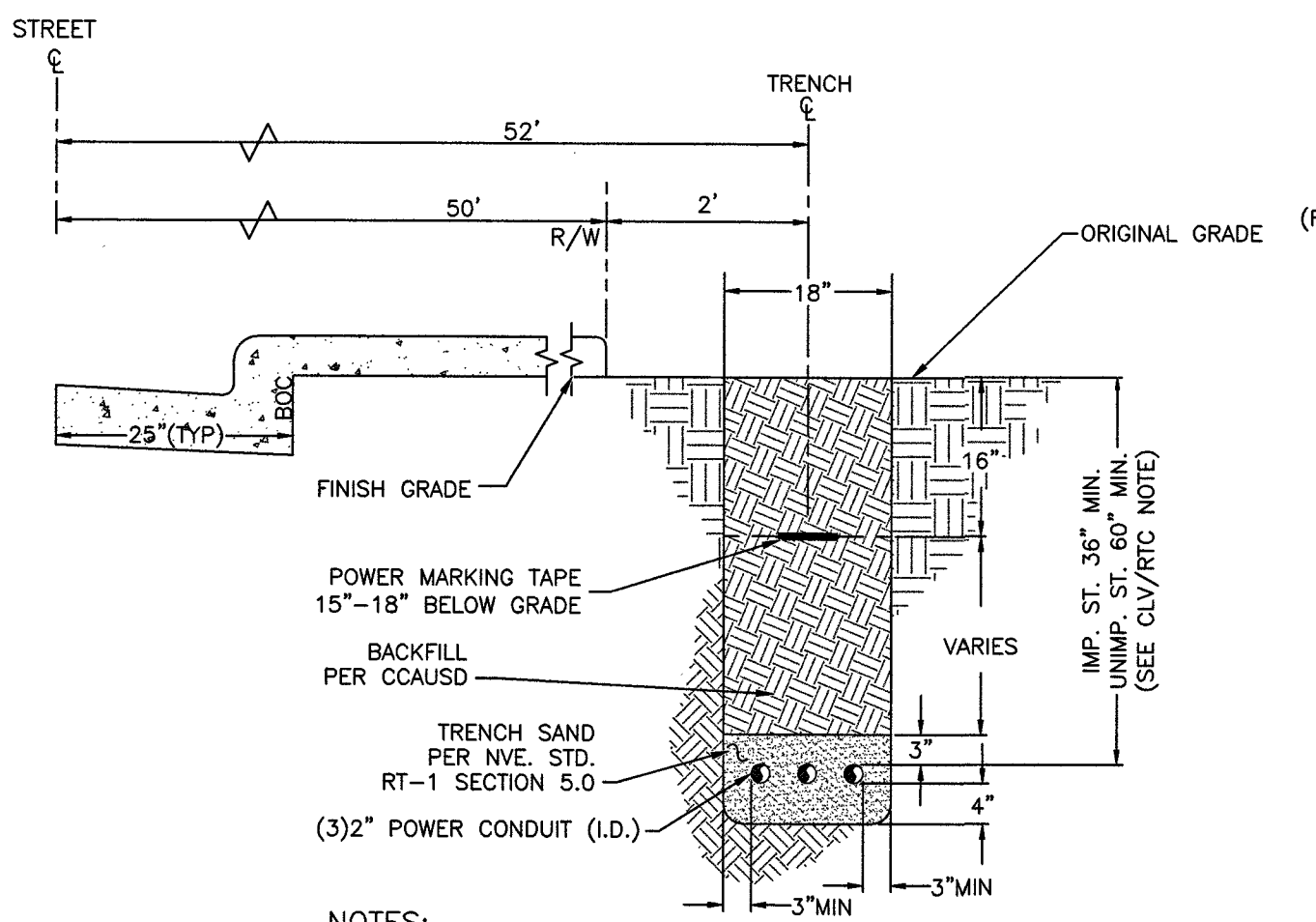
0 REVISION(S)



MATCH LINE 'A' - SEE SHEET 3

UNLESS OTHERWISE NOTED:
ALL SERVICE CONDUCTOR: 2/0 AL. TRI.
ALL TRANSFORMERS: 7200V-120/240V-1Ø PM
LARGEST A/C UNIT SIZE: 4 TONS
NUMBER OF UNITS: 124
MAIN SIZE: 200 AMPS
ESTIMATED KVA PER UNIT: 6.4 KVA
SQ. FT. OF LARGEST UNIT: 2000 SQ. FT.

TRENCH DETAIL SECTION "AB"



NOTES:
CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

DEVELOPER'S OFFSITE ENCROACHMENT PERMIT TO BE UTILIZED FOR THE INSTALLATION OF NVEnergy FACILITIES

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

SEE COVER OF CIVIL PLAN ####
APPROVAL BY: DATE

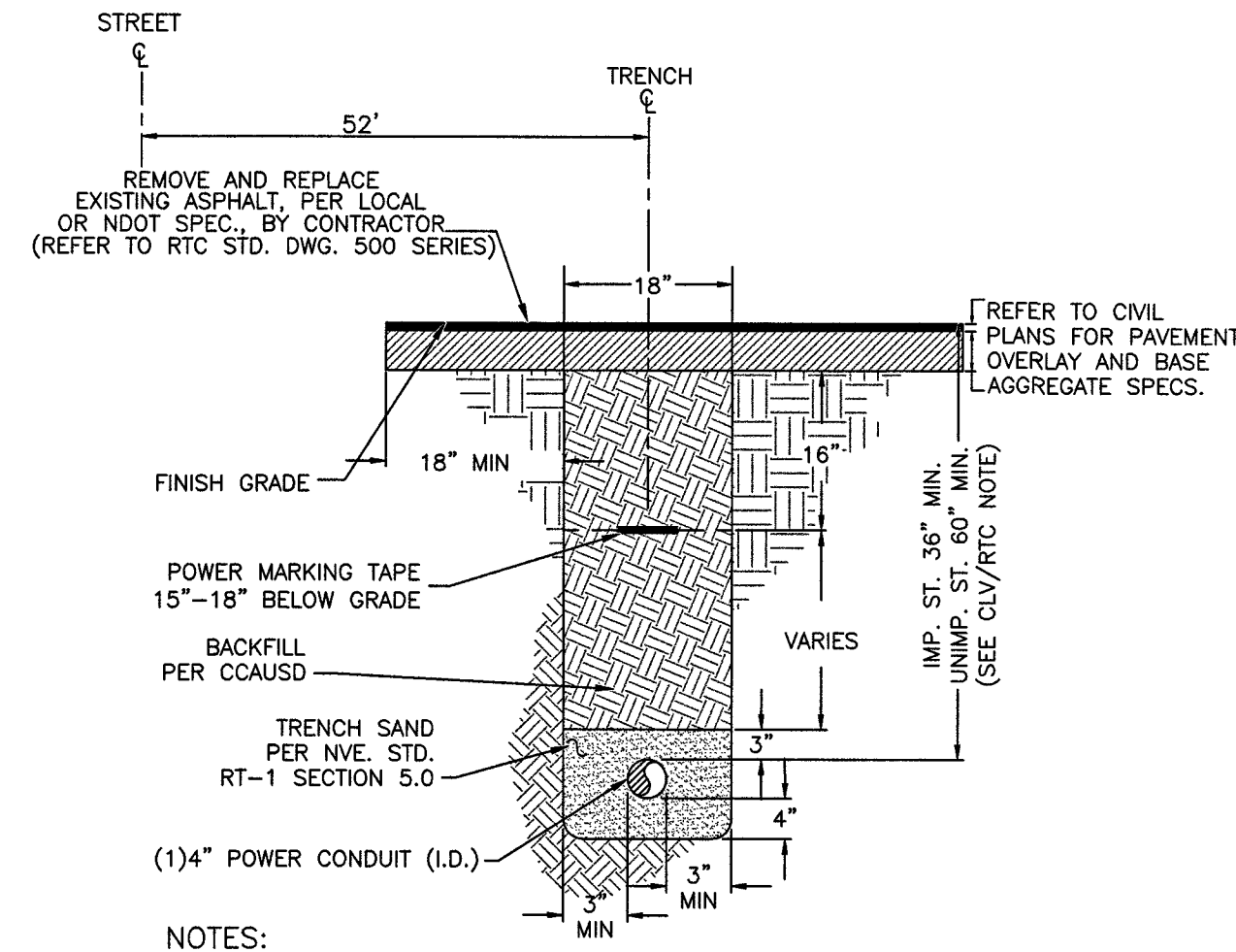
CITY OF LAS VEGAS PERMIT REQUIRED

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

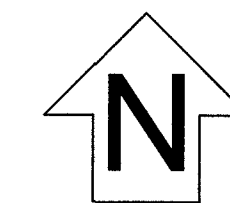
HANSEN #
DATE #

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6884

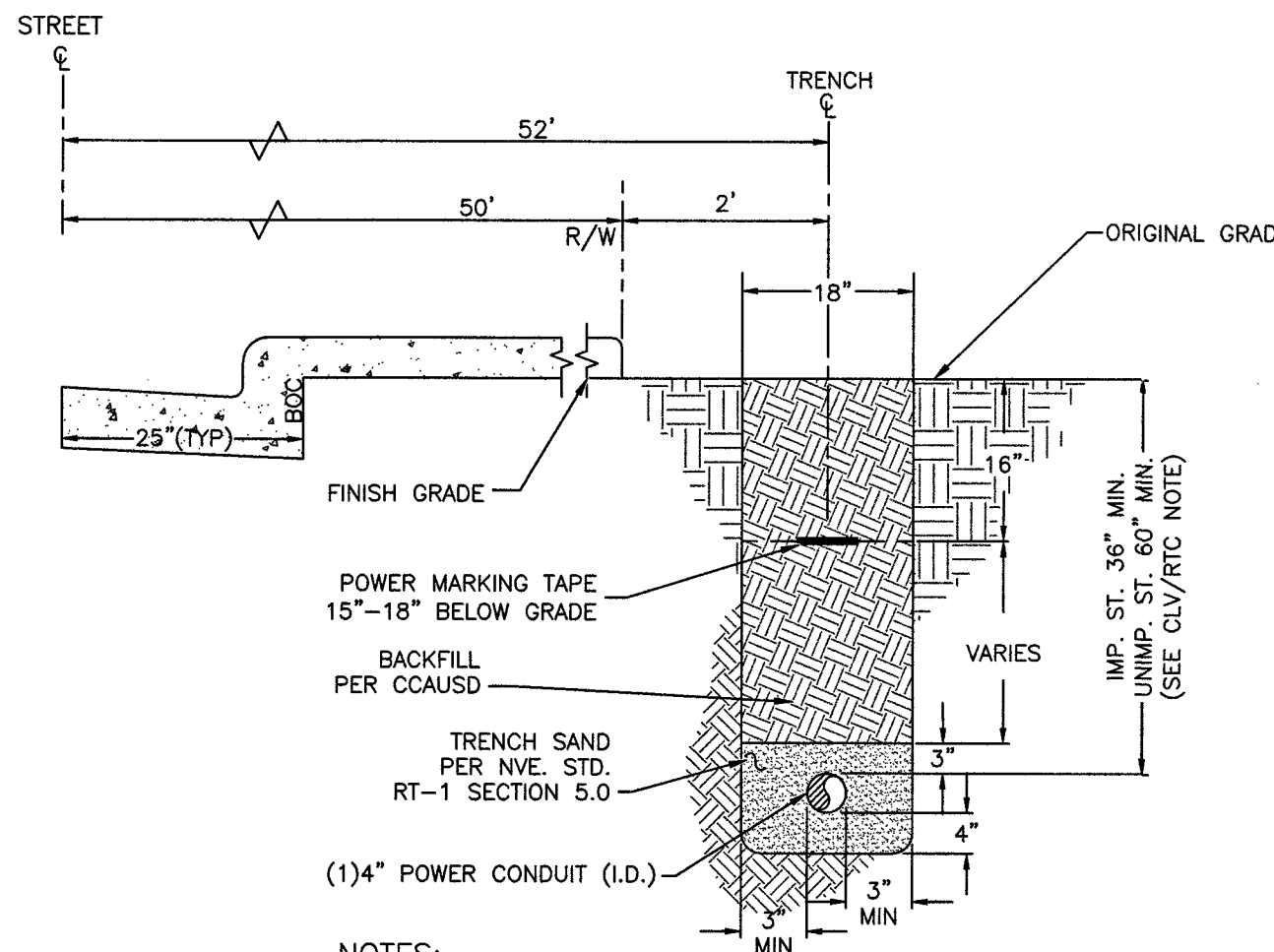
TRENCH DETAIL SECTION "AC"



NOTES:
CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):
IMPROVED AREA (IMP. ST.): (LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(S):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK.
- WITHIN AN IMPROVED TRAIL AREA.
- LIMITS OF CONSTRUCTION INSTALLED CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT.
UNIMPROVED AREA (UNIMP. ST.): (LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(S) WILL BE CONSIDERED AN UNIMPROVED AREA.
NVE REQUIREMENTS:
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

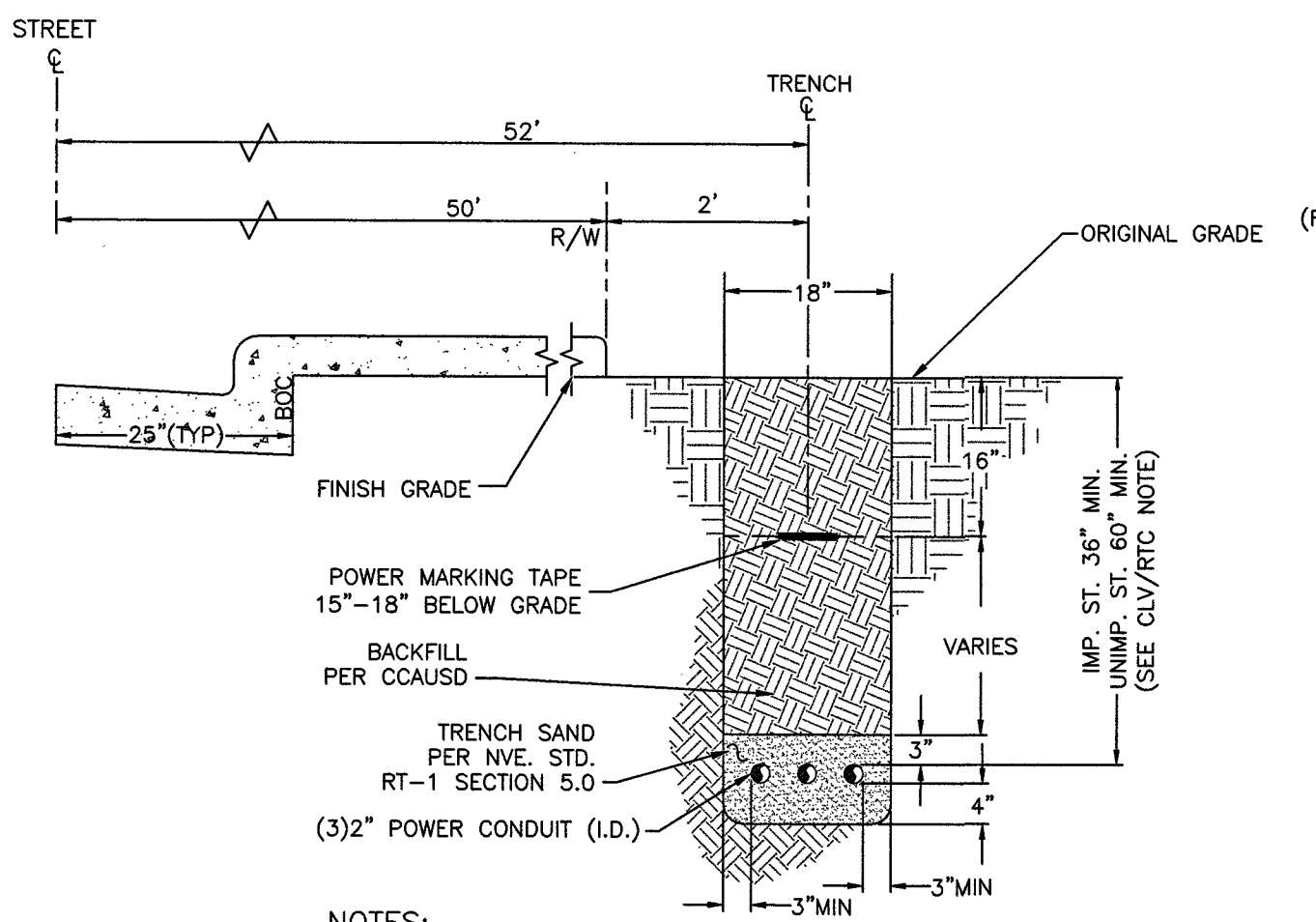


T,R,S: 20-60-07
APN: 13807103006
13807201002
13807201001



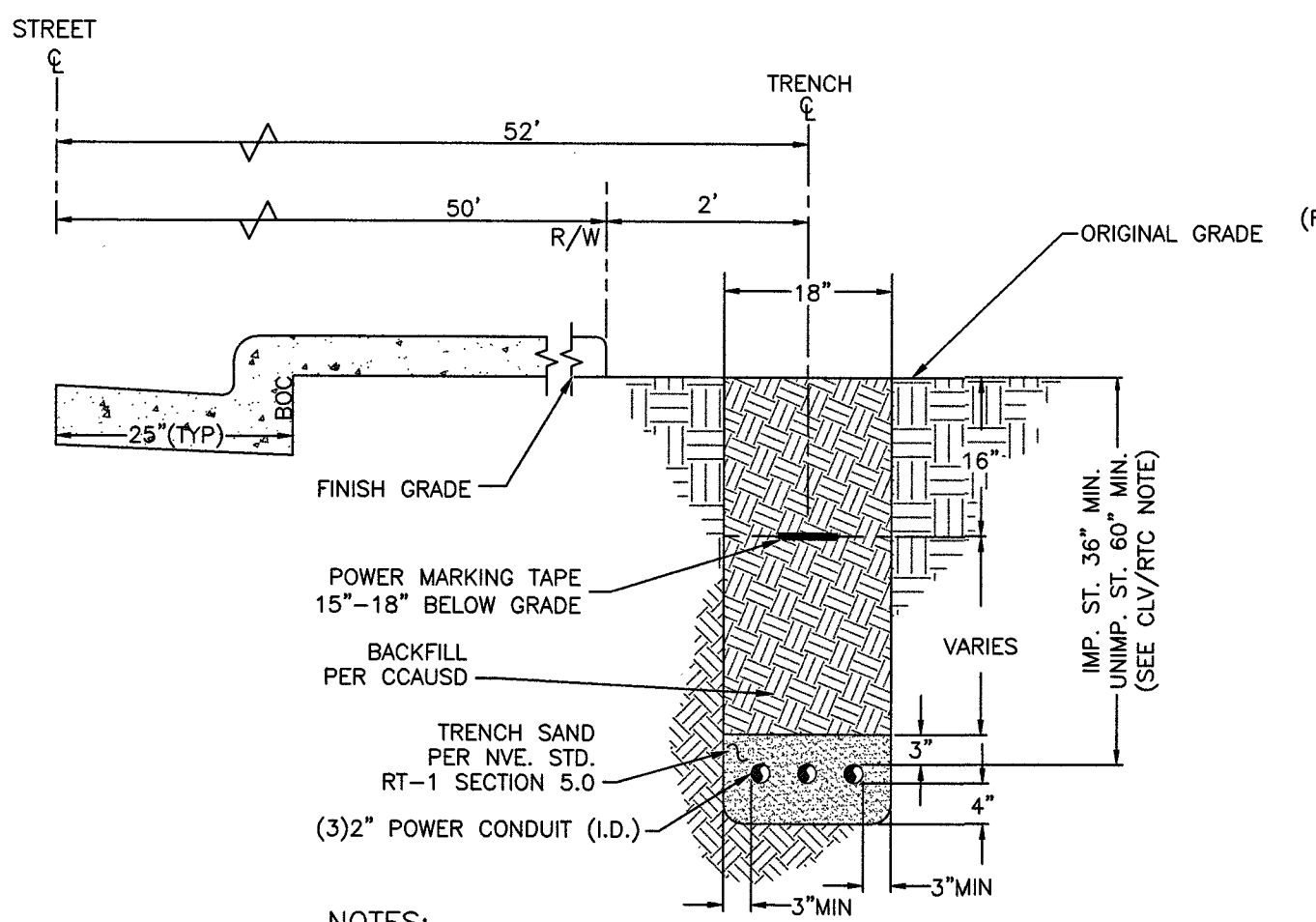
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TRENCH DETAIL SECTION "AA"



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BACKFILL REQUIREMENTS NVE. STD. RT-1.
TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL SECTION "AB"



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TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

DEVELOPER'S OFFSITE ENCROACHMENT PERMIT TO BE UTILIZED FOR THE INSTALLATION OF NVEnergy FACILITIES

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

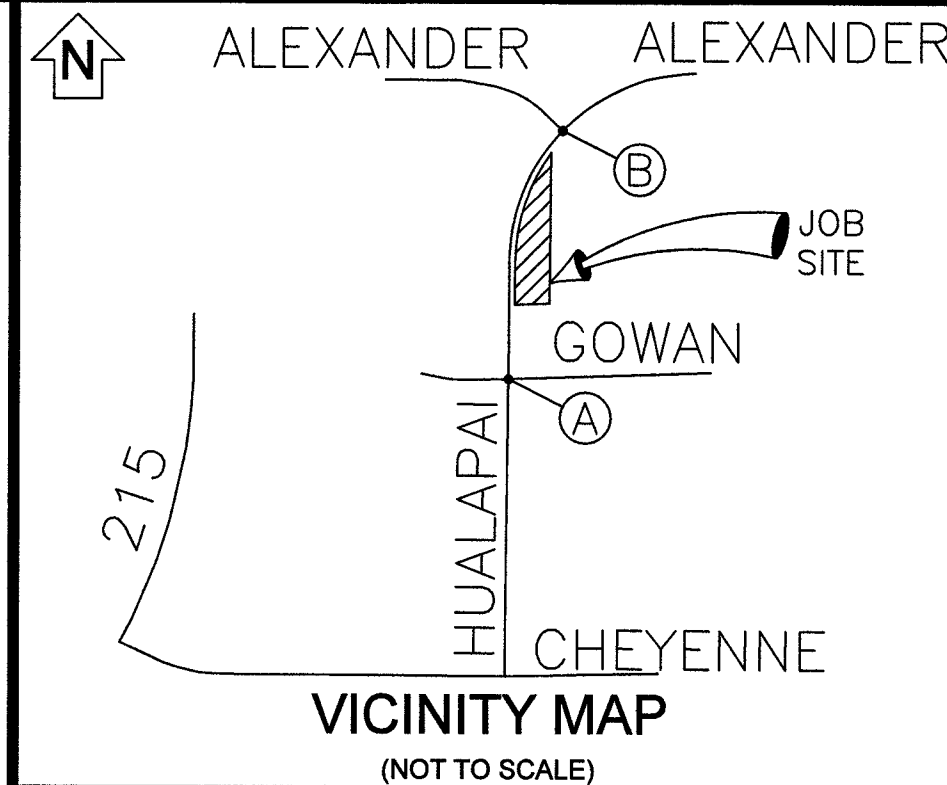
SEE COVER OF CIVIL PLAN ####
APPROVAL BY: DATE

CITY OF LAS VEGAS PERMIT REQUIRED

CONTACT CLV LAND DEVELOPMENT (229-6371)
CLV CONSTRUCTION SERVICES MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING CONSTRUCTION (229-6337)

HANSEN #
DATE #

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6884



EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

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

CALL 811
OR
1-800-227-2600
AND CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-6000

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

STANDARD DCA

PROJECT PURPOSE:
TO PROVIDE 120/240V 1Ø POWER TO NEW TOWNHOMES.
124 SINGLE FAMILY ATTACHED UNITS AND 2 GS METERS.

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: MONTOYA, LUIS
PHONE: (702) 402-6824 D.F. LOWELL, KEN
DESIGNER: KERN, ZACHARY
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UG@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A
CUSTOMER INFORMATION:
APPLICANT: TOUCHSTONE LIVING, INC.
APPLICANT CONTACT: MANNING, DUSTIN
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 11/04/19

GOVERNMENT INFORMATION:
AGENCY(S): CLV

APPROVAL DATE(S):
FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

NVEnergy.

HUALAPAI AND ALEXANDER 43
TOWNHOMES
L19-01032 107Y5108-4A
HUALAPAI / WINNIE HANSEN

PROJ #3003956966 SCALE: 1"=30'
SHEET # 2 OF 3 DATE: 6/21/2019

