CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL	COMPACTION
A. PAVEMENT AREA SUBGRADE	0.1'±	+0.0' TO -0.1'	SEE SOILS REPORT
B. ENGINEERED FILL	0.5'±	+0.1' TO -0.1'	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT- OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 4/15/10

STORMWATER RUNOFF MANAGEMENT

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF 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. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

LAS VEGAS FIRE AND RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S – APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC SECTION 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC SECTION 3310, SECTION 3312]
5. TO IDENTIFY FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS [IFC SECTION 507.5.7.3].
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC SECTION 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC SECTION 507.2.1]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC SECTION 507]
9. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED. [IFC SECTION 507]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC SECTION 507]
11. FIRE HYDRANTS SPACING SHALL BE AS FOLLOWS: [IFC SECTION C102]
RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FEET ON AN ALTERNATING BASIS. [IFC SECTION C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC SECTION C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC SECTION C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE. [IFC SECTION C102.7]
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC SECTION C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC SECTION C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC SECTION 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC SECTION 503.2.7, SECTION 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS. [IFC 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FEET 6 INCHES. [IFC SECTION 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW LINE TO FLOW LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FT. [IFC SECTION 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL FO THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC SECTION 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC SECTION 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC SECTION 503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE IN STALLED NO HIGHER THAN 10 FT OR LESS THAN 8 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC SECTION 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC SECTION 503.6 AND IFC APPENDIX M.

LAS VEGAS FIRE DEPARTMENT — DATE 12/7/16

REVISED MARCH 1, 2016

FLOOD ZONE NOTE

NO PORTION OF THE SITE FALLS WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA. SITE LOCATED ON PANEL 32003C2150E, 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.

DEVIATION FROM STANDARDS

1. NONE

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCED WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. 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 CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANIT-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT-OF-WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. 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 TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY 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 AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED 4/15/10

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
4. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER..
7. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
8. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
9. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED JUNE 28, 2016 (LD VERSION)

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 135633

REVISED 08/01/17

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LVVWD APPROVED PRODUCTS' LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2600
14. THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY TH

ABBREVIATIONS

A	AIR
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE, ACRE
ACP	ASBESTOS CEMENT PIPE
ADD'L	ADDITIONAL
A.E.	ACCESS EASEMENT
AP	ANGLE POINT
APN	ASSESSOR'S PARCEL NUMBER
APPROX	APPROXIMATELY
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
AVAR	AIR VALVE, AIR RELEASE ASSEMBLY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BCR	BEGIN CURB RETURN
BLM	BUREAU OF LAND MANAGEMENT
BLVD	BOULEVARD
BM	BENCHMARK
BO	BLOW-OFF
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BACK OF SIDEWALK
BWV	BACK WATER VALVE
C, ℄	CENTERLINE
C&G	CURB AND GUTTER
CATV	UNDERGROUND CABLE TV
CCBM	CLARK COUNTY BENCH MARK
CCPW	CLARK COUNTY PUBLIC WORKS
CCTV	CLOSED-CIRCUIT TELEVISION
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
C.E.	COMMON ELEMENT
CFS	CUBIC FEET PER SECOND
CIP	CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE
CIPM	CURED-IN-PLACE MANHOLE
CIPP	CURED-IN-PLACE PIPE
CIR	CIRCLE
CLR	CLEAR OR CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CITY OF LAS VEGAS
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNLV	CITY OF NORTH LAS VEGAS
CO	CLEANOUT
CONC	CONCRETE
COND	CONDUIT
CONST	CONSTRUCT OR CONSTRUCTION
COORD	COORDINATE
COR	CORNER
CPEP	CORRUGATED POLYETHELYNE PIPE
CT	COURT
CY	CUBIC YARD(S)
Δ	DELTA
DCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST EDITION)
D.E.	DRAINAGE EASEMENT
DEFL	DEFLECTION
DG	DESIGNED GRADE
D.I.	DROP INLET
DIA, ø	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DS	DOWNSPOUT
DTL	DETAIL
DW	DRIVEWAY
DWG	DRAWING
E	EAST
E.A.E.	EMERGENCY ACCESS EASEMENT
ECR	END CURB RETURN
ELE,ELEC	ELECTRICAL
ELEV	ELEVATION
EP, EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EXIST,EX	EXISTING
EXP	EXPANSION JOINT
FC	FACE OF CURB
FF, FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FINISH SURFACE
FT	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
G	GAS
GA	GAGE, GUY ANCHOR
GB	GRADE BREAK
GND	GROUND
GRD	GRADE, GROUND
H, HGT	HEIGHT
HDWL	HEADWALL
HGL	HYDRAULIC GRADE LINE
HOA	HOME OWNERS ASSOCIATION
HORIZ	HORIZONTAL
HP	HIGH POINT, HIGH PRESSURE
HPS	HIGH PRESSURE SODIUM
IBC	INTERNATIONAL BUILDING CODE
INV	INVERT
INT	INTERIM
JT	JOINT
L	LENGTH
L, LT	LEFT
LF	LINEAR FEET
LIP	LIP OF GUTTER
LN	LANE
LP	LIGHT POLE
LSCP	LANDSCAPE
LVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MLCP	MORTAR LINED AND COATED PIPE
MOD	MODIFY/MODIFIED
MON	MONUMENT
MPH	MILES PER HOUR
N	NORTH
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NO	NUMBER
NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
NPC	NEVADA POWER COMPANY
NTS	NOT TO SCALE
OC	ON CENTER
OHC	OVERHEAD COX COMMUNICATION
OHP	OVERHEAD POWER LINE
P.A.E.	PEDESTRIAN ACCESS EASEMENT
PB	PULL BOX
PC	POINT OF CURVE, PRESSURE CLASS
PCC	POINT OF COMPOUND CURVE
P.D.E.	PUBLIC DRAINAGE EASEMENT
PE	PROJECT ENGINEER OR POLYETHYLENE
PED	PEDESTRIAN
PGL	PROFILE GRADE LINE
PH	POTHOLE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PLCP	POLYURETHANE LINED AND COATED STEEL PIPE
PMF	PAVEMENT MARKING FILM
POB	POINT OF BEGINNING
POC	POINT ON CURVE
P.O.C.	POINT OF CONNECTION
POT	POINT ON TANGENT
PP	POWER POLE
PROP	PROPOSED
PRC	POINT OF REVERSE CURVE
P.S.E.	PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED BY HOA
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
P.U.E.	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	PRIVATE
PZ	PRESSURE ZONE
R, RAD	RADIAL, RADIUS
R, RT	RIGHT
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REC	RECTANGULAR
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
RIM	TOP OF RIM ELEVATION
RND	ROUND
ROW,R/W	RIGHT OF WAY
RP	RADIUS POINT
RPM	RAISED PAVEMENT MARKERS
RPPA	REDUCED PRESSURE PRINCIPAL ASSEMBLY
RSGV	RESILIENT SEAT GATE VALVE
S	SEWER, SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SECT	SECTION
SF	SQUARE FOOT/FEET
SHLDR	SHOULDER
SHT	SHEET
SL	STREET LIGHT
SP	SERVICE POINT
SQ	SQUARE
SR	SEWER RECLAIM MAIN
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
ST	STREET
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE
SVZ	SIGHT VISIBILITY ZONE
SW	SIDEWALK
SWG	SOUTHWEST GAS
T	TELEPHONE OR TOP
TAN	TANGENT
TB	TOP OF BERM
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION ESMT
TEL,TELE	TELEPHONE
TEMP	TEMPORARY
TF	TOP OF FOOTING
TG	TOP OF GRATE
TMH	TOP OF MANHOLE
TOP	TOP OF PIPE
TP	TELEPHONE POLE
TRANS	TRANSITION
TS	TRAFFIC SIGNAL
TW	TOP OF RETAINING WALL
TYP.,(TYP)	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST EDITION)
UG	UNDERGROUND
ULT	ULTIMATE
USDCCA	UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
UT	UNDERGROUND TELEPHONE
VAR	VARIABLE/VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
VOL	VOLUME
W	WATER, WEST, WATT
W/	WITH
W.I.	WROUGHT IRON
WS	WATER SUPPLY
WT	WEIGHT
WTR	WATER
XING	CROSSING
YD	YARD, YARD DRAIN
Z	PRESSURE ZONE

LEGEND

(1) LOT NUMBER	[54.10] FUTURE ELEVATION
(1) BLOCK NUMBER	59.33 TC or FG GRADE BREAK ELEVATION
F.F.= 00.0 / PAD= 00.0 PAD ELEVATION FINISH FLOOR ELEVATION	58.22 TC or FG PROPOSED ELEVATION
F.F.= (00.0) / PAD= (00.0) EXISTING PAD ELEVATION EXIST. FINISH FLOOR ELEV.	(56.21) EXISTING ELEVATION
SCARP	RIGHT-OF-WAY
4510 EXISTING CONTOUR (5' INTERVAL)	PROPERTY LINE
EXISTING CONTOUR (1' INTERVAL)	CENTER LINE
CONCRETE DRIVEWAY	RETAINING WALL
TF TOP OF FOOTING	KNEE WALL
TW TOP OF RETAINING WALL	PERIMETER WALL
SDMH STORM DRAIN MANHOLE	STORM DRAIN LINE
SVZ - SIGHT VISIBILITY ZONE, NO STRUCTURES/ LANDSCAPING TALLER THAN 24"	SIDEWALK
	DITCH OR SWALE
	CURB TRANSITION AT SIDEWALK RAMP (ROLL CURB TO "L" CURB)

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

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

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

QUANTITY ESTIMATE

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

STREET IMPROVEMENT - PRIVATE

DESCRIPTION	UNIT	TOTAL
2" AC PAVEMENT	SY	26,184
3" AC PAVEMENT	SY	–
TYPE II AGGREGATE BASE MATERIAL	CY	4,032
"L" TYPE CURB	LF	326
30" ROLL CURB	LF	12,484
"A" TYPE CURB	LF	256
SIDEWALK RAMP	EA	18
CONCRETE CROSS GUTTER	SF	5,640
4' WIDE CONCRETE SIDEWALK	SF	26,616
5' WIDE CONCRETE SIDEWALK	SF	1,025
SIDEWALK UNDERDRAIN	EA	1
TYPE III MONUMENT	EA	47

DRAINAGE - PRIVATE

DESCRIPTION	UNIT	TOTAL
18" RCP	LF	83
24" RCP	LF	1,374
30" RCP	LF	39
36" RCP	LF	153
42" RCP	LF	173
48" TYPE II MANHOLE	EA	–
60" TYPE III MANHOLE	EA	6
60" TYPE I MANHOLE	EA	9
10' TYPE "CM2" MODIFIED DROP INLET	EA	1
12.5' TYPE "CM2" MODIFIED DROP INLET	EA	3
15' TYPE "CM2" MODIFIED DROP INLET	EA	3

WATER - PUBLIC

DESCRIPTION	UNIT	TOTAL
10" PVC WATERLINE	LF	7,120
5° BEND PER UDACS PLATE NO. 31	EA	28
11.25° BEND PER UDACS PLATE NO. 31	EA	14
22.5° BEND PER UDACS PLATE NO. 31	EA	–
45° BEND PER UDACS PLATE NO. 31	EA	8
CAP & 2" BLOW-OFF PER UDACS PLATE NO. 36	EA	–
12" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39	EA	–
10" GATE VALVE, BOX, AND COVER PER UDACS PLATE NO. 30 & 39	EA	22
10" TEE PER UDACS PLATE NO. 31	EA	10
8" TEE PER UDACS PLATE NO. 31	EA	–
FIRE HYDRANT, VALVES, TEE, & 6" WATERLINE PER UDACS PLATES NO. 40	EA	14
10" CROSS PER UDACS PLATE NO. 31	EA	–
8" X 6" REDUCER PER UDACS PLATE NO. 30.	EA	–
10" X 8" REDUCER PER UDACS PLATE NO. 30.	EA	–
12" X 10" REDUCER PER UDACS PLATE NO. 30.	EA	2
1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1	EA	74
1 1/2" WATER SERVICE WITH 1 1/2" IRR. METER PER UDACS PLATE NO. 4 & 8 - PUBLIC	EA	1
1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE 3.	EA	21
COPPER LATERAL	LF	410
1 1/2" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE 3.	EA	21

WATER - PRIVATE

DESCRIPTION	UNIT	TOTAL
PRESSURE REDUCING VALVE	EA	27
WATER LATERAL	LF	1,543

SEWER - PUBLIC

DESCRIPTION	UNIT	TOTAL
8" PVC SANITARY SEWER PIPE	LF	6,424
48" DIA. SANITARY SEWER MANHOLE	EA	34
CORROSION PROTECTION AT EX. SSMH	EA	1

SEWER - PRIVATE

DESCRIPTION	UNIT	TOTAL
4" PVC SANITARY SEWER LATERAL (PRIVATE)	LF	3,485
BACK WATER VALVE (PRIVATE)	EA	43

TRAFFIC-PRIVATE

DESCRIPTION	UNIT	TOTAL
STOP SIGN	EA	10
STREET SIGN	EA	29

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — No. 14918 — MIA D. NGUYEN — Exp. 12/31/2019 — CIVIL

DATE: 12/06/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 12-06-18
PLOT TIME: 10:34:19

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

F:\Projects\500\5523-A063\DWG Production\A063-CV.dwg
Lucy Roxana Lopez

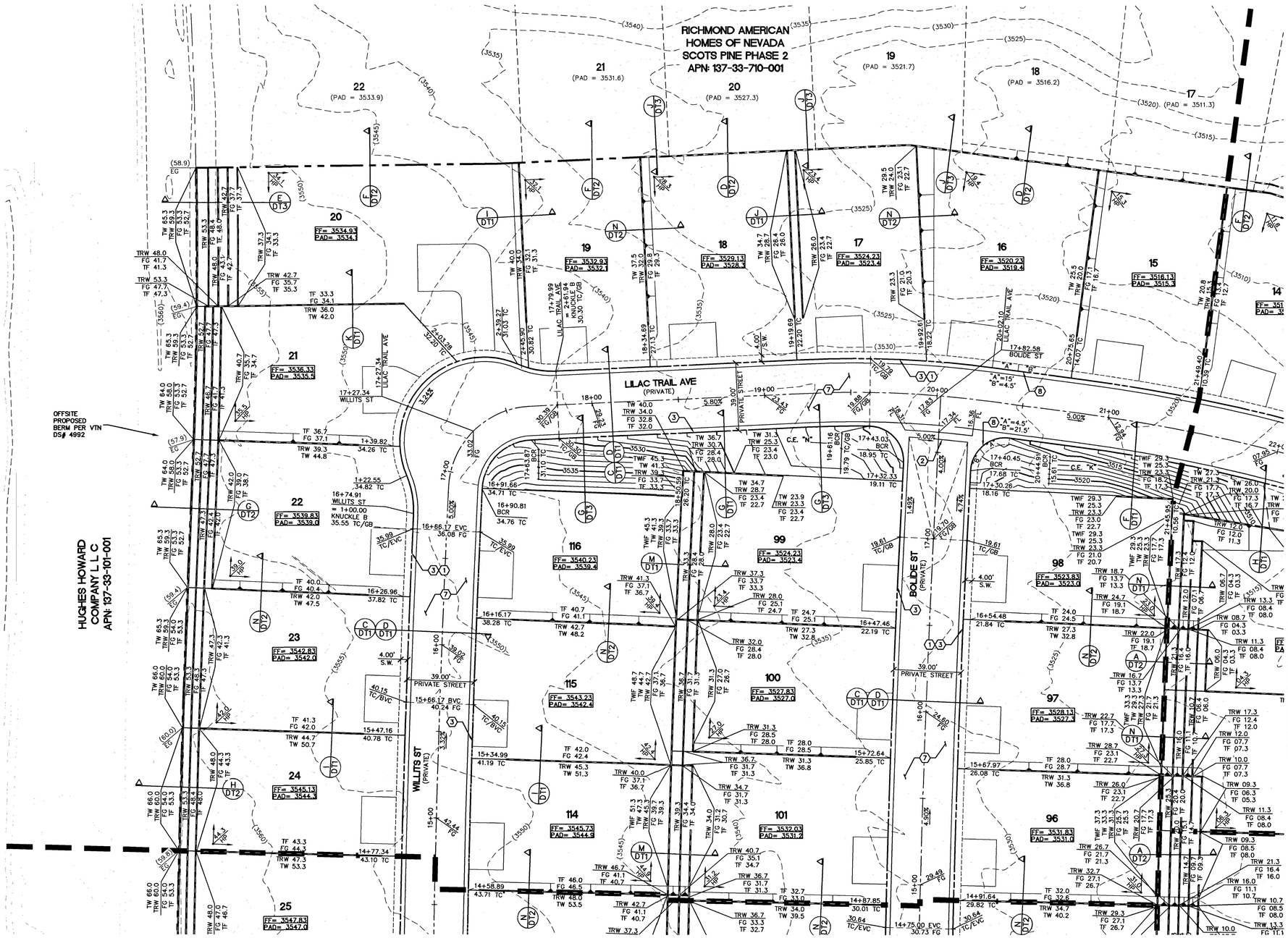
PARDEE HOMES

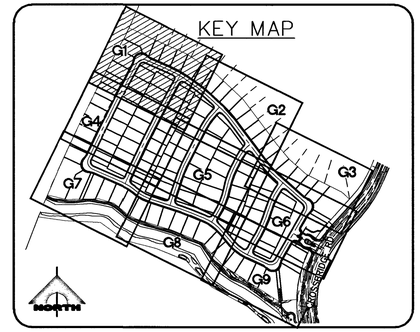
SUMMERLIN VILLAGE 24 - PARCEL I

LEGEND, ABBREVIATIONS, AND QUANTITIES

DRAWING C3
3 OF 54 SHTS

PROJ#:135633A QS:137-33-SE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-73
2. CONSTRUCT 8' WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
3. CONSTRUCT ROLL CURB PER USDCCA NO. 217.1
4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
6. INSTALL GATE – SEE LANDSCAPE.
7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
8. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
9. SAWCUT & MATCH TO EXISTING CURB & SIDEWALK. CONTRACTOR SHALL VERIFY EX. LOCATION & PAVEMENT PRIOR TO CONSTRUCTION.
10. EXISTING CURB TO BE REMOVED
11. CONSTRUCT 10' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "B" SHEET DT3.
12. CONSTRUCT 5' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET DT3.
13. CONSTRUCT SIDEWALK UNDERDRAIN PER USDCCA NO. 236.
14. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
15. CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER DETAIL "M" SHEET DT3.
16. EX. SEWER MANHOLE ADJUST TO GRADE.

EARTHWORKS

CUT-RAW	FILL-RAW
270,570 CY	181,050 CY

BASIS OF BEARING:

NORTH 05'36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

DRAINAGE STUDY COMPLIANCE

I CERTIFY THAT THIS GRADING PLAN ARE CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS5023A ON THE FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT

GIA D. NGUYEN, P.E.
NEVADA PE #14918

12/06/18
DATE

STORMWATER MANAGEMENT NOTES

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 CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY, REFER TO THE NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR 100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORM WATER 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. THE GEOTECHNICAL EXPLORATION PROPOSED RESIDENTIAL DEVELOPMENT SUMMERLIN VILLAGE 24 WEST OF CLARK COUNTY 215 BETWEEN CHARLESTON BOULEVARD AND SUMMERLIN PKWY LAS VEGAS, NEVADA AS PREPARED BY NOVA GEOTECHNICAL & INSPECTION SERVICES, PROJECT NUMBER G-18-066, DATED MAY 17, 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 CALCS 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 ZONE.
5. ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENT, PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.

NOTES 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.

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA D. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL

REV	DATE	DESCRIPTION	AGEN APP	DATE	CLV APP	DATE
2	07/03/19	REV. CONSTRUCTION NOTES	GDN	10-3-19	GDN	12/06/18

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 01-08-19
PLOT TIME: 13:02:53

GCV ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146
T: 702.804.2000 F: 702.804.2299
gcvengineering.com
F:\Projects\500\5523-A063\GWG\Production\A063-G2.dwg
QuangVinh Nguyen

PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

GRADING PLAN 1

DRAWING G1
4 OF 54 SHTS

RICHMOND AMERICAN HOMES OF NEVADA SCOTS PINE PHASE 2 APN: 137-33-710-001

RICHMOND AMERICAN HOMES OF NEVADA SCOTS PINE PHASE 1 APN: 137-33-710-001

PHASE 2 / PHASE 1

LACELEAF ST (PRIVATE)

LILAC TRAIL AVE (PRIVATE)

KEYLAND ST (PRIVATE)

KEYLAND ST

KEYLAND WAY

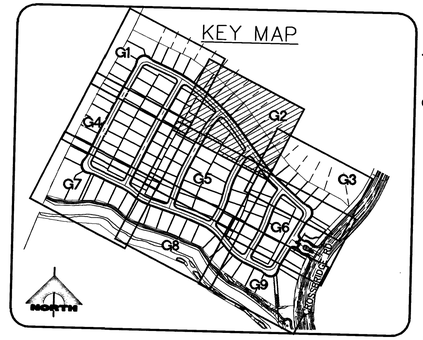
39.00' PRIVATE STREET

MATCH LINE SEE SHEET G1

MATCH LINE SEE SHEET G3

MATCH LINE SEE SHEET G5

KEY MAP



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3. CONSTRUCT TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.1.
4. CONSTRUCT 60" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1
6. CONSTRUCT 48" TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.2

EARTHWORKS

CUT-RAW	FILL-RAW
270,570 CY	181,050 CY

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

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989.574 (METERS)

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DRAINAGE STUDY COMPLIANCE

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GIA D. NGUYEN, P.E.
NEVADA PE #14918

12/6/18
DATE

* FOR C905 SEE SHEET LAT FOR TRENCHING & BEDDING DETAILS.

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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA D. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL — PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
1	07/05/18	REV. CONSTRUCTION NOTES
	10-3-18	AGEN APP
	DATE	GCW APP
	DATE: 12/06/18	

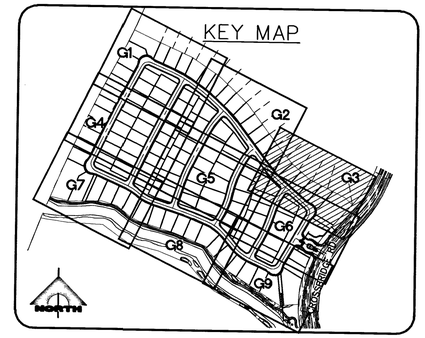
PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 01-08-19
PLOT TIME: 13:03:02

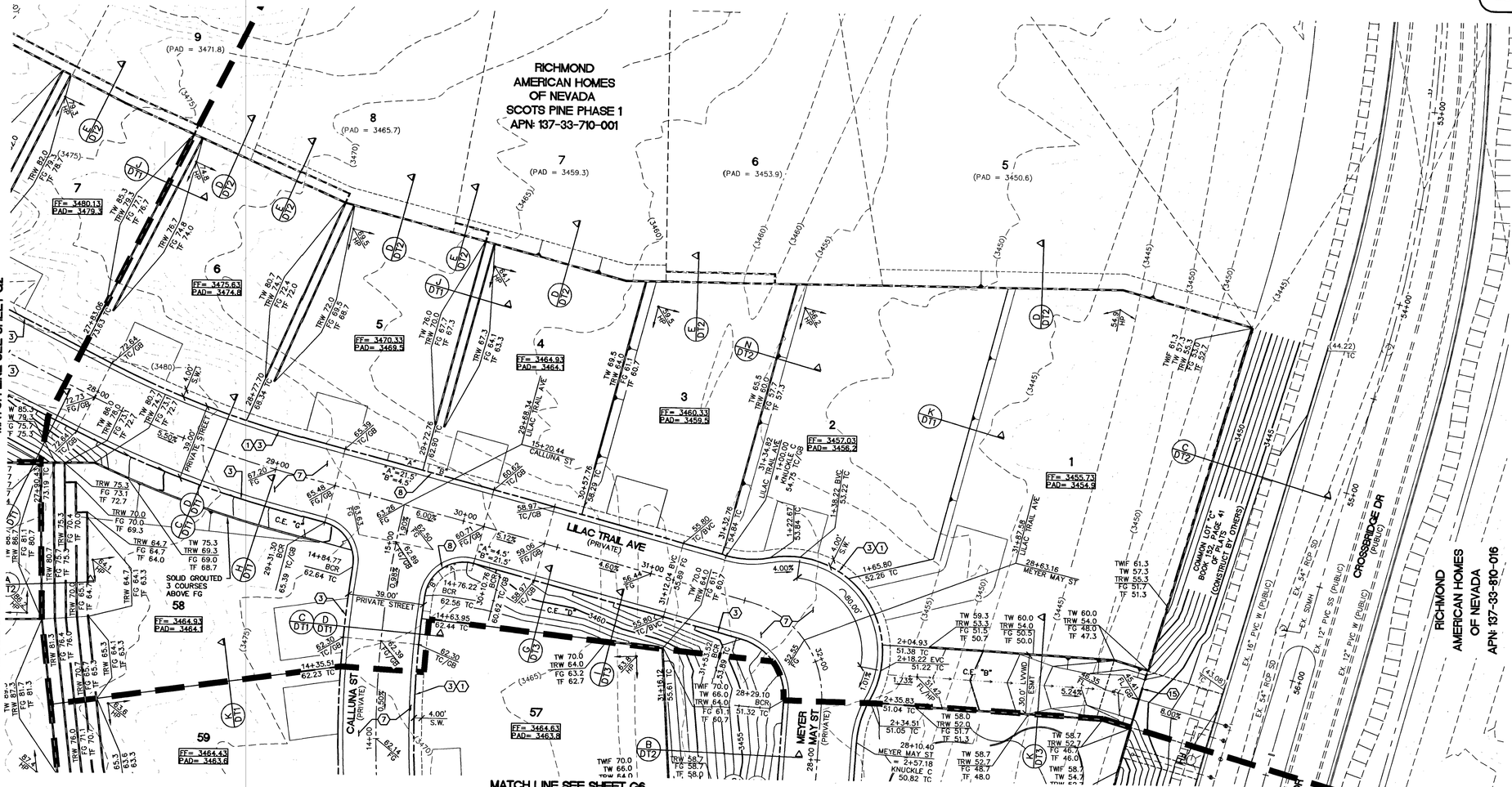
GCV ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146
T: 702.804.2000 F: 702.804.2299 gcwengineering.com

F:\Projects\500\5523-A063\DWG\Production\A063-GD.dwg
Donghin Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
GRADING PLAN 2

DRAWING G2
5 OF 54 SHTS





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7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
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STATE OF NEVADA PROFESSIONAL ENGINEER GIA DI NGUYEN Exp. 12/31/2019 CIVIL No. 14918

DATE: 12/06/18

REV	DATE	DESCRIPTION
1	07/03/19	REV. CONSTRUCTION NOTES
	LW 5.8 10-3-18	

	DATE	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 01-09-19
PLOT TIME: 10:06:34

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

F:\Projects\5001\5523-A063\DWG\Production\A063-G0.dwg
Quangvinh Nguyen

PARDEE HOMES

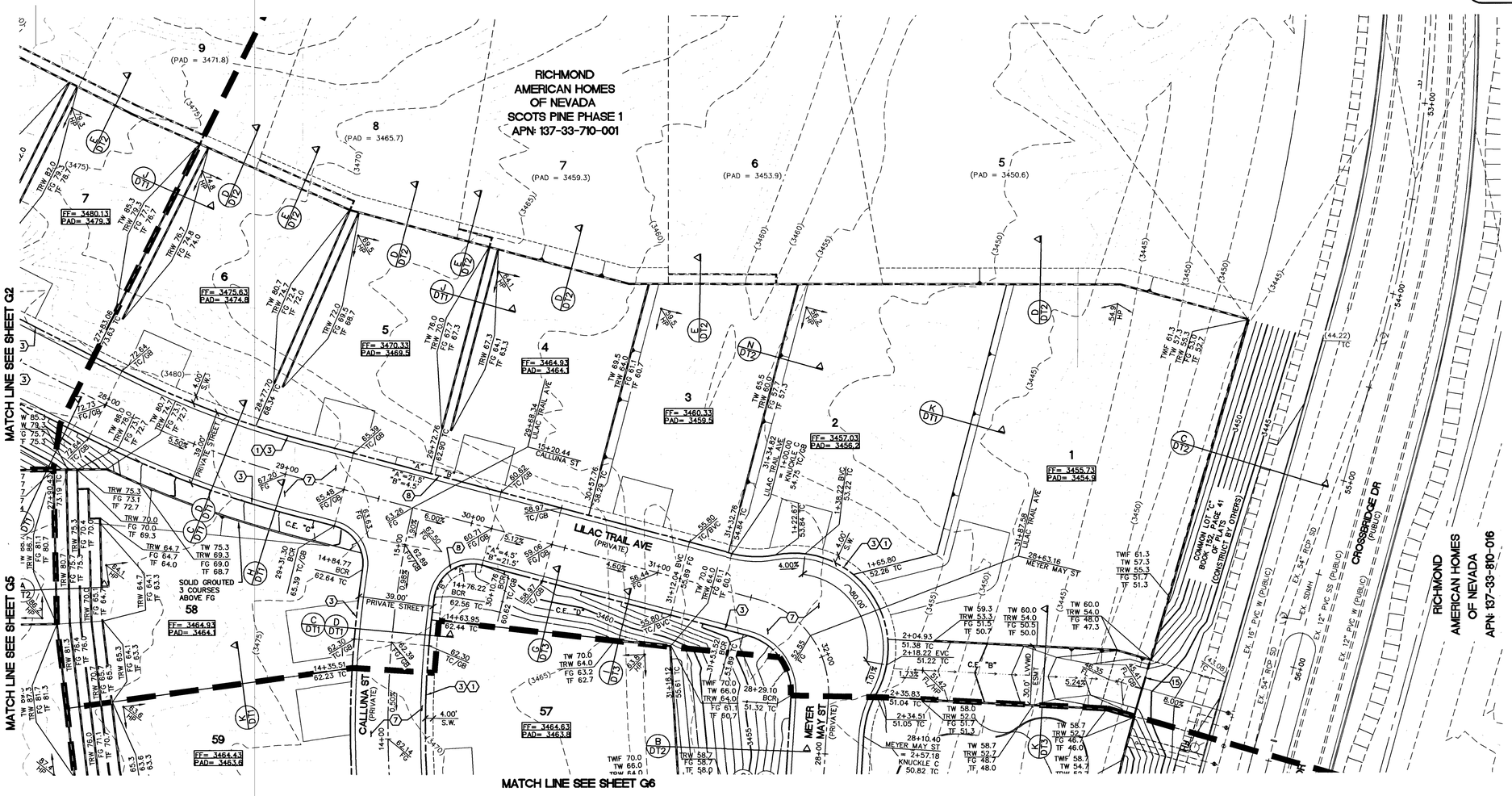
SUMMERLIN VILLAGE 24 - PARCEL I

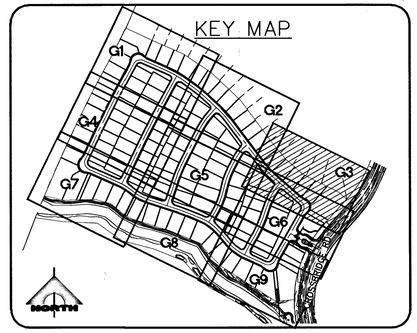
GRADING PLAN 3

L# 18-02530

CLV DWG# 107Y5092

DRAWING G3
6 OF 54 SHTS





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30' 0' 15' 30' 60'

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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA D. NGUYEN — No. 14918 — PROFESSIONAL ENGINEER — CIVIL — Exp. 12/31/2019 — DATE: 12/06/18

REV	DATE	DESCRIPTION
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	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 01-09-19
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GCW
ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
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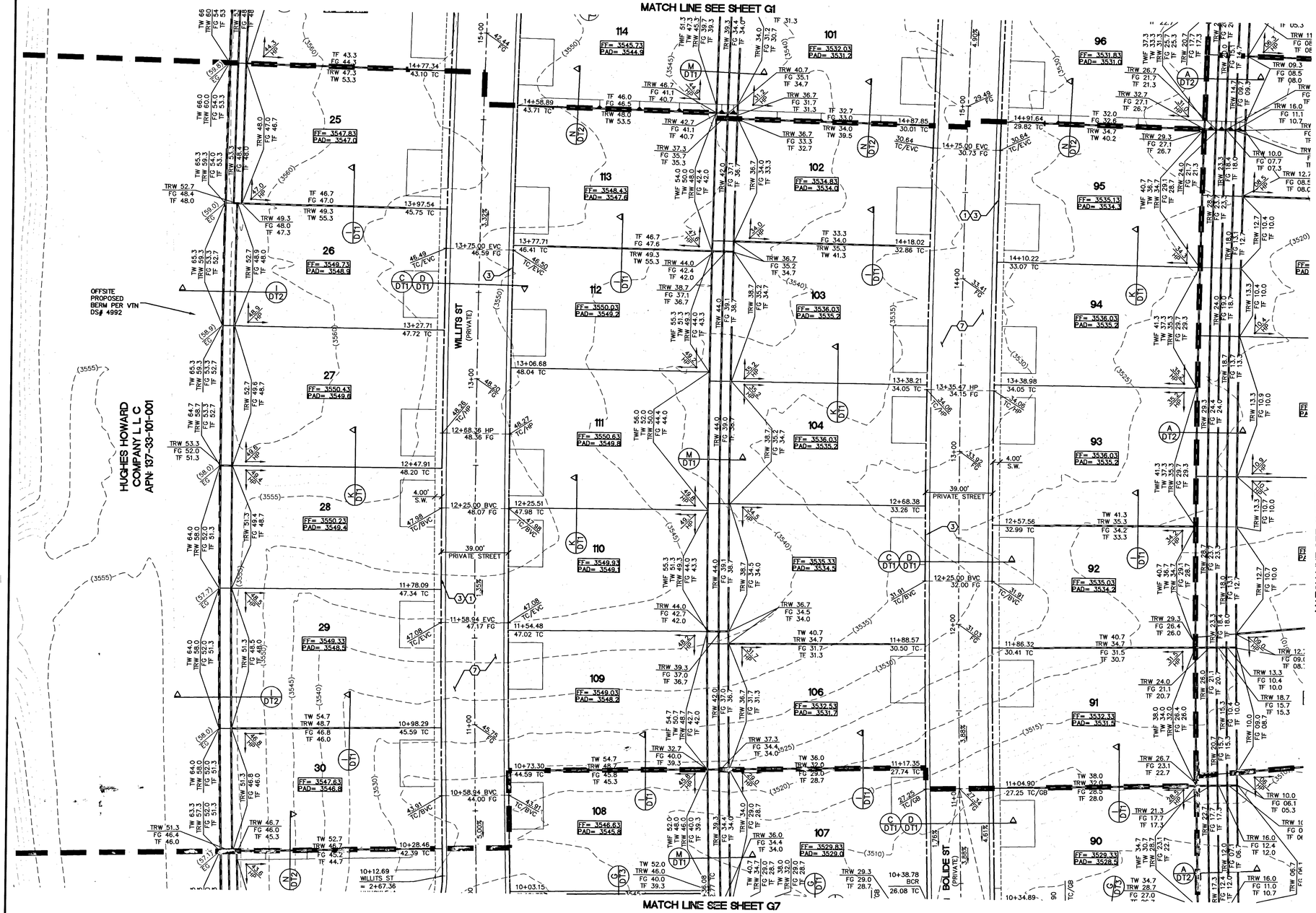
F:\Projects\500\5523-A063\DWG\Production\A063-GD.dwg
Quangvinh Nguyen

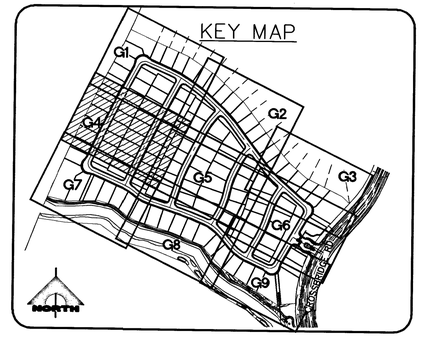
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

GRADING PLAN 3

DRAWING
G3
6 OF 54 SHTS





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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA D. NGUYEN — No. 14918 — PROFESSIONAL ENGINEER — 11/21/2019 — CIVIL

DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP
3	07/03/19	REV. CONSTRUCTION NOTES			
			10-3-19 CLV SS		

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 01-08-19
PLOT TIME: 13:03:22

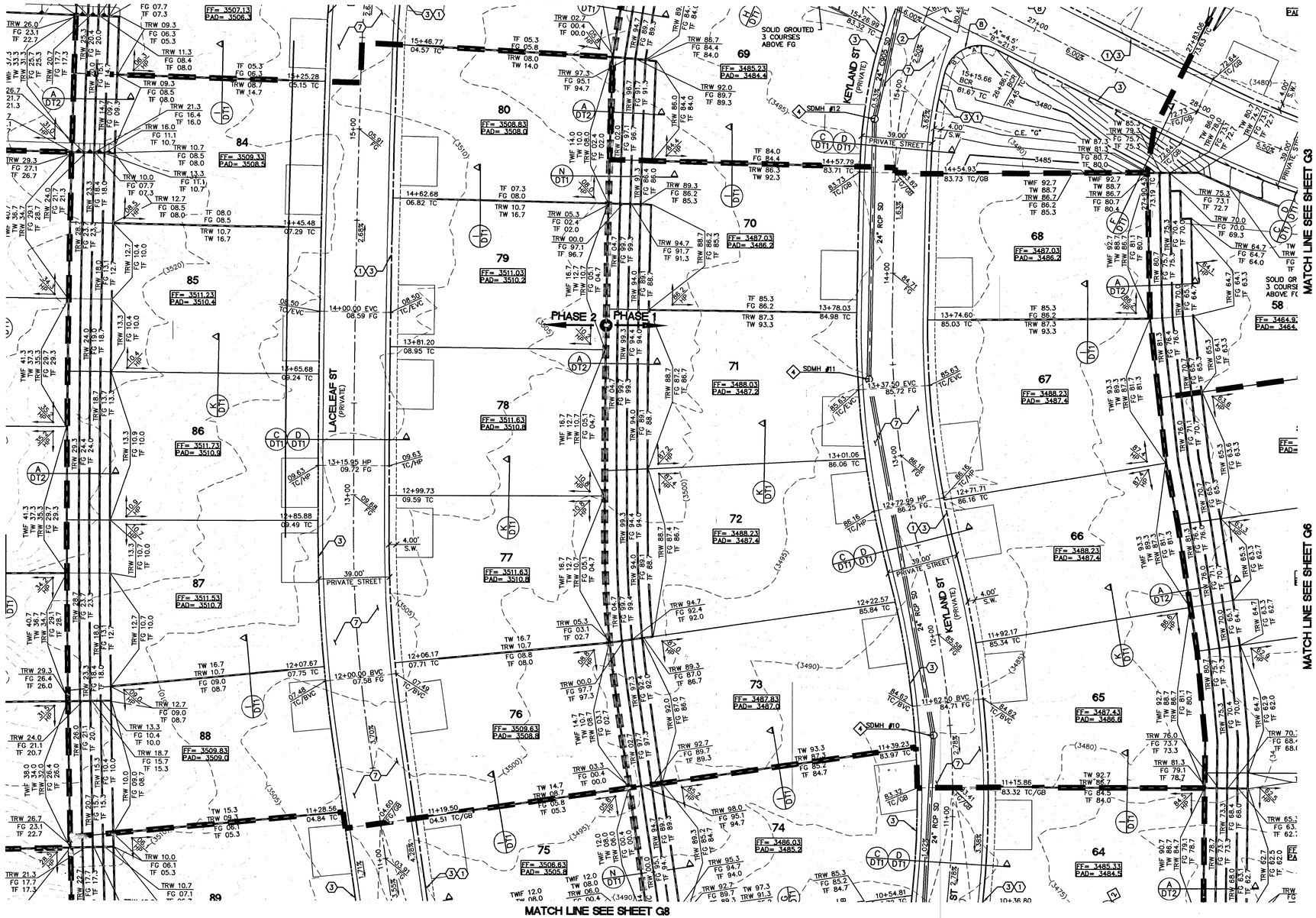
GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-GD.dwg
Quongvinh Nguyen

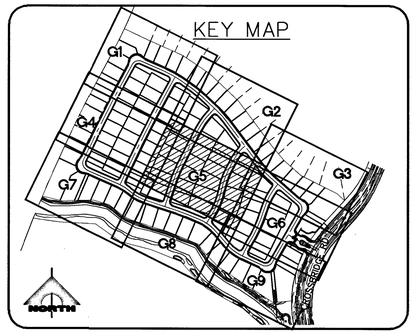
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

GRADING PLAN 4

DRAWING G4
7 OF 54 SHTS





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STATE OF NEVADA — GIA D. NGUYEN — No. 14918 — PROFESSIONAL ENGINEER — Exp. 10/31/2019 — CIVIL

DATE: 12/06/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP
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PROJECT NO. 5523-A063
DESIGN: ___ QN
DRAWN: ___ QN
CHECK: ___ GDN
PLOT DATE: 01-08-19
PLOT TIME: 13:03:33

GCW ENGINEERS \ SURVEYORS
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F:\Projects\5501\5523-A063\DWG\Production\A063-GD.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
GRADING PLAN 5

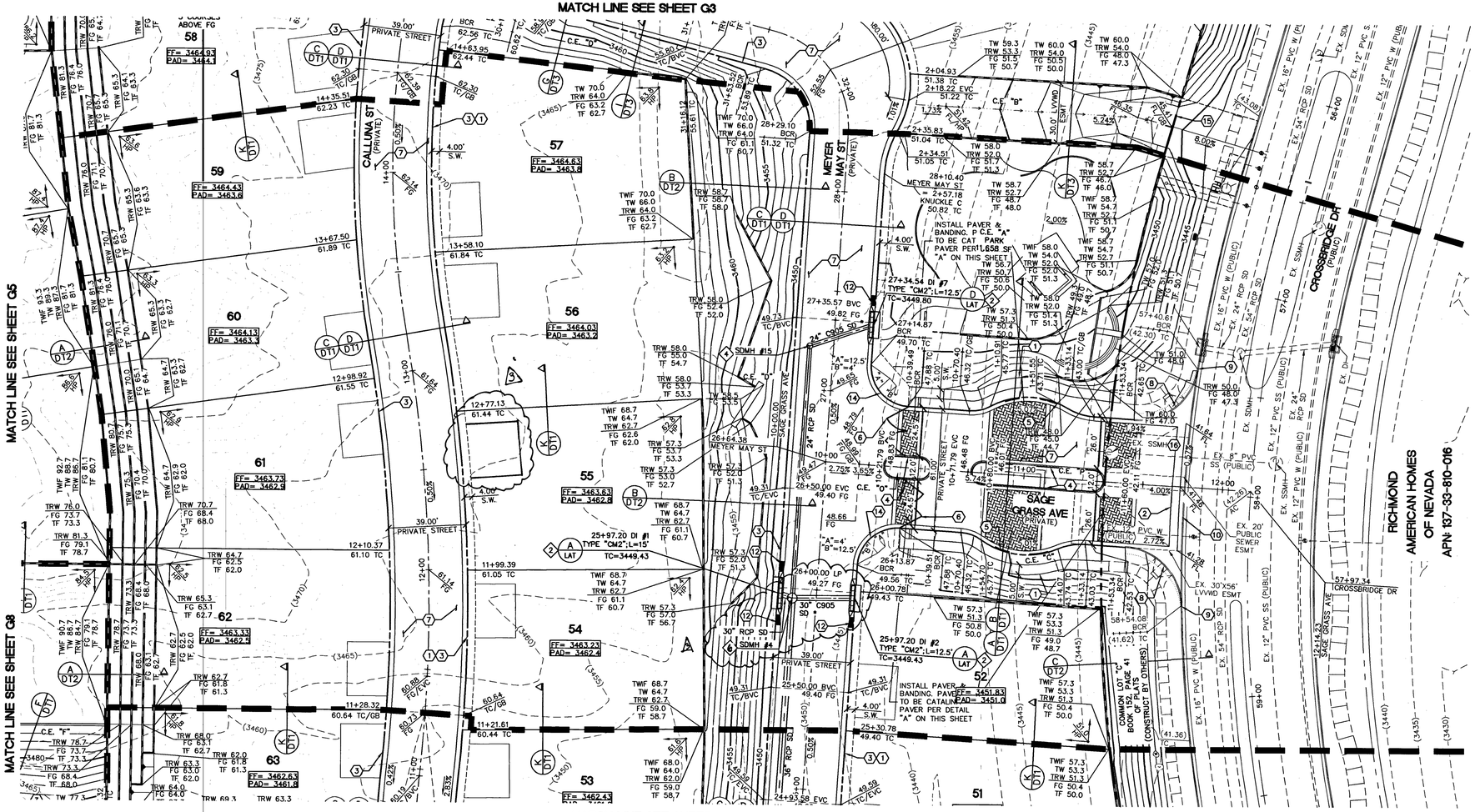
DRAWING G5
8 OF 54 SHTS

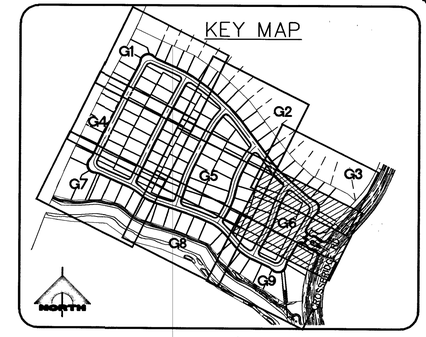
MATCH LINE SEE SHEET G3

MATCH LINE SEE SHEET G5

MATCH LINE SEE SHEET G8

MATCH LINE SEE SHEET G9





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-418.
2. CONSTRUCT 8' WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
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4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
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CUT-RAW	FILL-RAW
270,570 CY	181,050 CY

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BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, US.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

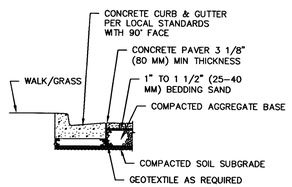
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

DRAINAGE STUDY COMPLIANCE

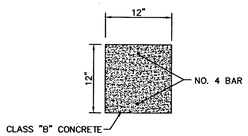
I CERTIFY THAT THIS GRADING PLAN ARE CONFORMANCE WITH THE APPROVED DRAINAGE STUDY DS5023A ON THE FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT

GIA D. NGUYEN, P.E.
NEVADA PE #14918

12/06/18
DATE



CONCRETE PAVER



12" BANDING

CONCRETE PAVER AND BANDING

SCALE: NTS (SHEETS G1, G2, G6, G8) (A)

* FOR C905 SEE SHEET LAT FOR TRENCHING & BEDDING DETAILS.

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L# 18-02530 | CLV DWG# 107Y5092

DRAWING G6 9 OF 54 SHTS

PARDEE HOMES
SUMMERLIN VILLAGE 24 – PARCEL I
GRADING PLAN 6

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

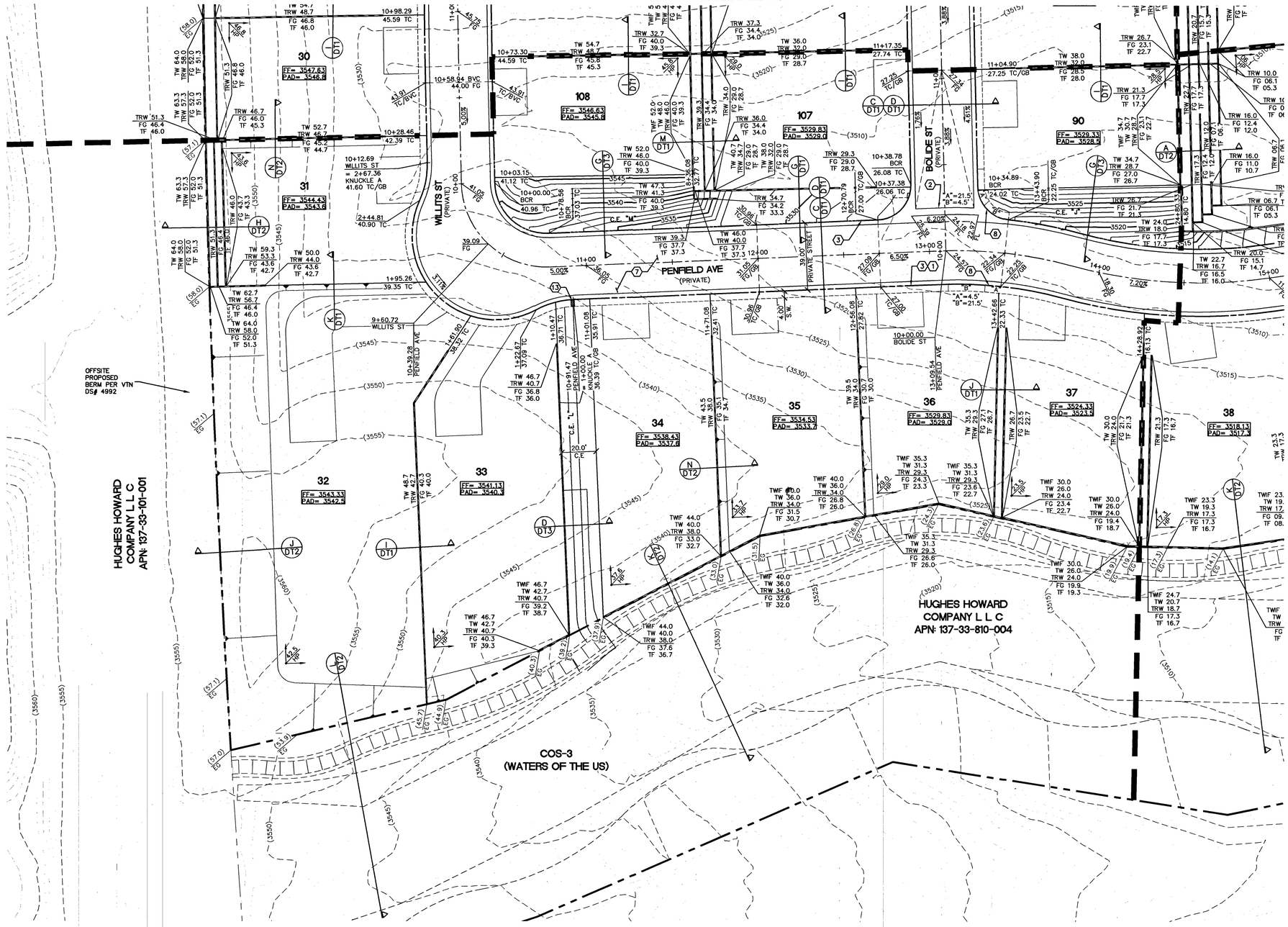
PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 01-09-19
PLOT TIME: 10:07:09

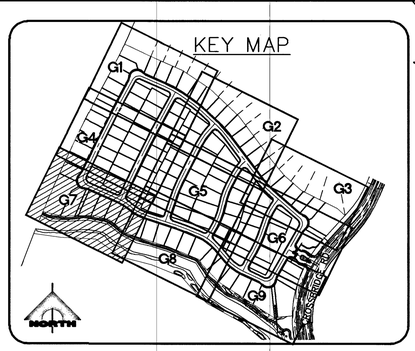
REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCV APP
3	07/05/18	REV. SDMH NOTE & CNL REV. DWY LOCATION	10-15-18	[illegible]		

F:\Projects\500\5523-A063\DWG\Production\A063-G0.dwg
Quangvinh Nguyen

RICHMOND AMERICAN HOMES OF NEVADA
APN: 137-33-810-016

DATE: 12/06/18





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GIA D. NGUYEN, P.E.
NEVADA PE #14918

12/06/18
DATE

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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA D. NGUYEN — No. 14918 — PROFESSIONAL ENGINEER — Exp. 12/31/2019 — CIVIL

DATE: 12/06/18

REV	DATE	DESCRIPTION
2	07/03/19	REV. CONSTRUCTION NOTES
1	03.13.19	CLV SS
	DATE	AGENY APP
	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 01-08-19
PLOT TIME: 13:03:52

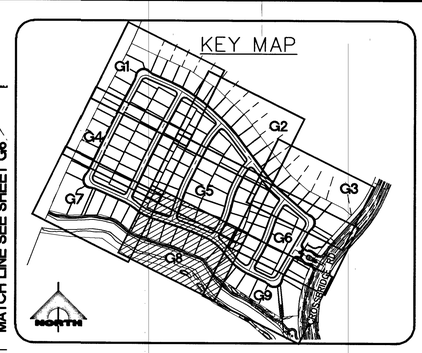
GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-GD.dwg
Quangvinh Nguyen

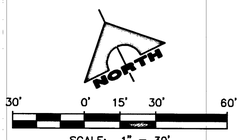
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

GRADING PLAN 7

DRAWING G7
10 OF 54 SHTS





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GIA D. NGUYEN, P.E.
NEVADA PE #14818

12/20/18
DATE

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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA D. NGUYEN — No. 14818 — 12/31/2019 — CIVIL — ENGINEER

DATE: 12/06/18

REV	DATE	DESCRIPTION	DATE	APP
4	10.3.19	CNV 58		
3	07/03/19	REV. CONSTRUCTION NOTES		GCW

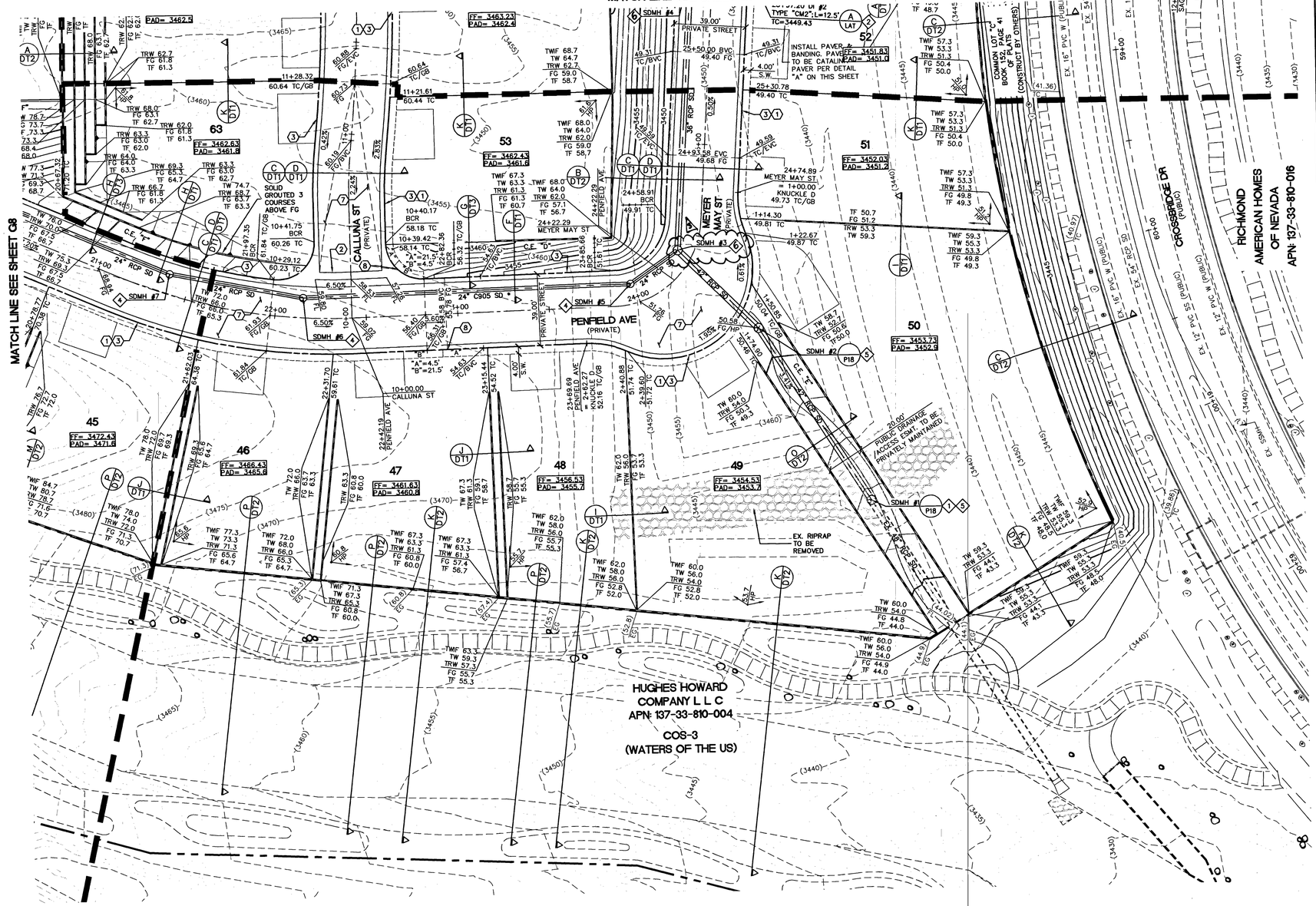
PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 01-08-19
PLOT TIME: 13:04:02

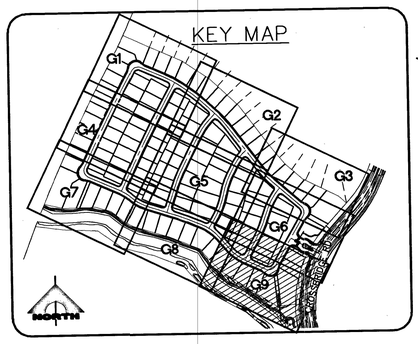
GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\500\5523-A063\DWG\Production\A063-G0.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
GRADING PLAN 8

DRAWING G8
11 OF 54 SHTS





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30' 0' 15' 30' 60'

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NEVADA PE #14918

12/04/18
DATE

L# 18-02530 | CLV DWG# 107Y5092

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STATE OF NEVADA — GIA D. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL — PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
1	07/05/19	REV. CONSTRUCTION NOTES

DATE: 12/06/18 | DESIGN: GN | DRAWN: GN | CHECK: GDN | PLOT DATE: 01-09-19 | PLOT TIME: 10:09:20 | GCV APP | DATE | AGEN APP | DATE

PROJECT NO. 5523-A063

GCV ENGINEERS \ SURVEYORS
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F: 702.804.2299
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F:\Projects\500\5523-A063\DWG\Production\A063-G0.dwg
Quangvinh Nguyen

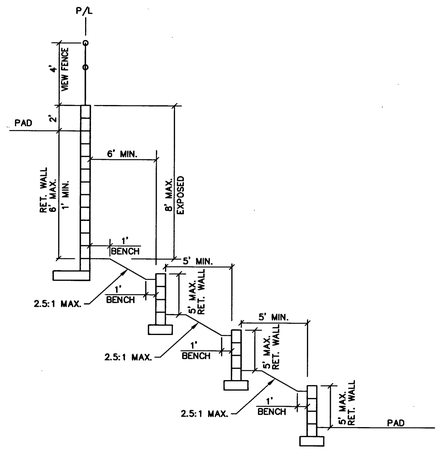
PARDEE HOMES

SUMMERLIN VILLAGE 24 – PARCEL I

GRADING PLAN 9

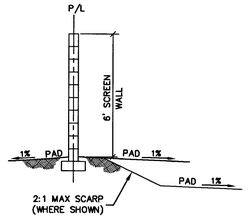
DRAWING G9

12 OF 54 SHTS



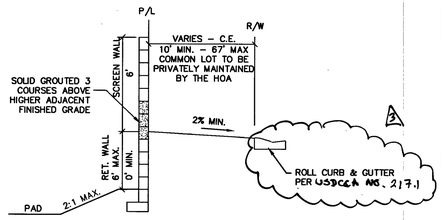
TYPICAL SECTION (N)

SCALE: NTS (SHEETS G1-G6)



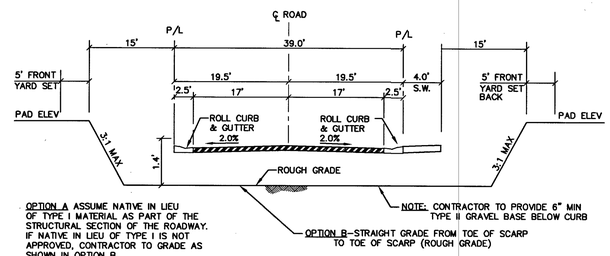
TYPICAL SECTION (K)

SCALE: NTS (SHEETS G1 THRU G9)



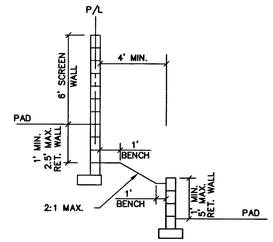
TYPICAL SECTION (H)

SCALE: NTS (SHEETS G2-G3, G8-G9)



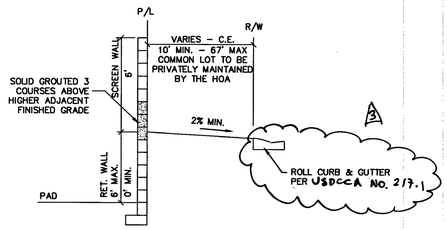
TYPICAL ROUGH GRADING SECTION (D)

SCALE: NTS (SHEETS G1 THRU G9)



TYPICAL SECTION (SIDE YARD) (J)

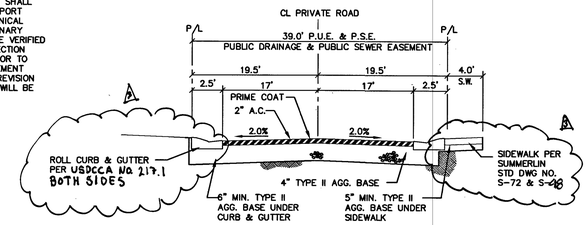
SCALE: NTS (SHEETS G1 THRU G9)



TYPICAL SECTION (G)

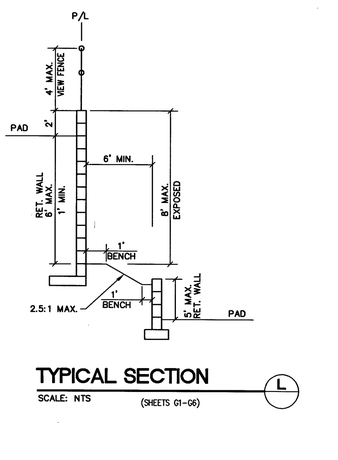
SCALE: NTS (SHEETS G1, G7 & G8)

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER SOILS REPORT PREPARED BY NOVA GEOTECHNICAL PROJECT #G-18-066. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



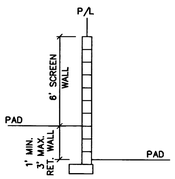
39' PRIVATE STREET SECTION (C)

SCALE: NTS (SHEETS G1 THRU G9)



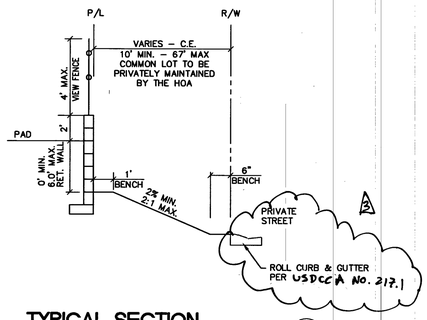
TYPICAL SECTION (M)

SCALE: NTS (SHEETS G1-G6)



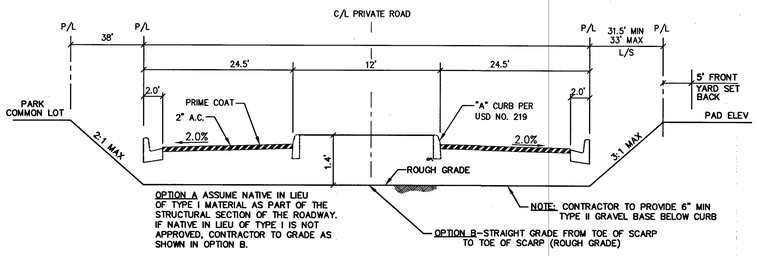
TYPICAL SECTION (SIDE YARD) (I)

SCALE: NTS (SHEETS G1 THRU G9)



TYPICAL SECTION (F)

SCALE: NTS (SHEETS G1-G2, G5, G8-G9)

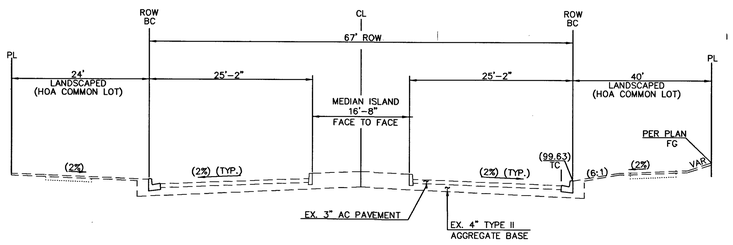


TYPICAL ROUGH GRADING SECTION (B)

SCALE: NTS (SHEETS G6)

TYPICAL SECTION (L)

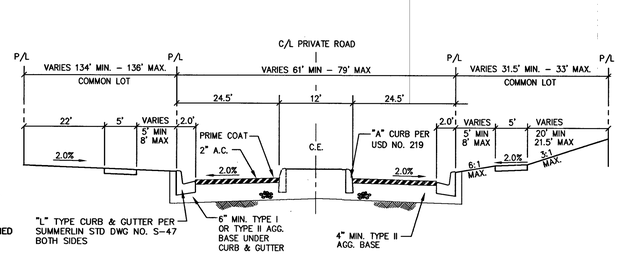
SCALE: NTS (SHEETS G1-G6)



CROSSBRIDGE ROAD (PUBLIC) (E)

SCALE: NTS (SHEETS G3, G6 & G9)

NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER SOILS REPORT PREPARED BY NOVA GEOTECHNICAL PROJECT #G-18-066. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



61' PRIVATE ENTRY (A)

SCALE: NTS (SHEETS G6)

L# 18-02530 | CLV DWG# 107Y5092

GCV ENGINEERS \ SURVEYORS
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LAS VEGAS, NV 89146
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gcvengineering.com

F:\Projects\500\5523-A063\GWG\Production\A063-DT.dwg
Quangvinh Nguyen

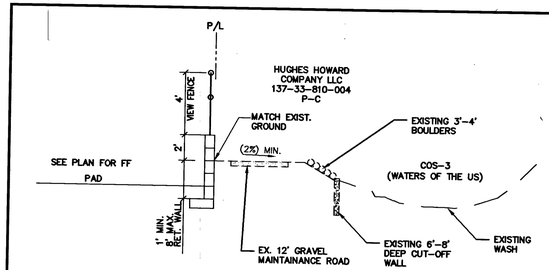
PROJECT NO. 5523-A063
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 01-08-19
PLOT TIME: 11:09:35

REV	DATE	DESCRIPTION	AGEN APP	DATE	CCW APP	DATE
2	12/27/18	REV. CONSTRUCTION NOTES	CJM SB	10-2-18		

DATE: 12/06/18

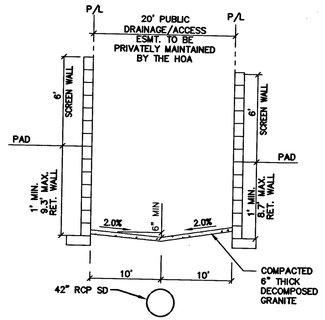
PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
GRADING SECTIONS AND DETAILS 1

DRAWING
DT1
13 OF 54 SHTS



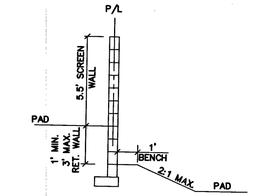
TYPICAL SECTION (P)

SCALE: NTS (SHEETS G7 THRU G9)



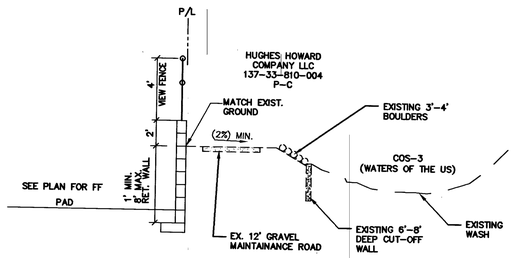
20' DRAINAGE ESMT. (O)

SCALE: NTS (SHEETS G9)



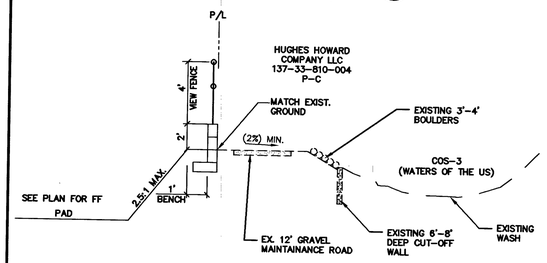
TYPICAL SECTION (SIDE YARD) (N)

SCALE: NTS (SHEETS G1 THRU G9)



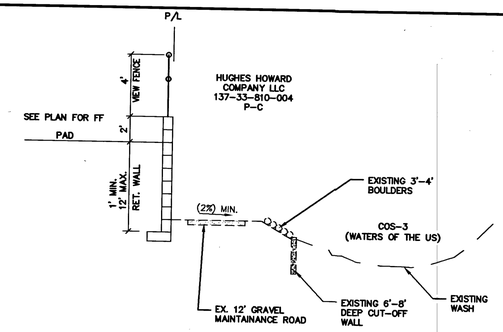
TYPICAL SECTION (M)

SCALE: NTS (SHEETS G7 THRU G9)



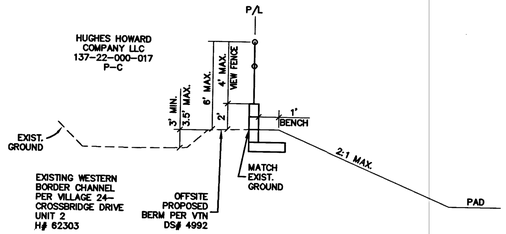
TYPICAL SECTION (L)

SCALE: NTS (SHEETS G7 THRU G9)



TYPICAL SECTION (K)

SCALE: NTS (SHEETS G7 THRU G9)

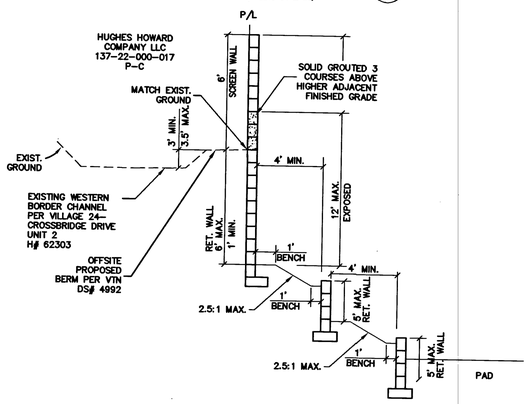


TYPICAL SECTION (J)

SCALE: NTS (SHEETS G7)

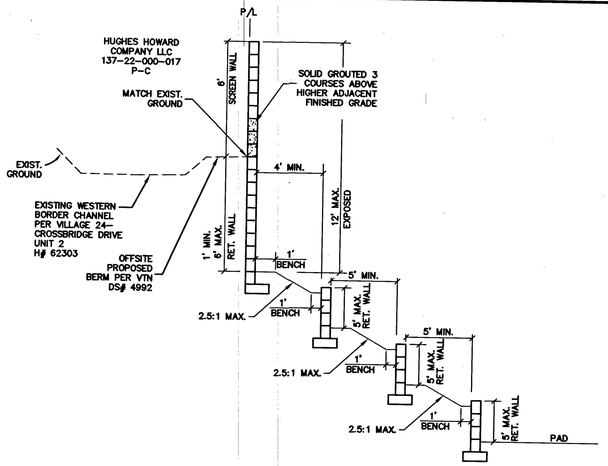
TYPICAL SECTION (I)

SCALE: NTS (SHEETS G4 & G7)



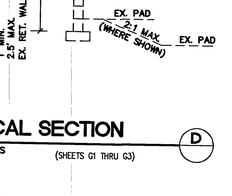
TYPICAL SECTION (H)

SCALE: NTS (SHEETS G1)



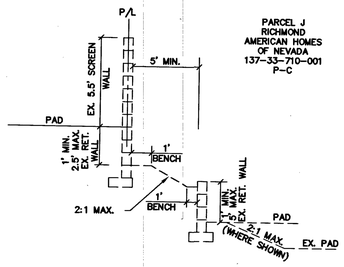
TYPICAL SECTION (Q)

SCALE: NTS (SHEETS G1)



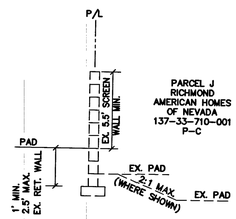
TYPICAL SECTION (F)

SCALE: NTS (SHEETS G1 THRU G3)



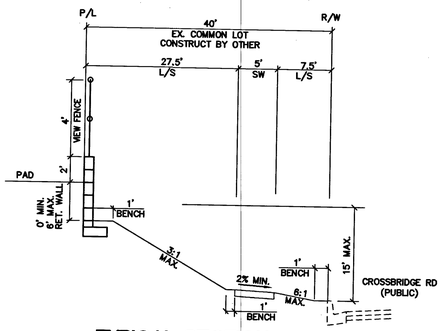
TYPICAL SECTION (E)

SCALE: NTS (SHEETS G1 THRU G3)



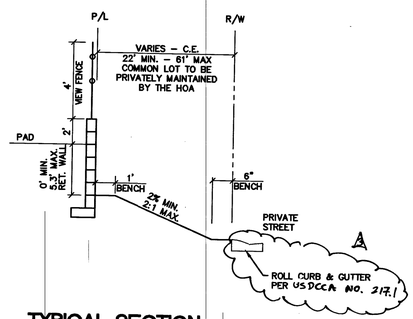
TYPICAL SECTION (D)

SCALE: NTS (SHEETS G1 THRU G3)



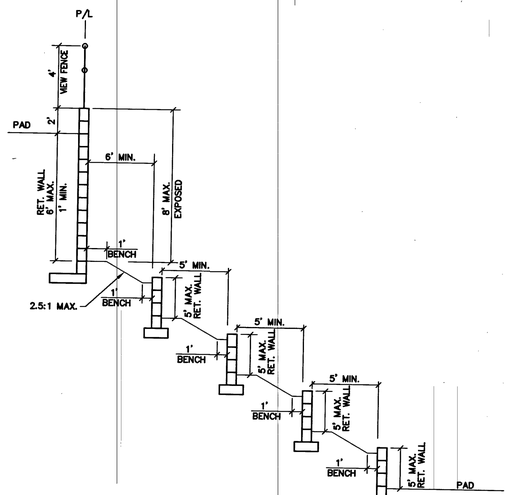
TYPICAL SECTION (C)

SCALE: NTS (SHEETS G3, G6 & G9)



TYPICAL SECTION (B)

SCALE: NTS (SHEETS G3, G6 & G9)



TYPICAL SECTION (A)

SCALE: NTS (SHEETS G1-G6)

GCW, INC.
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LAS VEGAS, NV 89146
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gcwengineering.com

PROJECT NO. 5523-A063

DESIGN:
DRAWN:
CHECK:

PLOT DATE: 01-08-19
PLOT TIME: 13:39:35

F:\Projects\5523-A063\DWG\Production\A063-DT.dwg
Quangvinh Nguyen

REV	DATE	DESCRIPTION
1	07/03/19	REV. CONSTRUCTION NOTES
	12/31/18	FOR PERMIT

DATE 12/06/18

GCW APP
DATE
AGEN APP
DATE

STATE OF NEVADA — PROFESSIONAL ENGINEER — No. 14915 — QUANG VINH NGUYEN — Date: 12/31/2018 — CIVIL

PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

GRADING SECTIONS AND DETAILS 2

L# 18-02530

CLV DWG# 107Y5092

DRAWING DT2

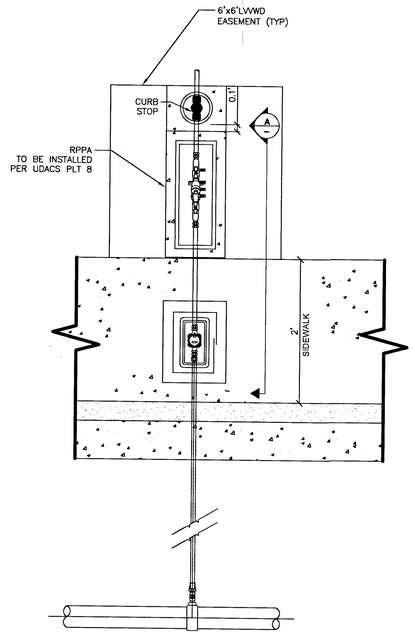
14 OF 54 SHTS

APPROVED FOR CONSTRUCTION

Deanne Olson

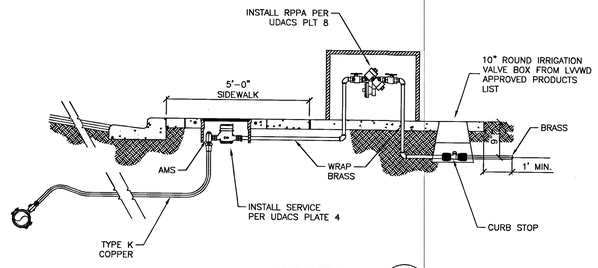
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

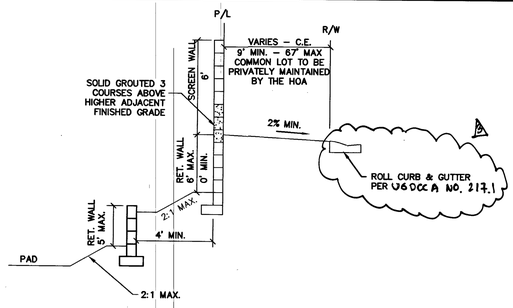


METER W/ RPPA PER UDACS PLATE NO. 4 AND 8 WITH CURB STOP (L)

SCALE: NTS

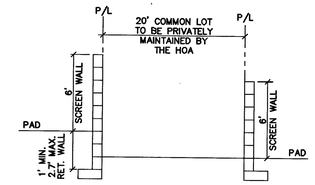


SECTION (A)



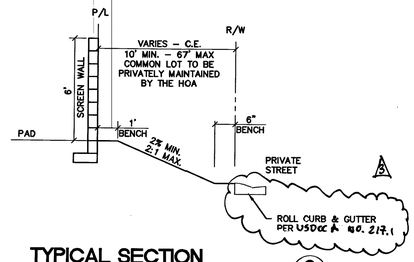
TYPICAL SECTION (H)

SCALE: NTS (SHEETS G1-G3, G7-G9)



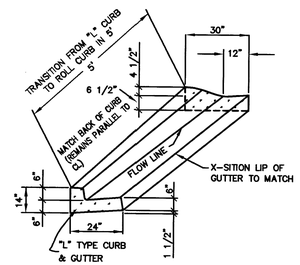
20' COMMON LOT (D)

SCALE: NTS (SHEETS G9)



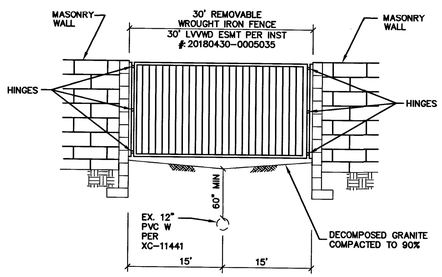
TYPICAL SECTION (G)

SCALE: NTS (SHEETS G1-G3, G7-G9)



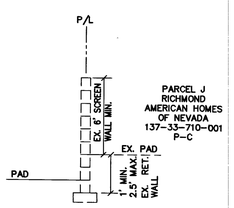
5' TRANSITION FROM "L" CURB TO ROLL CURB

SCALE: NTS (C)



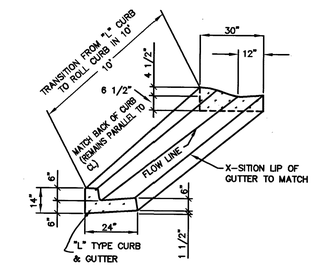
WROUGHT IRON FENCE (M)

SCALE: NTS



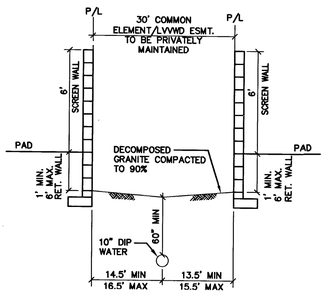
TYPICAL SECTION (J)

SCALE: NTS (SHEETS G1 THRU G3)



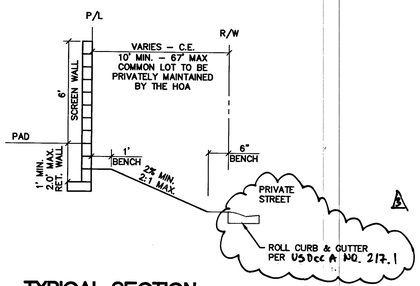
10' TRANSITION FROM "L" CURB TO ROLL CURB

SCALE: NTS (B)



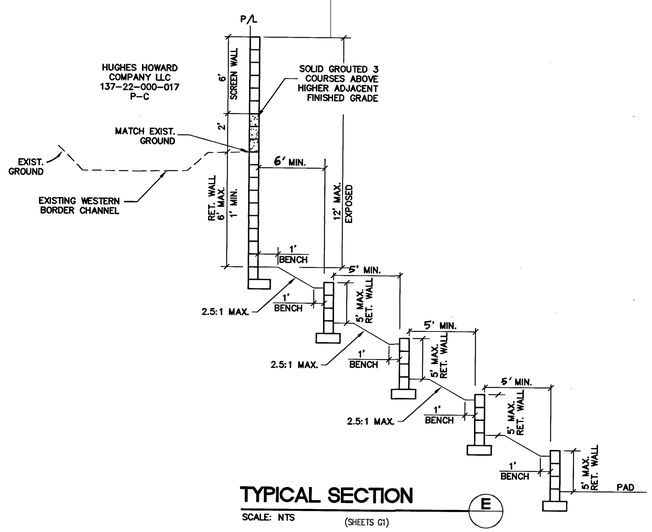
30' LVVWD ESMT.

SCALE: NTS (SHEETS G1) (K)



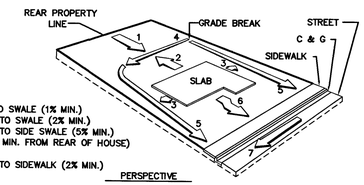
TYPICAL SECTION (I)

SCALE: NTS (SHEETS G1-G3, G7-G9)



TYPICAL SECTION (E)

SCALE: NTS (SHEETS G1)



NOTES:
1. SLOPE FROM REAR TO SWALE (1% MIN.)
2. SLOPE FROM HOUSE TO SWALE (2% MIN.)
3. SLOPE FROM HOUSE TO SIDE SWALE (5% MIN.)
4. REAR SWALE 1% (10' MIN. FROM REAR OF HOUSE)
5. SIDE SWALE 1%
6. SLOPE FROM HOUSE TO SIDEWALK (2% MIN.)
7. SLOPE OF STREET

PERSPECTIVE

F.H.A. TYPE "A" DRAINAGE

TYPICAL TYPE "A" DRAINAGE DETAIL (A)

SCALE: NTS

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — No. 14918 — GIA D. NGUYEN — Exp. 12/31/2019 — CIVIL

DATE: 12/06/18

REV#	DESCRIPTION	DATE	AGEN APP	DATE	CCW APP
2	07/03/19 REV. CONSTRUCTION NOTES				
1		1-7-19		1-7-19	

PROJECT NO. 5523-A063

DESIGN:
DRAWN:
CHECK:
PLOT DATE: 12-11-18
PLOT TIME: 16:36:32

GCW ENGINEERS \ SURVEYORS
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Quangvinh Nguyen

PARDEE HOMES

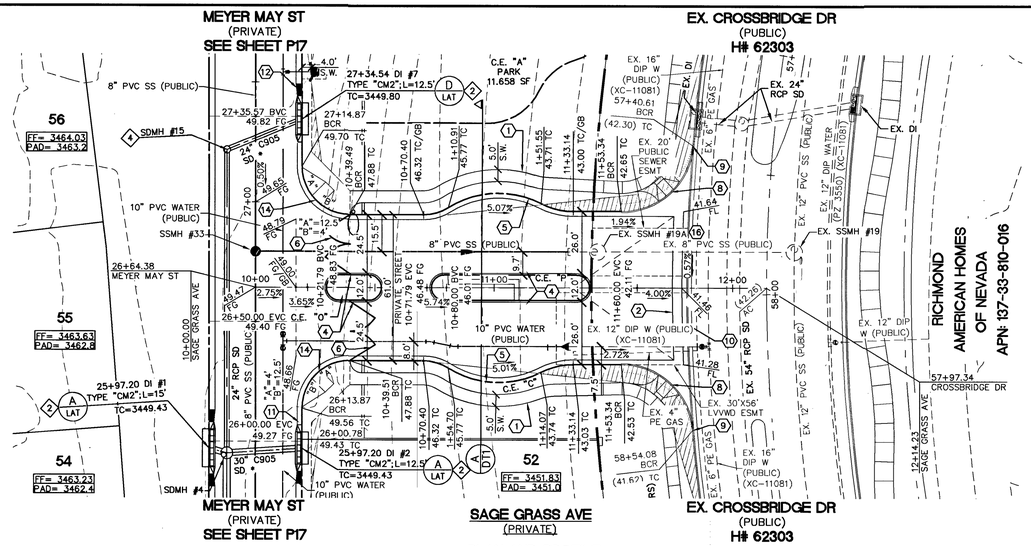
SUMMERLIN VILLAGE 24 - PARCEL I

GRADING SECTIONS AND DETAILS 3

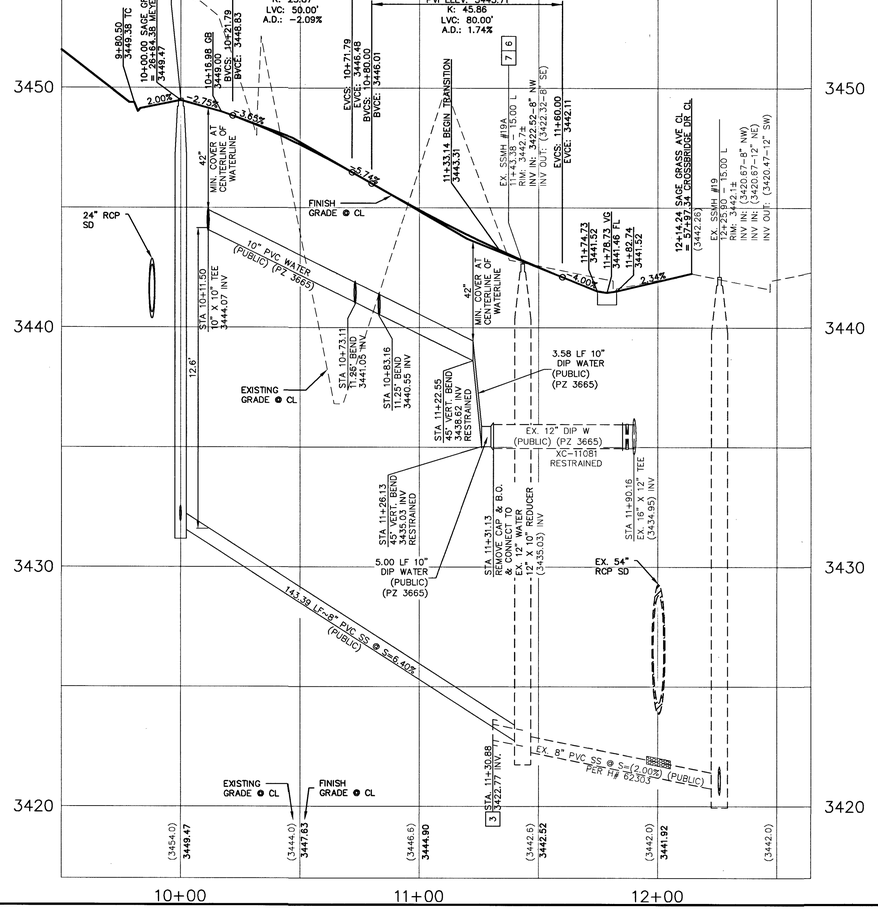
DRAWING DT3

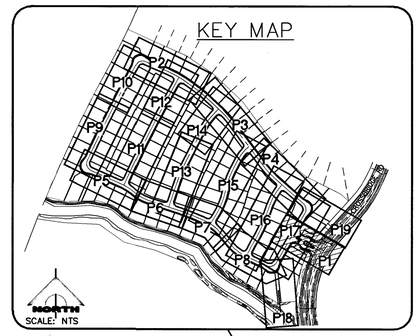
15 OF 54 SHTS

PROJ.#: 135633A QS: 137-33-SE



PLAN AND PROFILE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-18
2. CONSTRUCT 8' WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
3. CONSTRUCT ROLL CURB PER USDCCA NO. 217.1
4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
6. INSTALL GATE – SEE LANDSCAPE.
7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
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4. CONSTRUCT 60" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
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7. CONNECT TO EXISTING SEWER MANHOLE.

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

NOTE

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CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY
CALL BEFORE YOU DO OVERHEAD
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FAST
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1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

GIA D. NGUYEN
No. 14918
STATE OF NEVADA
PROFESSIONAL ENGINEER
DATE: 12/06/18

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

REV	DATE	DESCRIPTION
A	02/27/19	REV. CONSTRUCTION NOTES
	7-1-19	ADD CIVIL
	DATE	AGEN APP
	10-3-19	CLV '56
	DATE	GCV APP

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:08:24

F:\Projects\500\5523-A063\DWG\Production\A063-P1-B.dwg
Quangvinh Nguyen

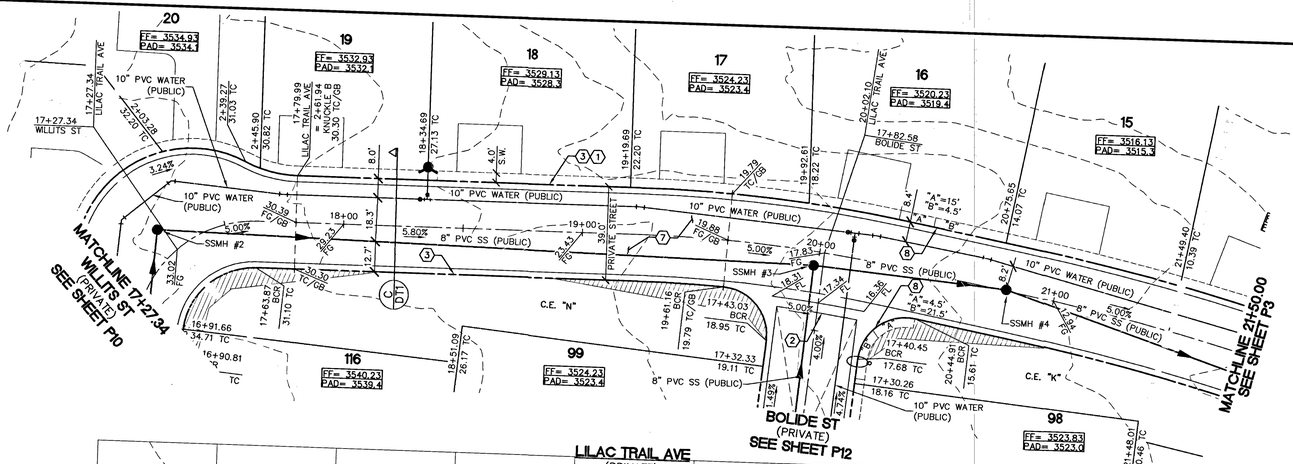
PARDEE HOMES

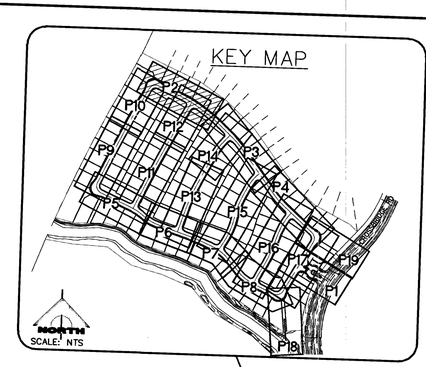
SUMMERLIN VILLAGE 24 - PARCEL I

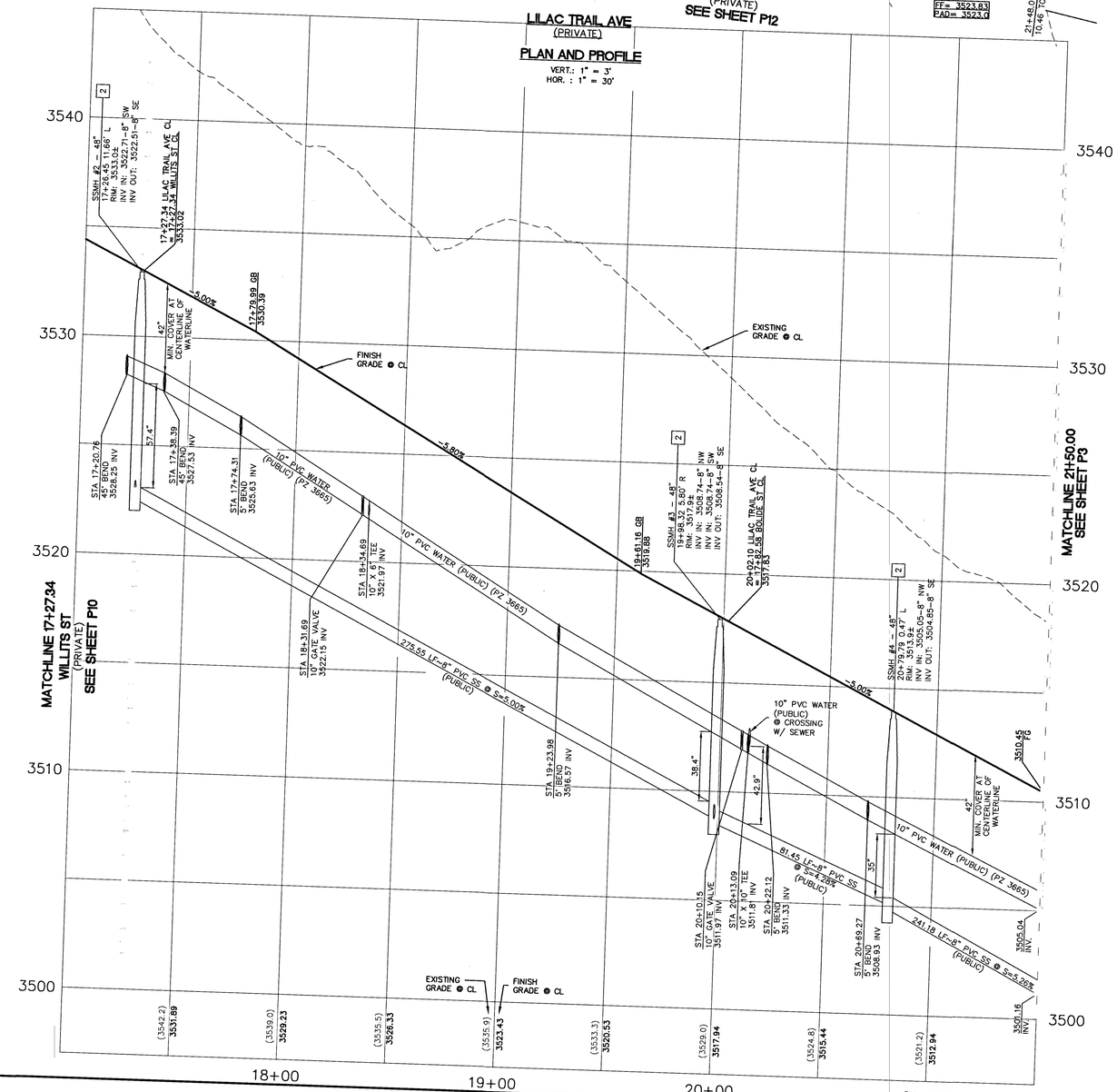
SAGE GRASS AVE
STA. 10+00.00 TO STA. 12+14.24
PLAN AND PROFILE

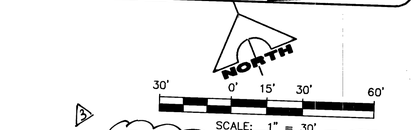
DRAWING
P1
16 OF 54 SHTS

PROJ.#:135633A QS:137.33-SE









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PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

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T: 702.804.2000
F: 702.804.2299
gcvengineering.com

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12-05-18
PLOT TIME: 09:08:43
F:\Projects\500\5523-A063\DWG\Production\A063-P1-8.dwg
Quangvinh Nguyen

REV	DATE	DESCRIPTION
A	02/27/19	REV'D. CONSTRUCTION NOTES

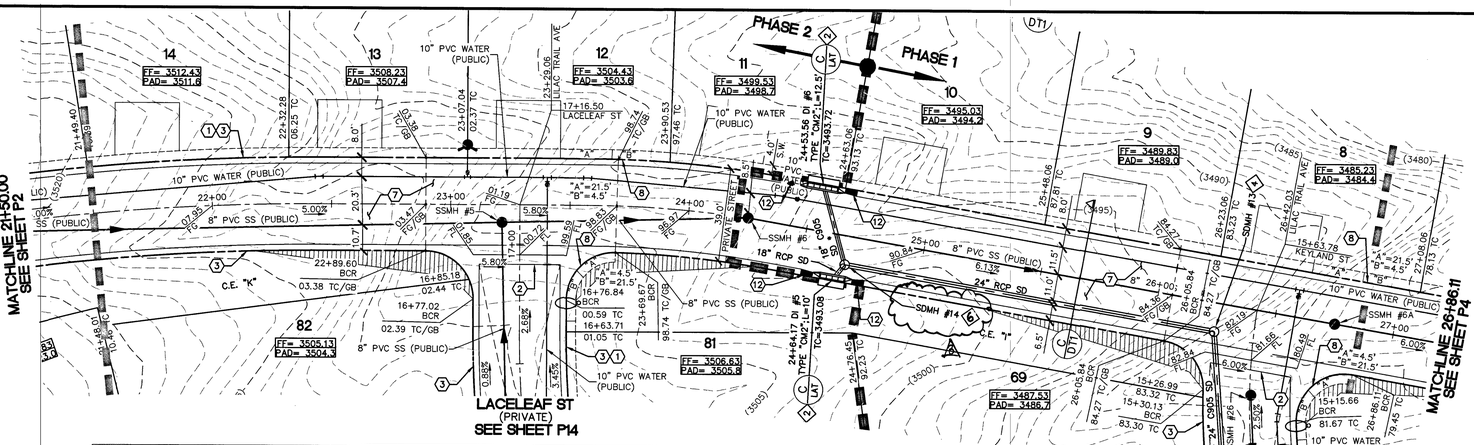
STATE OF NEVADA — PROFESSIONAL ENGINEER — QUANG V. NGUYEN — No. 14951 — Exp. 12/31/2019 — CIVIL
DATE: 12/06/18

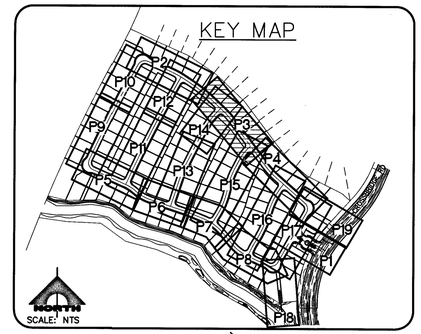
	DATE	AGEN APP	DATE	CLV APP
			12-19-18	CLV
	12-7-18	M.F. Group		

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
LILAC TRAIL AVE
STA. 17+27.34 TO STA. 21+50.00
PLAN AND PROFILE

DRAWING
P2
17 OF 54 SHTS

PRO.#:135633A QS:137.33-SE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

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 (WINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.

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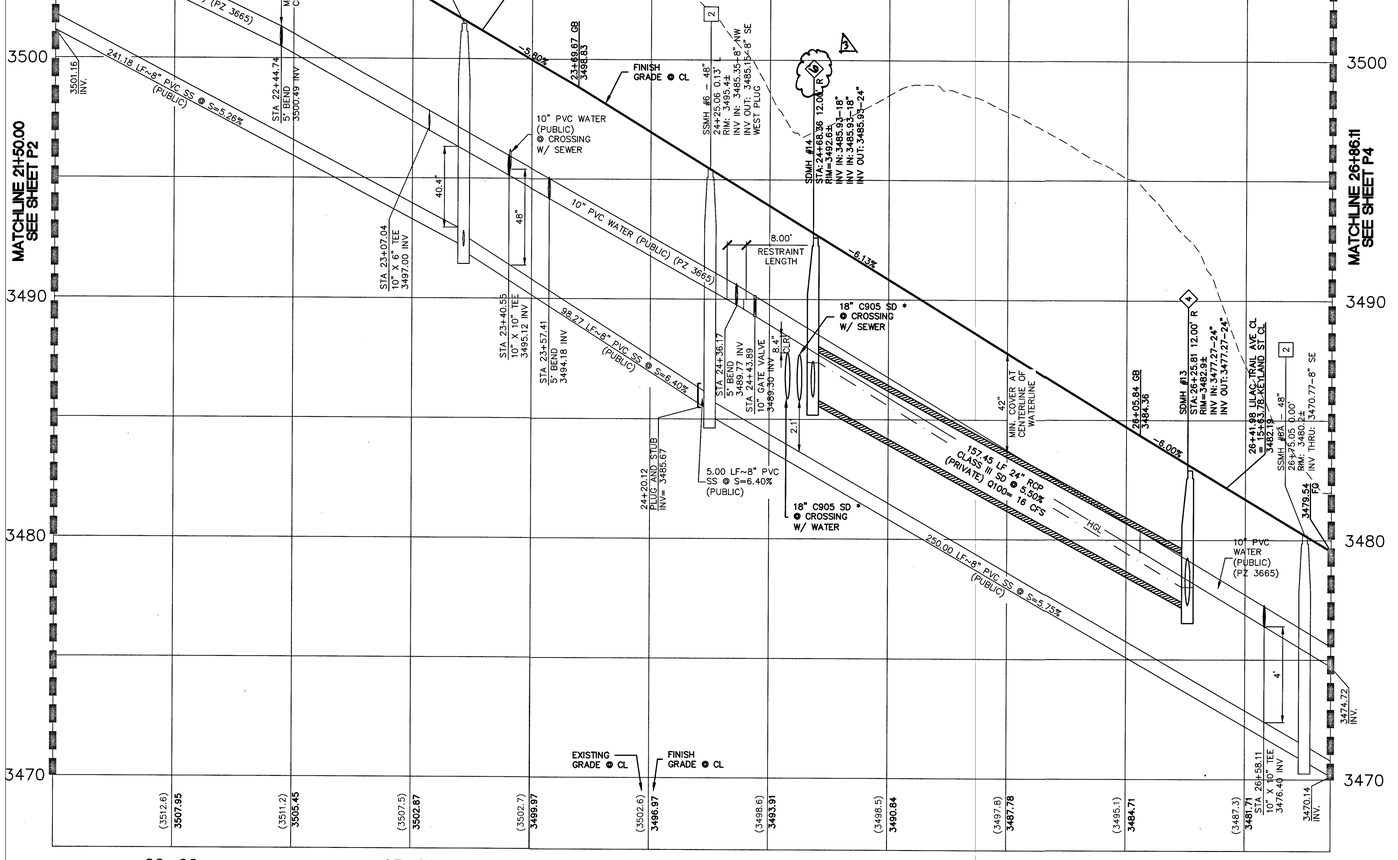

* FOR C905 SEE SHEET LAT FOR TRENCHING & BEDDING DETAILS.

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PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 14917 — JOSEPH A. NGUYEN — Exp. 12/31/2019 — DATE: 12/20/18

REV	DATE	DESCRIPTION
A	12/27/18	REV. CONSTRUCTION NOTES
	12-13-18	CLV SS
	12-13-18	GOV APP
	11-7-18	CLV DWG#
		AGEN APP
		DATE

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: QDN
PLOT DATE: 12-06-18
PLOT TIME: 10:34:57

GCV ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com
F:\Projects\5500\5523-A063\DWG\Production\A063-P1-8.dwg
Luky Rocana Lopez

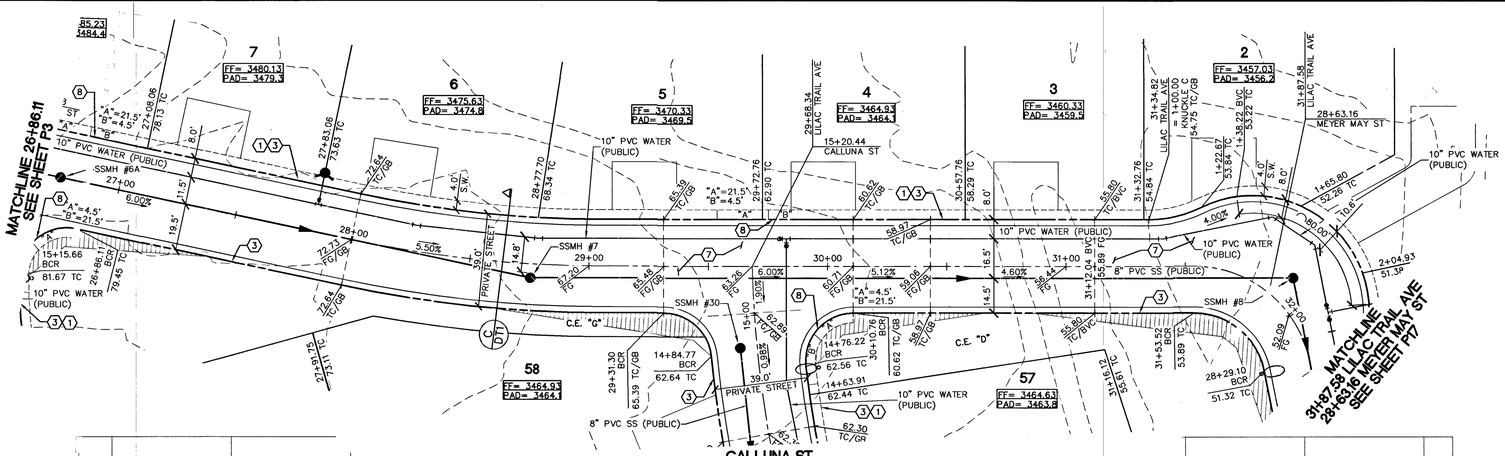
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

LILAC TRAIL AVE
STA. 2H+50.00 TO STA. 26+86.11
PLAN AND PROFILE

PROJ.#:135633A QS:137-33-SE

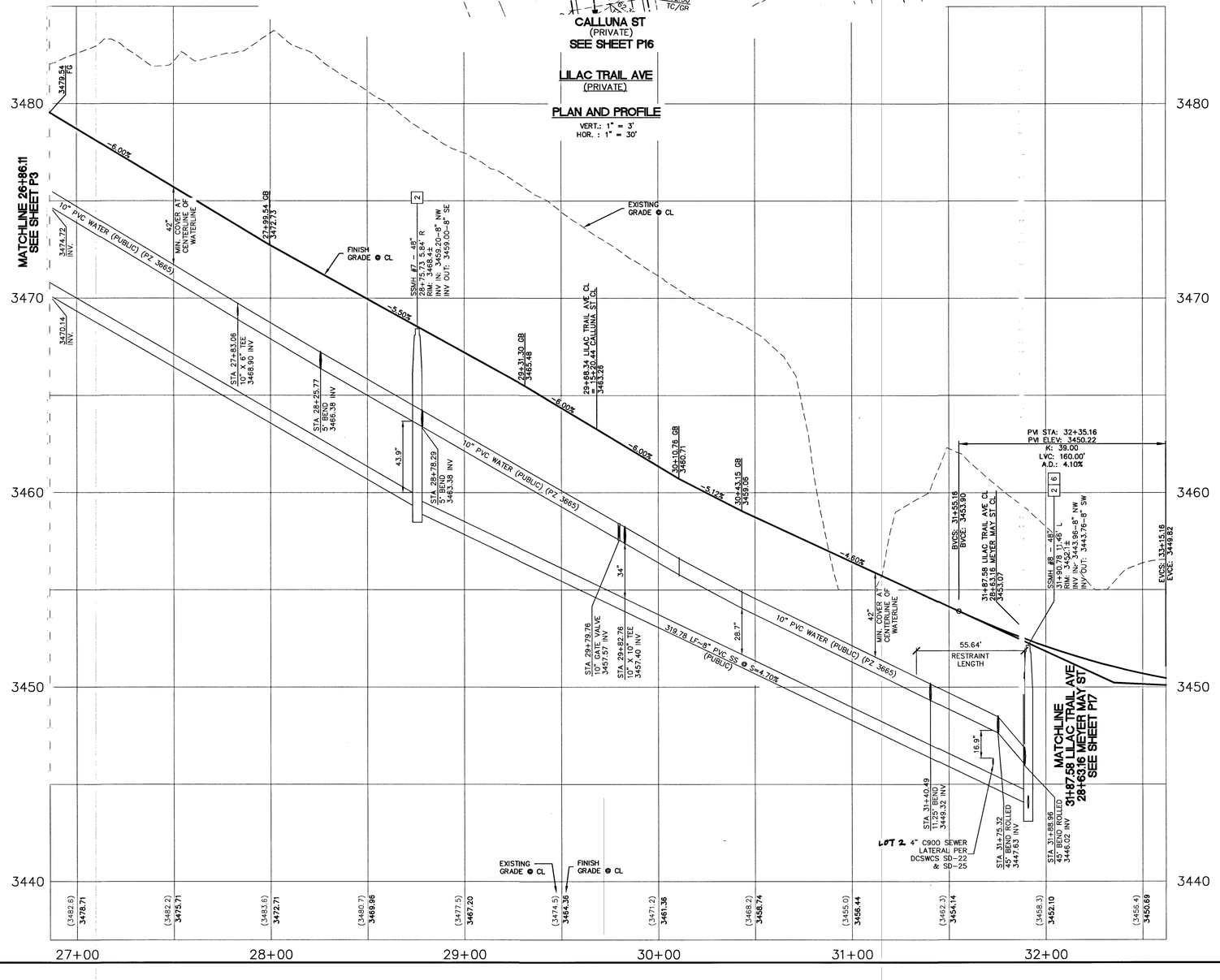
DRAWING
P3
18 OF 54 SHTS

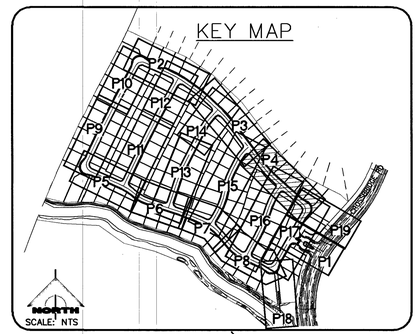


CALLUNA ST
(PRIVATE)
SEE SHEET P16

LILAC TRAIL AVE
(PRIVATE)

PLAN AND PROFILE
VERT.: 1" = 3'
HOR. : 1" = 30'





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STATE OF NEVADA
DUNG D. NGUYEN
No. 19151
CIVIL
PROFESSIONAL ENGINEER
DATE: 12/06/18

REV	DATE	DESCRIPTION
3	02/27/19	REV. CONSTRUCTION NOTES

DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:09:22

PROJECT NO.
5523-A063

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

F:\Projects\5005523-A063\DWG\Production\A063-P1-8.dwg
Quangvinh Nguyen

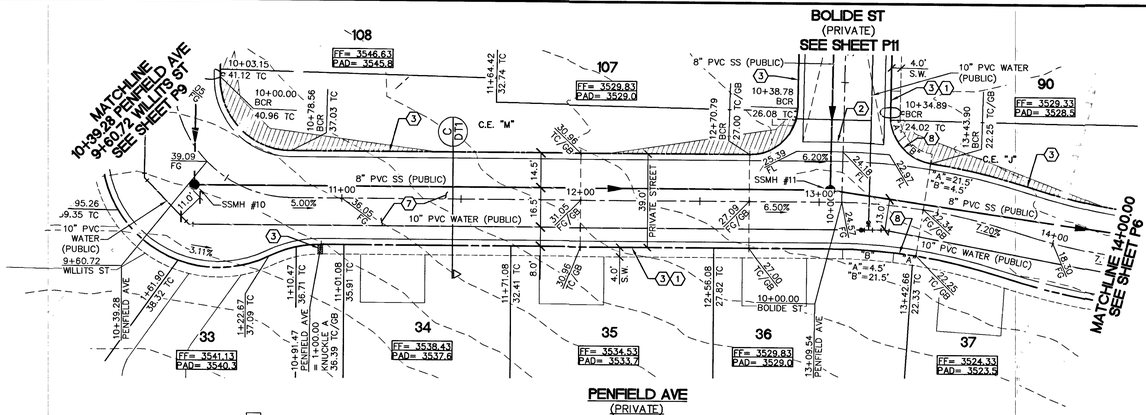
PARDEE HOMES

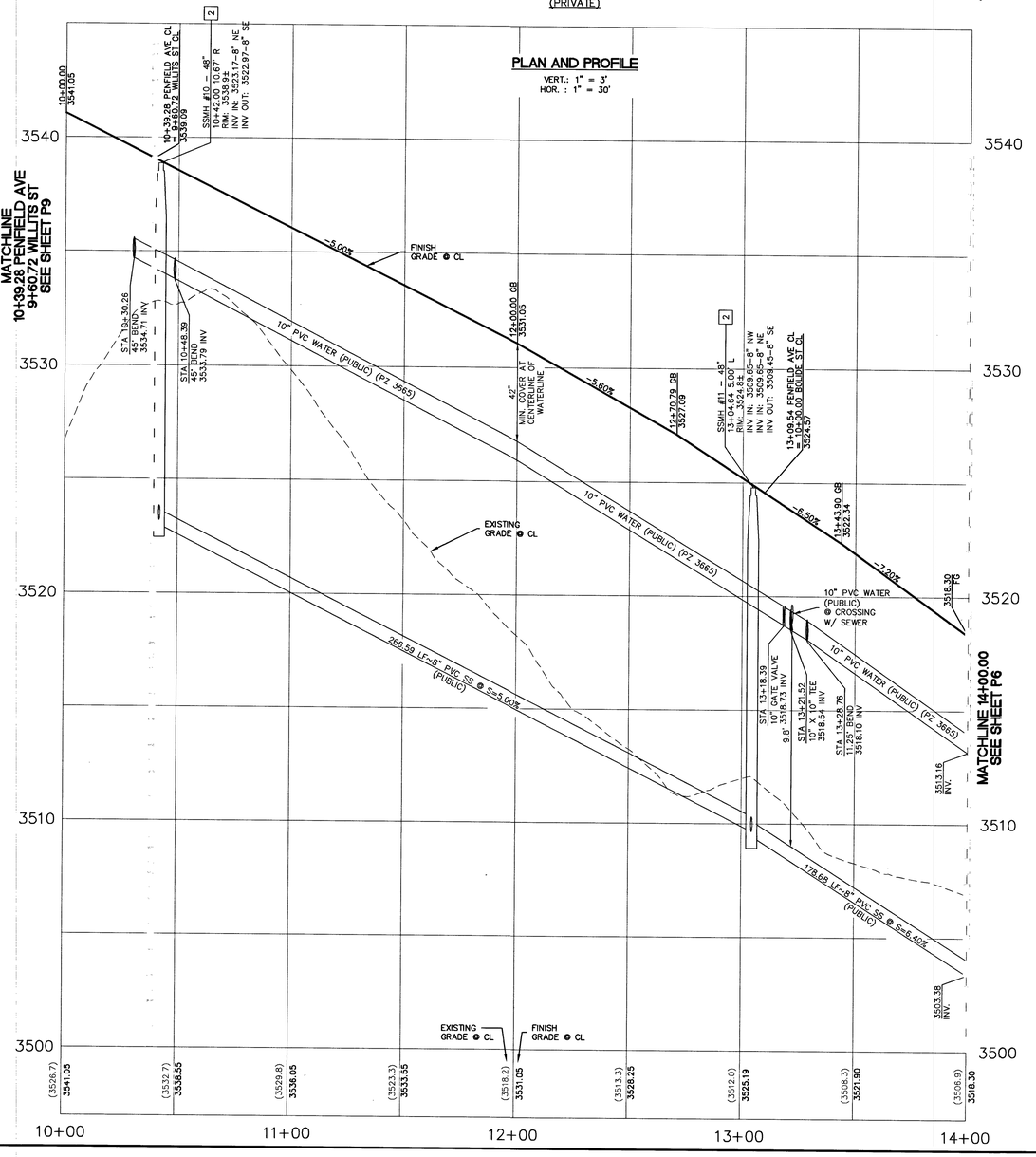
SUMMERLIN VILLAGE 24 - PARCEL I

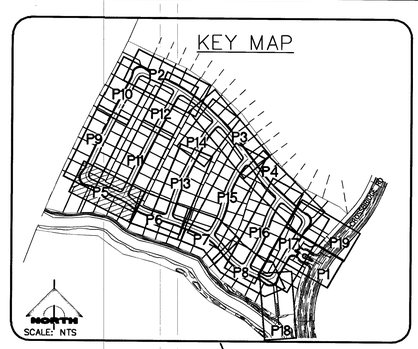
LILAC TRAIL AVE
STA. 26+86.11 TO STA. 31+87.58
PLAN AND PROFILE

DRAWING
P4
19 OF 54 SHTS

PRO.#:135633A QS:137:33-SE







NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-48
2. CONSTRUCT 8' WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
3. CONSTRUCT ROLL CURB PER USDCCA NO. 217.1
4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50
5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
6. INSTALL GATE – SEE LANDSCAPE.
7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
8. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
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11. CONSTRUCT 10' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "B" SHEET DT3.
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14. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
15. CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER DETAIL "M" SHEET DT3.
16. EX. SEWER MANHOLE ADJUST TO GRADE.

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

SEWER CONSTRUCTION NOTES

2. INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, AND SD-9 WITH PRECAST BASE, SINGLE 24" LID.

MINIMUM DEPTH DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATIONS.

NOTE

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

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NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D36B, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

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 811
OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 14917 — GLORIA P. NGUYEN — Exp. 12/31/2019 — CIVIL — 12/06/18

REV	DATE	DESCRIPTION
1	9-7-18	CONSTRUCTION NOTES
2	12-6-18	CONSTRUCTION NOTES

	AGEN APP	DATE	CGW APP
DRAWN		9-7-18	CJJ SS
DESIGN: GN			
DRAWN: GN			
CHECK: GDN			

PROJECT NO. 5523-A063

PLOT DATE: 12-06-18
PLOT TIME: 09:09:42

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

F:\Projects\3501\5523-A063\DWG\Production\A063-P1-8.dwg
Quangvinh Nguyen

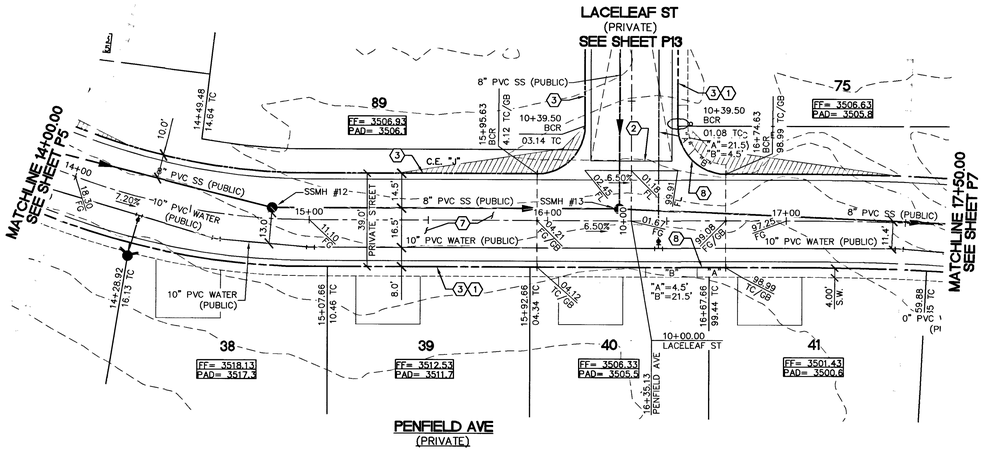
PRO.#:135633A QS:137-33-SE

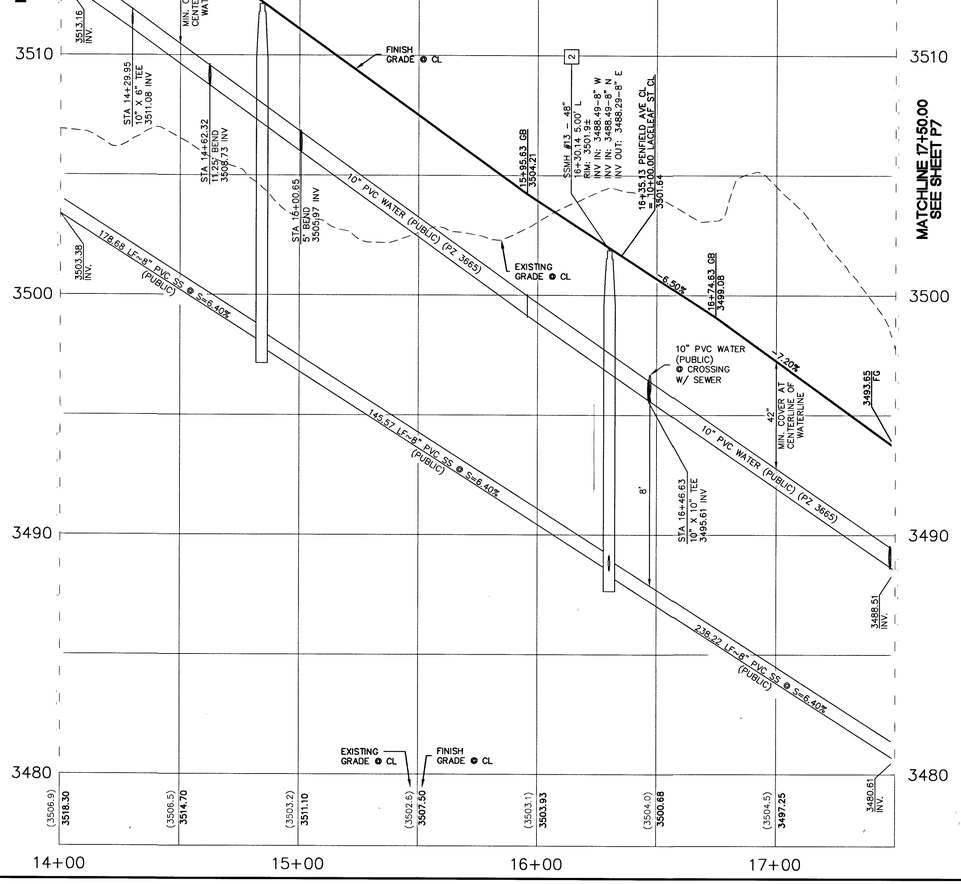
PARDEE HOMES

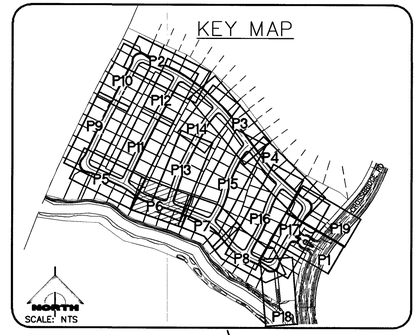
SUMMERLIN VILLAGE 24 - PARCEL I

PENFIELD AVE
STA. 10+39.28 TO STA. 14+00.00
PLAN AND PROFILE

DRAWING
P5
20 OF 54 SHTS







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WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA
No. 14918
PROFESSIONAL ENGINEER
DUYEN N. NGUYEN
Exp. 12/31/2019
DATE: 12/06/18

REV	DATE	DESCRIPTION
3	02/27/19	REV. CONSTRUCTION NOTES
F.F.H.	10-3-18	CLV SA
DESIGN:	QN	
DRAWN:	QN	
CHECK:	GDN	
PLOT DATE:	12-06-18	
PLOT TIME:	09:10:04	

PROJECT NO. 5523-A063

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

F:\Projects\5501\5523-A063\DWG\Production\A063-P1-8.dwg
Quangvinh Nguyen

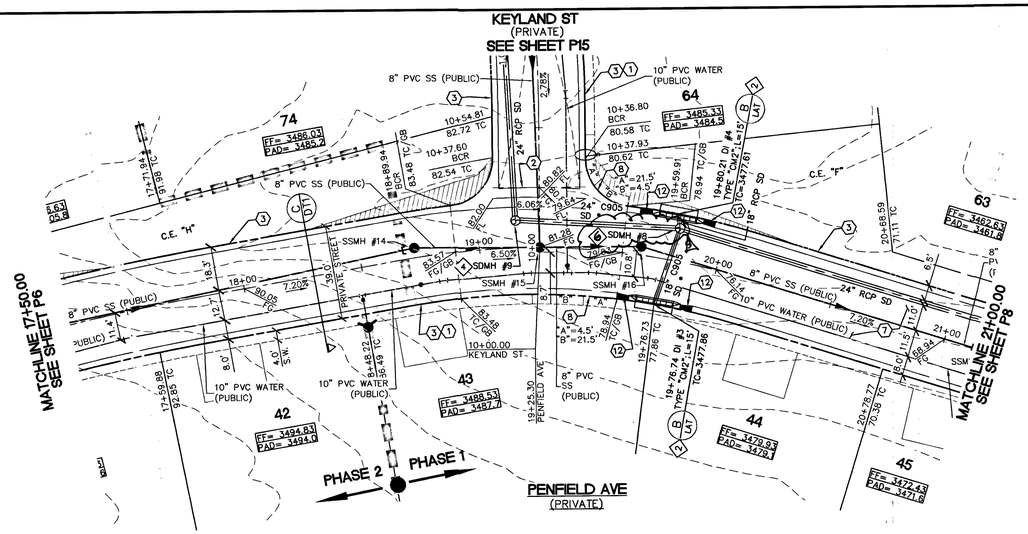
PARDEE HOMES

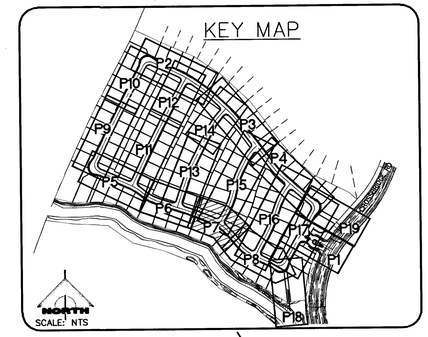
SUMMERLIN VILLAGE 24 - PARCEL I

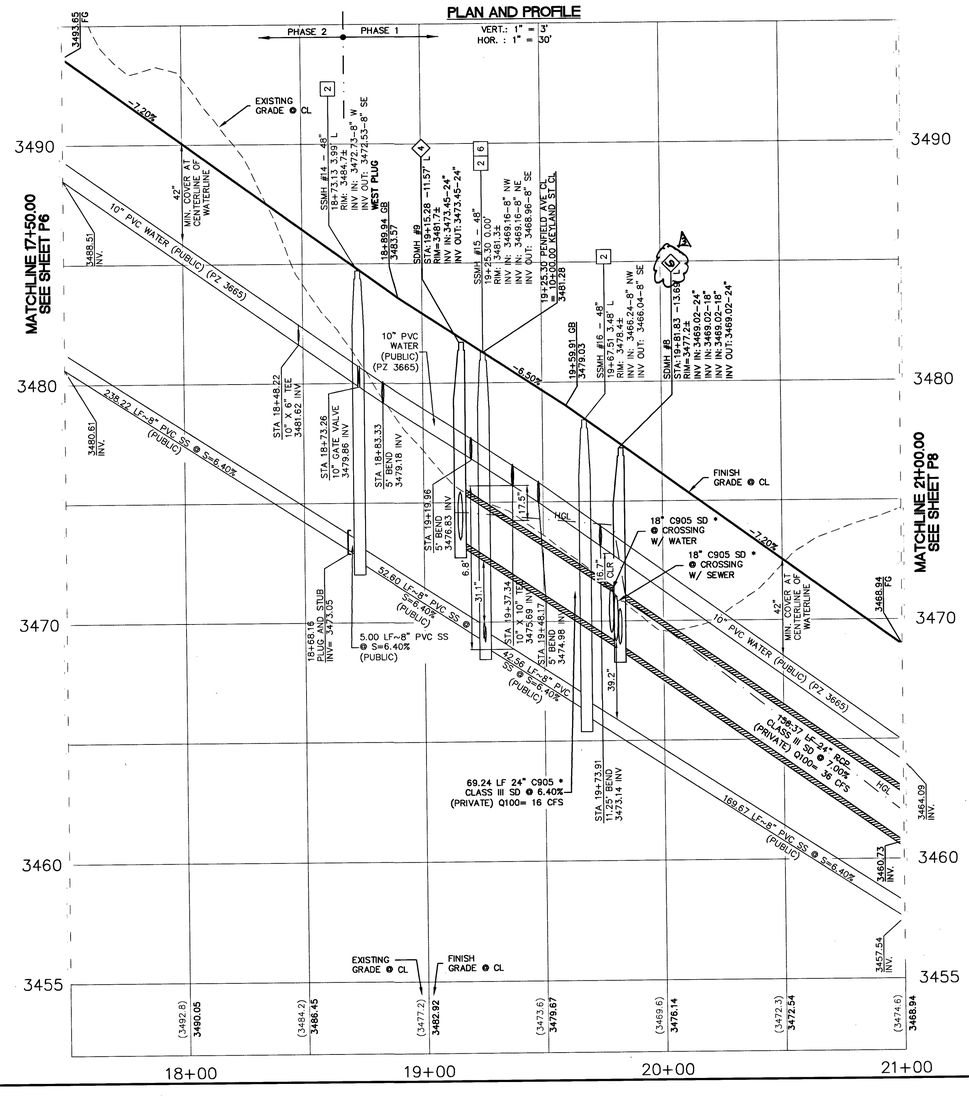
PENFIELD AVE
STA. 14+00.00 TO STA. 17+50.00
PLAN AND PROFILE

DRAWING
P6
21 OF 54 SHTS

PROJ#:135633A QS:137-33-SE







SEWER CONSTRUCTION NOTES

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* FOR C905 SEE SHEET LAT FOR TRENCHING & BEDDING DETAILS.

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16. EX. SEWER MANHOLE ADJUST TO GRADE.

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

STORM DRAIN CONSTRUCTION NOTES

1. CONNECT TO EXSITING STORM DRAIN.
2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3. CONSTRUCT TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.1.
4. CONSTRUCT 60" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
5. CONSTRUCT 48" TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.2.

NOTE

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA D. NGUYEN — No. 14919 — PROFESSIONAL ENGINEER — DATE: 12/06/18

NO	DESCRIPTION	DATE	AGEN APP	DATE	CCW APP
A	02/27/19 PREV. CONSTRUCTION NOTES	02/27/19		03/13/19	

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:10:24

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

F:\Projects\500\5523-A063\DWG\Production\A063-P1-8.dwg
Quangvinh Nguyen

PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

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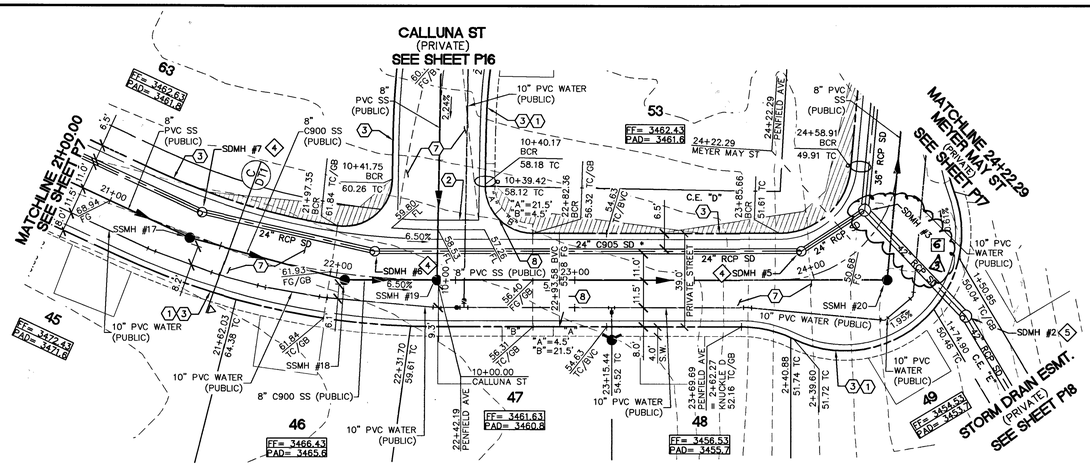
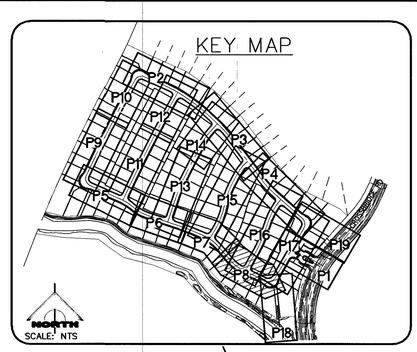
STA. 17+50.00TO STA. 21+00.00
PLAN AND PROFILE

PROJ.#:135633A QS:137-33-SE

DRAWING
P7
22 OF 54 SHTS





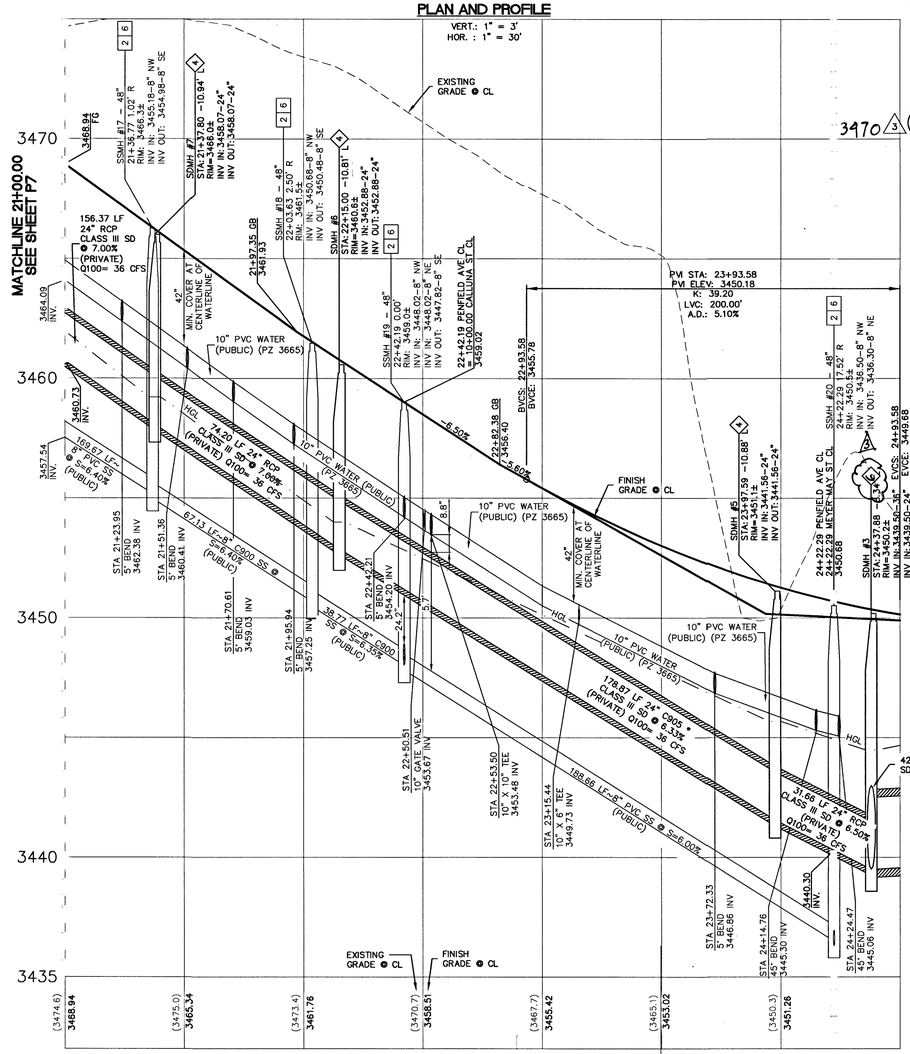
NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

PENFIELD AVE
(PRIVATE)

PLAN AND PROFILE



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5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 404.1
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F: 702.804.2299
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F:\Projects\5001\5523-A063\DWG\Production\A063-P1-8.dwg
Quangvinh Nguyen

REV	DATE	DESCRIPTION
2	12/27/19	REV. CONSTRUCTION NOTES
1	11/21/18	AGEN APP
	10/31/18	CGW APP
	DATE: 12/06/18	

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:10:47

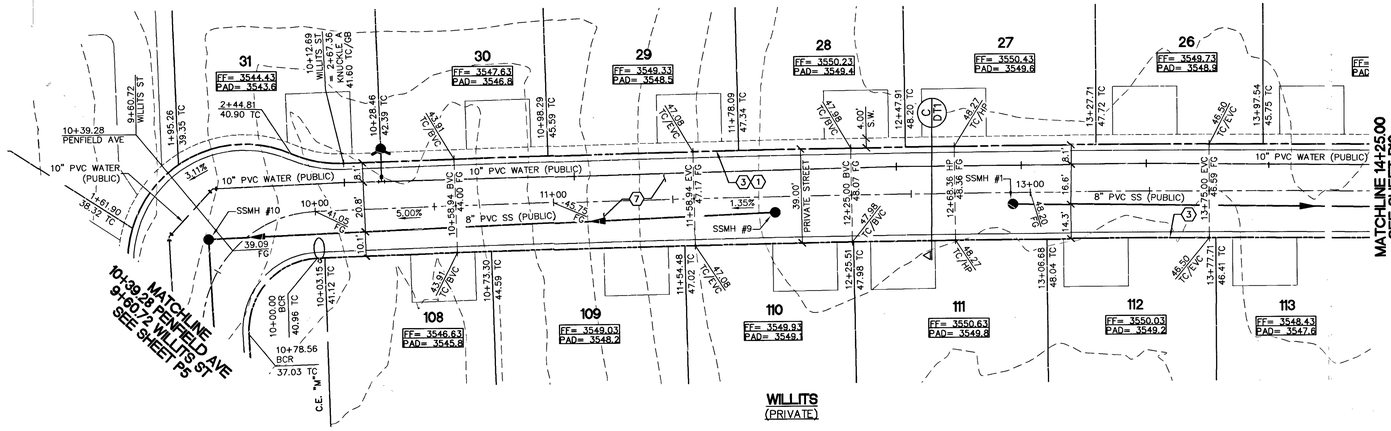
PARDEE HOMES

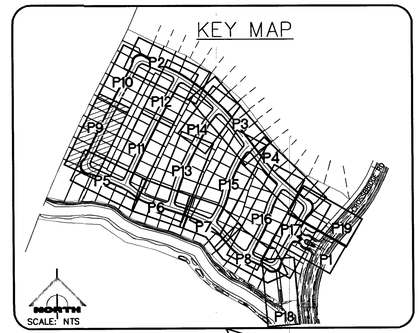
SUMMERLIN VILLAGE 24 - PARCEL I

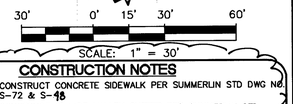
PENFIELD AVE.
STA. 21+00.00 TO STA. 24+22.29
PLAN AND PROFILE

DRAWING
P8
23 OF 54 SHTS

PROJ.#:135633A QS:137-33-SE

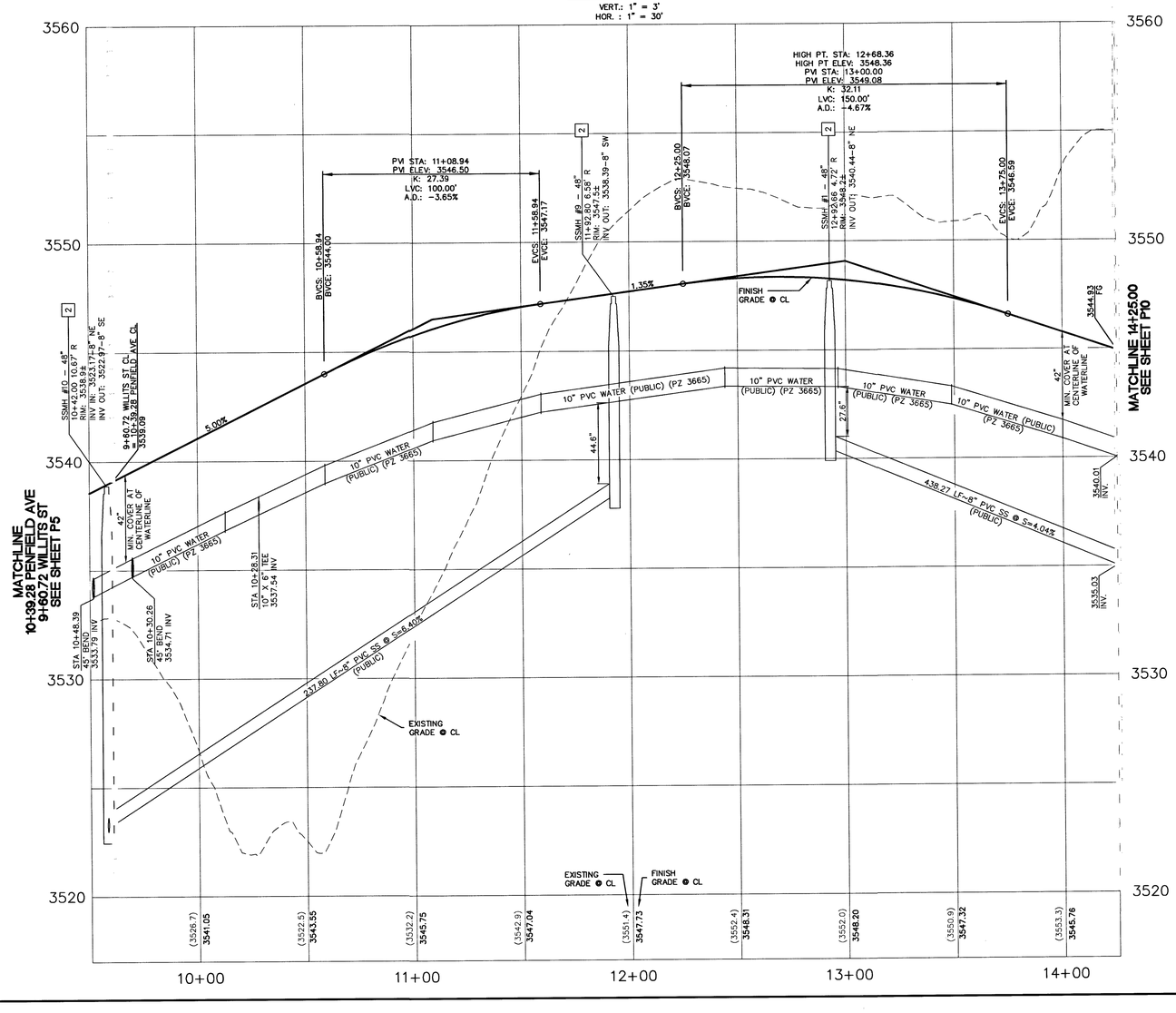






PLAN AND PROFILE

VERT.: 1" = 3'
HOR. : 1" = 30'



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BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

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Call before you Dig
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FAST
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA
PROFESSIONAL ENGINEER
NGUYEN
No. 14918
CIVIL
DATE: 12/06/18

REV	DATE	DESCRIPTION	DRAWN	CHK'D	APP'D
2	12-7-18	PER COMMENTS	QN	GDN	GCW
1	10-5-18	PER COMMENTS	QN	GDN	GCW
0	08-27-18	REVISED PER COMMENTS	QN	GDN	GCW

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:12:52

GCW, INC.
ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

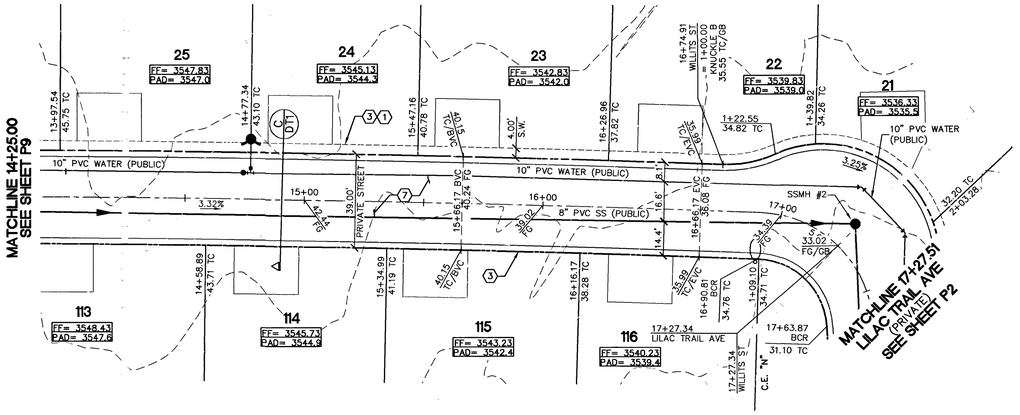
F:\Projects\500\5523-A063\DWG\Production\A063-P9-18.dwg
Quangvinh Nguyen

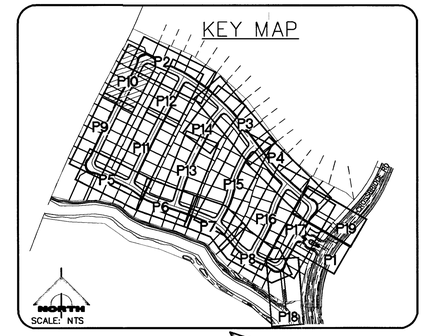
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

WILLITS ST
STA. 9+60.72 TO STA. 14+25.00
PLAN AND PROFILE

DRAWING
P9
24 OF 54 SHTS





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

WILLITS ST
(PRIVATE)

PLAN AND PROFILE

VERT.: 1" = 3'
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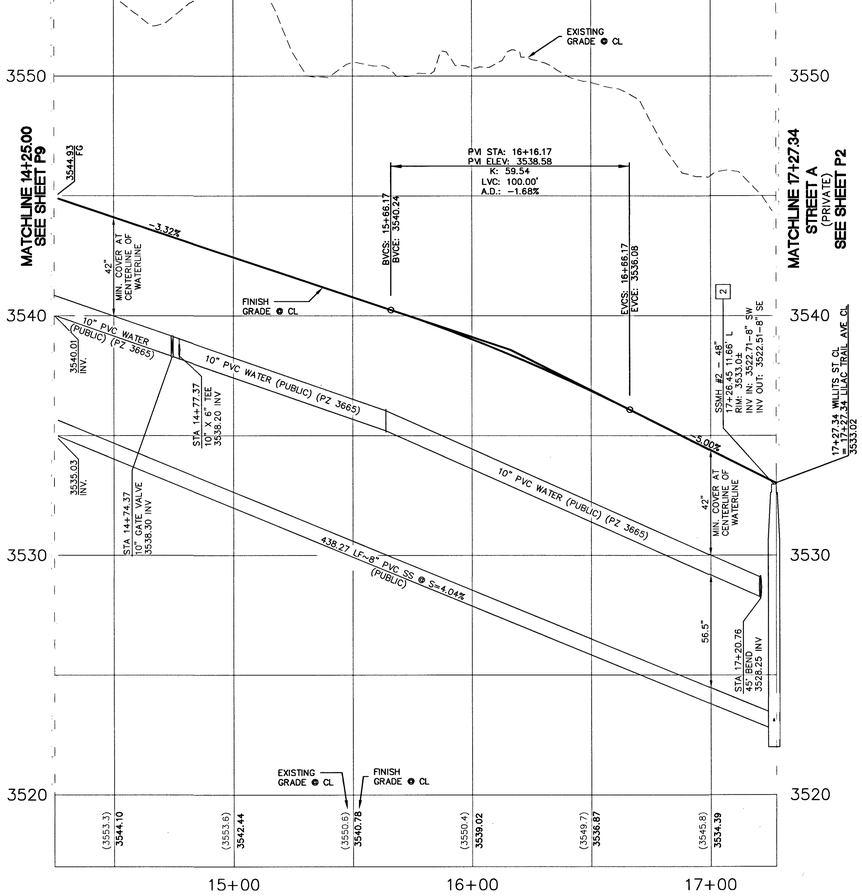

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PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

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STATE OF NEVADA
PROFESSIONAL ENGINEER
GIA D. NGUYEN
Exp. 12/31/2019
CIVIL
No. 14918

DATE: 12/06/18

REV	DATE	DESCRIPTION	DRWN	MGEN APP	DATE	GCW APP
2	02/27/19	REV. CONSTRUCTION NOTES	GDN	MGEN APP	10.3.19	GCW

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:13:09

GCW
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LAS VEGAS, NV 89146
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F:\Projects\5500\5523-A063\DWG\Production\A063-P9-18.dwg
Quangvinh Nguyen

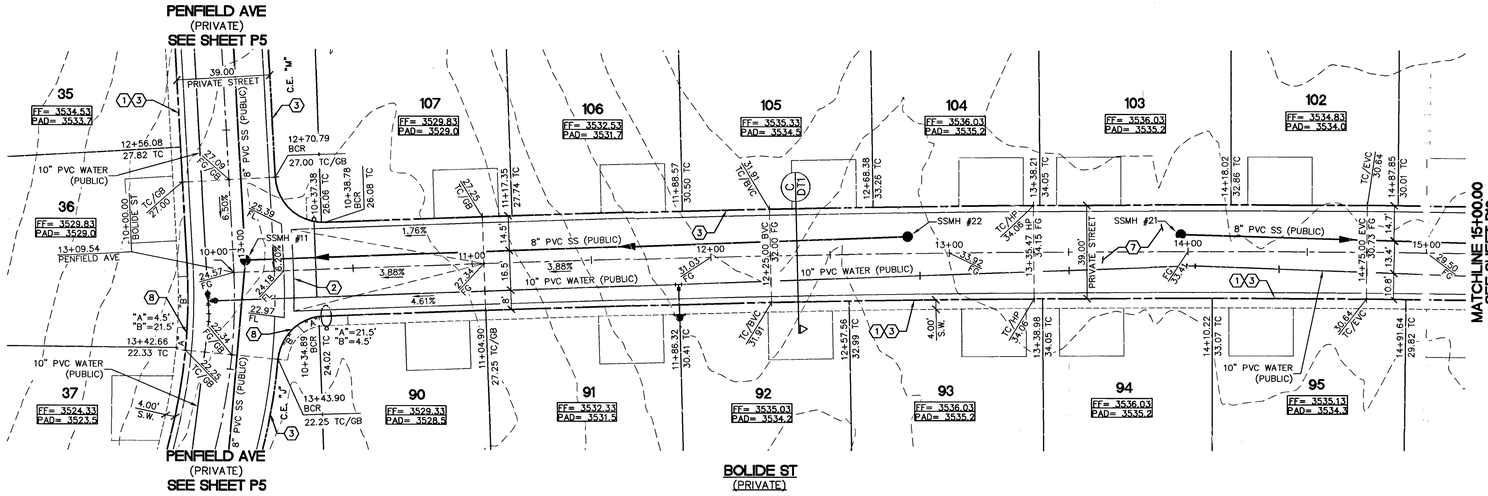
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

WILLITS ST
STA. 14+25.00 TO STA. 17+27.34
PLAN AND PROFILE

DRAWING
P10
25 OF 54 SHTS

PROJ#:135633A OS:137-33-SE


PENFIELD AVE
(PRIVATE)
SEE SHEET P5
PENFIELD AVE
(PRIVATE)
SEE SHEET P5
BOLIDE ST
(PRIVATE)
MATCHLINE 15+00.00
SEE SHEET P12
35
FF= 3534.53
PAD= 3533.7
36
FF= 3529.83
PAD= 3529.0
37
FF= 3524.33
PAD= 3523.5
107
FF= 3529.83
PAD= 3529.0
106
FF= 3532.53
PAD= 3531.7
105
FF= 3535.33
PAD= 3534.5
104
FF= 3536.03
PAD= 3535.2
103
FF= 3536.03
PAD= 3535.2
102
FF= 3534.83
PAD= 3534.0
90
FF= 3528.33
PAD= 3528.5
91
FF= 3532.33
PAD= 3531.5
92
FF= 3535.03
PAD= 3534.2
93
FF= 3536.03
PAD= 3535.2
94
FF= 3536.03
PAD= 3535.2
95
FF= 3535.13
PAD= 3534.3
SSMH #11
SSMH #22
SSMH #21
8" PVC SS (PUBLIC)
10" PVC WATER (PUBLIC)
PRIVATE STREET
39.00'
4.00' S.W.
"A"=4.5'
"B"=21.5'
"A"=21.5'
"B"=4.5'
C.E. "M"
C.E. "L"
13+09.54 PENFIELD AVE
12+56.08
27.82 TC
12+70.79 BCR
27.00 TC/GB
13+42.66
22.33 TC
13+43.90 BCR
22.25 TC/GB
10+38.78 BCR
26.08 TC
10+37.38
26.06 TC
11+17.35
27.74 TC
11+88.57
30.50 TC
12+86.38
33.26 TC
13+38.21
34.09 TC
14+18.02
32.86 TC
14+87.85
30.01 TC
TC/EVC
30.64
11+04.90
27.25 TC/GB
11+86.32
30.41 TC
12+57.56
32.99 TC
13+38.98
34.05 TC
14+10.22
33.07 TC
14+91.64
29.92 TC
TC/BVC
31.91
TC/EVC
30.64
10+00.00 BOLIDE ST
10+00.00 PENFIELD AVE
10+00.09 BOLIDE ST
10+04.24 PENFIELD AVE
10+17.00
10+21.00 VG
10+25.00
10+34.57
10+34.80 BCR
24.02 TC
24.57 FG
24.18 FL
22.97 FL
24.34 FG
24.02 TC/GB
22.25 TC/GB
6.50%
1.76%
3.88%
4.61%
12+00
13+00
14+00
15+00
30.00' FG
33.00' FG
33.47 FG
34.15 FG
33.57 FG
30.73 FG
14.5'
16.5'
14.7'
13.4'
10.8'
49.50' FG
TC/VC
34.49
TC/VC
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TC/VC
34.66
TC/VC
34.68
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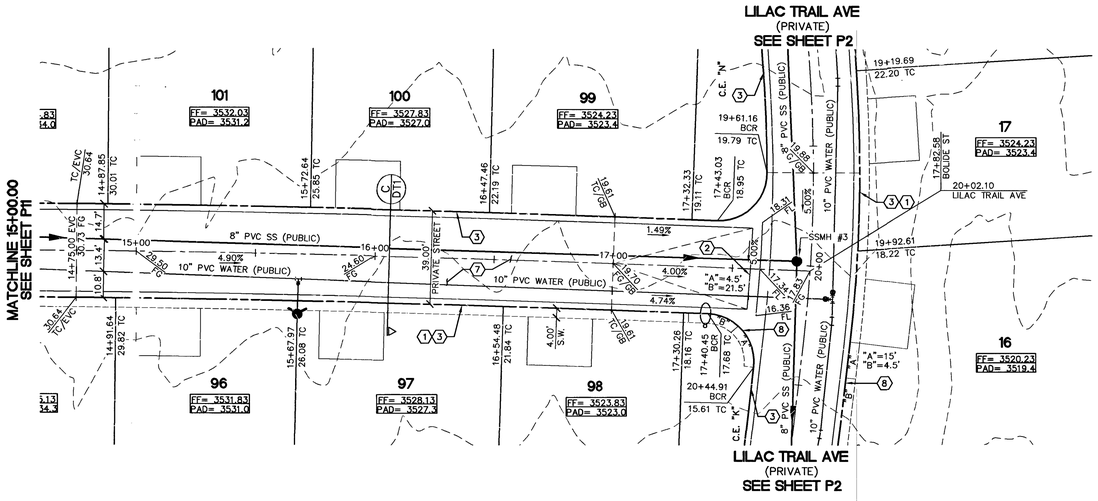
34.68
TC/VC
34.68



BOLIDE ST
(PRIVATE)

PLAN AND PROFILE

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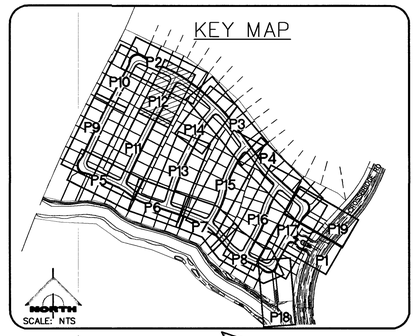

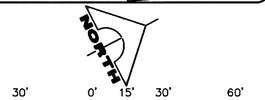

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Exp. 12/31/2019
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DATE: 12/06/18

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A	12/27/18	REVS. CONSTRUCTION NOTES	L.N.D.	M.M.D.	12/5/18	G.M.V.

PROJECT NO. 5523-A063
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GCV ENGINEERS + SURVEYORS
1555 S. RAINBOW BLVD.
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T: 702.804.2000
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F:\Projects\500\5523-A063\DWG\Production\A063-P9-18.dwg
Quangvinh Nguyen

PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

BOLIDE ST
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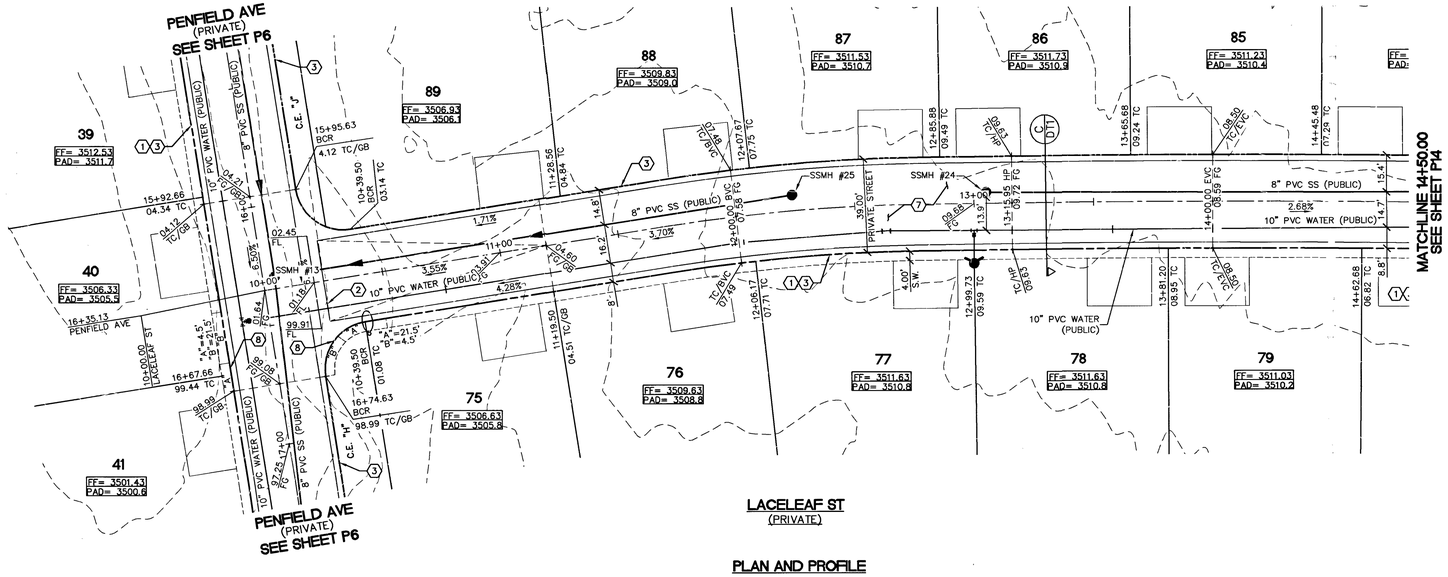
PLAN AND PROFILE

PRO.#:135633A QS:137-33-SE

DRAWING
P12
27 OF 54 SHTS



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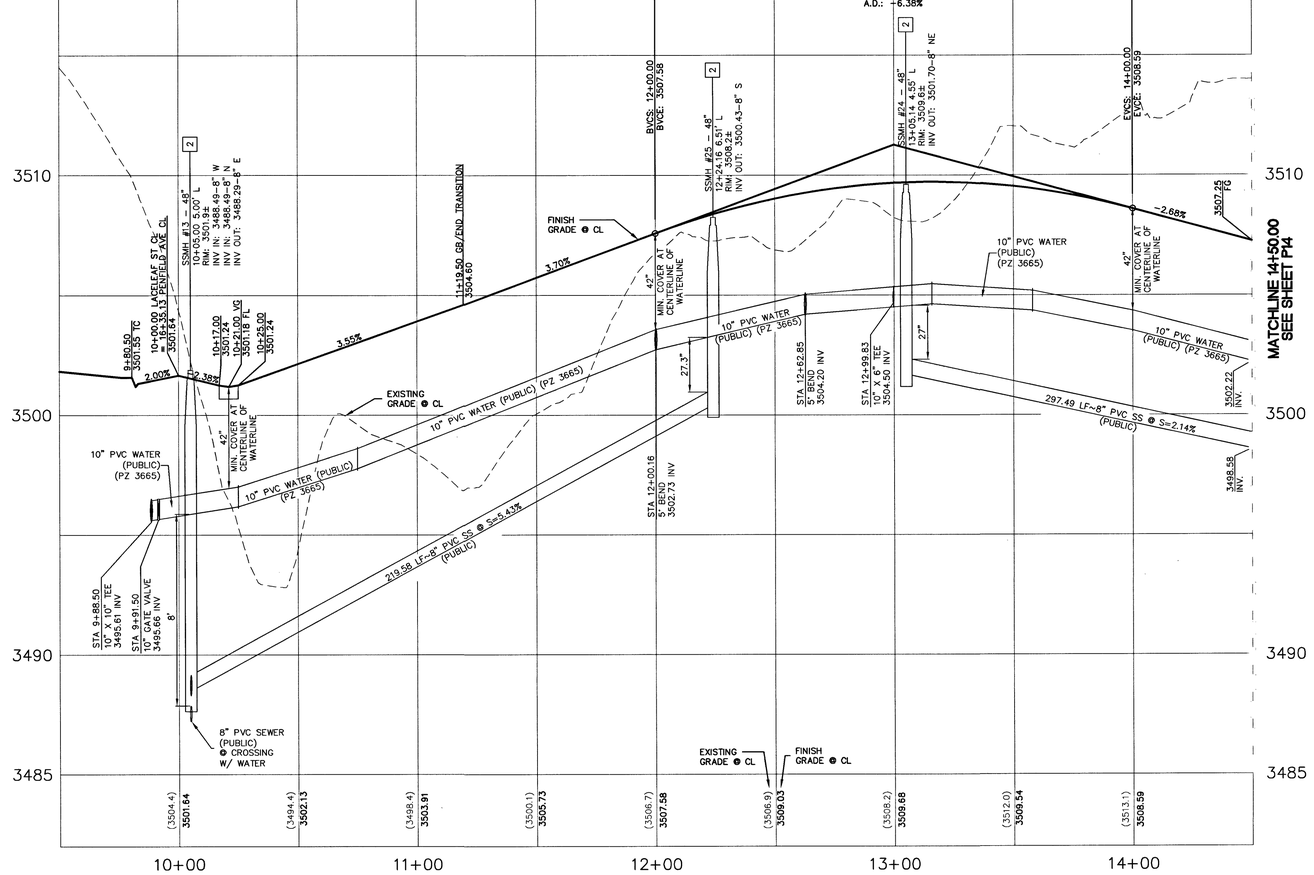

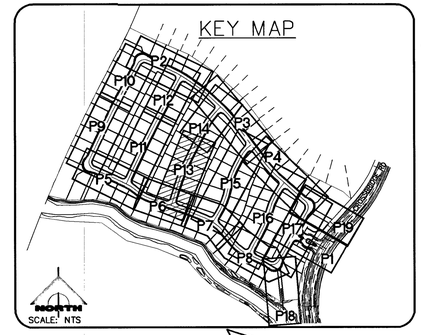

NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER SUMMERLIN STD DWG NO. S-72 & S-46
2. CONSTRUCT 8' WIDE VALLEY GUTTER PER SUMMERLIN STD DWG NO. S-64.
3. CONSTRUCT ROLL CURB PER USDCCA NO. 217.1
4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-59.
5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
6. INSTALL GATE – SEE LANDSCAPE.
7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
8. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
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10. EXISTING CURB TO BE REMOVED
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12. CONSTRUCT 5' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET DT3.
13. CONSTRUCT SIDEWALK UNDERDRAIN PER USDCCA NO. 236.
14. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 2. SEE PLAN FOR "A" & "B" DIMENSION.
15. CONSTRUCT REMOVABLE WROUGHT IRON FENCE PER DETAIL "M" SHEET DT3.
16. EX. SEWER MANHOLE ADJUST TO GRADE.

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

SEWER CONSTRUCTION NOTES

[2] INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, AND SD-9 WITH PRECAST BASE, 24" SINGLE LID.

MINIMUM DEPTH DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATIONS.

NOTE

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NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

Joanne Oren

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
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1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA — LISA D. NGUYEN — No. 18489 — Exp. 12/31/2019 — CIVIL — PROFESSIONAL ENGINEER

DATE: 12/06/18

NO	DATE	DESCRIPTION
1	09/27/19	REV. CONSTRUCTION NOTES

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:14:10

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

F:\Projects\5501\5523-A063\DWG\Production\A063-P9-18.dwg
Quongnoh Nguyen

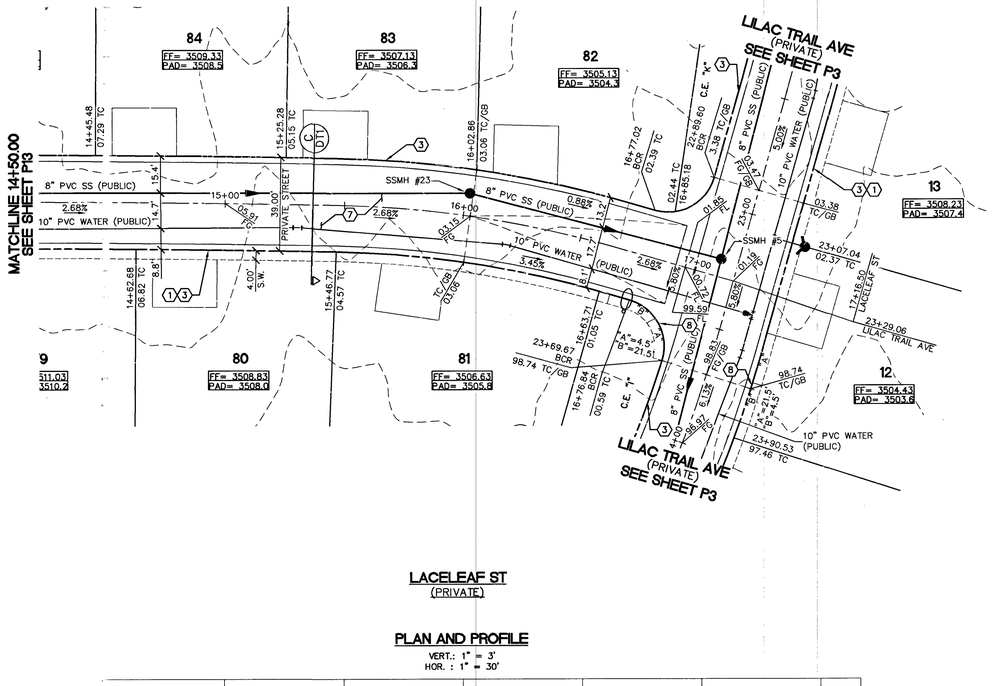
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

LACELEAF ST.
STA. 10+00.00 TO STA. 14+50.00
PLAN AND PROFILE

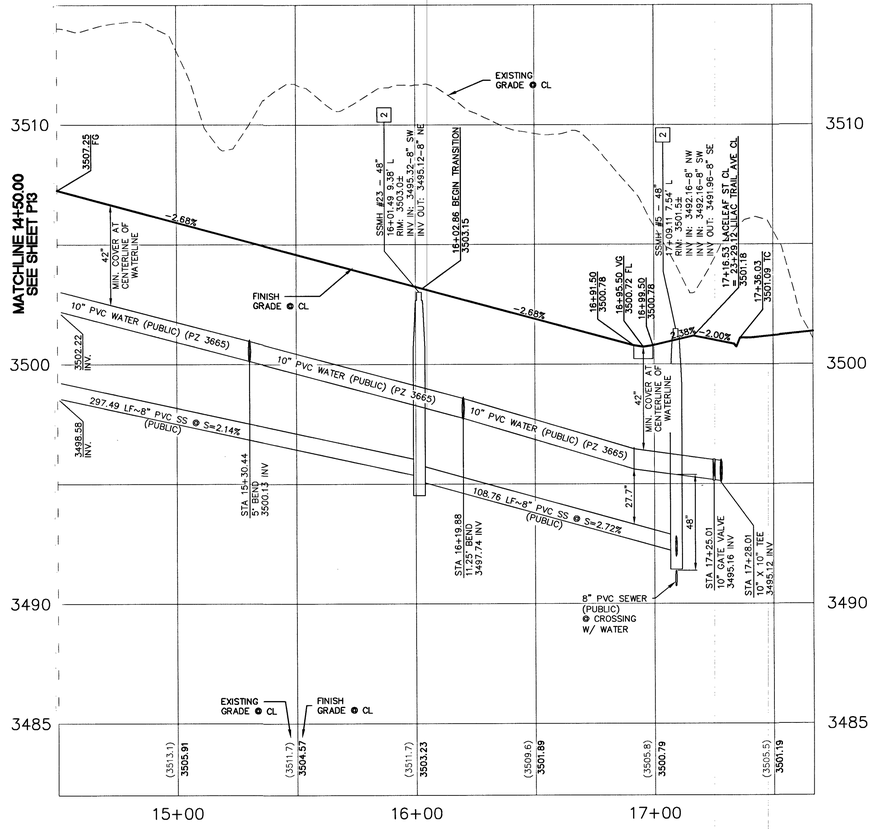
DRAWING
P13
28 OF 54 SHTS

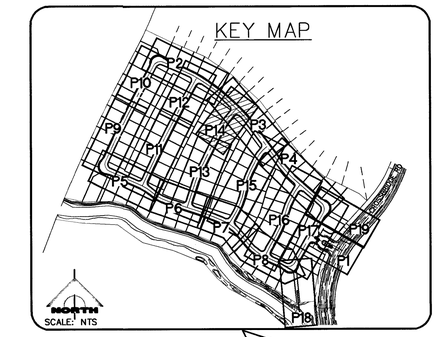
PROJ#:135633A GS:137-33-SE



LACELEAF ST
(PRIVATE)

PLAN AND PROFILE
VERT.: 1" = 3'
HOR. : 1" = 30'





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4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
6. INSTALL GATE – SEE LANDSCAPE.
7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
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WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

SEWER CONSTRUCTION NOTES

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 14918 — GIA b. NGUYEN — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18

REV	DATE	DESCRIPTION
3	02/27/19	REV. CONSTRUCTION NOTES
2	9-7-17	AS BUILT
1	10.2.17	CLV SS
	DATE	DESCRIPTION

PROJECT NO. 5523-A063

DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:14:27

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

F:\Projects\5500\5523-A063\DWG\Production\A063-P9-18.dwg
Quangvinh Nguyen

PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

LACELEAF ST
STA. 14+50.00 TO STA. 17+16.53
PLAN AND PROFILE

DRAWING
P14
29 OF 54 SHTS

PROJ.#:135633A QS:137-33-SE

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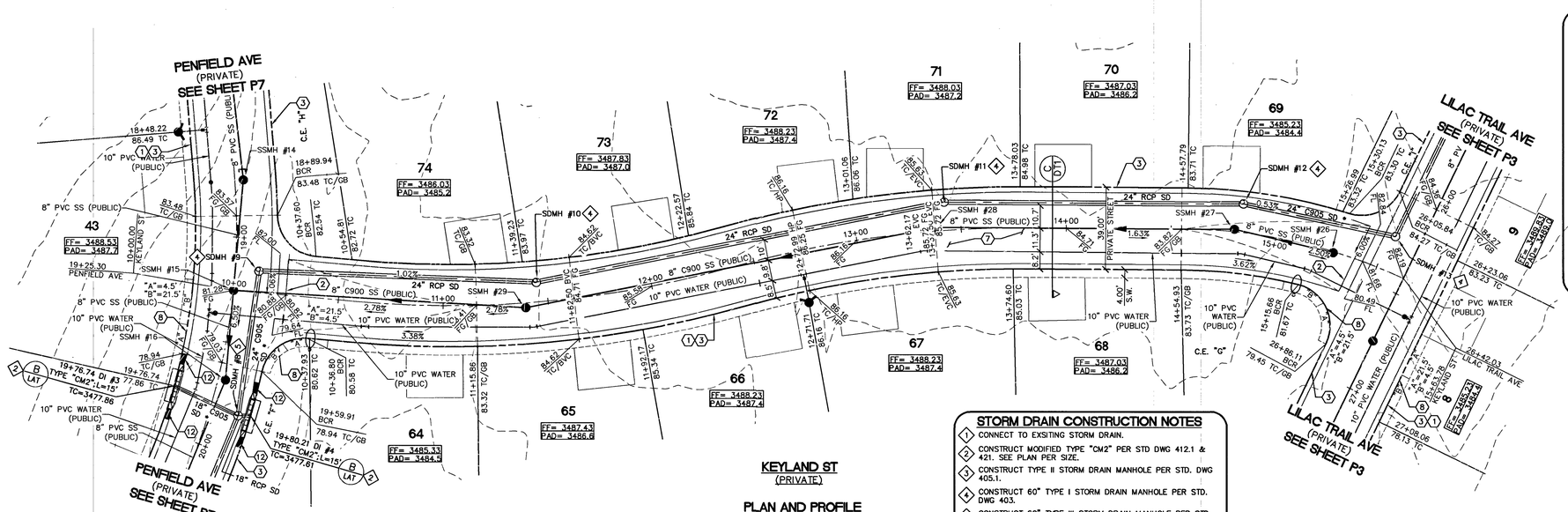
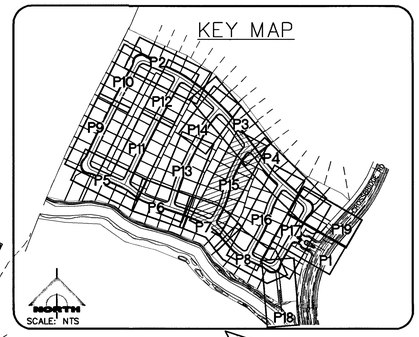


KEY MAP



NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

KEYLAND ST
(PRIVATE)

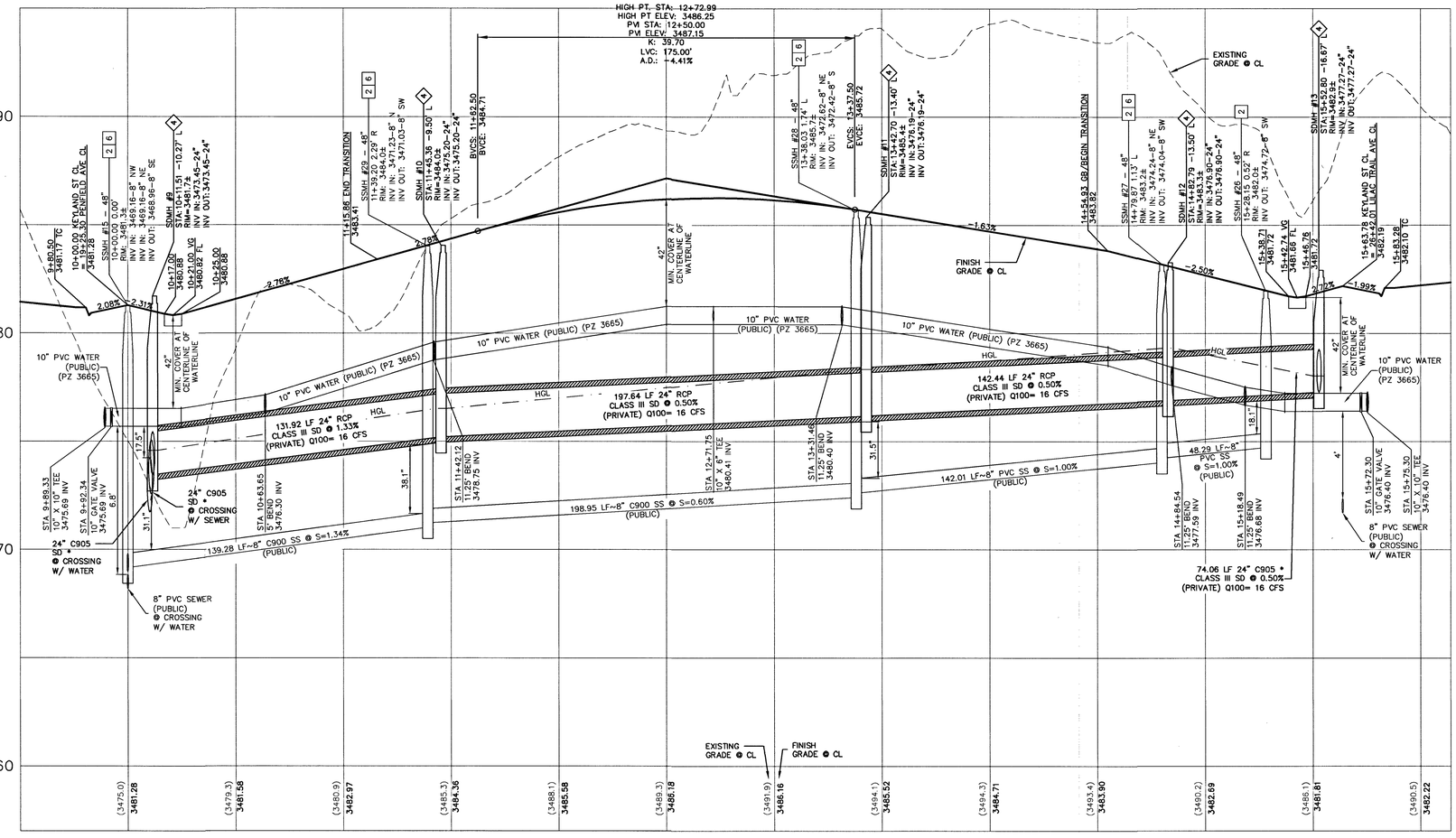
PLAN AND PROFILE

VERT.: 1" = 3'
HOR. : 1" = 30'

STORM DRAIN CONSTRUCTION NOTES

1. CONNECT TO EXSITING STORM DRAIN.
2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3. CONSTRUCT TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.1.
4. CONSTRUCT 60" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.

* FOR C905 SEE SHEET LAT FOR TRENCHING & BEDDING DETAILS.



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4. CONSTRUCT MEDIAN "A" TYPE PER SUMMERLIN STD DWG NO. S-50.
5. CONSTRUCT "L" CURB PER SUMMERLIN STD DWG NO. S-47.
6. INSTALL GATE – SEE LANDSCAPE.
7. CONSTRUCT 2" AC OVER 4" TYPE II BASE.SEE SOIL REPORT PREPARED BY NOVA GEOTECHNICAL PROJ. #G-18-066 FOR MORE DETAIL.
8. CONSTRUCT HANDICAP RAMP PER USDCCA NO. 235 CASE 1. SEE PLAN FOR "A" & "B" DIMENSION.
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11. CONSTRUCT 10' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "B" SHEET DT3.
12. CONSTRUCT 5' TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL "C" SHEET DT3.
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WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

SEWER CONSTRUCTION NOTES

2. INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, AND SD-9 WITH PRECAST BASE, 24" SINGLE LID.
6. CORROSION PROTECTION PER DCSWCS 3.16.8 & 4.9.9.

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

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STATE OF NEVADA — PROFESSIONAL ENGINEER — No. 14918 — GINA G. NGUYEN — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18

REV	DESCRIPTION	DATE	APP
A	02/27/19 REV. CONSTRUCTION NOTES	03/11/19	GGN

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GGN
PLOT DATE: 12-06-18
PLOT TIME: 09:14:51

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

F:\Projects\500\5523-A063\DWG Production\A063-P9-18.dwg
Quonphim Nguyen

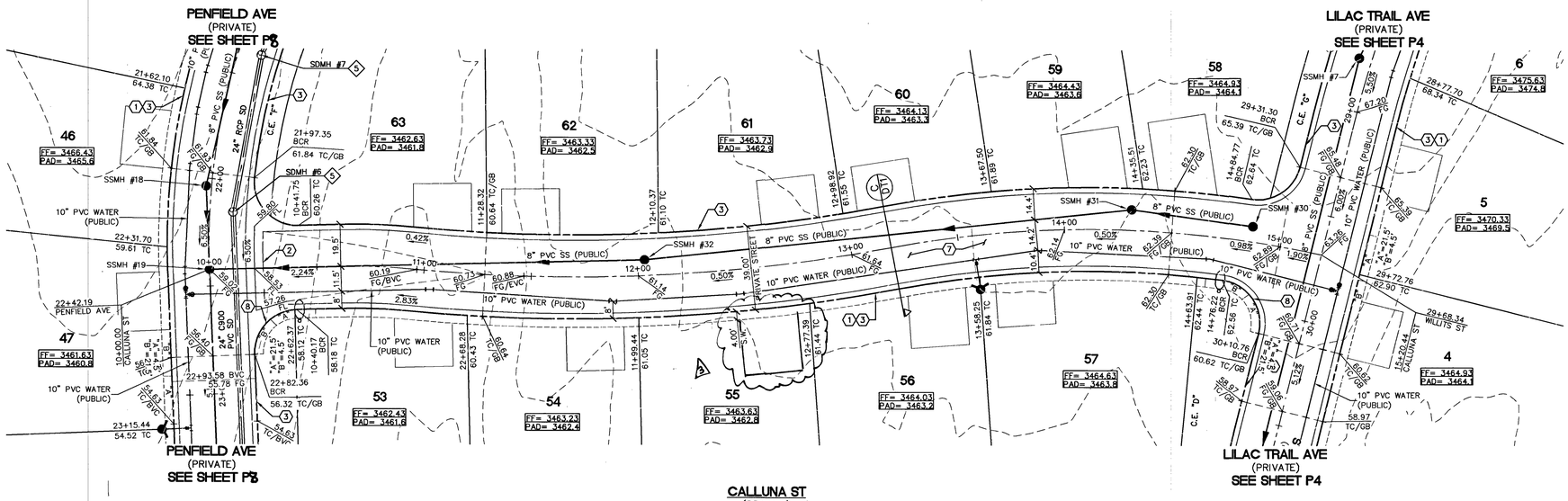
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

KEYLAND ST
STA. 10+00.00 TO STA. 15+63.78
PLAN AND PROFILE

DRAWING
P15
30 OF 54 SHTS

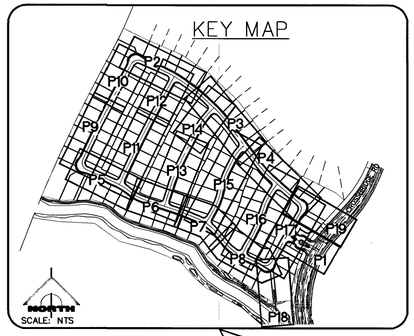
PROJ.#:135633A QS:137-33-SE

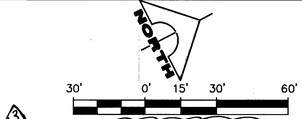


CALLUNA ST
(PRIVATE)

PLAN AND PROFILE

VERT.: 1" = 3'
HOR. : 1" = 30'





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STATE OF NEVADA
No. 14917
PROFESSIONAL ENGINEER
CIVIL
DATE: 12/06/18

REV	DATE	DESCRIPTION
2	02/27/19	REV. CONSTRUCTION NOTES

	DATE	APP
AGEN APP	10.3.19	GW
CLV APP	9-17-19	

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 12-05-18
PLOT TIME: 09:15:12

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

F:\Projects\500\5523-A063\DWG Production\A063-P9-18.dwg
Quangvinh Nguyen

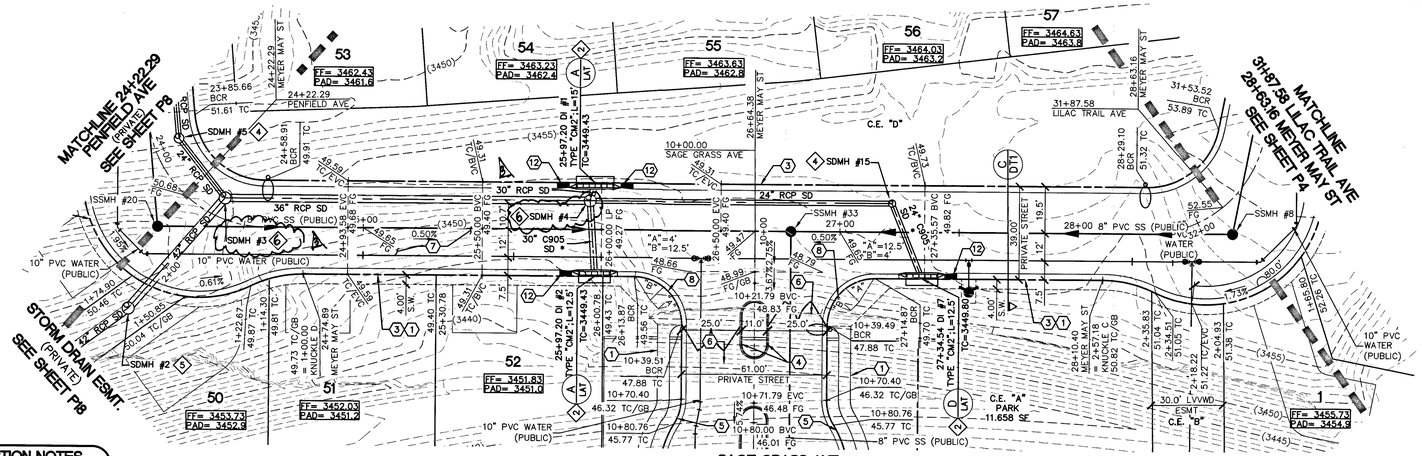
PARDEE HOMES

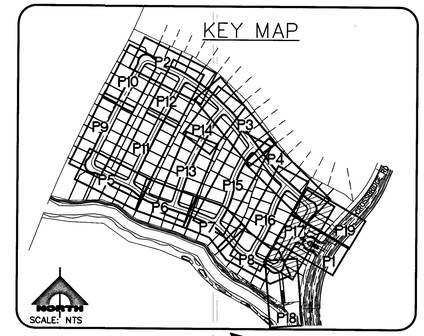
SUMMERLIN VILLAGE 24 - PARCEL I

CALLUNA ST
STA. 10+00.00 TO STA. 15+20.44
PLAN AND PROFILE

DRAWING
P16
31 OF 54 SHTS

PROJ.#:135633A QS:137-33-SE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

STORM DRAIN CONSTRUCTION NOTES

1. CONNECT TO EXSITING STORM DRAIN.
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5. CONSTRUCT 60" TYPE III STORM DRAIN MANHOLE PER STD. DWG 406.1.
6. CONSTRUCT 48" TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.2.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.

CONSTRUCTION NOTES

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16. EX. SEWER MANHOLE ADJUST TO GRADE.

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

SEWER CONSTRUCTION NOTES

2. INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, AND SD-9 WITH PRECAST BASE, 24" SINGLE LID.
6. CORROSION PROTECTION PER DCSWCS 3.16.8 & 4.9.9.

NOTE

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BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

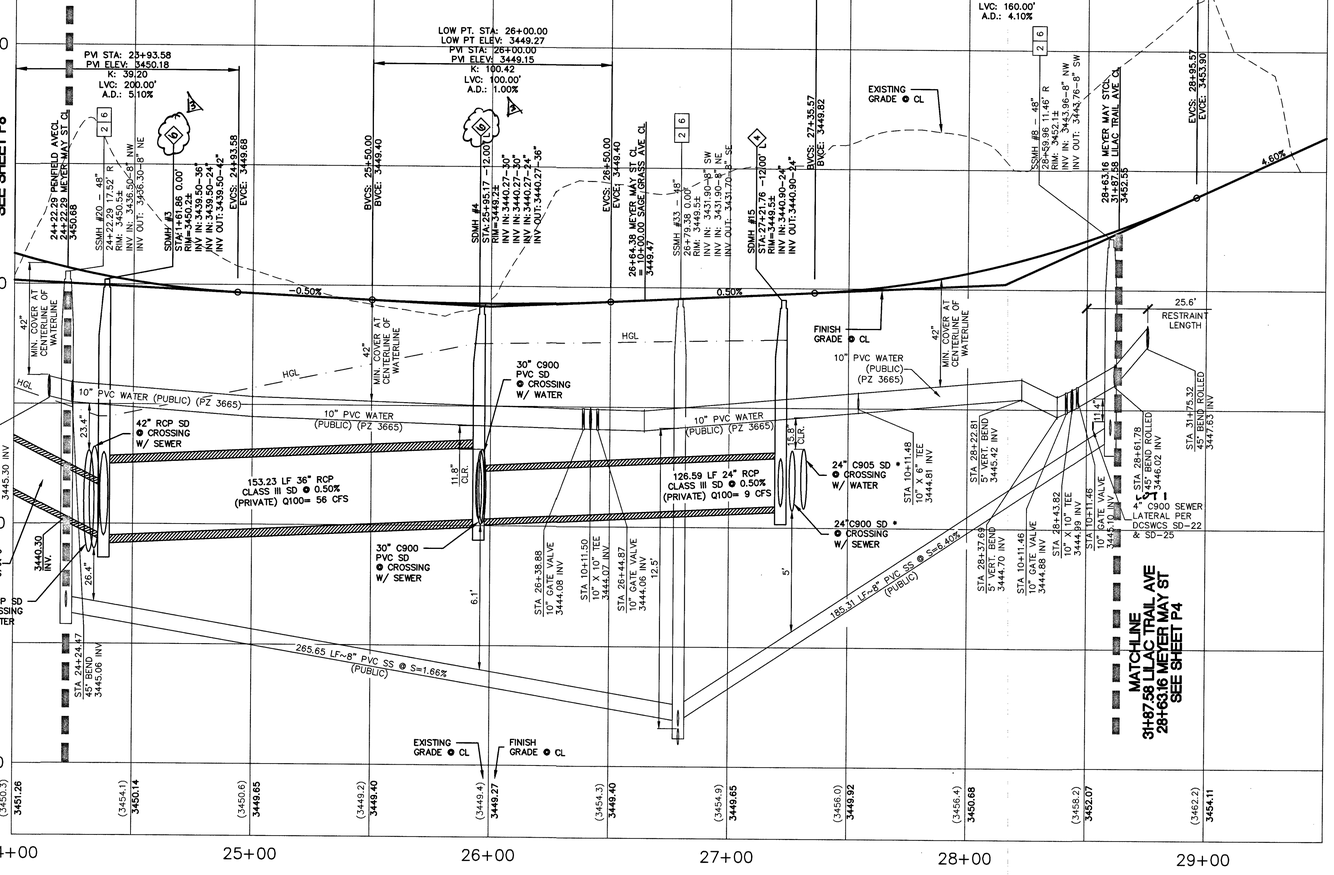
PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

MEYER MAY ST (PRIVATE)

PLAN AND PROFILE

VERT.: 1" = 3'
HOR. : 1" = 30'



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FAST
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 10:35:29

REV	DATE	DESCRIPTION
A	02/27/19	REV. CONSTRUCTION NOTES

PARDEE HOMES

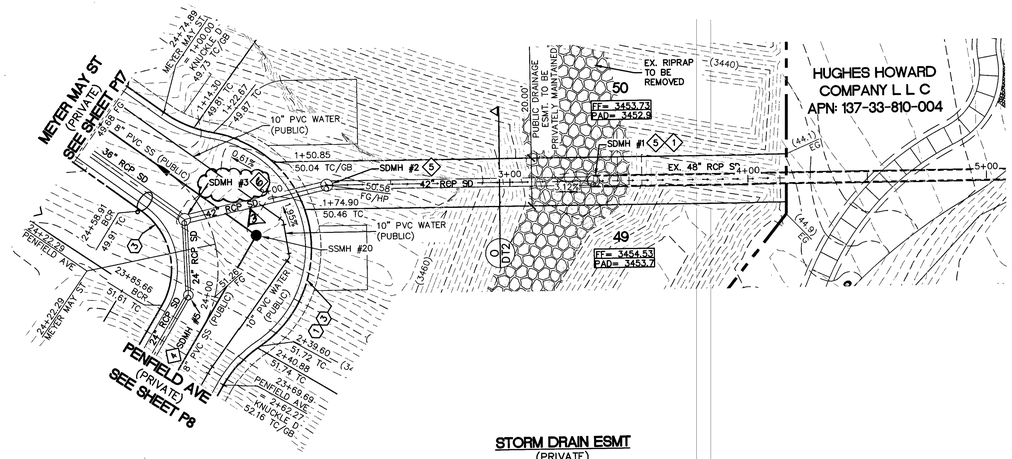
SUMMERLIN VILLAGE 24 - PARCEL I

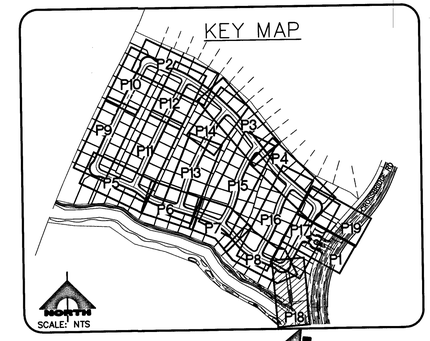
MEYER MAY ST
STA. 26+00.00 TO STA. 28+63.16
PLAN AND PROFILE

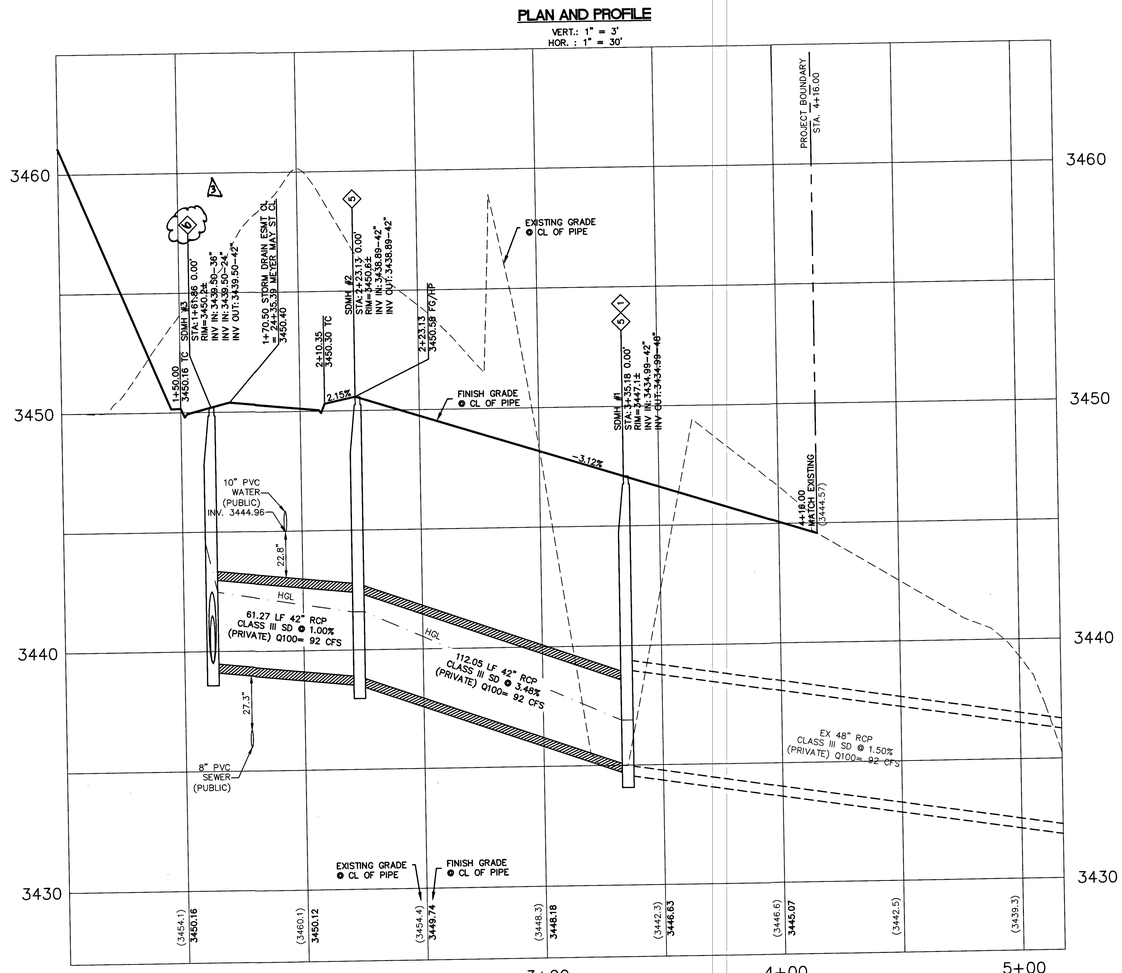
DRAWING P17
32 OF 54 SHTS

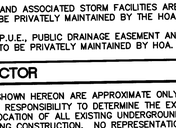
PRO.#:135633A GS:137-33-SE

STATE OF NEVADA — PROFESSIONAL ENGINEER — JIA LI NGUYEN — No. 14919 — 12/01/2019 — CIVIL — DATE: 12/06/18









30' 0' 15' 30' 60'

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WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

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ELEVATION: 3246.63 (FEET)
989.574 (METERS)

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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

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FAST
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA
LISA D. NGUYEN
No. 13919
Exp. 12/31/2019
CIVIL
PROFESSIONAL ENGINEER

DATE: 12/06/18

REV	DATE	DESCRIPTION
1	12/27/19	REV. CONSTRUCTION NOTES

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 10:36:02

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

F:\Projects\5500\5523-A063\DWG\Production\A063-P18.dwg
Luky Roxana Lopez

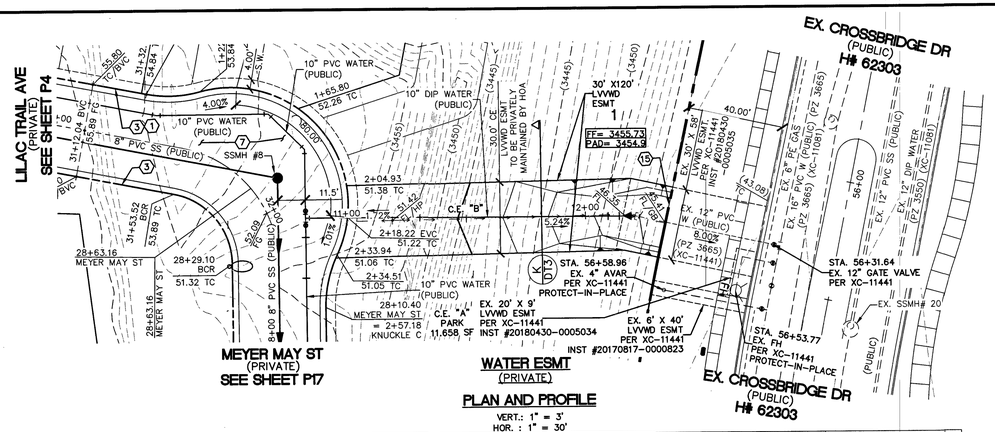
PARDEE HOMES

SUMMERLIN VILLAGE 24 – PARCEL I

STORM DRAIN ESMT
STA. 1+50.00 TO STA. 4+16.00
PLAN AND PROFILE

DRAWING
P18
33 OF 54 SHTS

PROJ#:135633A QS:137-33-SE



PLAN AND PROFILE

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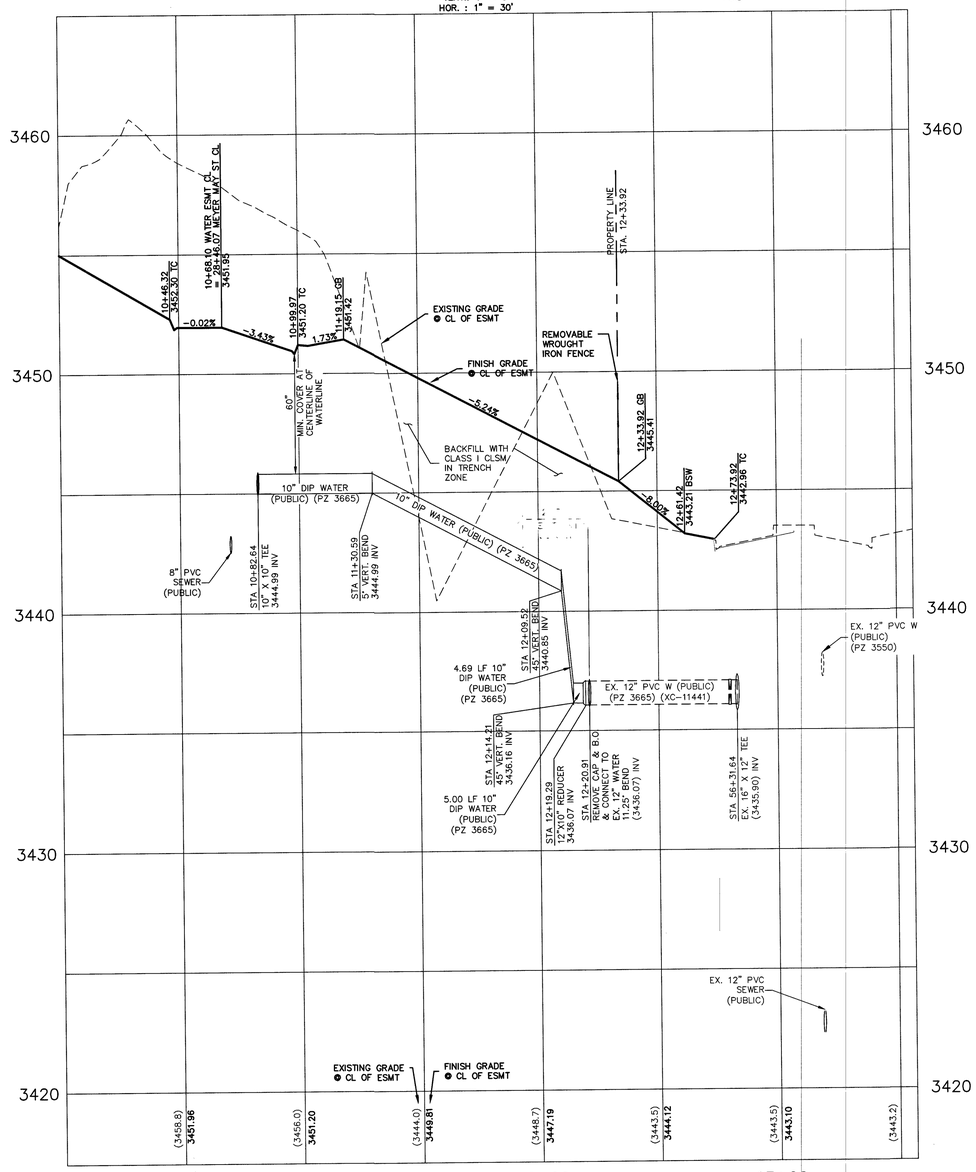

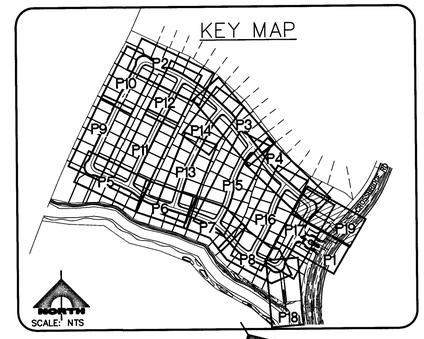

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WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

MINIMUM DEPTH DURING CONSTRUCTION

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATIONS.

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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

L# 18-02530 | CLV DWG# 107Y5092

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

STATE OF NEVADA — PROFESSIONAL ENGINEER — No. 14918 — GIA D. NGUYEN — Exp. 12/31/2019 — CIVIL

DATE: 12/06/18

NO.	DESCRIPTION	DATE	APP
7	ADD CONSTRUCTION NOTES	10/25/18	GDN
6	REVISED PER CITY COMMENTS	7/5/18	GDN
5	REVISED PER CITY COMMENTS	6/27/18	GDN
4	REVISED PER CITY COMMENTS	5/29/18	GDN
3	REVISED PER CITY COMMENTS	4/27/18	GDN
2	REVISED PER CITY COMMENTS	3/29/18	GDN
1	REVISED PER CITY COMMENTS	2/27/18	GDN

PROJECT NO. 5523-A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 10:36:10

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

F:\Projects\500\5523-A063\DWG\Production\A063-P18.dwg
Luky Roxana Lopez

PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

WATER ESMT
STA. 10+68.00 TO STA. 12+74.02
PLAN AND PROFILE

DRAWING P19
34 OF 54 SHTS

PRO.#:135633A QS:137-33-SE

HUGHES HOWARD
COMPANY L L C
APN: 137-33-101-001

SANITARY SEWER MANHOLE SCHEDULE

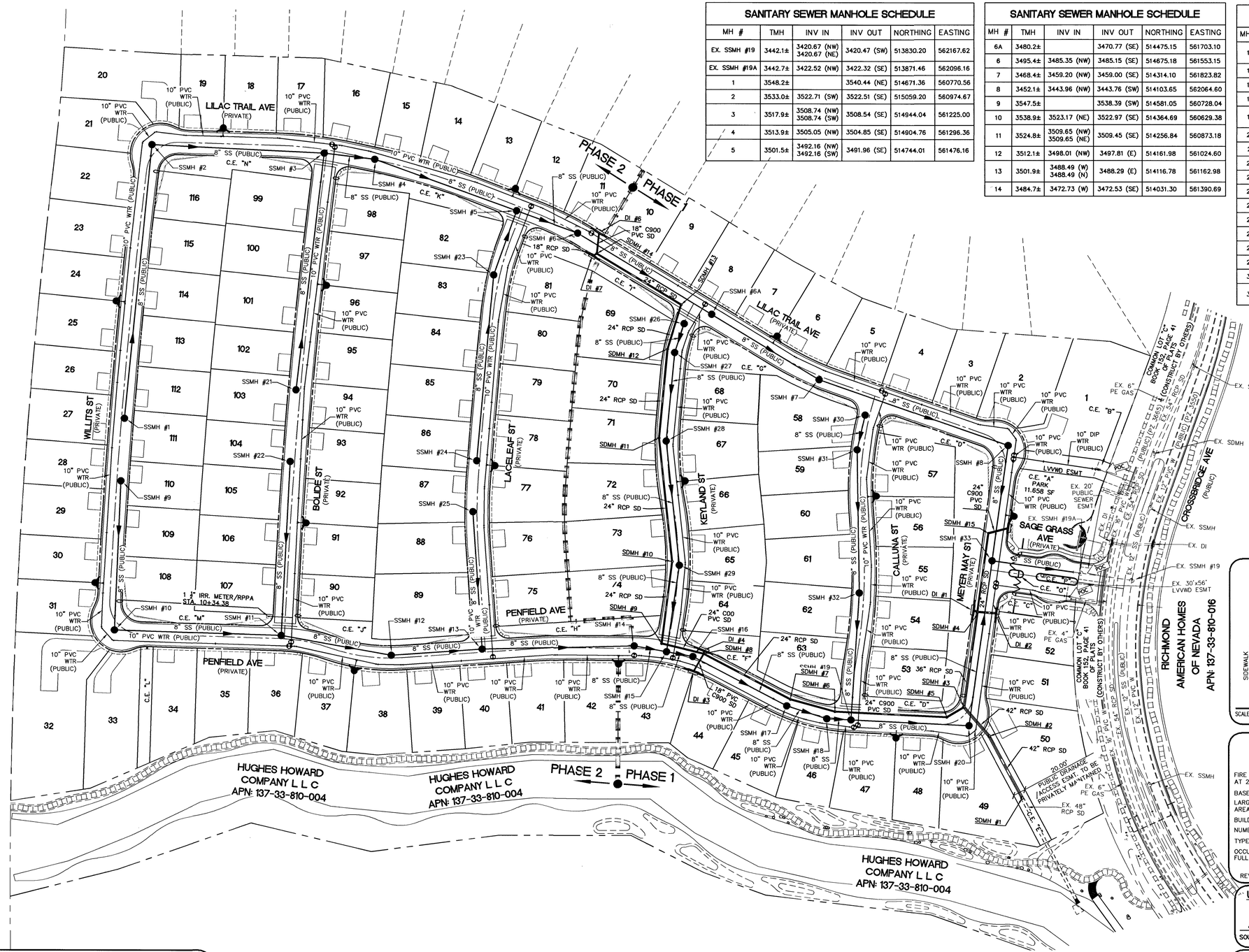
MH #	TMH	INV IN	INV OUT	NORTHING	EASTING
EX. SSMH #19	3442.1±	3420.67 (NW) 3420.67 (NE)	3420.47 (SW)	513830.20	562167.62
EX. SSMH #19A	3442.7±	3422.52 (NW)	3422.32 (SE)	513871.46	562096.16
1	3548.2±		3540.44 (NE)	514671.36	560770.56
2	3533.0±	3522.71 (SW)	3522.51 (SE)	515059.20	560974.67
3	3517.9±	3508.74 (NW) 3508.74 (SW)	3508.54 (SE)	514944.04	561225.00
4	3513.9±	3505.05 (NW)	3504.85 (SE)	514904.76	561296.36
5	3501.5±	3492.16 (NW) 3492.16 (SW)	3491.96 (SE)	514744.01	561476.16

SANITARY SEWER MANHOLE SCHEDULE

MH #	TMH	INV IN	INV OUT	NORTHING	EASTING
6A	3480.2±		3470.77 (SE)	514475.15	561703.10
6	3495.4±	3485.35 (NW)	3485.15 (SE)	514675.18	561553.15
7	3468.4±	3459.20 (NW)	3459.00 (SE)	514314.10	561823.82
8	3452.1±	3443.96 (NW)	3443.76 (SW)	514103.65	562064.60
9	3547.5±		3538.39 (SW)	514581.05	560728.04
10	3538.9±	3523.17 (NE)	3522.97 (SE)	514364.69	560629.38
11	3524.8±	3509.65 (NW) 3509.65 (NE)	3509.45 (SE)	514256.84	560873.18
12	3512.1±	3498.01 (NW)	3497.81 (E)	514161.98	561024.60
13	3501.9±	3488.49 (W) 3488.49 (N)	3488.29 (E)	514116.78	561162.98
14	3484.7±	3472.73 (W)	3472.53 (SE)	514031.30	561390.69

SANITARY SEWER MANHOLE SCHEDULE

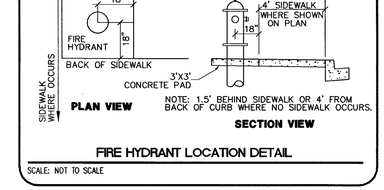
MH #	TMH	INV IN	INV OUT	NORTHING	EASTING
15	3481.3±	3469.16 (NW) 3469.16 (NE)	3468.96 (SE)	514003.25	561435.19
16	3478.4±	3466.24 (NW)	3466.04 (SE)	513980.56	561471.19
17	3466.3±	3455.18 (NW)	3454.98 (SE)	513851.30	561581.11
18	3461.5±	3450.68 (NW)	3450.48 (SE)	513808.36	561632.70
19	3459.0±	3448.02 (NW) 3448.02 (NE)	3447.82 (SE)	513792.11	561667.91
20	3450.5±	3436.50 (NW)	3436.30 (NE)	513713.06	561839.20
21	3533.3±		3523.18 (NE)	514611.05	561041.70
22	3533.5±		3523.54 (SW)	514508.74	560990.40
23	3503.0±	3495.32 (SW)	3495.12 (NE)	514662.93	561403.67
24	3509.6±		3501.70 (NE)	514398.35	561267.66
25	3508.2±		3500.43 (S)	514325.39	561231.52
26	3482.0±		3474.72 (SW)	514477.42	561657.18
27	3483.2±	3474.24 (NE)	3474.04 (SW)	514440.64	561625.89
28	3485.7±	3472.62 (NE)	3472.42 (S)	514314.62	561560.42
29	3484.0±	3471.23 (N)	3471.03 (SW)	514123.33	561505.76
32	3461.0±	3452.37 (N)	3452.17 (SW)	513974.74	561755.95
33	3449.5±	3431.90 (SW) 3431.90 (NE)	3431.70 (SE)	513943.15	561971.98



NORTH

80' 0' 40' 80' 160'

SCALE: 1" = 80'



NOTE: 1.5' BEHIND SIDEWALK OR 4' FROM BACK OF CURB WHERE NO SIDEWALK OCCURS.

FIRE HYDRANT LOCATION DETAIL

SCALE: NOT TO SCALE

FIRE DEPT. AS TO DATA AND REQUIREMENTS
FIRE FLOW CALCULATIONS:

FIRE FLOW REQUIREMENTS IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE:	<4,800 SQ.FT. (MAX)
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQ. FT.
BUILDING HEIGHT:	35 FT. (MAX)
NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V-B
OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
FULL AUTOMATIC SPRINKLER SYSTEM:	(YES) / NO

REVIEWED BY: _____ DATE: _____

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

FIRE FLOW 1,500 AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

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

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

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.

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

SEWER CONNECTION NOTE

THIS PROJECT IS CONNECTING TO A SEWER THAT IS CURRENTLY SHOWN ON ANOTHER PLAN SET. THAT CONNECTION MAY OR MAY NOT BE CONSTRUCTED AT THIS TIME. THE DISTRICT WILL NOT FINAL OR ACCEPT ANY SEWER INFRASTRUCTURE FOR THIS PROJECT UNTIL ALL SEWER DOWNSTREAM OF YOUR POINT OF CONNECTION HAS BEEN FINALED AND ACCEPTED BY THE DISTRICT. IF THE SEWER INFRASTRUCTURE DOWNSTREAM OF YOUR POINT OF CONNECTION IS ABANDONED OR NOT COMPLETED FOR ANY REASON, YOU WILL BE REQUIRED TO CONSTRUCT ANY ADDITIONAL MAIN LINE SEWER TO AN EXISTING SEWER THAT IS ACCEPTED AND HAS THE CAPACITY TO SERVE YOUR PROJECT AND PROVIDE ANY NECESSARY EASEMENTS FOR THE INFRASTRUCTURE.

PRV NOTE:

VERIFIED LOT 1-7, 44-63 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 BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

ESTIMATE WASTEWATER DEMAND

116 UNITS X 250 GPD/UNIT = 29,000 GPD
TOTAL AVERAGE CONTRIBUTION = 29,000 GPD = 0.029 MGD
TOTAL PEAK FLOW = 0.029 MGD X 3.3 (PEAK FACTOR) = 0.0957 MGD
PEAK WET FLOW = 0.0957 MGD X 1.25 = 0.1196 MGD

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — GIA L. NGUYEN — No. 14918 — PROFESSIONAL ENGINEER — DATE: 12/05/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	CGW APP	DATE

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:02:34

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

F:\Projects\500\5523-A063\DWG\Production\A063-MUT.dwg
Quangvinh Nguyen

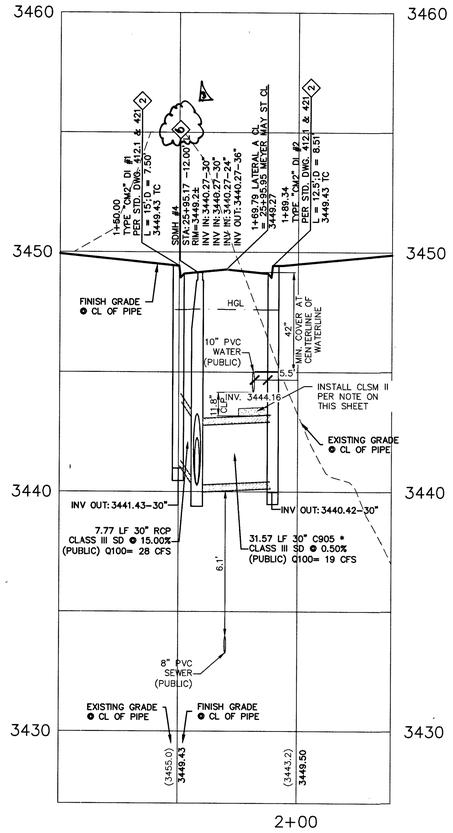
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

MASTER UTILITY PLAN

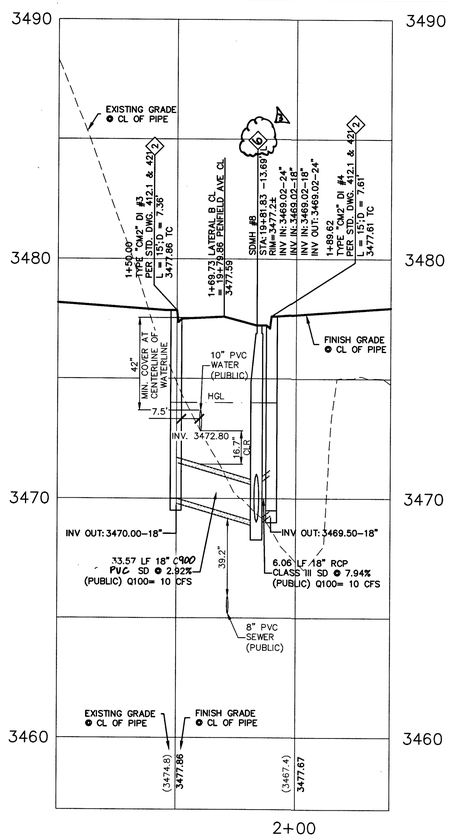
DRAWING MU
36 OF 54 SHTS

PROJ#:135633A GS:137-33-SE



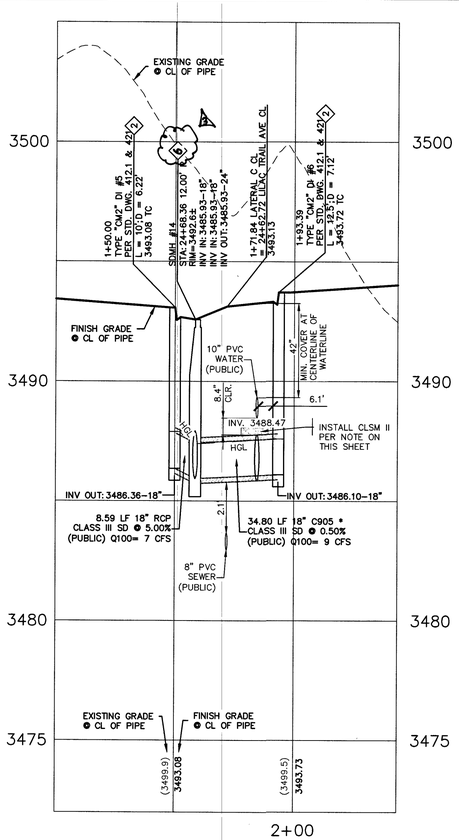
LATERAL A (A)

VERT.: 1" = 3'
HOR. : 1" = 30'



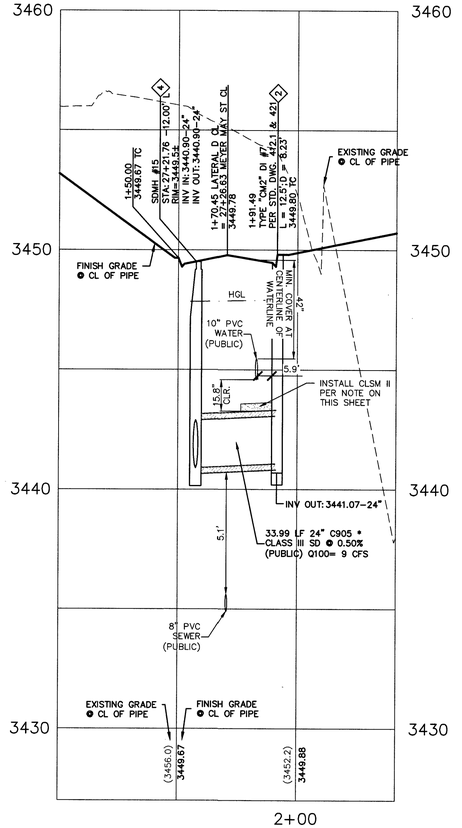
LATERAL B (B)

VERT.: 1" = 3'
HOR. : 1" = 30'



LATERAL C (C)

VERT.: 1" = 3'
HOR. : 1" = 30'



LATERAL D (D)

VERT.: 1" = 3'
HOR. : 1" = 30'

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS. CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.)

NOTE

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY 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.

NOTES 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.

* FOR C905 SEE SHEET LAT FOR TRENCHING & BEDDING DETAILS.

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 REGULATIONS MAY APPLY PER UDACS 2.22.

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

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.

STORM DRAIN CONSTRUCTION NOTES

1. CONNECT TO EXSITING STORM DRAIN.
2. CONSTRUCT MODIFIED TYPE "CM2" PER STD DWG 412.1 & 421. SEE PLAN PER SIZE.
3. CONSTRUCT TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.1.
4. CONSTRUCT 60" TYPE I STORM DRAIN MANHOLE PER STD. DWG 403.
6. CONSTRUCT 18" TYPE II STORM DRAIN MANHOLE PER STD. DWG 405.2.

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136633 FIRST APPROVED DATE: 12/20/18

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — LIA D. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18

REV	DATE	DESCRIPTION	DRAWN APP	CHECK APP
1	07/08/19	REV. SDMH NOTE	KW	GDN

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 10:36:26

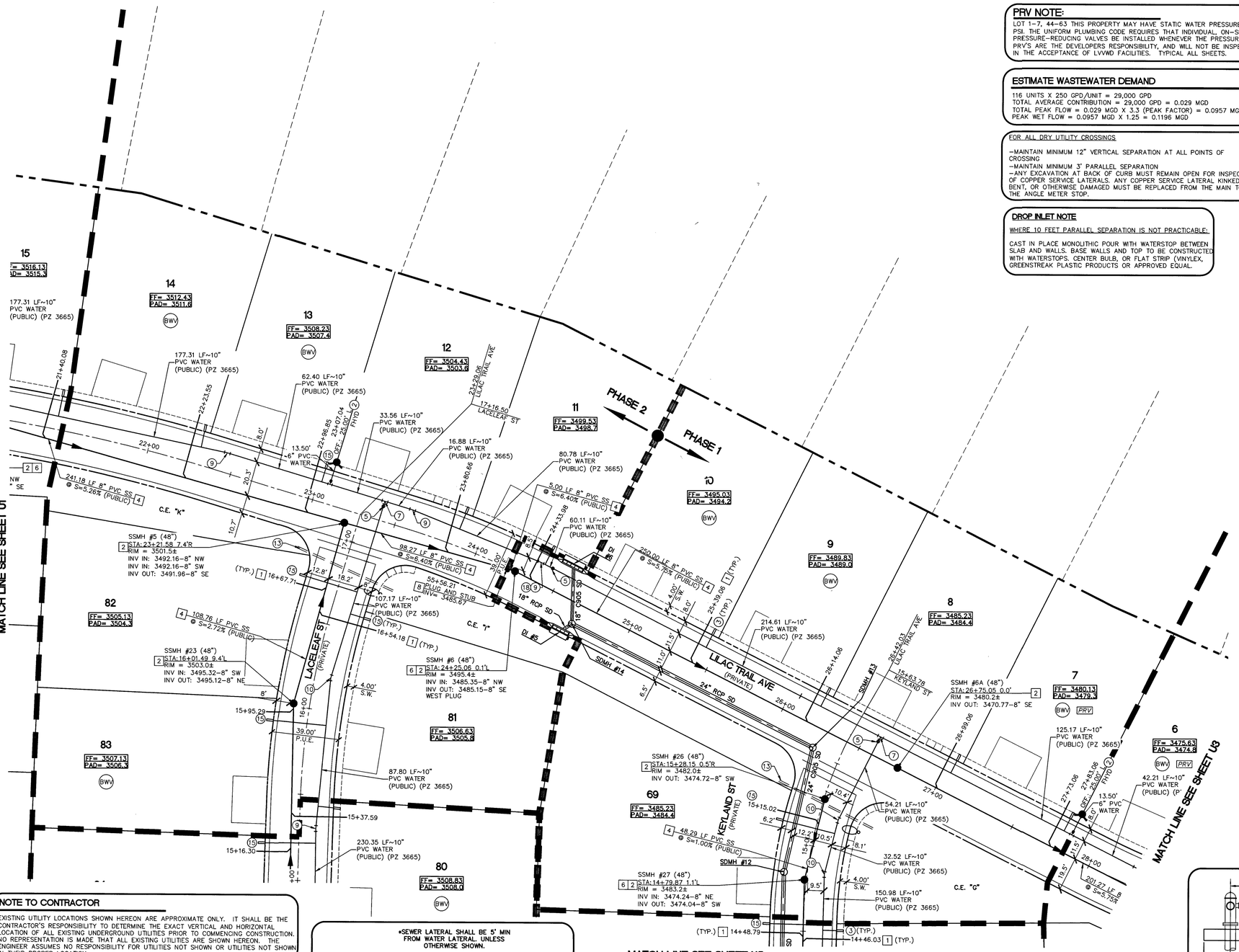
GCW ENGINEERS\SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\5001\5523-A063\DWG\Production\A063-LAT.dwg
Luky Roxana Lopez

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
STORM DRAIN LATERALS

DRAWING
LAT
35 OF 54 SHTS

PRO.#:136633A QS:137-33-SE



PRV NOTE:

LOT 1–7, 44–63 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 BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. TYPICAL ALL SHEETS.

ESTIMATE WASTEWATER DEMAND

116 UNITS X 250 GPD/UNIT = 29,000 GPD
TOTAL AVERAGE CONTRIBUTION = 29,000 GPD = 0.029 MGD
TOTAL PEAK FLOW = 0.029 MGD X 3.3 (PEAK FACTOR) = 0.0957 MGD
PEAK WET FLOW = 0.0957 MGD X 1.25 = 0.1196 MGD

FOR ALL DRY UTILITY CROSSINGS

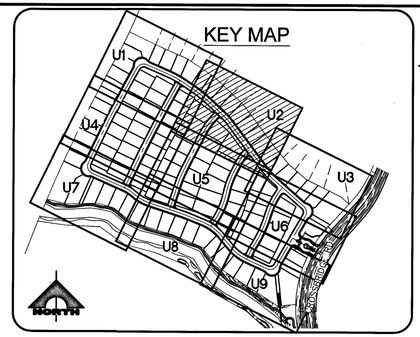
–MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
–MAINTAIN MINIMUM 3' PARALLEL SEPARATION
–ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT, OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE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

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS. CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.

KEY MAP



NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

WATER CONSTRUCTION NOTES

1. REMOVE 2" BLOW–OFF & CAP AND CONNECT TO EXISTING 12" WATER.
2. INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
3. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1
4. INSTALL CAP & 2" BLOW–OFF PER UDACS PLATE NO. 36. (SIZE PER PLAN).
5. INSTALL GATE VALVE (SIZE PER PLAN).
6. INSTALL 10" X 8" TEE PER UDACS PLATE NO. 31.
7. INSTALL 10" X 10" TEE PER UDACS PLATE NO. 31.
8. INSTALL 12" X 10" REDUCER.
9. INSTALL 10" 5° BEND PER UDACS PLATE NO. 31.
10. INSTALL 10" 11.25° BEND PER UDACS PLATE NO. 31.
11. INSTALL 10" 45° BEND PER UDACS PLATE NO. 31.
12. INSTALL 10" 45° VERTICAL BEND PER UDACS PLATE NO. 31
13. INSTALL (1) 4" SDR–35 PVC & (2) 2" SDR–35 PVC IRRIGATION SLEEVES.
14. INSTALL 1–1/2" IRRG METER W/ 1–1/2" RPPA PER UDACS PLATE NO. 4 & 8 AND METER W/ CURB STOP PER DETAIL "L" SHEET DT3.
15. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3
16. INSTALL 1–1/2" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3, ADD ADAPTER FITTINGS TO ACCOMMODATE THE 1–1/2" PUBLIC LATERAL AND THE 1–1/2" PRIVATE LATERAL.
17. INSTALL 10" 5° VERTICAL BEND PER UDACS PLATE NO. 31.
18. RESTRAINED FITTING

SEWER CONSTRUCTION NOTES

1. INSTALL 4" PVC SEWER LATERAL PER SD–22 & SD–25.
2. INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD–1A, SD–1B, AND SD–9 WITH PRECAST BASE, SINGLE 24" LID.
3. EXISTING SEWER TO BE REMOVED.
4. INSTALL 8" SANITARY SEWER PER SD–17.
5. EXISTING SANITARY SEWER TO BE REMOVED.
6. CORROSION PROTECTION PER DCSWCS 3.16.8 & 4.9.9.
7. CONNECT TO EXISTING SEWER MANHOLE.
8. STUB AND CAP PER DCSWCS SECTION 2.2.5.
9. INSTALL 4" C900 SEWER LATERAL PER SD–22 & SD–25. 6" MINIMUM VERTICAL SEPARATION.

FIRE DEPT. AS TO DATA AND REQUIREMENTS FIRE FLOW CALCULATIONS:

FIRE FLOW REQUIREMENTS IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE:	<4,800 SQ.FT. (MAX)
LARGEST AREA BETWEEN 4–HOUR AREA SEPARATION WALLS:	N/A SQ. FT.
BUILDING HEIGHT:	35 FT. (MAX)
NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V–B
OCCUPANCY; FULL AUTOMATIC SPRINKLER SYSTEM:	SINGLE FAMILY RESIDENTIAL (YES) / NO

REVIEWED BY: _____ DATE: _____

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.

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

ALL ONSITE STORM DRAINS AND ASSOCIATED STORM FACILITIES ARE PRIVATELY 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.

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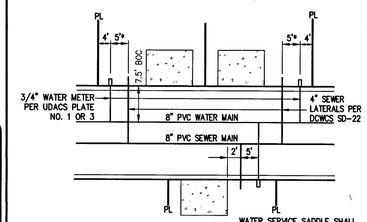
Call 811 OR 1-800-227-2600

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

*SEWER LATERAL SHALL BE 5' MIN FROM WATER LATERAL UNLESS OTHERWISE SHOWN.



TYPICAL UTILITY LOCATION
NOT TO SCALE

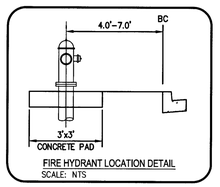
WATER SERVICE SADDLE SHALL BE 18" MIN FROM ANY OTHER SERVICE SADDLE, PIPE JOINT, VALVE, OR FITTING.

WATER AND SEWER NOTES

1. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED PER UDACS SECTION 2.17.
3. INSTALL PIPE LOCATOR RIBBON PER UDACS PLATE NO. 15.
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. MIN. 12" VERTICAL CLEARANCE BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.06
6. MIN. 6" VERTICAL CLEARANCE REQUIRED BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06
7. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE No. 15

NOTES (UTILITIES):

WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY–EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (SEE TYPICAL WATER AND SEWER SERVICE LOCATION DETAIL ON SHEET "MUT").



FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 AT 20 PSI RESIDUAL

DATE 12/17/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — GIA D. NGUYEN — No. 14911 — Exp. 12/31/2019 — CIVIL

DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP

PROJECT NO. 5523–A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12–06–18
PLOT TIME: 10:36:48

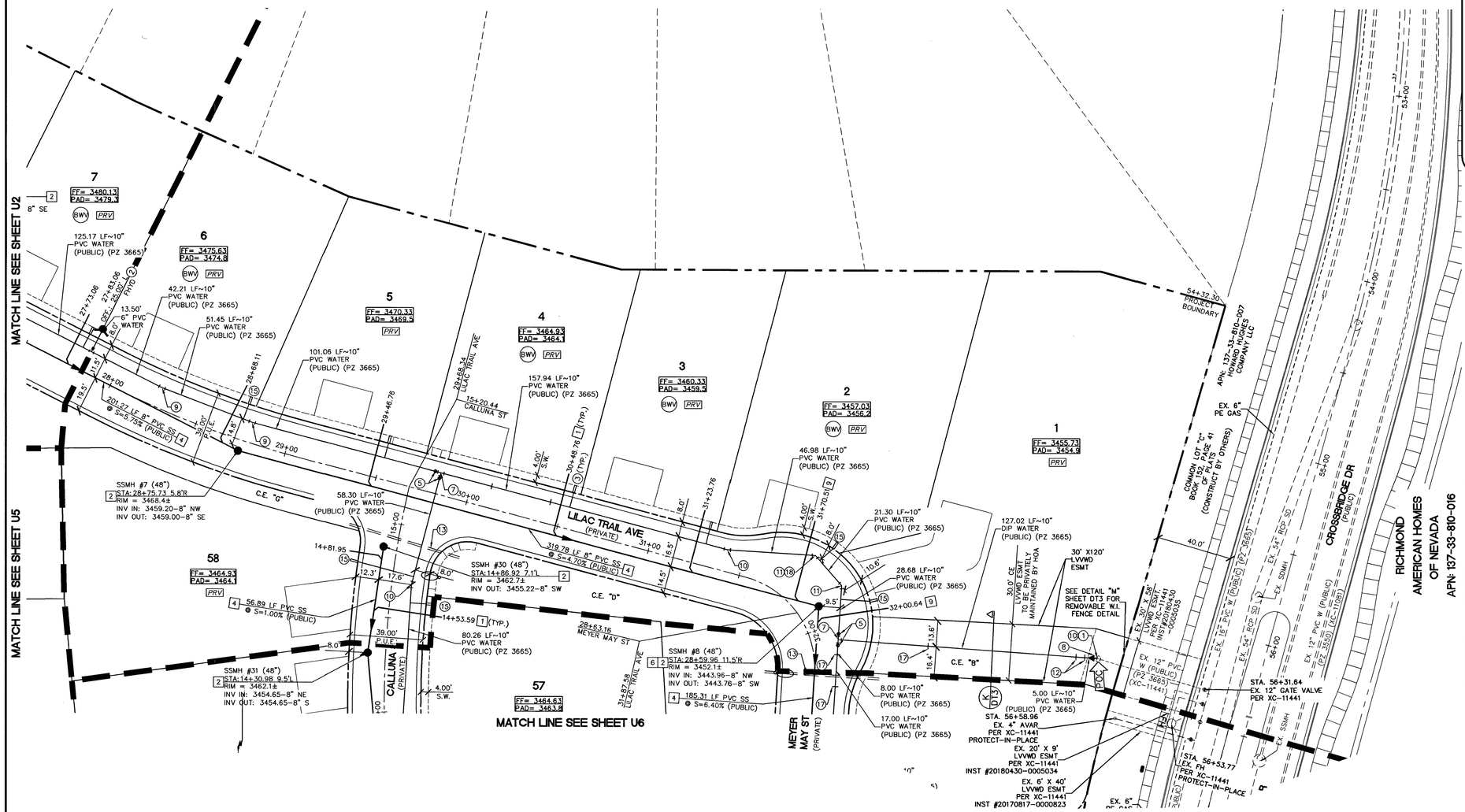
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

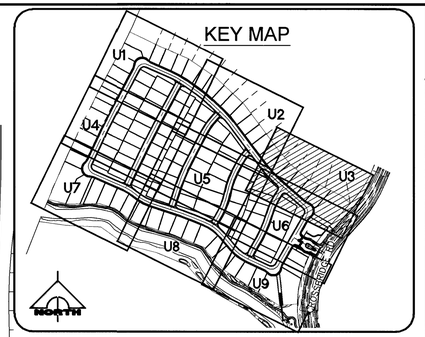
F:\Projects\500\5523–A063\DWG\Production \A063–UT.dwg
Luky Roxana Lopez

PARDEE HOMES
SUMMERLIN VILLAGE 24 – PARCEL I
UTILITY PLAN 2

DRAWING
U2
38 OF 54 SHTS

PROJ#:135633A QS:137-33-SE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

WATER CONSTRUCTION NOTES

1. REMOVE 2" BLOW-OFF & CAP AND CONNECT TO EXISTING 12" WATER.
2. INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
3. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1
4. INSTALL CAP & 2" BLOW-OFF PER UDACS PLATE NO. 36. (SIZE PER PLAN).
5. INSTALL GATE VALVE (SIZE PER PLAN).
6. INSTALL 10" X 8" TEE PER UDACS PLATE NO. 31.
7. INSTALL 10" X 10" TEE PER UDACS PLATE NO. 31.
8. INSTALL 12" X 10" REDUCER.
9. INSTALL 10" 5° BEND PER UDACS PLATE NO. 31.
10. INSTALL 10" 11.25° BEND PER UDACS PLATE NO. 31.
11. INSTALL 10" 45° BEND PER UDACS PLATE NO. 31.
12. INSTALL 10" 45° VERTICAL BEND PER UDACS PLATE NO. 31
13. INSTALL (1) 4" SDR-35 PVC & (2) 2" SDR-35 PVC IRRIGATION SLEEVES.
14. INSTALL 1-1/2" IRRG METER W/ 1-1/2" RPPA PER UDACS PLATE NO. 4 & 8 AND METER W/ CURB STOP PER DETAIL "L" SHEET DT3.
15. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3
16. INSTALL 1-1/2" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3, ADD ADAPTER FITTINGS TO ACCOMMODATE THE 1-1/2" PUBLIC LATERAL AND THE 1-1/2" PRIVATE LATERAL.
17. INSTALL 10" 5° VERTICAL BEND PER UDACS PLATE NO. 31.
18. RESTRAINED FITTING

SEWER CONSTRUCTION NOTES

1. INSTALL 4" PVC SEWER LATERAL PER SD-22 & SD-25.
2. INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD-1A, SD-1B, AND SD-9 WITH PRECAST BASE, SINGLE 24" LID.
3. EXISTING SEWER TO BE REMOVED.
4. INSTALL 8" SANITARY SEWER PER SD-17.
5. EXISTING SANITARY SEWER TO BE REMOVED.
6. CORROSION PROTECTION PER DCSWCS 3.16.8 & 4.9.9.
7. CONNECT TO EXISTING SEWER MANHOLE.
8. STUB AND CAP PER DCSWCS SECTION 2.2.5.
9. INSTALL 4" C900 SEWER LATERAL PER SD-22 & SD-25. 6" MINIMUM VERTICAL SEPARATION.

FIRE DEPT. AS TO DATA AND REQUIREMENTS FIRE FLOW CALCULATIONS:

FIRE FLOW REQUIREMENTS IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE:	<4,800 SQ.FT. (MAX)
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQ. FT.
BUILDING HEIGHT:	35 FT. (MAX)
NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V-B
OCCUPANCY: FULL AUTOMATIC SPRINKLER SYSTEM:	SINGLE FAMILY RESIDENTIAL (YES) / NO

REVIEWED BY: _____ DATE: _____

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.

LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

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

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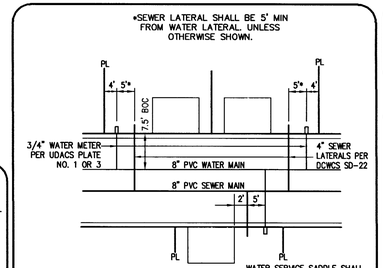
FAST — Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.



TYPICAL UTILITY LOCATION — NOT TO SCALE

WATER SERVICE SADDLE SHALL BE 18" MIN FROM ANY OTHER SERVICE SADDLE, PIPE JOINT, VALVE, OR FITTING.

ESTIMATE WASTEWATER DEMAND

116 UNITS X 250 GPD/UNIT = 29,000 GPD
TOTAL AVERAGE CONTRIBUTION = 29,000 GPD = 0.029 MGD
TOTAL PEAK FLOW = 0.029 MGD X 3.3 (PEAK FACTOR) = 0.0957 MGD
PEAK WET FLOW = 0.0957 MGD X 1.25 = 0.1196 MGD

PRV NOTE:

LOT 1-7, 44-63 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 BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. TYPICAL ALL SHEETS.

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7. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE No. 15

FOR ALL DRY UTILITY CROSSINGS

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NOTES (UTILITIES):

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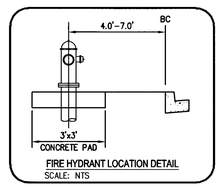


FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 AT 20 PSI RESIDUAL — DATE 12/17/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA D NGUYEN — Exp. 12/31/2019 — CIVIL — No. 14917

DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN. APP	DATE	CCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:58:24

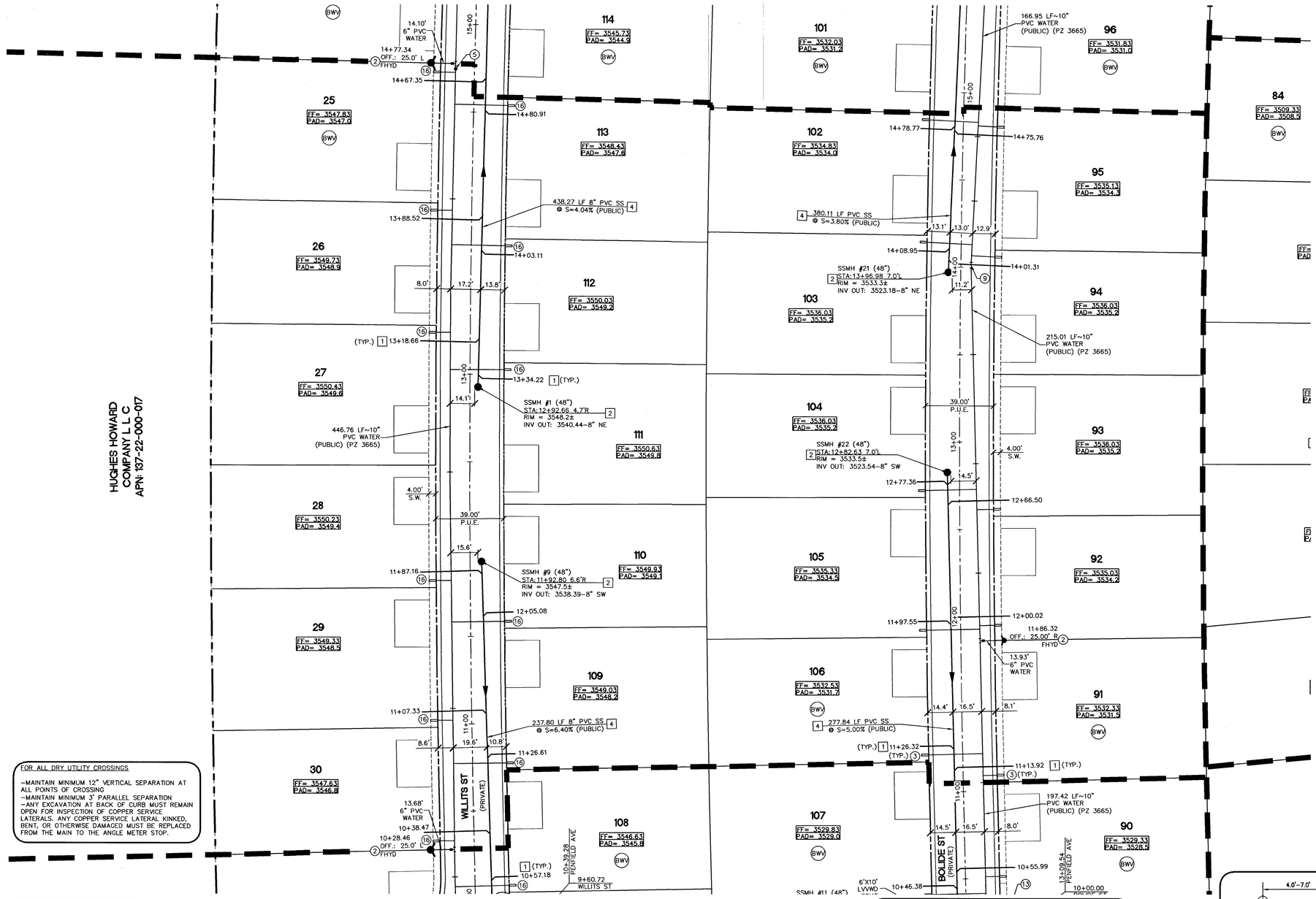
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\500\5523-A063\DWG\Production\A063-UT.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
UTILITY PLAN 3

DRAWING U3
39 OF 54 SHTS

PROJ.#:135633A QS:137-33-SE



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OR
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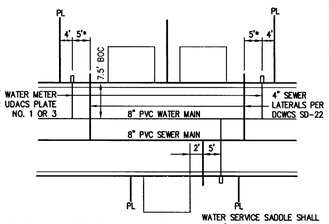
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

•SEWER LATERAL SHALL BE 5' MIN FROM WATER LATERAL, UNLESS OTHERWISE SHOWN.



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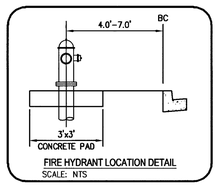

FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

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CITY OF LAS VEGAS BENCHMARK NO. D368, US.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

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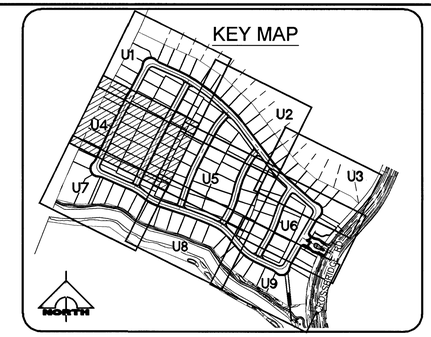
APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 AT 20 PSI RESIDUAL
DATE 12/17/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# 18–02530 | CLV DWG# 107Y5092



NORTH
30' 0' 15' 30' 60'
SCALE: 1" = 30'

WATER CONSTRUCTION NOTES

1. REMOVE 2" BLOW–OFF & CAP AND CONNECT TO EXISTING 12" WATER.
2. INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
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4. INSTALL CAP & 2" BLOW–OFF PER UDACS PLATE NO. 36. (SIZE PER PLAN).
5. INSTALL GATE VALVE (SIZE PER PLAN).
6. INSTALL 10" X 8" TEE PER UDACS PLATE NO. 31.
7. INSTALL 10" X 10" TEE PER UDACS PLATE NO. 31.
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11. INSTALL 10" 45° BEND PER UDACS PLATE NO. 31.
12. INSTALL 10" 45° VERTICAL BEND PER UDACS PLATE NO. 31
13. INSTALL (1) 4" SDR–35 PVC & (2) 2" SDR–35 PVC IRRIGATION SLEEVES.
14. INSTALL 1–1/2" IRRG METER W/ 1–1/2" RPPA PER UDACS PLATE NO. 4 & 8 AND METER W/ CURB STOP PER DETAIL "L" SHEET DT3.
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NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V–B
OCCUPANCY; FULL AUTOMATIC SPRINKLER SYSTEM:	SINGLE FAMILY RESIDENTIAL (YES) / NO

REVIEWED BY: _____ DATE: _____

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

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STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 14918 — DAVID NGUYEN — Exp. 12/31/2019 — CIVIL

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP	DATE
							12/05/18

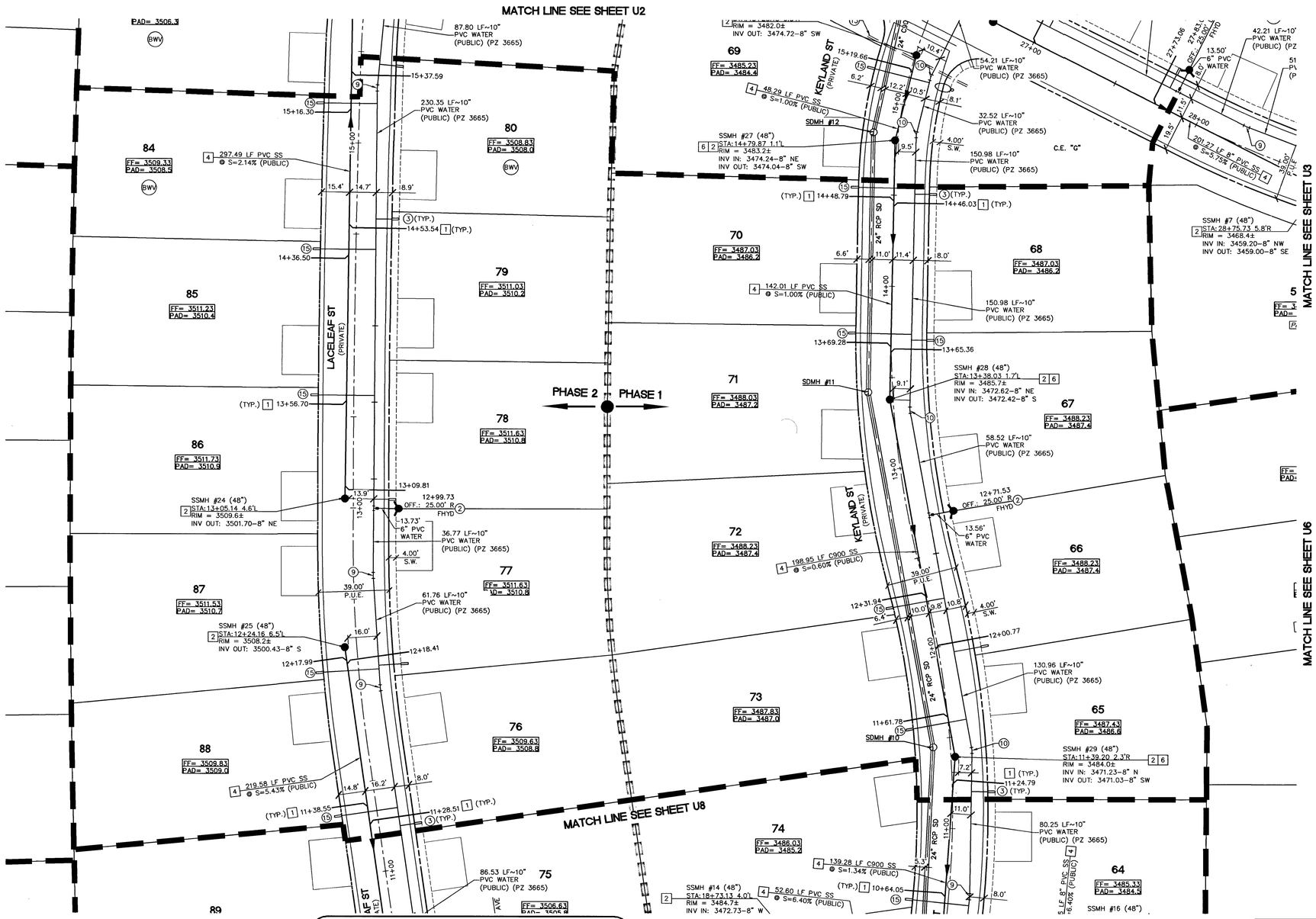
PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:59:08

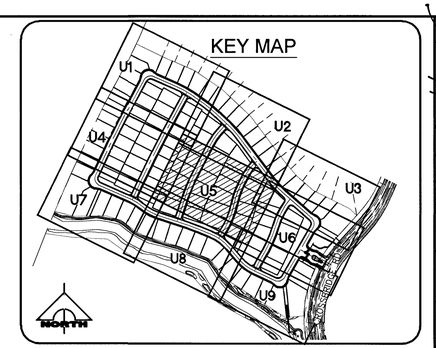
GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\5500\5523-A063\DWG\Production\A063-UT.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
UTILITY PLAN 4

DRAWING U4
40 OF 54 SHTS

PRO.#:135633A QS:137.33-SE





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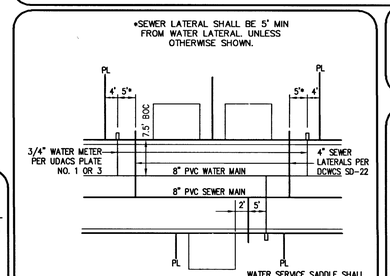

TYPICAL UTILITY LOCATION
NOT TO SCALE

PRV NOTE:

LOT 1-7, 44-63 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 BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. TYPICAL ALL SHEETS.

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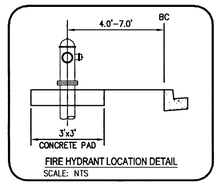
ESTIMATE WASTEWATER DEMAND

116 UNITS X 250 GPD/UNIT = 29,000 GPD
TOTAL AVERAGE CONTRIBUTION = 29,000 GPD = 0.029 MGD
TOTAL PEAK FLOW = 0.029 MGD X 3.3 (PEAK FACTOR) = 0.0957 MGD
PEAK WET FLOW = 0.0957 MGD X 1.25 = 0.1196 MGD

NOTES (UTILITIES):

WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (SEE TYPICAL WATER AND SEWER SERVICE LOCATION DETAIL ON SHEET "MUT").



FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 AT 20 PSI RESIDUAL

DATE 12/17/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — GIA B. NGUYEN — No. 14918 — CIVIL — 12/31/2019

DATE	DESCRIPTION	REV	DATE
12/06/18			

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:59:25

GCW ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\5xx\5523-A063\DWG\Production\A063-UT.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
UTILITY PLAN 5

DRAWING U5
41 OF 54 SHTS

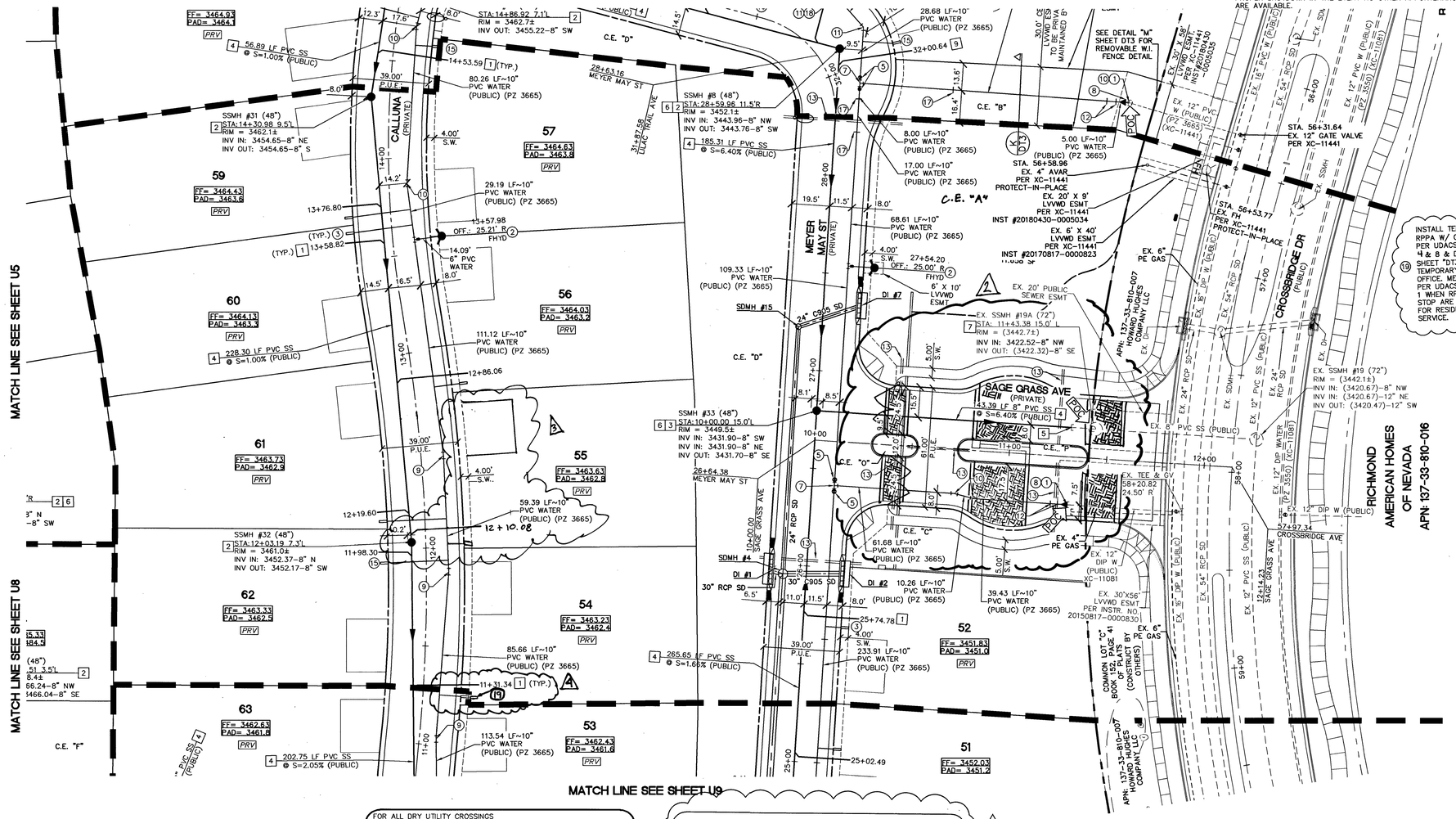
PRO.#:135633A QS:137.33-SE

MATCH LINE SEE SHEET U3

MATCH LINE SEE SHEET U5

MATCH LINE SEE SHEET U8

MATCH LINE SEE SHEET U9



DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:

CAST IN PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS. CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.

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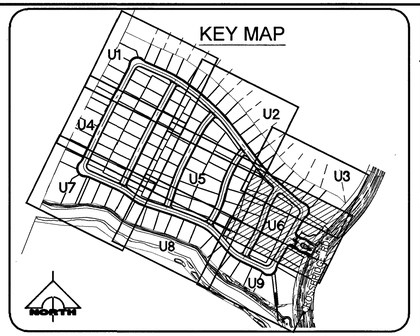

NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

WATER CONSTRUCTION NOTES

1. REMOVE 2" BLOW–OFF & CAP AND CONNECT TO EXISTING 12" WATER.
2. INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
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13. INSTALL (1) 4" SDR–35 PVC & (2) 2" SDR–35 PVC IRRIGATION SLEEVES.
14. INSTALL 1–1/2" IRRG METER W/ 1–1/2" RPPA PER UDACS PLATE NO. 4 & 8 AND METER W/ CURB STOP PER DETAIL "L" SHEET DT3.
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16. INSTALL 1–1/2" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3, ADD ADAPTER FITTINGS TO ACCOMMODATE THE 1–1/2" PUBLIC LATERAL AND THE 1–1/2" PRIVATE LATERAL.
17. INSTALL 10" 5° VERTICAL BEND PER UDACS PLATE NO. 31.
18. RESTRAINED FITTING

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NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V–B
OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
FULL AUTOMATIC SPRINKLER SYSTEM:	(YES) / NO

REVIEWED BY: _____ DATE: _____

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

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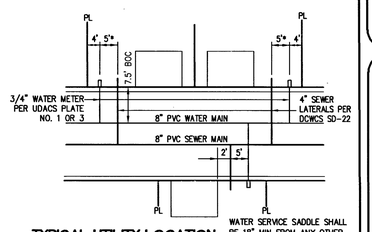

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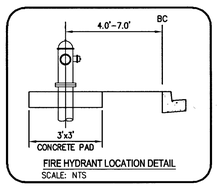

FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

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UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18
FIRE FLOW 1,500 AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA DI NGUYEN — No. 14918 — DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	CGW APP
1	08/27/19	ADD TEMP. RPPA			
2	02/27/19	RELOCATED WATER & SEWER LATERALS & REV DWY		10/8/19	CGW

PROJECT NO. 5523–A063
DESIGN: GN
DRAWN: GN
CHECK: GDN
PLOT DATE: 12–06–18
PLOT TIME: 08:59:46

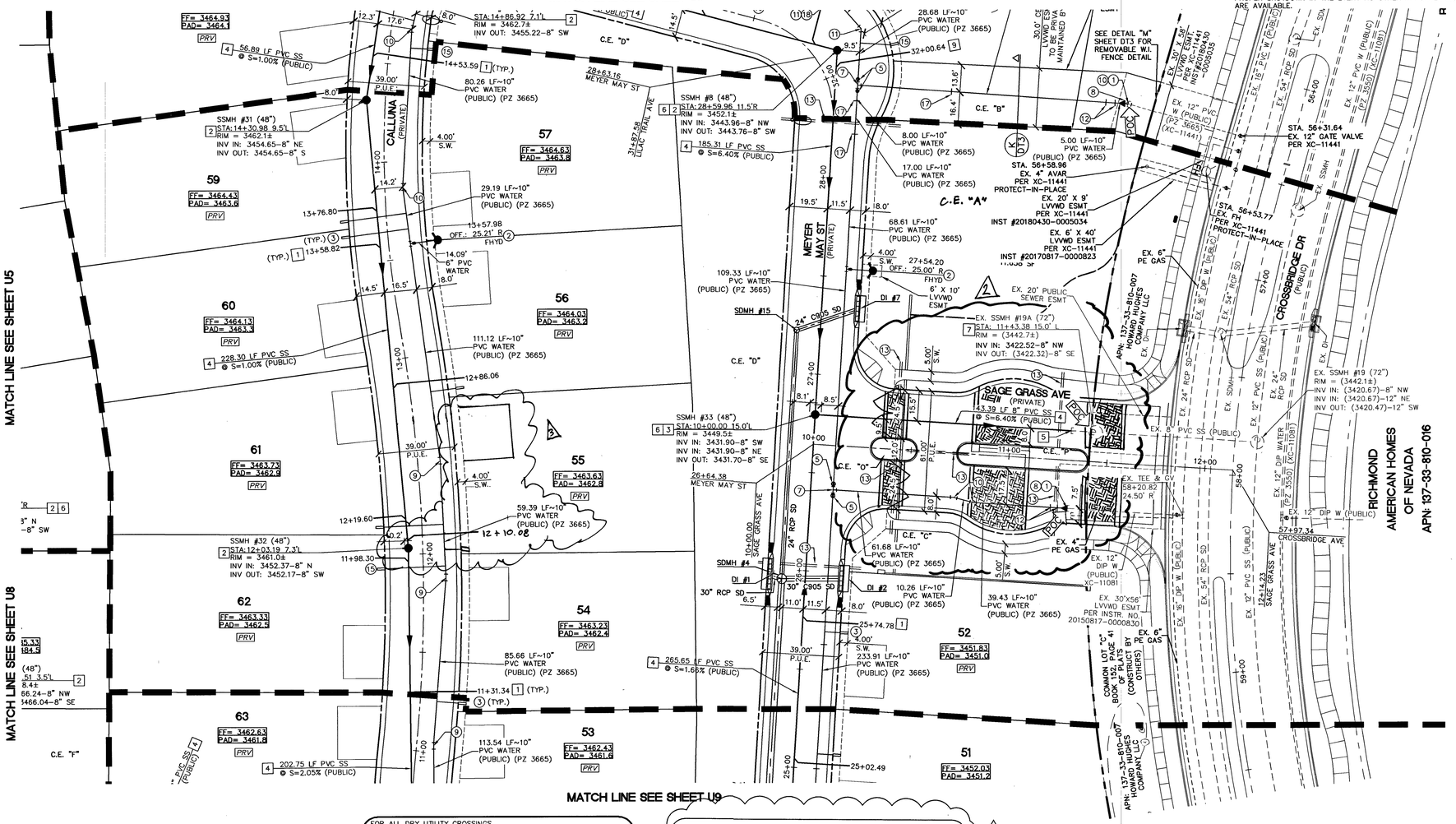
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\500\5523–A063\DWG\Production\A063–UT.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 – PARCEL I
UTILITY PLAN 6

DRAWING U6
42 OF 54 SHTS

PROJ#:135633A QS:137-33-SE



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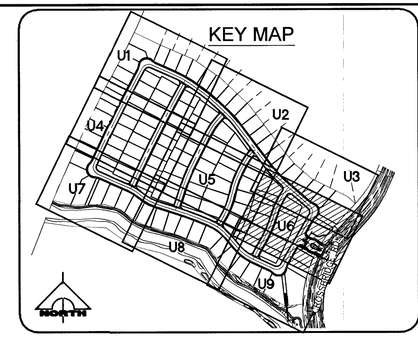
KEY MAP



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NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V-B
OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
FULL AUTOMATIC SPRINKLER SYSTEM:	(YES) / NO

REVIEWED BY: _____ DATE: _____

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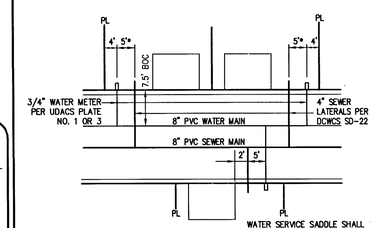
*SEWER LATERAL SHALL BE 5' MIN FROM WATER LATERAL, UNLESS OTHERWISE SHOWN.



TYPICAL UTILITY LOCATION — NOT TO SCALE

WATER SERVICE SADDLE SHALL BE 18" MIN FROM ANY OTHER SERVICE SADDLE, PIPE JOINT, VALVE, OR FITTING.

PRV NOTE:

LOT 1-7, 44-63 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 BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. TYPICAL ALL SHEETS.

WATER AND SEWER NOTES

1. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22.
2. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED PER UDACS SECTION 2.17.
3. INSTALL PIPE LOCATOR RIBBON PER UDACS PLATE NO. 15.
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. MIN. 12" VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.06
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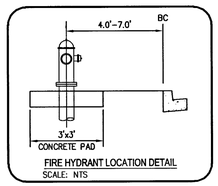
7. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE No. 15

ESTIMATE WASTEWATER DEMAND

116 UNITS X 250 GPD/UNIT = 29,000 GPD
TOTAL AVERAGE CONTRIBUTION = 29,000 GPD = 0.029 MGD
TOTAL PEAK FLOW = 0.029 MGD X 3.3 (PEAK FACTOR) = 0.0957 MGD
PEAK WET FLOW = 0.0957 MGD X 1.25 = 0.1196 MGD

NOTES (UTILITIES):

WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (SEE TYPICAL WATER AND SEWER SERVICE LOCATION DETAIL ON SHEET "MUT").



FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

L# 18-02530 | CLV DWG# 107Y5092

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:59:46

DATE: 12/06/18
DIA D. NGUYEN No. 14918 PROFESSIONAL ENGINEER STATE OF NEVADA
Exp. 12/31/2019

REV	DATE	DESCRIPTION
7	12/06/18	CCW APP
6	10.3.18	CCW SS
5	9.7.18	AGEN APP
4	8.30.18	AGEN DWY
3	7.9.18	RELOCATED WATER & SEWER LATERALS & REV DWY
2	02/27/18	
1		

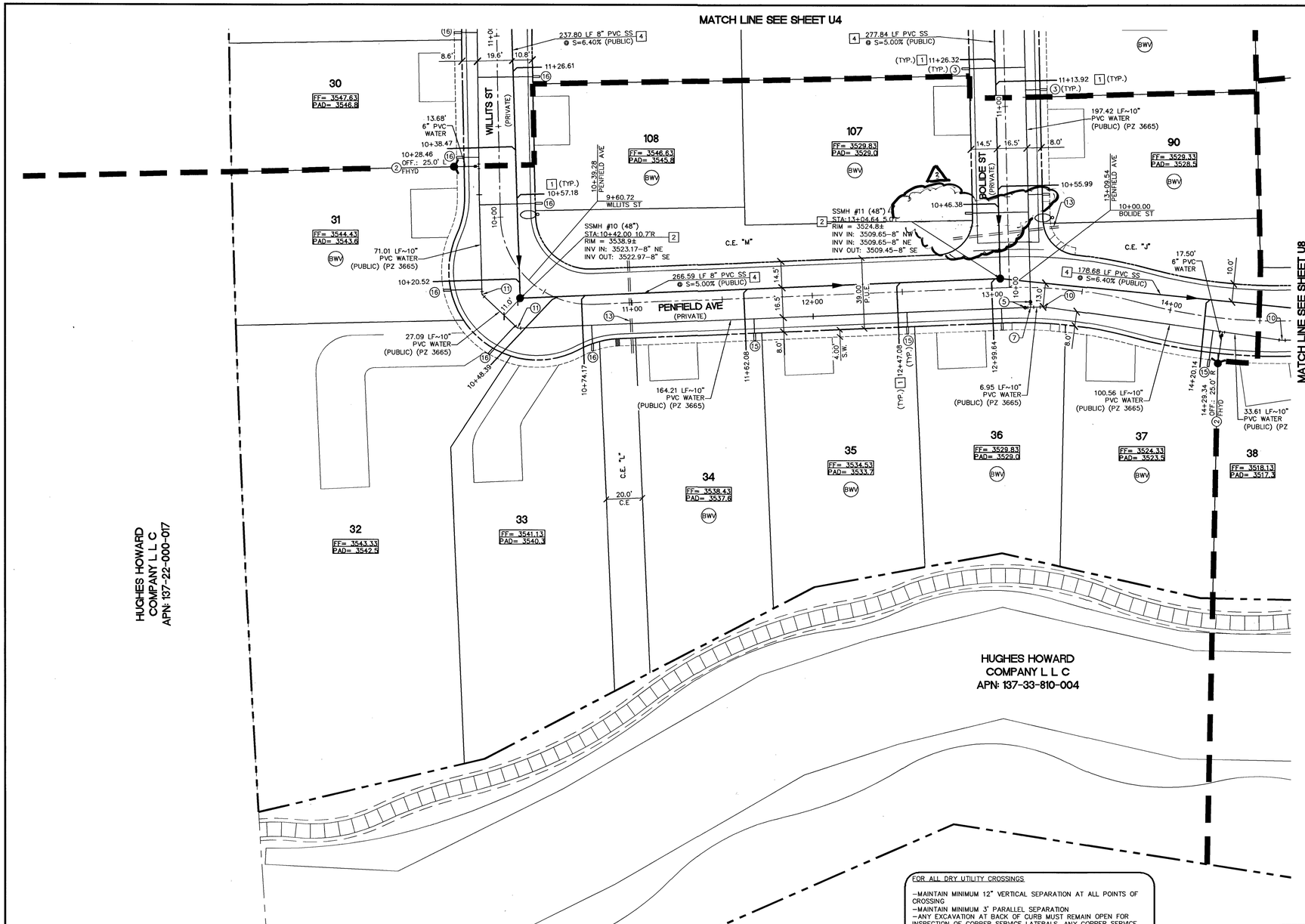
GCW
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

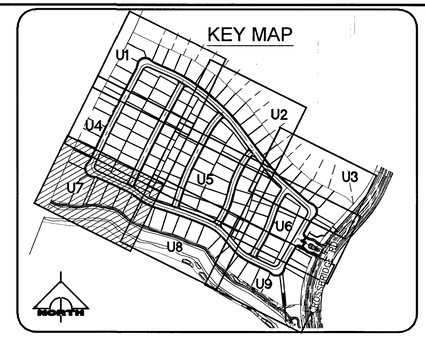
F:\Projects\500\5523-A063\DWG\Production\A063-UT.dwg
Quangvinh Nguyen

PARDEE HOMES
SUMMERLIN VILLAGE 24 - PARCEL I
UTILITY PLAN 6

DRAWING U6
42 OF 54 SHTS

PRO.#:135633A QS:137-33-SE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

WATER CONSTRUCTION NOTES

1. REMOVE 2" BLOW–OFF & CAP AND CONNECT TO EXISTING 12" WATER.
2. INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
3. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 1
4. INSTALL CAP & 2" BLOW–OFF PER UDACS PLATE NO. 36. (SIZE PER PLAN).
5. INSTALL GATE VALVE (SIZE PER PLAN).
6. INSTALL 10" X 8" TEE PER UDACS PLATE NO. 31.
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9. INSTALL 10" 5° BEND PER UDACS PLATE NO. 31.
10. INSTALL 10" 11.25° BEND PER UDACS PLATE NO. 31.
11. INSTALL 10" 45° BEND PER UDACS PLATE NO. 31.
12. INSTALL 10" 45° VERTICAL BEND PER UDACS PLATE NO. 31
13. INSTALL (1) 4" SDR–35 PVC & (2) 2" SDR–35 PVC IRRIGATION SLEEVES.
14. INSTALL 1–1/2" IRRG METER W/ 1–1/2" RPPA PER UDACS PLATE NO. 4 & 8 AND METER W/ CURB STOP PER DETAIL "L" SHEET DT3.
15. INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3
16. INSTALL 1–1/2" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 3, ADD ADAPTER FITTINGS TO ACCOMMODATE THE 1–1/2" PUBLIC LATERAL AND THE 1–1/2" PRIVATE LATERAL.
17. INSTALL 10" 5° VERTICAL BEND PER UDACS PLATE NO. 31.
18. RESTRAINED FITTING

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1. INSTALL 4" PVC SEWER LATERAL PER SD–22 & SD–25.
2. INSTALL 48" DIA. SEWER MANHOLE PER DCSWCS SD–1A, SD–1B, AND SD–9 WITH PRECAST BASE, SINGLE 24" LID.
3. EXISTING SEWER TO BE REMOVED.
4. INSTALL 8" SANITARY SEWER PER SD–17.
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8. STUB AND CAP PER DCSWCS SECTION 2.2.5.
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FIRE DEPT. AS TO DATA AND REQUIREMENTS FIRE FLOW CALCULATIONS:

FIRE FLOW REQUIREMENTS IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE:	<4,800 SQ.FT. (MAX)
LARGEST AREA BETWEEN 4–HOUR AREA SEPARATION WALLS:	N/A SQ. FT.
BUILDING HEIGHT:	35 FT. (MAX)
NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V–B
OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
FULL AUTOMATIC SPRINKLER SYSTEM:	(YES) / NO

REVIEWED BY: _____ DATE: _____

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.

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

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

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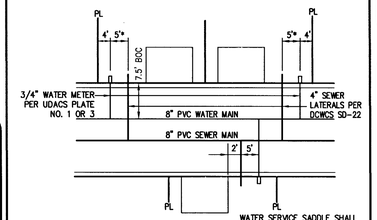
Call before you Dig — Avoid cutting underground utility lines. It's costly. Call 811 or 1-800-227-2600

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

*SEWER LATERAL SHALL BE 5' MIN FROM WATER LATERAL, UNLESS OTHERWISE SHOWN.



TYPICAL UTILITY LOCATION
NOT TO SCALE

PRV NOTE:

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FOR ALL DRY UTILITY CROSSINGS

–MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
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ESTIMATE WASTEWATER DEMAND

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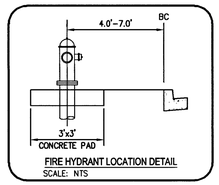

FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

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BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 AT 20 PSI RESIDUAL

DATE 12/17/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135633 FIRST APPROVED DATE: 12/20/18

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — GIA D. NGUYEN — No. 14931 — Exp. 12/31/2019 — CIVIL

DATE: 12/06/18

REV	DATE	DESCRIPTION	APPR	CHK
1	10-15-18	PER LVVWD	GDN	GDN
2	11-27-18	PER LVVWD	GDN	GDN
3	12-06-18	PER LVVWD	GDN	GDN

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:00:02

GCW ENGINEERS • SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523–A063\DWG\Production\A063–UT.dwg
Quangvinh Nguyen

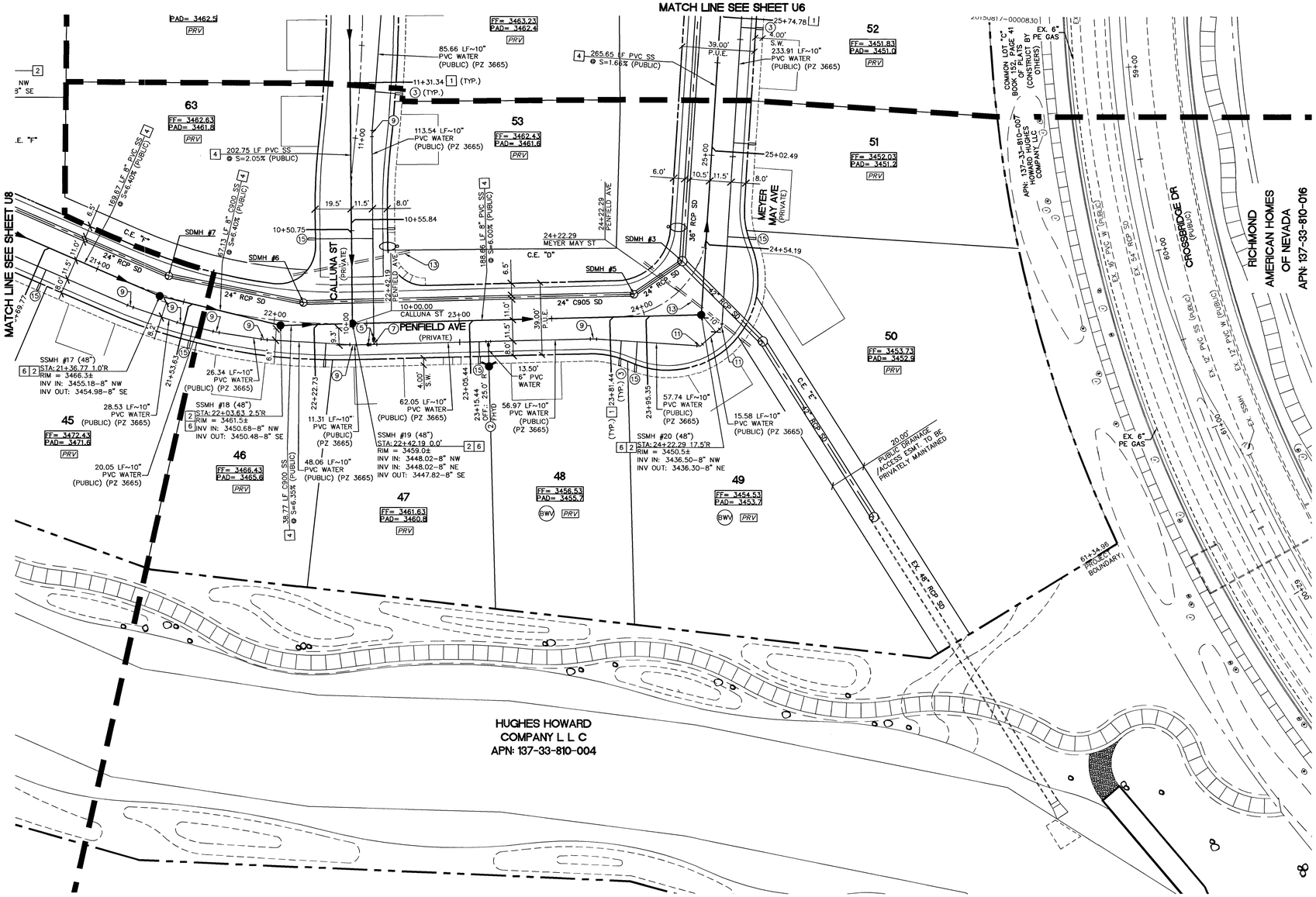
PARDEE HOMES

SUMMERLIN VILLAGE 24 – PARCEL I

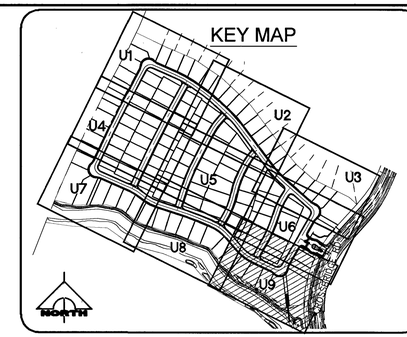
UTILITY PLAN 7

DRAWING U7
43 OF 54 SHTS

PROJ.#:135633A QS:137-33-SE



KEY MAP



NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

WATER CONSTRUCTION NOTES

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BASED ON SQUARE FOOTAGE:	<4,800 SQ.FT. (MAX)
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQ. FT.
BUILDING HEIGHT:	35 FT. (MAX)
NUMBER OF STORIES:	2 (MAX)
TYPE OF CONSTRUCTION:	TYPE V-B
OCCUPANCY: FULL AUTOMATIC SPRINKLER SYSTEM:	SINGLE FAMILY RESIDENTIAL (YES) / NO

REVIEWED BY: _____ DATE: _____

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.

UTILITY APPROVAL

SOUTHWEST GAS CORPORATION — DATE: 31 Dec 2018

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
FIRE FLOW 1,500 AT 20 PSI RESIDUAL — DATE 12/17/18

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 13563.33 FIRST APPROVED DATE: 12/20/18

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

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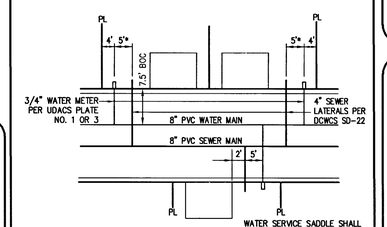

TYPICAL UTILITY LOCATION
NOT TO SCALE

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FOR ALL DRY UTILITY CROSSINGS
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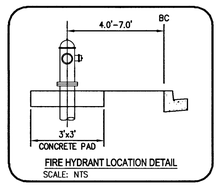

FIRE HYDRANT LOCATION DETAIL
SCALE: NTS

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L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — GIA DI NGUYEN — No. 14916 — CIVIL — Exp. 10/31/2019

DATE: 12/06/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 09:00:38

GCW, INC.
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

F:\Projects\500\5523-A063\DWG\Production\A063-UT.dwg
Quangvinh Nguyen

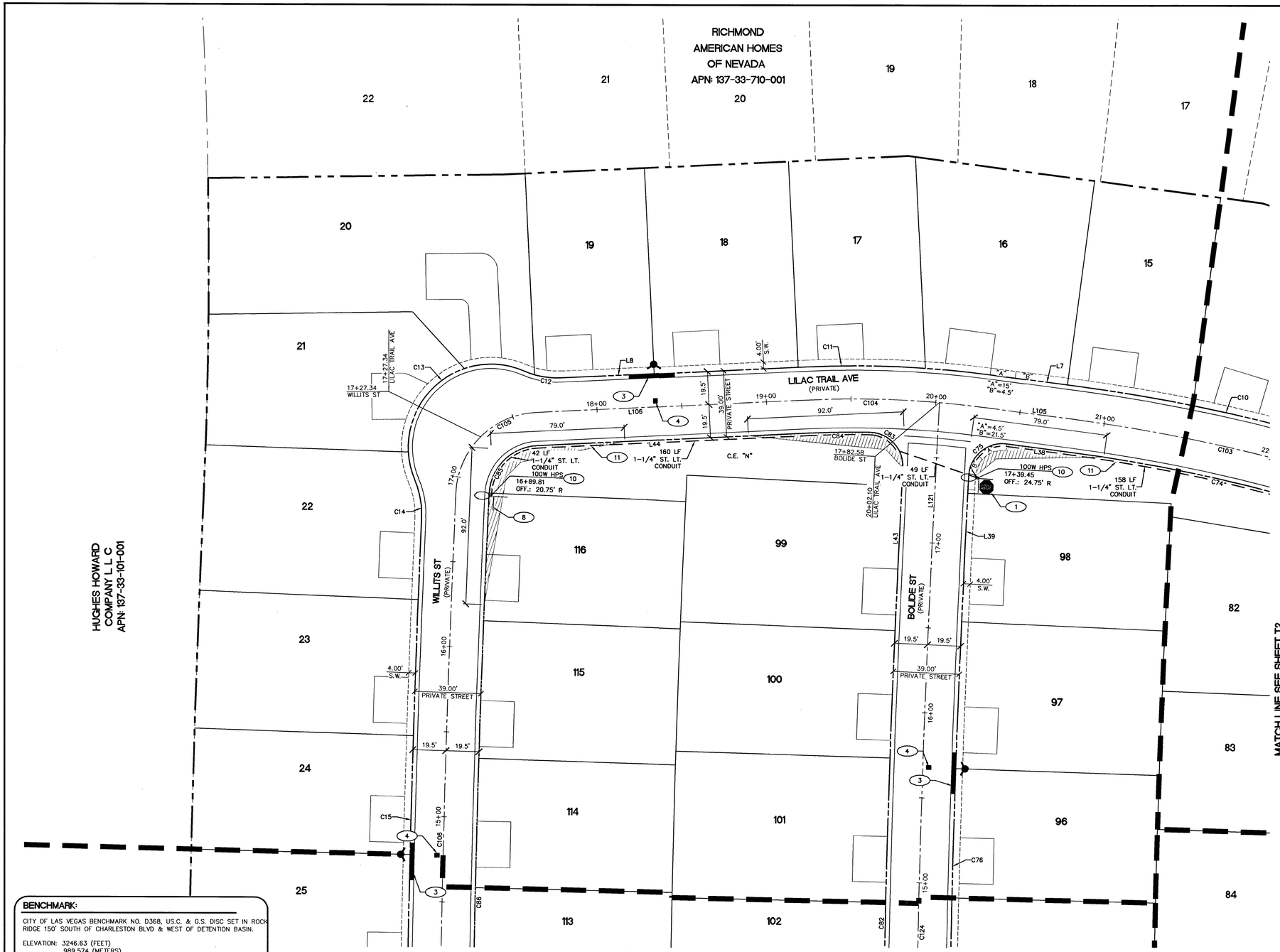
PARDEE HOMES

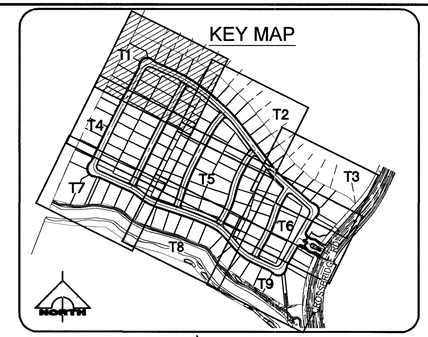
SUMMERLIN VILLAGE 24 - PARCEL I

UTILITY PLAN 9

DRAWING U9
45 OF 54 SHTS

PROJ#:13563A QS:137-33-SE





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
6. GATES SHALL BE ELECTRICALLY POWERED, PROVIDED WITH AN AVI LOOP, AND HAVE A BACK–UP BATTERY SYSTEM IN CASE OF NORMAL POWER LOSS.
7. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 36" STOP SIGN (R1–1).
8. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH THE WORDS "PRIVATELY MAINTAINED".
9. INSTALL SPEED LIMITS (R2–1) POSTED AT 15 MPH, PER CCAUSD # 249.1.
10. INSTALL 100W HPS, TYPE 3, STREET LIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E–1 TO E–27.
11. INSTALL 1–1/4" STREETLIGHT CONDUIT WITH 2–#4 AND 1–#8 THW COPPER CONDUCTORS
12. INSTALL 125 AMP PAD MOUNT SERVICE PEDESTAL PER CCAUSD # 331, 332.S1, AND 335.S1.
13. INSTALL NO. 3 ½ PULL BOX PER CCAUSD # 236.
14. PAINT CURB RED "NO PARKING FIRE LANE" PER TYPE C DETAIL.
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGN (D–3)
- STREET NAME SIGN (D–3) WITH 30" SM. TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")
- 12", 18", ⅜" TRIM, R 7.1 FIRE LANE — TYPE A SIGN
- 4" MIN., NO PARKING FIRE LANE, 36" MIN. — TYPE C SIGN

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

FAST — Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

REFLECTOR NOTE:

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES:

* ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
* ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

Line Table			
Line #	Length	Direction	Note
L7	51.65	S56° 06' 30"E	CURB & GUTTER
L8	144.01	N66° 24' 52"W	CURB & GUTTER
L38	38.31	S56° 06' 30"E	CURB & GUTTER
L39	41.01	N29° 13' 24"E	CURB & GUTTER
L43	43.58	N29° 13' 24"E	CURB & GUTTER
L44	160.13	N66° 24' 52"W	CURB & GUTTER
L105	51.65	S56° 06' 30"E	CL OF STREET
L106	160.13	N66° 24' 52"W	CL OF STREET
L121	83.14	N29° 13' 24"E	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C10	164.65'	1017.50'	009° 16' 18"	82.51'
C11	111.07'	617.50'	010° 18' 22"	55.69'
C12	22.67'	50.00'	025° 58' 28"	11.53'
C13	116.72'	49.00'	136° 28' 37"	122.75'
C14	22.55'	50.00'	025° 50' 32"	11.47'
C15	663.60'	9371.00'	004° 03' 26"	331.94'
C74	158.34'	978.50'	009° 16' 18"	79.34'
C75	33.05'	20.00'	094° 40' 06"	21.70'
C76	594.83'	7982.50'	004° 16' 10"	297.55'
C82	597.74'	8021.50'	004° 16' 10"	299.01'

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C83	32.14'	20.00'	092° 04' 41"	20.74'
C84	35.94'	578.50'	003° 33' 35"	17.98'
C85	44.28'	30.00'	084° 33' 47"	27.28'
C86	689.37'	9332.00'	004° 13' 57"	344.84'
C103	161.50'	998.00'	009° 16' 18"	80.92'
C104	107.57'	598.00'	010° 18' 22"	53.93'
C105	73.06'	49.50'	084° 33' 47"	45.01'
C106	690.81'	9351.50'	004° 13' 57"	345.56'
C124	596.28'	8002.00'	004° 16' 10"	298.28'

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 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 IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.0.01.02
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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — GIA D NGUYEN — No. 14917 — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:47:12

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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gcwengineering.com

F:\Projects\500\5523-A063\DWG\Production\A063-TR.dwg
Quangvinh Nguyen

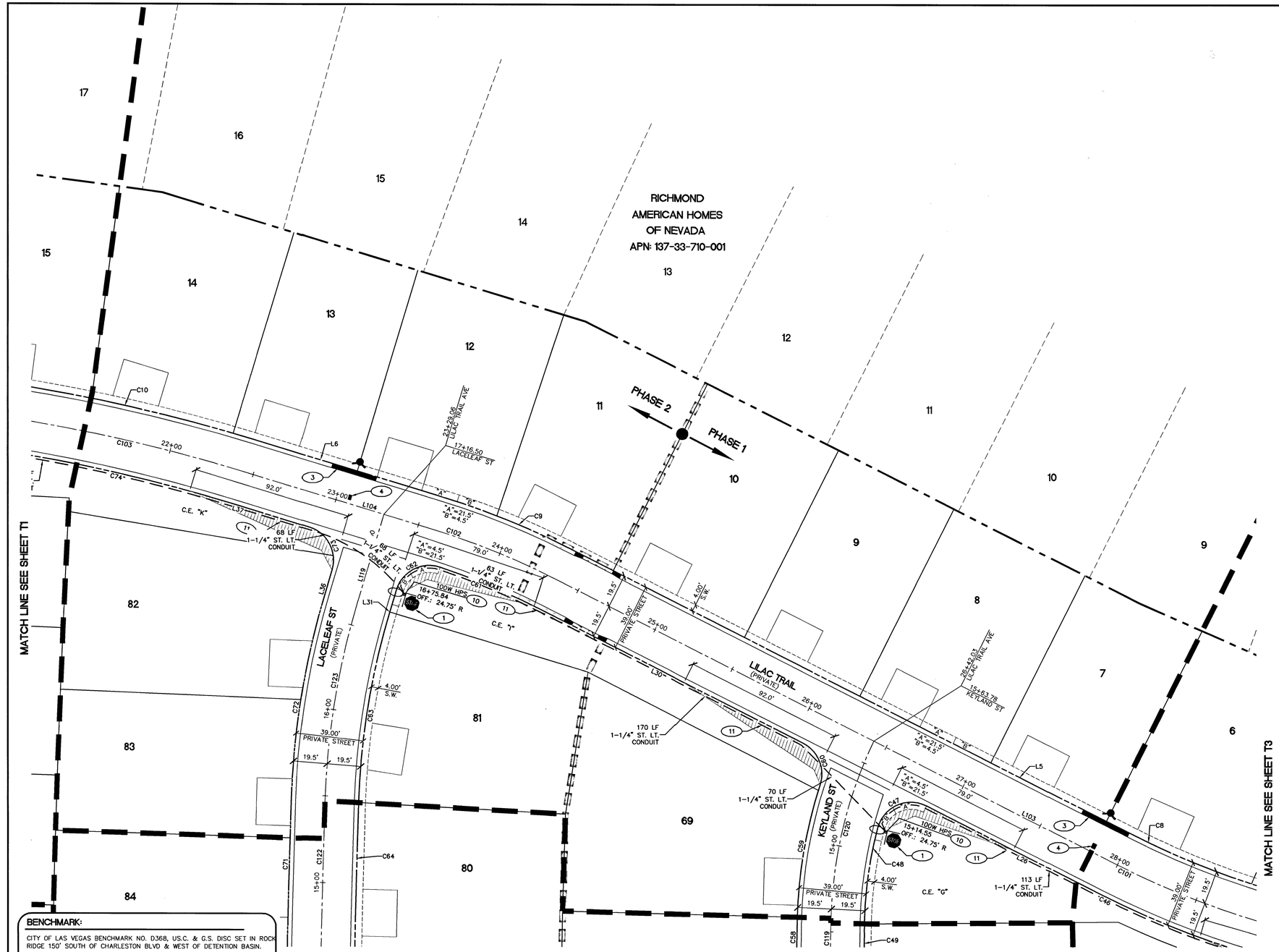
PARDEE HOMES

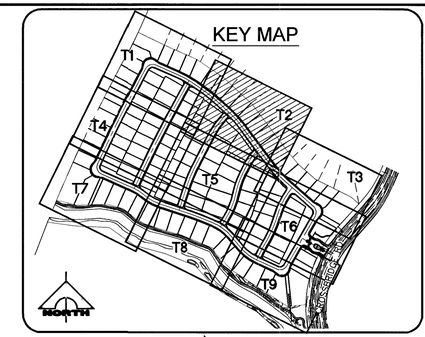
SUMMERLIN VILLAGE 24 – PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 1

DRAWING T1

46 OF 54 SHTS





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
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7. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 36" STOP SIGN (R1–1).
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9. INSTALL SPEED LIMITS (R2–1) POSTED AT 15 MPH, PER CCAUSD # 249.1.
10. INSTALL 100W HPS, TYPE 3, STREET LIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E–1 TO E–27.
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14. PAINT CURB RED "NO PARKING FIRE LANE" PER TYPE C DETAIL.
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGNS (D–3)
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")

TYPE A SIGN: 12" wide, 18" high, ⅜" TRIM, FIRE LANE

TYPE C SIGN: NO PARKING FIRE LANE, 36" MIN., 4" MIN

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, US.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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MATCH LINE SEE SHEET T5

Line Table			
Line #	Length	Direction	Note
L5	363.56	N36° 51' 24"W	CURB & GUTTER
L6	112.71	N46° 50' 12"W	CURB & GUTTER
L26	113.42	N36° 51' 24"W	CURB & GUTTER
L30	169.85	N36° 51' 24"W	CURB & GUTTER
L31	13.13	N43° 06' 26"E	CURB & GUTTER
L36	13.35	N43° 06' 26"E	CURB & GUTTER
L37	44.88	N46° 50' 12"W	CURB & GUTTER
L103	363.56	N36° 51' 24"W	CL OF STREET
L104	112.71	N46° 50' 12"W	CL OF STREET
L119	52.82	N43° 06' 26"E	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C8	100.95'	482.50'	011° 59' 16"	50.66'
C9	81.95'	470.50'	009° 58' 48"	41.08'
C10	164.65'	1017.50'	009° 16' 18"	82.51'
C46	109.11'	521.50'	011° 59' 16"	54.76'
C47	35.62'	20.00'	102° 01' 56"	24.71'
C48	53.69'	230.50'	013° 20' 47"	26.97'
C49	80.19'	7392.50'	000° 37' 17"	40.10'
C58	80.61'	7431.50'	000° 37' 17"	40.31'
C59	78.36'	269.50'	016° 39' 37"	39.46'

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C60	28.37'	20.00'	081° 16' 55"	17.17'
C61	63.44'	431.50'	008° 25' 28"	31.78'
C62	31.98'	20.00'	091° 36' 42"	20.57'
C63	111.94'	430.50'	014° 53' 51"	56.29'
C64	269.49'	7687.50'	002° 00' 31"	134.76'
C71	270.86'	7726.50'	002° 00' 31"	135.44'
C72	122.08'	469.50'	014° 53' 51"	61.38'
C73	31.40'	20.00'	089° 56' 38"	19.98'
C74	158.34'	978.50'	009° 16' 18"	79.34'

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C101	105.03'	502.00'	011° 59' 16"	52.71'
C102	78.56'	451.00'	009° 58' 48"	39.38'
C103	161.50'	998.00'	009° 16' 18"	80.92'
C119	80.40'	7412.00'	000° 37' 17"	40.20'
C120	106.35'	250.00'	024° 22' 28"	53.99'
C122	270.17'	7707.00'	002° 00' 31"	135.10'
C123	117.01'	450.00'	014° 53' 51"	58.83'

GENERAL NOTES

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APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA J. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:48:59

GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-TRT.dwg
Quangvinh Nguyen

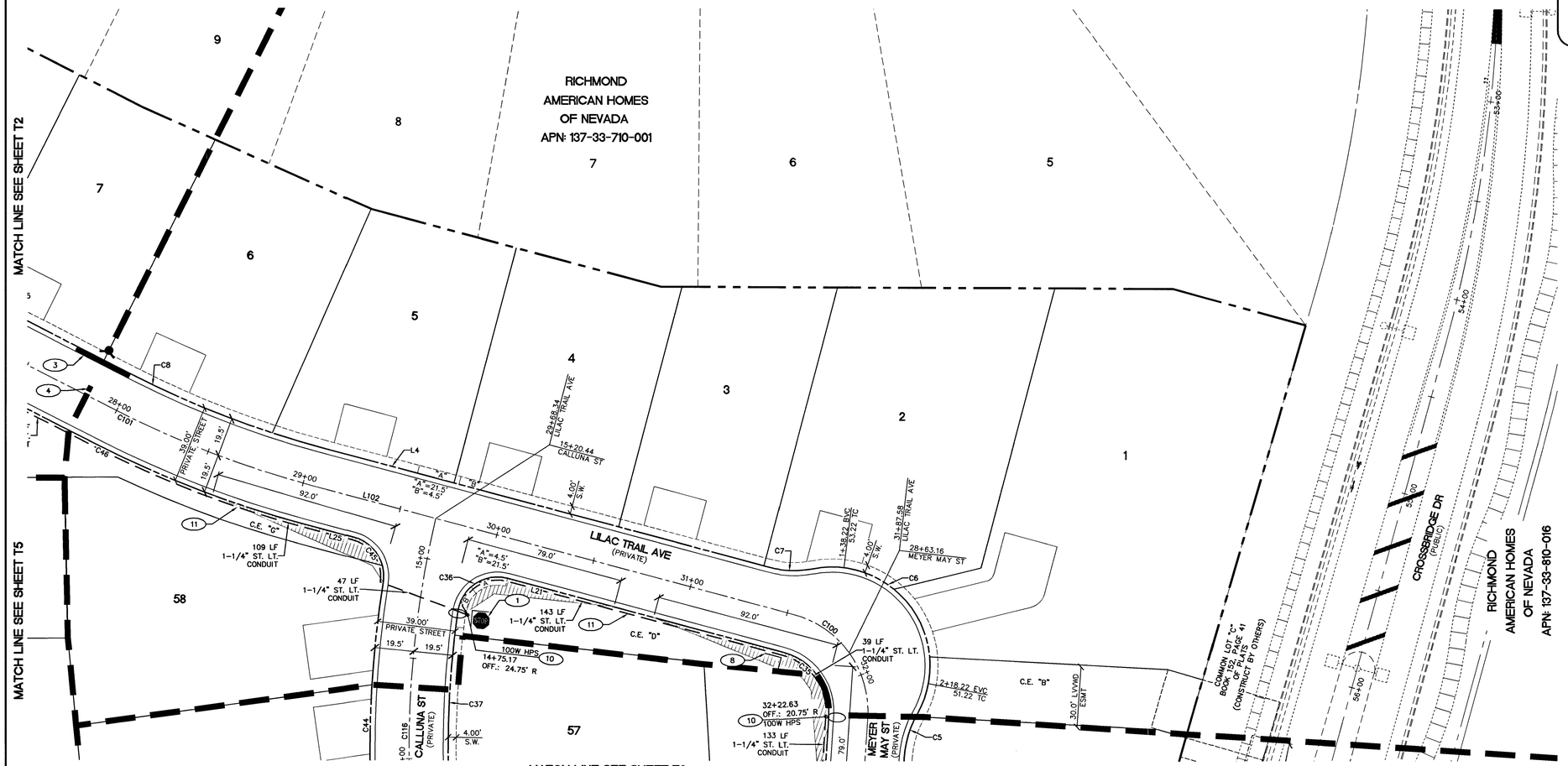
PARDEE HOMES

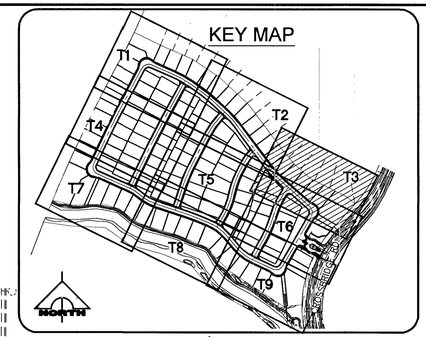
SUMMERLIN VILLAGE 24 – PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 2

DRAWING T2

47 OF 54 SHTS





NORTH

30' 0' 15' 30' 60'

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CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
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5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
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7. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 36" STOP SIGN (R1–1).
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12. INSTALL 125 AMP PAD MOUNT SERVICE PEDESTAL PER CCAUSD # 331, 332.S1, AND 335.S1.
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14. PAINT CURB RED "NO PARKING FIRE LANE" PER TYPE C DETAIL.
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")
- STREET NAME SIGNS (D–3)

TYPE A SIGN: 12" wide, 18" high, ⅜" TRIM, R26 FIRE LANE

TYPE C SIGN: 4" MIN, NO PARKING FIRE LANE, 36" MIN.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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

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Line Table			
Line #	Length	Direction	Note
L4	230.25	S48° 50' 40"E	CURB & GUTTER
L21	142.77	S48° 50' 40"E	CURB & GUTTER
L25	26.73	S48° 50' 40"E	CURB & GUTTER
L102	248.95	S48° 50' 40"E	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C5	22.67'	50.00'	025° 58' 28"	11.53'
C6	111.84'	49.00'	130° 46' 48"	106.98'
C7	22.67'	50.00'	025° 58' 28"	11.53'
C8	100.95'	482.50'	011° 59' 16"	50.66'
C35	41.28'	30.00'	078° 49' 52"	24.66'
C36	33.74'	20.00'	096° 40' 02"	22.47'
C37	151.91'	480.50'	018° 06' 49"	76.59'
C44	173.12'	519.50'	019° 05' 36"	87.37'
C45	29.43'	20.00'	084° 18' 45"	18.11'
C46	109.11'	521.50'	011° 59' 16"	54.76'
C100	68.11'	49.50'	078° 49' 52"	40.68'
C101	105.03'	502.00'	011° 59' 16"	52.71'
C116	202.29'	500.00'	023° 10' 49"	102.55'

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 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 IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.G.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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/7/18

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 14918 — GIA Q. NGUYEN — Exp. 12/31/2019 — CIVIL — DATE: 12/6/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:49:21

GCW ENGINEERS' SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-TR.dwg
Quangvinh Nguyen

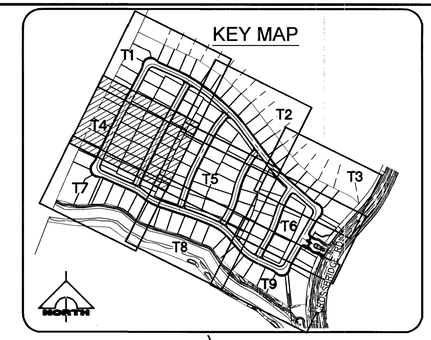
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 3

DRAWING T3

48 OF 54 SHTS



NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
6. GATES SHALL BE ELECTRICALLY POWERED, PROVIDED WITH AN AVI LOOP, AND HAVE A BACK–UP BATTERY SYSTEM IN CASE OF NORMAL POWER LOSS.
7. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 36" STOP SIGN (R1–1).
8. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH THE WORDS "PRIVATELY MAINTAINED".
9. INSTALL SPEED LIMITS (R2–1) POSTED AT 15 MPH, PER CCAUSD # 249.1.
10. INSTALL 100W HPS, TYPE 3, STREET LIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E–1 TO E–27.
11. INSTALL 1–1/4" STREETLIGHT CONDUIT WITH 2–#4 AND 1–#8 THW COPPER CONDUCTORS
12. INSTALL 125 AMP PAD MOUNT SERVICE PEDESTAL PER CCAUSD # 331, 332.S1, AND 335.S1.
13. INSTALL NO. 3 ½ PULL BOX PER CCAUSD # 236.
14. PAINT CURB RED "NO PARKING FIRE LANE" PER TYPE C DETAIL.
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGNS (D–3)
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")

TYPE A SIGN: 12" wide, 18" high, ⅜" TRIM, FIRE LANE

TYPE C SIGN: 4" MIN, NO PARKING FIRE LANE, 36" MIN.

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 WILL BE AN APPROVED EQUIVALENT.
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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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18–02530 | CLV DWG# 107Y5092

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

FAST — Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

REFLECTOR NOTE:

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES:
* ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
* ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

Line Table			
Line #	Length	Direction	Note
L40	66.21	N24° 57' 14"E	CURB & GUTTER
L42	64.38	N24° 57' 14"E	CURB & GUTTER
L120	103.16	N24° 57' 14"E	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C15	663.60'	9371.00'	004° 03' 26"	331.94'
C76	594.83'	7982.50'	004° 16' 10"	297.55'
C82	597.74'	8021.50'	004° 16' 10"	299.01'
C86	689.37'	9332.00'	004° 13' 57"	344.84'
C106	690.81'	9351.50'	004° 13' 57"	345.56'
C124	596.28'	8002.00'	004° 16' 10"	298.28'

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — No. 14918 — QUANG VINH NGUYEN — Exp. 12/31/2019 — CIVIL

DATE: 12/6/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:49:54

GCW ENGINEERS\ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-TR.dwg
Quangvinh Nguyen

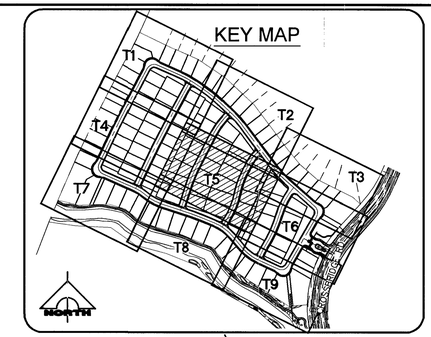
PARDEE HOMES

SUMMERLIN VILLAGE 24 – PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 4

DRAWING T4

49 OF 54 SHTS



NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
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10. INSTALL 100W HPS, TYPE 3, STREET LIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E–1 TO E–27.
11. INSTALL 1–1/4" STREETLIGHT CONDUIT WITH 2–#4 AND 1–#8 THW COPPER CONDUCTORS
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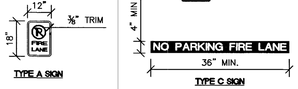
14. PAINT CURB RED "NO PARKING FIRE LANE" PER TYPE C DETAIL.
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")
- STREET NAME SIGNS (D–3)



BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (S.W.¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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Call 811
OR
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY
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* ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C49	80.19'	7392.50'	000° 37' 17"	40.10'
C50	132.00'	480.50'	015° 44' 22"	66.42'
C51	188.73'	519.50'	020° 48' 56"	95.42'
C56	174.57'	480.50'	020° 48' 56"	88.26'
C57	142.71'	519.50'	015° 44' 22"	71.81'
C58	80.61'	7431.50'	000° 37' 17"	40.31'
C64	269.49'	7687.50'	002° 00' 31"	134.76'
C65	103.46'	730.50'	008° 06' 52"	51.81'

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C70	108.98'	769.50'	008° 06' 52"	54.58'
C71	270.86'	7726.50'	002° 00' 31"	135.44'
C117	181.65'	500.00'	020° 48' 56"	91.84'
C118	137.35'	500.00'	015° 44' 22"	69.11'
C119	80.40'	7412.00'	000° 37' 17"	40.20'
C121	106.22'	750.00'	008° 06' 52"	53.20'
C122	270.17'	7707.00'	002° 00' 31"	135.10'

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 WILL BE AN APPROVED EQUIVALENT.
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5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/10/18

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA D. NGUYEN — Exp. 12/31/2019 — CIVIL — No. 14911

DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:50:27

GCW, INC.
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-TR.dwg
Quangvinh Nguyen

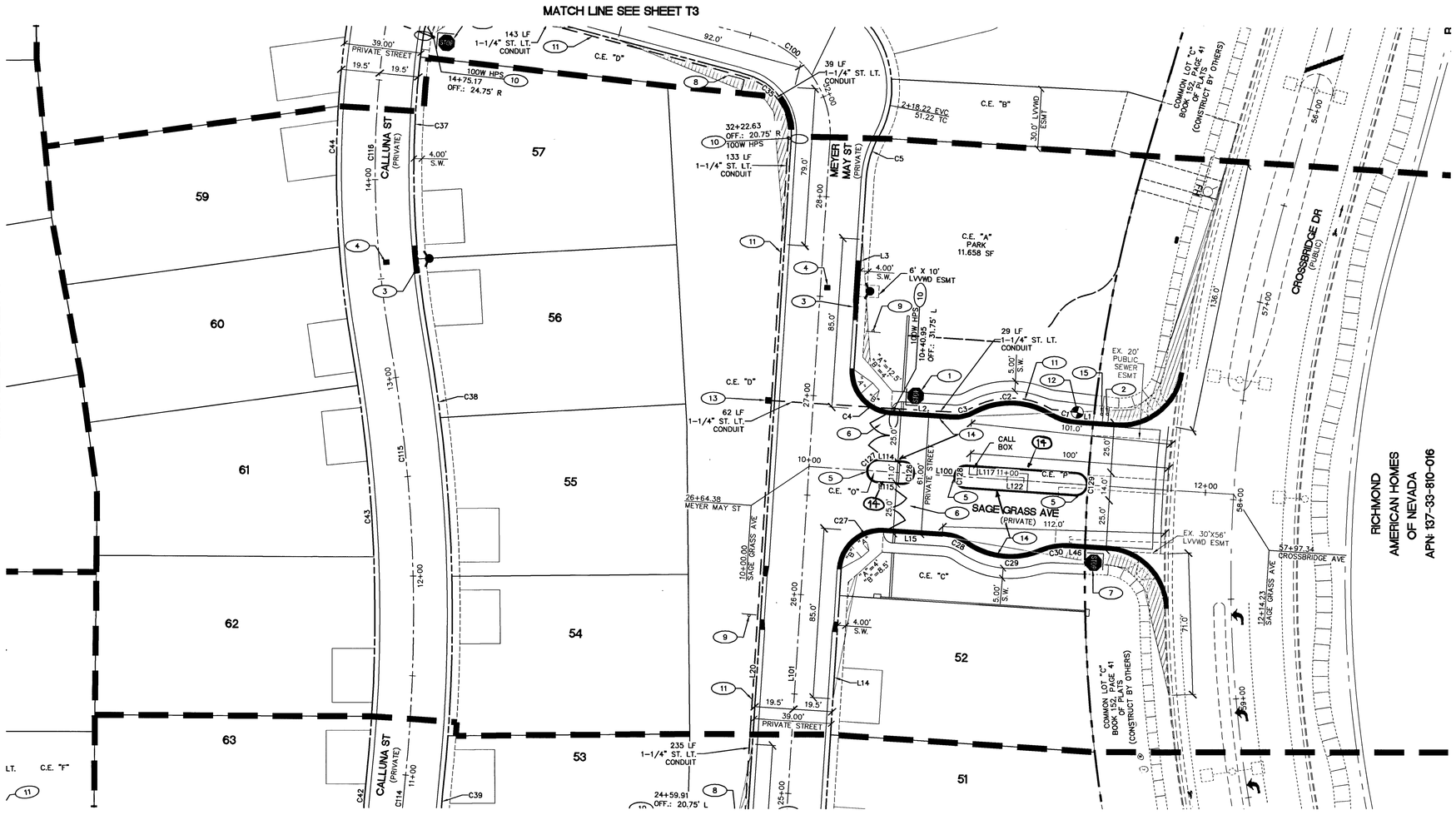
PARDEE HOMES

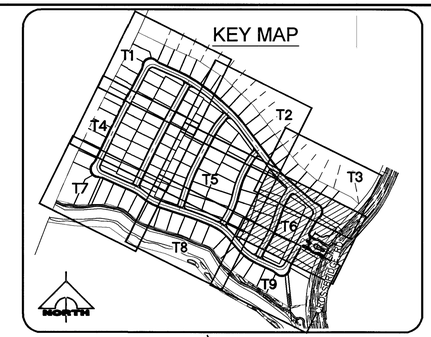
SUMMERLIN VILLAGE 24 - PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 5

DRAWING T5

50 OF 54 SHTS





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
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- STREET NAME SIGNS (D–3)
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")

TYPE A SIGN: 12" wide, 18" high, ⅜" TRIM, R26 FIRE LANE

TYPE C SIGN: 4" MIN, NO PARKING FIRE LANE, 36" MIN.

BENCHMARK:

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989.574 (METERS)

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Line Table

Line #	Length	Direction	Note
L1	20.20	S60° 00' 09"E	CURB & GUTTER
L2	30.91	S60° 00' 07"E	CURB & GUTTER
L3	95.53	N29° 59' 12"E	CURB & GUTTER
L14	138.98	N29° 59' 12"E	CURB & GUTTER
L15	30.89	S60° 00' 07"E	CURB & GUTTER
L20	370.19	N29° 59' 12"E	CURB & GUTTER
L46	20.20	S60° 00' 09"E	CURB & GUTTER
L100	214.23	N60° 00' 07"W	CL OF STREET
L101	370.19	N29° 59' 12"E	CL OF STREET
L114	12.42	N60° 00' 07"W	CURB & GUTTER
L115	12.42	S60° 00' 07"E	CURB & GUTTER
L117	55.67	N60° 00' 07"W	CURB & GUTTER
L122	55.67	S60° 00' 07"E	CURB & GUTTER

Curve Table

Curve #	Length	Radius	Delta	Tangent
C1	14.07'	30.00'	026° 52' 11"	7.17'
C2	40.64'	39.50'	058° 56' 17"	22.32'
C3	10.91'	19.50'	032° 04' 08"	5.60'
C4	31.41'	20.00'	089° 59' 19"	20.00'
C5	22.67'	50.00'	025° 58' 28"	11.53'
C27	31.42'	20.00'	090° 00' 41"	20.00'
C28	10.91'	19.50'	032° 04' 08"	5.60'
C29	40.64'	39.50'	058° 56' 15"	22.32'
C30	14.07'	30.00'	026° 52' 04"	7.17'
C35	41.28'	30.00'	078° 49' 52"	24.66'
C37	151.91'	480.50'	018° 06' 49"	76.59'
C38	230.52'	814.50'	016° 12' 56"	116.03'

Curve Table

Curve #	Length	Radius	Delta	Tangent
C39	27.57'	230.50'	006° 51' 10"	13.80'
C42	32.23'	269.50'	006° 51' 10"	16.14'
C43	219.48'	775.50'	016° 12' 56"	110.48'
C44	173.12'	519.50'	019° 05' 36"	87.37'
C100	68.11'	49.50'	078° 49' 52"	40.68'
C114	29.90'	250.00'	006° 51' 10"	14.97'
C115	225.00'	795.00'	016° 12' 56"	113.26'
C116	202.29'	500.00'	023° 10' 49"	102.55'
C126	16.76'	5.33'	180° 00' 00"	INFINITY'
C127	16.76'	5.33'	179° 58' 19"	21852.86'
C128	16.76'	5.33'	180° 00' 00"	INFINITY'
C129	16.76'	5.33'	180° 00' 00"	INFINITY'

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 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 IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.0.01.02
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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18–02530 | CLV DWG# 107Y5092

RICHMOND AMERICAN HOMES OF NEVADA
APN: 137–33–810–016

DATE: 12/06/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GOV APP

PROJECT NO. 5523-A063
DESIGN: ON
DRAWN: ON
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:50:55

GCV ENGINEERS' SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com
F:\Projects\A05\5523-A063\DWG\Production\A063-TR.dwg
Quangvinh Nguyen

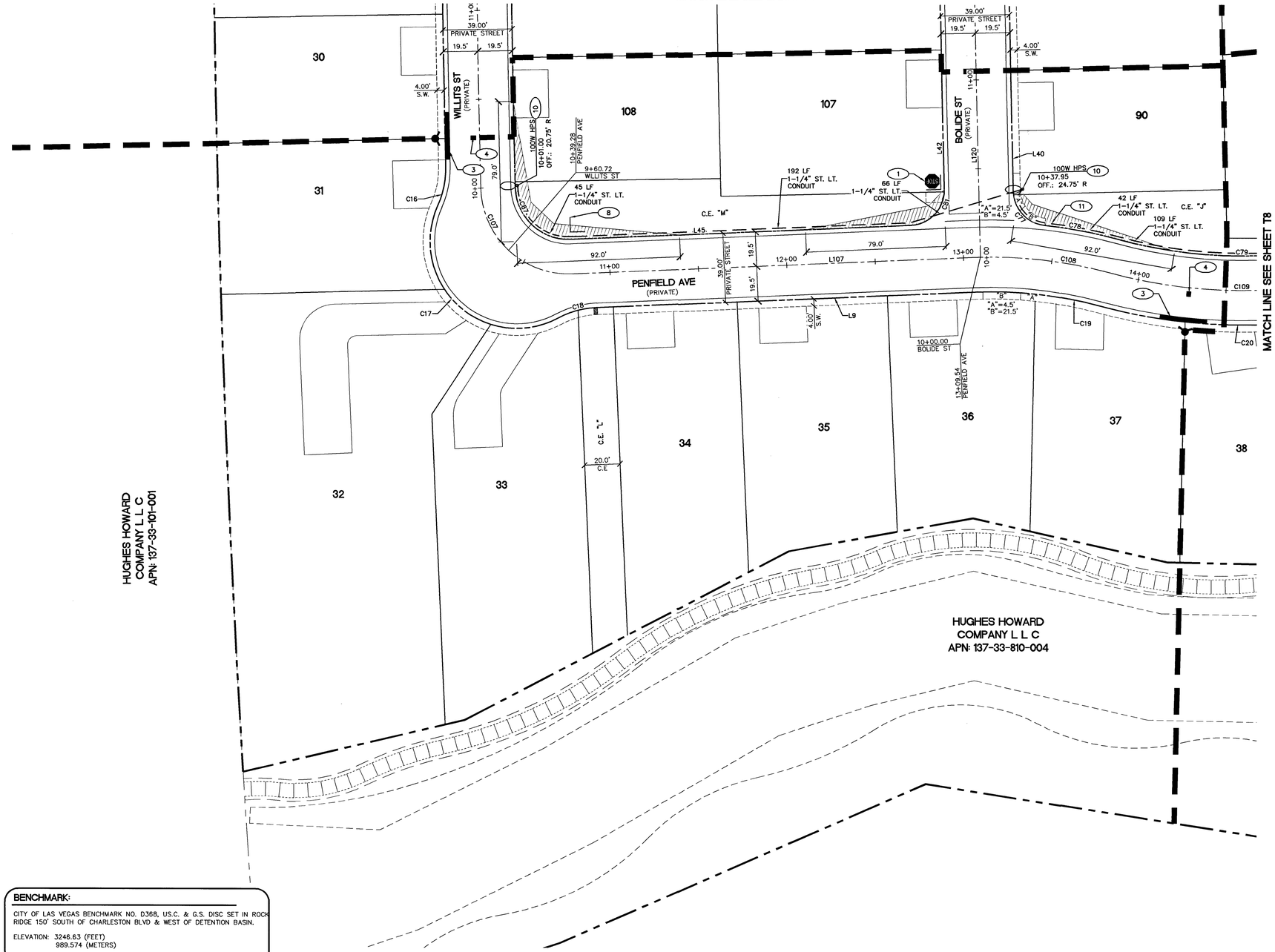
PARDEE HOMES

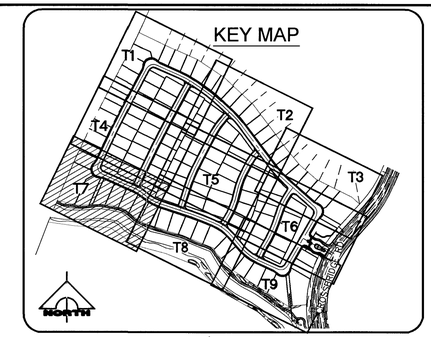
SUMMERLIN VILLAGE 24 – PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 6

DRAWING T6

51 OF 54 SHTS





NORTH

30' 0' 15' 30' 60'

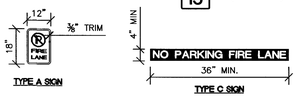
SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
6. GATES SHALL BE ELECTRICALLY POWERED, PROVIDED WITH AN AVI LOOP, AND HAVE A BACK–UP BATTERY SYSTEM IN CASE OF NORMAL POWER LOSS.
7. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 36" STOP SIGN (R1–1).
8. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH THE WORDS "PRIVATELY MAINTAINED".
9. INSTALL SPEED LIMITS (R2–1) POSTED AT 15 MPH, PER CCAUSD # 249.1.
10. INSTALL 100W HPS, TYPE 3, STREET LIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E–1 TO E–27.
11. INSTALL 1–1/4" STREETLIGHT CONDUIT WITH 2–#4 AND 1–#8 THW COPPER CONDUCTORS
12. INSTALL 125 AMP PAD MOUNT SERVICE PEDESTAL PER CCAUSD # 331, 332.S1, AND 335.S1.
13. INSTALL NO. 3 ½ PULL BOX PER CCAUSD # 236.
14. PAINT CURB RED "NO PARKING FIRE LANE" PER TYPE C DETAIL.
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGN (D–3)
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")



BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 162, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

REFLECTOR NOTE:

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES:

* ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
* ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

Line Table			
Line #	Length	Direction	Note
L9	214.43	S66° 08' 13"E	CURB & GUTTER
L40	66.21	N24° 57' 14"E	CURB & GUTTER
L42	64.38	N24° 57' 14"E	CURB & GUTTER
L45	192.23	S66° 08' 13"E	CURB & GUTTER
L107	227.35	S66° 08' 13"E	CL OF STREET
L120	103.16	N24° 57' 14"E	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C16	22.55'	50.00'	025° 50' 32"	11.47'
C17	122.14'	49.00'	142° 49' 17"	145.69'
C18	22.67'	50.00'	025° 58' 28"	11.53'
C19	70.99'	230.50'	017° 38' 45"	35.78'
C20	125.70'	307.50'	023° 25' 20"	63.74'
C77	28.76'	20.00'	082° 22' 57"	17.50'
C78	42.04'	269.50'	008° 56' 15"	21.06'

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C79	109.76'	268.50'	023° 25' 20"	55.66'
C81	31.04'	20.00'	088° 54' 33"	19.62'
C87	47.61'	30.00'	090° 55' 37"	30.49'
C107	78.56'	49.50'	090° 55' 37"	50.31'
C108	76.99'	250.00'	017° 38' 45"	38.80'
C109	117.73'	288.00'	023° 25' 20"	59.70'

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 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 IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.0.01.02
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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18-02530 | CLV DWG# 107Y5092

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — GIA DI NGUYEN — No. 14918 — CIVIL — Exp. 12/31/2019 — DATE: 12/06/18

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP

PROJECT NO. 5523-A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12-06-18
PLOT TIME: 08:51:13

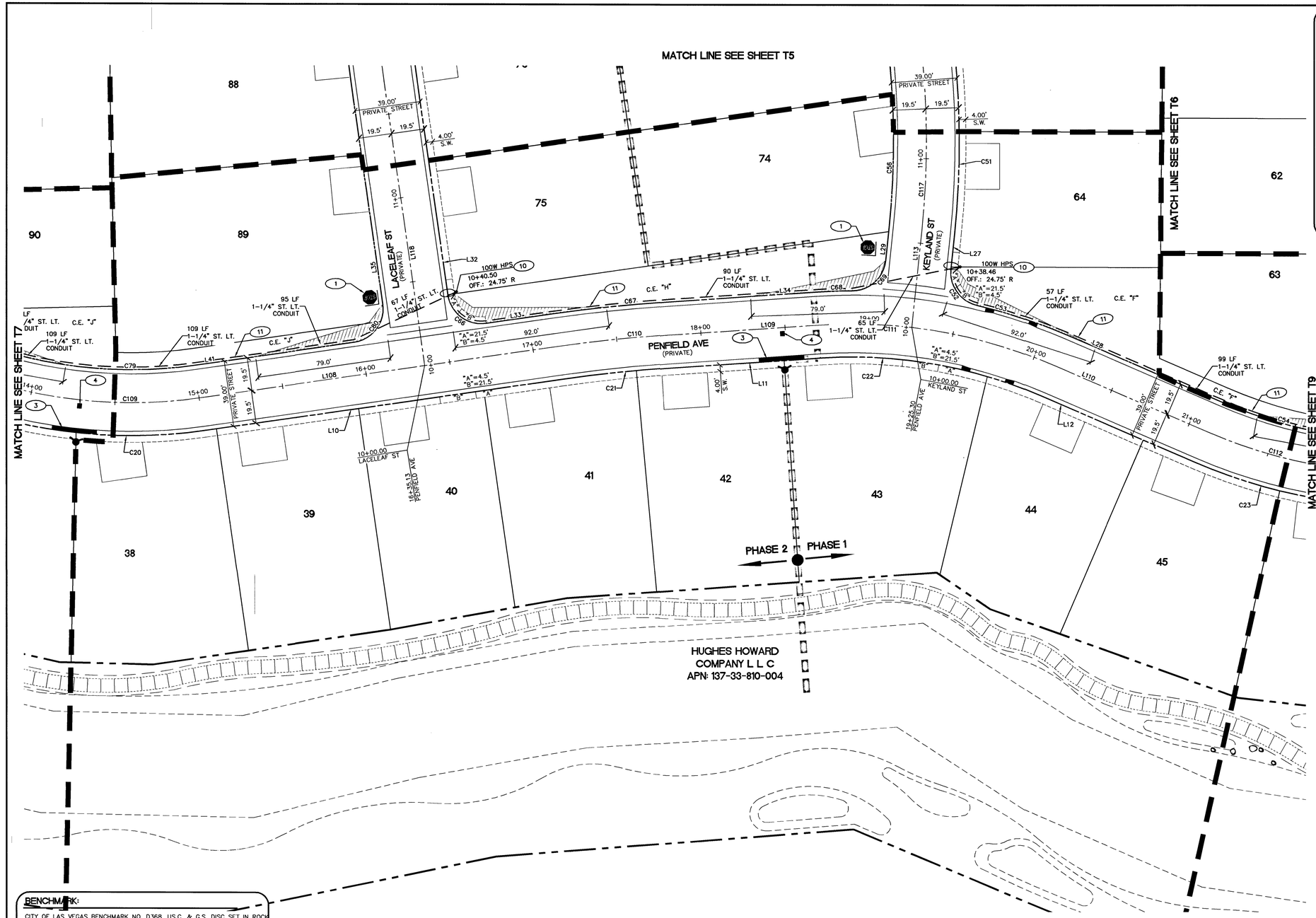
GCW ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523-A063\DWG\Production\A063-TR.dwg
Quangvinh Nguyen

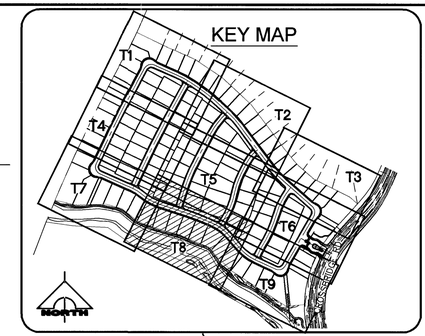
PARDEE HOMES

SUMMERLIN VILLAGE 24 - PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 7

DRAWING T7





NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
6. GATES SHALL BE ELECTRICALLY POWERED, PROVIDED WITH AN AVI LOOP, AND HAVE A BACK–UP BATTERY SYSTEM IN CASE OF NORMAL POWER LOSS.
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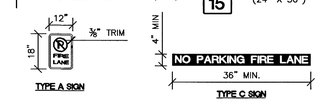
15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- STREET NAME SIGNS (D–3) — D–3 (36" X 12")
- W14–2 (30" X 30")
- R2–1 (24" X 30")



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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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18–02530 | CLV DWG# 107Y5092

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05'36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

FAST — Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

REFLECTOR NOTE:

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES:
* ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
* ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

Line Table			
Line #	Length	Direction	Note
L10	214.40	S71° 54' 48"E	CURB & GUTTER
L11	90.06	S67° 33' 05"E	CURB & GUTTER
L12	99.06	S40° 22' 31"E	CURB & GUTTER
L27	21.23	N32° 13' 09"E	CURB & GUTTER
L28	99.06	S40° 22' 31"E	CURB & GUTTER
L29	20.43	N32° 13' 09"E	CURB & GUTTER
L32	130.79	S18° 05' 12"W	CURB & GUTTER
L33	40.40	S71° 54' 48"E	CURB & GUTTER

Line Table			
Line #	Length	Direction	Note
L34	90.06	S67° 33' 05"E	CURB & GUTTER
L35	130.79	S18° 05' 12"W	CURB & GUTTER
L41	95.00	S71° 54' 48"E	CURB & GUTTER
L108	214.40	S71° 54' 48"E	CL OF STREET
L109	90.06	S67° 33' 05"E	CL OF STREET
L110	99.06	S40° 22' 31"E	CL OF STREET
L113	58.02	N32° 13' 09"E	CL OF STREET
L118	170.29	S18° 05' 12"W	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C20	125.70'	307.50'	023° 25' 20"	63.74'
C21	64.14'	842.50'	004° 21' 43"	32.09'
C22	133.05'	280.50'	027° 10' 34"	67.80'
C23	138.58'	319.50'	024° 51' 07"	70.40'
C51	188.73'	519.50'	020° 48' 56"	95.42'
C52	28.88'	20.00'	082° 44' 11"	17.61'
C53	56.55'	319.50'	010° 08' 31"	28.35'
C54	79.74'	280.50'	016° 17' 17"	40.14'
C56	174.57'	480.50'	020° 48' 56"	88.26'
C66	31.42'	20.00'	090° 00' 00"	20.00'

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C67	67.11'	881.50'	004° 21' 43"	33.57'
C68	20.47'	319.50'	003° 40' 15"	10.24'
C69	29.29'	20.00'	083° 54' 01"	17.98'
C79	109.76'	268.50'	023° 25' 20"	55.66'
C80	31.42'	20.00'	090° 00' 00"	20.00'
C109	117.73'	288.00'	023° 25' 20"	59.70'
C110	65.63'	862.00'	004° 21' 43"	32.83'
C111	142.29'	300.00'	027° 10' 34"	72.51'
C112	130.12'	300.00'	024° 51' 07"	66.10'
C117	181.65'	500.00'	020° 48' 56"	91.84'

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

F:\Projects\500\5523–A063\DWG Production\A063–TR.dwg
Quangvinh Nguyen

PROJECT NO. 5523–A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12–06–18
PLOT TIME: 08:51:51

PARDEE HOMES

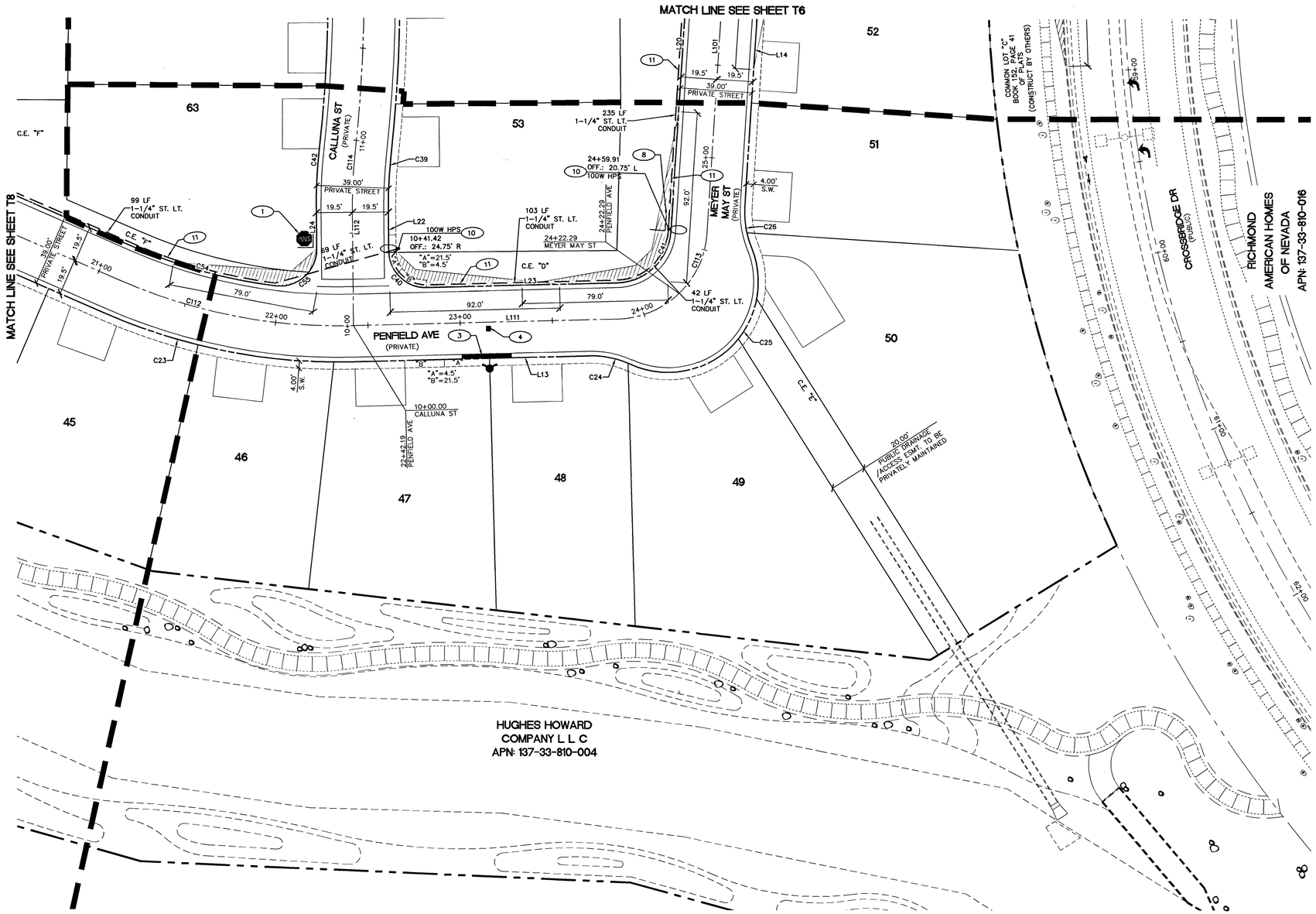
SUMMERLIN VILLAGE 24 – PARCEL I

TRAFFIC AND HORIZONTAL CONTROL PLAN 8

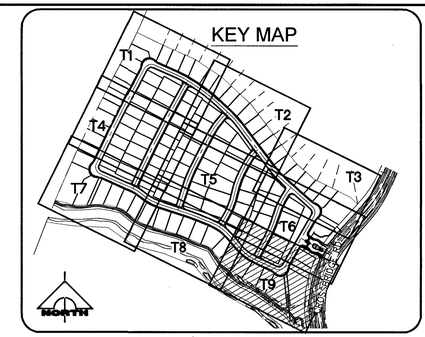
DRAWING T8
53 OF 54 SHTS

REV | DATE | DESCRIPTION | AGEN APP | DATE | GCV APP | DATE

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA D. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18



KEY MAP



NORTH

30' 0' 15' 30' 60'

SCALE: 1" = 30'

CONSTRUCTION NOTES

1. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 30" STOP SIGN (R1–1).
2. INSTALL "NO OUTLET" SIGN (W14–2P), PRIVATE TO BE PRIVATELY MAINTAINED.
3. PAINT CURB RED 15' ON EACH SIDE OF FIRE HYDRANT EXCEPT DRIVEWAY.
4. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
5. INSTALL MEDIAN NOSE MARKING PER CCAUSD #248.
6. GATES SHALL BE ELECTRICALLY POWERED, PROVIDED WITH AN AVI LOOP, AND HAVE A BACK–UP BATTERY SYSTEM IN CASE OF NORMAL POWER LOSS.
7. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH WHITE LETTERS, WITH THE WORDS "PRIVATELY MAINTAINED", WITH 36" STOP SIGN (R1–1).
8. INSTALL (2) STREET NAME SIGN (D3)–BROWN BACK WITH THE WORDS "PRIVATELY MAINTAINED".
9. INSTALL SPEED LIMITS (R2–1) POSTED AT 15 MPH, PER CCAUSD # 249.1.
10. INSTALL 100W HPS, TYPE 3, STREET LIGHT AND FOUNDATION PER SUMMERLIN STD DWG NO. E–1 TO E–27.
11. INSTALL 1–1/4" STREETLIGHT CONDUIT WITH 2–#4 AND 1–#8 THW COPPER CONDUCTORS
12. INSTALL 125 AMP PAD MOUNT SERVICE PEDESTAL PER CCAUSD # 331, 332.S1, AND 335.S1.
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15. INSTALL "NO PARKING FIRE LANE" SIGN PER TYPE A DETAIL.

LEGEND

- 125 AMP PAD MOUNT SERVICE PEDESTAL
- SIGN – SEE PLAN FOR SPECIFICATION
- RED PAINTED CURB
- MEDIAN NOSE MARKINGS
- BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS.
- STREET NAME SIGNS (D–3)
- STREET NAME SIGN (D–3) WITH 30" SM TOP SIGN (R1–1)
- D–3 (36" X 12")
- W14–2 (30" X 30")
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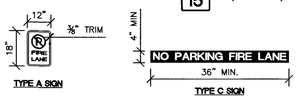


BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. D368, U.S.C. & G.S. DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD & WEST OF DETENTION BASIN.

ELEVATION: 3246.63 (FEET)
989.574 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

BASIS OF BEARING:

NORTH 05°36'00" WEST, BEING THE BEARING OF THE WEST LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AS SHOWN IN BOOK 152, PAGE 41 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

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

REFLECTOR NOTE:

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES:
* ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE; EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
* ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE; SIXTEEN (16) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.

Line Table			
Line #	Length	Direction	Note
L13	127.50	S65° 13' 37"E	CURB & GUTTER
L14	138.98	N29° 59' 12"E	CURB & GUTTER
L20	370.19	N29° 59' 12"E	CURB & GUTTER
L22	23.08	N25° 44' 14"E	CURB & GUTTER
L23	103.30	S65° 13' 37"E	CURB & GUTTER
L24	21.51	N25° 44' 14"E	CURB & GUTTER
L101	370.19	N29° 59' 12"E	CL OF STREET
L111	143.47	S65° 13' 37"E	CL OF STREET
L112	63.25	N25° 44' 14"E	CL OF STREET

Curve Table				
Curve #	Length	Radius	Delta	Tangent
C23	138.58'	319.50'	024° 51' 07"	70.40'
C24	22.67'	50.00'	025° 58' 28"	11.53'
C25	116.94'	49.00'	136° 44' 06"	123.56'
C26	22.67'	50.00'	025° 58' 28"	11.53'
C39	27.57'	230.50'	006° 51' 10"	13.80'
C40	31.75'	20.00'	090° 57' 52"	20.34'
C41	44.39'	30.00'	084° 47' 11"	27.39'
C42	32.23'	269.50'	006° 51' 10"	16.14'
C54	79.74'	280.50'	016° 17' 17"	40.14'
C55	34.07'	20.00'	097° 35' 58"	22.85'
C112	130.12'	300.00'	024° 51' 07"	66.10'
C113	73.25'	49.50'	084° 47' 11"	45.19'
C114	29.90'	250.00'	006° 51' 10"	14.97'

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 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 IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.G.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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE — DATE 12/17/18

L# 18–02530 | CLV DWG# 107Y5092

STATE OF NEVADA — PROFESSIONAL ENGINEER — GIA D. NGUYEN — No. 14918 — Exp. 12/31/2019 — CIVIL — DATE: 12/06/18

REV	DATE	DESCRIPTION	AGEN APP	DATE	GCW APP	DATE

PROJECT NO. 5523–A063
DESIGN: QN
DRAWN: QN
CHECK: GDN
PLOT DATE: 12–06–18
PLOT TIME: 08:52:26

GCW ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com
F:\Projects\500\5523–A063\DWG\Production\A063–TR.dwg
Quangvinh Nguyen

PARDEE HOMES

SUMMERLIN VILLAGE 24 – PARCEL I

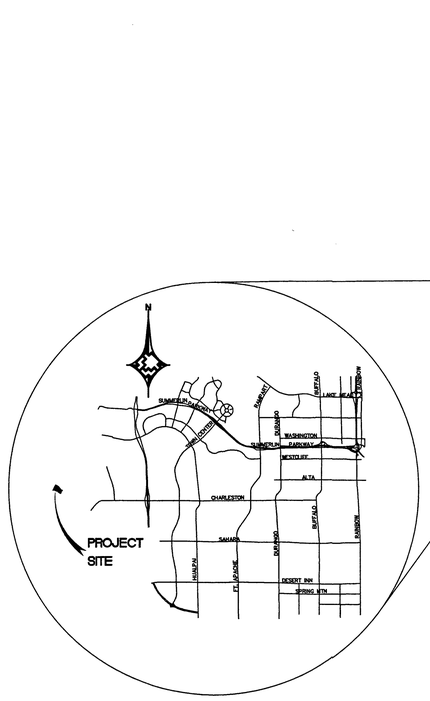
TRAFFIC AND HORIZONTAL CONTROL PLAN 9

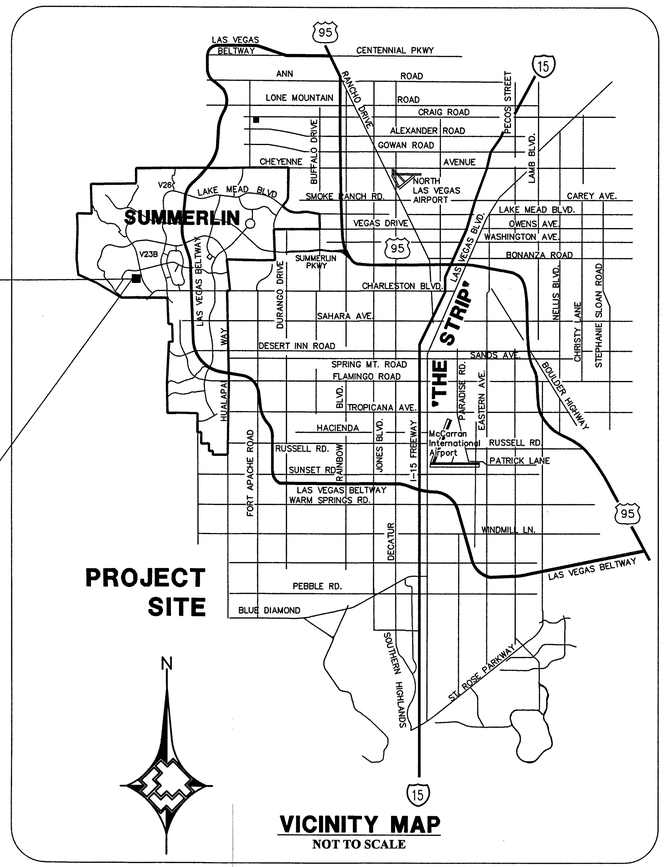
DRAWING T9

54 OF 54 SHTS

SOUTHWEST GAS CORPORATION

SUMMERLIN VILLAGE 24 - PARCEL I
CITY OF LAS VEGAS, NV
WR #3705592





VICINITY MAP
NOT TO SCALE

LEGEND

- EXISTING GAS LINE
- GAS LINE TO BE ABANDONED
- EXISTING GAS SERVICE
- PROPOSED MAIN GAS LINE (NEW)
- PROPOSED SERVICE LATERAL (NEW)
- PROPOSED SERVICE LINE (NEW)
- RIGHT OF WAY LINE
- STREET CENTERLINE
- PROPERTY LINE
- BACK OF CURB
- MATCHLINE
- PAVEMENT CUT AND REPAIR
- EXISTING ANODELESS RISER
- EXISTING ANODE RISER
- EXISTING GAS LIGHT
- EXISTING GAS VALVE
- STL (1) PE (1) PROPOSED MAIN CALL OUT
- (1) ABANDONED FACILITIES CALL OUT
- (12) GAS DIMENSIONS
- EXCESS FLOW VALVE (EFV)

SHEET INDEX

1. COVER SHEET
2. ABBREVIATION & NOTES
3. MATERIALS & SIGNATURES
4. DESIGN PLAN 1
5. DESIGN PLAN 2
6. DESIGN PLAN 3
7. DESIGN PLAN 4
8. DESIGN PLAN 5
9. DESIGN PLAN 6
10. DESIGN PLAN 7
11. DESIGN PLAN 8
12. DESIGN PLAN 9
13. TYPICAL SWPPP BMP DETAILS

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

CUSTOMERS 116

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED PROPOSED	INSTL. COMPLETED	RETIRED COMPLETED

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/ PRESS REC SN#

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

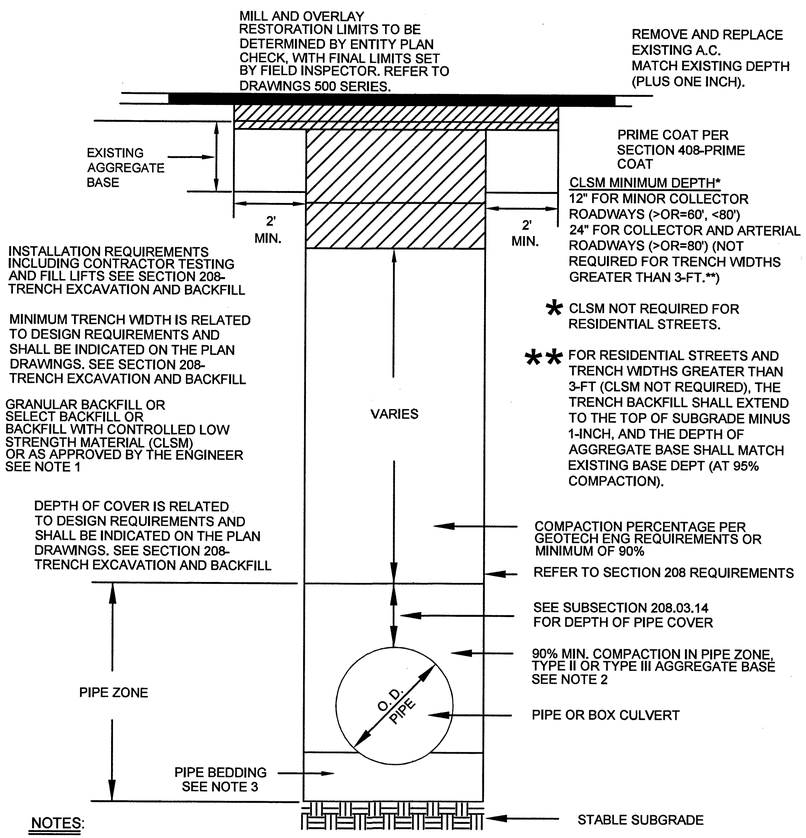
ENGINEER/TECH: KAELAN TANIGAWA		PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES		PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI		PHONE: 702-891-5286
SHEET NO: 1 OF 13	SCALE: NTS	DATE: 09/20/18
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:

TITLE

SUMMERLIN VILLAGE 24
PARCEL I - COVER SHEET

DOC_33534331

55 OF 67
107Y592



NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. 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.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

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

PRELIMINARY NOT FOR CONSTRUCTION

DATE:_____BY:_____

ABBREVIATIONS

AB	ABANDONED
AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AIM	AREA ISOLATION MODULE
BLVD	BOULEVARD
BM	BENCHMARK
BMI	BLACK MOUNTAIN INDUSTRIAL
BO	BLOW OFF
BTU	BRITISH THERMAL UNIT
BWC	BASIC WATER COMPANY
COBC	CITY OF BOULDER CITY
CC	CLARK COUNTY
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CIP	CAST IRON PIPE
CL	CENTERLINE
CLV	CITY OF LAS VEGAS
CNLV	CITY OF NORTH LAS VEGAS
COH	CITY OF HENDERSON
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM
DNR	DOES NOT REGISTER
DWG	DRAWING
EFV	EXCESS FLOW VALVE
EG	EXISTING GROUND
EHDD	EFFECTIVE HEATING DEGREE DAY
ELEC	ELECTRICAL
ELEV	ELEVATION
EMRS	ELECTRONIC MAPPING RECORDS SYSTEM
EPR	ELECTRONIC PRESSURE RECORDERS
ESMT	EASEMENT
EX	EXISTING
FERC	FEDERAL ENERGY REGULATORY COMMISSION
FOS	FACILITY OUT OF SERVICE
FH	FIRE HYDRANT
GIR	GAS INFRASTRUCTRE REPLACEMENT
GPR	GAS PRESSURE REGULATOR
HCA	HIGH CONSEQUENCE AREA
HDD	HEATING DEGREE DAY
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH PRESSURE
HERS	HOME ENERGY RATING SYSTEM
HOP	HISTORIC OPERATING PROCEDURE
HVTT	HIGH VOLUME TAPPING TEE
ID	INSIDE DIAMETER
IN	INCH(ES)
IPS	IRON PIPE SIZE
IS	IDENTIFIED SITE
JT	JOINT TRENCH
KRG	KERN RIVER GAS COMPANY
LDCPE	LARGE DIAMETER COILED POLYETHYLENE PIPE
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE
MCFH	THOUSAND CUBIC FEET PER HOUR
MH	MANHOLE
MOP	MAXIMUM OPERATING PRESSURE
MSA	METER SET ASSEMBLY
MVP	MAPPING VERIFICATION PROCEDURE
NAP	NOT A PART
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NTSB	NATIONAL TRANSPORTATION SAFETY BOARD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OHP	OVERHEAD POWER
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
PP	POWER POLE
PQF	PREQUALIFIED FITTING
PVC	POLYVINYL CHLORIDE
RAM	RISK ASSESSMENT MODEL
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FOOT
SHT	SHEET
SHP	STEEL HIGH PRESSURE PIPE
SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STRENGTH TEST DRAWING
STL	STEEL
SWG	SOUTHWEST GAS
TEL	TELEPHONE
TB	THRUST BLOCK
TOP	TOP OF PIPE
TP	TEST POINT
TRIMP	TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
UOC	UNUSUAL OPERATING CONDITIONS
UOP	UNIT OF PROPERTY
UPRR	UNION PACIFIC RAILROAD
USD	UNIFORM STANDARD DRAWING
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)

CONSTRUCTION NOTES

1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES LOCATE IN FIELD.
2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS.
3. DO NOT SCALE THIS DRAWING.
4. SEE AC'S FOR SERVICE REPLACEMENT.
5. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
6. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
7. ABANDONED SERVICE NO ACTION REQUIRED.
8. REPLACE ALL ACTIVE SERVICES INCLUDING AA, PVC, M7000 PE, M8000 PE, EXCEPT WHERE EXISTING M8100 PE SERVICES ARE VERIFIED, INSPECTED, AND APPROVED FOR TIE-OVER BY SWG INSPECTOR.
9. EXISTING SERVICES, VERIFICATION, AND INSPECTION REQUIRED FROM MAIN TO RISER. TIE INTO NEW MAIN IF APPROVED BY SWG INSPECTOR. REPLACE ALL AA, PVC, M7000 PE, AND M8000 PE SERVICES. M8100 PE SERVICES TO BE VERIFIED, INSPECTED AND APPROVED BY SWG INSPECTOR.
10. EXISTING SERVICE, UNKNOWN TYPE, SIZE, AND LOCATION TO BE VERIFIED.
11. REPLACEMENT SERVICES TO BE SINGLE OR BRANCHED. NO CROSS-LOT REPLACEMENT SERVICES PERMITTED.
12. REPLACE ALL ANODE RISERS WITH ANODELESS RISERS.
13. ALL EXISTING UTILITY LOCATION TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
14. CONTACT ENGINEERING FOR BYPASS INFORMATION.
15. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED.
16. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
17. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
18. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503 & 500.5.

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

(A1) 503

(A2) 500.5

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/PRESS REC SN#

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592

LOCATION	ATLAS #/TILE #
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

ENGINEER/TECH: KAELAN TANIGAWA		PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES		PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI		PHONE: 702-891-5286
SHEET NO: 2 OF 13	SCALE: NTS	DATE: 09/20/18
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:

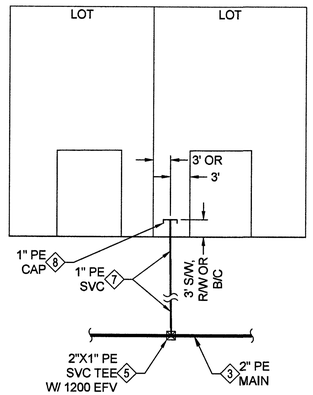
TITLE

SUMMERLIN VILLAGE 24
PARCEL I - ABBREVIATIONS & NOTES

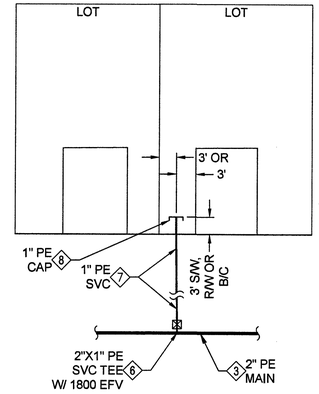
DOC_33534331

EG OF 67
107Y5092

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1	1		140-3530	PROPOSED 4" PE COUPLING
2	1		140-5118	PROPOSED 4"X2" PE REDUCER
3	7,048		100-5101	PROPOSED 2" PE MAIN
4	9		140-3074	PROPOSED 2" PE TEE
5	90		160-8577	PROPOSED 2"X1" PE TAPPING TEE W/ 1200 EFV
6	13		160-8394	PROPOSED 2"X1" PE TAPPING TEE W/ 1800 EFV
7	2,062		101-8526	PROPOSED 1" PE SERVICE
8	103		850-8773	PROPOSED 1" PE CAP



A - TYPICAL RESIDENTIAL SERVICE LATERAL DETAIL - SINGLE



B - TYPICAL RESIDENTIAL SERVICE LATERAL DETAIL - BRANCHED

VISUAL INSPECTION (OQ/PJQ)

SIGNATURE _____

DATE _____

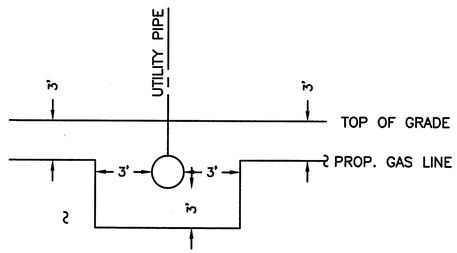
SYSTEM D_W_VALLEY

DR. NO. 21DR15001002

SEGMENT M.A.O.P. N/A

SYSTEM M.A.O.P. 60_PSIG

SYSTEM M.O.P. 55_PSIG



TYPICAL UTILITY CROSSING DETAIL
NOT TO SCALE

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

PRINT:_____ DATE:_____

SIGNATURE:_____

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

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL.	RETIRED	INSTL.	RETIRED
	3760102	2" PE	7,048			
	3800101	1" PE	2,062			
			PROPOSED		COMPLETED	

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP
TEST METHOD: ☐ GAUGE ☐ CHART GAUGE# PRESS REC SN#

PIPE DIA. _____
PIPE LENGTH _____
PIPE TYPE _____
MIN. DURATION _____
TEST PRES. (PSIG): (MAX)_____ (MIN)_____
TIME: (START)_____ (STOP)_____
DATE: (START)_____ (STOP)_____
PERFORMED BY: _____
SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____
POSTED BY _____ DATE _____
POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____
FOREMAN _____
REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

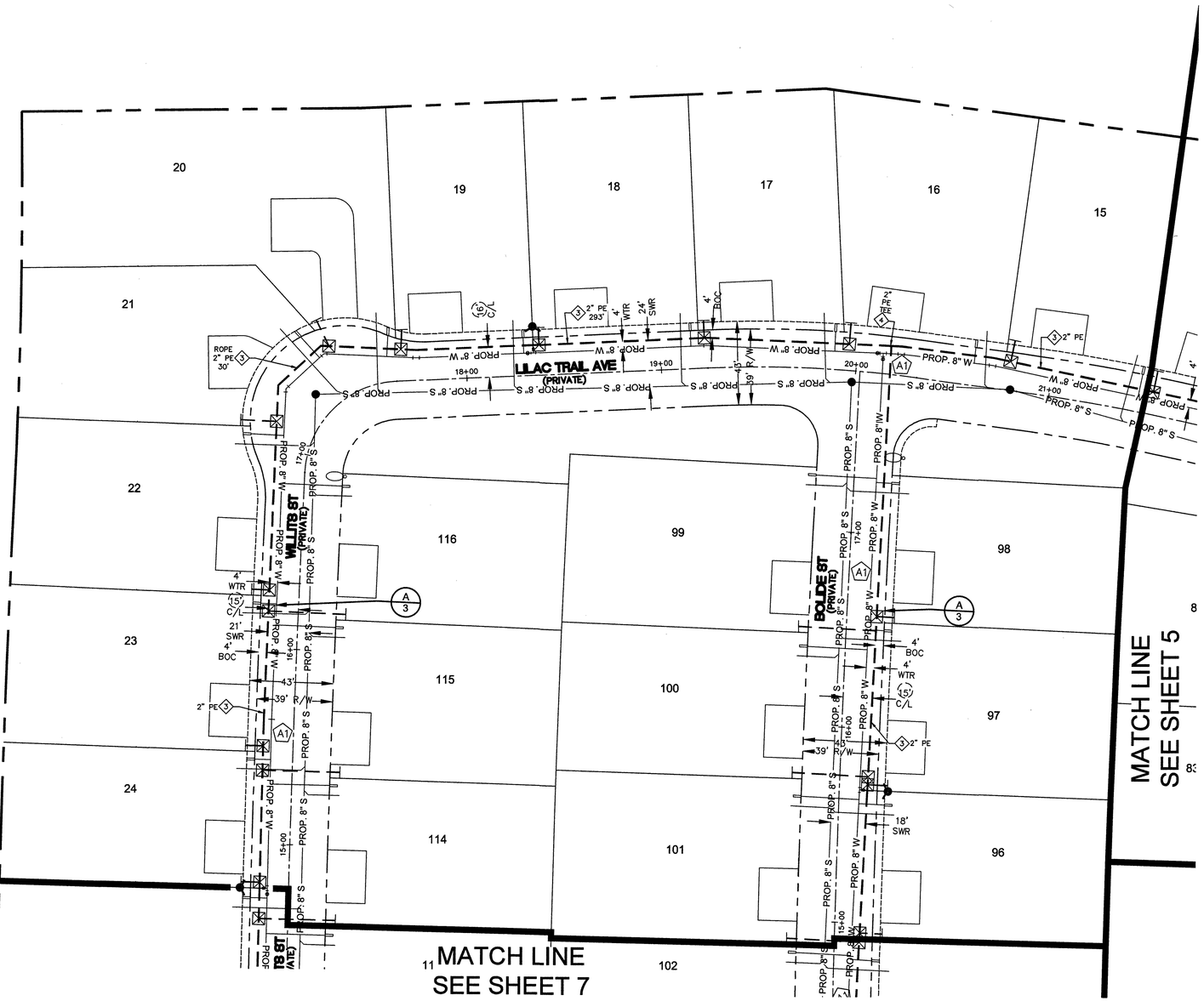
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 3 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

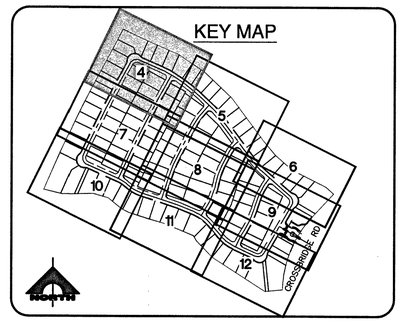
TITLE

SUMMERLIN VILLAGE 24 PARCEL I - MATERIALS & SIGNATURES

DOC_33534331

57 OF 67
1071592





MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

N

0 1" = 30' 30

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

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

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL.	RETIRED	INSTL.	RETIRED
			PROPOSED		COMPLETED	

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP

TEST METHOD: ☐ GAUGE ☐ CHART ☐ GAUGE/PRESS REC SN#

PIPE DIA. _____
PIPE LENGTH _____
PIPE TYPE _____
MIN. DURATION _____
TEST PRES. (PSIG): (MAX)_____ (MIN)_____
TIME: (START)_____ (STOP)_____
DATE: (START)_____ (STOP)_____
PERFORMED BY: _____
SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____
POSTED BY _____ DATE _____
POSTING QC'D BY _____ DATE _____

CONSTRUCTION
INSPECTOR _____
FOREMAN _____
REVIEWED BY _____

PERMIT INFORMATION
CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

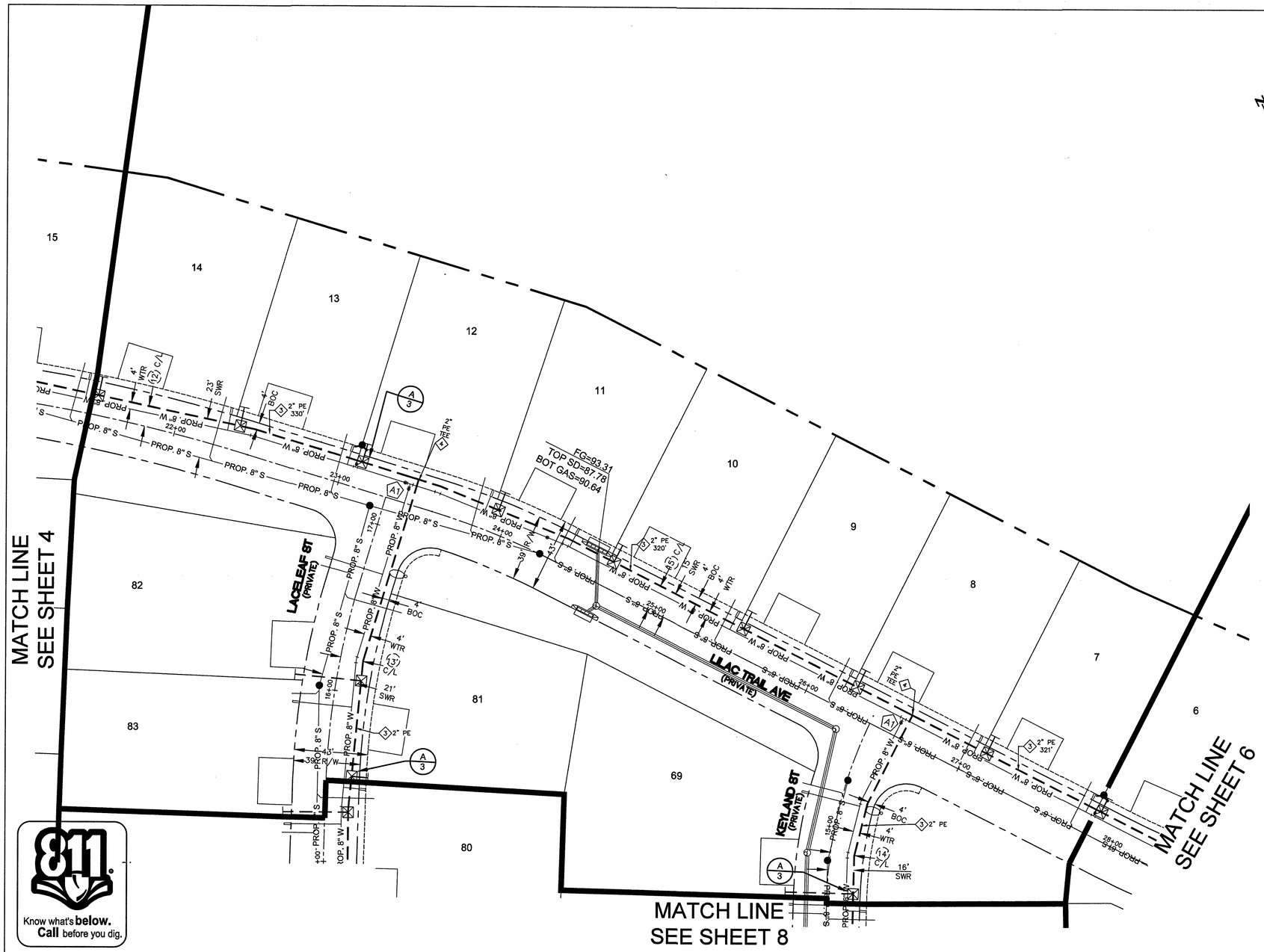
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 4 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

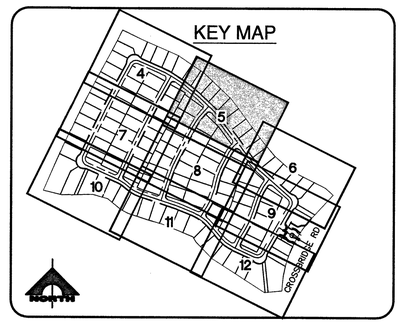
TITLE

SUMMERLIN VILLAGE 24
PARCEL I - DESIGN PLAN 1

DOC_33534331

58 OF 67
107Y5092





MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

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

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP TEST METHOD ☐ GAUGE ☐ CHART GAUGE/ PRESS REC SN#

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION

VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

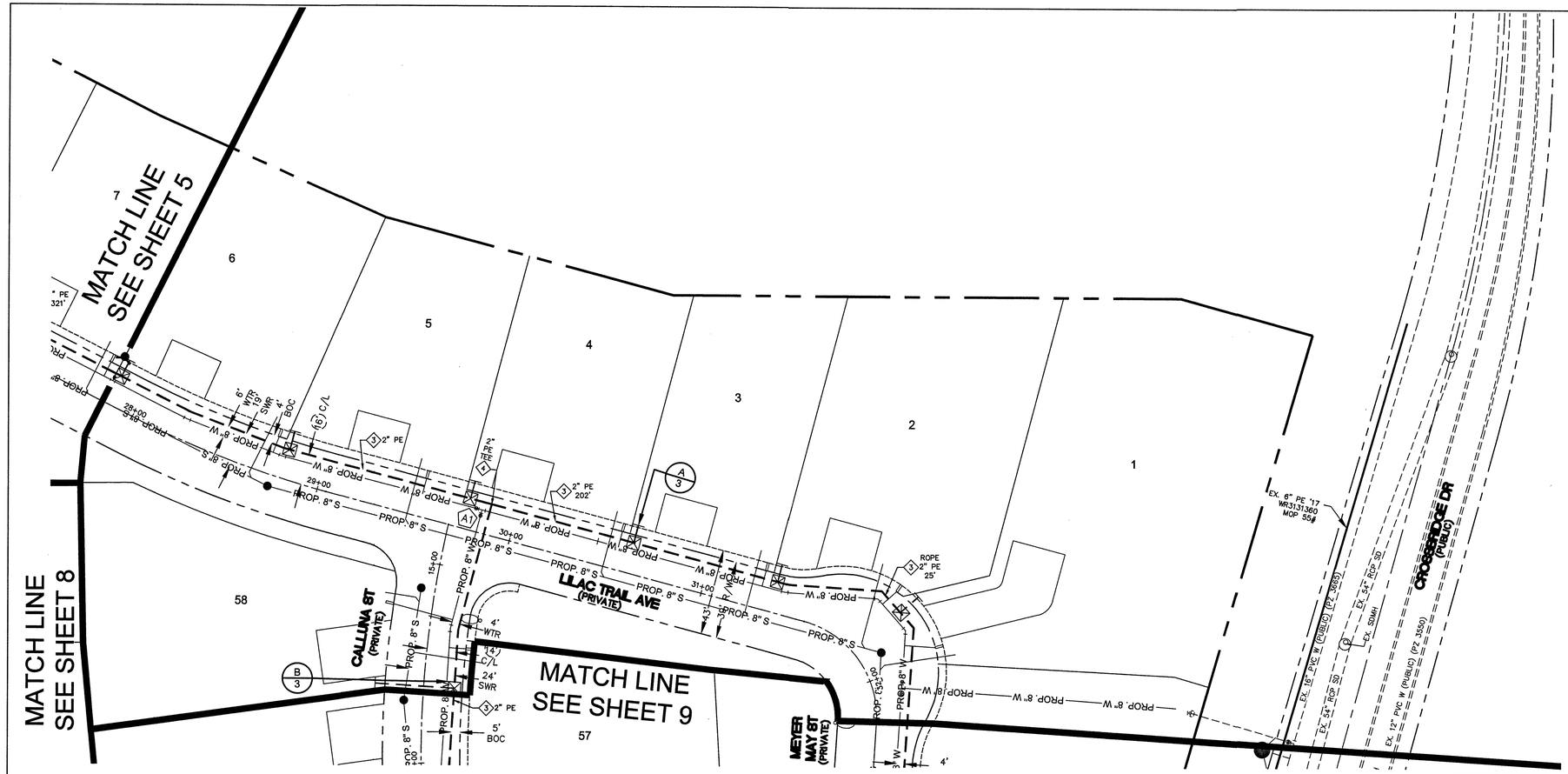
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 5 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

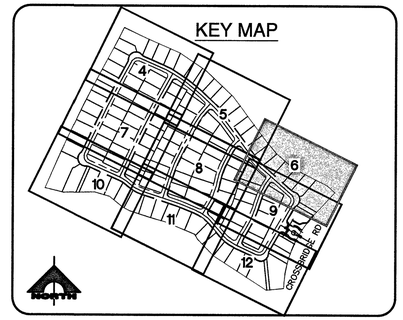
TITLE

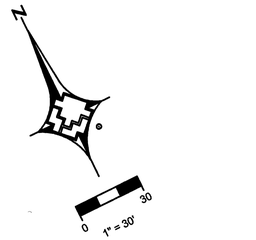
SUMMERLIN VILLAGE 24
PARCEL I - DESIGN PLAN 2

DOC_33534331

59 OF 67
107Y 509E







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

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
◇3	100-5101	PROPOSED 2" PE MAIN
◇4	140-3074	PROPOSED 2" PE TEE

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

◇A1 503

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/PRESS REC SN# _____

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

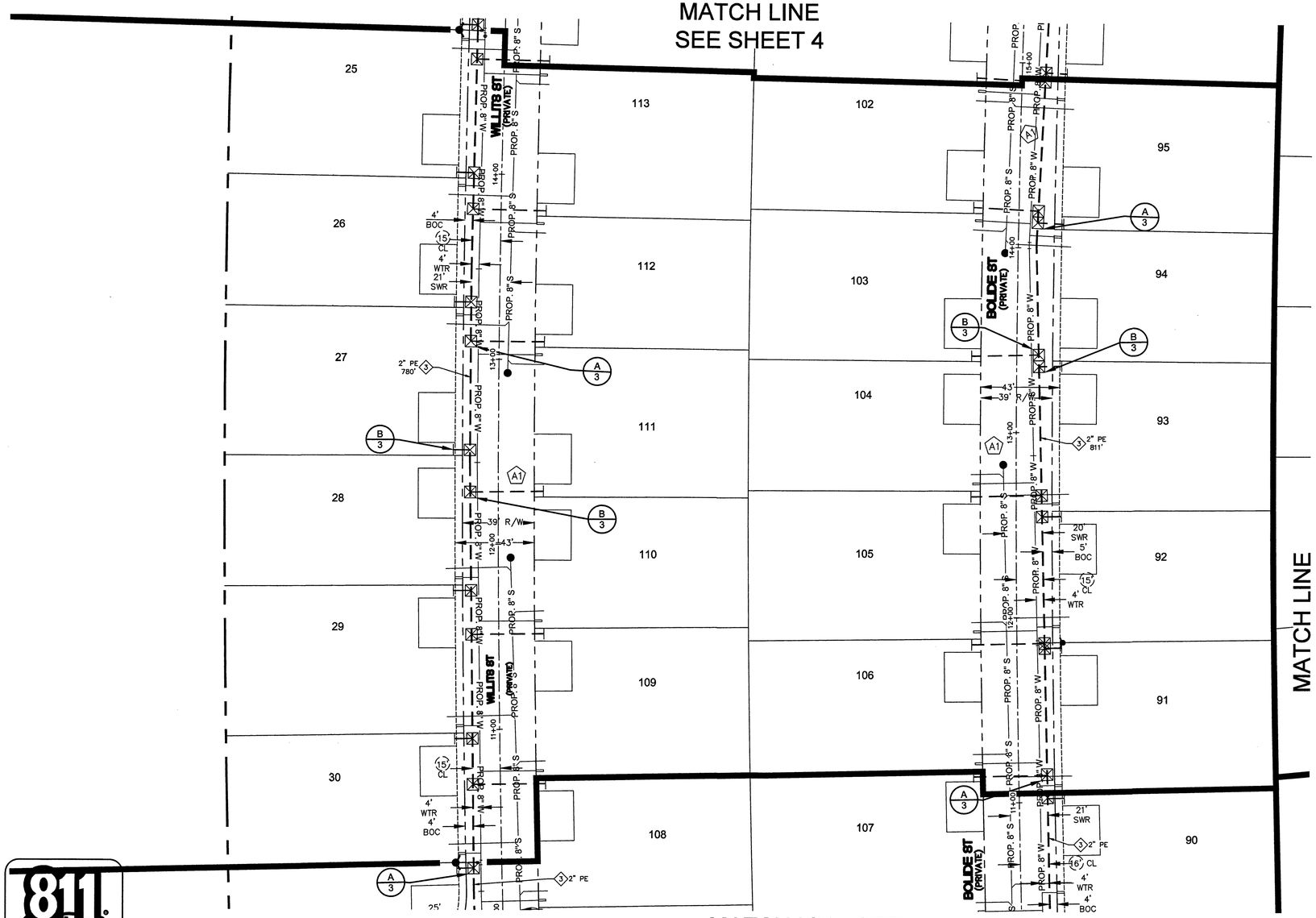
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 6 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

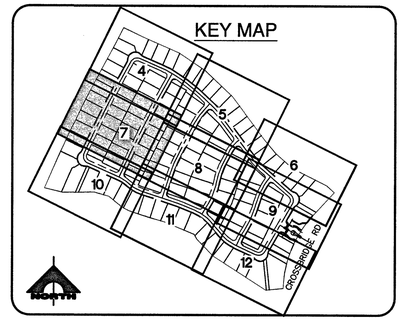
TITLE

SUMMERLIN VILLAGE 24
PARCEL I - DESIGN PLAN

DOC_33534331

06 OF 67
107Y 5092





MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

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

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/PRESS REC S/N# _____

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN) _____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION

VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

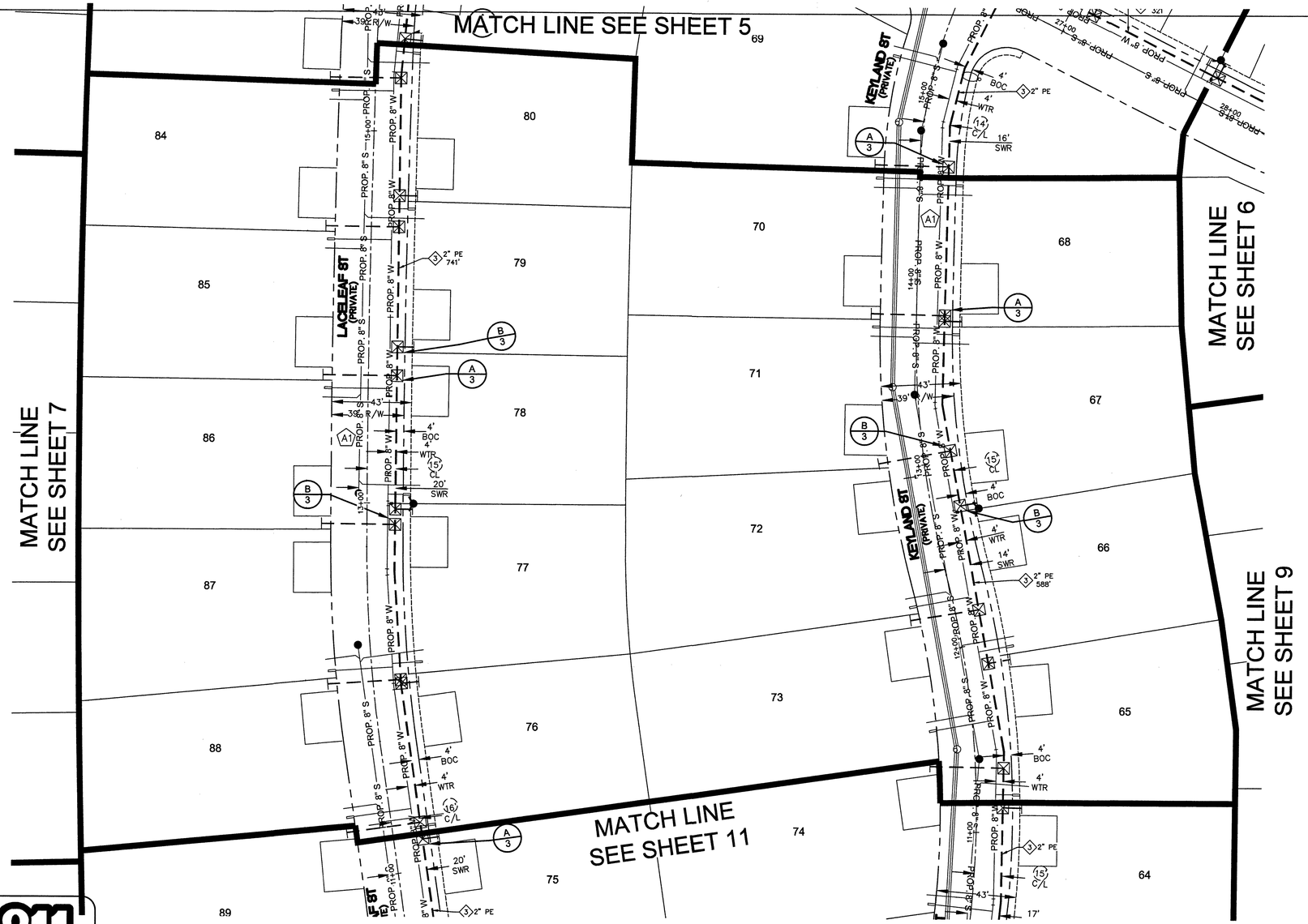
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 7 OF 13	SCALE: NTS		DATE: 09/20/18
DWN. BY: GCW	CHKD. BY: LRL		APPVD. BY:

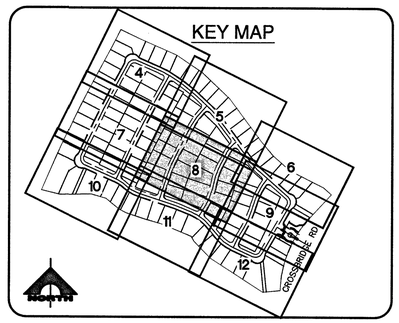
TITLE

SUMMERLIN VILLAGE 24
PARCEL I - DESIGN PLAN

DOC_33534331

61 OF 67
1074.05092





MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

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

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP

TEST METHOD: ☐ GAUGE ☐ CHART GAUGE/PRESS REC SN#

PIPE DIA. _____

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION

VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS

TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

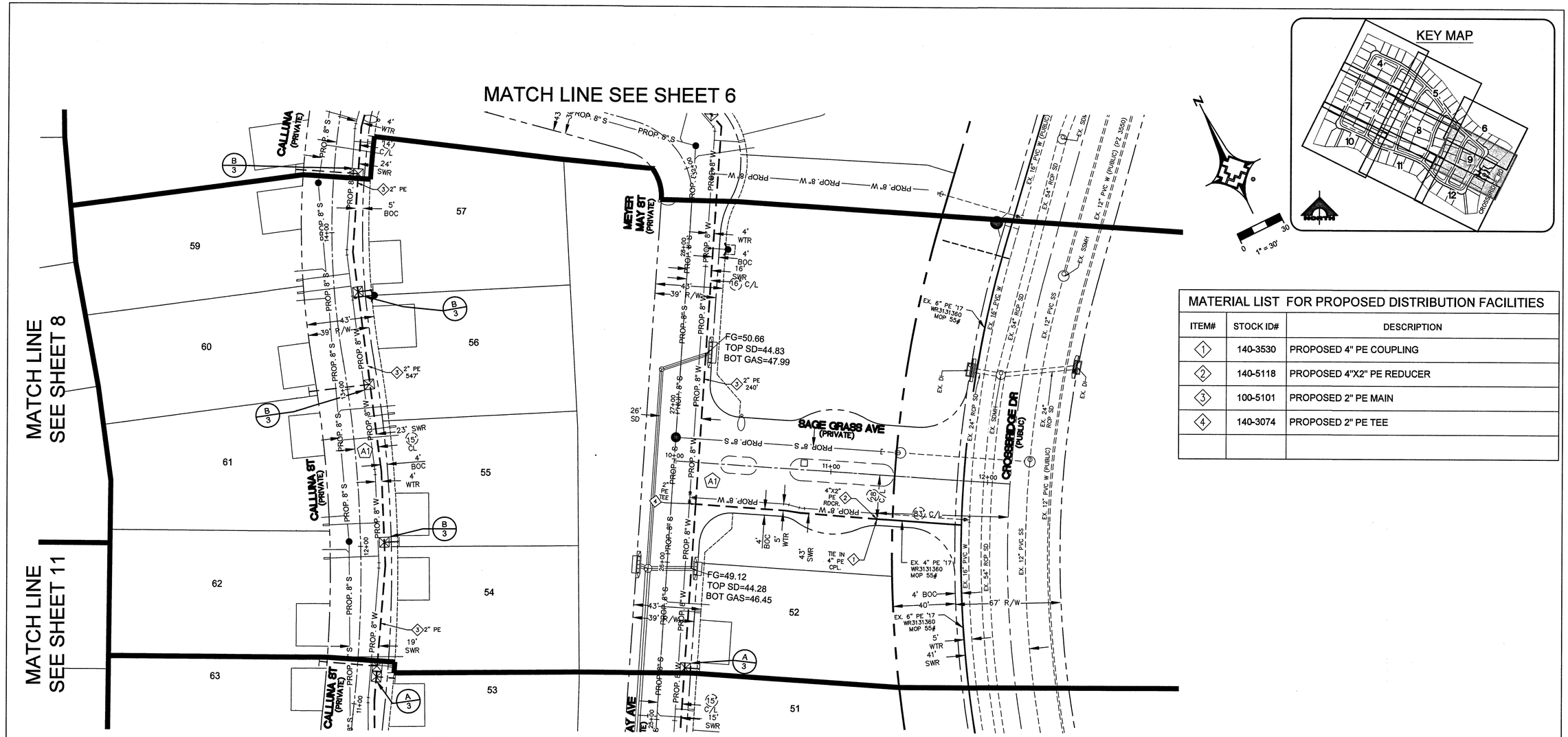
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 8 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

TITLE

SUMMERLIN VILLAGE 24 PARCEL I - DESIGN PLAN

DOC_33534331

62 OF 67
10745092



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	140-3530	PROPOSED 4" PE COUPLING
2	140-5118	PROPOSED 4"X2" PE REDUCER
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

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

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/PRESS REC SN#

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION

VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

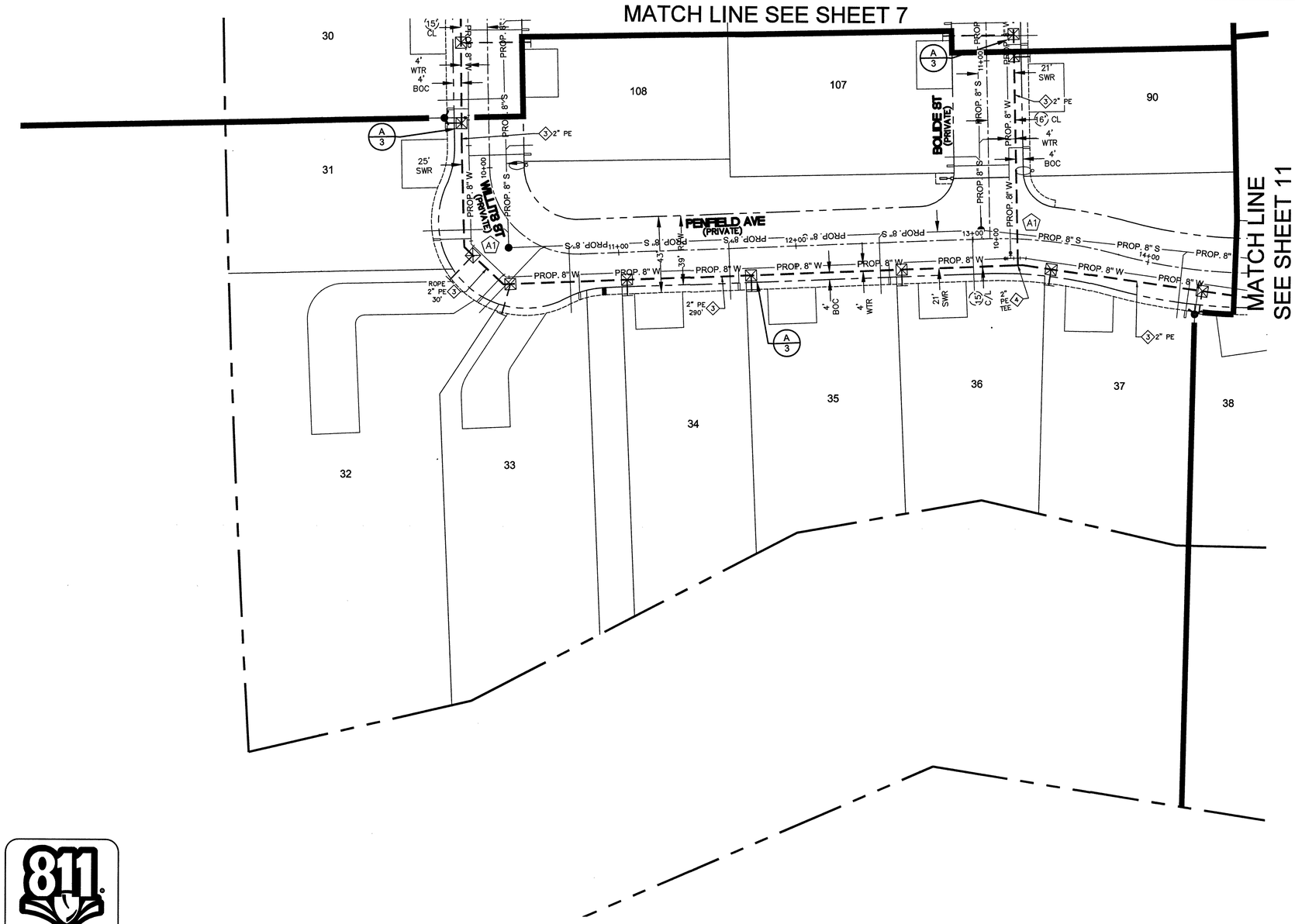
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 9 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

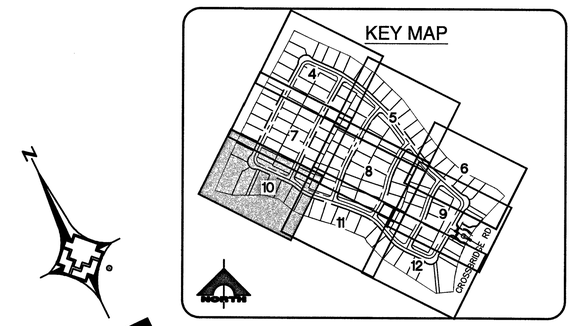
TITLE

SUMMERLIN VILLAGE 24 PARCEL I - DESIGN PLAN

DOC_33534331

03 OF 07
107Y5092





0 1" = 30' 30

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

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

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART ☐ GAUGE/PRESS REC SN#

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

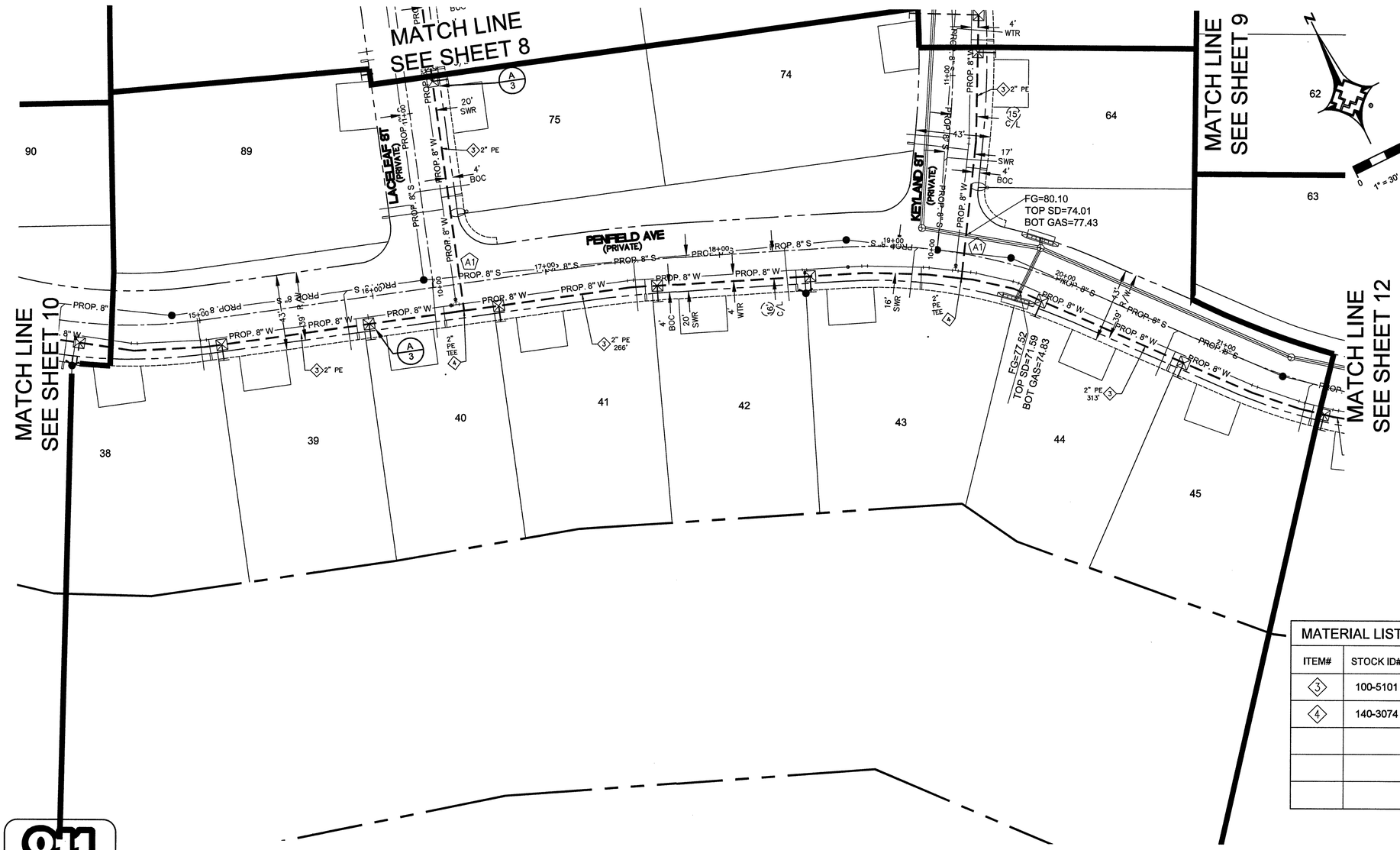
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 10 OF 13	SCALE: NTS		DATE: 09/20/18
DWN. BY: GCW	CHKD. BY: LRL		APPVD. BY:

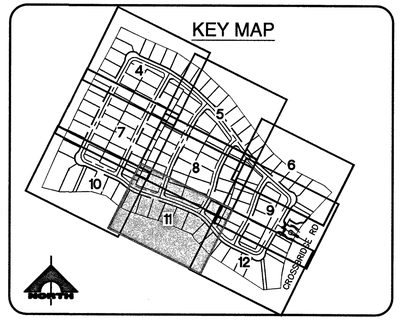
TITLE

SUMMERLIN VILLAGE 24
PARCEL I - DESIGN PLAN

DOC_33534331

64 OF 67
1074 5092





MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

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

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/PRESS REC SN# _____

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

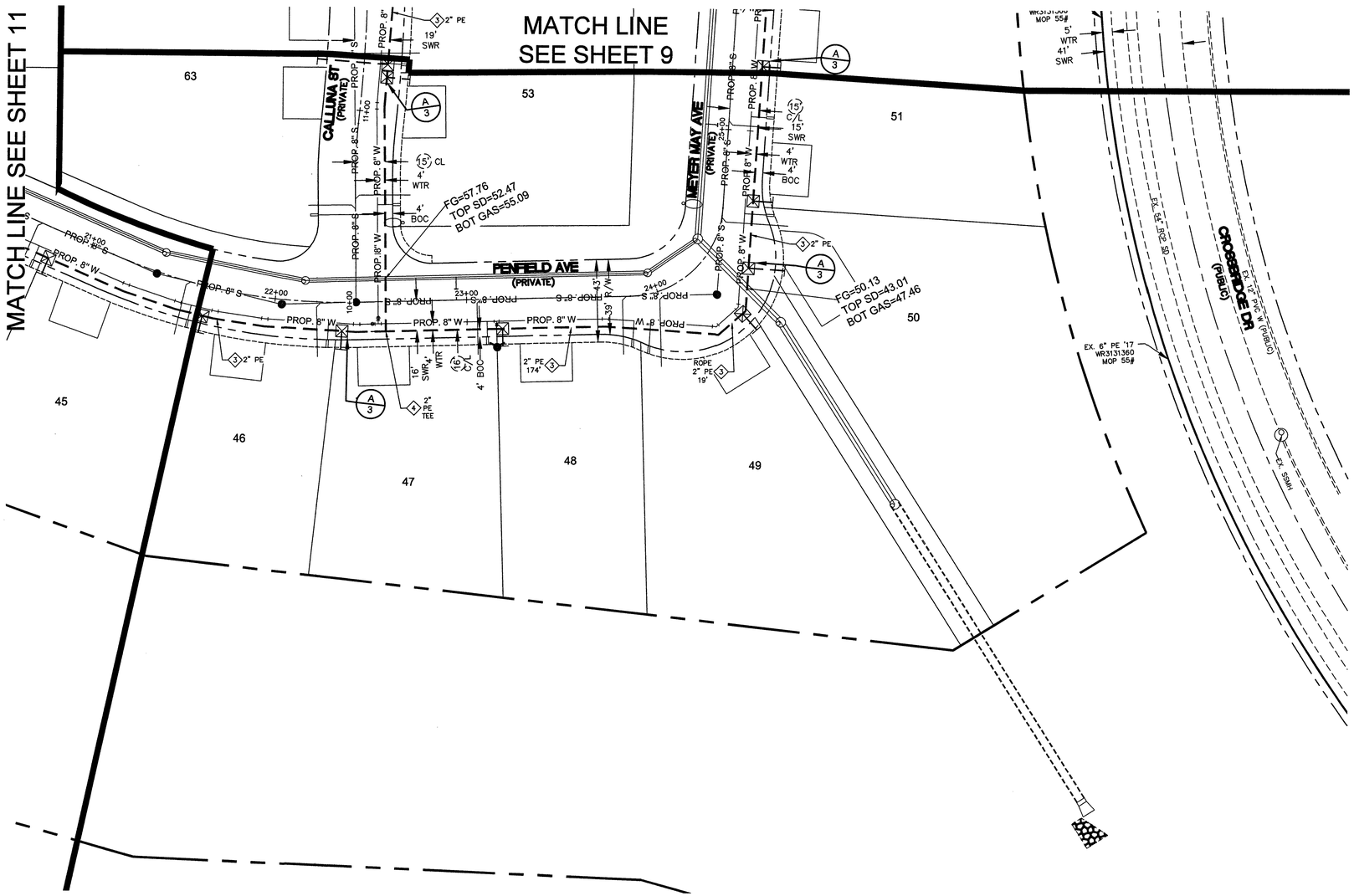
ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 11 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

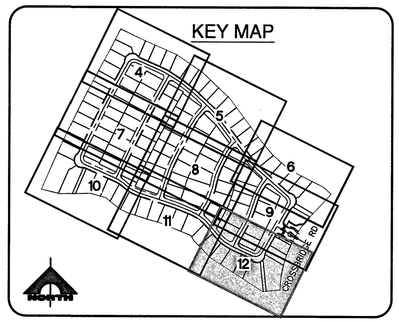
TITLE

SUMMERLIN VILLAGE 24
PARCEL I - DESIGN PLAN

DOC_33534331

65 OF 67
107 45092





MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
3	100-5101	PROPOSED 2" PE MAIN
4	140-3074	PROPOSED 2" PE TEE

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

RTC NOTES:

PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/PRESS REC SN#

PIPE LENGTH _____

PIPE TYPE _____

MIN. DURATION _____

TEST PRES. (PSIG): (MAX)_____ (MIN)_____

TIME: (START)_____ (STOP)_____

DATE: (START)_____ (STOP)_____

PERFORMED BY: _____

SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION

VISUAL INSPECTION CERTIFICATION

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

NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____

POSTED BY _____ DATE _____

POSTING QC'D BY _____ DATE _____

CONSTRUCTION

INSPECTOR _____

FOREMAN _____

REVIEWED BY _____

PERMIT INFORMATION

CITY OF LAS VEGAS

TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x559y512 x559y514

ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 12 OF 13	SCALE: NTS	DATE: 09/20/18	
DWN. BY: GCW	CHKD. BY: LRL	APPVD. BY:	

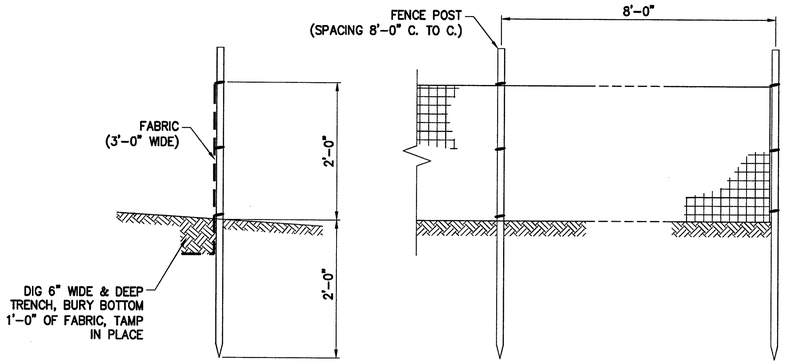
TITLE

SUMMERLIN VILLAGE 24 PARCEL I - DESIGN PLAN

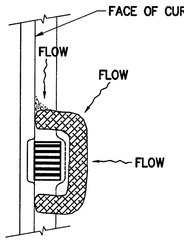
DOC_33534331

66 OF 67
1074592

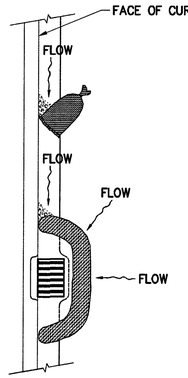
TYPICAL SWPPP BMP DETAILS



1 - SILT FENCE
N.T.S.



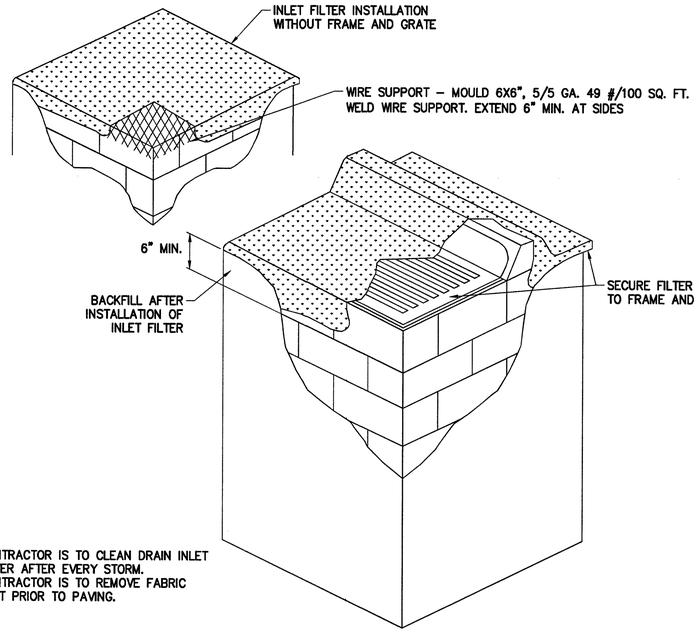
2 - FIBER ROLL
N.T.S.



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

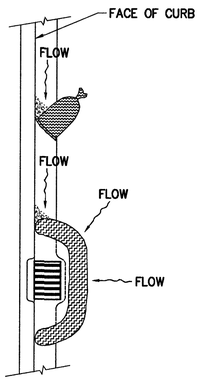
SWPPP NOTES

1. SOUTHWEST GAS CORPORATION. IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMP'S 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 DETAIL 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 BMP'S ON THIS SHEET DO NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.0/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITH SEVEN DAYS AFTER A STORM WATER 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.

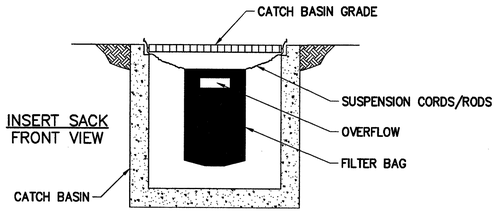


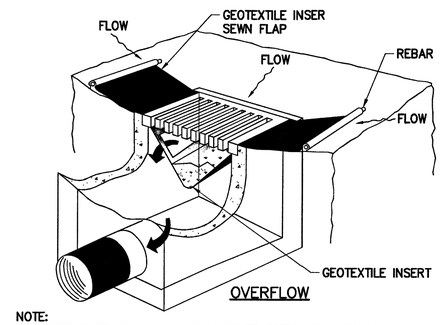
NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.

4 - DRAIN INLET FILTER
N.T.S.



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





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.

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

NO.	DESCRIPTION	BY	DATE	APPVD.
1.				
2.				
3.				
4.				

REVISIONS

SOUTHWEST GAS CORPORATION

TAX CODES	UNIT NO.	UNIT TYPE	INSTL. (PROPOSED)	RETIRED (PROPOSED)	INSTL. (COMPLETED)	RETIRED (COMPLETED)

PROPERTY UNITS

AS-BUILT DRAWING-PRESSURE TEST DATA

PIPE DIA. _____ TEST MEDIUM: ☐ AIR ☐ NITROGEN ☐ WATER ☐ SOAP — TEST METHOD: ☐ GAUGE ☐ CHART — GAUGE/ PRESS REC SN#
PIPE LENGTH _____
PIPE TYPE _____
MIN. DURATION _____
TEST PRES. (PSIG): (MAX)_____ (MIN)_____
TIME: (START)_____ (STOP)_____
DATE: (START)_____ (STOP)_____
PERFORMED BY: _____
SWG VERIFIED BY: _____

INDIVIDUAL PERFORMING VISUAL INSPECTION
VISUAL INSPECTION CERTIFICATION
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED
NAME _____ DATE _____

AS-BUILTS ACCEPTED BY _____ DATE _____
POSTED BY _____ DATE _____
POSTING QC'D BY _____ DATE _____

CONSTRUCTION
INSPECTOR _____
FOREMAN _____
REVIEWED BY _____

PERMIT INFORMATION
CITY OF LAS VEGAS
TAX CODE 02-0200

ISOLATION AREA	W.R. NO.
ISO_21 DIST_323	3705592
LOCATION	**ATLAS #/TILE #**
SEC 33 T20S R59E M.D.M.	x561y512, x561y514 x558y512 x558y514

ENGINEER/TECH: KAELAN TANIGAWA			PHONE: 702-365-2291
ACCOUNT REP: MAX HUGHES			PHONE: 702-365-2051
PROJECT CONTACT: MANNY PATTNI			PHONE: 702-891-5286
SHEET NO: 13 OF 13	SCALE: NTS		DATE: 09/20/18
DWN. BY: GCW	CHKD. BY: LRL		APPVD. BY:

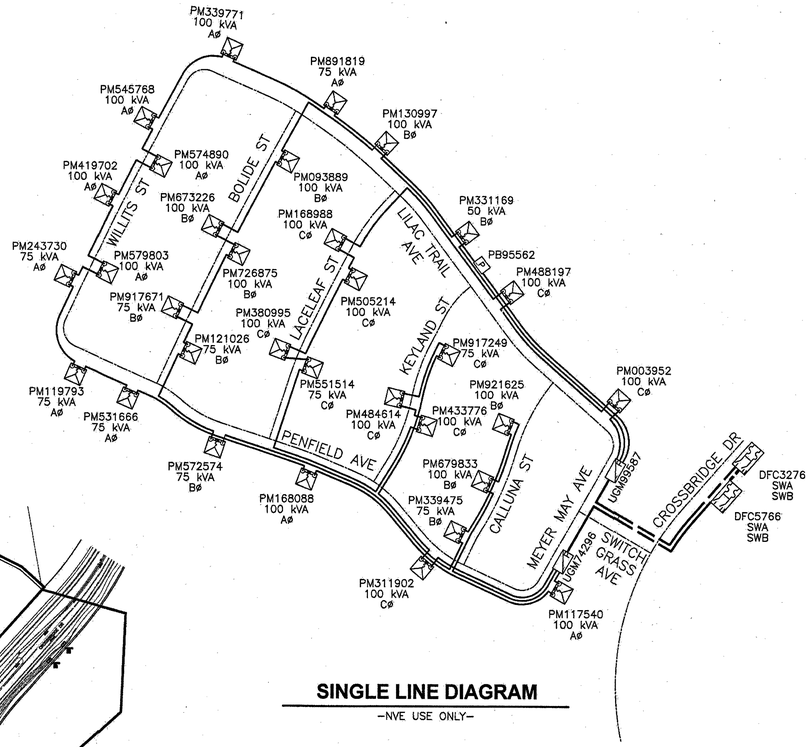
TITLE
SUMMERLIN VILLAGE 24
PARCEL I - TYPICAL
SWPPP BMP DETAILS

DOC_33534331

67 OF 67
1074 5092

OVERALL PROJECT

–NOT TO SCALE–



SINGLE LINE DIAGRAM

–NVE USE ONLY–

NVE STANDARDS

T,R,S: 20–59–22

APN: 13733810003

GENERAL NOTES:

ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.

APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETED 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS–G6.

2" PLASTIC CONDUIT BENDS (90', 45') WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90', 45') WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90', 45') WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

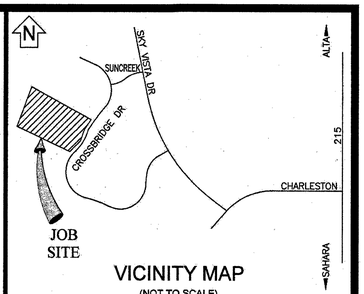
EXISTING STUB–OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB–OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE–MANDRILLED PRIOR TO FINAL RELEASE.

WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF–SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.



VICINITY MAP

(NOT TO SCALE)

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL 1-702-402-2929

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	SERVICE FLOP LOT #50 PER CUSTOMER REQUEST. PAGE 2 OF 9	5/9/2019	LM

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V 1ø POWER FOR NEW SUBDIVISION. 116 DETACHED SINGLE FAMILY LOTS WITH 320 AMP PANELS.

EXHIBIT 'A'

NVEnergy INFORMATION:

COORDINATOR: CUNNINGHAM, KATHY

PHONE: (702)402–6824 D.F. LOWELL, KEN

DESIGNER: KERN, ZACHARY

DCA: 285–8182, 219–5761

INSPECTOR: 702–402–3008 OR UGI@NVENERGY.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: PARDEE HOMES OF NEVADA

ENGINEER: GC WALLACE

CONTACT: WAGNER, DAVE ** 702–376–0526

APPROVAL DATE: 02/13/2019

GOVERNMENT INFORMATION:

AGENCY: CLV

APPROVAL DATE:

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.

CIVIL LINETYPE LEGEND

CENTERLINE

PROPERTY LINE/ROW

EDGE OF PAVEMENT

EDGE OF SIDEWALK

CURB

SEWER LINE — S — S — S — S —

WATER LINE — W — W — W — W —

COHW WATER LINE — COHW — COHW — COHW — COHW —

LVWD WATER LINE — LVWD — LVWD — LVWD — LVWD —

SNWA WATER LINE — SNWA — SNWA — SNWA — SNWA —

GAS LINE — GAS — GAS — GAS — GAS —

TELEPHONE LINE — TEL — TEL — TEL — TEL —

CABLE TV LINE — CATV — CATV — CATV — CATV —

CABLE TV LINE — FIBER — FIBER — FIBER —

STORM DRAIN LINE — SD — SD — SD — SD —

FIRE HYDRANT

SERVICE INDICATOR

SIGNAL LIGHT

STREET LIGHT

NOTICE:

THIS EXHIBIT IS THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF NV ENERGY AND MAY NOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF NV ENERGY.

THE IMAGES HEREON ARE NOT ORTHOPHOTOGRAPHIC. ANY LOCATIONS DEPICTED HEREON ARE APPROXIMATE ONLY. THIS EXHIBIT WAS CREATED FOR GENERAL PRESENTATION AND DISCUSSION PURPOSES ONLY AND IS NOT PURPORTED TO REPRESENT ANY MEASURE OF ACCURACY. THIS EXHIBIT IS NOT TO BE UTILIZED IN ANY MANNER NOT CONSISTENT WITH THE INTENT OF ITS' CREATION AS STATED ABOVE.

CONSTRUCTION / INSPECTION REQUIREMENTS

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstructionS/servicestandards.cfm

NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:
1. BOTTOM SAND AND CONDUIT INSTALLED
2. TOP SAND INSTALLED
3. BACKFILL INSTALLED

CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).

NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.

NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:
- [INSTRUMENT–RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com)
- APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
- THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
- METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI–C).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstruction5/developerdashboard.cfm

!!!! CAUTION !!!!

ENERGIZED CABLES...
CALL BEFORE YOU DIG

METER LOCATION & ACCESS REQUIREMENTS

(NV ENERGY STANDARDS RPI–2 & RPI–G)

MIN. 3'X3' CLEAR, LEVEL SPACE (SAFE WORK SPACE) REQUIRED DIRECTLY IN FRONT OF METER. THIS SPACE SHALL NOT BE PART OF A DRIVEWAY OR SUBJECT TO VEHICULAR TRAFFIC.

SERVICE POINT TO BE NO GREATER THAN 100' FROM BACK OF CURB OR PUBLIC EASEMENT (NO GREATER THAN 25' FROM SIDE STREET OR ALLEY).

A SERVICE PEDESTAL MUST BE 5' MIN. FROM BACK OF CURB, 6' MIN FROM DRIVEWAY OR OTHER TRAFFIC AREA.

BOTH SERVICE POINT AND SAFE WORK SPACE TO BE DIRECTLY VISIBLE FROM BACK OF CURB OR PUBLIC EASEMENT, AND MUST BE READILY ACCESSIBLE TO NV ENERGY AT ALL TIMES WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT. FENCES, GATES, WALLS, OR OTHER OBSTRUCTIONS IN FRONT OF THE SERVICE POINT ARE PROHIBITED.

VISIBILITY, ACCESSIBILITY, AND SAFE WORK SPACE MUST BE MAINTAINED FOR THE ENTIRE LIFE OF THE SERVICE.

CONDUIT SEALING REQUIREMENT:

CONDUIT SEALING PER NESC AND OR NEC LATEST VERSION:
ALL ELECTRIC CONDUITS ENTERING BUILDING THROUGH OR PENETRATING CONCRETE SLAB SHALL BE SEALED AT BOTH ENDS WITH EXPANDING PLUG(S) AFTER CONDUIT IS MANDRILLED.
NVE WILL INSTALL A PERMANENT SEAL, AFTER CONDUCTORS ARE INSTALLED.

CUSTOMER NOTE:

UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMERS CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

NOTE:

NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

NVEnergy REQUIRES 24 HOUR ACCESS TO EQUIPMENT

RTC NOTES:

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

⟨1⟩	500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
⟨2⟩	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
⟨3⟩	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W
⟨4⟩	500.4	OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT. 60' R.O.W OR LESS
⟨5⟩	500.5	OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
⟨6⟩	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
⟨7⟩	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
⟨8⟩	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL – PAVED AREAS
⟨9⟩	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL – PAVED AREAS
⟨11⟩	BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.	
⟨12⟩	234	SIDEWALK
⟨13⟩	506	UTILITY POTHOLE REPAIR
⟨14⟩	216	"L" TYPE CURB AND GUTTER

NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING PERFORMED ON THIS PROJECT BY NV ENERGY CREWS CAN BE DONE DURING THE DAYTIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

THIS PROJECT IS PART OF MASTER PLAN UMBRELLA ID# 3000725849 AND IS CONTINGENT UPON THE COMPLETION OF ADDENDUM(S) _____, _____ _____, AND _____

FIRE HYDRANT CLEARANCE:

6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.
6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVEnergy STD. RS–5

SOURCE FC OR RISER	PH.	PROJECT CONNECTED LOAD (3ø) EX: KVA	ADDED KVA	TOTAL KVA	LOOP FC OR RISER
DFC5766	A	0	1000	1000	DFC3276
UGM74296	B	0	1050	1050	UGM99587
BLT1208	C	0	850	850	BLT1218

UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 4/0 AL. TRI.

ALL TRANSFORMERS: 7200V–120/240V–1ø PM

LARGEST A/C UNIT SIZE: 5 TONS

NUMBER OF UNITS: 116

MAIN SIZE: 320 AMPS

ESTIMATED KVA PER UNIT: 22.1 KVA

SQ. FT. OF LARGEST UNIT: 4800 FT²

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

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APPROVAL BY: 6/9/19 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): 402–6864

NVEnergy.

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

L18–02530

PROJ #3003019560	SCALE: 1"=30'
SHEET # 1 OF 9	DATE:11/26/2018

lm21910

5/9/2019 6:22 PM

1 REVISION(S)

SHEET 60 OF 95
10745092

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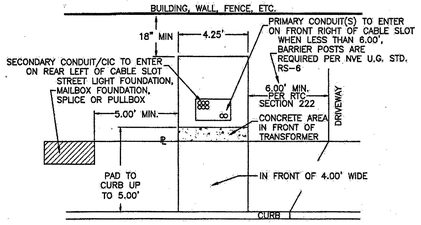
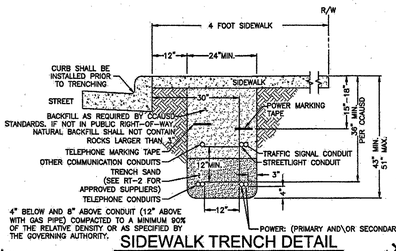


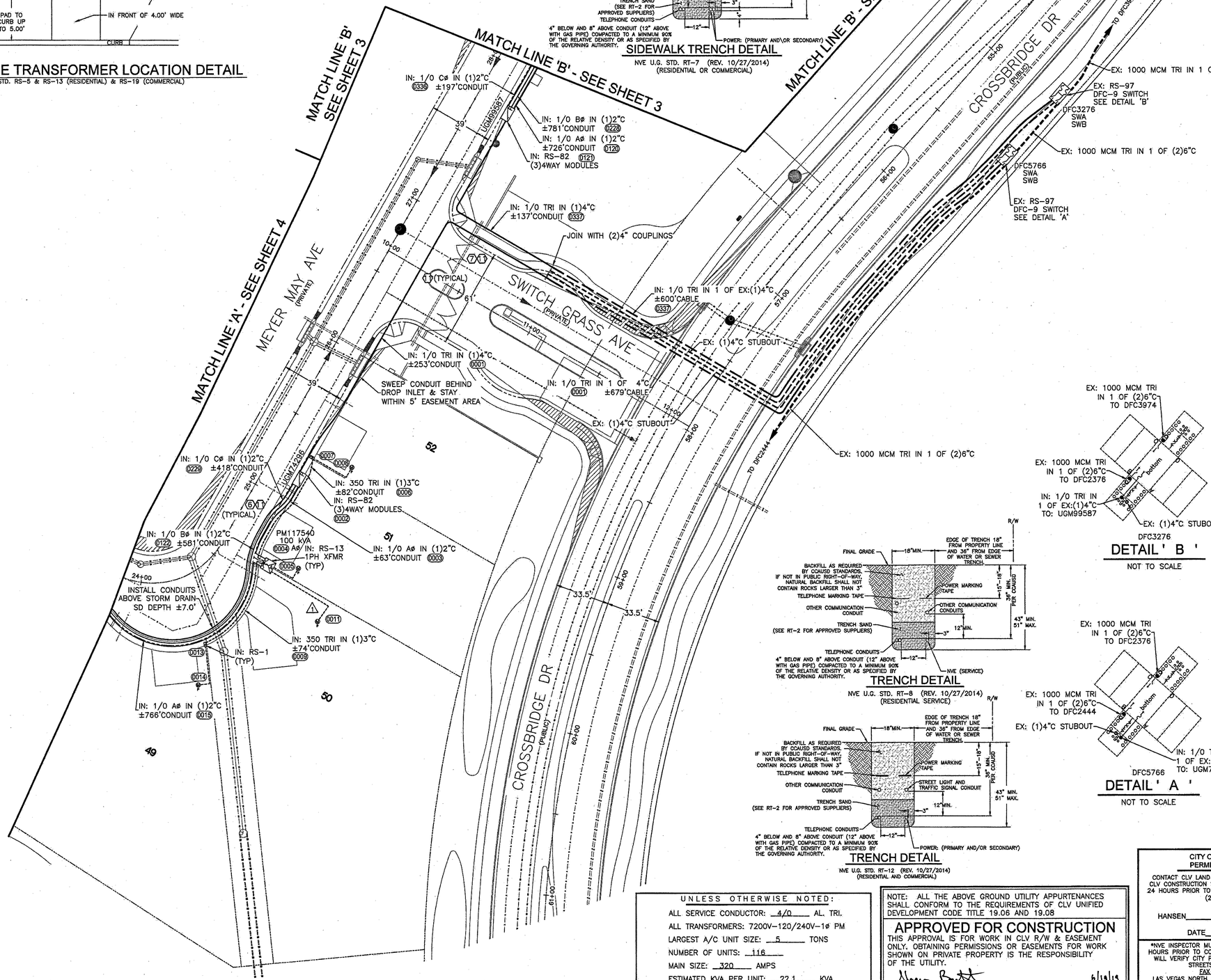
SINGLE-PHASE TRANSFORMER LOCATION DETAIL

NVE U.G. STD. RS-5 & RS-13 (RESIDENTIAL) & RS-19 (COMMERCIAL)



SIDEWALK TRENCH DETAIL

NVE U.G. STD. RT-7 (REV. 10/27/2014)
(RESIDENTIAL OR COMMERCIAL)



DETAIL ' B '

NOT TO SCALE

TRENCH DETAIL

NVE U.G. STD. RT-8 (REV. 10/27/2014)
(RESIDENTIAL SERVICE)

DETAIL ' B '

NOT TO SCALE

DETAIL ' A '

NOT TO SCALE

TRENCH DETAIL

NVE U.G. STD. RT-12 (REV. 10/27/2014)
(RESIDENTIAL AND COMMERCIAL)

UNLESS OTHERWISE NOTED:

ALL SERVICE CONDUCTOR: 4/0 AL. TRI.
ALL TRANSFORMERS: 7200V-120/240V-1ø PM
LARGEST A/C UNIT SIZE: 5 TONS
NUMBER OF UNITS: 116
MAIN SIZE: 320 AMPS
ESTIMATED KVA PER UNIT: 22.1 KVA
SQ. FT. OF LARGEST UNIT: 4800 FT²

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

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HANSEN_____

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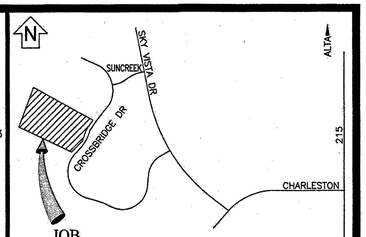
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864

T,R,S: 20-59-22

APN: 13733810003



VICINITY MAP

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	SERVICE FLOP LOT #50 PER CUSTOMER REQUEST. PAGE 2 OF 9	5/9/2019	LM

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V 1ø POWER FOR NEW SUBDIVISION. 116 DETACHED SINGLE FAMILY LOTS WITH 320 AMP PANELS.

EXHIBIT 'A'

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DESIGNER: KERN, ZACHARY
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
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JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:
APPLICANT: PARDEE HOMES OF NEVADA
ENGINEER: GC WALLACE
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 02/13/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
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NVEnergy.

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 2 OF 9	DATE:11/26/2018

lm21910

5/9/2019 6:22 PM

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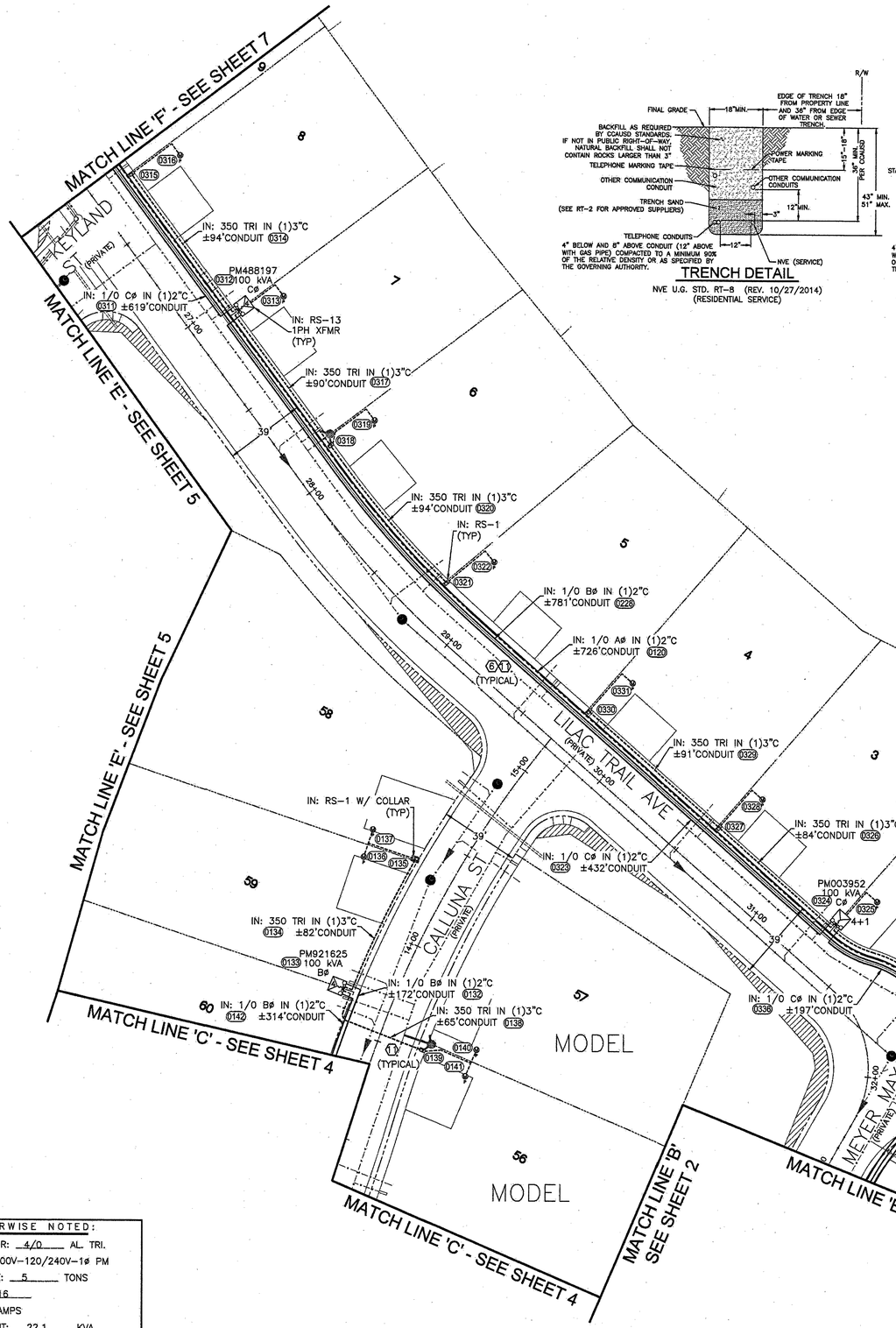
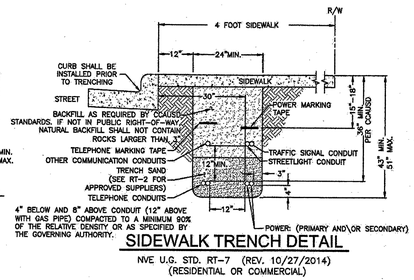
SHEET 69 OF 95
10745092

1 REVISION(S)



TRENCH DETAIL

NVE U.G. STD. RT-8 (REV. 10/27/2014)
(RESIDENTIAL SERVICE)



SIDEWALK TRENCH DETAIL

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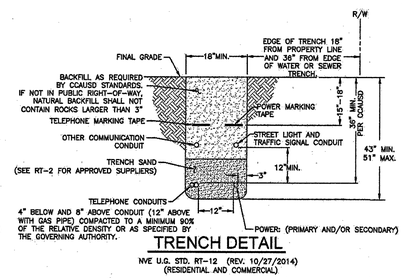

TRENCH DETAIL

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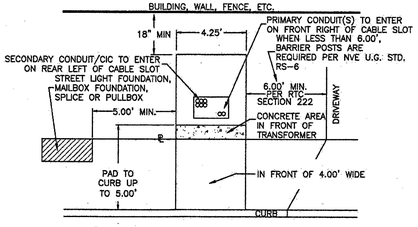
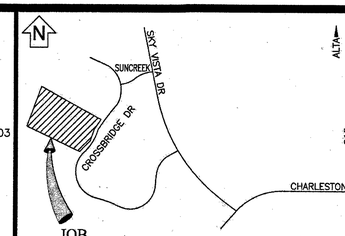


SINGLE-PHASE TRANSFORMER LOCATION DETAIL

NVE U.G. STD. RS-5 & RS-13 (RESIDENTIAL) & RS-19 (COMMERCIAL)

T,R,S: 20-59-22

APN: 13733810003



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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
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STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V 1⌀ POWER FOR NEW SUBDIVISION. 116 DETACHED SINGLE FAMILY LOTS WITH 320 AMP PANELS.

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JPA ADMIN PHONE: N/A JPA#: N/A

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ENGINEER: GC WALLACE
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 02/13/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
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CITY OF LAS VEGAS
PERMIT REQUIRED*

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HANSEN

DATE

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UNLESS OTHERWISE NOTED:
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ALL TRANSFORMERS: 7200V-120/240V-1⌀ PM
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NUMBER OF UNITS: 116
MAIN SIZE: 320 AMPS
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APPROVAL BY: DATE 6/19/19

NVEnergy.

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 3 OF 9	DATE:11/26/2018

1 REVISION(S)

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5/9/2019 6:22 PM

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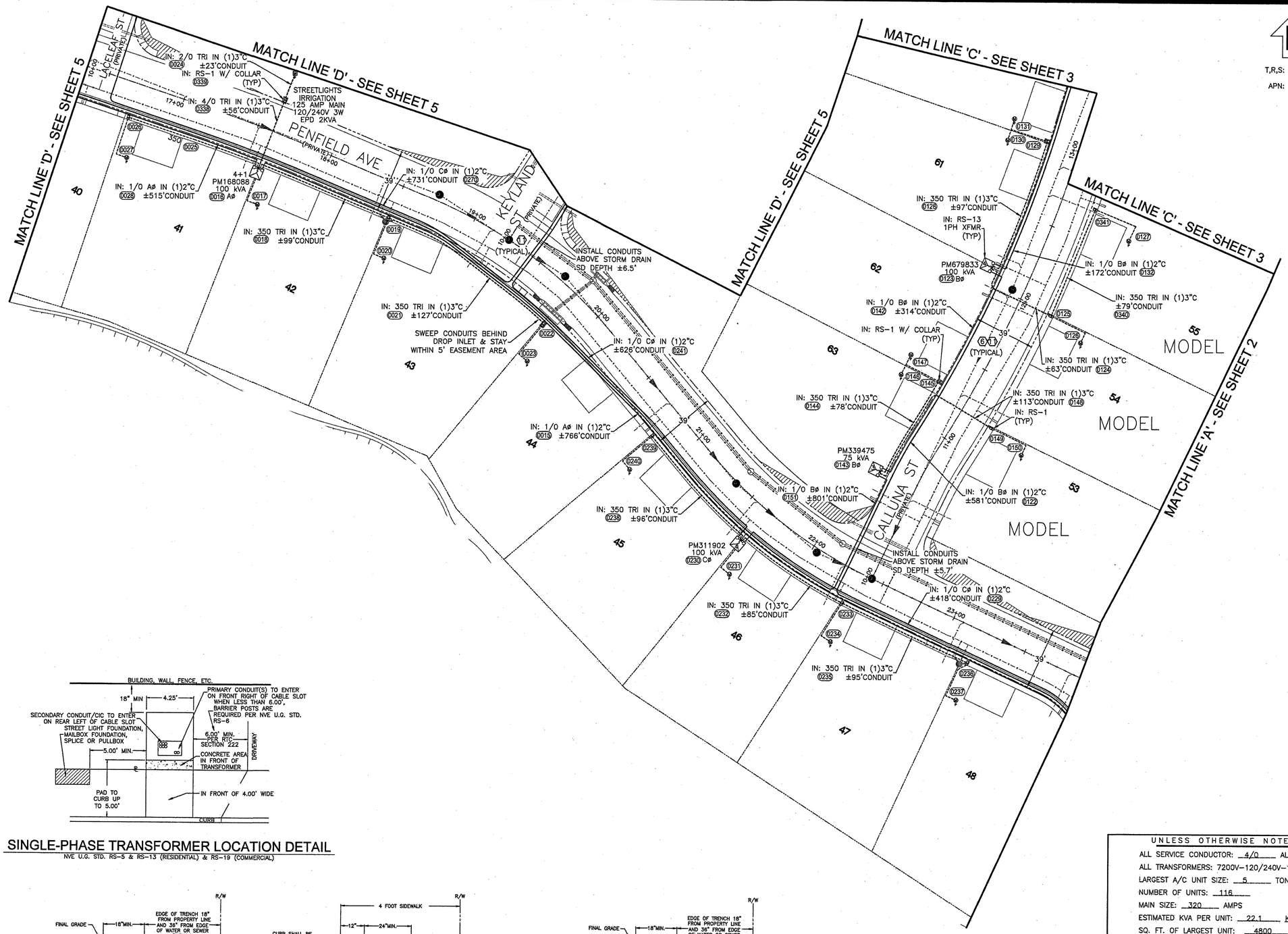
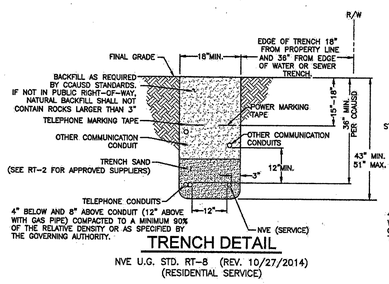
SHEET 70 OF 95
10745092



SINGLE-PHASE TRANSFORMER LOCATION DETAIL

NVE U.G. STD. RS-5 & RS-13 (RESIDENTIAL) & RS-19 (COMMERCIAL)



TRENCH DETAIL

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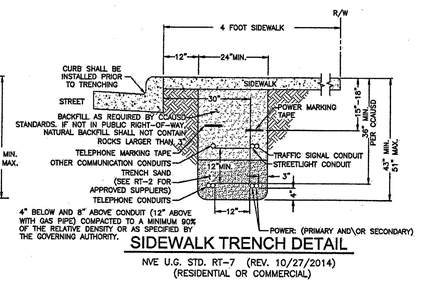

SIDEWALK TRENCH DETAIL

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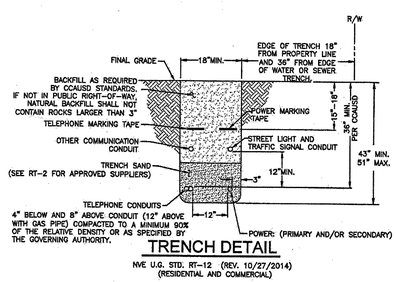


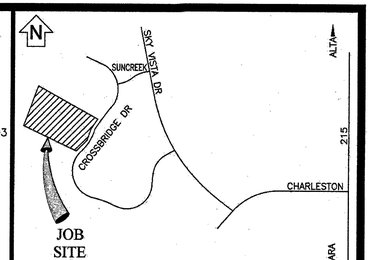
TRENCH DETAIL

NVE U.G. STD. RT-12 (REV. 10/27/2014)
(RESIDENTIAL AND COMMERCIAL)

N

T,R,S: 20-59-22

APN: 13733810003



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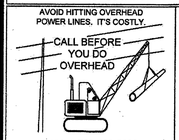

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	SERVICE FLOP LOT #50 PER CUSTOMER REQUEST. PAGE 2 OF 9	5/9/2019	LM

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V 1ø POWER FOR NEW SUBDIVISION. 116 DETACHED SINGLE FAMILY LOTS WITH 320 AMP PANELS.

EXHIBIT 'A'

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CUSTOMER INFORMATION:

APPLICANT: PARDEE HOMES OF NEVADA
ENGINEER: GC WALLACE
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 02/13/2019

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APPROVAL BY: DATE 6/19/19

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NVEnergy

SUMMERLIN VILLAGE 24 - PARCEL I

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PROJ #3003019560	SCALE: 1"=30'
SHEET # 4 OF 9	DATE:11/26/2018

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5/9/2019 6:22 PM

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SHEET 7 OF 95
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TRENCH DETAIL

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TRENCH DETAIL

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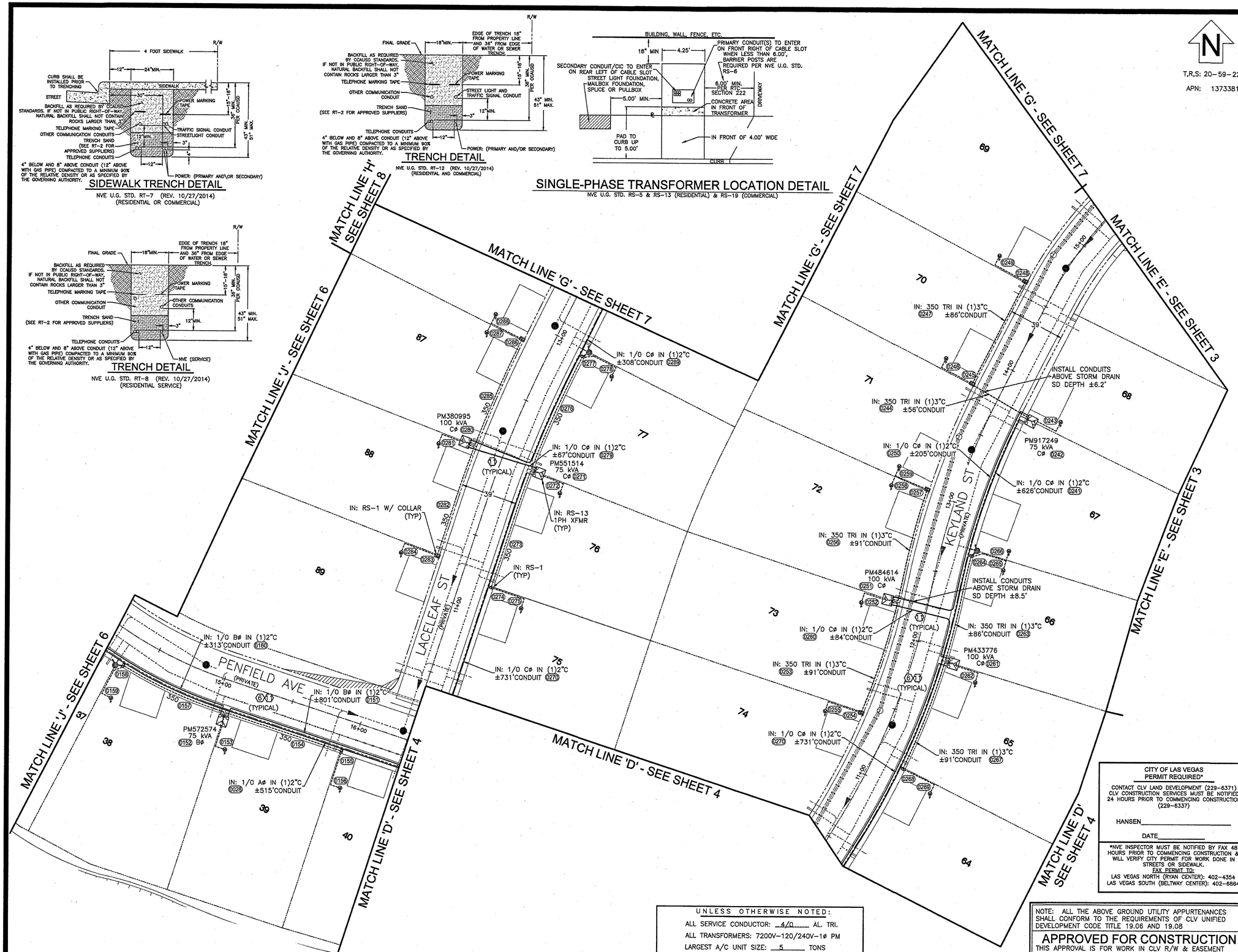

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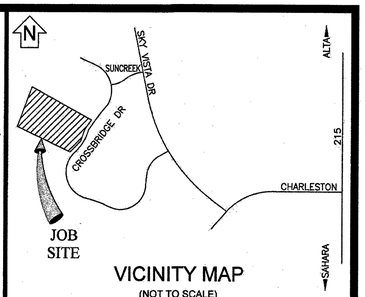

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STANDARD DCA

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APPROVAL BY: DATE

NVEnergy

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 5 OF 9	DATE:11/26/2018

1 REVISION(S)

5/9/2019 6:22 PM lm21910

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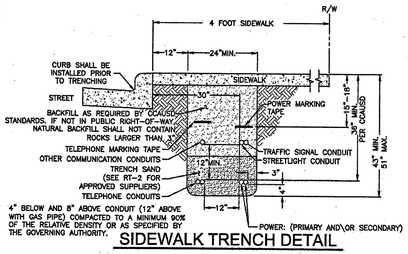
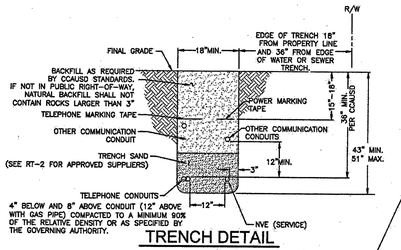
SHEET 72 OF 95
10745092



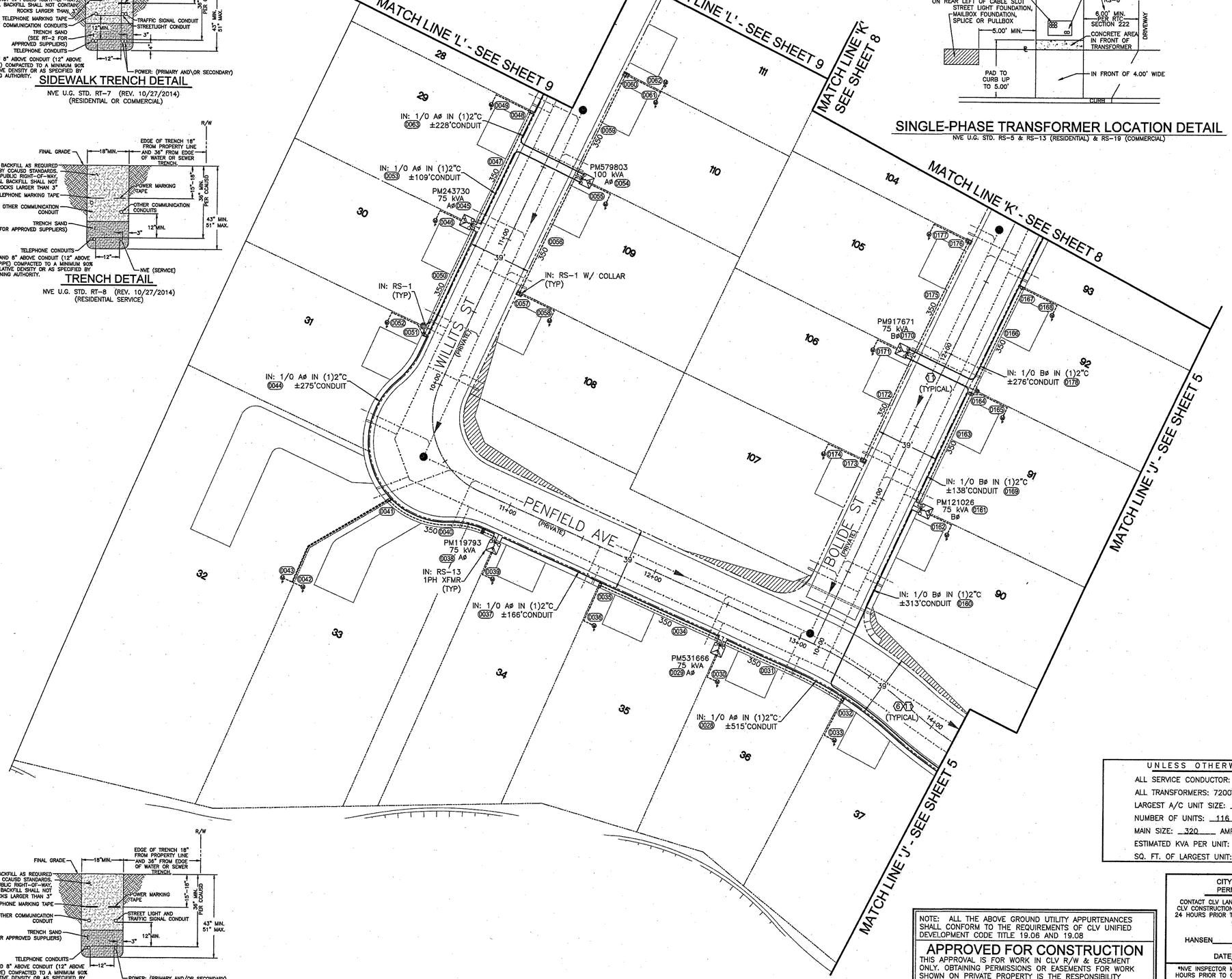
SIDEWALK TRENCH DETAIL

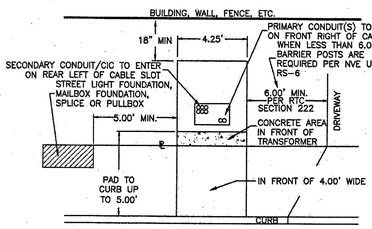
NVE U.G. STD. RT-7 (REV. 10/27/2014)
(RESIDENTIAL OR COMMERCIAL)



TRENCH DETAIL

NVE U.G. STD. RT-8 (REV. 10/27/2014)
(RESIDENTIAL SERVICE)



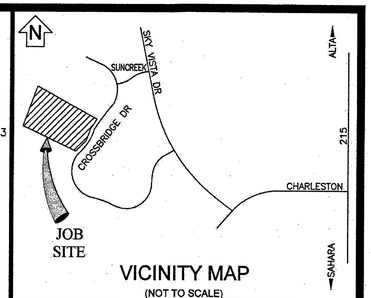


SINGLE-PHASE TRANSFORMER LOCATION DETAIL

NVE U.G. STD. RS-5 & RS-13 (RESIDENTIAL) & RS-19 (COMMERCIAL)

T,R,S: 20-59-22

APN: 13733810003



VICINITY MAP

(NOT TO SCALE)

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	SERVICE FLOP LOT #50 PER CUSTOMER REQUEST. PAGE 2 OF 9	5/9/2019	LM

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V 1ø POWER FOR NEW SUBDIVISION. 116 DETACHED SINGLE FAMILY LOTS WITH 320 AMP PANELS.

EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: CUNNINGHAM, KATHY
PHONE: (702)402-6824 D.F. LOWELL, KEN
DESIGNER: KERN, ZACHARY
DCA: 285-8182, 219-5761
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.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: PARDEE HOMES OF NEVADA
ENGINEER: GC WALLACE
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 02/13/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE:

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UNLESS OTHERWISE NOTED:
ALL SERVICE CONDUCTOR: 4/0 AL. TRI.
ALL TRANSFORMERS: 7200V-120/240V-1ø PM
LARGEST A/C UNIT SIZE: 5 TONS
NUMBER OF UNITS: 116
MAIN SIZE: 320 AMPS
ESTIMATED KVA PER UNIT: 22.1 KVA
SQ. FT. OF LARGEST UNIT: 4800 FT²

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APPROVAL BY: DATE 6/18/19

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): 402-6864

NVEnergy

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 6 OF 9	DATE:11/26/2018

1 REVISION(S)

5/9/2019 6:22 PM lm21910

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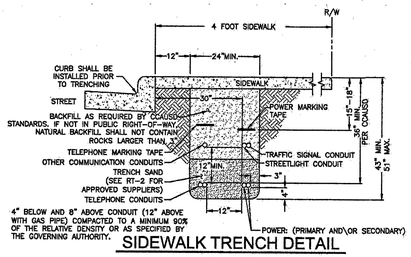
SHEET 73 OF 95
10745092



SIDEWALK TRENCH DETAIL

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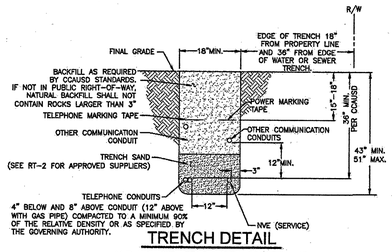
(RESIDENTIAL OR COMMERCIAL)



TRENCH DETAIL

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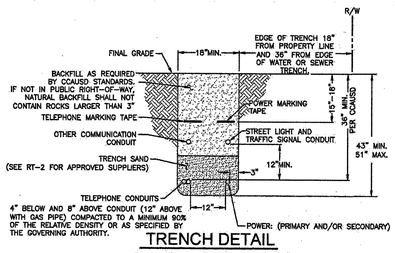
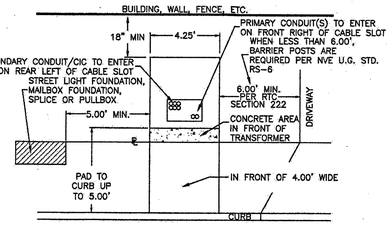
(RESIDENTIAL SERVICE)



TRENCH DETAIL

NVE U.G. STD. RT-12 (REV. 10/27/2014)
(RESIDENTIAL AND COMMERCIAL)



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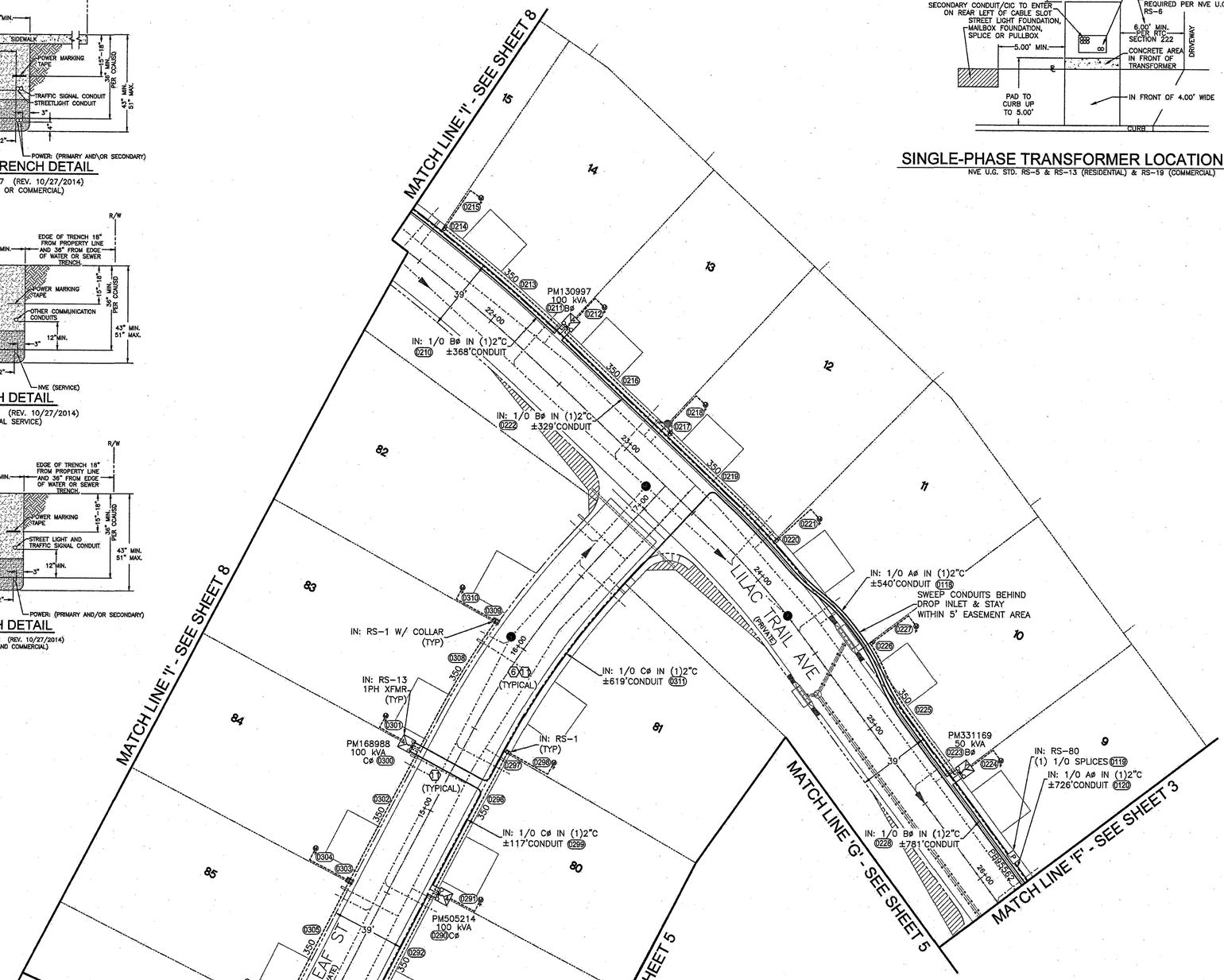
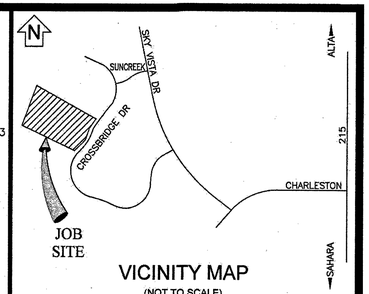


T,R,S: 20-59-22

APN: 13733810003



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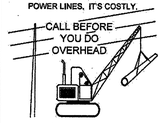

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	SERVICE FLOP LOT #50 PER CUSTOMER REQUEST. PAGE 2 OF 9	5/9/2019	LM

STANDARD DCA

PROJECT PURPOSE:

TO PROVIDE 120/240V 1⌀ POWER FOR NEW SUBDIVISION. 116 DETACHED SINGLE FAMILY LOTS WITH 320 AMP PANELS.

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CONTACT: WAGNER, DAVE ** 702-376-0526
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NVEnergy

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 7 OF 9	DATE:11/26/2018

UNLESS OTHERWISE NOTED:
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ALL TRANSFORMERS: 7200V-120/240V-1⌀ PM
LARGEST A/C UNIT SIZE: 5 TONS
NUMBER OF UNITS: 116
MAIN SIZE: 320 AMPS
ESTIMATED KVA PER UNIT: 22.1 KVA
SQ. FT. OF LARGEST UNIT: 4800 FT²

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APPROVAL BY: 6/19/19 DATE

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PERMIT REQUIRED*

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HANSEN

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SHEET 7 OF 9
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1 REVISION(S)

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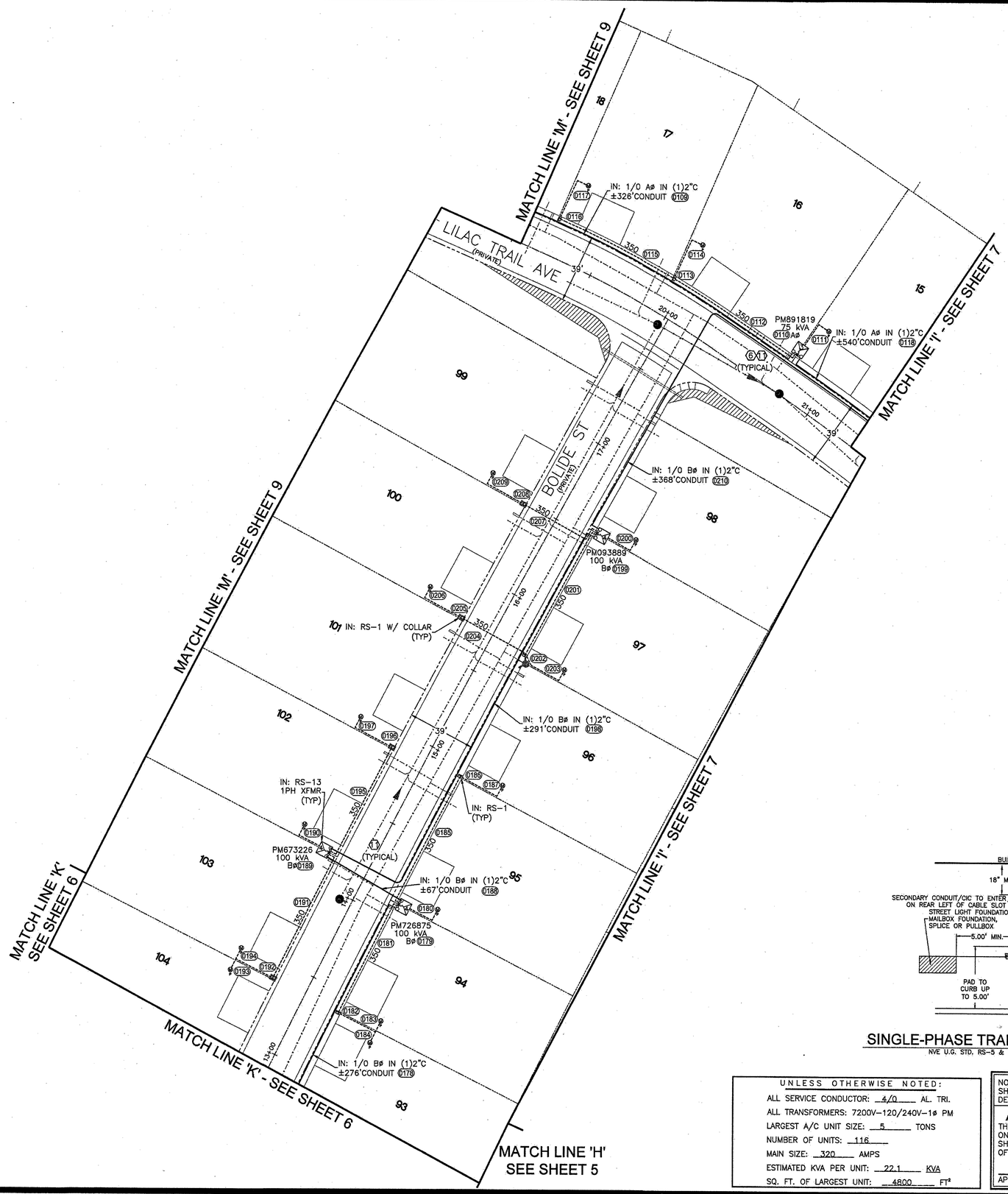

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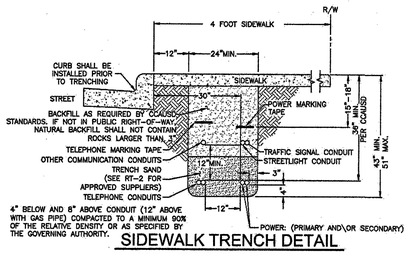
T,R,S: 20–59–22

APN: 13733810003



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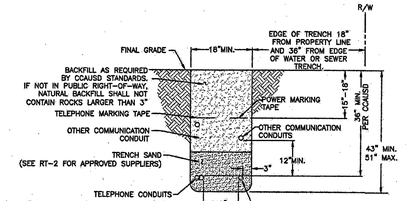

TRENCH DETAIL

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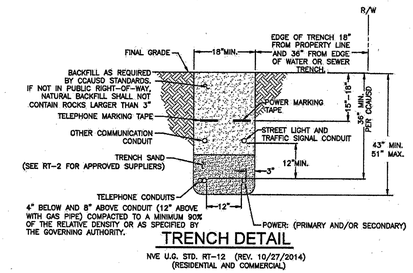

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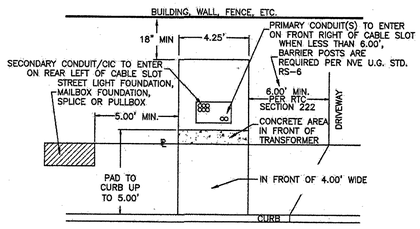

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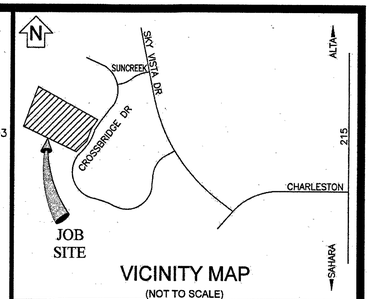

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REVISIONS

NO.	DESCRIPTION	DATE	REV BY
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STANDARD DCA

PROJECT PURPOSE:

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ENGINEER: GC WALLACE
CONTACT: WAGNER, DAVE ** 702-376-0526
APPROVAL DATE: 02/13/2019

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SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 8 OF 9	DATE:11/26/2018

lm21910

5/9/2019 @ 2:22 PM

1 REVISION(S)

SHEET 75 OF 95
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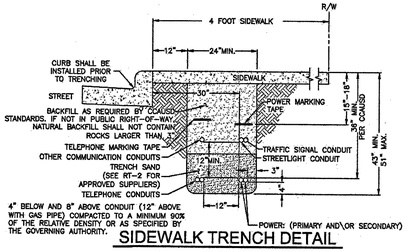

SIDEWALK TRENCH DETAIL

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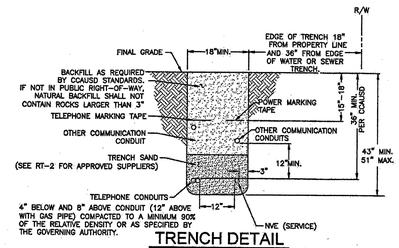

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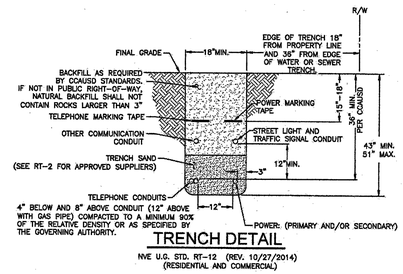

TRENCH DETAIL

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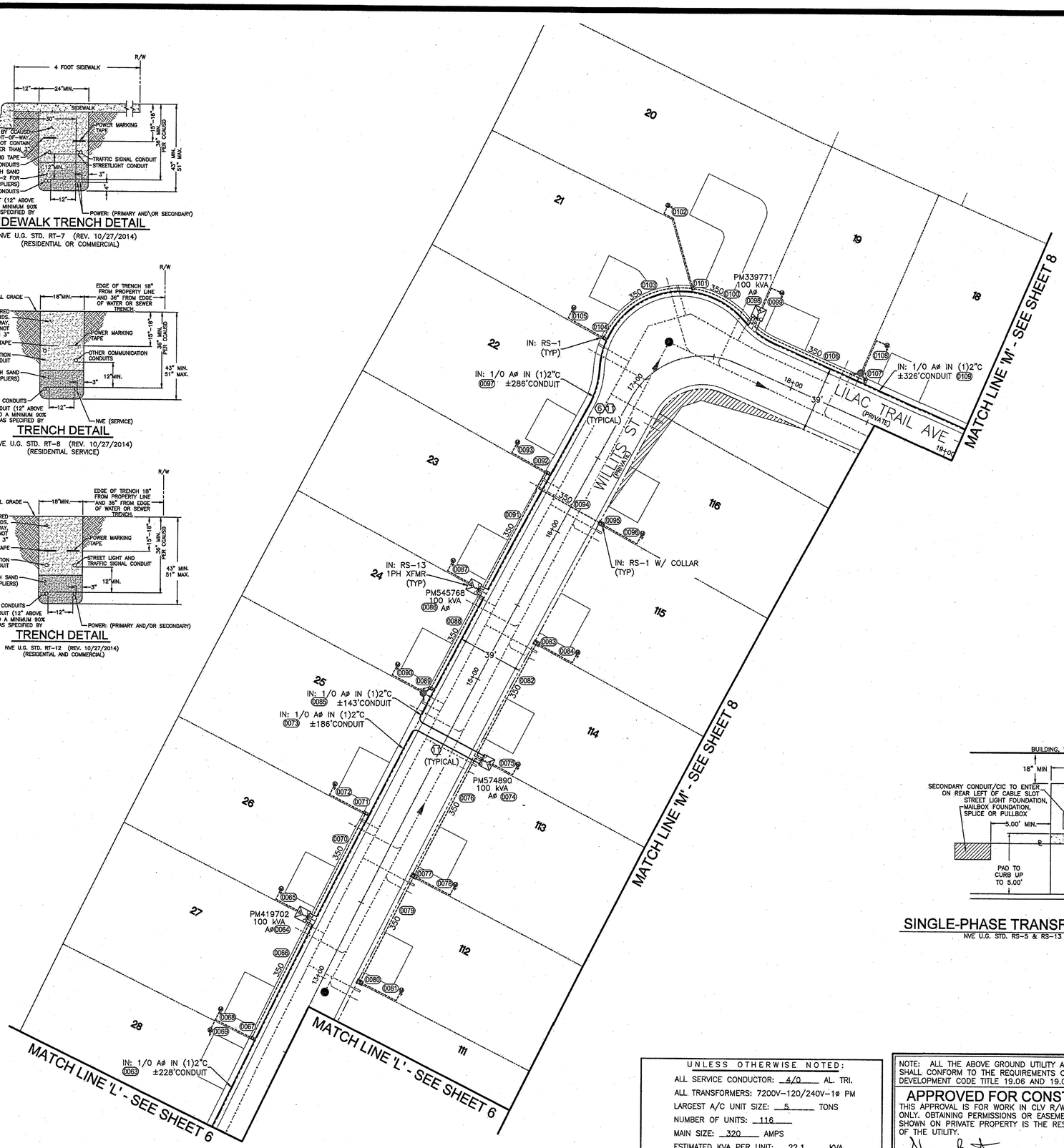

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T,R,S: 20-59-22

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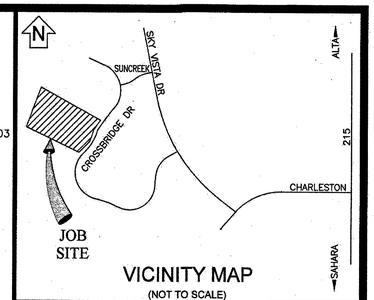

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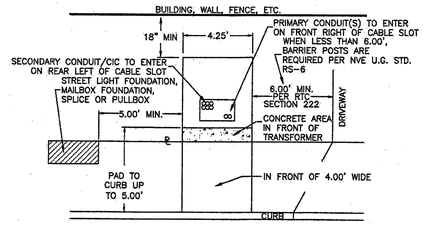
AGENCY: CLV
APPROVAL DATE:

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.



SINGLE-PHASE TRANSFORMER LOCATION DETAIL

NVE U.G. STD. RS-5 & RS-13 (RESIDENTIAL) & RS-19 (COMMERCIAL)

UNLESS OTHERWISE NOTED:
ALL SERVICE CONDUCTOR: 4/0 AL. TRI.
ALL TRANSFORMERS: 7200V-120/240V-1Ø PM
LARGEST A/C UNIT SIZE: 5 TONS
NUMBER OF UNITS: 116
MAIN SIZE: 320 AMPS
ESTIMATED KVA PER UNIT: 22.1 KVA
SQ. FT. OF LARGEST UNIT: 4800 FT²

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
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APPROVAL BY: DATE 6/19/19

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): 402-6864

NVEnergy

SUMMERLIN VILLAGE 24 - PARCEL I

CROSSBRIDGE AND SWITCH GRASS

PROJ #3003019560	SCALE: 1"=30'
SHEET # 9 OF 9	DATE:11/26/2018

1 REVISION(S)

5/9/2019 6:22 PM lm21910

SHEET 76 OF 95
10745092

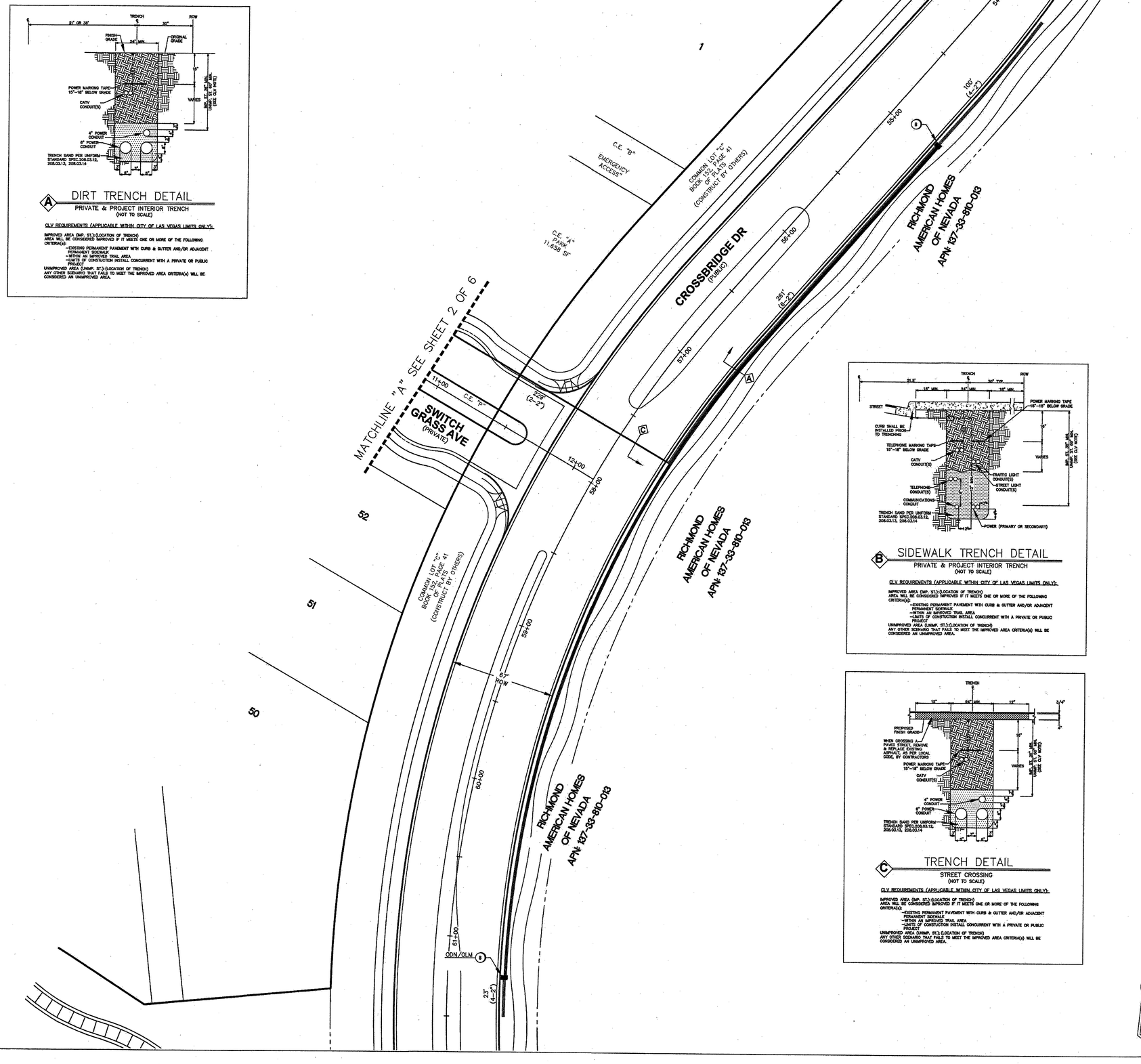
Sharing of this drawing and the information contained herein shall be only to individuals/parties who have entered into an agreement with Applicant for the completion of work associated with this specific project. Use for purposes other than this specific project requires the written consent of NV Energy.

A DIRT TRENCH DETAIL

PRIVATE & PROJECT INTERIOR TRENCH
(NOT TO SCALE)

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(A):
—EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK
—WITHIN AN IMPROVED TRAIL AREA
—LIMITS OF CONSTRUCTION INSTALL 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(A) WILL BE CONSIDERED AN UNIMPROVED AREA.



B SIDEWALK TRENCH DETAIL

PRIVATE & PROJECT INTERIOR TRENCH
(NOT TO SCALE)

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(A):
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—WITHIN AN IMPROVED TRAIL AREA
—LIMITS OF CONSTRUCTION INSTALL 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(A) WILL BE CONSIDERED AN UNIMPROVED AREA.

C TRENCH DETAIL

STREET CROSSING
(NOT TO SCALE)

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):

IMPROVED AREA (IMP. ST.)(LOCATION OF TRENCH)
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—WITHIN AN IMPROVED TRAIL AREA
—LIMITS OF CONSTRUCTION INSTALL 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(A) WILL BE CONSIDERED AN UNIMPROVED AREA.

LEGEND

1		INSTALL B-36 PULL BOX (24"X36"X24")
2		EXISTING B-36 PULL BOX (24"X36"X24")
3		INSTALL B-50 PULL BOX (13"X24"X24")
4		EXISTING B-50 PULL BOX (13"X24"X24")
5		INSTALL B-100 PULL BOX (24"X36"X24")
6		EXISTING B-100 PULL BOX (24"X36"X24")
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14		EXISTING NEW CATV PEDESTAL/CABINET
15		R&R S/W SLAB(S)
16		POTHOLE
17	—C—	SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL
18	—C—	ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL
19	—B—	PROPOSED BORE WITH FIBER/COAX PULL
20	—X—	EXISTING CATV CONDUIT(S)
21	—OHC—	PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL
22	—XOHC—	EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
23		U.G. FIBER/COAX PULL THROUGH EXISTING CONDUIT
24		RIGHT OF WAY LINE
25		LOT/PROPERTY LINE
26		EDGE OF PAVEMENT/ SIDEWALK/CONCRETE
27	P	EXISTING NVE PULL BOX
28	T	EXISTING TELCO PULL BOX
29	TM	EXISTING TELCO MANHOLE
30	T	EXISTING TELCO POLE
31		EXISTING NVE POLE
32	NVE	EXISTING NVE TRANSMISSION POLE
33		EXISTING JOINT POLE
34		EXISTING JOINT POLE WITH TRANSFORMER
35		POLE ANCHOR
36		EXISTING NVE TRANSFORMER TRANSFORMER PAD
37	TS	SNWA TEST STATION
38		COX POWER SUPPLY (49"X24"X52")
39	RC	INSTALL RHINO CABINET
40		RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41		RAILROAD
42	MH	EXISTING MANHOLE (SS),(SD)...ECT
43		1in CONDUIT LATERAL
44		STORMWATER ASSETS
45		

DISCLAIMER NOTE

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AVOID SYSTEMS UNDERGROUND CONDUIT, CABLE AND STREET LIGHT SYSTEMS DAMAGES IT'S COSTLY

CALL BEFORE YOU DO UNDERGROUND... CALL

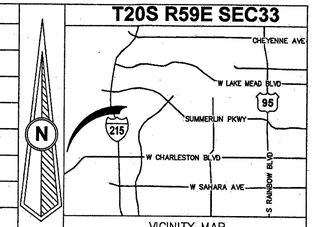
BEFORE YOU UNDERGROUND
1-702-455-7611
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED SYSTEM

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811
BEFORE YOU DIG
OR 1-800-227-2600
UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT
CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
SIDEWALK REMOVAL/REPAIR	
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

T20S R59E SEC33



VICINITY MAP

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA",LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

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APPROVAL — DATE 6/19/17

PERMIT #	RB-2288
DRAWN BY:	WTB
DATE:	4/22/2019
SCALE:	1:30
NODE:	LVAJZ
PROJECT #:	40505190000RB22880
TECH #	N/A
APPROVED BY:	JASON COLLINS

COX
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2686

CITY/ENTITY:
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: SV24 PAR I PH 1
CROSSBRIDGE DR & SWITCH GRASS AVE

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

SHEET No: 1
Sheet 1 of 6

TrueNet# 13906

L13-02530

6107450 92 SHEET 770F95

LEGEND

1		INSTALL B-36 PULL BOX (24"X36"X24")
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44		STORMWATER ASSETS
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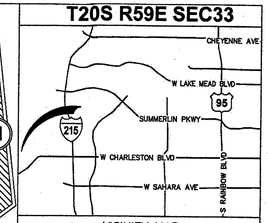
T20S R59E SEC33



VICINITY MAP

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

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APPROVED FOR CONSTRUCTION

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APPROVAL — DATE 6/19/19

PERMIT # RB-2288
DRAWN BY: WTB
DATE: 4/22/2019
SCALE: 1:30
NODE: LVAJZ
PROJECT #: 4050519000RB2880
TECH # N/A
APPROVED BY: JASON COLLINS

COX
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

DISCLAIMER NOTE

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AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 BEFORE YOU DIG OR 1-800-227-2600 UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT — CALL BEFORE YOU OVERHEAD — 1-702-227-2929 NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

AVOID CUTTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEMS CONDUITS IT'S COSTLY — CALL BEFORE YOU DO UNDERGROUND — CALL BEFORE YOU UNDERGROUND 1-702-455-7611 CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-432-5300 LAS VEGAS AREA COMPUTERIZED SYSTEM

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
SIDEWALK REMOVAL/REPAIR	
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

CITY/ENTITY:
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: SV24 PAR I PH 1 CROSSBRIDGE DR & SWITCH GRASS AVE

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

SHEET No: **2**
Sheet 2 of 6

TrueNet# 13906

10745092 SHEET 78 OF 95

LEGEND

1		INSTALL B-36 PULL BOX (24"X36"X24")
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CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
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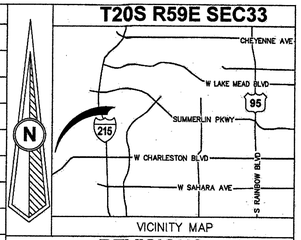
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

T20S R59E SEC33



VICINITY MAP

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

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APPROVAL — DATE: 6/19/19

PERMIT # RB-2288
DRAWN BY: WTB
DATE: 4/22/2019
SCALE: 1:30
NODE: LVAJZ
PROJECT #: 405051900000RB22880
TECH # N/A
APPROVED BY: JASON COLLINS

COX
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

CITY/ENTITY:
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: SV24 PAR I PH 1
CROSSBRIDGE DR & SWITCH GRASS AVE

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

SHEET No: **3**
Sheet 3 of 6

TrueNet# 13906

LEGEND

1		INSTALL B-36 PULL BOX (24"X36"X24")
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37	TS	SNWA TEST STATION
38		COX POWER SUPPLY (49"X24"X52")
39	RC	INSTALL RHINO CABINET
40		RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED
41		RAILROAD
42	MH	EXISTING MANHOLE (SS),(SD)...ECT
43		1in CONDUIT LATERAL
44		STORMWATER ASSETS
45		

DISCLAIMER NOTE

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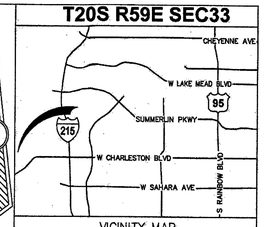
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 BEFORE YOU DIG OR 1-800-227-2600 UNDERGROUND SERVICE (USA)

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY. STRUCT DIRT & STEEL CONDUIT IT'S COSTLY. CALL BEFORE YOU DO UNDERGROUND... 811 CALL BEFORE YOU UNDERGROUND 1-702-455-7511 CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-432-5300 LAS VEGAS AREA COMPUTERIZED SYSTEM

AVOID OVERHEAD POWER LINE CONTACT. CALL BEFORE YOU OVERHEAD. 1-702-227-2929 NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
SIDEWALK REMOVAL/REPAIR	
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

T20S R59E SEC33



VICINITY MAP

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA",LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

APPROVED FOR CONSTRUCTION

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APPROVAL 6/19/19 DATE

PERMIT #	RB-2288
DRAWN BY:	WTB
DATE:	4/22/2019
SCALE:	1:30
NODE:	LVAJZ
PROJECT #:	40505190000RB22880
TECH #	N/A
APPROVED BY:	JASON COLLINS

COX
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

CITY/ENTITY:
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: SV24 PAR I PH 1 CROSSBRIDGE DR & SWITCH GRASS AVE

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

SHEET No: 4
Sheet 4 of 6

TrueNet# 13906

LEGEND

1		INSTALL B-36 PULL BOX (24"X36"X24")
2		EXISTING B-36 PULL BOX (24"X36"X24")
3		INSTALL B-50 PULL BOX (13"X24"X24")
4		EXISTING B-50 PULL BOX (13"X24"X24")
5		INSTALL B-100 PULL BOX (24"X36"X24")
6		EXISTING B-100 PULL BOX (24"X36"X24")
7		INSTALL T-200 CATV VAULT (30"X48"X36")
8		EXISTING T-200 CATV VAULT (30"X48"X36")
9		INSTALL T-400 CATV VAULT (36"X60"X36")
10		EXISTING T-400 CATV VAULT (36"X60"X36")
11		INSTALL T-600 CATV VAULT (48"X72"X36")
12		EXISTING T-600 CATV VAULT (48"X72"X36")
13		INSTALL NEW CATV PEDESTAL/CABINET
14		EXISTING NEW CATV PEDESTAL/CABINET
15		R&R S/W SLAB(S)
16		POTHOLE
17	-C-	SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL
18	-C-	ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL
19	-B-	PROPOSED BORE WITH FIBER/COAX PULL
20	-X-	EXISTING CATV CONDUIT(S)
21	-OHC-	PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL
22	-XOHC-	EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX
23		U.G. FIBER/COAX PULL THROUGH EXISTING CONDUIT
24		RIGHT OF WAY LINE
25		LOT/PROPERTY LINE
26		EDGE OF PAVEMENT/ SIDEWALK/CONCRETE
27	P	EXISTING NVE PULL BOX
28	T	EXISTING TELCO PULL BOX
29	TM	EXISTING TELCO MANHOLE
30	T	EXISTING TELCO POLE
31		EXISTING NVE POLE
32	NVE	EXISTING NVE TRANSMISSION POLE
33		EXISTING JOINT POLE
34		EXISTING JOINT POLE WITH TRANSFORMER
35		POLE ANCHOR
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CALL BEFORE YOU DO UNDERGROUND
CALL BEFORE YOU UNDERGROUND 1-702-455-7511 CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-433-6300 LAS VEGAS AREA COMPUTERIZED SYSTEM

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BEFORE YOU DIG OR 1-800-227-2600 UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT
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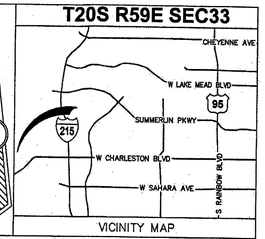
1-702-227-2929 NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

TOTAL BORE	0'
TOTAL DIRT TRENCH	0'
TOTAL ASPHALT TRENCH	0'
TOTAL TRENCH	0'
SIDEWALK REMOVAL/REPAIR	
TOTAL S/W PANELS	0
TOTAL LINEAR FOOTAGE	0'

T20S R59E SEC33



VICINITY MAP

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

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Shawn Batt — APPROVAL — 6/19/19 — DATE

PERMIT #	RB-2288
DRAWN BY:	WTB
DATE:	4/22/2019
SCALE:	1:30
NODE:	LVAUZ
PROJECT #:	405051900000RB22880
TECH #	N/A
APPROVED BY:	JASON COLLINS

COX
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

CITY/ENTITY:
CITY OF LAS VEGAS
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LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: SV24 PAR I PH 1 CROSSBRIDGE DR & SWITCH GRASS AVE

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

SHEET No: 5
Sheet 5 of 6

TrueNet# 13906

10745092 SHEET 81 OF 95

LEGEND

1	INSTALL B-36 PULL BOX (24"X36"X24")
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NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

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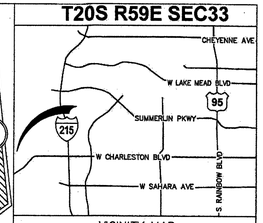
T20S R59E SEC33



VICINITY MAP

REVISIONS

REV	DESCRIPTION	DATE	BY
0			

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APPROVAL 6/19/19 DATE

PERMIT #	RB-2288
DRAWN BY:	WTB
DATE:	4/22/2019
SCALE:	1:30
NODE:	LVAJZ
PROJECT #:	405051900000RB22880
TECH #	N/A
APPROVED BY:	JASON COLLINS

COX
1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

CITY/ENTITY:
CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: SV24 PAR I PH 1
CROSSBRIDGE DR & SWITCH GRASS AVE

SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES:

SHEET No: 6
Sheet 6 of 6

TrueNet# 13906

10745092 SHEET 82 OF 95

T&S LEGEND (HEXATRONIC)

- 24WMD-A — = 24-WAY - MULTI-DUCT (MD) - Ø=1.5"/38.1mm (LETTER INDICATES DUCT IDENTIFIER; i.e. A)
- 19WMD-B — = 19-WAY - MULTI-DUCT (MD) - Ø=1.28"/32.4mm (LETTER INDICATES DUCT IDENTIFIER; i.e. B)
- 12WMD-C — = 12-WAY - MULTI-DUCT (MD) - Ø=1.09"/27.4mm (LETTER INDICATES DUCT IDENTIFIER; i.e. C)
- 7WMD-D — = 7-WAY - MULTI-DUCT (MD) - Ø=0.88"/22.3mm (LETTER INDICATES DUCT IDENTIFIER; i.e. D)
- 4WMD-E — = 4-WAY - MULTI-DUCT (MD) - Ø=0.76"/19.3mm (LETTER INDICATES DUCT IDENTIFIER; i.e. E)
- 2WMD-F — = 2-WAY - MULTI-DUCT (MD) - Ø=17.8x12.8mm (LETTER INDICATES DUCT IDENTIFIER; i.e. F)
- SD(4) — = 1-WAY - SINGLE-DUCT (SD) - Ø=0.47"/11.8mm (NMBR IN PARENTHESIS INDICATES QUANTITY OF SINGLE-DUCT IN EACH TRENCH SECTION)
- DJC = DUCT JOINT CLOSURE (DJC); ATTACH A LOCATOR BALL AT EACH DJC LOCATION.

DATE SERVICE CABINET (24" x 24" x 6") W/ 110V OUTLET: U.L. APPROVED, RAIN-TIGHT WITH A NON-LOCKING, SIDE-HINGED DOOR, EQUIPPED INSIDE WITH A 3/4" PLYWOOD BACKBOARD (1" SMALLER ON ALL SIDES, CENTERED IN CABINET) SECURED WITH RECESSED MOUNTING HARDWARE AND A # 6 GROUND WIRE CONNECTED TO AN APPROVED GROUNDING SOURCE. MOUNT CABINET AT EYE LEVEL, A MINIMUM OF 36" ABOVE FINISH GRADE. INCLUDE 1" SLEEVE FROM BOTTOM OF CABINET TO BELOW GRADE FOR INCOMING SERVICE AND ONE (1) DEDICATED 110V/20A, NON GFI, DUPLEX RECEPTACLE WIRED TO MAIN GATE POWER.

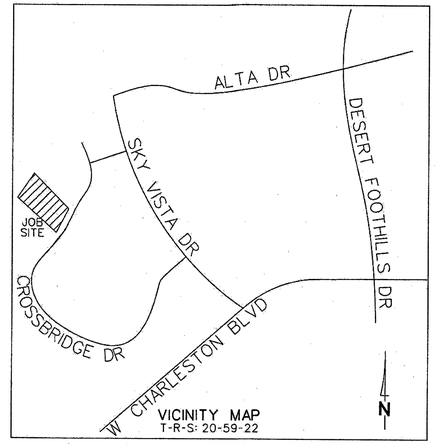
EXISTING / PROPOSED

100 PULL BOX (24" x 36" x 36" I.D.) - POLYMER CONCRETE TYPE PULL BOX. 100 PULL BOXES TO BE PROVIDED BY AND DELIVERED TO THE JOB SITE BY CENTURYLINK.

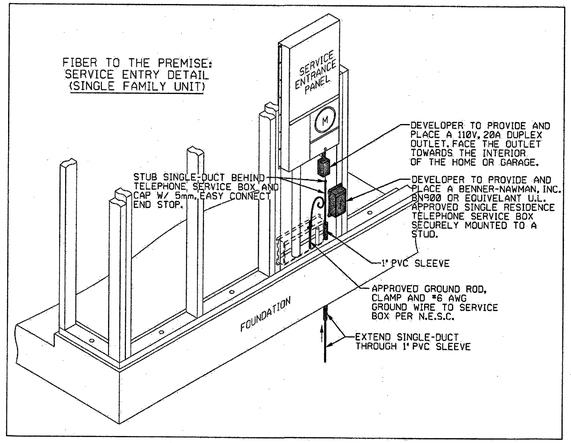
FDH PAD & GND. - REFER TO HEXATRONIC INSTALL GUIDE AND 4'x4'x6" FDH PAD DETAILS ON PLAN SHEETS

STANDARD LEGEND

- = PROPOSED CONDUIT; P.V.C. - D.B. (DIRECT BURIAL) GRADE: D.B. 60 FOR 1", 2", & 3" D.B. 100 FOR 4" HDPE - SDR-11 FOR 100"
- = EXISTING CONDUIT
- 45° / 90° = 45°/90° RADIAL BENDS - FACTORY FORMED SCHEDULE 40 PVC. 24" RADIUS FOR 1" / 36" RADIUS FOR 2" / 48" RADIUS FOR 4"
- = EXISTING CONDUIT STUB; SEE PLAN FOR SIZE/QTY.
- = EXISTING MANHOLE - REFER TO DRAWING FOR SIZE/TYPE.
- = EXISTING 400 PULL BOX (3'0" x 5'0" x 4'0" I.D.)
- = EXISTING 200 PULL BOX (30" x 48" x 36" I.D.)
- = EXISTING 100 PULL BOX (24" x 36" x 36" I.D.)
- = EXISTING 30 PULL BOX (17" x 30" x 38" I.D.)
- = EXISTING POWER/TELEPHONE POLE
- = EXISTING TELEPHONE ANCHOR
- (E)OHP&T = EXISTING OVERHEAD POWER AND TELEPHONE CABLE(s)
- = TELEPHONE TERMINAL CABINET (T.T.C.) AND GROUND; REFER TO DRAWING FOR SIZE/TYPE.
- = TELEPHONE TERMINAL BACKBOARD (T.T.B.) AND GROUND; REFER TO DRAWING FOR SIZE/TYPE.
- = Right-Of-Way or Property Line
- = Centerline



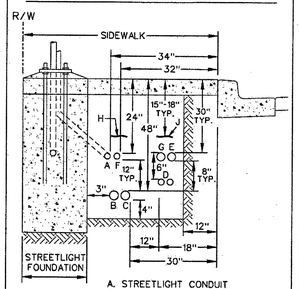
VICINITY MAP
T-R-S: 20-59-22



GENERAL NOTES FOR T&S (HEXATRONIC)

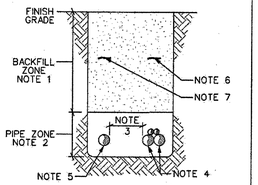
1. ALL CONSTRUCTION SHALL CONFORM TO THE NEVADA DIVISION OF CENTURYLINK SPECIFICATIONS. SEE LATEST ISSUE FOR THE INSTALLATION OF UNDERGROUND RESIDENTIAL DISTRIBUTION TELEPHONE SYSTEM.
2. TRENCHING, BACKFILLING AND RESTORATION WORK ARE TO BE PROVIDED BY THE DEVELOPER AND SHALL CONFORM TO THE REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) UNIFORM STANDARD DRAWINGS.
3. ANY CONDUIT PLACED FOR DEVELOPER'S CONVENIENCE (I.E. STREET CROSSING, STUB-OUTS FOR FUTURE UNITS) WILL BE PLACED AT DEVELOPER'S EXPENSE.
4. TELEPHONE BOXES ARE TO BE PLACED IN THE SIDEWALK AREA WHENEVER POSSIBLE AND SITUATED TO AVOID DRIVEWAYS AND HANDICAP RAMPS (UNLESS SHOWN OR NOTED OTHERWISE). ALL TRENCHING WILL BE OF A MINIMUM DEPTH TO MAINTAIN 36" COVER FROM FINAL GRADES TO TOP OF PIPE (EXCEPT WHEN ENTERING TELEPHONE BOXES). MAINTAIN 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES. BOXES WILL BE ESTABLISHED TO FINISH GRADE.
5. TRENCH AND SUBSTRUCTURE TO A RESIDENCE MUST BE 18" FROM THE SIDE LOT LINE WITH A MINIMUM DEPTH TO MAINTAIN 30" COVER FROM FINISH GRADE AND 12" MINIMUM SEPARATION FROM FOREIGN UTILITIES.
6. CABLE RACKS WILL BE INSTALLED IN ALL 2'-0" X 3'-0" X 3'-0" PULL BOXES AND LARGER PER CENTURYLINK SPECIFICATIONS.
7. ALL TELEPHONE BOXES NOT IN SIDEWALK AREAS WILL BE REQUIRED TO HAVE A PROTECTIVE CONCRETE COLLAR, RE-ENFORCED WITH REBAR, POURED AROUND THE TOP PORTION OF THE BOX PER CENTURYLINK SPECIFICATIONS.
8. WHEN JOINING EXISTING STUB-OUTS, THE LOCATION AND VALIDITY OF THE STUB-OUTS ARE ASSUMED AND BASED OFF RECORDS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING CONDUIT STUB-OUT. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, PROVE AND PLACE PULL STRING IN THE EXISTING CONDUIT AS PART OF CONNECTING TO THE STUB FOR EXTENSION TO THIS PROJECT. IF THE CONDUIT CANNOT BE PROVED OR IS IDENTIFIED AS BEING DAMAGED THEN THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR THE DUCTS WHERE DAMAGED OR INSTALL NEW CONDUIT BACK TO THE EXISTING TRUE POINT OF RE-ENFORCABLE SERVICE (I.E. MANHOLE OR PULL BOX) AT THE DEVELOPERS EXPENSE.
9. THE CONTRACTOR SHALL PROVE AND MANDREL ALL PVC CONDUIT AFTER BACKFILLING WHILE A CENTURYLINK INSPECTOR IS PRESENT. MANDREL SIZE IS TO BE 1/4" SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL A MEASURING TAPE CONSISTING OF WATER PROOF, 400 POUND TENSILE STRENGTH, MARKED IN ONE FOOT OR LESS INCREMENTS IN AT LEAST ONE DUCT OF ALL PVC CONDUIT SECTIONS. ALL OTHER DUCTS IN A MULTIPLE PVC DUCT SYSTEM WILL HAVE A 3/32" JET LINE PULL STRING WITH 400 POUND TENSILE STRENGTH (APPLIES TO PVC PIPE ONLY).
11. A POLYETHYLENE DUCT PLUG SHALL BE INSTALLED IN ALL PVC CONDUIT WHERE TERMINATED OR STUBBED.
13. CAP AND LABEL ALL SINGLE-DUCT's (SD's) AT THE LOT LINES, AS SHOWN ON THE PLANS, UNTIL SIDE-LOT TRENCHES ARE OPEN. LEAVE 18' OF SD ON TRANSFORMER LOTS AND 8' OF SD ON NON-TRANSFORMER LOTS FOR FUTURE EXTENSION.
12. BOND ALL MULTI-DUCT AND SINGLE-DUCT AS REQUIRED.
13. THE DEVELOPER SHALL PROVIDE A # 6 COPPER GROUND WIRE FROM EACH TERMINAL CABINET, BACKBOARD AND/OR NETWORK INTERFACE DEVICE (NID) FOR A SINGLE FAMILY UNIT TO A COMMON GROUND WITH NV ENERGY PER THE NATIONAL ELECTRIC SAFETY CODE SPECIFICATIONS. ALL TERMINAL CABINETS WILL HAVE A 2" METAL RISER.
14. IN ORDER TO INSURE ADEQUATE FACILITIES ARE PROVIDED FOR THIS PROJECT, IT IS IMPERATIVE THAT THIS TRENCH AND SUBSTRUCTURE DESIGN NOT BE CHANGED WITHOUT CENTURYLINK OUTSIDE PLANT ENGINEERING APPROVAL.
15. CALL 244-7811 TO SCHEDULE INSPECTIONS 24 HOURS IN ADVANCE. REQUESTS RECEIVED AFTER 11:00 AM MAY NOT BE SCHEDULED FOR THE FOLLOWING WORKDAY. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

TYPICAL UNDERGROUND UTILITY LOCATIONS RESIDENTIAL STREETS 60' R/W OR LESS PER R.T.C. U.S.D. #501



A. STREETLIGHT CONDUIT
B. POWER COMPANY SECONDARY
C. POWER COMPANY PRIMARY
D. TELEPHONE CONDUITS
E. CABLE T.V. CONDUIT
F. TRAFFIC SIGNAL CONDUIT
G. OTHER COMMUNICATIONS CONDUIT
H. POWER MARKING TAPE
J. TELEPHONE MARKING TAPE

PIPE ZONE REQUIREMENTS



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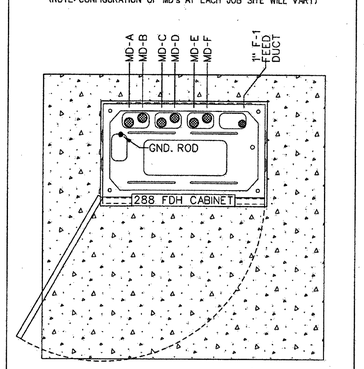
6. TELEPHONE MARKING TAPE 15"-18" BELOW GRADE
7. POWER MARKING TAPE 15"-18" BELOW GRADE

TYPICAL FDH MULTI-DUCT ALIGNMENT N.T.S.

(NOTE: CONFIGURATION OF MD's AT EACH JOB SITE WILL VARY)



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APPROVAL — DATE 6/19/19

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DEVELOPER: PARDEE HOMES
DAVE WAGNER
CONTACT #: 702-376-0526
NMBR OF LOTS: 116 (Total)

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

CITY OF LAS VEGAS PERMIT REQUIRED *

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INSPECTOR: DATE:

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811 OR 1-800-227-2600

Project Description: RESIDENTAIL FIBER TO THE PREMISE (FTTP) - HEXATRONIC		Engineering Contact	Name: LoriJohnson Phone Number: 702-244-7899
Project # N.505904	WC CLLI: LSVGNVXVW	Contract Engineer	Name: Tyler Owen Phone Number: 702-395-2776
Community Name: SUMMERLIN VILLAGE 24 PARCEL 1		Construction Coordinator	Name: Stacie Booth Phone Number: 702-244-7830
WEST WEST	Remote Switch Exchange Key: N/A	1	Revision 1: Moved single duct from South side of lot 55 to North side

CenturyLink™

CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 1 | Issue Date: 05/10/19

10745092 SHEET 83 OF 95

F-2: HEXATRONIC LAYOUT

TOTAL HEXATRONIC QUANTITIES:		
MATERIAL (HEX)	DESIGN EST.	ORDER QTY.
*24W MULTI-DUCT	9,738	9,840
1W SINGLE-DUCT	18,534	21,320
DJC	33 EACH	33 EACH

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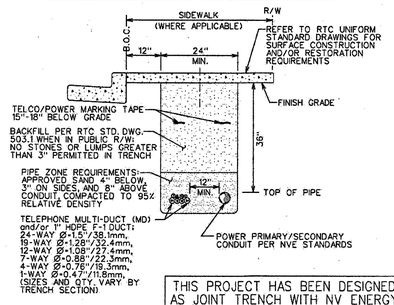
TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



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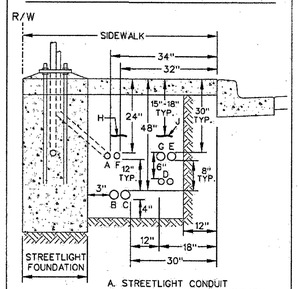
TYPICAL UNDERGROUND UTILITY LOCATIONS
RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



A. STREETLIGHT CONDUIT
B. POWER COMPANY SECONDARY
C. POWER COMPANY PRIMARY
D. TELEPHONE CONDUITS
E. CABLE T.V. CONDUIT
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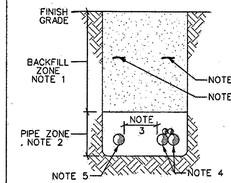

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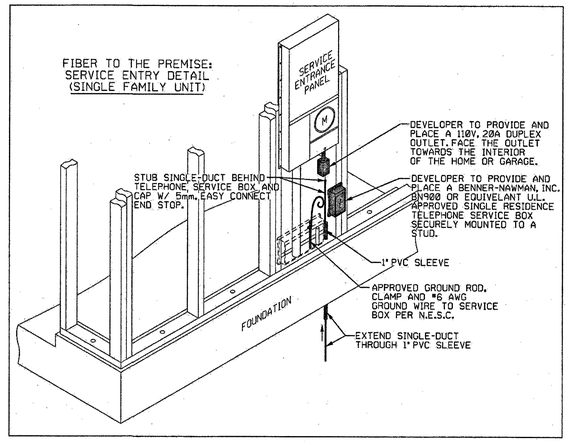
FIBER TO THE PREMISE: SERVICE ENTRY DETAIL (SINGLE FAMILY UNIT)



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FIBER TO THE PREMISE (FTTP) / SINGLE FAMILY HOMES MINIMUM INSIDE WIRING REQUIREMENTS FOR CUSTOMER OWNED PREMISE WIRE (COPW)
CUSTOMER OWNED PREMISE WIRE (COPW) SHALL CONSIST OF ONE SEPARATE CAT-5E/CAT6 FOR VOICE AND ONE SEPARATE CAT-5E/CAT6 FOR VIDEO/DATA. COPW SHALL BE RAN FROM THE OUTDOOR TELEPHONE SERVICE BOX TO EACH RJ11 (VOICE) AND RJ45 (DATA) JACK AS DESIGNATED BY THE BUILDER.
CAT5E/CAT6 CABLE HAS AN EFFECTIVE RANGE OF 100 METERS OR 328 FEET. THE TOTAL LENGTH BETWEEN THE OUTDOOR DEMARK AND THE END ELECTRONICS SHOULD NOT EXCEED 328 FEET.
CONTACT THE CENTURYLINK ENGINEER FOR ADDITIONAL INFORMATION REGARDING CENTURYLINK's FIBER TO THE PREMISE DEPLOYMENTS FOR SINGLE FAMILY HOMES.

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N

0 40 80

SCALE 1" = 40' (24"x36" SHEET)

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APPROVAL 6/19/19 DATE

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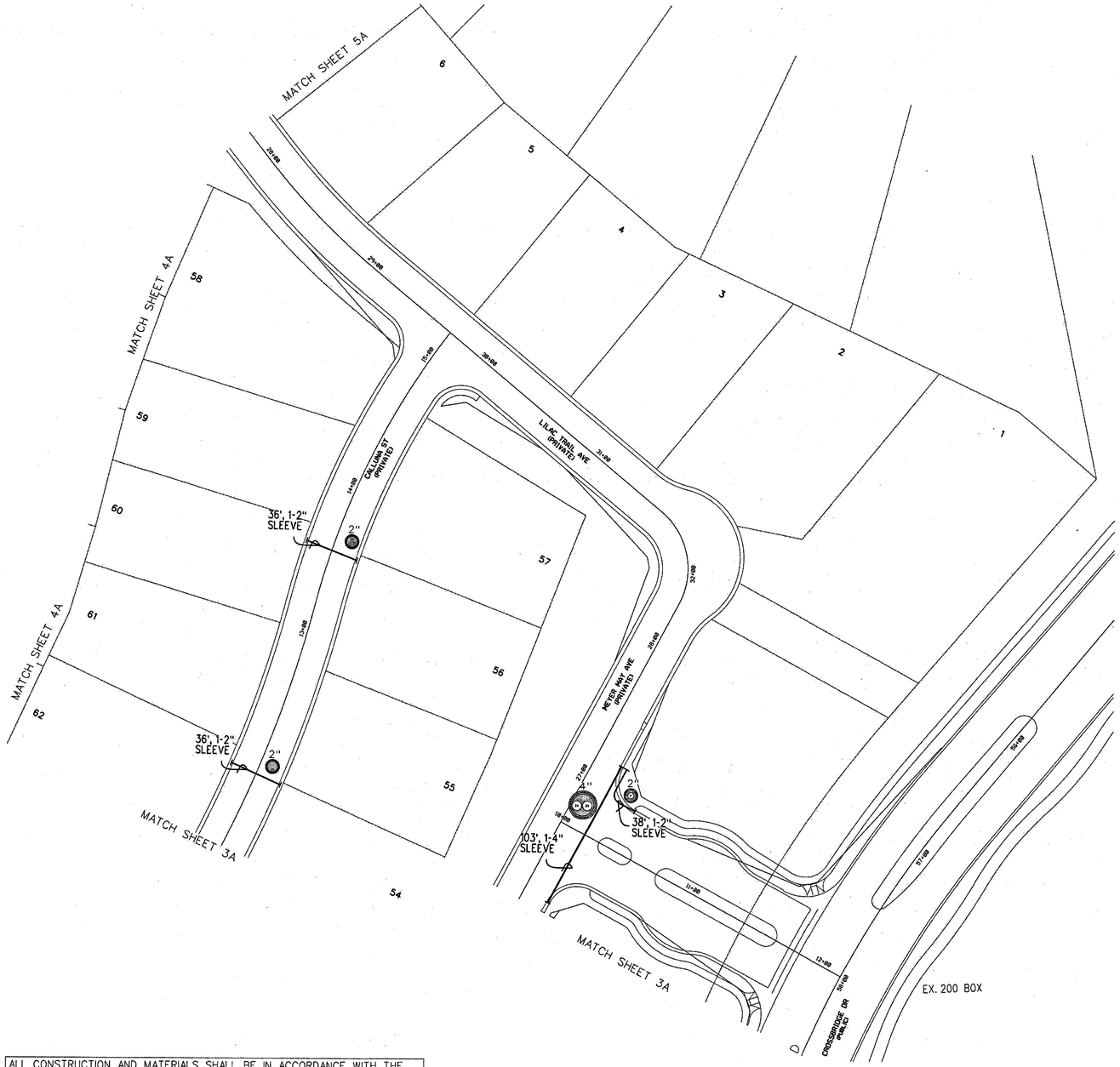
Sheet: 2 | Issue Date: 05/10/19

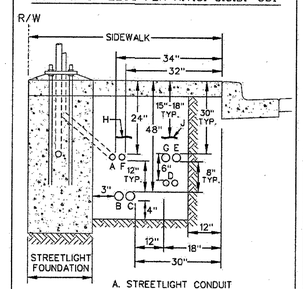
10745092 SHEET 84 OF 95

STREET CROSSINGS - SLEEVES



RE-IMBURSEABLE PROJECT QUANTITIES THE DEVELOPER'S CONTRACTOR MAY SUBMIT A PROPOSAL FOR THIS WORK PER THE LATEST STANDARD CONTRACTOR PRICE LIST.	
MATERIAL ITEMS (ALL TRENCHING BY DEVELOPER)	EST. QTY.
4" D.B. 100 GRADE PVC	399 L.F.
2" D.B. 60 GRADE PVC	542 L.F.
4"x48" SCH. 40 PVC 90° BENDS	0 EACH
2"x36" SCH. 40 PVC 90° BENDS	1 EACH

TYPICAL UNDERGROUND UTILITY LOCATIONS
RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



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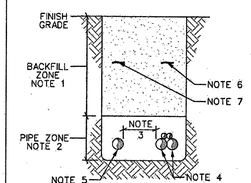

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TYPICAL SLEEVE TRENCH DETAIL
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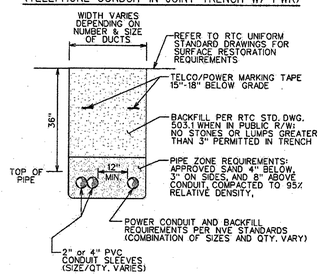

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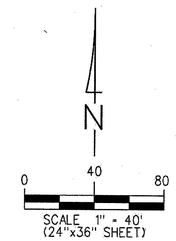

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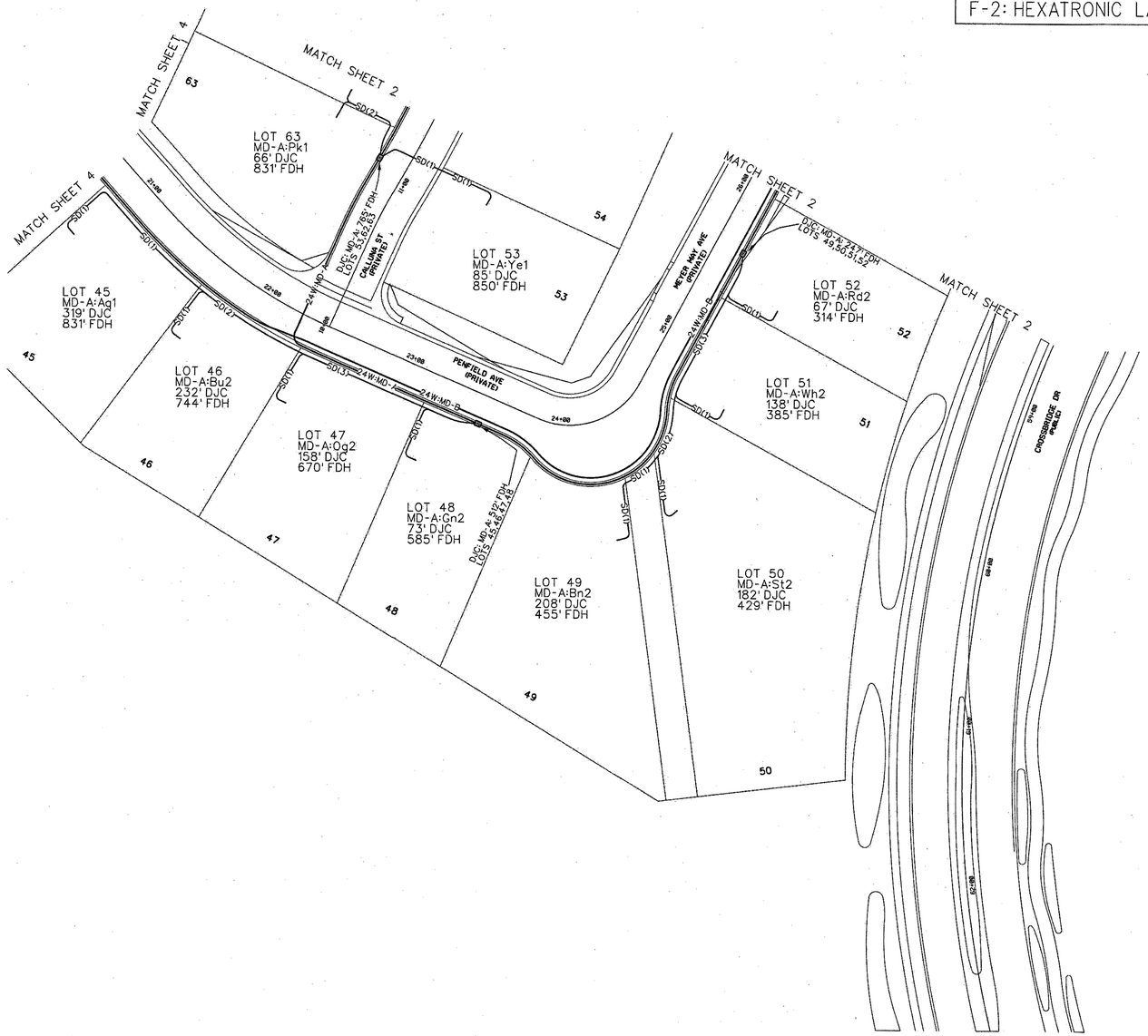
Sheet: 2A | Issue Date: 05/10/19

F-2: HEXATRONIC LAYOUT



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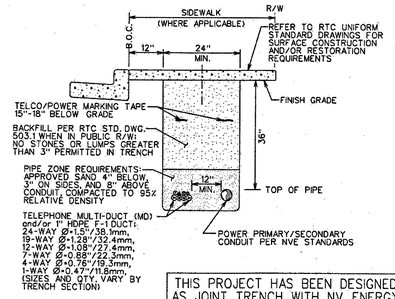

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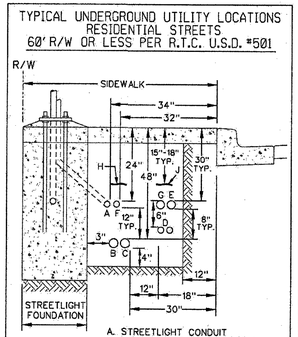

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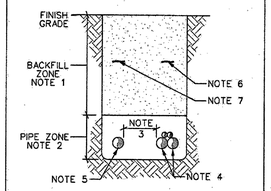

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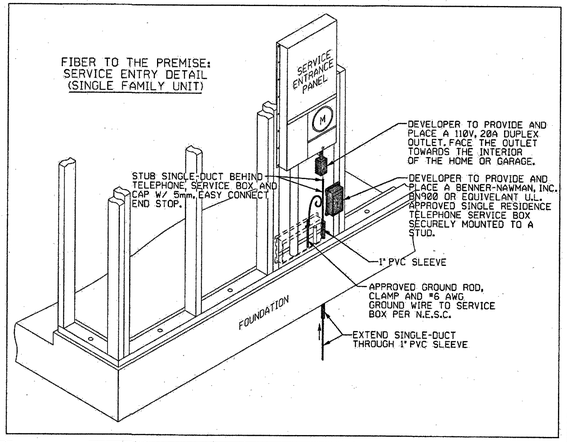

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CAT5E/CAT6 CABLE HAS AN EFFECTIVE RANGE OF 100 METERS OR 328 FEET. THE TOTAL LENGTH BETWEEN THE OUTDOOR DEMARK AND THE END ELECTRONICS SHOULD NOT EXCEED 328 FEET.

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RTC SOUTHERN NEVADA NOTES:

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N

0 40 80
SCALE 1" = 40'
(24"x36" SHEET)

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APPROVAL 6/19/19 DATE

CITY OF LAS VEGAS PERMIT REQUIRED *	
DEVELOPER/CONTRACTOR SHALL OBTAIN A CITY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY	
* CENTURYLINK INSPECTOR WILL VERIFY CITY PERMIT FOR WORK DONE WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY	
INSPECTOR:	DATE:

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
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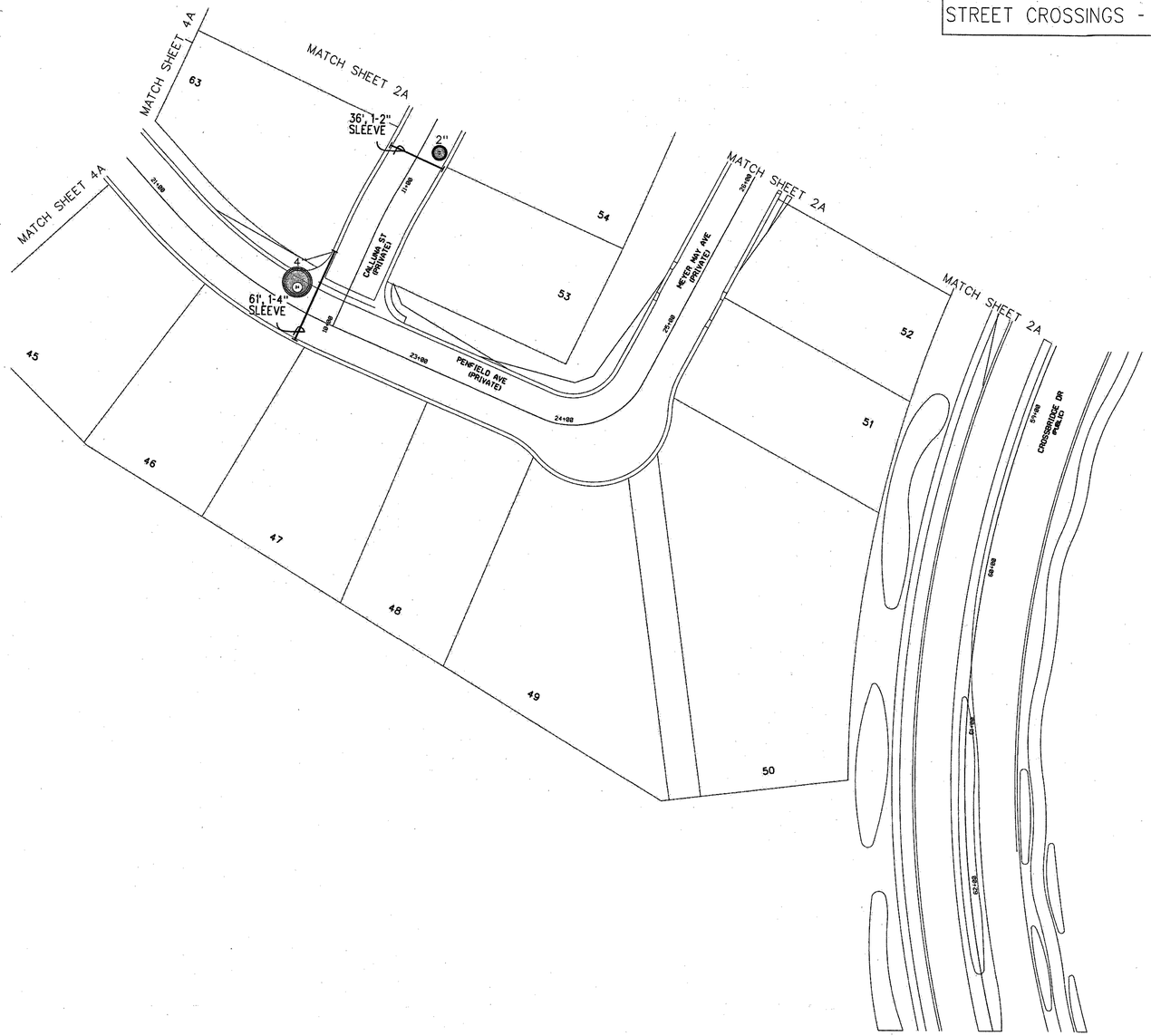
Project Description: RESIDENTAIL FIBER TO THE PREMISE (FTTP) - HEXATRONIC		Engineering Contact: Name: Lori Johnson Phone Number: 702-244-7899	CenturyLink™
Project * N.505904	WC CLLI: LSVGNVXVW	Contract Engineer: Name: Tyler Owen Phone Number: 702-395-2776	CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.
Community Name: SUMMERLIN VILLAGE 24 PARCEL I		Construction Coordinator: Name: Stacie Booth Phone Number: 702-244-7830	
WEST WEST	Remote Switch Exchange Key: N/A	⚠1 Revision 1: Moved single duct from South side of lot 55 to North side	Sheet: 3 / Issue Date: 05/10/19

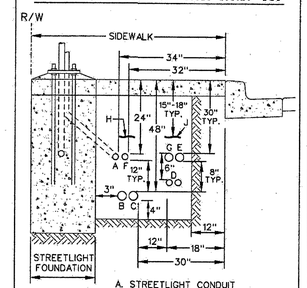
10745592 SHEET 86 OF 95

STREET CROSSINGS - SLEEVES



RE-IMBURSEABLE PROJECT QUANTITIES THE DEVELOPER'S CONTRACTOR MAY SUBMIT A PROPOSAL FOR THIS WORK PER THE LATEST STANDARD CONTRACTOR PRICE LIST.	
MATERIAL ITEMS (ALL TRENCHING BY DEVELOPER)	EST. QTY.
4" D.B. 100 GRADE PVC	399 L.F.
2" D.B. 60 GRADE PVC	542 L.F.
4"x48" SCH. 40 PVC 90° BENDS	0 EACH
2"x36" SCH. 40 PVC 90° BENDS	1 EACH

TYPICAL UNDERGROUND UTILITY LOCATIONS
RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



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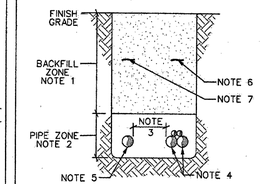
C. POWER COMPANY PRIMARY
D. TELEPHONE CONDUITS
E. CABLE T.V. CONDUIT
F. TRAFFIC SIGNAL CONDUIT
G. OTHER COMMUNICATIONS CONDUIT
H. POWER MARKING TAPE
J. TELEPHONE MARKING TAPE

PIPE ZONE REQUIREMENTS



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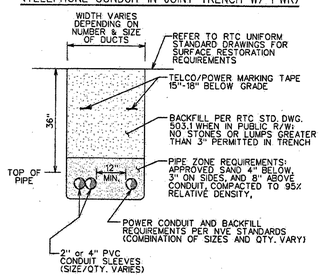
TYPICAL SLEEVE TRENCH DETAIL
(TELEPHONE CONDUIT IN JOINT TRENCH W/ PWR)



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APPROVAL _____ DATE 6/19/19

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Project # N.505904 / WC CLLI: LSVGNVXVW	Contract Engineer: Name: Tyler Owen Phone Number: 702-395-2776	CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.
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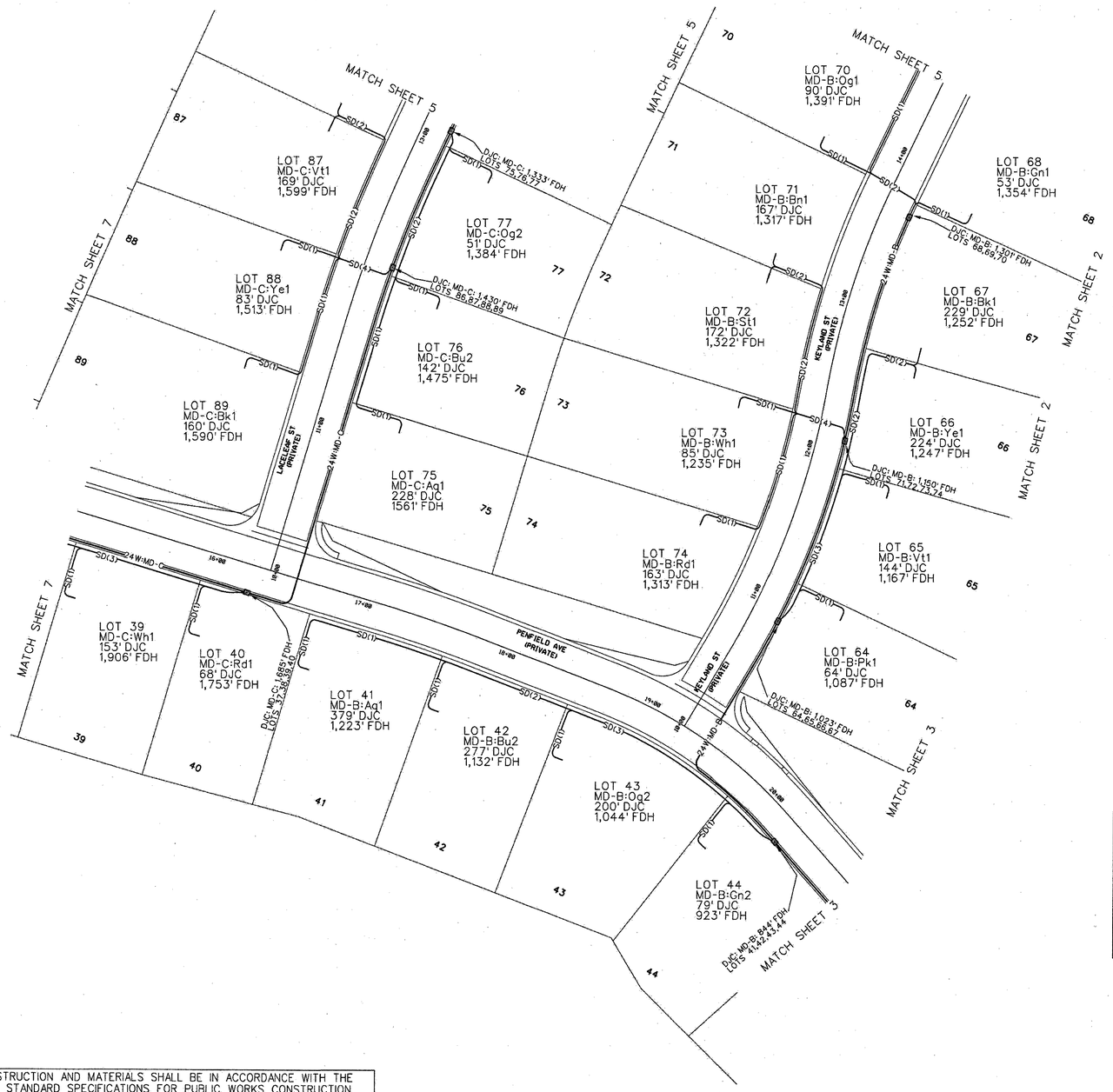
WEST WEST / Remote Switch Exchange Key: N/A	1 Revision 1: Moved single duct from South side of lot 55 to North side	Sheet: 3A / Issue Date: 05/10/19

F-2: HEXATRONIC LAYOUT

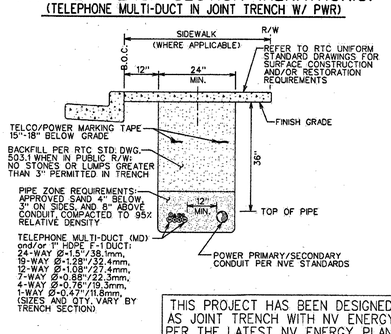


TOTAL HEXATRONIC QUANTITIES:		
MATERIAL (HEX)	DESIGN EST.	ORDER QTY.
* 24W MULTI-DUCT	9,738	9,840
1W SINGLE-DUCT	18,534	21,320
DJC	33 EACH	33 EACH

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE. BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

SINGLE-DUCT (S.D.) NOTE:
1) CONTRACTOR TO COIL, TEST AND END CAP THE SINGLE-DUCT (S.D.) AT EACH LOT LINE WHERE DESIGNATED ON THE DRAWINGS.
2) LABEL EACH S.D. WITH THE LOT NUMBER.
3) LEAVE SUFFICIENT AMOUNT OF SINGLE-DUCT COILED AT THE SIDE LOT TRENCH TO REACH THE ENTRY POINT OF EACH HOME. NOTE THAT LENGTHS VARY TO EACH HOME DUE TO VARYING SETBACKS AT EACH LOT.
4) S.D. WILL BE EXTENDED TO EACH HOME AT A LATER DATE WHEN THE SIDE LOT TRENCHES ARE OPENED.

TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



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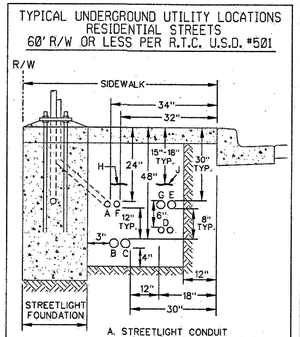
TYPICAL UNDERGROUND UTILITY LOCATIONS
RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



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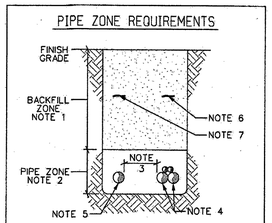
PIPE ZONE REQUIREMENTS



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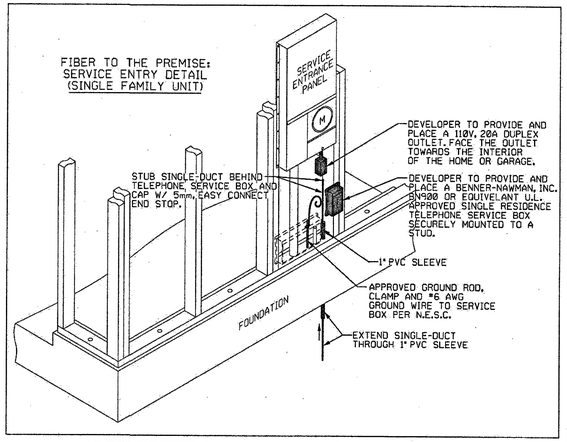
FIBER TO THE PREMISE: SERVICE ENTRY DETAIL (SINGLE FAMILY UNIT)



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FIBER TO THE PREMISE (FTTP) / SINGLE FAMILY HOMES
MINIMUM INSIDE WIRING REQUIREMENTS FOR CUSTOMER OWNED PREMISE WIRE (COPW)

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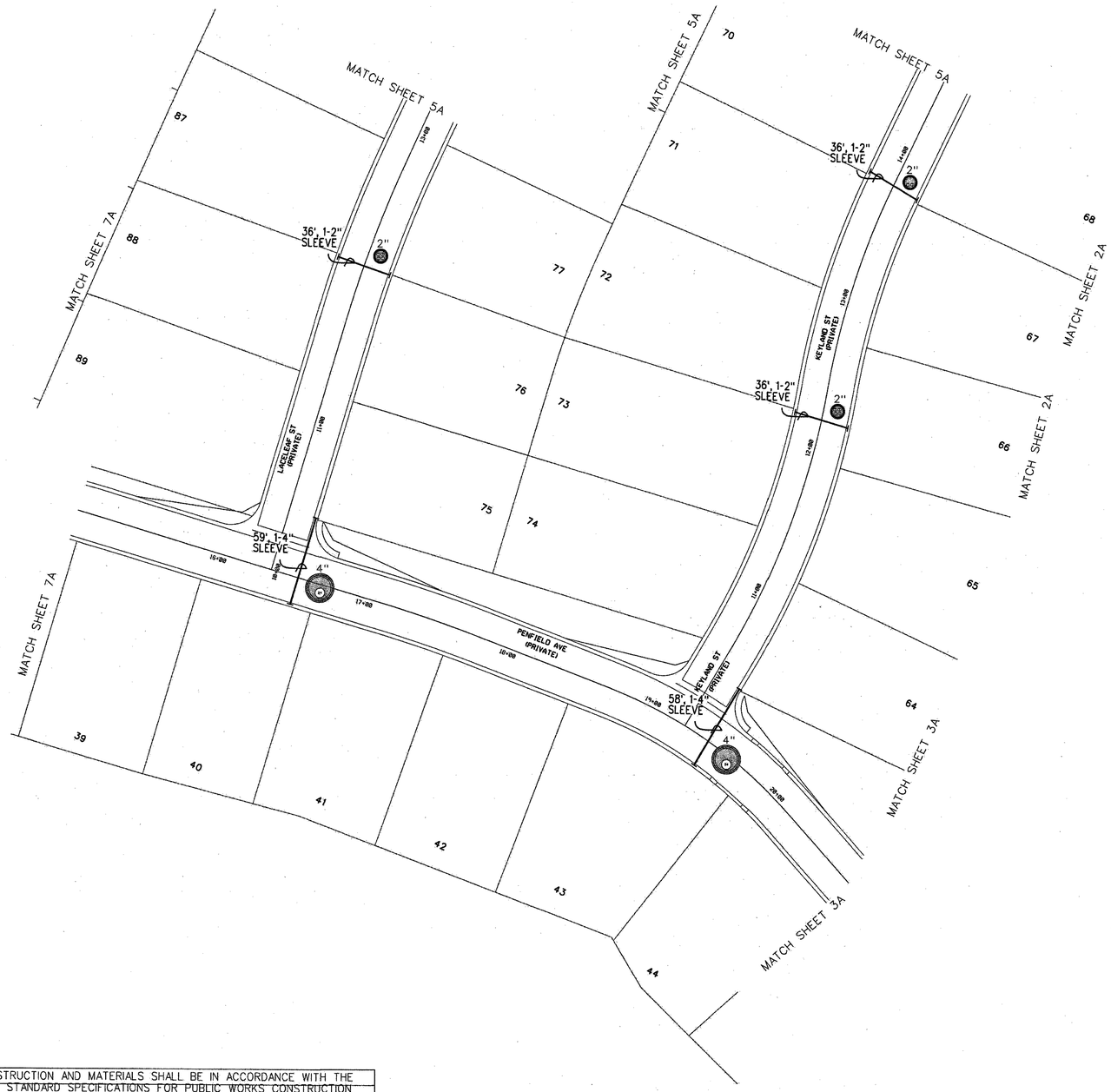
CenturyLink™

CONFIDENTIAL - Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 4 | Issue Date: 05/10/19

STREET CROSSINGS - SLEEVES



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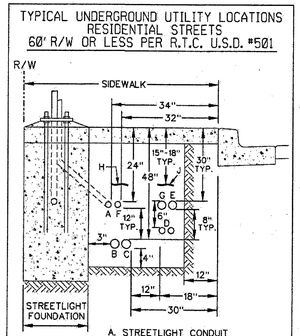
RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



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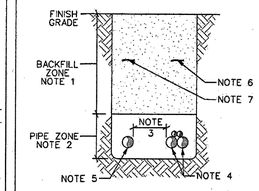

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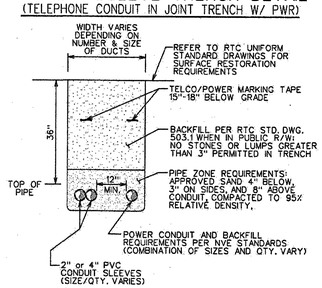

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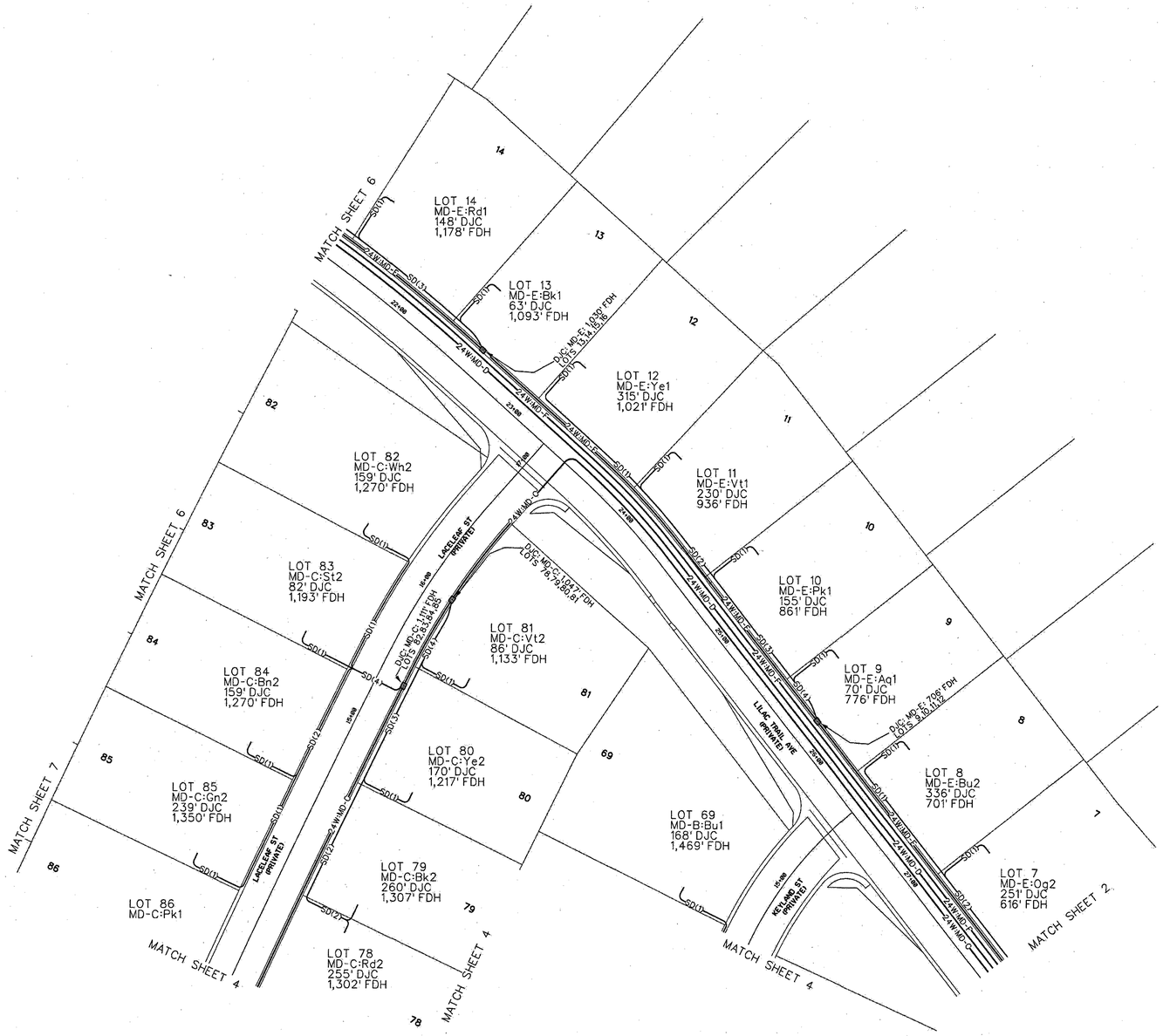
Sheet: 4A | Issue Date: 05/10/19

F-2: HEXATRONIC LAYOUT



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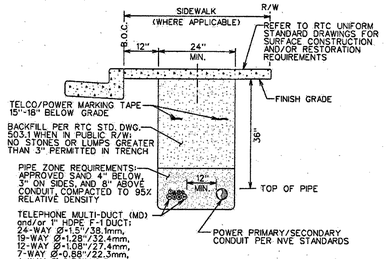

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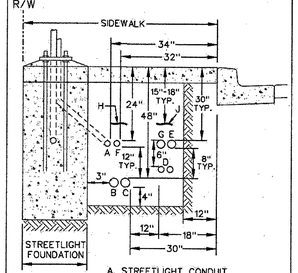
TYPICAL UNDERGROUND UTILITY LOCATIONS
RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



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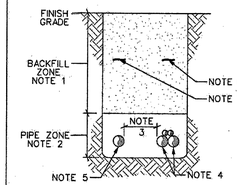

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FIBER TO THE PREMISE: SERVICE ENTRY DETAIL
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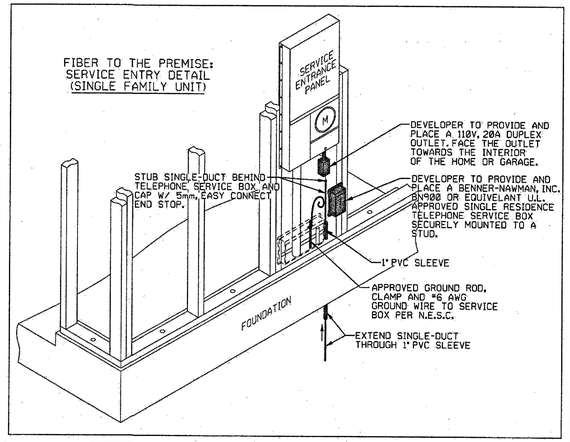

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N

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APPROVAL — DATE 6/19/19

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INSPECTOR: DATE:

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Project Description: RESIDENTAIL FIBER TO THE PREMISE (FTTP) - HEXATRONIC		Engineering Contact	Name: Lori Johnson Phone Number: 702-244-7899
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CONFIDENTIAL - Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 5 | Issue Date: 05/10/19

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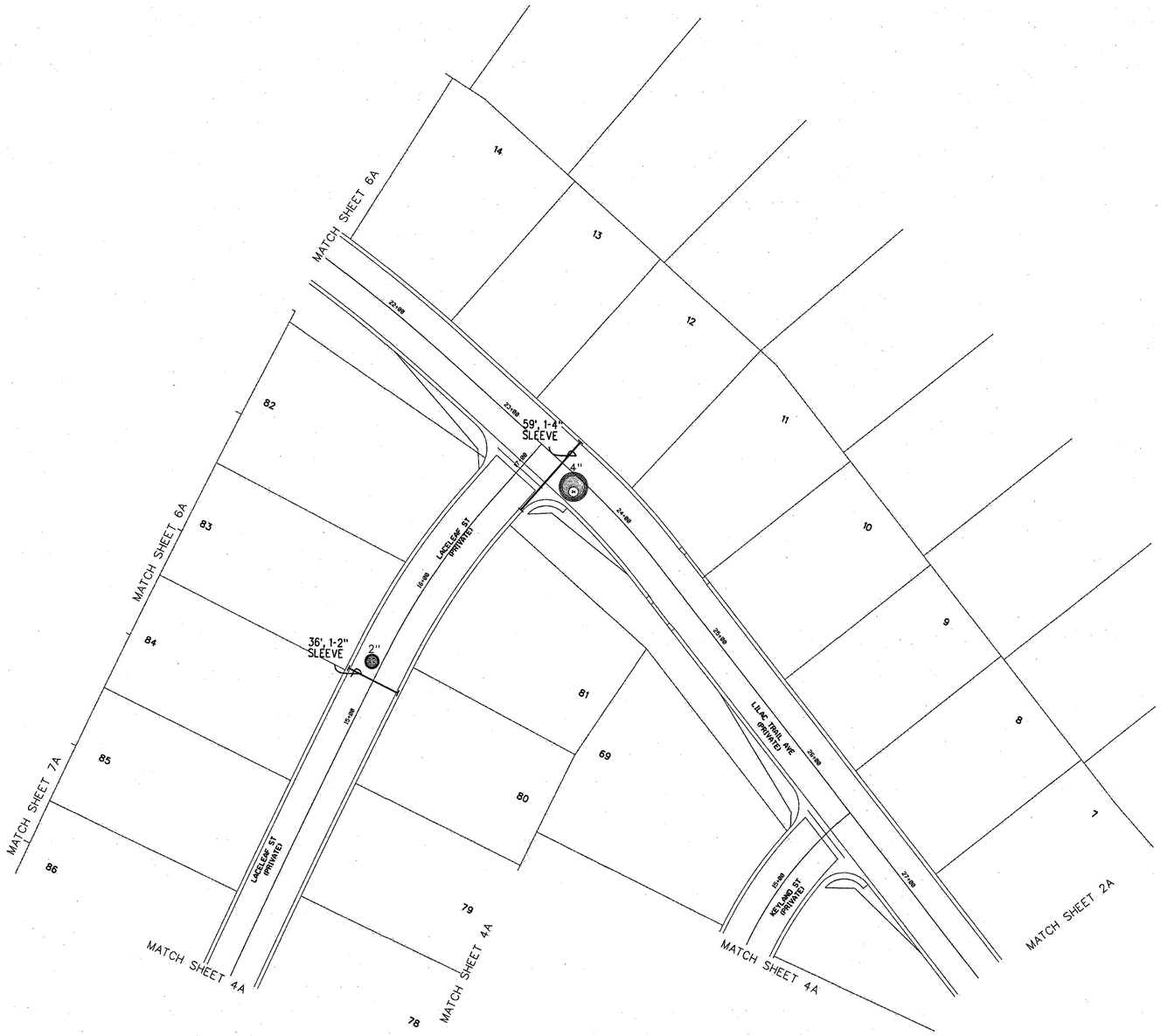
STREET CROSSINGS - SLEEVES



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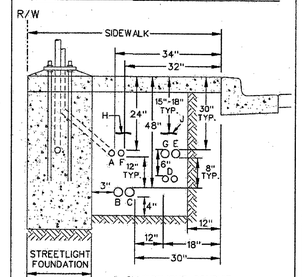

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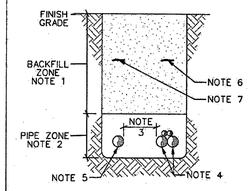

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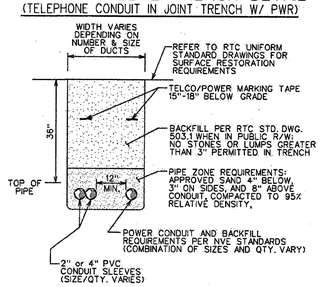

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CONFIDENTIAL-Disclose and Distribute Solely to CTL Employees Having a Need to Know.

Sheet: 5A | Issue Date: 05/10/19

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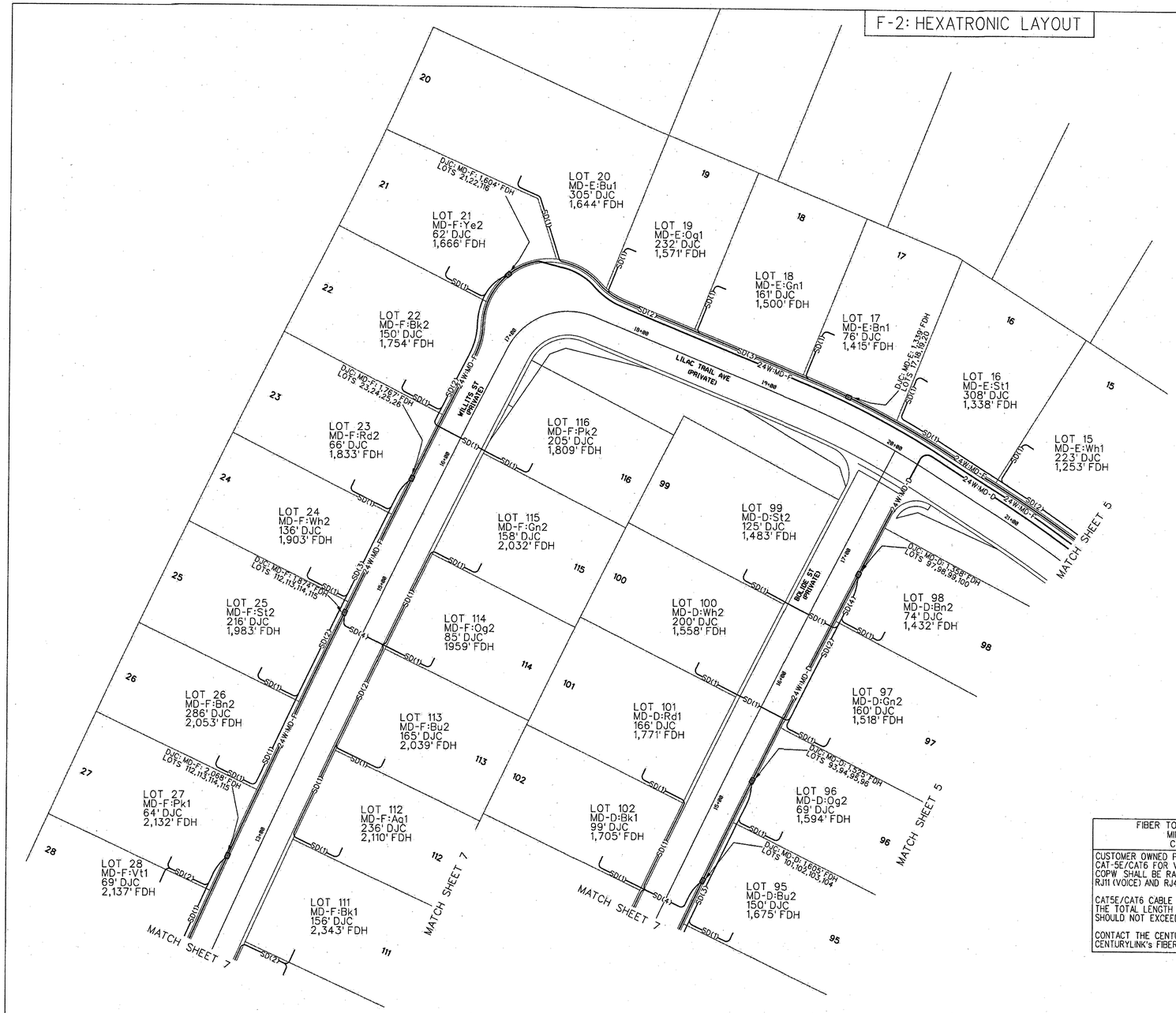
F-2: HEXATRONIC LAYOUT



TOTAL HEXATRONIC QUANTITIES:		
MATERIAL (HEX)	DESIGN EST.	ORDER QTY.
*24W MULTI-DUCT	9,738	9,840
1W SINGLE-DUCT	18,534	21,320
DJC	33 EACH	33 EACH

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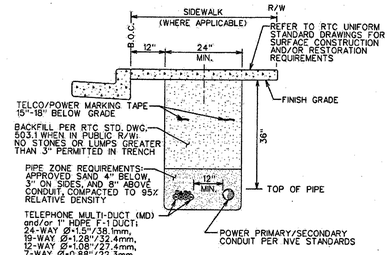

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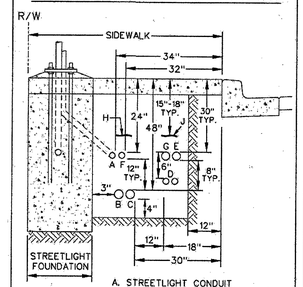

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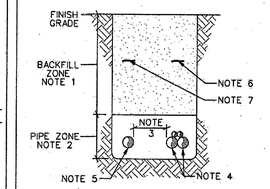

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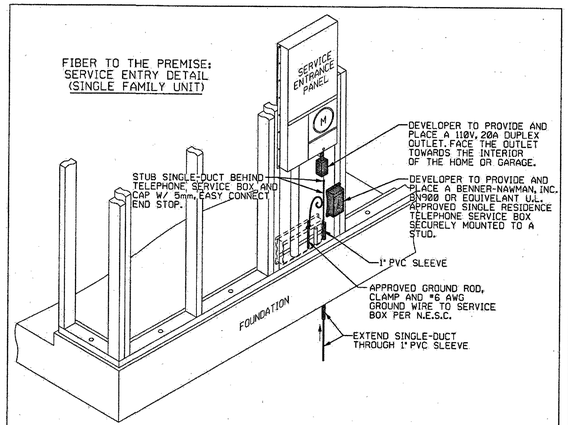

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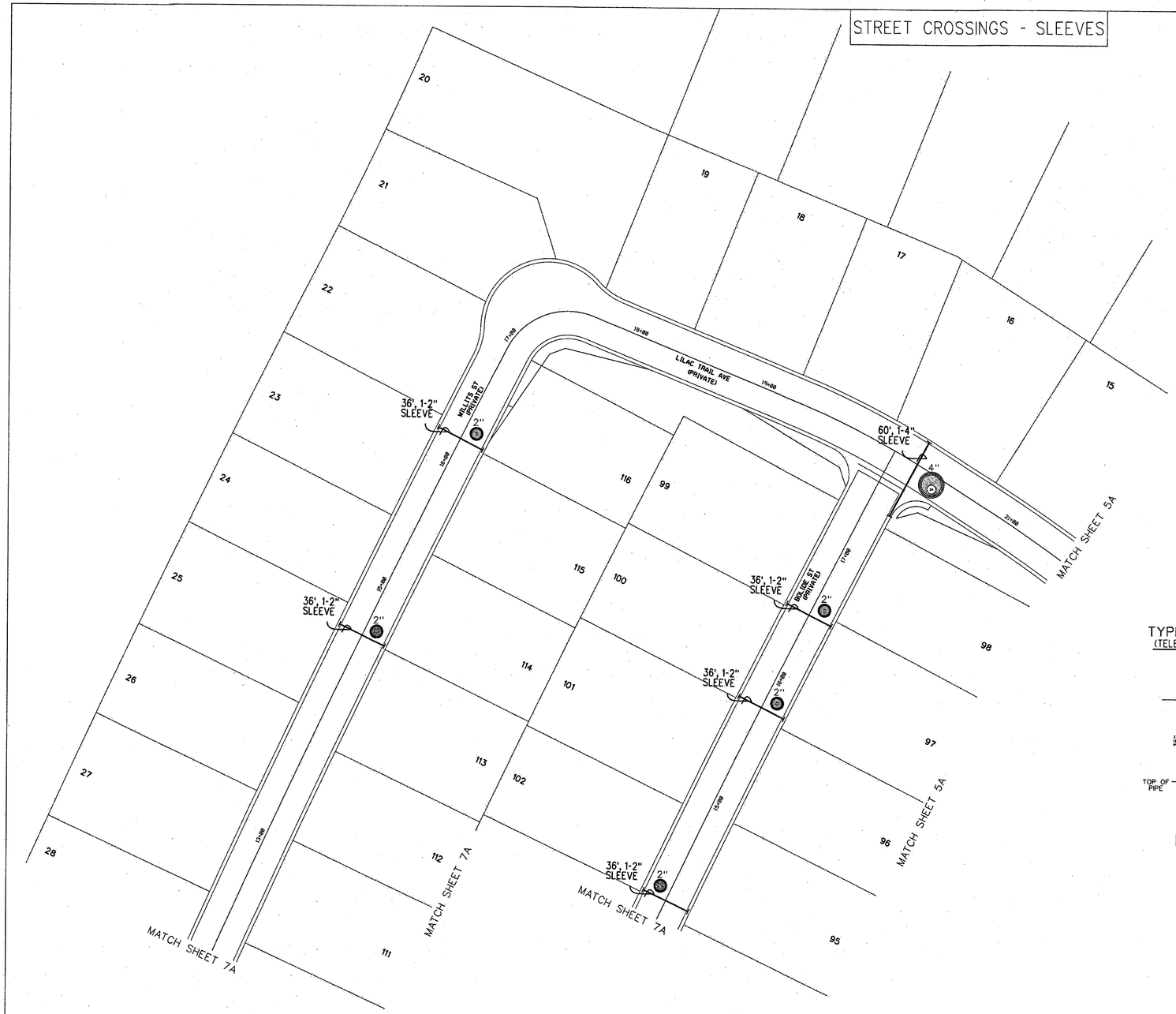
10745092 SHEET 92 OF 95

STREET CROSSINGS - SLEEVES



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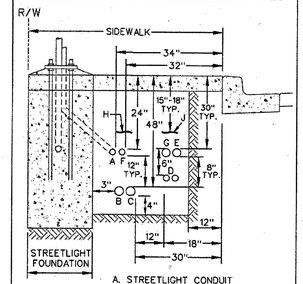

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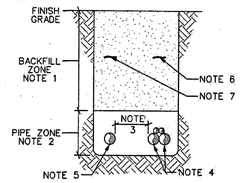

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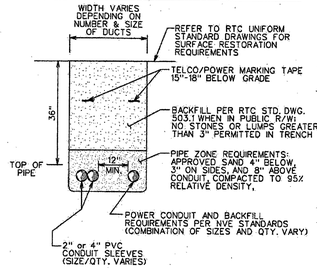
TYPICAL SLEEVE TRENCH DETAIL
(TELEPHONE CONDUIT IN JOINT TRENCH W/ PWR)



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N

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APPROVAL _____ DATE 6/19/19

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Project Description: RESIDENTAIL FIBER TO THE PREMISE (FTTP) - HEXATRONIC		Engineering Contact	Name: Lori Johnson Phone Number: 702-244-7899
Project # N.505904	WC CLLI: LSVGNVXVW	Contract Engineer	Name: Tyler Owen Phone Number: 702-395-2776
Community Name: SUMMERLIN VILLAGE 24 PARCEL I		Construction Coordinator	Name: Stacie Booth Phone Number: 702-244-7830
WEST WEST	Remote Switch Exchange Key: N/A	1	Revision 1: Moved single duct from South side of lot 55 to North side

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Sheet: 6A | *Issue Date: 05/10/19*

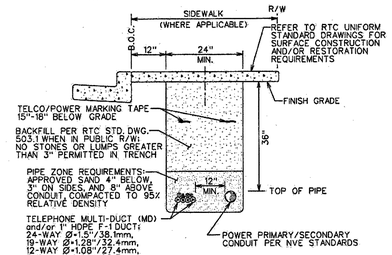
F-2: HEXATRONIC LAYOUT

TOTAL HEXATRONIC QUANTITIES:		
MATERIAL (HEX)	DESIGN EST.	ORDER QTY.
* 24W MULTI-DUCT	9,738	9,840
1W SINGLE-DUCT	18,534	21,320
DJC	33 EACH	33 EACH

THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT CENTURYLINK DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OR DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

SINGLE-DUCT (S.D.) NOTE:
1) CONTRACTOR TO COIL, TEST AND END CAP THE SINGLE-DUCT (S.D.) AT EACH LOT LINE WHERE DESIGNATED ON THE DRAWINGS.
2) LABEL EACH S.D. WITH THE LOT NUMBER.
3) LEAVE SUFFICIENT AMOUNT OF SINGLE-DUCT COILED AT THE SIDE LOT TRENCH TO REACH THE ENTRY POINT OF EACH HOME. NOTE THAT LENGTHS VARY TO EACH HOME DUE TO VARYING SETBACKS AT EACH LOT.
4) S.D. WILL BE EXTENDED TO EACH HOME AT A LATER DATE WHEN THE SIDE LOT TRENCHES ARE OPENED.

TYPICAL TRENCH SECTION (HEXATRONIC)
(TELEPHONE MULTI-DUCT IN JOINT TRENCH W/ PWR)



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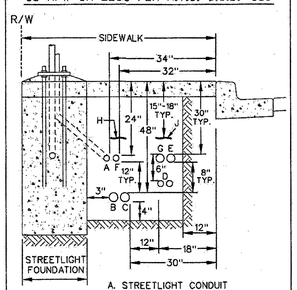
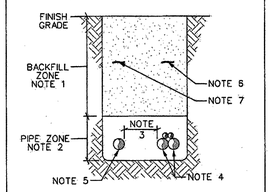
TYPICAL UNDERGROUND UTILITY LOCATIONS RESIDENTIAL STREETS
60' R/W OR LESS PER R.T.C. U.S.D. #501



A. STREETLIGHT CONDUIT
B. POWER COMPANY SECONDARY
C. POWER COMPANY PRIMARY
D. TELEPHONE CONDUITS
E. CABLE T.V. CONDUIT
F. TRAFFIC SIGNAL CONDUIT
G. OTHER COMMUNICATIONS CONDUIT
H. POWER MARKING TAPE
J. TELEPHONE MARKING TAPE

PIPE ZONE REQUIREMENTS



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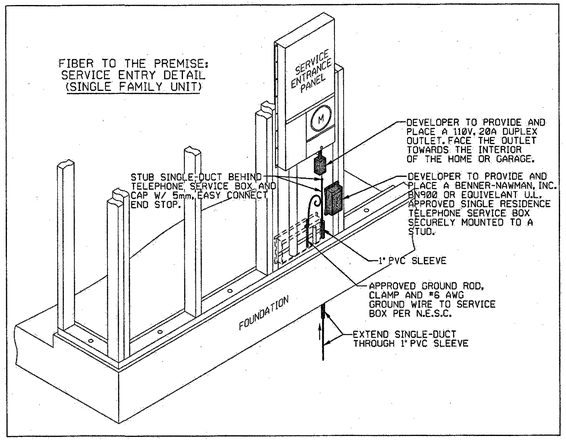
FIBER TO THE PREMISE: SERVICE ENTRY DETAIL (SINGLE FAMILY UNIT)



DEVELOPER/CONTRACTOR NOTE:
CALL CENTURYLINK's CONTROL CENTER AT 702-244-7811 TO SCHEDULE INSPECTIONS OF OPEN TRENCH AS REQUIRED. ALLOW 48 HOURS ADVANCE NOTICE FOR DIRECT BURIED MULTI-DUCT IN OPEN TRENCH AND SIDE-LOT TRENCH SECTIONS. THE 48 HOURS BEGINS AFTER THE CENTURYLINK INSPECTOR APPROVES THE OPEN TRENCH.

FIBER TO THE PREMISE (FTTP) / SINGLE FAMILY HOMES
MINIMUM INSIDE WIRING REQUIREMENTS FOR CUSTOMER OWNED PREMISE WIRE (COPW)

CUSTOMER OWNED PREMISE WIRE (COPW) SHALL CONSIST OF ONE SEPARATE CAT-5E/CAT6 FOR VOICE AND ONE SEPARATE CAT-5E/CAT6 FOR VIDEO/DATA. COPW SHALL BE RAN FROM THE OUTDOOR TELEPHONE SERVICE BOX TO EACH RJ11 (VOICE) AND RJ45 (DATA) JACK AS DESIGNATED BY THE BUILDER.

CAT5E/CAT6 CABLE HAS AN EFFECTIVE RANGE OF 100 METERS OR 328 FEET. THE TOTAL LENGTH BETWEEN THE OUTDOOR DEMARK AND THE END ELECTRONICS SHOULD NOT EXCEED 328 FEET.

CONTACT THE CENTURYLINK ENGINEER FOR ADDITIONAL INFORMATION REGARDING CENTURYLINK's FIBER TO THE PREMISE DEPLOYMENTS FOR SINGLE FAMILY HOMES.

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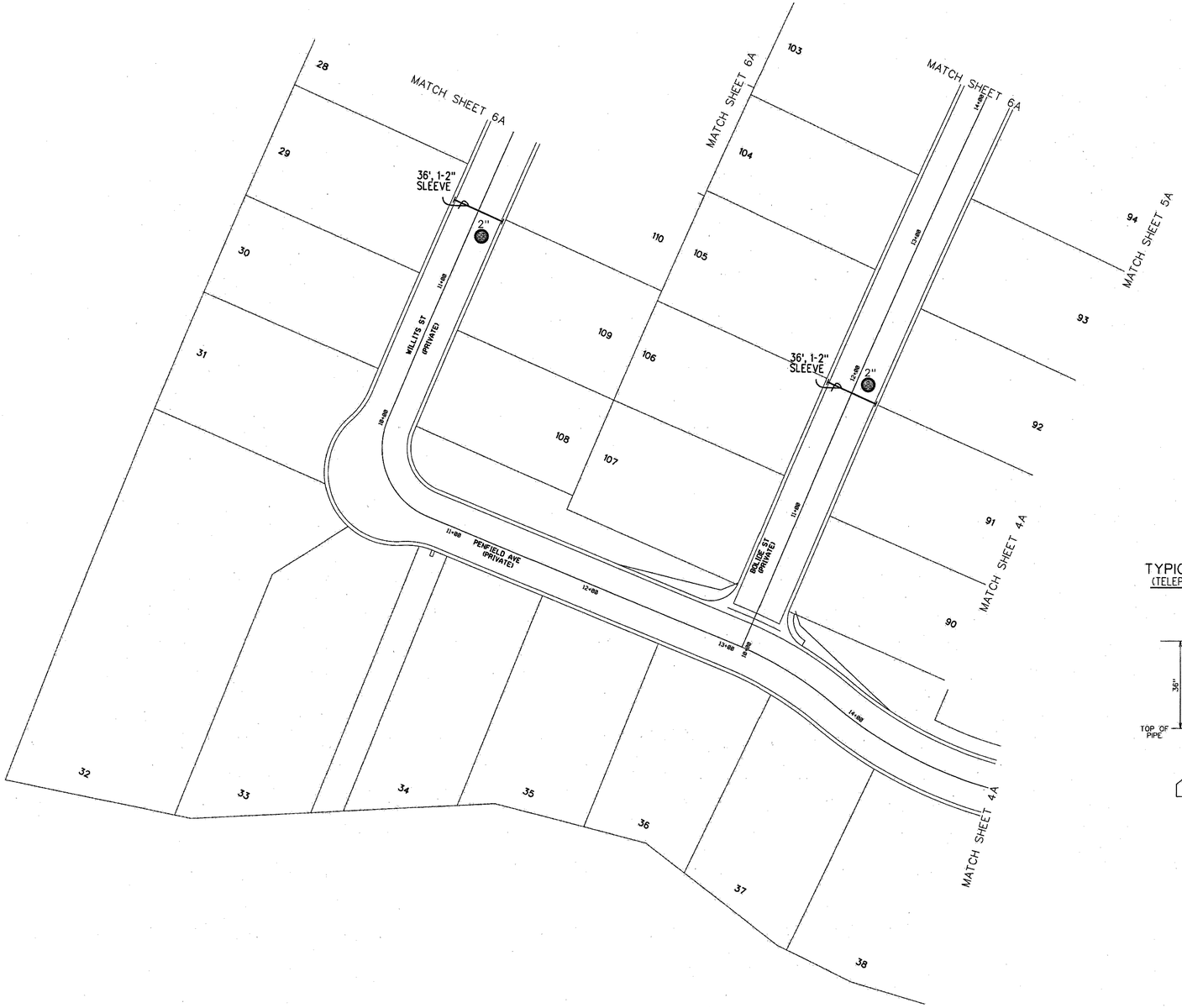
STREET CROSSINGS - SLEEVES



RE-IMBURSEABLE PROJECT QUANTITIES THE DEVELOPER'S CONTRACTOR MAY SUBMIT A PROPOSAL FOR THIS WORK PER THE LATEST STANDARD CONTRACTOR PRICE LIST.	
MATERIAL ITEMS (ALL TRENCHING BY DEVELOPER)	EST. QTY.
4" D.B. 100 GRADE PVC	399 L.F.
2" D.B. 60 GRADE PVC	542 L.F.
4"x48" SCH. 40 PVC 90° BENDS	0 EACH
2"x36" SCH. 40 PVC 90° BENDS	1 EACH

TYPICAL UNDERGROUND UTILITY LOCATIONS
RESIDENTIAL STREETS
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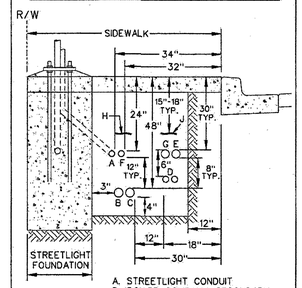

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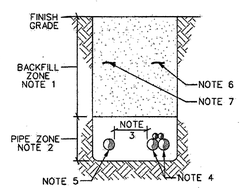

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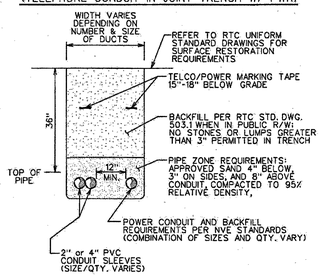

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