

GENERAL NOTES

- 1. ALL CONSTRUCTION, EXCEPT FOR TMWA FACILITIES, SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION (2012 EDITION AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AND DISTRIBUTED BY RENO, SPARKS, AND WASHOE COUNTY, THE CITY OF RENO PUBLIC WORKS DESIGN MANUAL & SUPPLEMENTAL STANDARD DRAWING DETAILS, REVISED JANUARY, 2009, AND THE GEOTECHNICAL INVESTIGATION ENTITLED "SANTERIA-QUILLICI PROPERTIES RENO, NEVADA - GEOTECHNICAL EXPLORATION", PREPARED BY ENGeo INCORPORATED, DATED NOVEMBER 16, 2020.

REVEGETATION NOTES

PART 1 GENERAL
THE CONTRACTOR SHALL REQUEST THAT TREATMENT BOUNDARIES ARE LOCATED BY THE OWNER PRIOR TO PROGRESSING WITH THE WORK. ALL REVEGETATION WORK SHALL BE PERFORMED BY A QUALIFIED LANDSCAPE CONTRACTOR LICENSED IN THE STATE OF NEVADA (C-10). THE REVEGETATION WORK SHALL CONSIST OF SEEDBED PREPARATION, SEEDING, HYDROSEEDING, WEED CONTROL, MAINTENANCE, AND A THREE-YEAR WARRANTY. IT EXCLUDES THE USE OF ANY TYPE OF FERTILIZER OR SOIL AMENDMENT, INCLUDING COMPOST.

PART 4 PERFORMANCE STANDARD AND ACCEPTANCE

REVEGETATED AREAS WILL BE INSPECTED BY THE OWNER OR THEIR REPRESENTATIVE AT COMPLETION OF INSTALLATION AND ACCEPTED SUBJECT TO COMPLIANCE WITH SPECIFIED MATERIALS AND INSTALLATION REQUIREMENTS. THE OWNER IS RESPONSIBLE FOR ACHIEVING 70% OF BASELINE (REFERENCE) NATIVE AND ADAPTED SPECIES VEGETATIVE COVER THREE YEARS FOLLOWING FINAL TREATMENTS.

TRUCKEE MEADOWS REGIONAL STORMWATER QUALITY 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 ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF WASHOE 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.

TABLE 1. REVEGETATION SEED MIX
BOTANICAL NAME COMMON NAME/VARIETY PLS LBS./ACRE
ACHILLEA MILLEFOLIUM YARROW 0.10
AGROPYRON CRISTATUM CRESTED WHEATGRASS 4.00

2.2 RECYCLED PAPER MULCH

MULCH SHALL CONSIST OF CONSIST OF 100%-RECYCLED NEWSPRINT, CHIPBOARD, CORRUGATED CARDBOARD, OR A COMBINATION OF THESE MATERIALS, AND SHALL BE FREE FROM WEEDS OR OTHER FOREIGN MATTER TOXIC TO SEED GERMINATION.

2.3 TACKIFIER

MATERIAL SHALL BE OF AN ORGANIC, PLANT-DERIVED SUBSTANCE CONTAINING PSYLLIUM, GUAR GUM, OR CORN STARCH. MATERIAL SHALL FORM A TRANSPARENT 3-DIMENSIONAL FILM-LIKE CRUST PERMEABLE TO WATER AND AIR AND CONTAINING NO AGENTS TOXIC TO SEED GERMINATION.

PART 3 INSTALLATION OF TREATMENTS

CONTRACTOR SHALL NOTIFY THE OWNER OR THEIR REPRESENTATIVE NO LESS THAN 72 HOURS IN ADVANCE OF REVEGETATION WORK AND SHALL NOT BEGIN THE WORK UNTIL PREPARED TREATMENT AREAS HAVE BEEN APPROVED.

3.1 PREPARATION OF SEED BEDS.

ALL COMPACTED SOILS (GREATER THAN 85%) SHALL BE THOROUGHLY LOOSENEED TO A DEPTH OF UP TO SIX INCHES WITH RIPPERS, OR OTHER EQUIPMENT APPROVED BY OWNER OR THEIR REPRESENTATIVE. DO NOT TILL, APPLY ON-SITE SCREENED TOPSOIL AT A DEPTH OF 3 INCHES AND THOROUGHLY MIX INTO THE TOP 6 INCHES OF SOIL.

3.2 SEEDING

ALL SEEDING SHALL BE IN THE FALL AND/OR PRIOR TO PERMANENT SNOW COVER AND BEFORE MARCH 15 OR AS SPECIFIED BY OWNER OR THEIR REPRESENTATIVE IF IRRIGATED. EVENLY HAND BROADCAST SEED AND RAKE TO COVER TO A DEPTH OF 1/4 - 1/2". SEED SHALL NOT BE LEFT UNCOVERED MORE THAN 24 HOURS UNLESS OTHERWISE APPROVED BY THE OWNER OR THEIR REPRESENTATIVE.

3.3 HYDROMULCHING

A HYDRO SEEDER WITH A PADDLE WHEEL AGITATOR SHALL BE USED TO EVENLY APPLY THE MIXTURE AT THE FOLLOWING RATES UNDER SUSPENSION UNLESS OTHERWISE APPROVED. MIX IN ACCORDANCE WITH THE FOLLOWING:

- RECYCLED PAPER MULCH: 2,000 LBS./ACRE
TACKIFIER: 200 LBS./ACRE
WATER: AS NEEDED

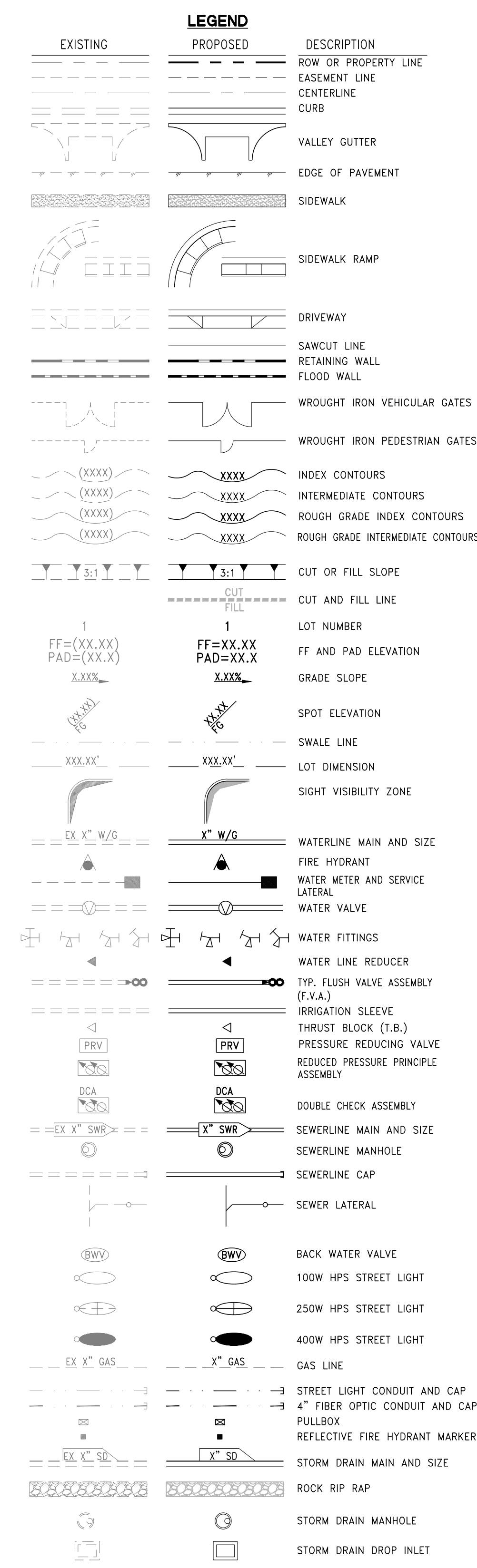


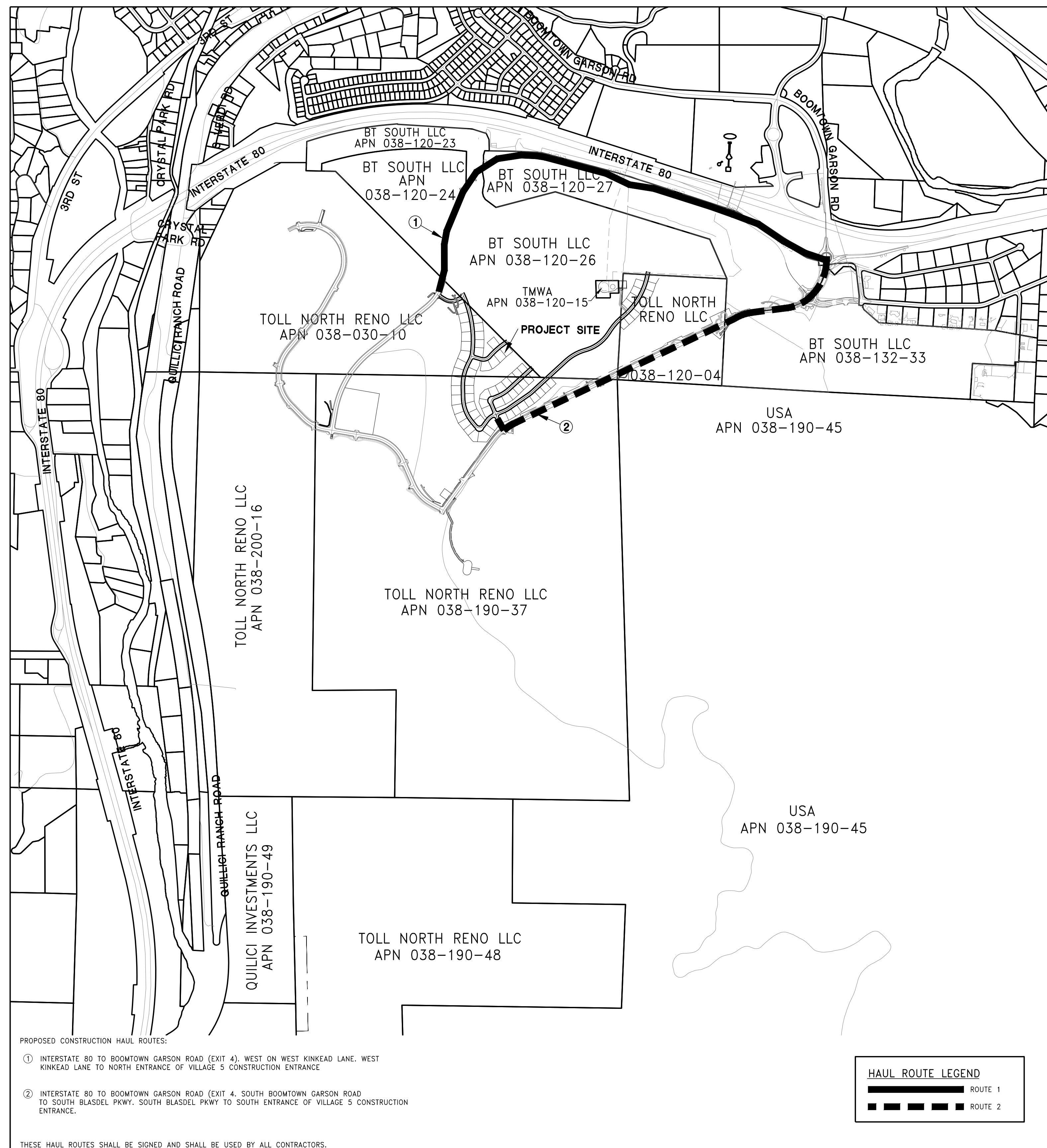
Table with columns: DATE, BY, DESCRIPTION, REV. Includes project details like DATE: November 17, 2023, HORIZ. SCALE: N/A, VERT. SCALE: N/A, DRAWN BY: SN, DESIGNED BY: MD, CHECKED BY: CLC, APPROVED BY: CLC, PROJECT #: 3110.0063.

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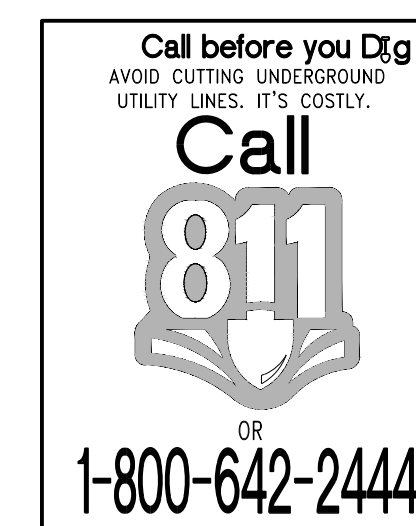
MASS GRADING PLANS FOR QUILLICI RANCH VILLAGE SB A SINGLE FAMILY RESIDENTIAL SUBDIVISION GENERAL CONSTRUCTION & UTILITY NOTES
PROFESSIONAL ENGINEER STATE OF NEVADA CHRISTOPHER QUILLICI CIVIL No. 14872 Exp. 12/31/2024
DATE: 11/17/2023

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DRAWING N-1 SHT 2 OF 16



CONSTRUCTION MANAGEMENT AND ACCESS PLAN
 QUILICI RANCH - VILLAGE 5B



REV	DESCRIPTION	BY	DATE

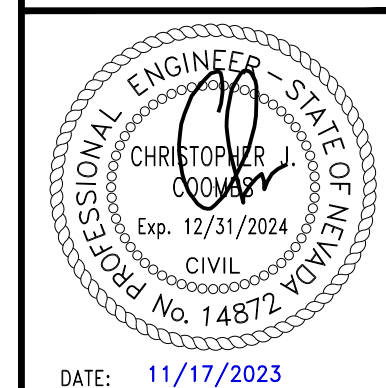
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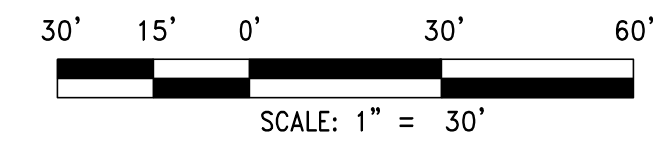
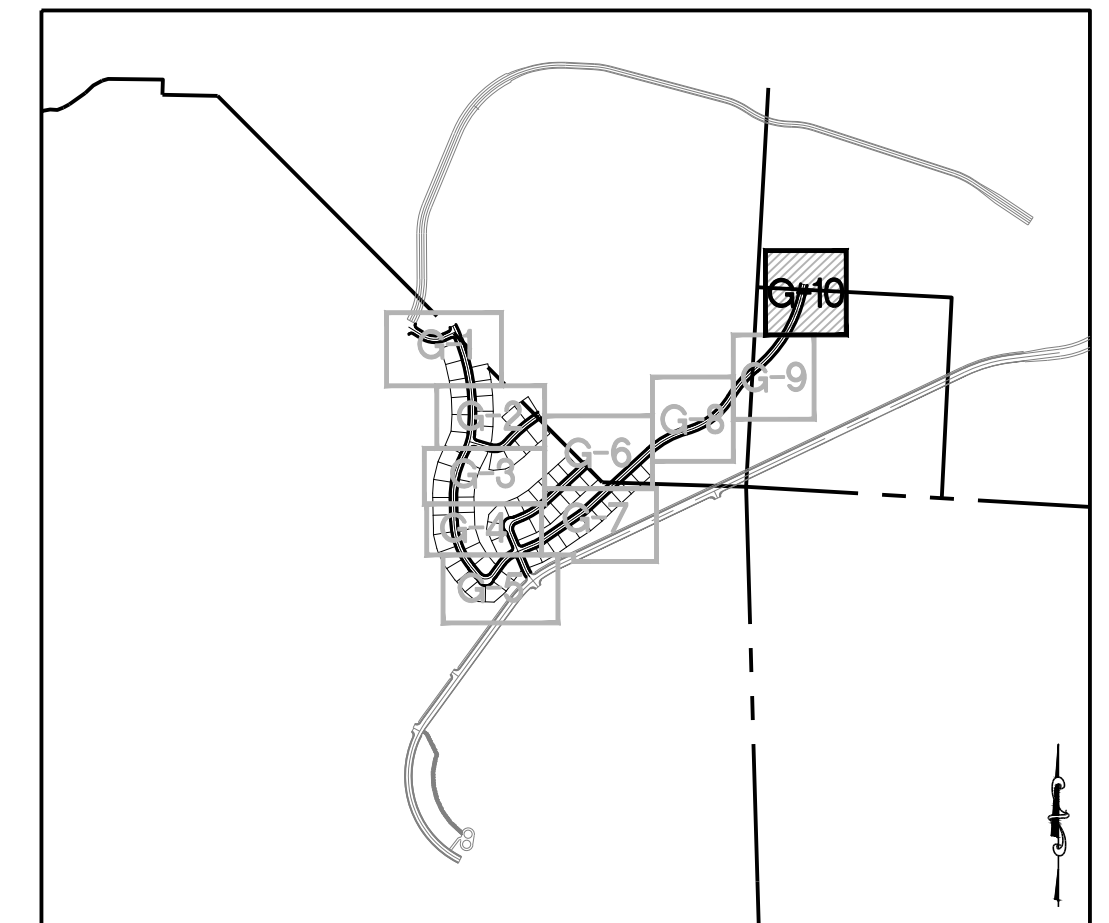
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MASS GRADING PLANS FOR
QUILICI RANCH VILLAGE 5B
 A SINGLE FAMILY RESIDENTIAL SUBDIVISION
 PROPOSED HAUL ROUTE

CITY OF RENO NEVADA



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NOTES

THESE PLANS ARE FOR MASS GRADING PURPOSES ONLY. THE SITE SHALL BE FINE GRADED UNDER SEPARATE PERMIT. APPROVAL OF THIS PERMIT IS AT THE DEVELOPER'S RISK. ANY CHANGES/REVISIONS AS REQUIRED AT THE FINAL MAP PHASE MUST BE COMPLETED AT THE SOLE RESPONSIBILITY OF THE DEVELOPER.

UPON COMPLETION OF THE GRADING AND PRIOR TO APPLICATION OF REVEGETATION MATERIALS, REPRESENTATIVES FROM THE DEVELOPER, THE CONTRACTOR, THE ENGINEER OF RECORD AND CITY OF RENO SHALL MEET ON THE SITE TO DETERMINE THE FINAL SLOPE GRADING AND SLOPE TREATMENTS.

SLOPE STABILIZATION NOTES

- AREAS OF SLOPE GREATER THAN 3:1 ALL SLOPES WITH A GRADIENT OF GREATER THAN 3:1 SHALL BE STABILIZED WITH ONE OF THE FOLLOWING METHODS:
 - OPTION A: RE-VEGETATION PER THIS SPECIFICATION:
 - STEP 1: PROGANICS® BIOTIC SOIL MEDIA WILL BE HYDRAULICALLY APPLIED AT 4,000 POUNDS PER ACRE WITH AN APPROVED DRYLAND NATIVE SEED MIX AT 60 PLS LBS./ACRE.
 - STEP 2: FLEXITERRA® FLEXIBLE GROWTH MEDIUM WILL BE HYDRAULICALLY APPLIED AT 3,500 POUNDS PER ACRE.
 - NOTE: TREATED SLOPES WILL BE TEMPORARILY IRRIGATED AS NEEDED BASED ON FIELD OBSERVATION OF EXPECTED GERMINATION.
 - OPTION B: PLACEMENT OF LOOSE ROCK RIP RAP WITH #50 OF 6" AND 12" BLANKET THICKNESS OVER THE ENTIRE SLOPE AREA.

REFERENCE SHEET N-1 FOR NOTES

NOTE: RETAINING WALLS TO BE PERMITTED SEPARATELY

BENCHMARK

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS TAKEN FROM NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) CONTROL MONUMENT 1332104, HAVING A PUBLISHED ELEVATION OF 5091.40 FEET. 1332104 IS DESCRIBED AS A 3 INCH NDOT BRASS CAP ON PIPE, STAMPED "119 R18E S17/S16/S20/S21 1998 ? 0.1 FOOT ABOVE GROUND LEVEL IN A MOUND OF STONES. A "U" CHANNEL POST AND SURVEY MARKER PADDLE ARE 10 FEET EAST AS A WITNESS. A 4 STRAND BARBED WIRE FENCE IS 2 FEET EAST. MONUMENT IS OFF OF I-80 WEST BOUND AT THE BOOMTOWN EXIT. TRAVEL SOUTH ON GARSON ROAD TO FIRE STATION (SIERRA FIRE PROTECTION DIST) AT SOUTH END OF GARSON ROAD. HEAD WEST ON GATED DIRT ROAD ON WEST SIDE OF FIRE STATION ALONG NORTH SIDE OF STEAMBOAT DITCH FOR 0.5 MILE. MONUMENT IS 100' SOUTH.

BASIS OF BEARINGS

GRID NORTH, MODIFIED NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1984 (NAD 83/84) DETERMINED USING REAL TIME KINEMATIC GPS (RTK GPS) OBSERVATIONS OF NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) CONTROL MONUMENTS 1332104 AND 1332107. COMBINED GRID TO GROUND FACTOR = 1.000197939. ALL DISTANCES SHOWN HERE ARE GROUND VALUES.

FLOOD ZONE NOTE: THIS PROJECT LIES ENTIRELY WITHIN A FEMA UNSHADED ZONE X PER FIRM MAP PANEL 32031C3013G, EFFECTIVE MARCH 16, 2009

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REV	DESCRIPTION	BY	DATE

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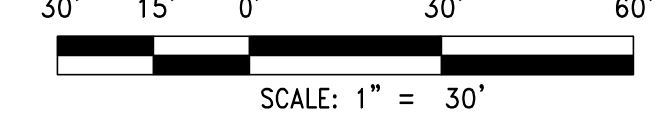
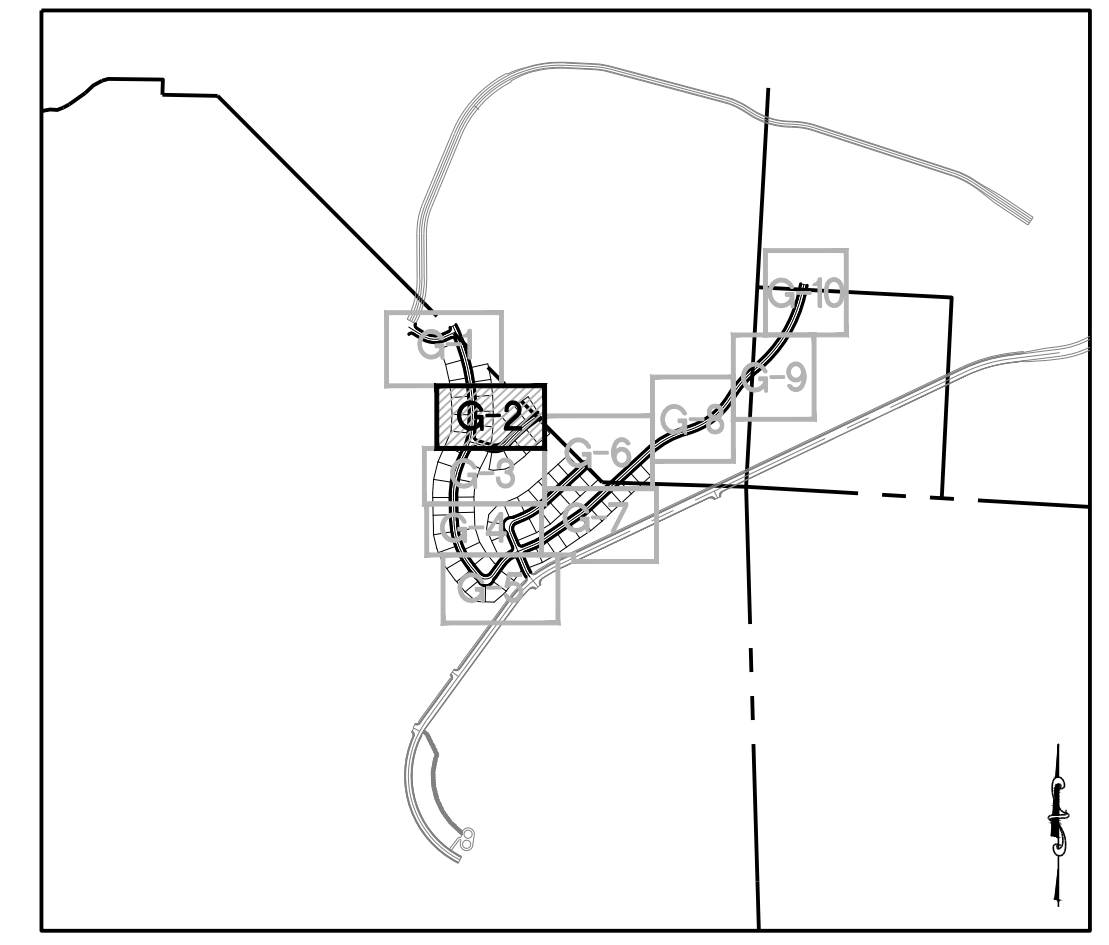
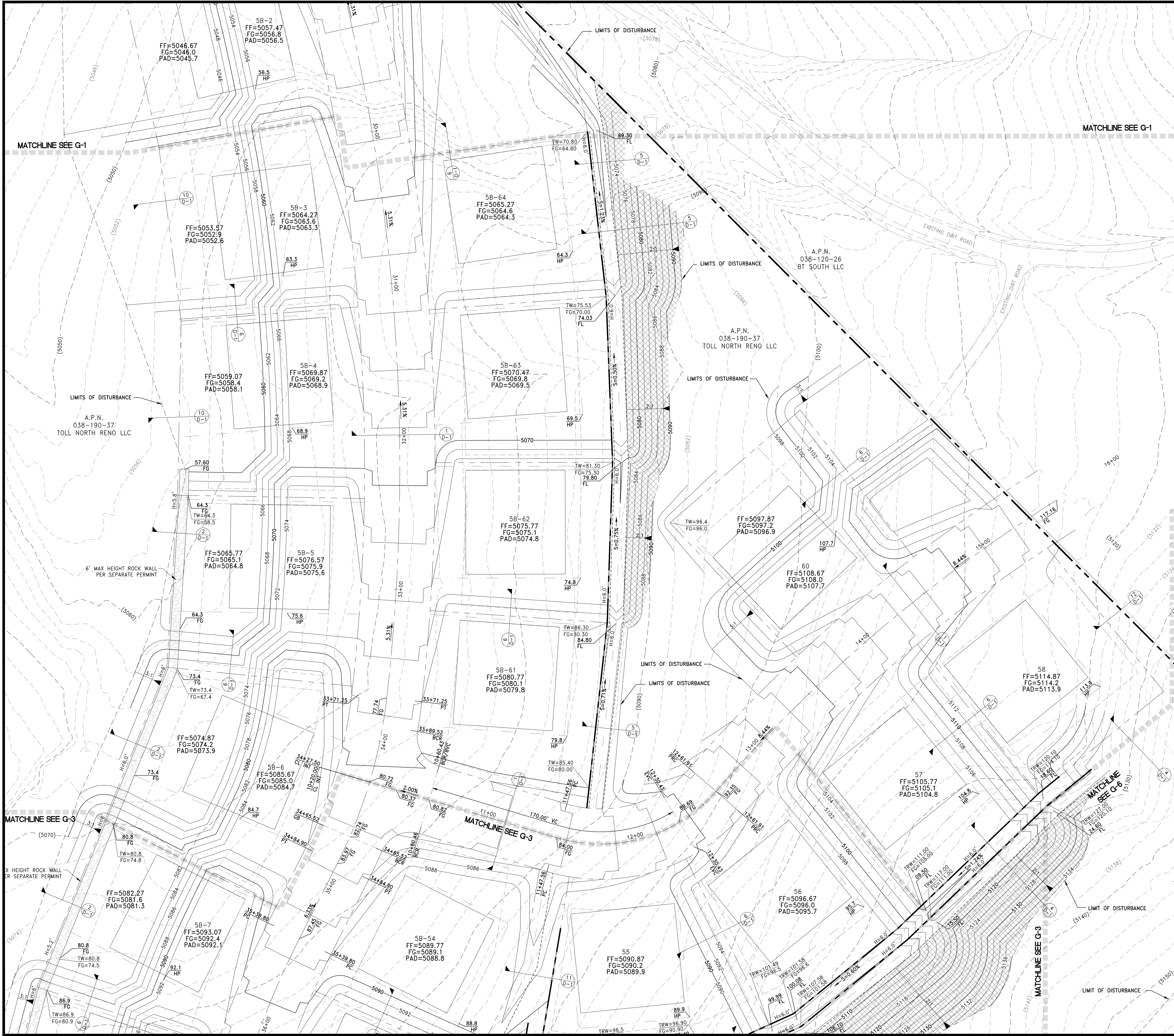
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MASS GRADING PLANS FOR
QUILLICI RANCH
VILLAGE 5B
A SINGLE FAMILY RESIDENTIAL SUBDIVISION
GRADING PLAN (SHEET 10 OF 10)

CITY OF RENO NEVADA

DATE: 11/17/2023

DRAWING
G-10
SHT 13 OF 16



NOTES

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ALL SLOPES WITH A GRADIENT OF GREATER THAN 3:1 SHALL BE STABILIZED WITH ONE OF THE FOLLOWING METHODS:

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RE-VEGETATION PER THIS SPECIFICATION:

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FLOOD ZONE NOTE:
THIS PROJECT LIES ENTIRELY WITHIN A FEMA UNSHADED ZONE X PER FIRM MAP PANEL 32031C3013G. EFFECTIVE MARCH 16, 2009

DATE:	November 17, 2023
HORIZ. SCALE:	N/A
VERT. SCALE:	N/A
DRAWN BY:	SN
DESIGNED BY:	MD
CHECKED BY:	CLT
APPROVED BY:	CJC
PROJECT #:	3110.0063

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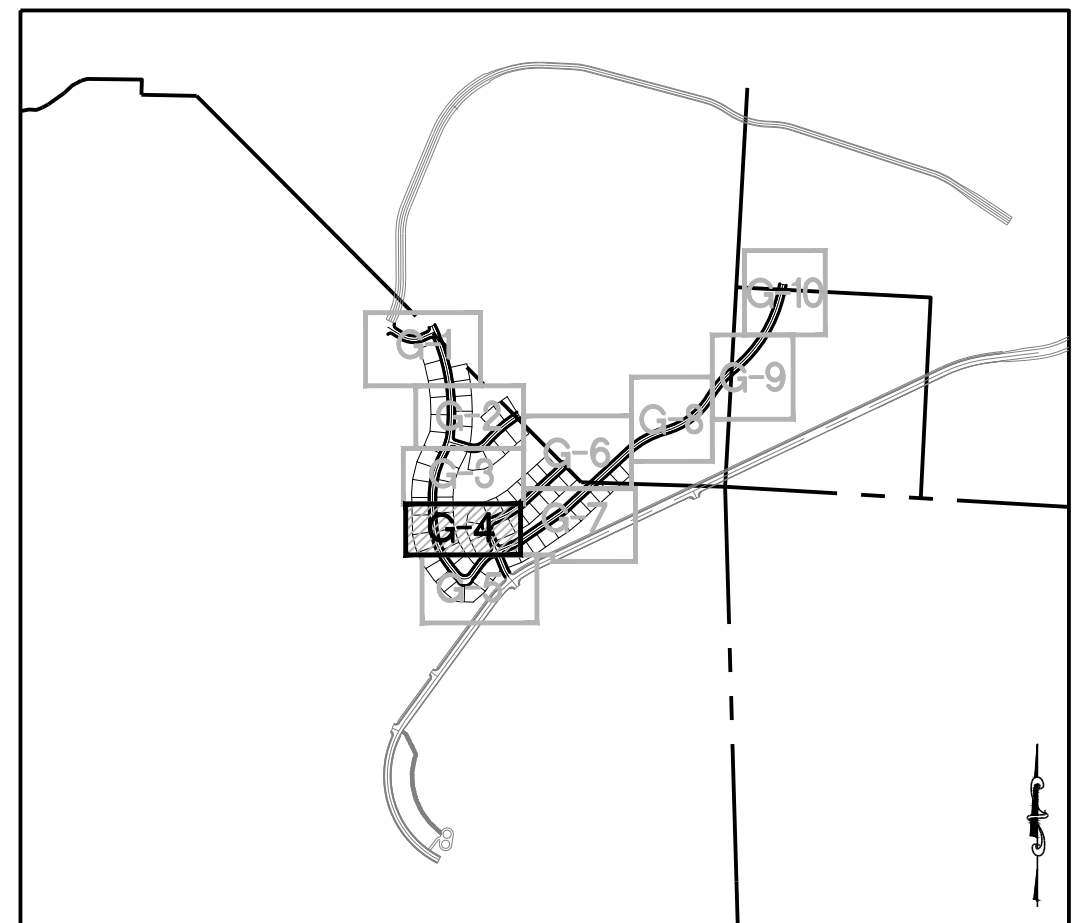
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MASS GRADING PLANS FOR
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 GRADING PLAN (SHEET 4 OF 10)**

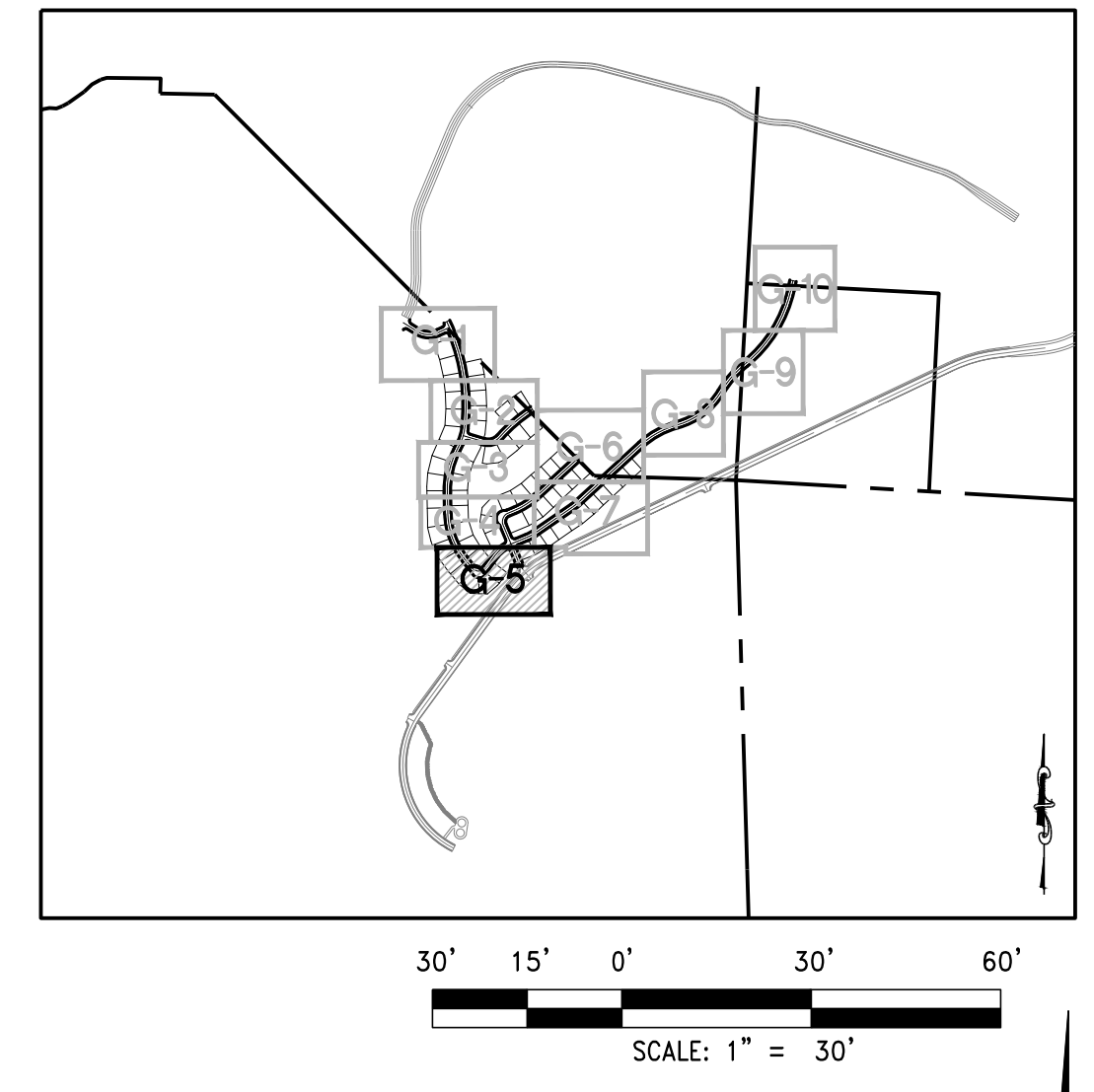
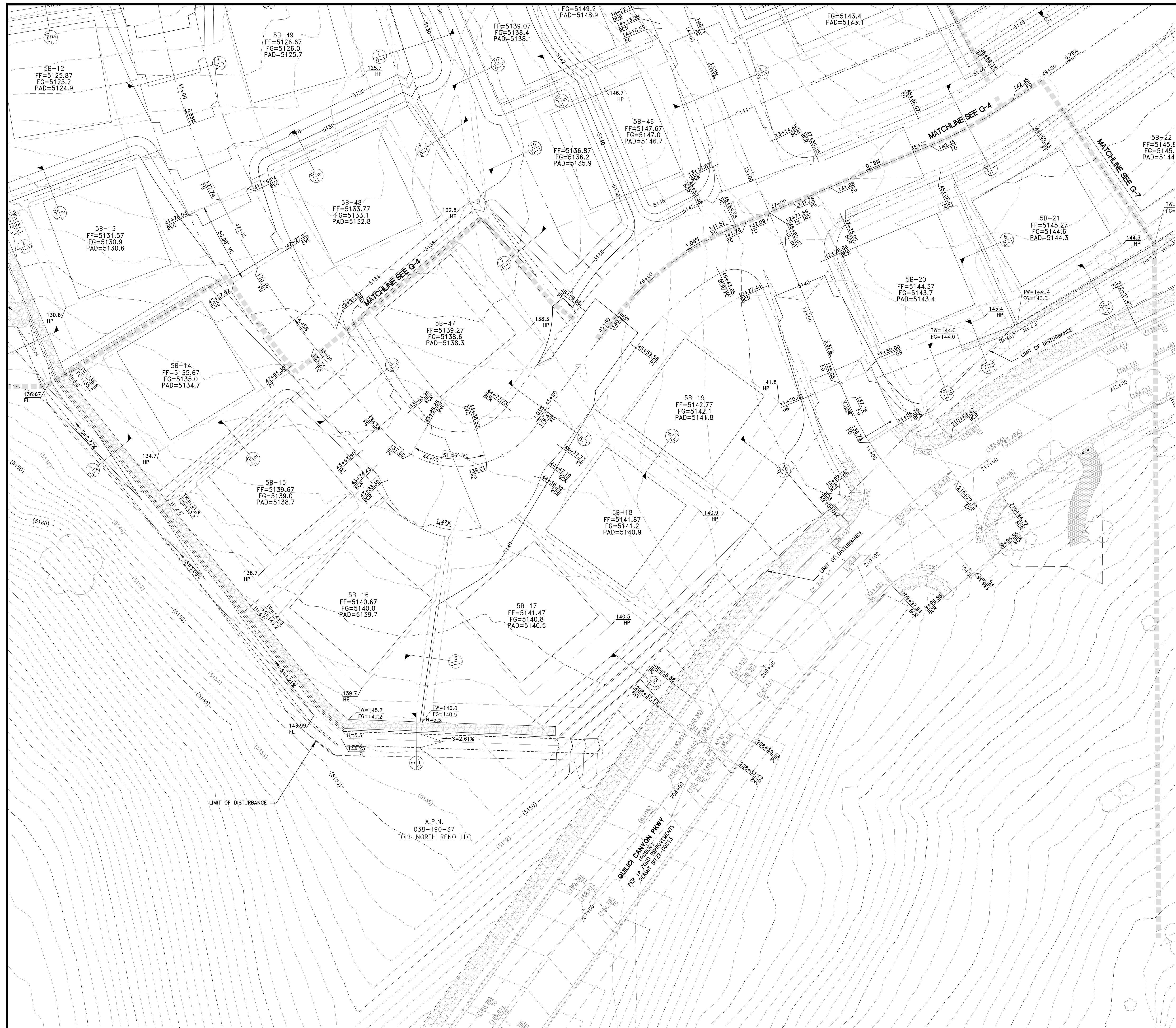
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MASS GRADING PLANS FOR
QUILLICI RANCH
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A SINGLE FAMILY RESIDENTIAL SUBDIVISION
GRADING PLAN (SHEET 5 OF 10)

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NEVADA

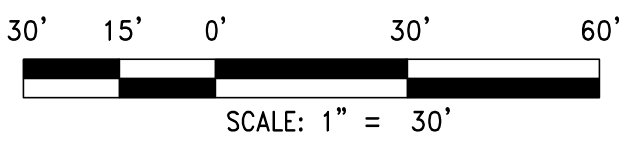
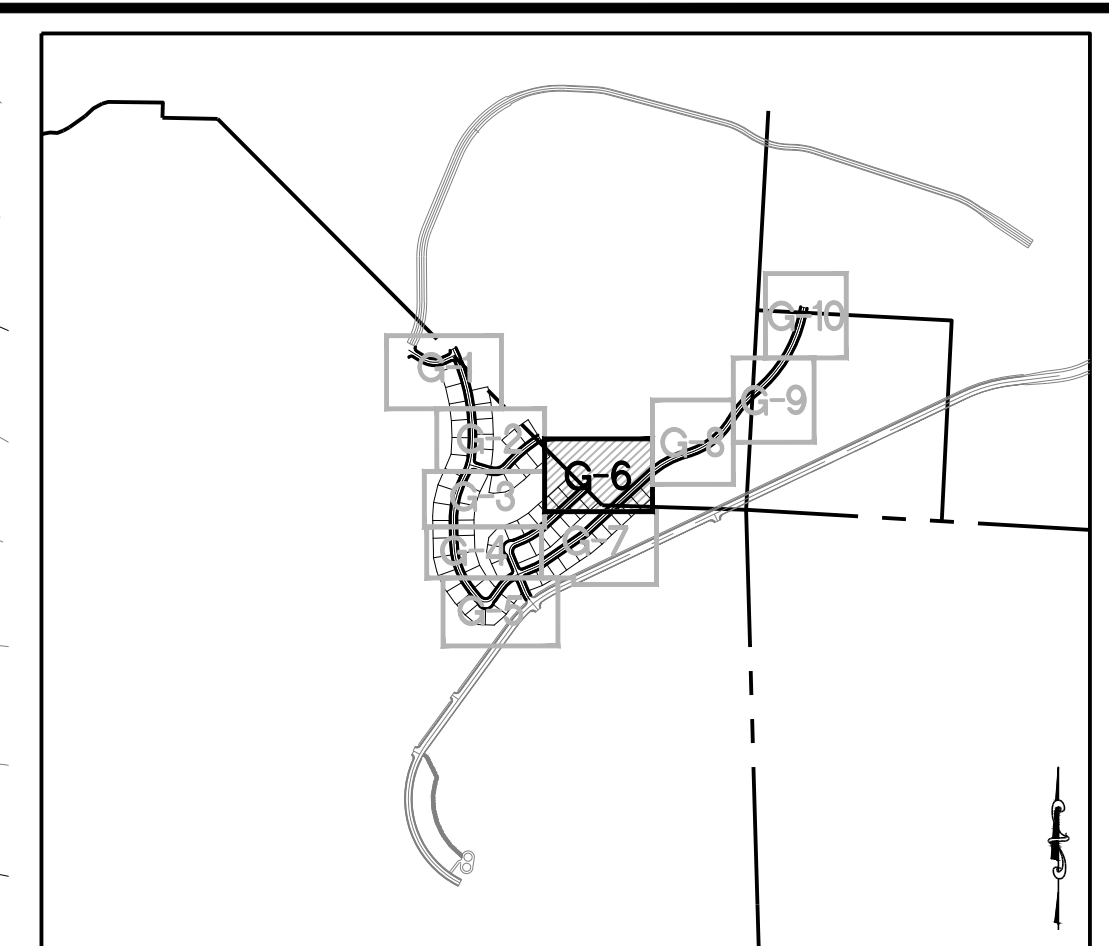
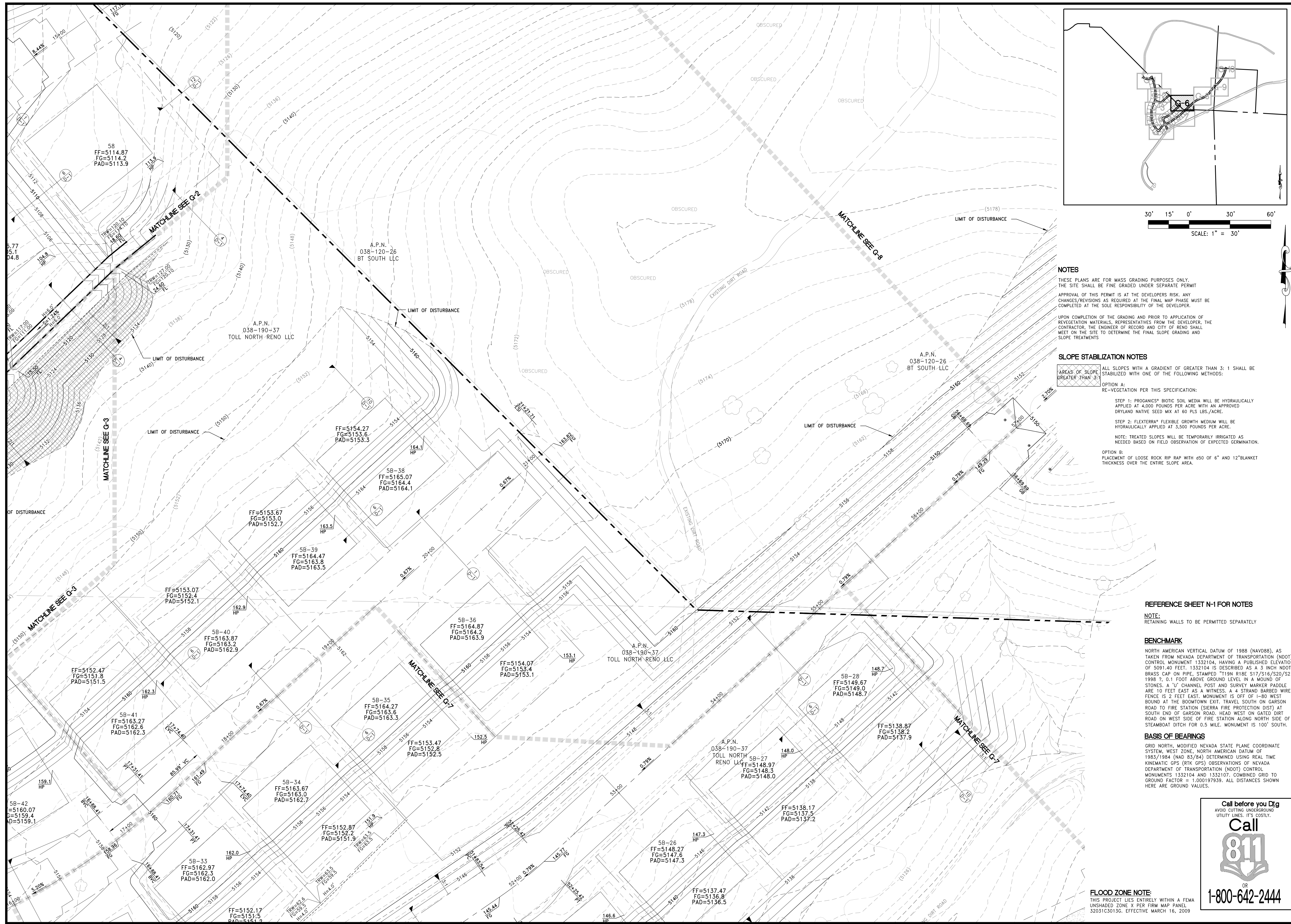


DATE: 11/17/2023

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DRAWING
G-5
SHT 8 OF 16



NOTES
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UPON COMPLETION OF THE GRADING AND PRIOR TO APPLICATION OF REVEGETATION MATERIALS, REPRESENTATIVES FROM THE DEVELOPER, THE CONTRACTOR, THE ENGINEER OF RECORD AND CITY OF RENO SHALL MEET ON THE SITE TO DETERMINE THE FINAL SLOPE GRADING AND SLOPE TREATMENTS.

SLOPE STABILIZATION NOTES
 ALL SLOPES WITH A GRADIENT OF GREATER THAN 3:1 SHALL BE STABILIZED WITH ONE OF THE FOLLOWING METHODS:
 OPTION A:
 RE-VEGETATION PER THIS SPECIFICATION:
 STEP 1: PROGNANCS® BIOTIC SOIL MEDIA WILL BE HYDRAULICALLY APPLIED AT 4,000 POUNDS PER ACRE WITH AN APPROVED DRYLAND NATIVE SEED MIX AT 60 PLS LBS./ACRE.
 STEP 2: FLEXITERRA® FLEXIBLE GROWTH MEDIUM WILL BE HYDRAULICALLY APPLIED AT 3,500 POUNDS PER ACRE.
 NOTE: TREATED SLOPES WILL BE TEMPORARILY IRRIGATED AS NEEDED BASED ON FIELD OBSERVATION OF EXPECTED GERMINATION.
 OPTION B:
 PLACEMENT OF LOOSE ROCK RIP RAP WITH #50 OF 6" AND 12" BLANKET THICKNESS OVER THE ENTIRE SLOPE AREA.

REFERENCE SHEET N-1 FOR NOTES
 NOTE:
 RETAINING WALLS TO BE PERMITTED SEPARATELY

BENCHMARK
 NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS TAKEN FROM NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) CONTROL MONUMENT 1332104, HAVING A PUBLISHED ELEVATION OF 5091.40 FEET. 1332104 IS DESCRIBED AS A 3 INCH NDOT BRASS CAP ON PIPE, STAMPED "119N RISE S17/S16/S20/S21 1988", 0.1 FOOT ABOVE GROUND LEVEL IN A MOUND OF STONES. A "U" CHANNEL POST AND SURVEY MARKER PADDLE ARE 10 FEET EAST AS A WITNESS. A 4 STRAND BARBED WIRE FENCE IS 2 FEET EAST. MONUMENT IS OFF OF I-80 WEST BOUND AT THE BOOMTOWN EXIT. TRAVEL SOUTH ON GARSON ROAD TO FIRE STATION (SIERRA FIRE PROTECTION DIST) AT SOUTH END OF GARSON ROAD. HEAD WEST ON GATED DIRT ROAD ON WEST SIDE OF FIRE STATION ALONG NORTH SIDE OF STEAMBOAT DITCH FOR 0.5 MILE. MONUMENT IS 100' SOUTH.

BASIS OF BEARINGS
 GRID NORTH, MODIFIED NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1984 (NAD 83/84) DETERMINED USING REAL TIME KINEMATIC GPS (RTK GPS) OBSERVATIONS OF NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) CONTROL MONUMENTS 1332104 AND 1332107. COMBINED GRID TO GROUND FACTOR = 1.000197939. ALL DISTANCES SHOWN HERE ARE GROUND VALUES.

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FLOOD ZONE NOTE:
 THIS PROJECT LIES ENTIRELY WITHIN A FEMA UNSHADED ZONE X PER FIRM MAP PANEL 32031C0313G. EFFECTIVE MARCH 16, 2009

DATE: November 17, 2023	REV: 1	DESCRIPTION:
HORIZ. SCALE: N/A	REV: 2	
VERT. SCALE: N/A	REV: 3	
DRAWN BY: SN	REV: 4	
DESIGNED BY: MD	REV: 5	
CHECKED BY: CJC	REV: 6	
APPROVED BY:	REV: 7	
PROJECT #:	REV: 8	
3110.0653	REV: 9	

TOLL BROTHERS
 1045 HARRISON AVENUE, SUITE 200
 RENO, NEVADA 89521
 PH: 775.850.2417

RCI ENGINEERING
 3881 WARREN WAY, 2ND FLOOR, RENO, NEVADA 89509
 PH: 775-800-1660 FAX: 775-453-0801
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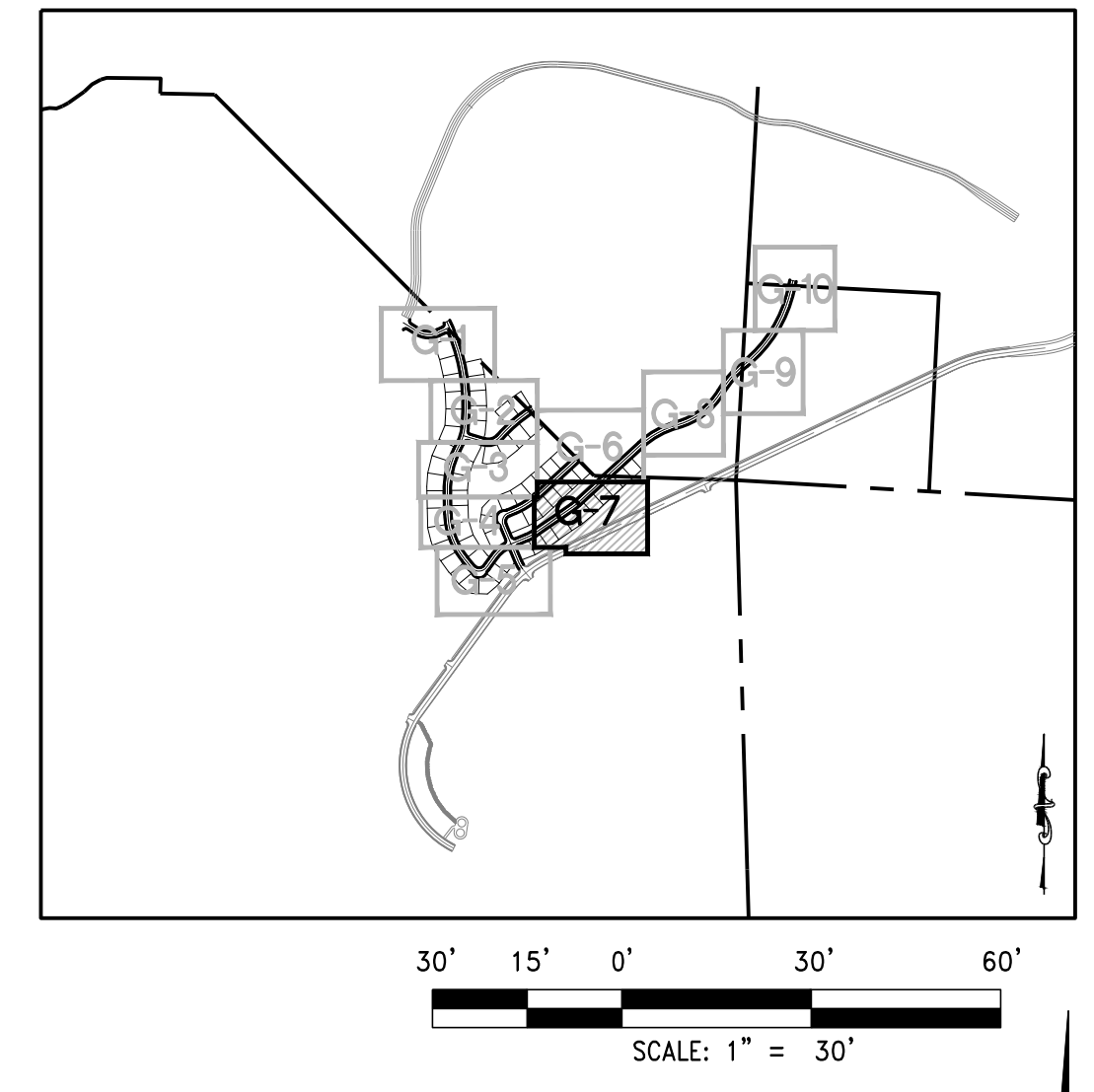
NEVADA

CITY OF RENO

**MASS GRADING PLANS FOR
 QUILLICI RANCH
 VILLAGE 5B
 A SINGLE FAMILY RESIDENTIAL SUBDIVISION
 GRADING PLAN (SHEET 6 OF 10)**

DATE: 11/17/2023

DRAWING
G-6
 SHT 9 OF 16



NOTES

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SLOPE STABILIZATION NOTES

AREAS OF SLOPE GREATER THAN 3:1

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OPTION B:
PLACEMENT OF LOOSE ROCK RIP RAP WITH d_{50} OF 6" AND 12" BLANKET THICKNESS OVER THE ENTIRE SLOPE AREA.

REFERENCE SHEET N-1 FOR NOTES

NOTE:
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BENCHMARK

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FLOOD ZONE NOTE:
THIS PROJECT LIES ENTIRELY WITHIN A FEMA UNSHADED ZONE X PER FIRM MAP PANEL 32031C3013G. EFFECTIVE MARCH 16, 2009

REV	DESCRIPTION	DATE

DATE: November 17, 2023
 HORIZ. SCALE: N/A
 VERT. SCALE: N/A
 DRAWN BY: SN
 DESIGNED BY: MD
 CHECKED BY: CLT
 APPROVED BY: CJC
 PROJECT #: 3110.0963

TOLL BROTHERS
 1045 HARRISON AVENUE, SUITE 200
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 PH: 775.850.2417

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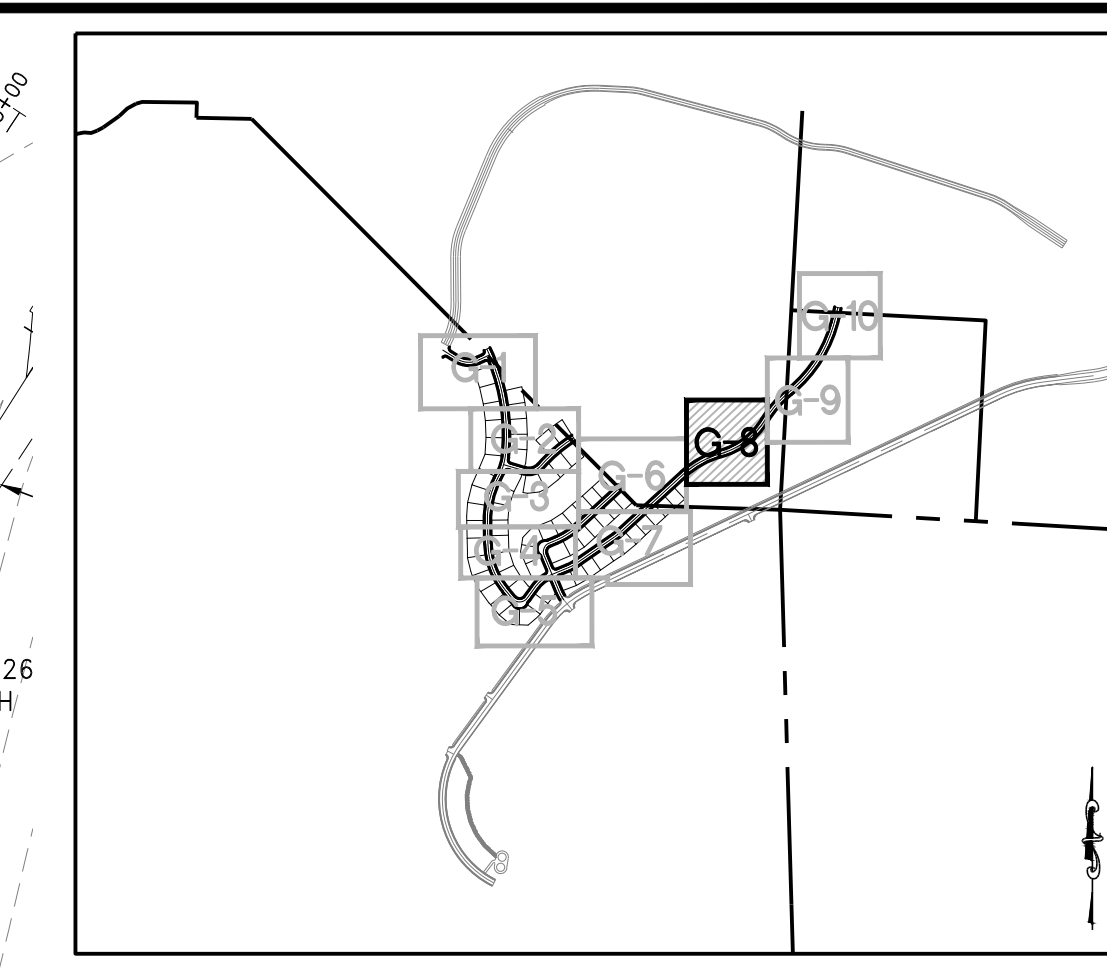
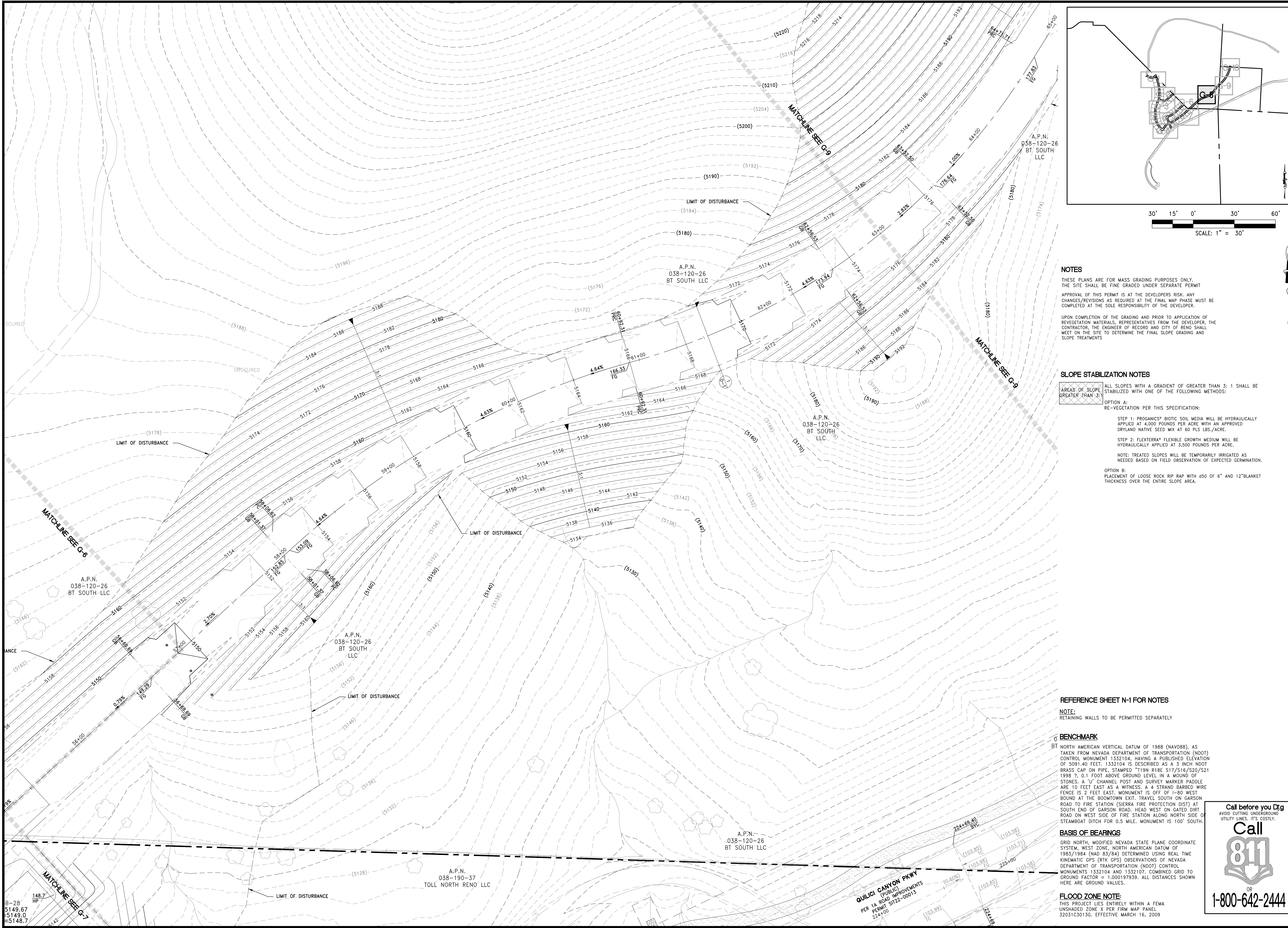
MASS GRADING PLANS FOR
QUILLICI RANCH
 VILLAGE 5B
 A SINGLE FAMILY RESIDENTIAL SUBDIVISION
 GRADING PLAN (SHEET 7 OF 10)



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DATE:	November 17, 2023
HORIZ. SCALE:	N/A
VERT. SCALE:	N/A
DRAWN BY:	SN
DESIGNED BY:	MD
CHECKED BY:	CJT
APPROVED BY:	CJC
PROJECT #:	3110.0063

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FLOOD ZONE NOTE:
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REVISION	DATE	BY

TOLL BROTHERS
1045 HARRISON AVENUE, SUITE 200
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PH: 775.850.2417

RCI ENGINEERING
3881 WARREN WAY, 2ND FLOOR, RENO, NEVADA 89509
PH: 775-800-1660 FAX: 702-453-0801
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MASS GRADING PLANS FOR
QUILLICI RANCH VILLAGE SB
A SINGLE FAMILY RESIDENTIAL SUBDIVISION
GRADING PLAN (SHEET 8 OF 10)

CITY OF RENO, NEVADA

PROFESSIONAL ENGINEER
CHRISTOPHER J. COLLINS
Exp. 12/31/2024
CIVIL
No. 14872

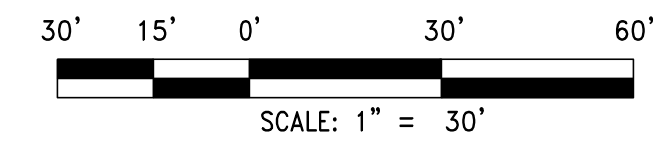
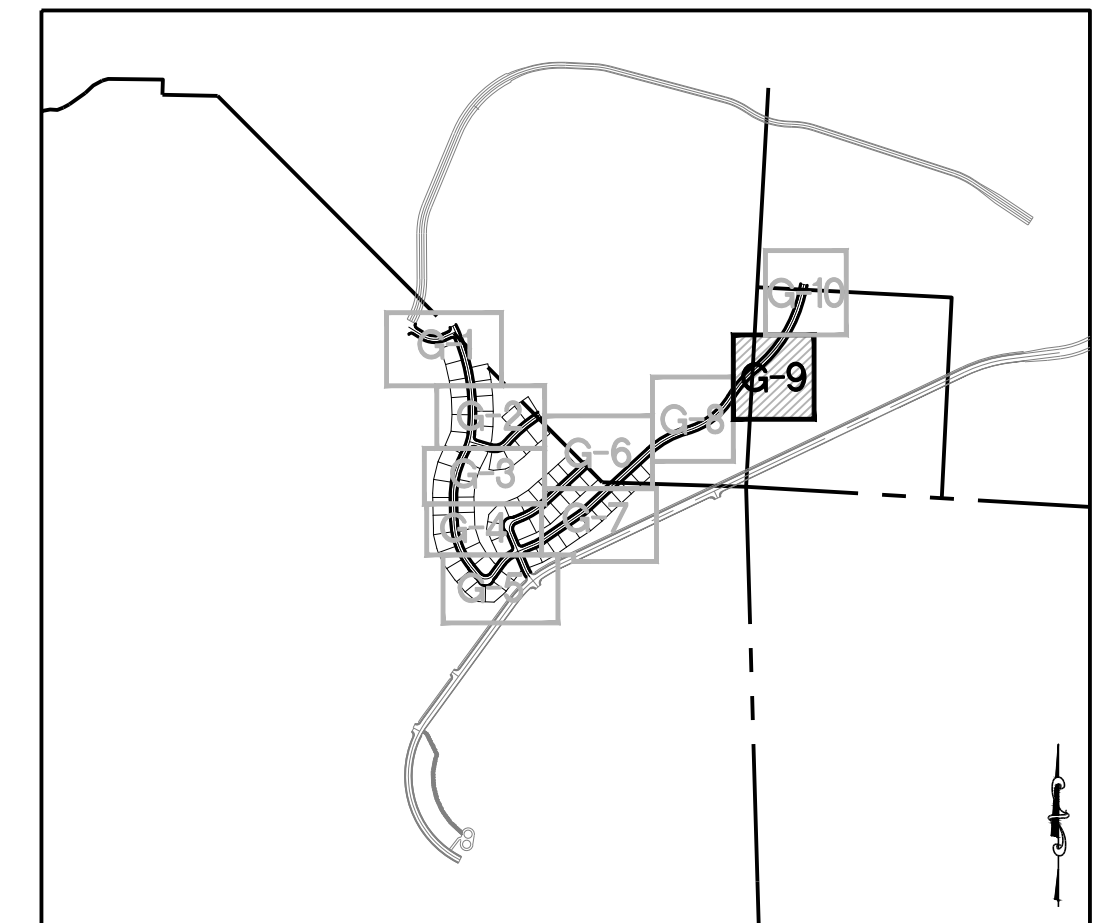
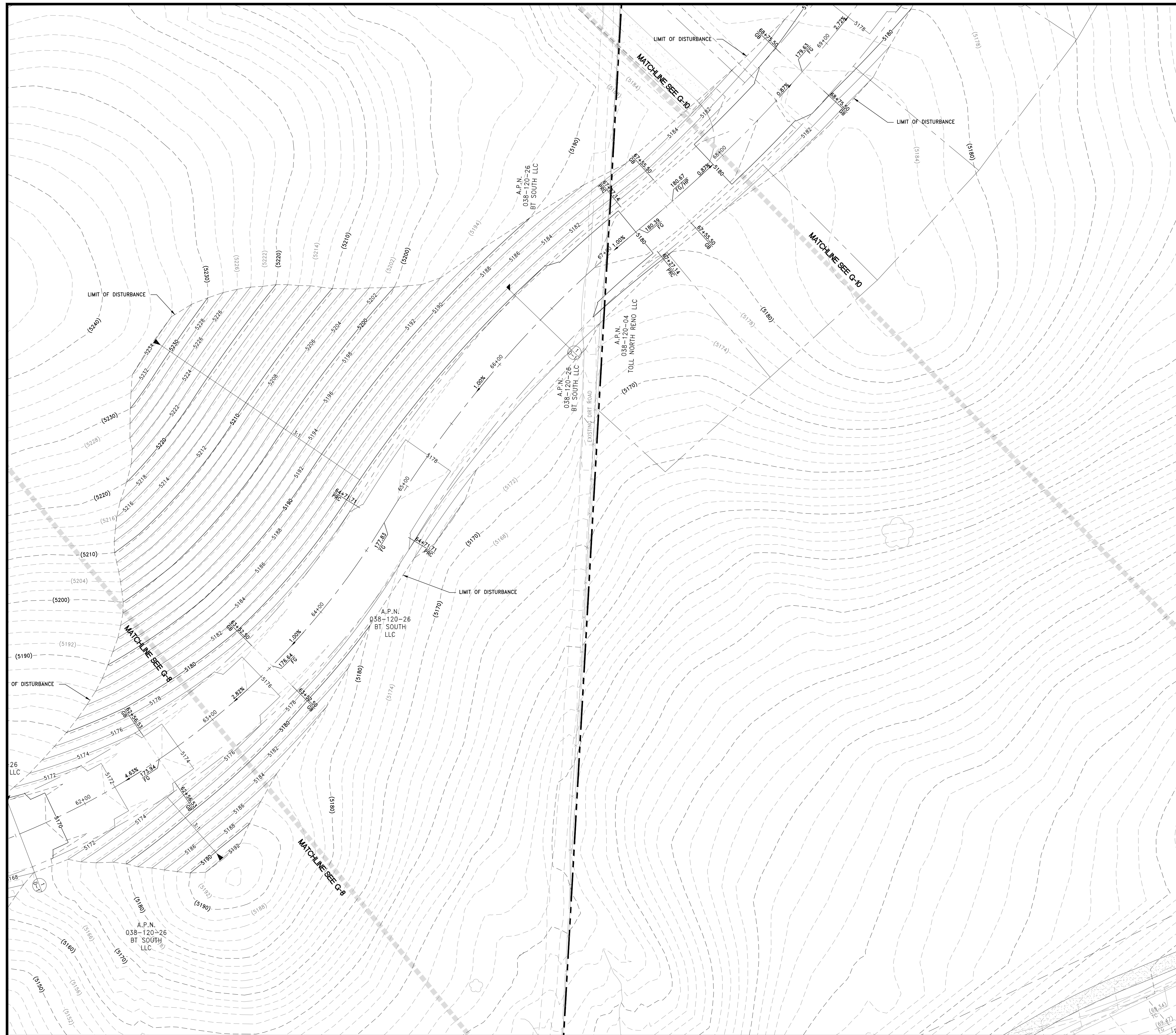
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OR
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B-28
5149.67
5149.0
5148.7



NOTES

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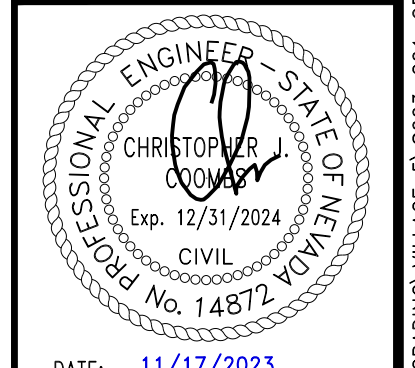
FLOOD ZONE NOTE:
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REV	DESCRIPTION	BY	DATE

TOLL BROTHERS
1045 HARRISON AVENUE, SUITE 200
RENO, NEVADA 89521
PH: 775.850.2417

RCI ENGINEERING
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MASS GRADING PLANS FOR
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GRADING PLAN (SHEET 9 OF 10)



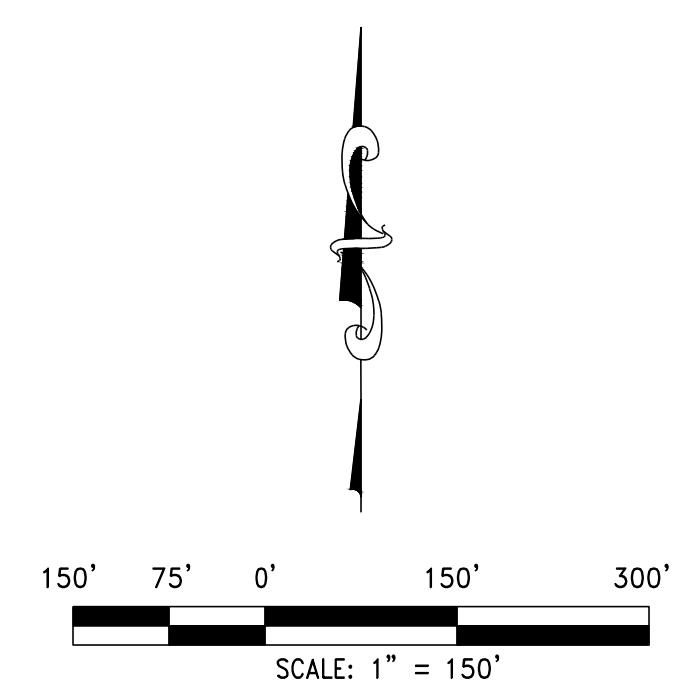
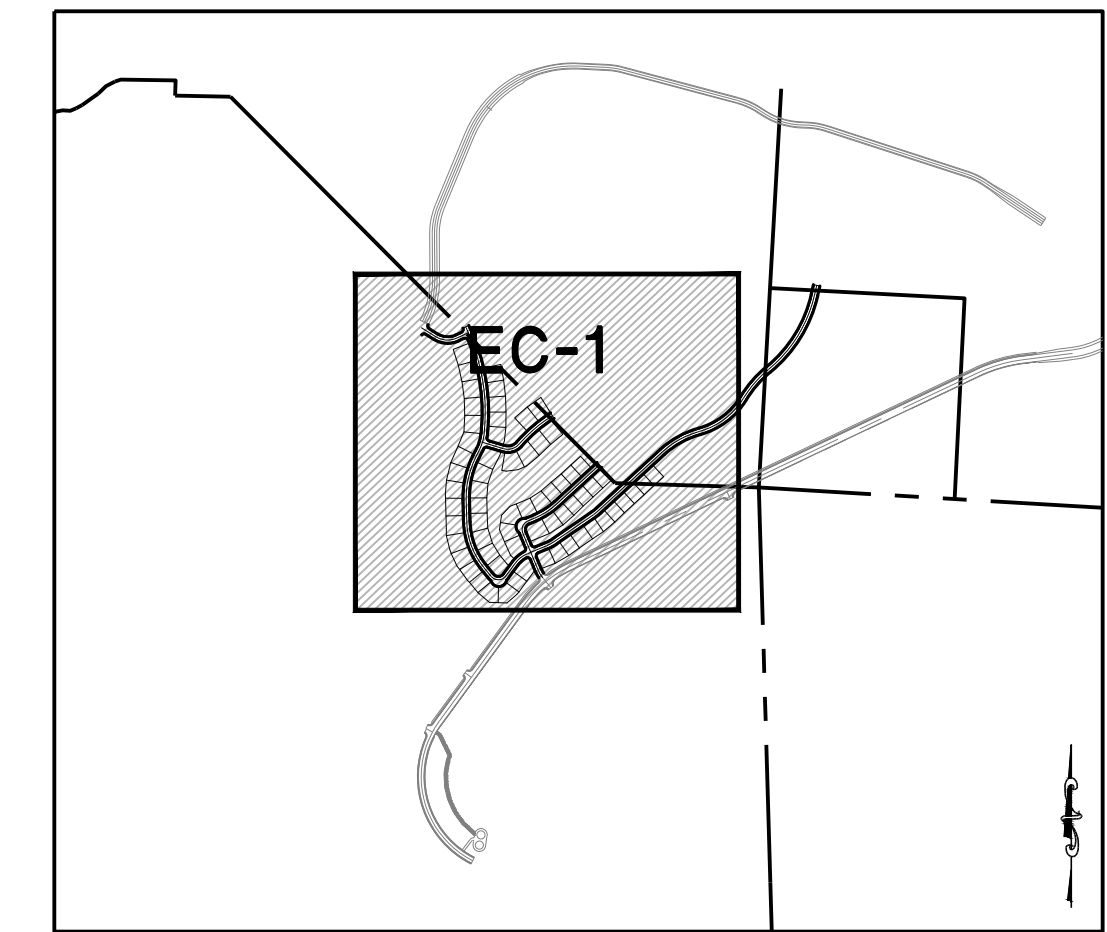
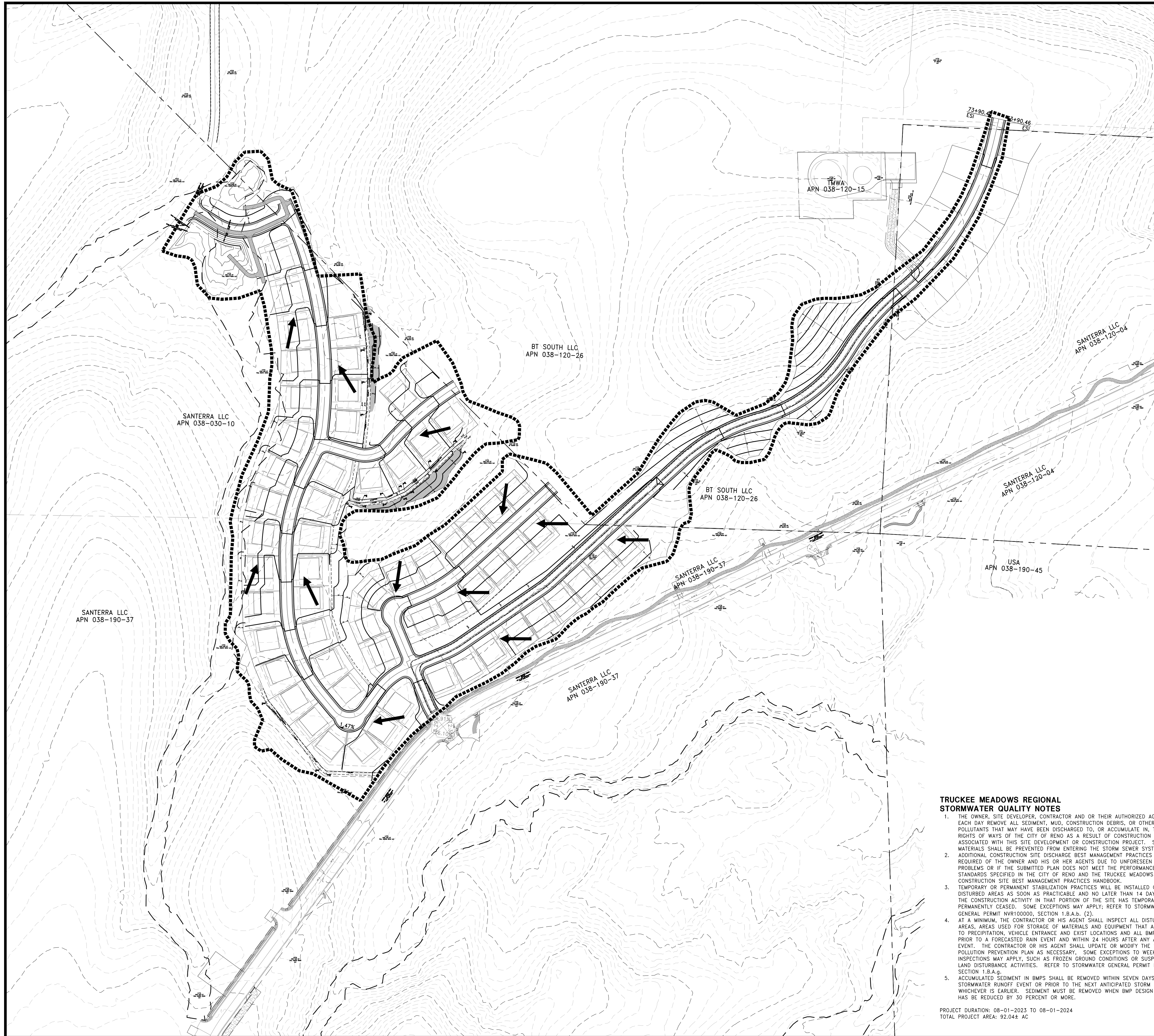
DATE: 11/17/2023

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LEGEND	
	WATTLE
	CUTBACK CURB
	SILT FENCE
	PROJECT LIMITS
	DIRECTION OF FLOW
	TRACKOUT PAD
	PROTECTED DRAINAGE INLET
	DISCHARGE POINT

TRUCKEE MEADOWS REGIONAL STORMWATER QUALITY 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 ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF RENO 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. 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 RENO AND THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.
2. 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 STORMWATER GENERAL PERMIT NV100000, SECTION 1.B.A.b. (2).
3. 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, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. 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 FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NV100000, SECTION 1.B.A.g.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 30 PERCENT OR MORE.

PROJECT DURATION: 08-01-2023 TO 08-01-2024
TOTAL PROJECT AREA: 92.04± AC

FLOOD ZONE NOTE:
THIS PROJECT LIES ENTIRELY WITHIN A FEMA UNSHADED ZONE X PER FIRM MAP PANEL 32031C0313G, EFFECTIVE MARCH 16, 2009

BENCHMARK
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AS TAKEN FROM NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) CONTROL MONUMENT 1332104, HAVING A PUBLISHED ELEVATION OF 5091.40 FEET. 1332104 IS DESCRIBED AS A 3 INCH NDOT BRASS CAP ON PIPE, STAMPED "T19N R18E S17/S16/S20/S21 1998, 0.1 FOOT ABOVE GROUND LEVEL IN A MOUND OF STONES. A 'U' CHANNEL POST AND SURVEY MARKER PADDOLE ARE 10 FEET EAST AS A WITNESS. A 4 STRAND BARBED WIRE FENCE IS 2 FEET EAST. MONUMENT IS OFF OF I-80 WEST BOUND AT THE BOOMTOWN EXIT. TRAVEL SOUTH ON GARSON ROAD TO FIRE STATION (SIERRA FIRE PROTECTION DIST) AT SOUTH END OF GARSON ROAD, HEAD WEST ON GATED DIRT ROAD ON WEST SIDE OF FIRE STATION ALONG NORTH SIDE OF STEAMBOAT DITCH FOR 0.5 MILE. MONUMENT IS 100' SOUTH.

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MASS GRADING PLANS FOR
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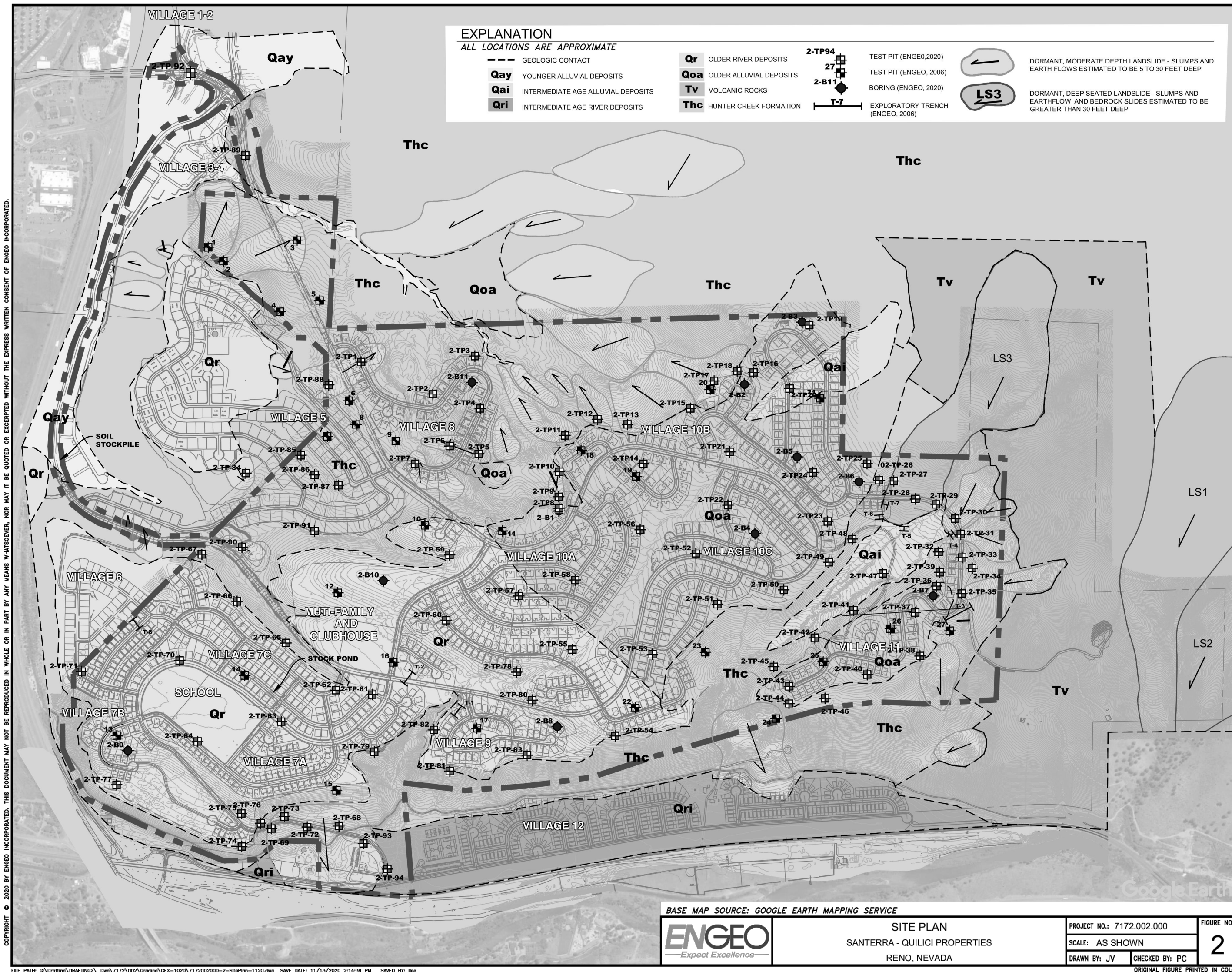
CITY OF RENO NEVADA

PROFESSIONAL ENGINEER STATE OF NEVADA
CHRISTOPHER J. QUILLICI
CIVIL
Exp. 12/31/2024
No. 14872

DATE: 11/17/2023

DRAWING
EC-1
SHT 15 OF 16

C:\3110_Toll\0052_Quillici_Ranch\CIVIL\PLNS\MASS GRADING\BILLAGE 5\3110_EC01_001_V5-MG.dwg midoz 11/17/23 2:27pm



ENGE0		TEST PIT LOG 2-TP84									
Santerra - Quillici Properties Reno, Nevada 7172.002.000		Logged By: Jennifer Knipper Logged Date: October 21, 2020 Equipment: Komatsu PC228US LC				Latitude: 39.507721° Longitude: -119.978845° Surface Elevation: 5,112'					
Depth (Feet)	Description	Depth of Test (Feet)	Moisture Content (%)	Fines Content (%)	Liquid Limit (%)	Plasticity Index (%)	Expansion Index (%)	Uncon Comp (Tsf) Field Approx.			
0 - 1	CLAYEY SAND WITH GRAVEL (SC), brown, dense, slightly moist, fine-grained sand, low plasticity fines, approximately 20% subrounded fine to coarse gravel and cobbles	1		41%	41	18		>4.5'			
1 - 2	INTERBEDDED SILTSTONE AND SANDSTONE, light yellowish brown, weak to strong, highly to completely weathered, fine to coarse grained [HUNTER CREEK FORMATION]										
2	Bottom of test pit at 2 feet due to practical refusal on strong sandstone. No groundwater encountered.										

ENGE0		TEST PIT LOG 2-TP85									
Santerra - Quillici Properties Reno, Nevada 7172.002.000		Logged By: Jennifer Knipper Logged Date: October 21, 2020 Equipment: Komatsu PC228US LC				Latitude: 39.506149° Longitude: -119.978180° Surface Elevation: 5,139'					
Depth (Feet)	Description	Depth of Test (Feet)	Moisture Content (%)	Fines Content (%)	Liquid Limit (%)	Plasticity Index (%)	Expansion Index (%)	Uncon Comp (Tsf) Field Approx.			
0 - 1	FAT CLAY WITH SAND (CH), brown, hard, slightly moist, high plasticity, approximately 15% fine-grained sand	1	22					>4.5'			
1 - 14	SILTSTONE, light gray, weak, highly weathered, diatomaceous, closely spaced fractures [HUNTER CREEK FORMATION]	2-5			123	53	0				
8	SANDSTONE INTERBEDS, weak, highly to completely weathered, thinly bedded										
10	Grades to medium strong, moderately weathered										
14	Bottom of test pit at 14 feet. No groundwater encountered.										

ENGE0		TEST PIT LOG 2-TP86									
Santerra - Quillici Properties Reno, Nevada 7172.002.000		Logged By: Jennifer Knipper Logged Date: October 21, 2020 Equipment: Komatsu PC228US LC				Latitude: 39.505784° Longitude: -119.978727° Surface Elevation: 5,126'					
Depth (Feet)	Description	Depth of Test (Feet)	Moisture Content (%)	Fines Content (%)	Liquid Limit (%)	Plasticity Index (%)	Expansion Index (%)	Uncon Comp (Tsf) Field Approx.			
0 - 1	SILTY GRAVEL WITH SAND (GM), brown, dense, slightly moist, fine to coarse gravel, medium plasticity fines, approximately 15% fine-to coarse-grained sand	1		33%	58	23		>4.5'			
1 - 7	SANDSTONE, light yellowish brown, weak, highly weathered, fine to coarse grained [HUNTER CREEK FORMATION]										
3	Grades to fine grained										
7 - 11	TUFFACEOUS SANDSTONE, light yellowish brown, weak, highly weathered, fine to coarse grained, some conglomerate										
11	Bottom of test pit at 11 feet. No groundwater encountered.										

ENGE0		TEST PIT LOG 2-TP87									
Santerra - Quillici Properties Reno, Nevada 7172.002.000		Logged By: Jennifer Knipper Logged Date: October 21, 2020 Equipment: Komatsu PC228US LC				Latitude: 39.505097° Longitude: -119.979225° Surface Elevation: 5,146'					
Depth (Feet)	Description	Depth of Test (Feet)	Moisture Content (%)	Fines Content (%)	Liquid Limit (%)	Plasticity Index (%)	Expansion Index (%)	Uncon Comp (Tsf) Field Approx.			
0 - 1/2	ELASTIC SILT WITH SAND (MH), brown, hard, slightly moist, high plasticity	1/2		74%	121	55					
1/2 - 13	SANDSTONE, light yellowish brown, weak to medium strong, highly weathered, fine grained, closely spaced fractures, some oxidation [HUNTER CREEK FORMATION]										
13	Bottom of test pit at 13 feet. No groundwater encountered.										

ENGE0		TEST PIT LOG 2-TP90									
Santerra - Quillici Properties Reno, Nevada 7172.002.000		Logged By: Jennifer Knipper Logged Date: October 22, 2020 Equipment: Komatsu PC228US LC				Latitude: 39.507798° Longitude: -119.981530° Surface Elevation: 5,037'					
Depth (Feet)	Description	Depth of Test (Feet)	Moisture Content (%)	Fines Content (%)	Liquid Limit (%)	Plasticity Index (%)	Expansion Index (%)	Uncon Comp (Tsf) Field Approx.			
0 - 1	FAT CLAY (CH), brown, hard, slightly moist, high plasticity, trace subrounded fine to coarse gravel and cobble [LANDSLIDE DEBRIS]	1						>4.5'			
1 - 3	SILTY SAND (SM), light yellowish brown, dense, moist, fine-grained sand, low to medium plasticity fines, trace subrounded cobbles [LANDSLIDE DEBRIS]	3	26	38%			36				
3 - 12	SILTY SAND (SM), light yellowish brown, dense, moist, fine-to coarse-grained sand, low plasticity fines, trace subangular to subrounded gravel and cobbles [LANDSLIDE DEBRIS]	6	33								
10	Grades to cemented, approximately 60% sand	10	15								
12	Bottom of test pit at 17 feet due to practical refusal on boulders. No groundwater encountered.										

ENGE0		TEST PIT LOG 2-TP91									
Santerra - Quillici Properties Reno, Nevada 7172.002.000		Logged By: Jennifer Knipper Logged Date: October 22, 2020 Equipment: Komatsu PC228US LC				Latitude: 39.505747° Longitude: -119.980872° Surface Elevation: 5,077'					
Depth (Feet)	Description	Depth of Test (Feet)	Moisture Content (%)	Fines Content (%)	Liquid Limit (%)	Plasticity Index (%)	Expansion Index (%)	Uncon Comp (Tsf) Field Approx.			
0 - 1	FAT CLAY WITH GRAVEL (CH), brown, hard, slightly moist, high plasticity, fine to coarse gravel and cobble [COLLUVIUM]	1						>4.5'			
1 - 7	SILTY SAND (SM), light yellowish brown, dense, slightly moist, fine-to coarse-grained sand, low plasticity fines, approximately 10% fine to coarse gravel and cobbles [QUATERNARY OLDER RIVER DEPOSITS]										
4	Grades to SILTY SAND WITH GRAVEL (SM), moist, fine-to coarse-grained sand, low plasticity fines, approximately 20% subangular fine to coarse gravel and cobbles, cemented										
7	Bottom of test pit at 7 feet due to practical refusal. No groundwater encountered.										

DATE: November 17, 2023
 HORIZ. SCALE: N/A
 VERT. SCALE: N/A
 DRAWN BY: SN
 DESIGNED BY: MD
 CHECKED BY: CJC
 APPROVED BY: CJC
 PROJECT #: 3110.0063

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DRAWING
B-1
 SHT 16 OF 16

