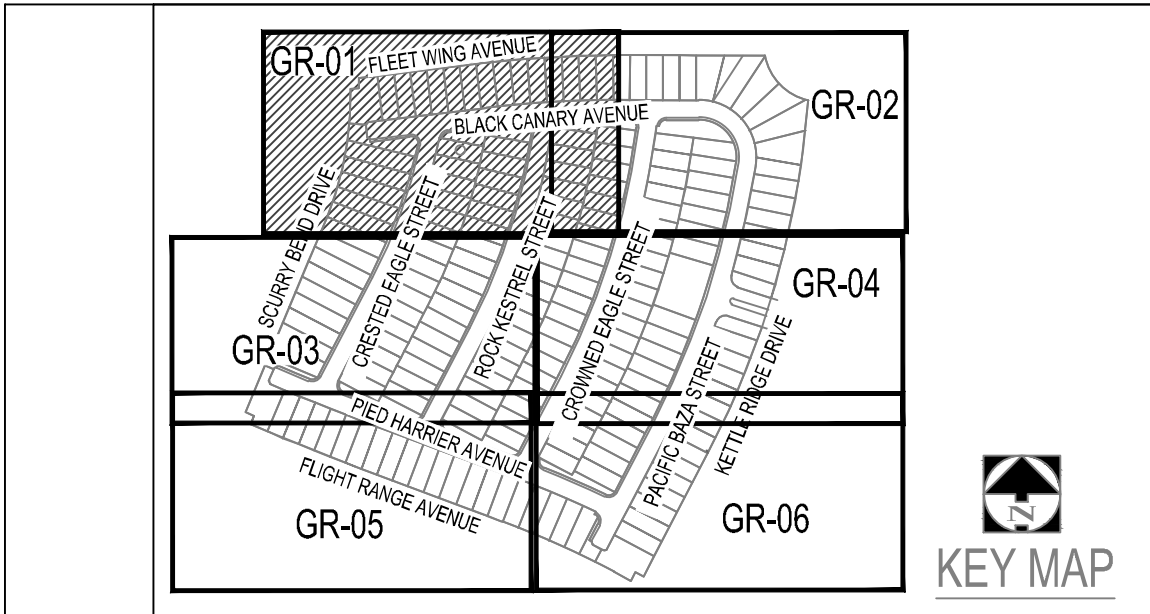


GRADING CONSTRUCTION NOTES

- CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216.
- CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3.S1.
- CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
- CONSTRUCT 5' WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 5' WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
- LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02.
- CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02.
- CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02.
- CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
- CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02.
- CONSTRUCT 4" THICK CONCRETE PAVEMENT.
- CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL.
- INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2.4"-1.6") PER DETAIL FF ON SHEET DT-02.

STORM DRAIN CONSTRUCTION NOTES

- INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
- INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & NO. 421 WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS, SIZE AND LENGTH PER PLAN.
- INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

SITE VISIBILITY ZONE RESTRICTION NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOOD ZONE INFORMATION

THIS PARCEL IS NOT IN A 100-YEAR FLOOD ZONE. THIS PROPERTY IS IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 32003C2150E, EFFECTIVE DATE 09/27/2002. ZONE "X" IS 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

GRADING PLAN CERTIFICATION:

"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY, ON FILE AT THE CITY OF LAS VEGAS, NEVADA, FOR THIS PROJECT NO. DS5553."

GLENN BLAKE, P.E. NO. 024065 DATE 09/07/2022

Glenn Blake
Registered Professional Engineer
State of Nevada
No. 024065
Expires 12/31/2027

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RENTAL AND SALES
SYSTEM OF TRANSPORTATION

GARAGE DROP AND HINGELESS GARAGE DRIVEWAY LEGEND
REFER TO DETAIL Z ON SHEET DT-02 FOR DROP GARAGE DETAILS
★ - TYPE I GARAGE DROP
★★ - TYPE II GARAGE DROP
△ - NO HINGE

GEOTECHNICAL
ALL GRADING SHALL BE PER THE GEOTECHNICAL REPORT PREPARED BY SOUTHWEST GEOTECHNICAL, DATED OCTOBER 15, 2021 PROJECT NO. 210925.

GRADING GENERAL NOTES
1. CONTRACTOR TO INSTALL ALL DRIVEWAYS PER CCAUSD #222 & 223
2. FINAL GRADES NEXT TO STRUCTURE SHALL BE IN CONFORMANCE WITH IBC 2018, SECTION 2304.11.2.2.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
4. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
5. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
6. SEE SHEET DT-01 FOR STREET SECTIONS AND DETAILS.
7. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
8. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVED BY THE BUILDING DEPARTMENT.
9. CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER / OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
10. PRIVATE STREET LIGHTS & APPURTENANCE SHALL BE PERMITTED AND INSPECTED BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.

GRADING ACREAGE/QUANTITY	
ONSITE PRIVATE (NET)	24.1 ACRES
GROSS ACREAGE	24.1 ACRES
GRADING ONSITE	
249,600 CY CUT	
48,394 CY FILL	
200,666 CY NET UNADJUSTED FILL	
TOTAL	
AREA DISTURBED	24.1 ACRES
NET IMPORT/EXPORT	200,666 CY

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "SLV99265S", BEING A BLM BRASS CAP AT MAINWALL BLVD. & ANN ROAD, (CLV TAG ATTACHED)

ELEVATION: 2945.16 (FEET)
897.686 (METERS)

CITY OF LAS VEGAS VERTICAL CONTROL RE-OBSERVED 2005-2007 BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

DISCLAIMER NOTE
1. 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 AND OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED UP OF CURB. PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTE
POST-CONSTRUCTION BMPs (PCBMPs) CONTROL MEASURES NOTED ON THE GRADING PLANS ARE MANDATORY PERMANENT REGULATORY STORMWATER POLLUTION CONTROLS. THESE PCBMPs MUST BE INSTALLED PER THE APPROVED PLANS AND MUST BE PERMANENTLY MAINTAINED.

PRIVATE STREET NOTE
PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A.
ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

BASIS OF BEARINGS
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAVD 83), SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS:
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS ZONE
PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHINGS 656,166,666.7 SFT (200,000,000 m)
FALSE EASTINGS: 328,083,333.3 SFT (100,000,000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

STORM WATER MANAGEMENT NOTES

- STANDARD NOTE NO. 1: THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- STANDARD NOTE NO. 2: ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE LVMC 14.18.130 AND CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT'S HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL SECTION 1500 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- STANDARD NOTE NO. 3: TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
- STANDARD NOTE NO. 4: AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
- STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

APPROVAL	BY	REVISION
NO.	DATE	



The WLB Group
Engineering & Construction
3663 EAST SUNSET ROAD, SUITE 204
LAS VEGAS, NV 89120 (702) 458-2551

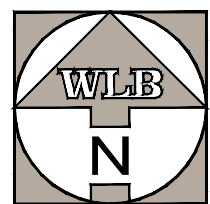
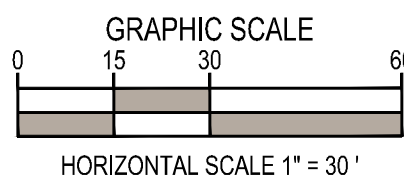
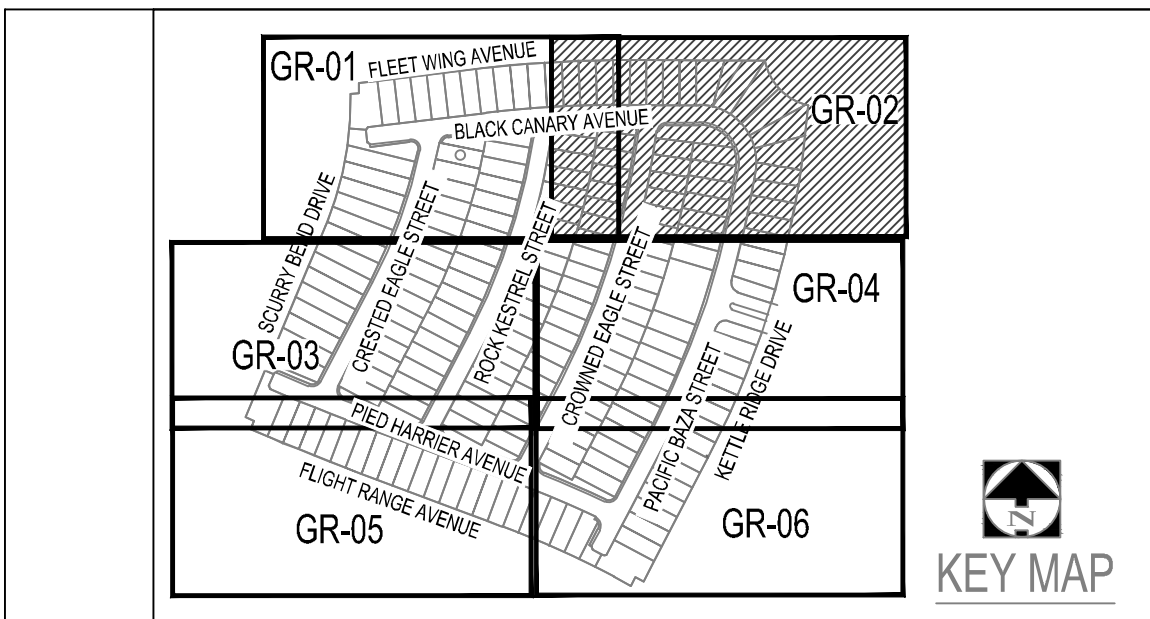
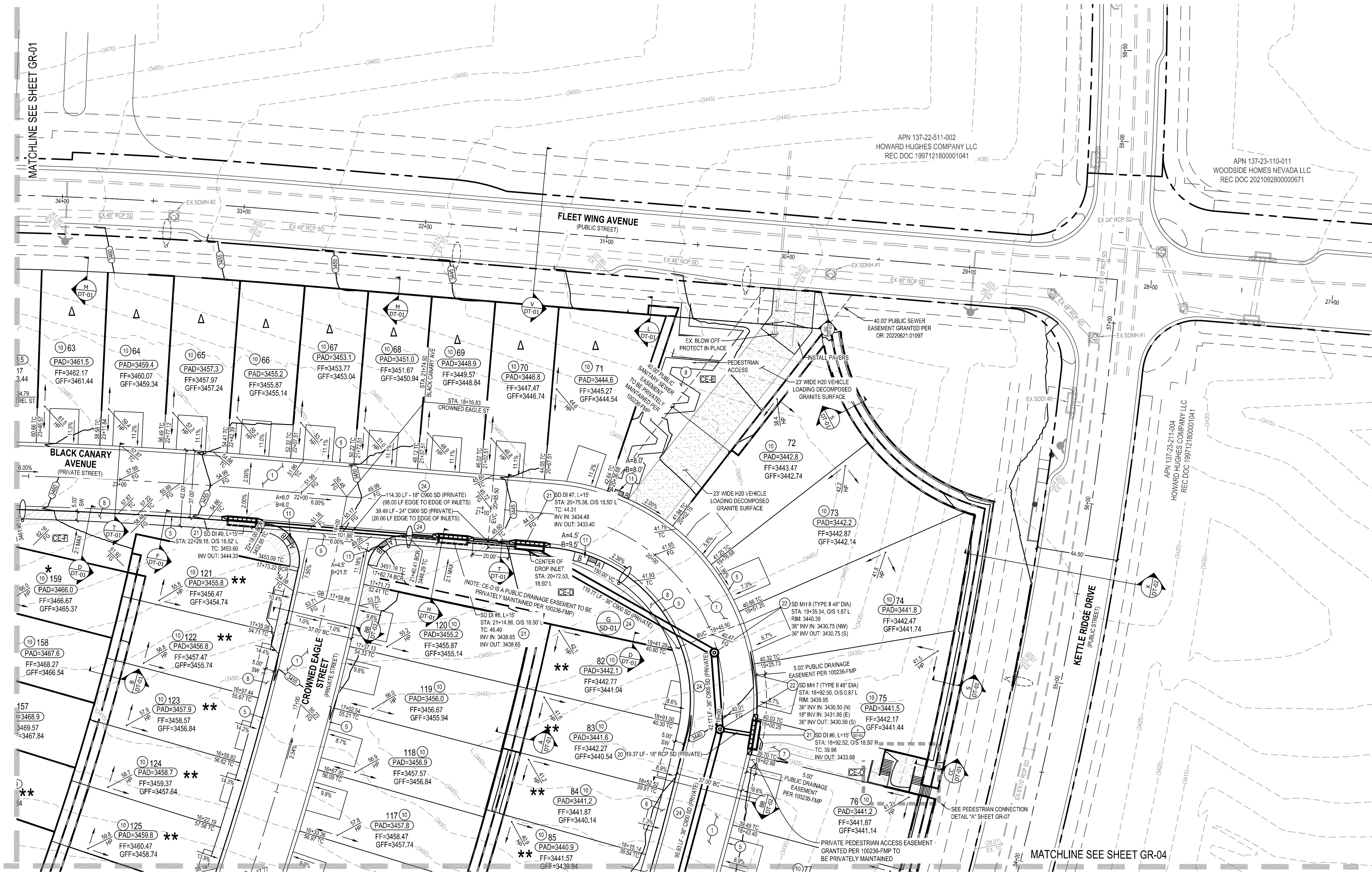
GRADING PLAN
(SHEET 1 OF 7)

SHEET TITLE

CITY OF LAS VEGAS

NIGHTHAWK

PROJECT
PROJECT NO. 421049-A-001
DATE 09/07/2022
DRAWN BY MG
DESIGNED BY GRB
CHECKED BY GWB
SHEET GR-01
SHEET 10 OF 56
DRAWING L22-00473
CLV DWG # 107Y52222



GRADING CONSTRUCTION NOTES

- CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
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- CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3.S1.
- CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
- CONSTRUCT 5" WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 5" WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
- LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
- CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
- CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
- CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
- CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
- CONSTRUCT DRAINAGE SLUICE PER DETAIL 19, SHEET DT-02
- CONSTRUCT 4" THICK CONCRETE PAVEMENT
- CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
- INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2.4'-1.6") PER DETAIL FF ON SHEET DT-02

STORM DRAIN CONSTRUCTION NOTES

- INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
- INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & NO. 421 WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS, SIZE AND LENGTH PER PLAN.
- INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

SITE VISIBILITY ZONE RESTRICTION NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOOD ZONE INFORMATION

THIS PARCEL IS NOT IN A 100-YEAR FLOOD ZONE. THIS PROPERTY IS IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 32003C2150E, EFFECTIVE DATE 09/27/2002. ZONE "X" IS 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

GRADING PLAN CERTIFICATION:

"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY, ON FILE AT THE CITY OF LAS VEGAS, NEVADA, FOR THIS PROJECT NO. DS5535."

GLENN BLAKE, P.E. NO. 024065

09/07/2022



GARAGE DROP AND HINGELESS GARAGE DRIVEWAY LEGEND

REFER TO DETAIL Z ON SHEET DT-02 FOR DROP GARAGE DETAILS
★ - TYPE I GARAGE DROP
★★ - TYPE II GARAGE DROP
△ - NO HINGE

GEOTECHNICAL

ALL GRADING SHALL BE PER THE GEOTECHNICAL REPORT PREPARED BY SOUTHWEST GEOTECHNICAL, DATED OCTOBER 15, 2021 PROJECT NO. 210925.

GRADING GENERAL NOTES

- CONTRACTOR TO INSTALL ALL DRIVEWAYS PER CCAUSD #222 & 223
- FINAL GRADES NEXT TO STRUCTURE SHALL BE IN CONFORMANCE WITH IBC 2018, SECTION 2304.11.2.2.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
- ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
- MAXIMUM MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
- SEE SHEET DT-01 FOR STREET SECTIONS AND DETAILS.
- ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
- CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVED BY THE BUILDING DEPARTMENT.
- CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER / OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
- PRIVATE STREET LIGHTS & APPURTENANCE SHALL BE PERMITTED AND INSPECTED BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.

GRADING ACREAGE/QUANTITY

ONSITE
PRIVATE (NET) 24.1 ACRES
GROSS ACREAGE 24.1 ACRES

GRADING ON SITE

249,600 CY CUT
48,394 CY FILL
200,666 CY NET UNADJUSTED FILL

TOTAL
AREA DISTURBED 24.1 ACRES
NET IMPORT/EXPORT 200,666 CY

DISCLAIMER NOTE

- 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 AND OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
- FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED UP OF CURB. PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE, IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "SLV926SES", BEING A BLM BRASS CAP AT MAINWALL BLVD. & ANN ROAD, (CLV TAG ATTACHED)

ELEVATION: 2945.16 (FEET)
897.686 (METERS)

CITY OF LAS VEGAS VERTICAL CONTROL RE-OBSERVED 2005-2007 BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

NOTE

POST-CONSTRUCTION BMPs (PCBMPs) CONTROL MEASURES NOTED ON THE GRADING PLANS ARE MANDATORY PERMANENT REGULATORY STORMWATER POLLUTION CONTROLS. THESE PCBMPs MUST BE INSTALLED PER THE APPROVED PLANS AND MUST BE PERMANENTLY MAINTAINED.

PRIVATE STREET NOTE

PER "100236-FMP," ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A.
ALL EASEMENTS, PER "100236-FMP," WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83), SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0

MAPPING PROJECTION PARAMETERS:
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

ZONE: LAS VEGAS ZONE

PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL: (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHINGS 656,166,666.7 SFT (200,000,000 m)
FALSE EASTINGS: 328,083,333.3 SFT (100,000,000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

STORM WATER MANAGEMENT NOTES

- STANDARD NOTE NO. 1: THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- STANDARD NOTE NO. 2: ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE LVMC 14.18.130 AND CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT'S HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL SECTION 1500 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- STANDARD NOTE NO. 3: TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.5.
- STANDARD NOTE NO. 4: AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.12.
- STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

NO.	DATE	REVISION	BY	APPROVAL



WLB
The WLB Group Inc.
Engineering & Construction
10000 S. Sunset Road, Suite 204
Las Vegas, NV 89120
(702) 458-2551

GRADING PLAN
(SHEET 2 OF 7)

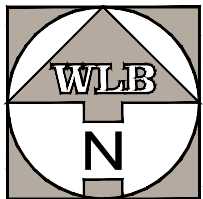
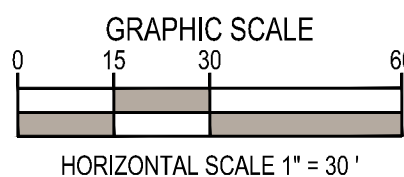
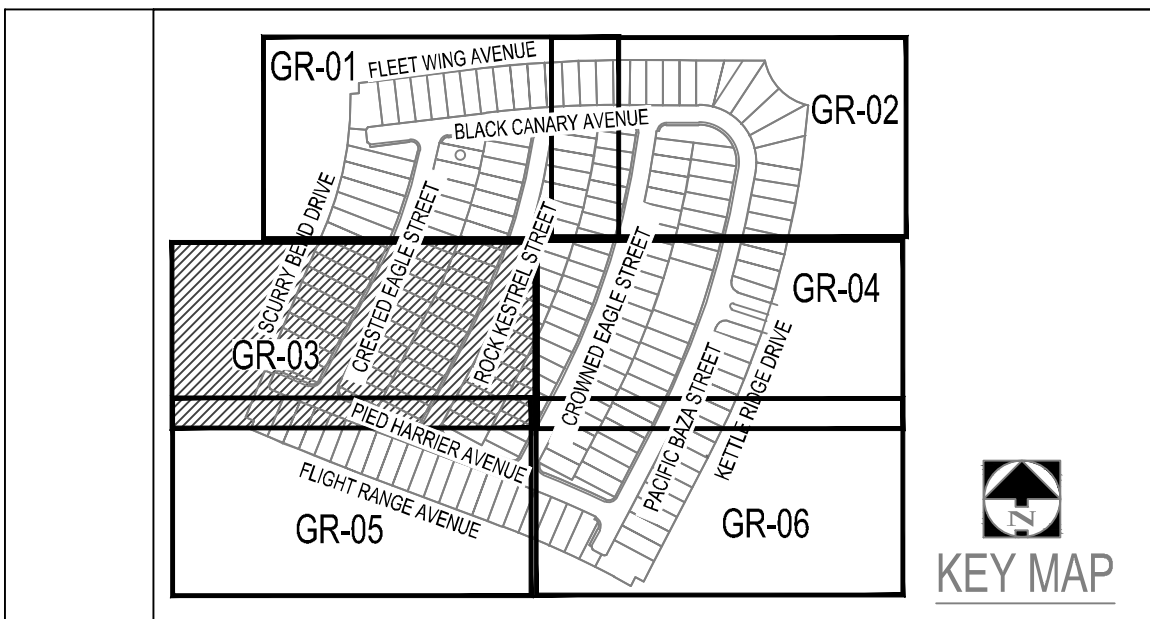
SHEET TITLE

CITY OF LAS VEGAS

NIGHTHAWK

PROJECT
PROJECT NO. 421049-A-001
DATE 09/07/2022
DRAWN BY MG
DESIGNED BY GRB
CHECKED BY GWB

SHEET
GR-02
SHEET 11 OF 56
DRAWING
L22-00473
CLV DWG # 10752222



1	CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
2	CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
3	CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE I PER GEOTECHNICAL REPORT NO. 210925.
4	CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216
5	CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3,S1.
6	CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
7	CONSTRUCT 5' WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
8	CONSTRUCT 5' WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
9	CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
10	LOT DRAINAGE. SEE DETAIL A4, SHEET DT-02
11	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN
12	CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
13	CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
14	CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
15	CONSTRUCT SIDEWALK UNDERDRAIN PER PER CCAUSD NO. 236.
16	CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
17	CONSTRUCT 4" THICK CONCRETE PAVEMENT
18	CONSTRUCT 8' WIDE CONCRETE DRAINAGE CHANNEL
19	INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2'-4", 1-6") PER DETAIL FF ON SHEET DT-02.

20	INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
21	INSTALL 18" DIA CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & 18" DIA. 2" WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
22	INSTALL STORM DRAIN MANHOLE PER UDACS 405.4, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
23	INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS, SIZE AND LENGTH PER PLAN.
24	INSTALL S/CV C300 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

THIS PARCEL IS NOT IN A 100-YEAR FLOOD ZONE. THIS PROPERTY IS IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 32003C2150E, EFFECTIVE DATE 09/27/2002. ZONE "X" IS 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY, ON FILE AT THE CITY OF LAS VEGAS, NEVADA, FOR THIS PROJECT NO. DS5535."


GLENN BLAKE, P.E. NO. 024065

09/07/2022
DATE

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

Call

811

OR

(800) 642-2444

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD
WORK



CALL 1-702-227-2929

FAST

Call before you dig

UnderGround

1-702-432-5300

FREeway and ARTERIAL
SYSTEM OF TRANSPORTATION

GEOTECHNICAL

ALL GRADING SHALL BE PER THE GEOTECHNICAL REPORT PREPARED BY SOUTHWEST GEOTECHNICAL, DATED OCTOBER 15, 2021 PROJECT NO. 210925.

1. CONTRACTOR TO INSTALL ALL DRIVEWAYS PER CALSDUD #222 & 223
2. FINAL GRADES NEXT TO STRUCTURE SHALL BE IN CONFORMANCE WITH IBC 2018, SECTION 2304.11.2.2.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
4. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
5. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
6. SEE SHEET DT-01 FOR STREET SECTIONS AND DETAILS.
7. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
8. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVED BY THE BUILDING DEPARTMENT.
9. CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER / OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO EXISTING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
10. PRIVATE STREETLIGHTS & APPURTENANCE SHALL BE PERMITTED AND INSPECTED BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/ WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

<u>GRADING ACREAGE/QUANTITY</u>	
<u>ONSITE</u>	
PRIVATE (NET)	24.1 ACRES
GROSS ACREAGE	24.1 ACRES
 <u>GRADING ONSITE</u>	
249,600 CY CUT	
48,394 CY FILL	
200,666 CY NET	
UNADJUSTED FILL	
 <u>TOTAL</u>	
AREA DISTURBED	24.1 ACRES
NET IMPORT/EXPORT	200,666 CY

CITY OF LAS VEGAS VERTICAL
CONTROL POINT "5LV9926SES", BEING
A BLM BRASS CAP AT MAINWAL BLVD.
& ANN ROAD. (CLV TAG ATTACHED)

ELEVATION: 2945.16 (FEET)
 897.686 (METERS)

CITY OF LAS VEGAS VERTICAL
CONTROL RE-OBSERVED 2005-2007
BASED ON NORTH AMERICAN
VERTICAL DATUM OF 1988 (NAVD'88).

1. 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 AND SURFACE UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPE FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED JAIL OF CURB. PRIOR TO SUPERGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

POST-CONSTRUCTION BMPs (PCBMPs)/ CONTROL MEASURES NOTED ON THE GRADING PLANS ARE MANDATORY PERMANENT REGULATORY STORMWATER POLLUTION CONTROLS. THESE PCBMPs MUST BE INSTALLED PER THE APPROVED PLANS AND MUST BE PERMANENTLY MAINTAINED.

PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A.

ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83); SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS:
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM
ZONE: LAS VEGAS ZONE

PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHING 656,166.6667 SFT (200,000.000 m)
FALSE EASTING: 328,083.3333 SFT (100,000.000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

1. STANDARD NOTE NO. 1: THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. STANDARD NOTE NO. 2: ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE LVMC 14.18.130 AND CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT'S HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL SECTION 1500 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. STANDARD NOTE NO. 3: TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. STANDARD NOTE NO. 4: AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

[illegible]

9/7/2022



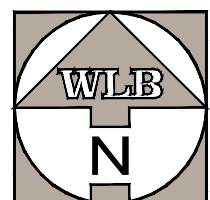
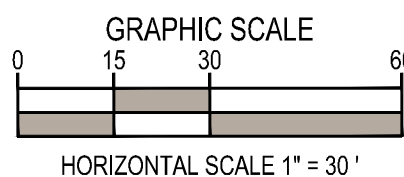
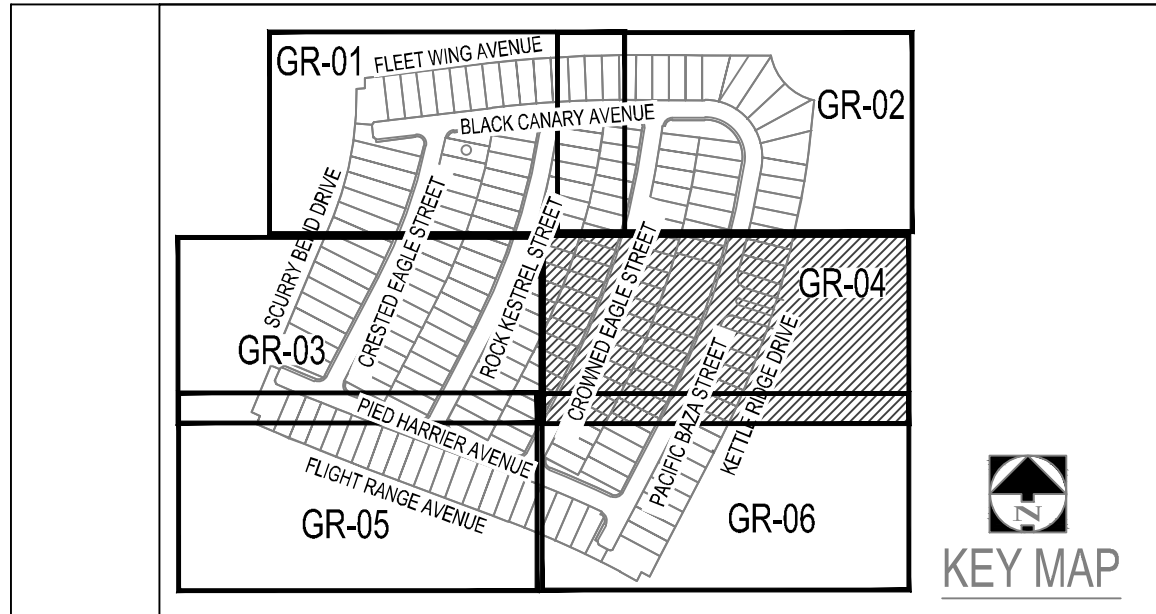
GRADING PLAN
(SHEET 3 OF 7)

SHEET TITLE

CITY OF LAS VEGAS

NIGHTHAWK

PROJECT	PROJECT NO.	421049-A-001
	DATE	09/07/2022
	DRAWN BY	MG
	DESIGNED BY	GRB
	CHECKED BY	GWB
SHEET		
GR-03		
SHEET	12	OF 56
DRAWING		
L22-00473		
CLV DWG # 107Y52222		



GRADING CONSTRUCTION NOTES

- CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216
- CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3.S1.
- CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
- CONSTRUCT 5' WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 5' WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
- LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
- CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE 1. A&B DIMENSIONS PER PLAN.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
- CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
- CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
- CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
- CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
- CONSTRUCT 4" THICK CONCRETE PAVEMENT
- CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
- INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2.4'-1.6") PER DETAIL FF ON SHEET DT-02

STORM DRAIN CONSTRUCTION NOTES

- INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
- INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & NO. 421 WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS, SIZE AND LENGTH PER PLAN.
- INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

SITE VISIBILITY ZONE RESTRICTION NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOOD ZONE INFORMATION

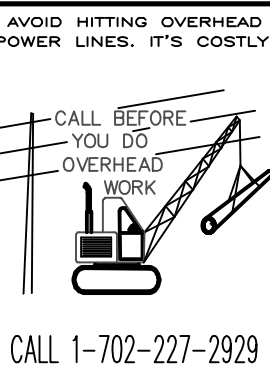
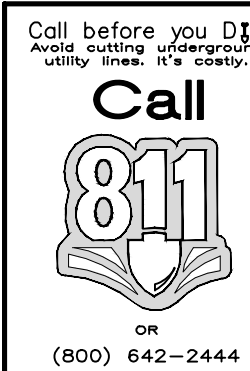
THIS PARCEL IS NOT IN A 100-YEAR FLOOD ZONE. THIS PROPERTY IS IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 32003C2150E, EFFECTIVE DATE 09/27/2002. ZONE "X" IS 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

GRADING PLAN CERTIFICATION:

"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY, ON FILE AT THE CITY OF LAS VEGAS, NEVADA, FOR THIS PROJECT NO. DS5553."

GLENN BLAKE, P.E. NO. 024065

09/07/2022



GARAGE DROP AND HINGELESS GARAGE DRIVEWAY LEGEND

REFER TO DETAIL Z ON SHEET DT-02 FOR DROP GARAGE DETAILS
★ - TYPE I GARAGE DROP
★★ - TYPE II GARAGE DROP
△ - NO HINGE

GEOTECHNICAL

ALL GRADING SHALL BE PER THE GEOTECHNICAL REPORT PREPARED BY SOUTHWEST GEOTECHNICAL, DATED OCTOBER 15, 2021 PROJECT NO. 210925.

GRADING GENERAL NOTES

- CONTRACTOR TO INSTALL ALL DRIVEWAYS PER CCAUSD #222 & 223
- FINAL GRADES NEXT TO STRUCTURE SHALL BE IN CONFORMANCE WITH IBC 2018, SECTION 2304.11.2.2.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
- ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
- MAXIMUM MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
- SEE SHEET DT-01 FOR STREET SECTIONS AND DETAILS.
- ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
- CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVED BY THE BUILDING DEPARTMENT.
- CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER / OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
- PRIVATE STREET LIGHTS & APPURTENANCE SHALL BE PERMITTED AND INSPECTED BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.

GRADING ACREAGE/QUANTITY

ONSITE PRIVATE (NET) 24.1 ACRES
GROSS ACREAGE 24.1 ACRES

GRADING ONSITE 249,600 CY CUT
48,394 CY FILL
200,666 CY NET UNADJUSTED FILL

TOTAL AREA DISTURBED 24.1 ACRES
NET IMPORT/EXPORT 200,666 CY

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "SLV9926SES", BEING A BLM BRASS CAP AT MAINVAL BLVD. & ANN ROAD, (CLV TAG ATTACHED)
ELEVATION: 2945.16 (FEET)
897.886 (METERS)
CITY OF LAS VEGAS VERTICAL CONTROL RE-OBSERVED 2005-2007 BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

DISCLAIMER NOTE

- 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 AND OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
- FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED CUT OF CURB. PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTE

POST-CONSTRUCTION BMPs (PCBMPs) CONTROL MEASURES NOTED ON THE GRADING PLANS ARE MANDATORY PERMANENT REGULATORY STORMWATER POLLUTION CONTROLS. THESE PCBMPs MUST BE INSTALLED PER THE APPROVED PLANS AND MUST BE PERMANENTLY MAINTAINED.

PRIVATE STREET NOTE

PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A.
ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83), SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION

DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0

MAPPING PROJECTION PARAMETERS:

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

ZONE: LAS VEGAS ZONE

PROJECTION TYPE: TRANSVERSE MERCATOR

STANDARD PARALLEL: (AND LATITUDE OF GRID ORIGIN): 36°15'00" N

LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W

LINEAR UNIT: US SURVEY FOOT (SFT)

FALSE NORTHING: 656,166,667 SFT (200,000,000 m)

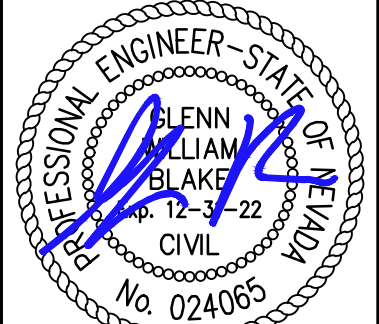
FALSE EASTING: 328,083,333 SFT (100,000,000 m)

SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

STORM WATER MANAGEMENT NOTES

- STANDARD NOTE NO. 1: THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- STANDARD NOTE NO. 2: ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE LVMC 14.18.130 AND CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT'S HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL SECTION 1500 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- STANDARD NOTE NO. 3: TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
- STANDARD NOTE NO. 4: AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
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NO.	DATE	REVISION	BY	APPROVAL



GRADING PLAN (SHEET 4 OF 7)

SHEET TITLE

CITY OF LAS VEGAS

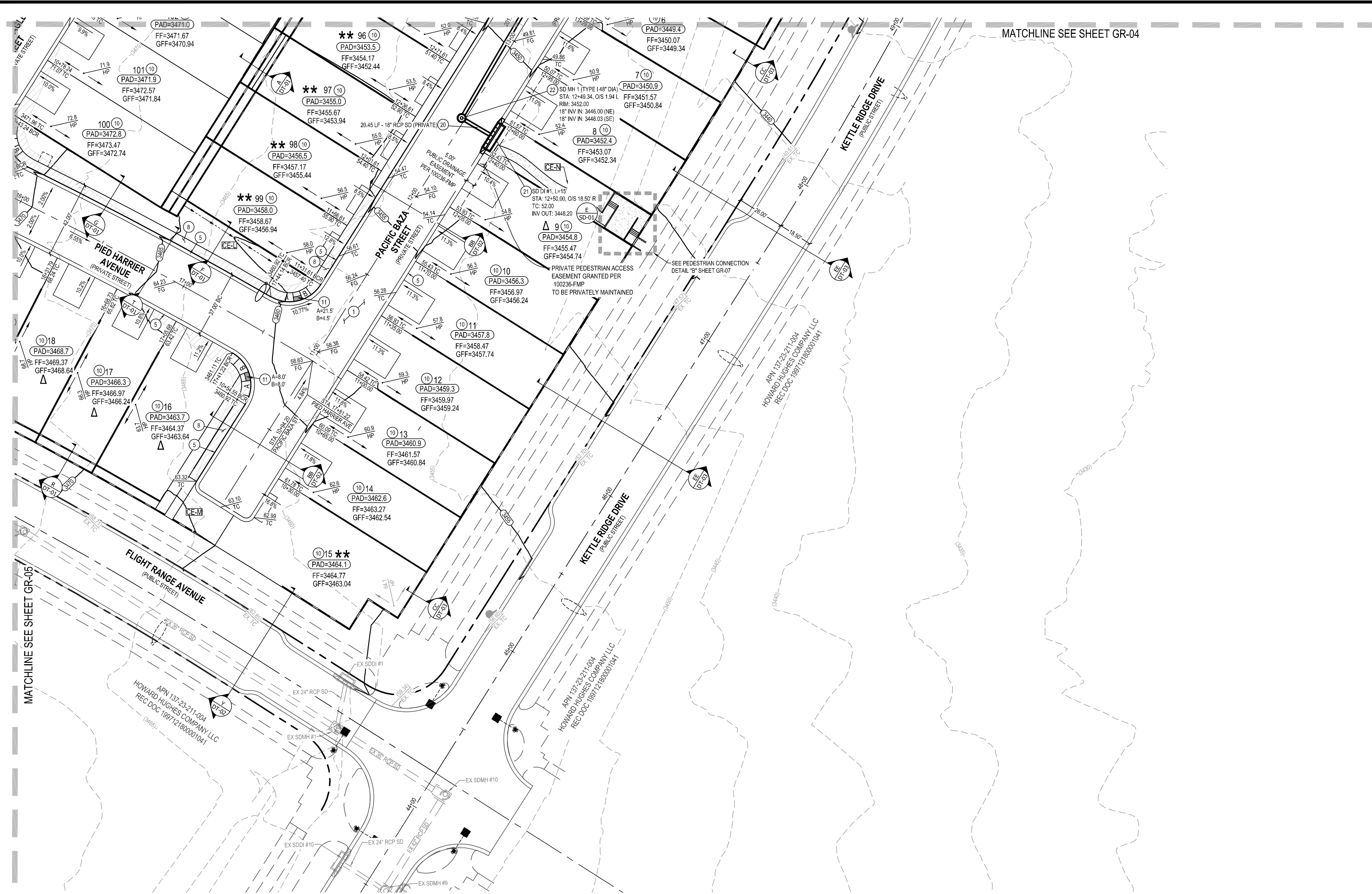
NIGHTHAWK

PROJECT

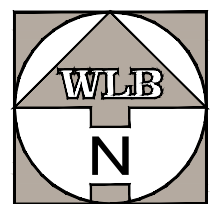
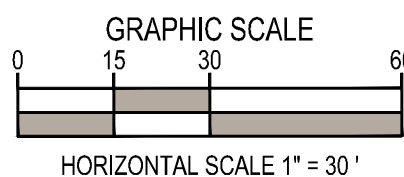
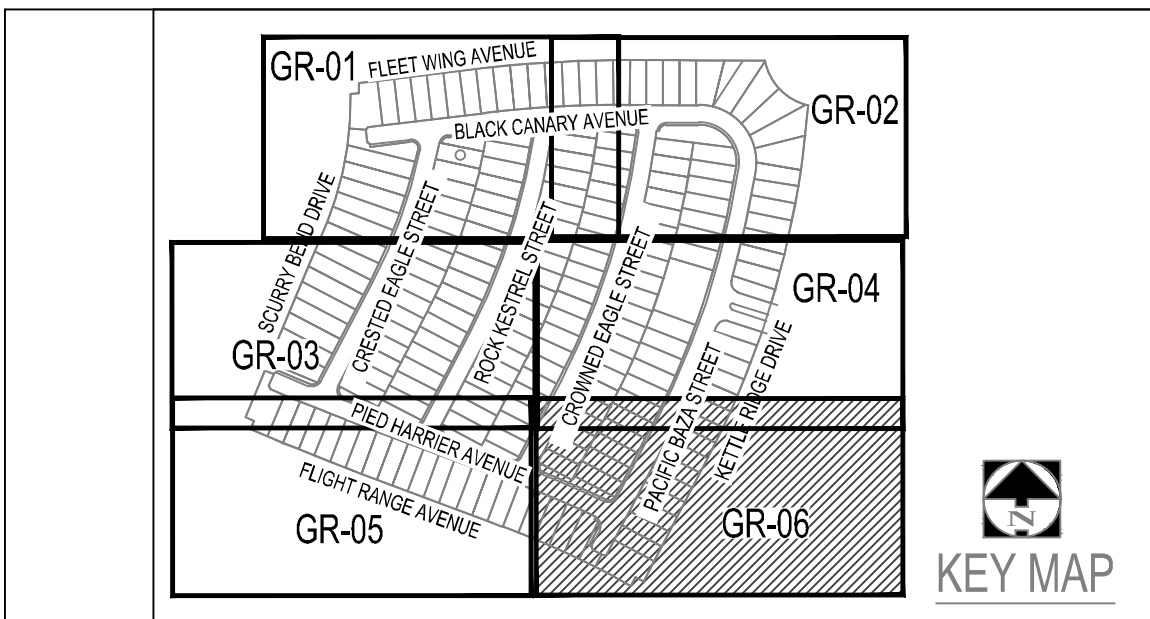
PROJECT NO. 421049-A-001
DATE 09/07/2022
DRAWN BY MG
DESIGNED BY GRB
CHECKED BY GWB

SHEET GR-04
SHEET 13 OF 56

DRAWING 122-00473
CLV DWG # 107Y52222



MATCHLINE SEE SHEET GR-04



GRADING CONSTRUCTION NOTES

- CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
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- CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3.S1.
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- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
- LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
- CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
- CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
- CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
- CONSTRUCT SIDEWALK UNDERDRAIN PER PER CCAUSD NO. 236.
- CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
- CONSTRUCT 4" THICK CONCRETE PAVEMENT
- CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
- INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2'-4", 1'-6") PER DETAIL FF ON SHEET DT-02

STORM DRAIN CONSTRUCTION NOTES

- INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
- INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & NO. 421 WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS. SIZE AND LENGTH PER PLAN.
- INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

SITE VISIBILITY ZONE RESTRICTION NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOOD ZONE INFORMATION

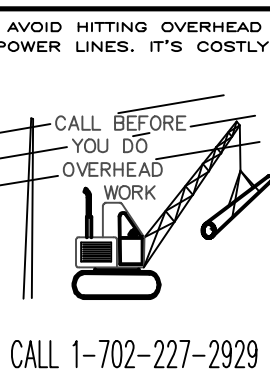
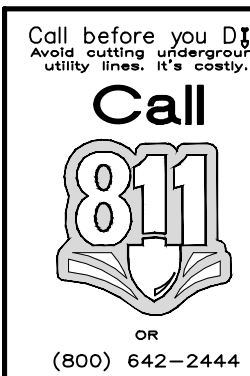
THIS PARCEL IS NOT IN A 100-YEAR FLOOD ZONE. THIS PROPERTY IS IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 32003C2150E, EFFECTIVE DATE 09/27/2002. ZONE "X" IS 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

GRADING PLAN CERTIFICATION:

"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY, ON FILE AT THE CITY OF LAS VEGAS, NEVADA, FOR THIS PROJECT NO. DS5535."

GLENN BLAKE, P.E. NO. 024065

09/07/2022
DATE



GARAGE DROP AND HINGELESS GARAGE DRIVEWAY LEGEND

REFER TO DETAIL Z ON SHEET DT-02 FOR DROP GARAGE DETAILS
★ - TYPE I GARAGE DROP
★★ - TYPE II GARAGE DROP
△ - NO HINGE

GEOTECHNICAL

ALL GRADING SHALL BE PER THE GEOTECHNICAL REPORT PREPARED BY SOUTHWEST GEOTECHNICAL, DATED OCTOBER 15, 2021 PROJECT NO. 210925.

GRADING GENERAL NOTES

- CONTRACTOR TO INSTALL ALL DRIVEWAYS PER CCAUSD #222 & 223
- FINAL GRADES NEXT TO STRUCTURE SHALL BE IN CONFORMANCE WITH IBC 2018, SECTION 2304.11.2.2.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
- ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
- MAXIMUM MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
- SEE SHEET DT-01 FOR STREET SECTIONS AND DETAILS.
- ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
- CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVED BY THE BUILDING DEPARTMENT.
- CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ENGINEER / OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
- PRIVATE STREET LIGHTS & APPURTENANCE SHALL BE PERMITTED AND INSPECTED BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.

GRADING ACREAGE/QUANTITY

ONSITE
PRIVATE (NET) 24.1 ACRES
GROSS ACREAGE 24.1 ACRES

GRADING ONSITE

249,600 CY CUT
48,394 CY FILL
200,666 CY NET
UNADJUSTED FILL

TOTAL
AREA DISTURBED 24.1 ACRES
NET IMPORT/EXPORT 200,666 CY

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "SLV9926SES", BEING A BLM BRASS CAP AT MAINWALL BLVD. & ANN ROAD, (CLV TAG ATTACHED)

ELEVATION: 2945.16 (FEET)
897.686 (METERS)

CITY OF LAS VEGAS VERTICAL CONTROL RE-OBSERVED 2005-2007 BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

DISCLAIMER NOTE

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NOTE

POST-CONSTRUCTION BMPs (PCBMPs) CONTROL MEASURES NOTED ON THE GRADING PLANS ARE MANDATORY PERMANENT REGULATORY STORMWATER POLLUTION CONTROLS. THESE PCBMPs MUST BE INSTALLED PER THE APPROVED PLANS AND MUST BE PERMANENTLY MAINTAINED.

PRIVATE STREET NOTE

PER "100236-FMP", ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A.
ALL EASEMENTS, PER "100236-FMP", WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NA83), SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS:
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS ZONE

PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHING 656,166,666.7 SFT (100,000,000 m)
FALSE EASTING: 328,083,333.3 SFT (100,000,000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

STORM WATER MANAGEMENT NOTES

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NO.	DATE	REVISION	BY	APPROVAL



9/7/2022



GRADING PLAN
(SHEET 6 OF 7)

SHEET TITLE

NIGHTHAWK

CITY OF LAS VEGAS

PROJECT

PROJECT NO.
421049-A-001

DATE
09/07/2022

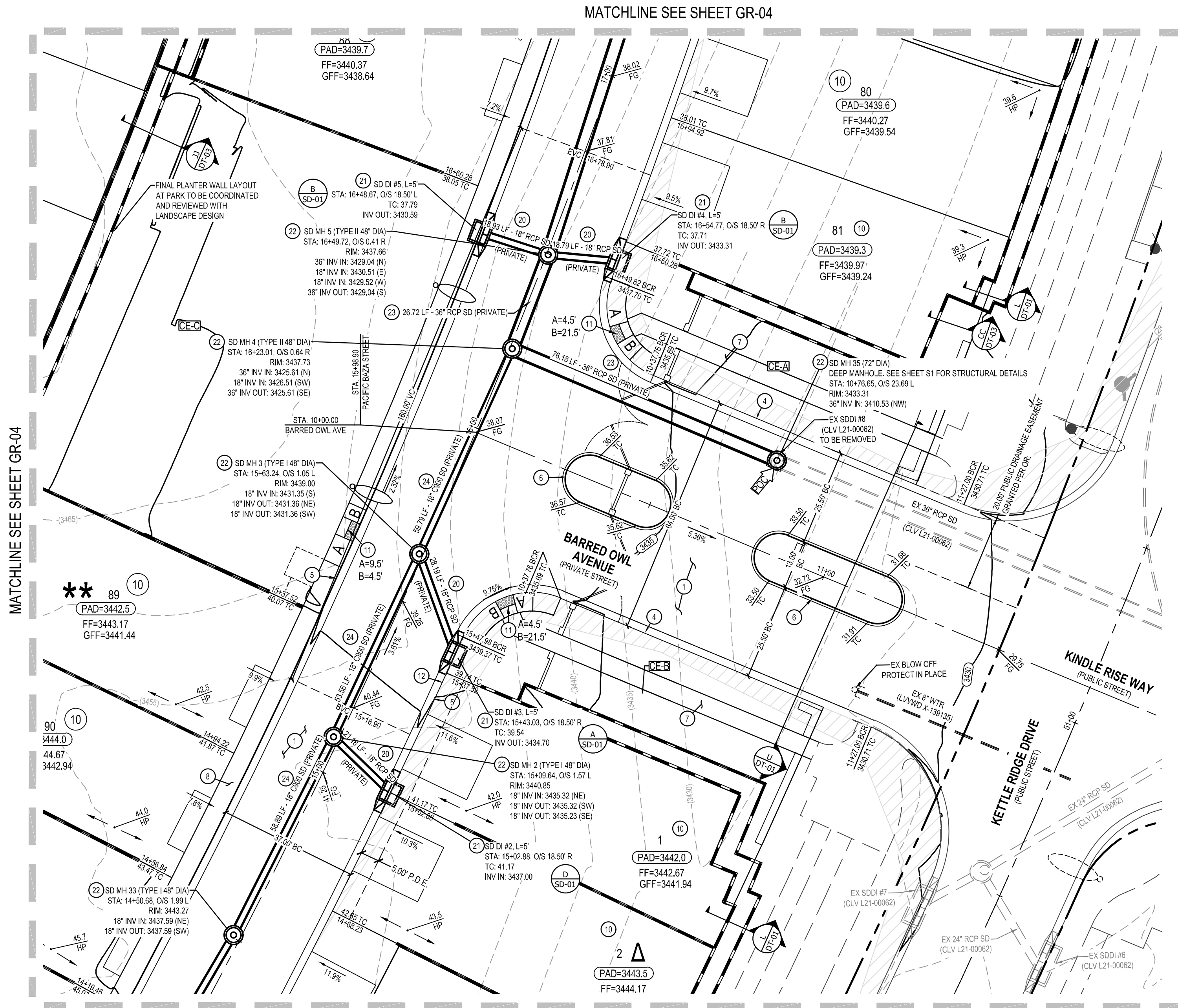
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DESIGNED BY
GRB

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GWB

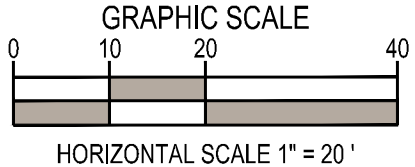
SHEET
GR-06
SHEET 15 OF 56

DRAWING
L22-00473
CLV DWG # 107Y52222



MATCHLINE SEE SHEET GR-04

MATCHLINE SEE SHEET GR-04



GARAGE DROP AND HINGELESS GARAGE DRIVEWAY LEGEND
 REFER TO DETAIL Z ON SHEET DT-02 FOR DROP GARAGE DETAILS
 ★ - TYPE I GARAGE DROP
 ★★ - TYPE II GARAGE DROP
 Δ - NO HINGE

GEOTECHNICAL
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GRADING ACREAGE/QUANTITY	
ONSITE PRIVATE (NET)	24.1 ACRES
GROSS ACREAGE	24.1 ACRES
GRADING ON SITE	
249,600 CY CUT	
48,394 CY FILL	
200,666 CY NET UNADJUSTED FILL	
TOTAL	
AREA DISTURBED	24.1 ACRES
NET IMPORT/EXPORT	200,666 CY

BENCHMARK
 CITY OF LAS VEGAS VERTICAL CONTROL POINT "SLV9926SES", BEING A BLM BRASS CAP AT MAINWALL BLVD. & ANN ROAD, (CLV TAG ATTACHED)
 ELEVATION: 2945.16 (FEET) 897.686 (METERS)
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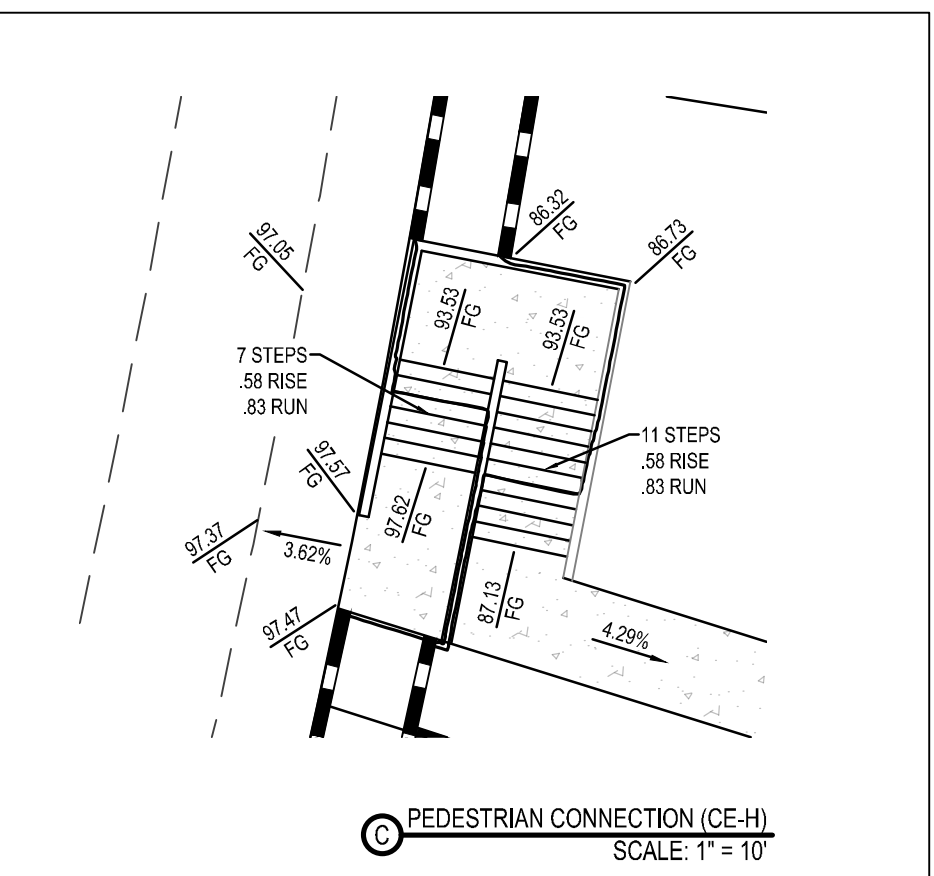
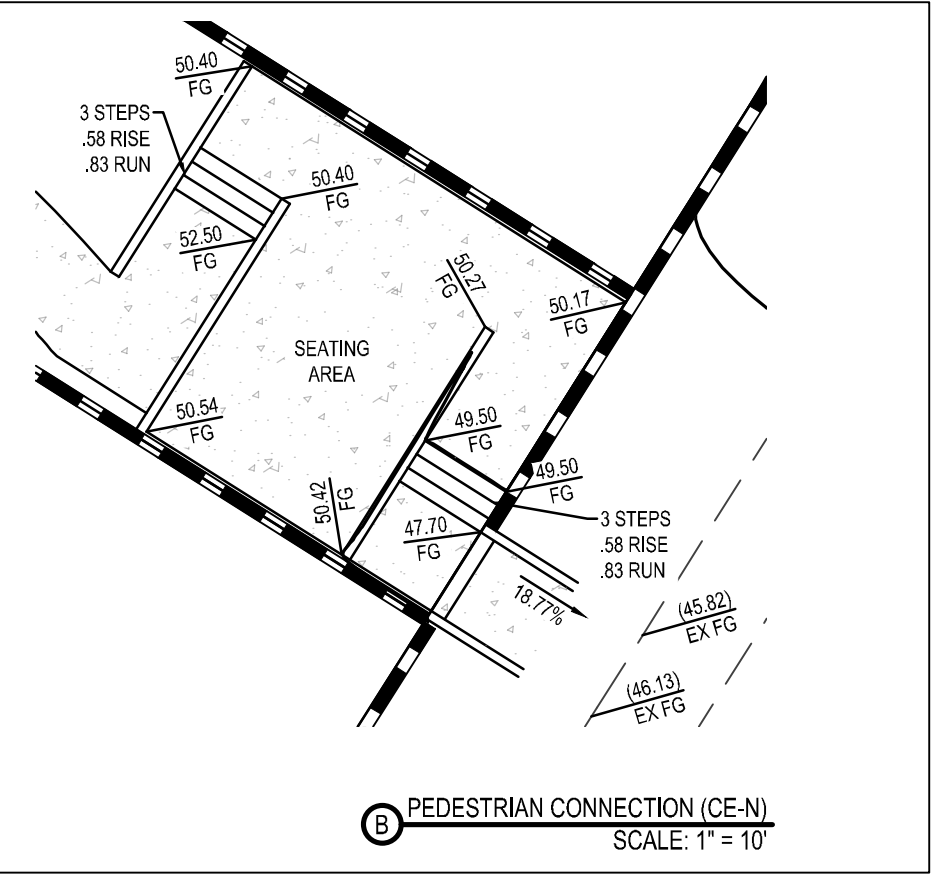
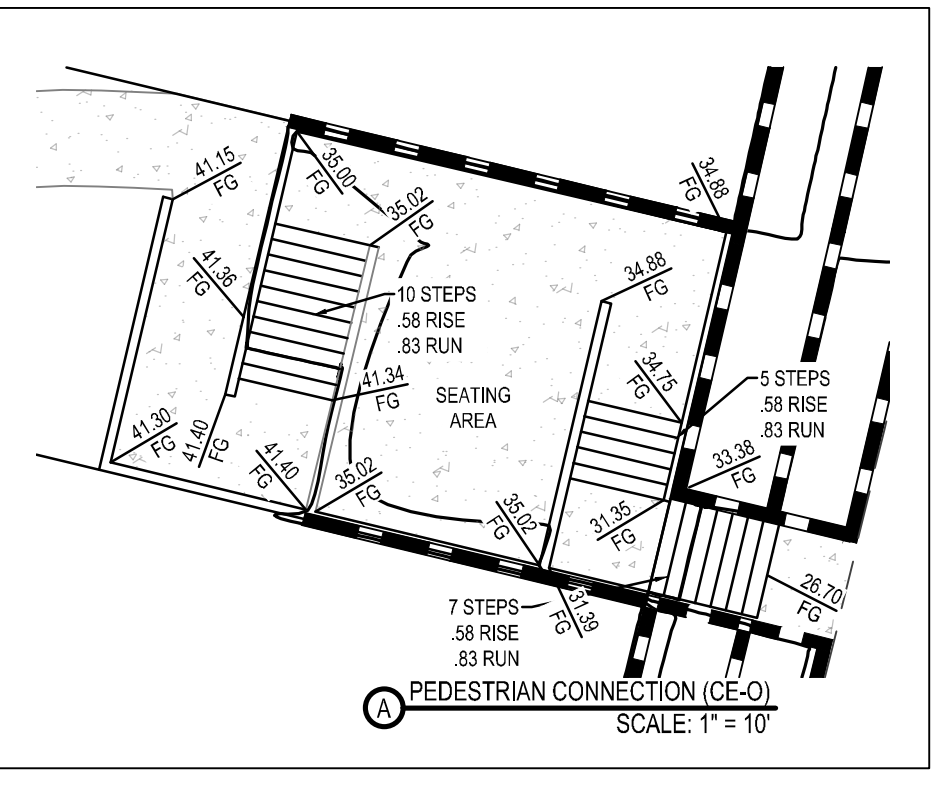
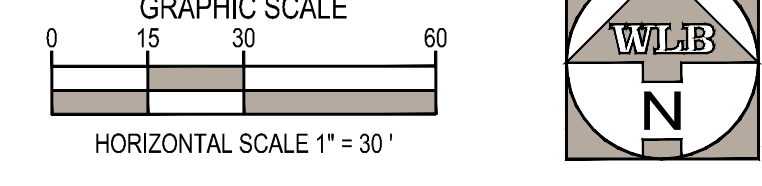
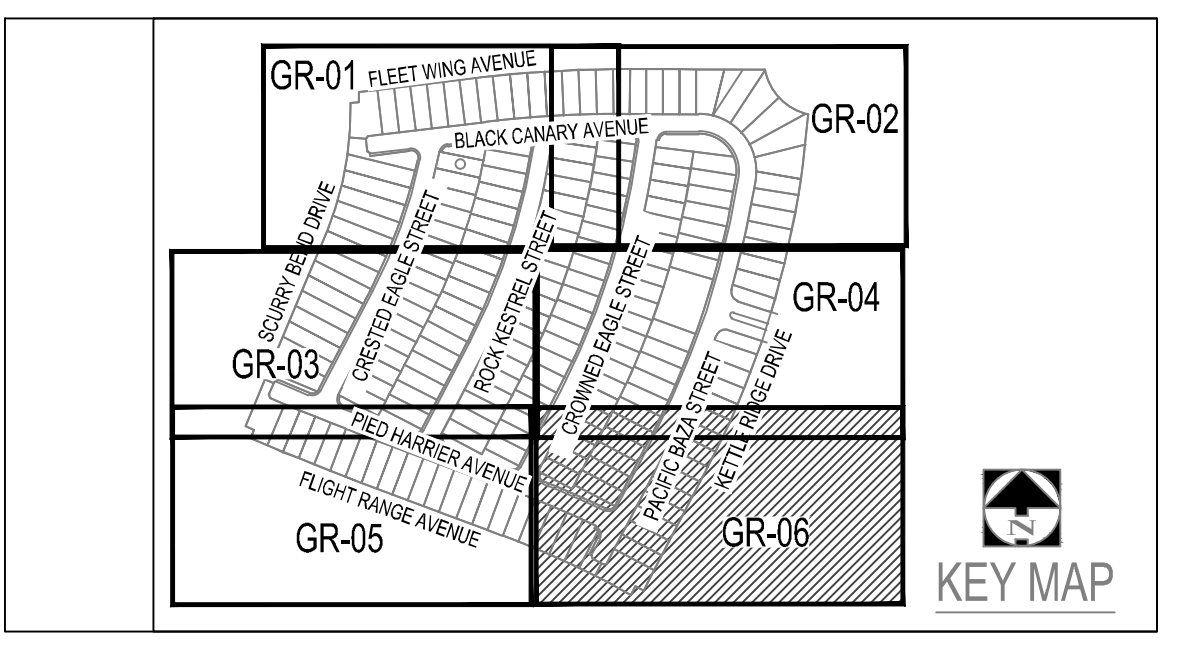
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COORDINATE SYSTEM DEFINITION
 DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
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 ZONE: LAS VEGAS ZONE
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 FALSE NORTHINGS 656,166,667 SFT (200,000,000 m)
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GRADING CONSTRUCTION NOTES

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- CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216
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- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
- LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
- CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
- CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
- CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
- CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
- CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
- CONSTRUCT 4" THICK CONCRETE PAVEMENT
- CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
- INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2'-4" x 1'-6") PER DETAIL FF ON SHEET DT-02

STORM DRAIN CONSTRUCTION NOTES

- INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
- INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & NO. 421 WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
- INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS, SIZE AND LENGTH PER PLAN.
- INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

SITE VISIBILITY ZONE RESTRICTION NOTE
 NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOOD ZONE INFORMATION
 THIS PARCEL IS NOT IN A 100-YEAR FLOOD ZONE. THIS PROPERTY IS IN ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NO. 32003C2150E, EFFECTIVE DATE 09/27/2002. ZONE "X" IS 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN 1 SQUARE MILE.

GRADING PLAN CERTIFICATION:
 "I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY, ON FILE AT THE CITY OF LAS VEGAS, NEVADA, FOR THIS PROJECT NO. DS55535."
 GLENN BLAKE, P.E. NO. 024065
 DATE: 09/07/2022

Call before you Dig
811
OR
(800) 642-2444

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

FAST
Call before you UnderGround
1-702-432-5300
PREMIER AND HYBRID SYSTEM OF TRANSPORTATION

PROJECT	PROJECT NO.	421049-A-001
DATE	DATE	09/07/2022
DRAWN BY	DESIGNED BY	MG
CHECKED BY	CHECKED BY	GRB
	CHECKED BY	GWB
SHEET	SHEET	GR-07
	SHEET	16 OF 56
	DRAWING	L22-00473
	CLV DWG #	107Y52222

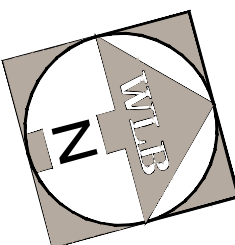
PROFESSIONAL ENGINEER - STATE OF NEVADA
GLENN BLAKE
CIVIL
No. 024065
9/7/2022

The WLB Group Inc.
 Engineering & Landscape Architecture
 Offices located in Las Vegas, Nevada and
 3663 EAST SUNSET ROAD, SUITE 204
 LAS VEGAS, NV. 89120 (702)458-2551

GRADING PLAN
(SHEET 7 OF 7)

NIGHTHAWK

CITY OF LAS VEGAS



DATE _____

CLV DWG # 107Y

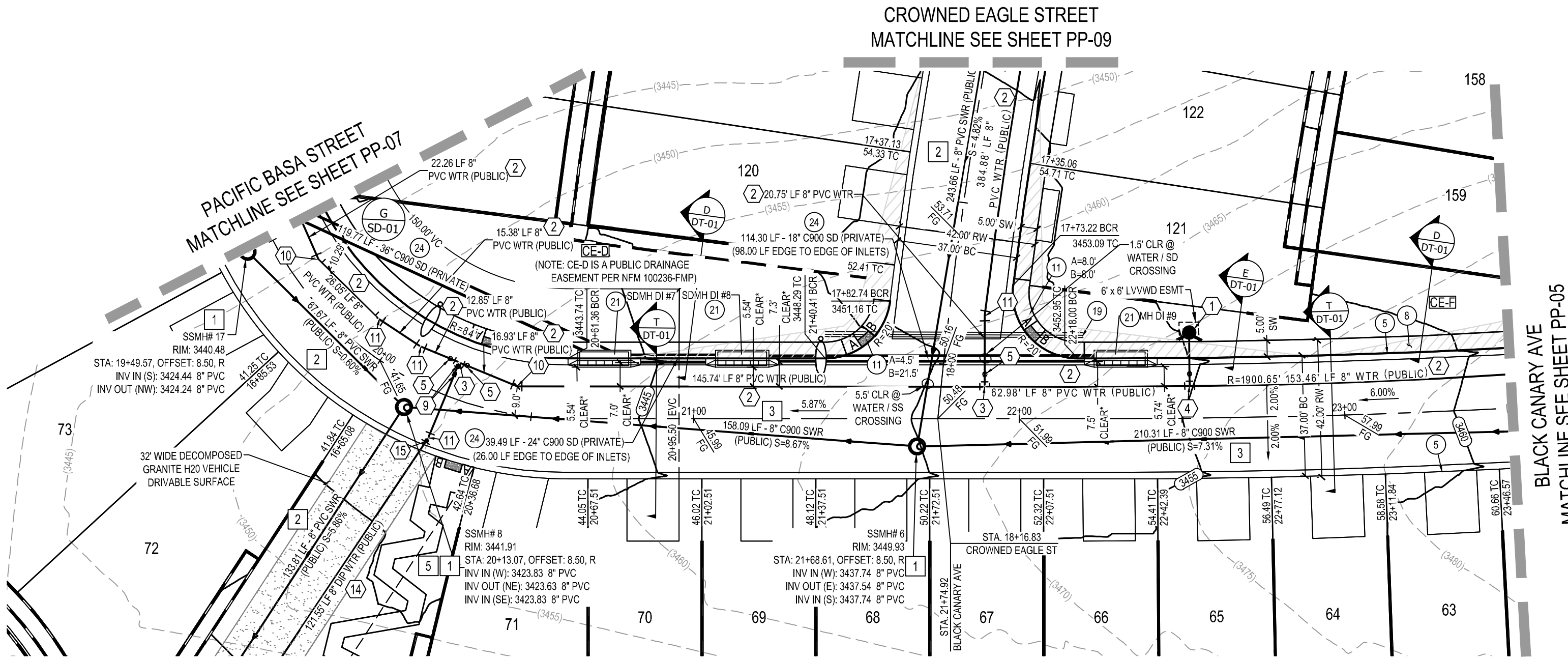
FAST

Call
before you

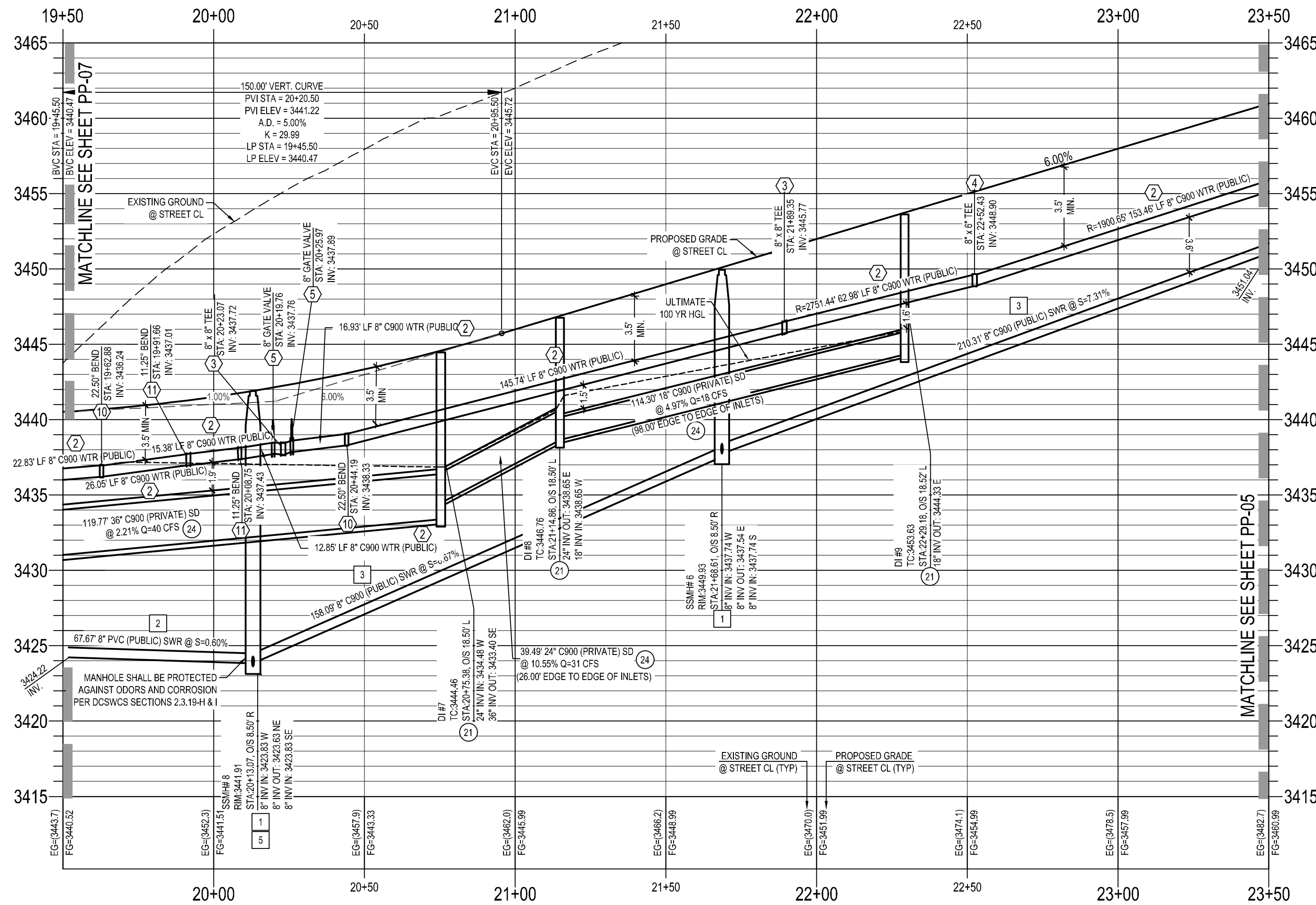
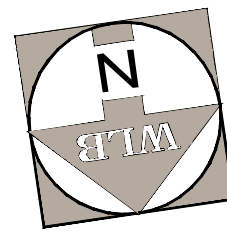
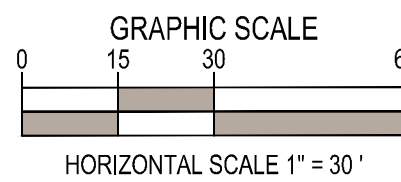
UnderGround

1-702-432-5300

FREWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION



BLACK CANARY AVENUE (PRIVATE STREET)



CLEAR* NOTE:
CLEAR* - REFERS TO EXTERIOR WATER TO EXTERIOR STORM DRAIN DIMENSION

WATER MAIN JOINT DEFLECTION:
PER UDACS 2.07.01 AND 2.07.03

- ### GRADING CONSTRUCTION NOTES
- CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
 - CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
 - CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
 - CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216
 - CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3.S1.
 - CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
 - CONSTRUCT 5' WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
 - CONSTRUCT 5' WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
 - CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
 - LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
 - CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CATE. A&B DIMENSIONS PER PLAN.
 - CONSTRUCT 5' CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
 - CONSTRUCT 5' CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
 - CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
 - CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
 - CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
 - CONSTRUCT 4" THICK CONCRETE PAVEMENT
 - CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
 - INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2-4" 1-6") PER DETAIL FF ON SHEET DT-02

- ### STORM DRAIN CONSTRUCTION NOTES
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 - INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN
 - INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS. SIZE AND LENGTH PER PLAN.
 - INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

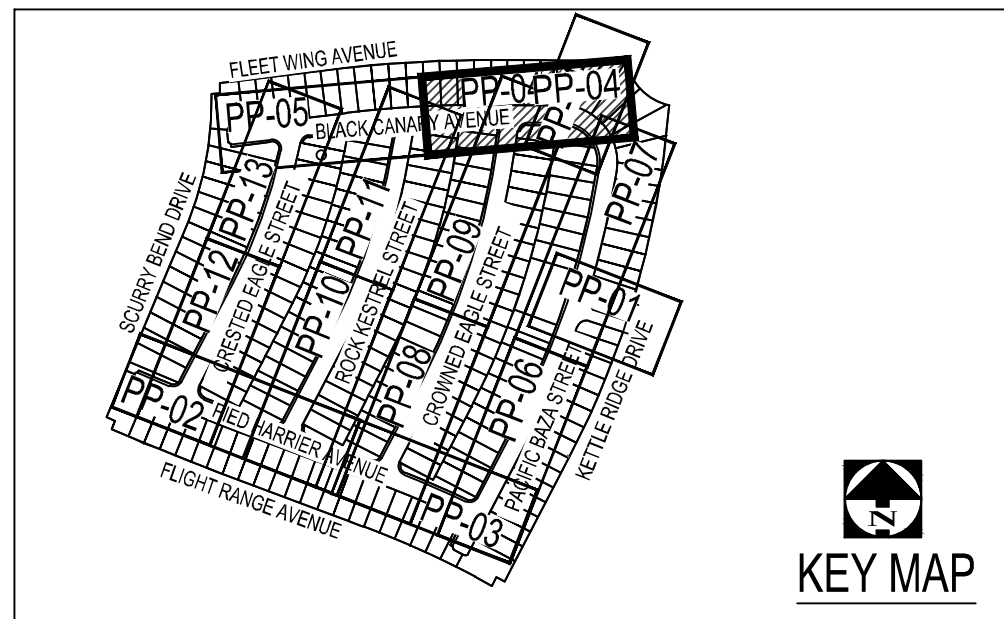
- ### SEWER CONSTRUCTION NOTES
- INSTALL 48" DIA. STANDARD SEWER MANHOLE W/ WATERTIGHT JOINTS PER DCSWCS SD-1, SD-4 & SD-5 WITH SINGLE 24" LID PER SD-3
 - INSTALL PVC SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
 - INSTALL C900 SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
 - INSTALL 4" PVC SEWER LATERAL (PER DCSWCS SD-17, SD-20, SD-21 & SD-23)
 - PROVIDE CORROSION PROTECTION PER DCSWCS 3.16.8 AND REQUIRED AGENCY
 - INSTALL 4" C900 PVC SEWER LATERAL (PER DCSWCS SD-17, SD-20 & SD-23)

- ### WATER CONSTRUCTION NOTES
- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 40 (FIRE HYDRANT, 6" LATERAL, 6" GATE VALVE AND 6" 90° BEND) AND DETAIL II, SHEET DT-03
 - INSTALL PVC (C900) WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
 - INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31
 - INSTALL 8" X 6" TEE PER UDACS PLATE NO. 31
 - INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 & 39
 - INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" IRRIGATION METER WITH 1" RPPA AND UDACS NO. 4 & 8. SEE DETAIL 29, SHEET 53
 - INSTALL 1" COPPER SERVICE LATERAL AND 3/2" METER PER UDACS PLATE NO. 3
 - INSTALL CAP (SAME SIZE AS WATER LINE) WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE NO. 36
 - INSTALL 45° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
 - INSTALL 22.5° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
 - INSTALL 11.25° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
 - REMOVE EXISTING CAP AND BLOW OFF. CUT AND REMOVE EXISTING PIPE THREE (3) FEET MINIMUM FROM THE END OF THE MAIN
 - INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
 - INSTALL DIP WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
 - INSTALL 5" BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31 THRUST BLOCK PER UDACS PLATE NO. 31 11.25 DEGREE BEND

BASIS OF BEARINGS
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83); SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS ZONE
PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHING: 655,165,666.667 SFT (200,000,000.0 m)
FALSE EASTING: 328,083,333.333 SFT (100,000,000.0 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV D88)
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3246.63 FEET)
FND USCGS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S, R59E, S03



DISCLAIMER NOTE
1. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL & HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND & OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING & HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB. PRIOR TO SUBGRADE PREPARATION & CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

PRIVATE STREET NOTE
PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A. ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

LVVWD NOTES:
1. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
2. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
4. ALL SEWER / STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
5. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVs ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. THE PRESSURE ON LOTS 1-22, 55-140, & 148 - 169 EXCEEDS 80 PSI AND PRESSURE-REDUCING VALVES SHALL BE INSTALLED ON SAID LOTS.
6. LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR & 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 APPOINTMENTS ARE AVAILABLE.

TO ENSURE LVVWD ACCESS WITHIN EASEMENT:
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/ WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

DRY UTILITIES:
MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.

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.

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

SURVEY NOTE:
CONTRACTOR SHALL EMPLOY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR (PLS) TO FIELD STAKE THE EXTENT OF THE PROPOSED EXISTING LVVWD EASEMENT WITHIN THE PROJECT SITE. THE PLS SHALL ALSO FIELD STAKE THE PROPOSED EXTENT OF ADJACENT PROJECT BUILDING IMPROVEMENTS IMMEDIATELY ADJACENT TO THE EASEMENT. CONTRACTOR SHALL NOTIFY THE LVVWD INSPECTOR AT LEAST FORTY-FOUR (48) HOURS PRIOR TO PROPOSED INITIAL BUILDING EXCAVATION AND FOUNDATION CONSTRUCTION ACTIVITY. LVVWD WILL INSPECT THE FIELD STAKING FOR COMPLIANCE WITH SEPARATION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LVVWD PRIOR TO UTILITY TRENCHING OR ANY OTHER SUBGRADE EFFECTS WITHIN THE PROPOSED EXISTING LVVWD EASEMENT.

SITE VISIBILITY ZONE RESTRICTION NOTE
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

SEWER CONNECTION NOTE
ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETE ADOR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETE AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 140377 FIRST APPROVAL DATE

CITY OF LAS VEGAS - FIRE & RESCUE DATE

Call before you dig
Avoid hitting overhead
power lines. It's costly.

Call 811

OR
(800) 642-2444

CALL BEFORE
OVERHEAD
WORK

FAST

Call before you
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1-702-432-5300

FIREARM AND ARTIFACT
STORE OF TRANSPORTATION

PROJECT	NO.	DATE	REVISION	BY	APPROVAL
PROJECT PROJECT NO. 421049-A-001 DATE 09/07/2022 DRAWN BY BM DESIGNED BY GRB CHECKED BY GWB					
SHEET PP-04 SHEET 34 OF 56 DRAWING L22-00473 CLV DWG # 107Y52222					

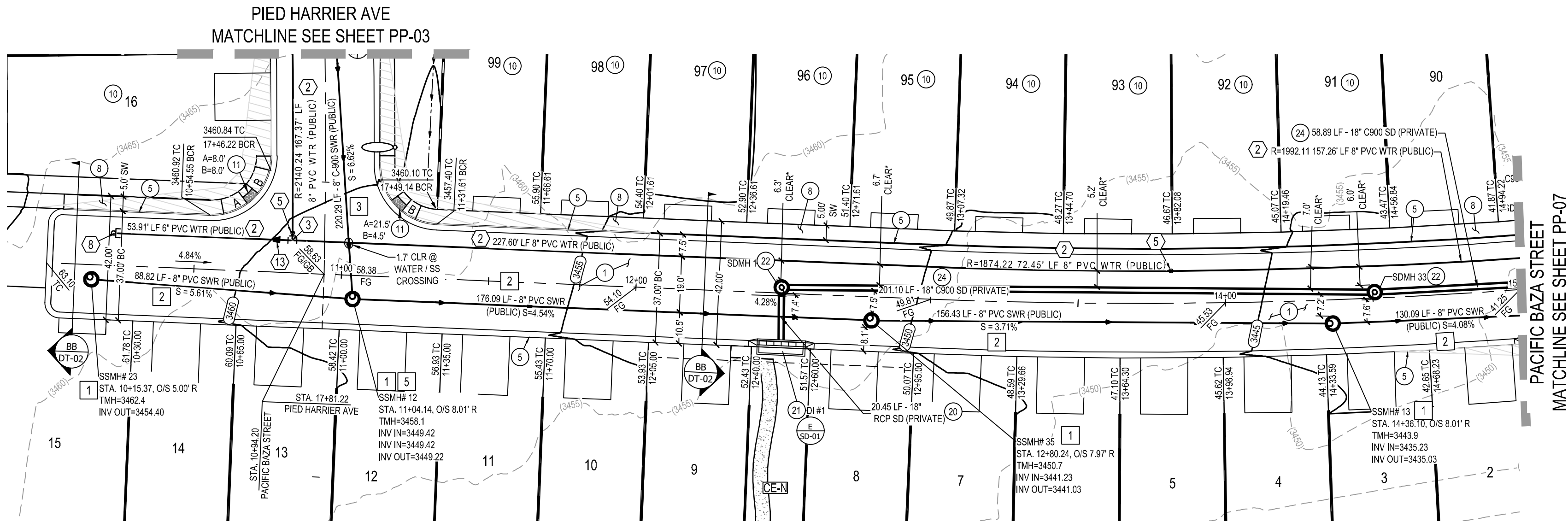
PROFESSIONAL ENGINEER - STATE OF NEVADA
JENNIFER BLAKE
No. 024065
9/7/2022

WVLB
The WVLB Group Inc.
Engineering & Construction
3663 EAST SUNSET ROAD, SUITE 204
LAS VEGAS, NV, 89120 (702)458-2551

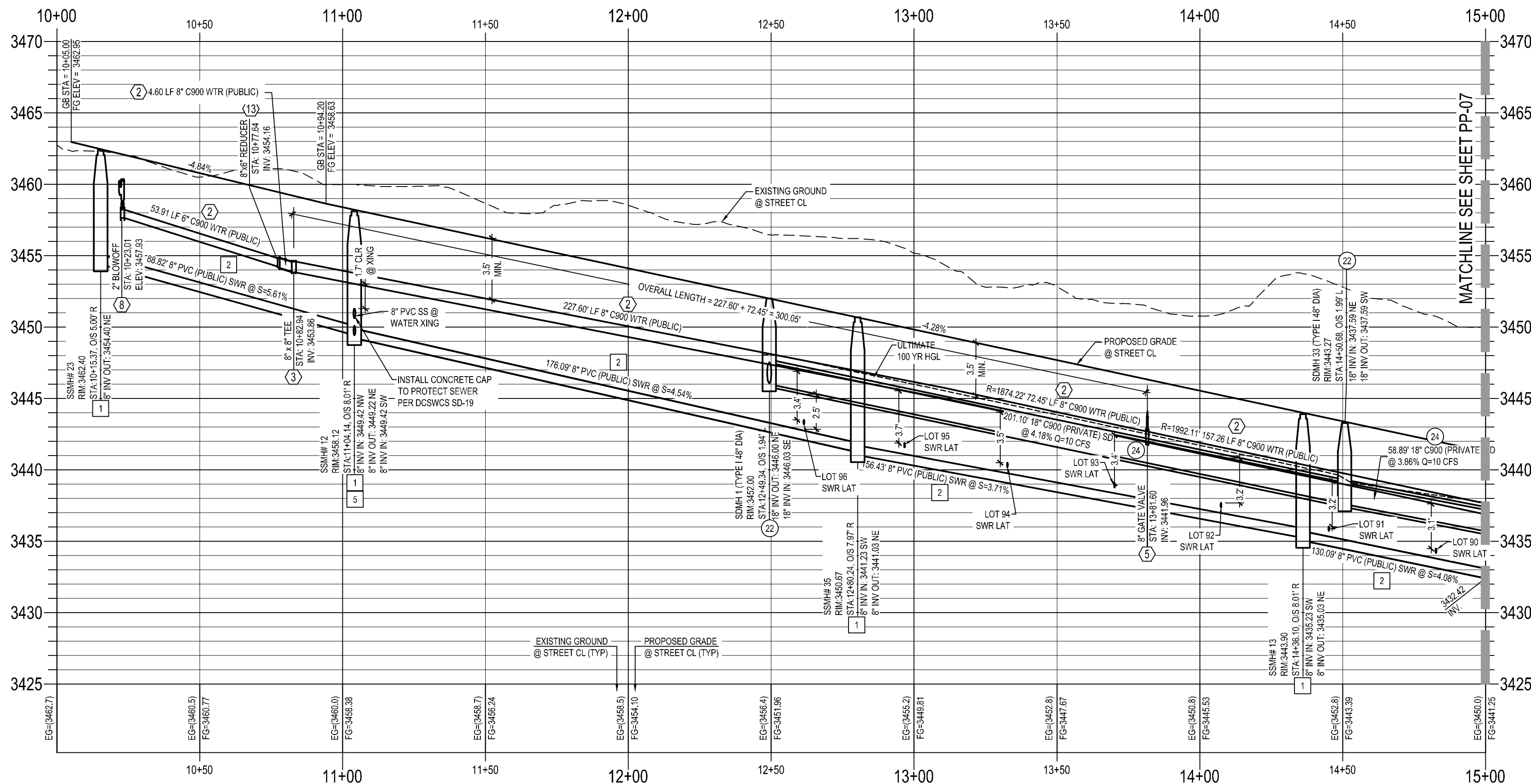
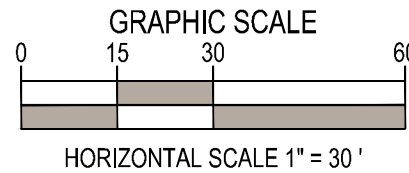
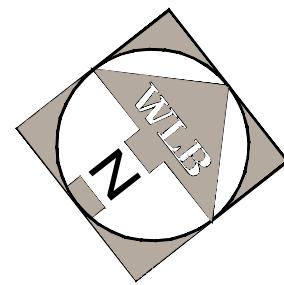
BLACK CANARY AVENUE
(STA 19+00 TO STA 24+00)
PLAN AND PROFILE

NIGHTHAWK

CITY OF LAS VEGAS



PACIFIC BAZA STREET (PRIVATE STREET)



CLEAR* NOTE:
CLEAR* - REFERS TO EXTERIOR WATER TO EXTERIOR STORM DRAIN DIMENSION

WATER MAIN JOINT DEFLECTION:
PER UDACS 2.07.01 AND 2.07.03

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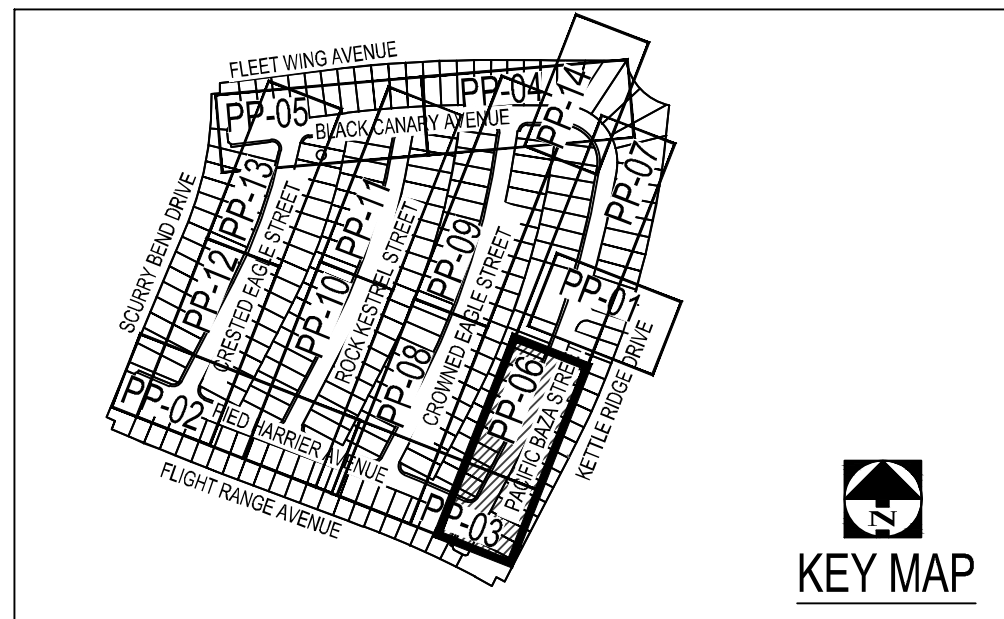
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 - INSTALL PVC SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
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 - PROVIDE CORROSION PROTECTION PER DCSWCS 3.16.8 AND REQUIRED AGENCY
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 - INSTALL 1" COPPER SERVICE LATERAL WITH 3/4" IRRIGATION METER WITH 1" RPPA AND UDACS NO. 4 & 8. SEE DETAIL 29, SHEET 53
 - INSTALL 1" COPPER SERVICE LATERAL AND 3/2" METER PER UDACS PLATE NO. 3
 - INSTALL CAP (SAME SIZE AS WATER LINE) WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE NO. 36
 - INSTALL 45° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
 - INSTALL 22.5° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
 - INSTALL 11.25° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
 - REMOVE EXISTING CAP AND BLOW OFF. CUT AND REMOVE EXISTING PIPE THREE (3) FEET MINIMUM FROM THE END OF THE MAIN
 - INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
 - INSTALL DIP WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
 - INSTALL 5" BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31 THRUST BLOCK PER UDACS PLATE NO. 31 11.25 DEGREE BEND

BASIS OF BEARINGS
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83); SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS ZONE
PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
NAD83 ELEVATION: 989.574 METERS (3246.63 FEET)
FALSE EASTING: 328,083.3333 SFT (100,000.000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3246.63 FEET)
FND USCGS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN. T21S, R5E, S03



DISCLAIMER NOTE
1. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL & HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND & OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING & HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB. PRIOR TO SUBGRADE PREPARATION & CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

PRIVATE STREET NOTE
PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A. ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

LVVWD NOTES:
1. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
2. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
4. ALL SEWER / STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
5. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVs ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. THE PRESSURE ON LOTS 1-22, 55-140, & 148 - 169 EXCEEDS 80 PSI AND PRESSURE-REDUCING VALVES SHALL BE INSTALLED ON SAID LOTS.
6. LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR & 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 APPOINTMENTS ARE AVAILABLE.

TO ENSURE LVVWD ACCESS WITHIN EASEMENT:
ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/ WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

DRY UTILITIES:
MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.

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.

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

SURVEY NOTE:
CONTRACTOR SHALL EMPLOY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR (PLS) TO FIELD STAKE THE EXTENT OF THE PROPOSED EXISTING LVVWD EASEMENT WITHIN THE PROJECT SITE. THE PLS SHALL ALSO FIELD STAKE THE PROPOSED EXTENT OF ADJACENT PROJECT BUILDING IMPROVEMENTS IMMEDIATELY ADJACENT TO THE EASEMENT. CONTRACTOR SHALL NOTIFY THE LVVWD INSPECTOR AT LEAST FORTY-FOUR (48) HOURS PRIOR TO PROPOSED INITIAL BUILDING EXCAVATION AND FOUNDATION CONSTRUCTION ACTIVITY. LVVWD WILL INSPECT THE FIELD STAKING FOR COMPLIANCE WITH SEPARATION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LVVWD PRIOR TO UTILITY TRENCHING OR ANY OTHER SUBGRADE EFFORTS WITHIN THE PROPOSED EXISTING LVVWD EASEMENT.

SITE VISIBILITY ZONE RESTRICTION NOTE
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

SEWER CONNECTION NOTE
ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETE ADOR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETE AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 140377 FIRST APPROVAL DATE

CITY OF LAS VEGAS - FIRE & RESCUE DATE

Call before you dig
Avoid hitting overhead power lines. It's costly.

Call 811

OR
(800) 642-2444

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DIG
OVERHEAD WORK

FAST

Call before you UnderGround

1-702-432-5300

FREEWAY AND AIRPORT SYSTEMS OF TRANSPORTATION

PROJECT

PROJECT NO. 421049-A-001

DATE 09/07/2022

DRAWN BY BM

DESIGNED BY GRB

CHECKED BY GWB

SHEET PP-06

SHEET 36 OF 56

DRAWING L22-00473

CLV DWG # 10752222

BY

REVISION

NO.

DATE

APPROVAL

PROFESSIONAL ENGINEER - STATE OF NEVADA

PLANNING & ENGINEERING

BLANK

CIVIL

No. 024063

9/7/2022

WVLB

The WVLB Group Inc.

Engineering & Construction

3663 EAST SUNSET ROAD, SUITE 204

LAS VEGAS, NV. 89120 (702)458-2551

PACIFIC BAZA STREET
(STA 10+00 TO STA 15+00)

PLAN AND PROFILE

NIGHTHAWK

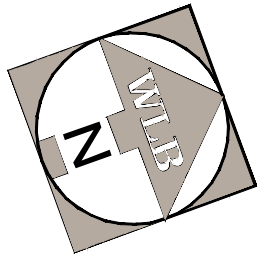
CITY OF LAS VEGAS



GRAPHIC SCALE

HORIZONTAL SCALE 1" = 30'

VERTICAL SCALE 1" = 3'



1	CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
2	CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
3	CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
4	CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216
5	CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3 S1.
6	CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
7	CONSTRUCT 5' WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
8	CONSTRUCT 5' WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
9	CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
10	LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
11	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN.
12	CONSTRUCT 6" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
13	CONSTRUCT 6" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
14	CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
15	CONSTRUCT SIDEWALK UNDERDRAIN FENCE PER CCAUSD NO. 236.
16	CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
17	CONSTRUCT 4" THICK CONCRETE PAVEMENT
18	CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
19	INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2'-4", 1'-6") PER DETAIL FF ON SHEET DT-02

20	INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CA503.2 & 505.
21	INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) STORM DRAIN NO. 421.1 & NO. 421.1 WITH HIGHER TIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
22	INSTALL STORM DRAIN MANHOLE PER UDACS 2.22.01-A, 405, 405.1, & 405.2 (SIZE PER PLAN WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN.
23	INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SUFFICIENT THICKNESS, SIZE AND LENGTH PER PLAN.
24	INSTALL PVC CSO (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CA503.2 & 505.

1	INSTALL 48" DIA. STANDARD SEWER MANHOLE W/ WATER TIGHT JOINTS PER DCSWCS SD-1, SD-4 & SD-5 WITH SINGLE 24" LID PER SD-3
2	INSTALL PVC SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
3	INSTALL C900 SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
4	INSTALL 4" PVC SEWER LATERAL (PER DCSWCS SD-17, SD-20, SD-21 & SD-23)
5	PROVIDE CORROSION PROTECTION PER DCSWCS 3.16.8 AND REQUIRED AGENCY
6	INSTALL 4" C900 PVC SEWER LATERAL (PER DCSWCS SD-17, SD-20 & SD-23)

1	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 40 (FIRE HYDRANT, 6" LATERAL, 6" GATE VALVE AND 6" 90° BEND) AND DETAIL II, SHEET DT-03
2	INSTALL PVC (C900) WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
3	INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31
4	INSTALL 8" X 6" TEE PER UDACS PLATE NO. 31
5	INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 & 39
6	INSTALL 1" COPPER SERVICE LATERAL WITH $\frac{3}{4}$ " IRRIGATION METER WITH 1" RPAA AND UDACS NO. 4 & 8, SEE DETAIL 29, SHEET S3
7	INSTALL 1" COPPER SERVICE LATERAL AND $\frac{3}{4}$ " METER PER UDACS PLATE NO. 3
8	INSTALL CAP (SAME SIZE AS WATER LINE) WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE NO. 36
9	INSTALL 45° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
10	INSTALL 22.5° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
11	INSTALL 11.25° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
12	REMOVE EXISTING CAP AND BLOW OFF. CUT AND REMOVE EXISTING PIPE THREE (3) FEET MINIMUM FROM THE END OF THE MAIN
13	INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
14	INSTALL DIP WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
15	INSTALL 5" BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31 THRUST BLOCK PER UDACS PLATE NO. 31.11 25 DEGREE BEND

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83) SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS:
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS ZONE
PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHING: 656,168.6967' SFT (200,000.000 m)
FALSE EASTING: 328,083.3333' SFT (100,000.000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3246.63 FEET)
FND USC&GS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN
T21S, R59E, S03

1. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL & HORIZONTAL LOCATION OF ALL EXISTING UTILITIES AND TO PROTECT AND OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING & HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED CURB OR GUTTER LINE. IF EXISTING CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A.
ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

1. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
2. PROTECT IN PLACE AND ADJUST LVWDV EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWDV FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
3. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
4. ALL SEWER / STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22.
5. THE PROPOSED WATER MAIN SHALL BE INSTALLED IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVs ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWDV FACILITIES. THE PRESSURE ON LOTS 1-22, 55-140, & 148 - 189 EXCEEDS 80 PSI AND PRESSURE-REDUCING VALVES SHALL BE INSTALLED ON SAID LOTS.
6. LVWDV CANNOT GUARANTEE A WATERIGHT SHUTDOWN WHEN CONNECTIONS OR REPAIRS TO EXISTING FACILITIES REQUIRE THE CONTRACTOR SHALL ENSURE ALL LABELS & 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 APPEARANCES ARE AVAILABLE.

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/ WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.

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

CONTRACTOR SHALL EMPLOY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR (PLS) TO FIELD STAKE THE EXTENT OF THE PROPOSED/ EXISTING LVWD EASEMENT WITHIN THE PROJECT SITE. THE PLS SHALL ALSO FIELD STAKE THE PROPOSED EXTENT OF ADJACENT PROJECT BUILDING IMPROVEMENTS IMMEDIATELY ADJACENT TO THE EASEMENT. CONTRACTOR SHALL NOTIFY THE LVWD INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO PROPOSED INITIAL BUILDING EXCAVATION AND FOUNDATION CONSTRUCTION ACTIVITY. LVWD WILL INSPECT THE FIELD STAKING FOR COMPLIANCE WITH SEPARATION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LVWD PRIOR TO UTILITY TRENCHING OR ANY OTHER SUBGRADE EFFORTS WITHIN THE PROPOSED/ EXISTING LVWD EASEMENT.

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETE AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETE AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 140377 FIRST APPROVAL DATE _____

CITY OF LAS VEGAS - FIRE & RESCUE DATE

[illegible]

9/7/2022

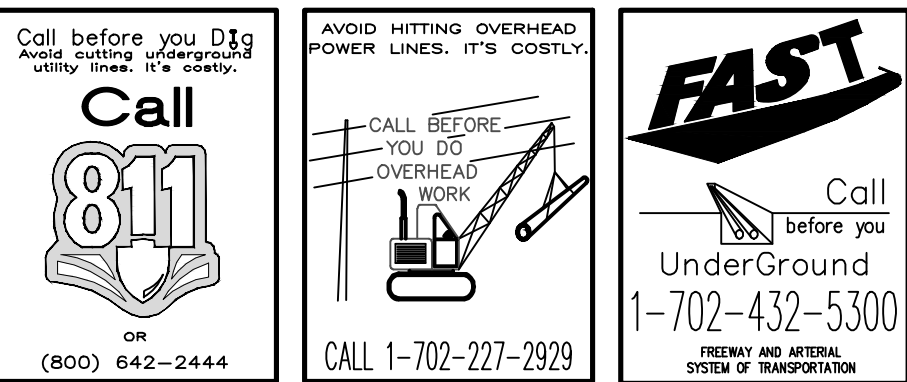


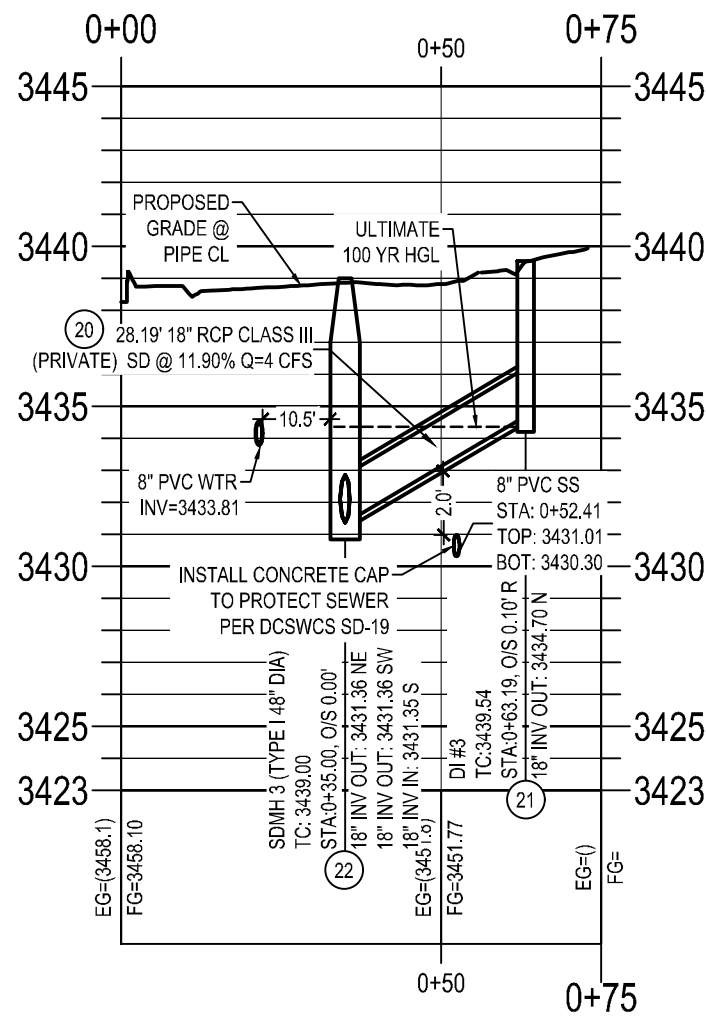
PACIFIC BAZA STREET
STA 15+00 TO STA 19+00)
PLAN AND PROFILE

NIGHTHAWK

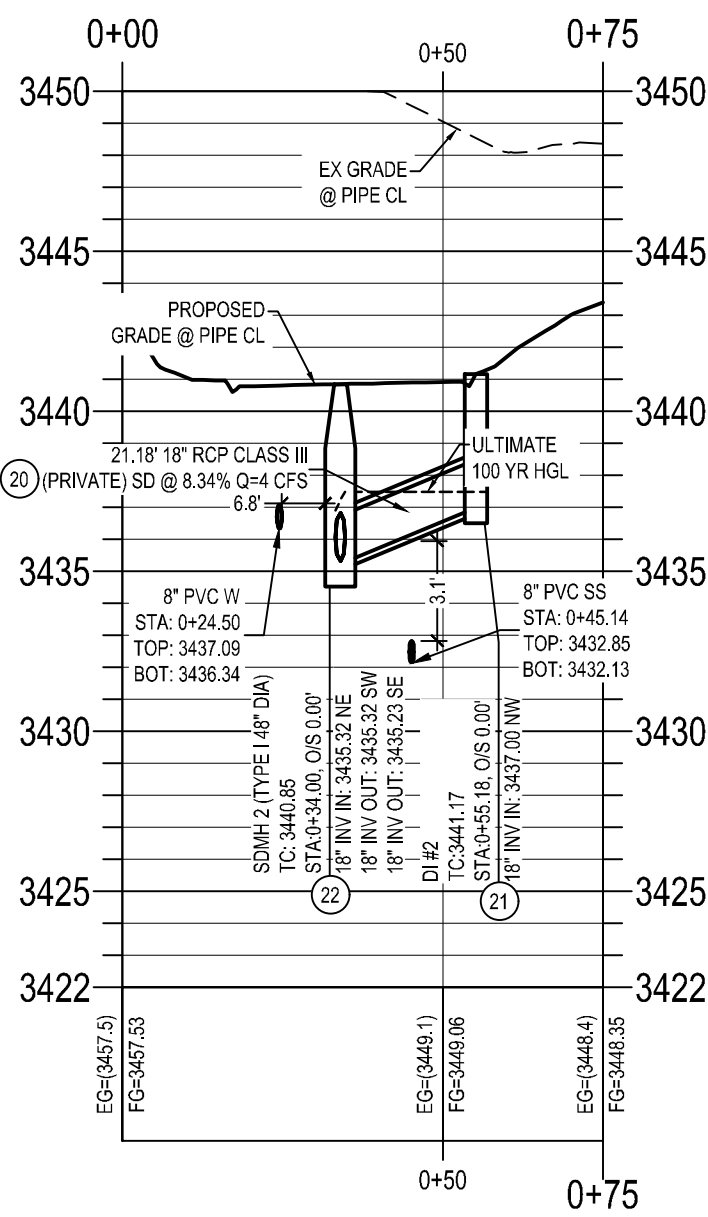
CITY OF LAS VEGAS

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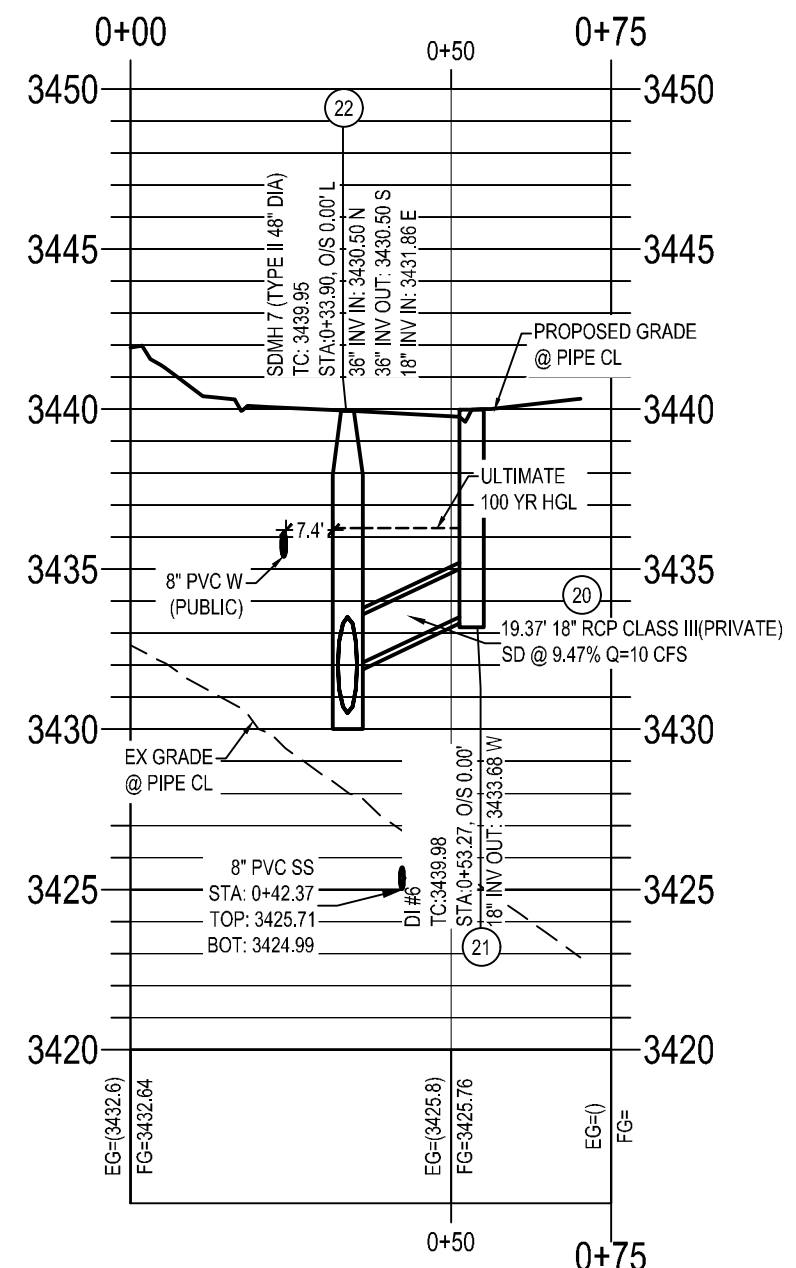




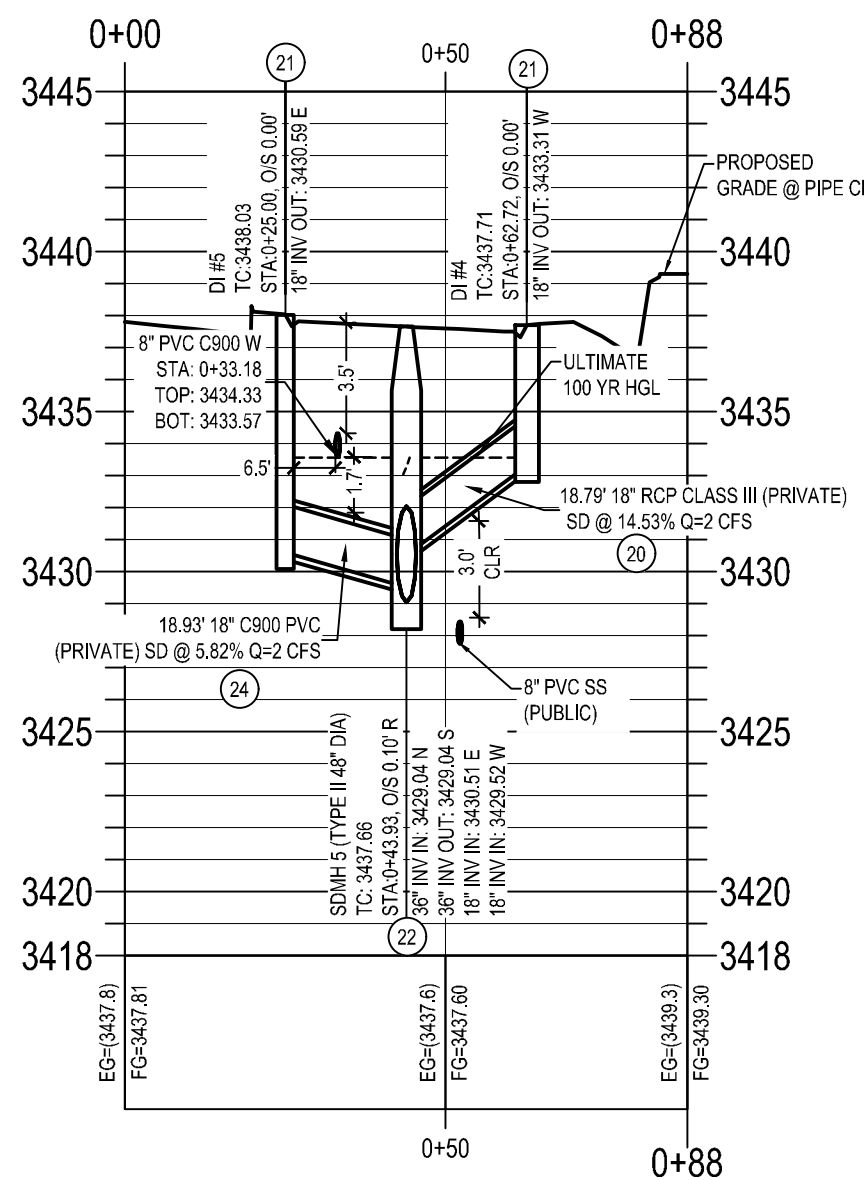
(A) STORM DRAIN LATERAL DETAIL INLET 3
PACIFIC BAZA STREET



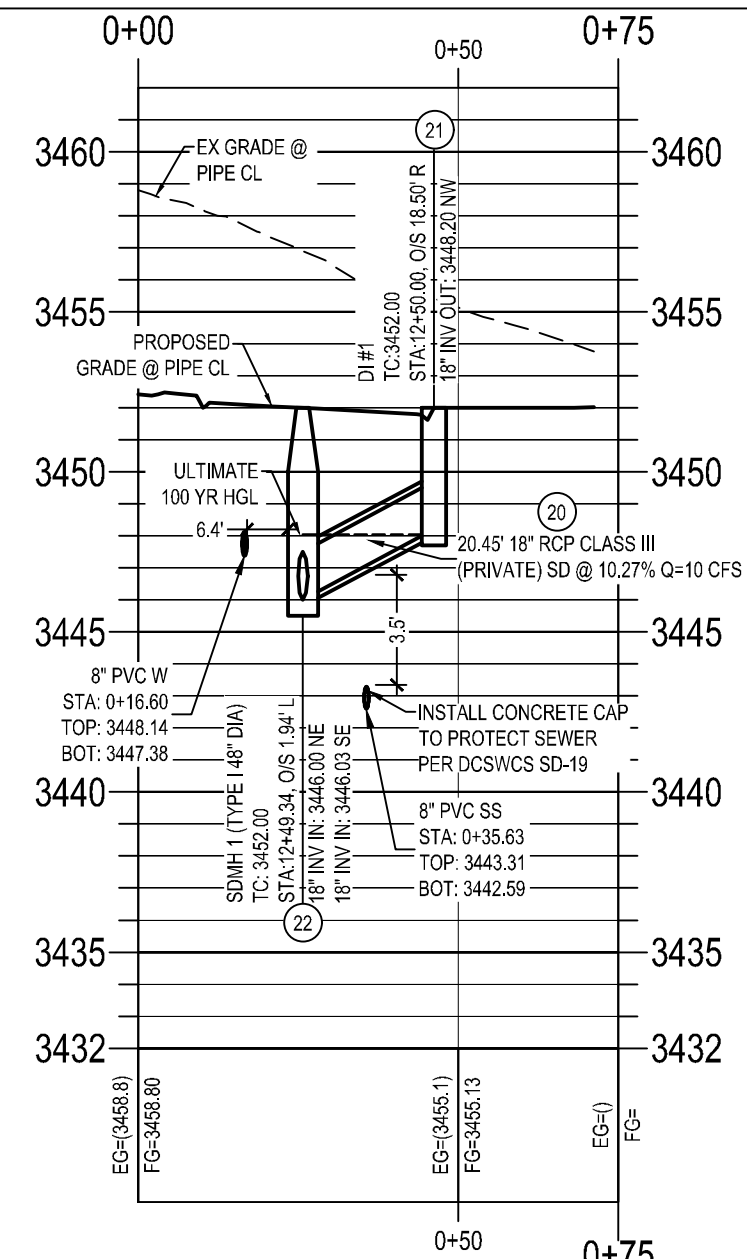
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PACIFIC BAZA STREET



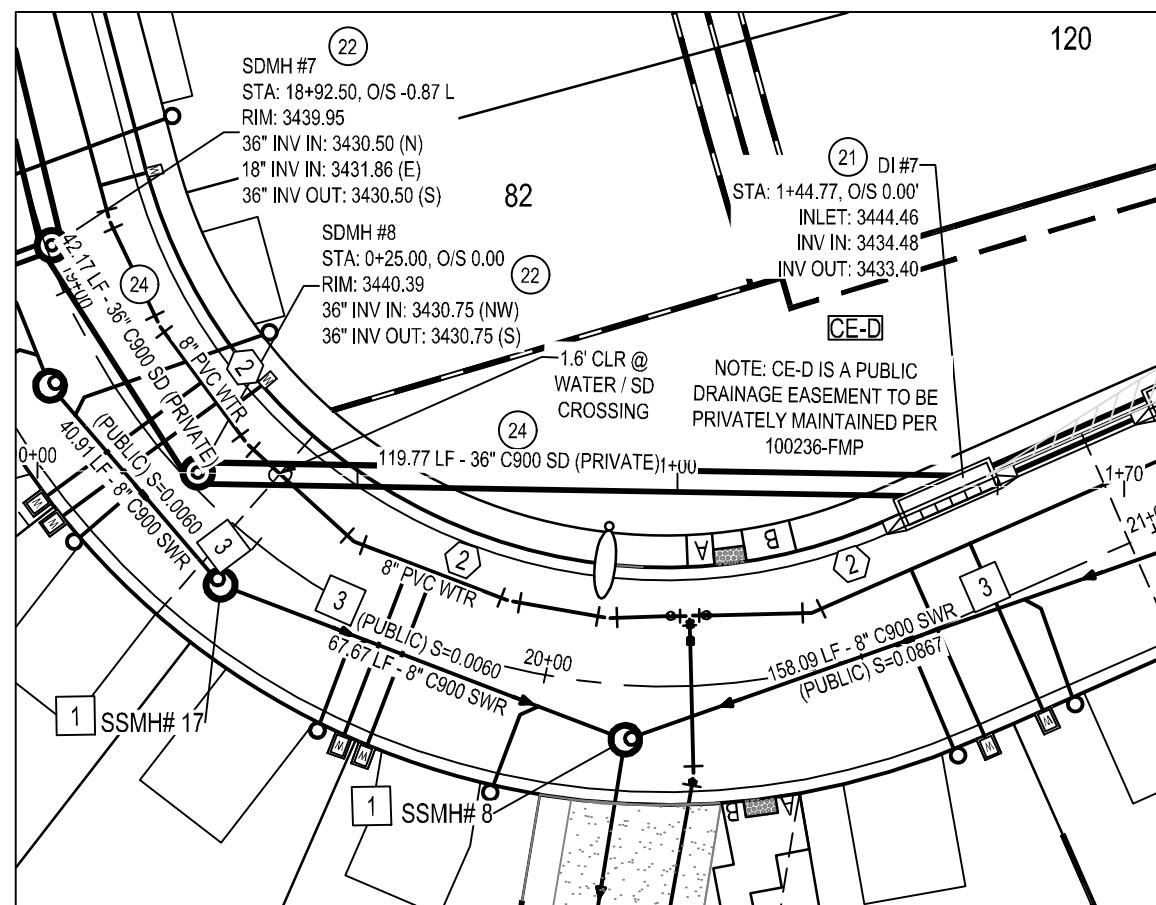
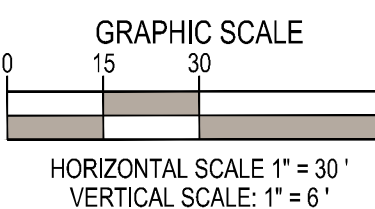
(F) STORM DRAIN LATERAL DETAIL INLET 6
PACIFIC BAZA STREET



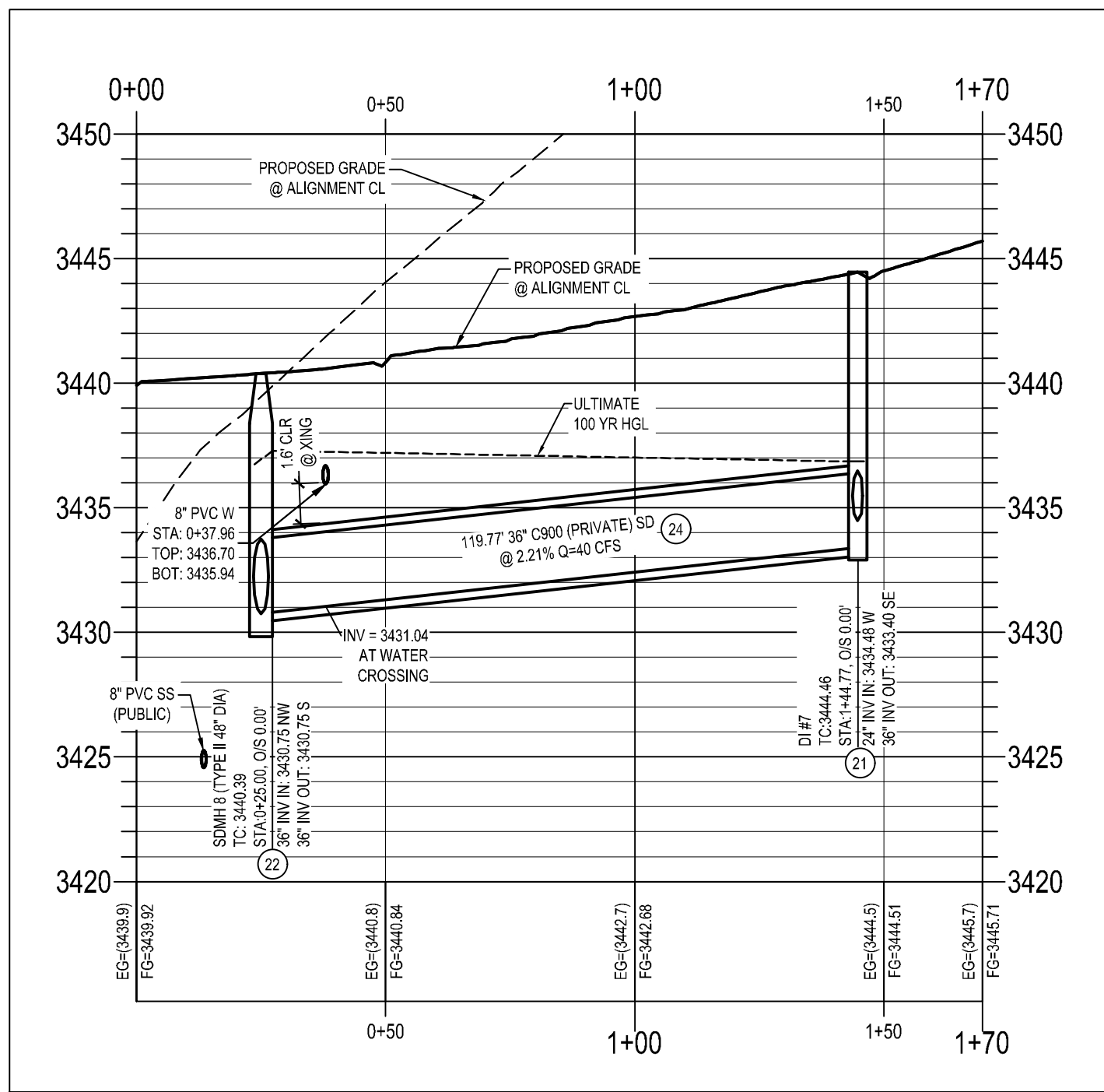
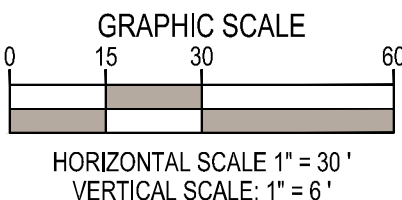
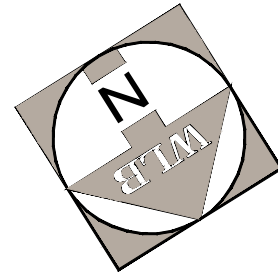
(B) STORM DRAIN LATERAL DETAIL INLET 4
PACIFIC BAZA STREET



(E) STORM DRAIN LATERAL DETAIL INLET 1
PACIFIC BAZA STREET



(G) STORM DRAIN DETAIL



GRADING CONSTRUCTION NOTES

- CONSTRUCT 2" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 3" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT 4.5" THICK A.C. PAVEMENT / 4" TYPE II PER GEOTECHNICAL REPORT NO. 210925.
- CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER CCAUSD NO. 216
- CONSTRUCT CONCRETE "R" TYPE CURB AND GUTTER PER CCAUSD NO. 217.3.S1.
- CONSTRUCT CONCRETE MEDIAN ISLAND PER CCAUSD NO. 218.
- CONSTRUCT 5' WIDE, 4" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 5' WIDE, 5" THICK CONCRETE SIDEWALK PER CCAUSD NO. 234.
- CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
- LOT DRAINAGE. SEE DETAIL AA, SHEET DT-02
- CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I. A&B DIMENSIONS PER PLAN.
- CONSTRUCT 5" CONCRETE TRANSITION FROM "L" TYPE CURB TO "R" CURB PER DETAIL 11, SHEET DT-02
- CONSTRUCT 5" CONCRETE TRANSITION FROM "R" TYPE CURB TO ZERO FACE CURB PER DETAIL 12, SHEET DT-02
- CONSTRUCT 30" WROUGHT IRON FENCE GATE PER DETAIL 18, SHEET DT-02
- CONSTRUCT SIDEWALK UNDERDRAIN PER PER CCAUSD NO. 236.
- CONSTRUCT DRAINAGE SLUICE PER PER DETAIL 19, SHEET DT-02
- CONSTRUCT 4" THICK CONCRETE PAVEMENT
- CONSTRUCT 8" WIDE CONCRETE DRAINAGE CHANNEL
- INSTALL SCHEDULE 40 PVC IRRIGATION SLEEVE (2.4" x 1.6") PER DETAIL FF ON SHEET DT-02

STORM DRAIN CONSTRUCTION NOTES

- INSTALL RCP CLASS III (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.
- INSTALL TYPE CM DROP INLET (LENGTH PER PLAN) PER CCAUSD NO. 421.1 & NO. 421 WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN
- INSTALL STORM DRAIN MANHOLE PER CCAUSD 401, 405, 405.1, & 405.2 (SIZE PER PLAN) WITH WATERTIGHT JOINTS PER UDACS 2.22.01-B IF LESS THAN 10' (EXT TO EXT) FROM WATER MAIN
- INSTALL RCP CLASS IV WITH 6,000 PSI CONCRETE AND 2-INCH ADDITIONAL SACRIFICIAL THICKNESS. SIZE AND LENGTH PER PLAN.
- INSTALL PVC C900 (SIZE AND LENGTH PER PLAN) STORM DRAIN PER CCAUSD 503.2 & 505.

SEWER CONSTRUCTION NOTES

- INSTALL 48" DIA. STANDARD SEWER MANHOLE W/ WATERTIGHT JOINTS PER DCSWCS SD-1, SD-4 & SD-5 WITH SINGLE 24" LID PER SD-3
- INSTALL PVC SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
- INSTALL C900 SEWER MAIN PER DCSWCS PER DCSWCS SD-15 & SD-17 (SIZE PER PLAN)
- INSTALL 4" PVC SEWER LATERAL (PER DCSWCS SD-17, SD-20, SD-21 & SD-23)
- PROVIDE CORROSION PROTECTION PER DCSWCS 3.16.8 AND REQUIRED AGENCY
- INSTALL 4" C900 PVC SEWER LATERAL (PER DCSWCS SD-17, SD-20 & SD-23)

WATER CONSTRUCTION NOTES

- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 40 (FIRE HYDRANT, 6" LATERAL, 6" GATE VALVE AND 6" 90° BEND) AND DETAIL II, SHEET DT-03
- INSTALL PVC (C900) WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
- INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31
- INSTALL 8" X 6" TEE PER UDACS PLATE NO. 31
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 & 39
- INSTALL 1" COPPER SERVICE LATERAL WITH ½" IRRIGATION METER WITH 1" RPPA AND UDACS NO. 4 & 8. SEE DETAIL 29, SHEET 53
- INSTALL 1" COPPER SERVICE LATERAL AND ½" METER PER UDACS PLATE NO. 3
- INSTALL CAP (SAME SIZE AS WATER LINE) WITH 2" BLOW OFF ASSEMBLY PER UDACS PLATE NO. 36
- INSTALL 45° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
- INSTALL 22.5° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
- INSTALL 11.25° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31
- REMOVE EXISTING CAP AND BLOW OFF. CUT AND REMOVE EXISTING PIPE THREE (3) FEET MINIMUM FROM THE END OF THE MAIN
- INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
- INSTALL DIP WATER MAIN PER UDACS PLATE NO. 17 & 19 (SIZE PER PLAN)
- INSTALL 5° BEND (SAME SIZE AS WATER LINE) PER UDACS NO. 31 THRUST BLOCK PER UDACS PLATE NO. 31 11.25 DEGREE BEND

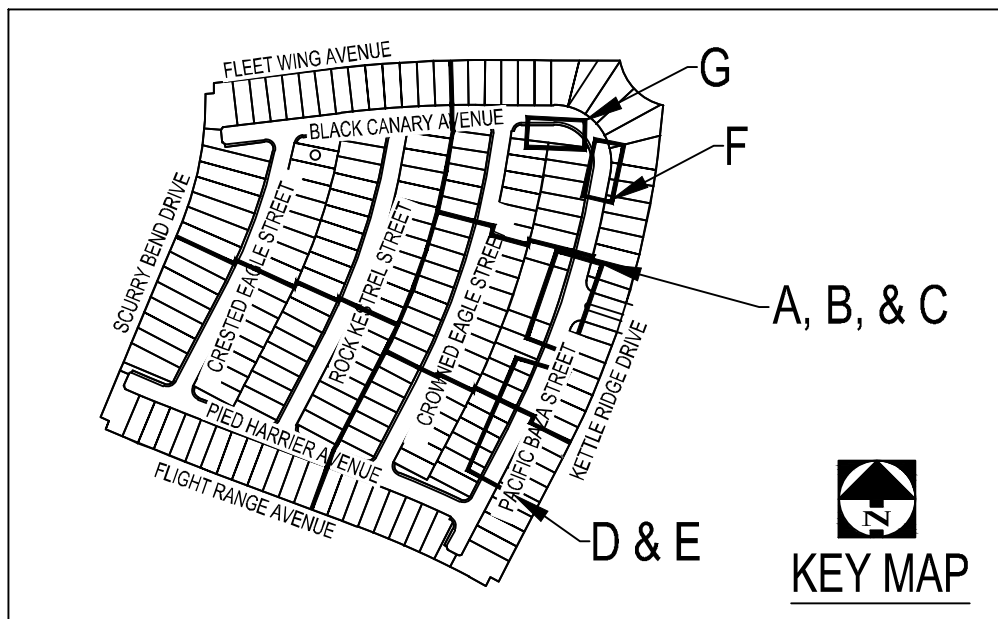
BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983 (NAD 83); SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

COORDINATE SYSTEM DEFINITION
DATUM/REFERENCE FRAME: NAD83(2011) EPOCH 2010.0
MAPPING PROJECTION PARAMETERS
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS ZONE
PROJECTION TYPE: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00" W
LINEAR UNIT: US SURVEY FOOT (SFT)
FALSE NORTHING: 655,169,666.7 SFT (200,000,000 m)
FALSE EASTING: 328,083,333.3 SFT (100,000,000 m)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: D368 (REVISED 2008)
NAVD88 ELEVATION: 989.574 METERS (3246.63 FEET)
FND USGCS DISC SET IN ROCK RIDGE 150' SOUTH OF CHARLESTON BLVD. & WEST OF DETENTION BASIN.
T21S, R59E, S03



DISCLAIMER NOTE

- EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL & HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND & OVERHEAD 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 NOT SHOWN IN THEIR PROPER LOCATION.
- FOR ROADWAY WIDENING & HALF STREET IMPROVEMENTS, THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB. PRIOR TO SUBGRADE PREPARATION & CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

PRIVATE STREET NOTE

PER 100236-FMP, ALL PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS, PUBLIC DRAINAGE EASEMENTS, AND PUBLIC SEWER EASEMENTS, UNLESS NOTED OTHERWISE TO BE PRIVATELY MAINTAINED BY H.O.A. ALL EASEMENTS, PER 100236-FMP, WITHIN THE PROPERTY LINES TO BE PRIVATELY MAINTAINED BY H.O.A., UNLESS OTHERWISE NOTED ON PLANS.

LVVWD NOTES:

- INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
- ALL SEWER / STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22
- THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. THE PRESSURE ON LOTS 1-22, 55-140, & 148 - 169 EXCEEDS 80 PSI AND PRESSURE-REDUCING VALVES SHALL BE INSTALLED ON SAID LOTS.
- LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR & 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.

TO ENSURE LVVWD ACCESS WITHIN EASEMENT:

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES/ WALLS (TO INCLUDE NO FOOTINGS), AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

DRY UTILITIES:

MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.

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.

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

SURVEY NOTE:

CONTRACTOR SHALL EMPLOY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR (PLS) TO FIELD STAKE THE EXTENT OF THE PROPOSED/ EXISTING LVVWD EASEMENT WITHIN THE PROJECT SITE. THE PLS SHALL ALSO FIELD STAKE THE PROPOSED EXTENT OF ADJACENT PROJECT BUILDING IMPROVEMENTS IMMEDIATELY ADJACENT TO THE EASEMENT. CONTRACTOR SHALL NOTIFY THE LVVWD INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO PROPOSED INITIAL BUILDING EXCAVATION AND FOUNDATION CONSTRUCTION ACTIVITY. LVVWD WILL INSPECT THE FIELD STAKING FOR COMPLIANCE WITH SEPARATION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LVVWD PRIOR TO UTILITY TRENCHING OR ANY OTHER SUBGRADE EFFORTS WITHIN THE PROPOSED/ EXISTING LVVWD EASEMENT.

SITE VISIBILITY ZONE RESTRICTION NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

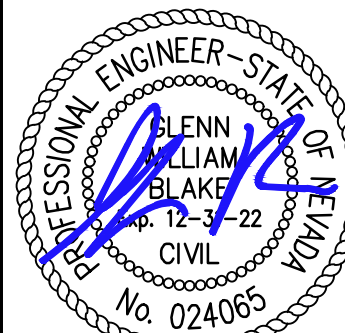
SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETE ADIOR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETE AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 140377 FIRST APPROVAL DATE



9/7/2022



SD LATERAL PROFILES

NIGHTHAWK

PROJECT

PROJECT NO. 421049-A-001

DATE 09/07/2022

DRAWN BY

DESIGNED BY

CHECKED BY GWB

SHEET SD-01
SHEET 51 OF 56

DRAWING L22-00473
CLV DWG # 107Y52222