

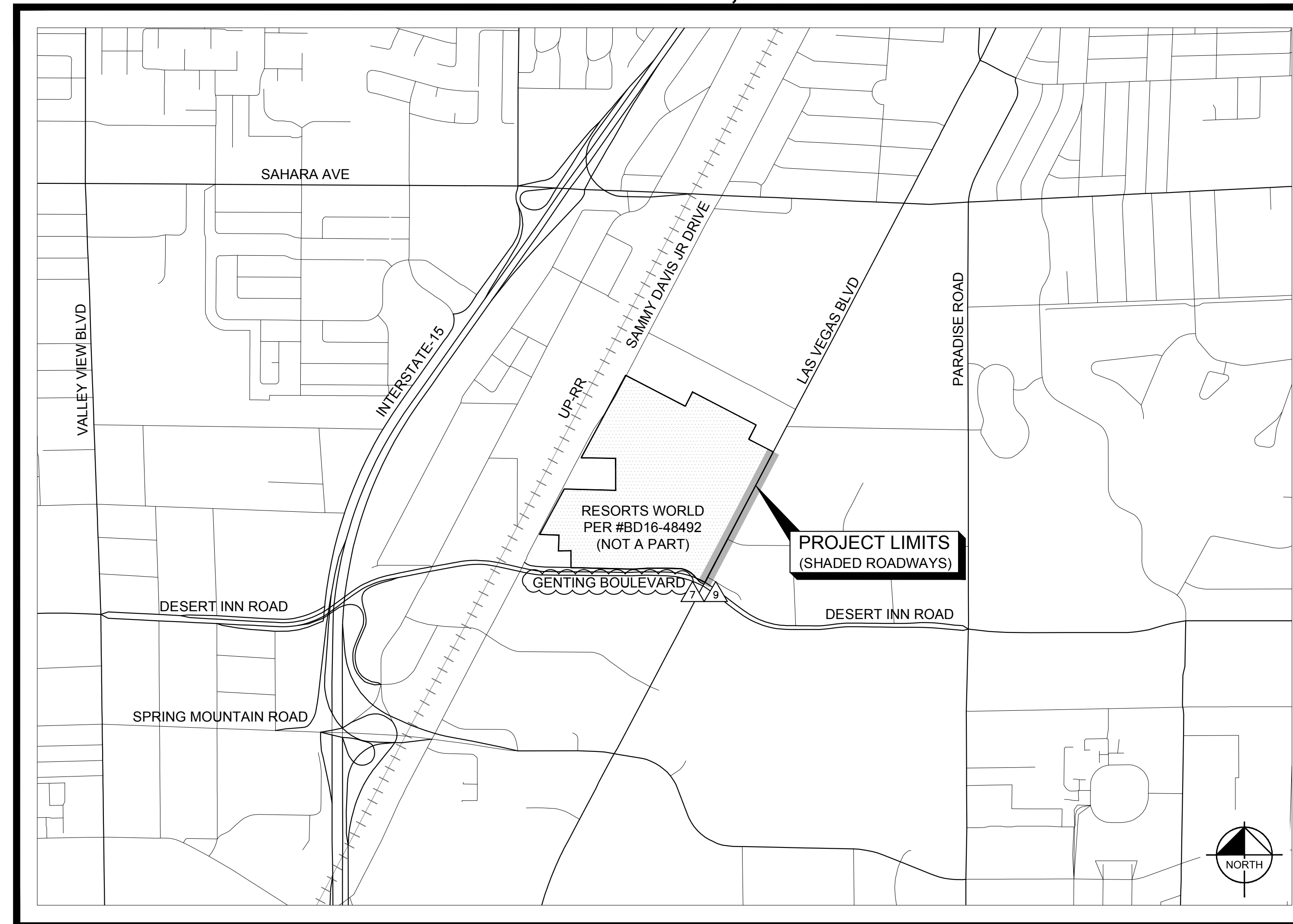
OFFSITE CIVIL IMPROVEMENT PLANS (L-2210)

FOR

RESORTS WORLD - LAS VEGAS

APN: 162-09-312-002 (MAIN SITE), 162-09-312-006 (NORTH TOWER),
162-09-312-005 (CONVENTION), 162-09-312-004 (PLAZA), 162-09-413-003 (S. LOT),
162-09-312-003 (N. LOT), 162-09-413-001 (CUP), 162-09-413-002 (FACILITIES LOT)

CLARK COUNTY, NEVADA



PROJECT VICINITY MAP
NTS

PROJECT CONTACTS

DEVELOPER
RESORTS WORLD LAS VEGAS, LLC.
11000 ROCKAWAY BOULEVARD
JAMAICA, NEW YORK 11420

CONTACT: GERALD GARDNER
(702) 802-6460

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD SOUTH, SUITE 320
LAS VEGAS, NEVADA 89119

CONTACT: THOMAS ACKERET
(702) 862-3600

OWNER
RESORTS WORLD LAS VEGAS LLC
3000 LAS VEGAS BOULEVARD SOUTH
LAS VEGAS, NEVADA 89109

CONTACT: GERALD GARDNER
(702) 802-6460

PROJECT SURVEYOR
HERITAGE SURVEYING
1895 VILLAGE CENTER CIRCLE
LAS VEGAS, NEVADA 89134

CONTACT: DENNIS LAYTON
(702) 474-6277

PROJECT ARCHITECT
STELMAN PARTNERS
3330 W. DESERT INN ROAD
LAS VEGAS, NEVADA 89102

CONTACT: ALFREDO ALCANTAR
(702) 873-0221

PROJECT INFORMATION

NUMBER OF LOTS: 6
ACREAGE: ±87.2 ACRES
ZONING: LIMITED RESORT AND APARTMENT (H-1)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "7C11 9SW6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

CONVERSION TO 2018 BENCHMARK:
637.459 - 0.073m = 637.386 METERS
2091.40 - 0.24 = 2091.16 FEET

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

UTILITY NOTE

KIMLEY-HORN AND ASSOCIATES TAKES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN HEREIN. THE EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY OTHER PARTIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY THE LOCATIONS AND INVERTS OF THE EXISTING UTILITIES WITHIN THE VICINITY OF CONSTRUCTION ACTIVITIES. IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL COORDINATE THE PROJECT ENGINEER, PROJECT ARCHITECT, AND THE OWNER IMMEDIATELY.

SHEET INDEX

REFER TO SHEET GN-03 FOR SHEET INDEX.

APPROVALS

ORIGINALLY SIGNED BY E. KAMINSKI
CLARK COUNTY FIRE DEPARTMENT DATE

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

SEE L-2210 COVER SHEET FOR UTILITY SIGNATURE
CLARK COUNTY WATER RECLAMATION DISTRICT DATE

COWD PIPES NUMBER IS #19.949. SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

SEE L-2210 COVER SHEET FOR UTILITY SIGNATURE
CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK DATE

THE AFFIXED CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

SEE L-2210 COVER SHEET FOR UTILITY SIGNATURE
COX COMMUNICATIONS LAS VEGAS, INC. DATE

SEE L-2210 COVER SHEET FOR UTILITY SIGNATURE
NV ENERGY DATE

NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

SEE L-2210 COVER SHEET FOR UTILITY SIGNATURE
SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION
ORIGINALLY SIGNED BY S. KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No.: 136077 FIRST APPROVED DATE:
SHEETS: GN-01, GN-02, GN-03, SD-01 - SD-04A, SS-02 - SS-05, W-03, WA-01 - WA-04A

RELATED PERMIT NUMBER TABLE	
PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

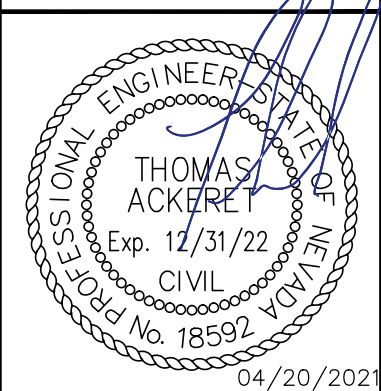
REVISED STREET NAME TABLE

OLD STREET NAME	NEW STREET NAME
"NORTH DRIVEWAY"	RESORTS WORLD AVENUE
"SOUTH DRIVEWAY"	GOH TONG WAY
RESORTS WORLD DRIVE	GENTING BOULEVARD

No.	REVISIONS	DATE	BY
10	LVB-GENTING INTERSECTION REVISION	04/20/2021	RH
9	RWLV RELATED IMPROVEMENT REV	12/28/2020	KH
7	RWLV RELATED IMPROVEMENT REV	09/04/2020	KH
6	RWLV FUTURE CAISSON LOCATION	07/24/2020	KH
4	REVISED PER REVISION No. 4	2/18/2020	KH
2	REVISED PER REVISION No. 2	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

Kimley-Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



KHA PROJECT	DATE	AS SHOWN	DESIGNED BY	DRAWN BY	CHECKED BY
092755002	10/23/2019	TEA	SWM	RAK	

ISSUED FOR CONSTRUCTION

COVER SHEET

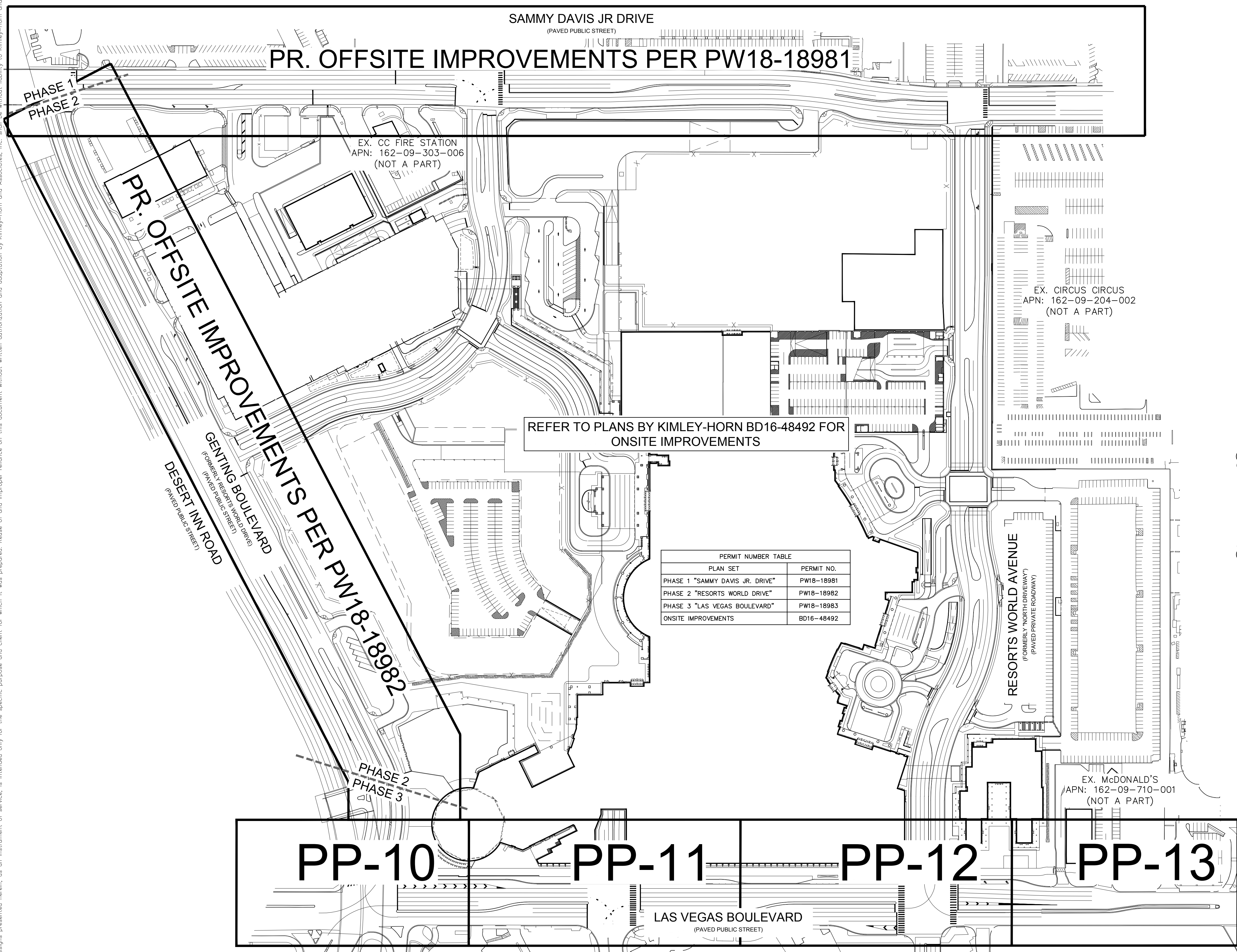
RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY
NEVADA

SHEET NUMBER
GN-01

Plotted By: Leo-Sugbar, Kellee_Sheet_Set:Kha_Layout:GN-01 K:\LAV_Civil\092755002-Resorts World LV_Plan\CAD_Plan\Sheets\Bid_Alternate\092755002-GN.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
PH 1-5-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE)

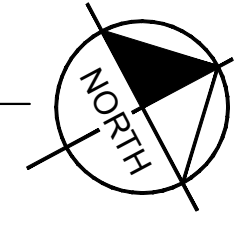
Plotted By: Leo-Sugihara, Killee - Sheet Set: KHA - Layout: GN-03 - K:\LAV_Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bid Alternates\092755002-GN.dwg
 This document, together with the concepts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and imprecise reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



OVERALL SITE PLAN
SCALE: NTS

PERMIT NUMBER TABLE	
PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

REFER TO PLANS BY KIMLEY-HORN BD16-48492 FOR ONSITE IMPROVEMENTS



APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY S. KAMOJAJALA
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE _____

SHEET INDEX

SHEET NO.	SHEET TITLE	REV. NO.																			
		1	2	3	4	6	7	9	10												
GN-01	COVER SHEET																				
GN-02	GENERAL NOTES, LEGEND, & ABBREVIATIONS																				
GN-03	SHEET INDEX & OVERALL SITE PLAN																				
GN-04	GENERAL NOTES SHEET 2																				
TY-03	TYPICAL SECTIONS - LAS VEGAS BLVD																				
DM-05	DEMOLITION PLAN - SHEET 5																				
DM-06	DEMOLITION PLAN - SHEET 6																				
HC-00	OVERALL HORIZONTAL CONTROL PLAN																				
HC-05	HORIZONTAL CONTROL PLAN - SHEET 5																				
HC-06	HORIZONTAL CONTROL PLAN - SHEET 6																				
HC-07	LINE & CURVE TABLE																				
PP-10	PLAN & PROFILE - LVB STA 267+00 - 272+50																				
PP-11	PLAN & PROFILE - LVB STA 272+50 - 278+50																				
PP-12	PLAN & PROFILE - LVB STA 278+50 - 284+50																				
PP-13	PLAN & PROFILE - LVB STA 284+50 - 287+00																				
DT-03	OFFSITE GRADING DETAILS - SHEET 3																				
DT-04	OFFSITE GRADING DETAILS - SHEET 4																				
SD-01	LAS VEGAS BLVD - SD S01 STA 1+00 - 6+00																				
SD-02	LAS VEGAS BLVD - SD N01 STA 1+00 - 6+00																				
SD-03	LAS VEGAS BLVD - SD N01 STA 6+00 - 10+00																				
SD-04	LAS VEGAS BLVD - SD LATERAL PROFILES																				
SD-04A	LAS VEGAS BLVD - SD LATERAL PROFILES																				
SD-08	STORM DRAIN DETAILS																				
JS-01	JUNCTION STRUCTURE DETAILS - SHEET 1																				
JS-02	JUNCTION STRUCTURE DETAILS - SHEET 2																				
JS-03	JUNCTION STRUCTURE DETAILS - SHEET 3																				
SS-02	LAS VEGAS BLVD - SANITARY SEWER PLAN & PROFILE SHEET																				
SS-03	LAS VEGAS BLVD - SANITARY SEWER PLAN & PROFILE SHEET																				
SS-04	LAS VEGAS BLVD - SANITARY SEWER ABANDONMENT PLAN																				
SS-05	LAS VEGAS BLVD - SANITARY SEWER ABANDONMENT PLAN																				
W-03	LAS VEGAS BLVD - WATER PLAN & PROFILE SHEET																				
TS-01	OVERALL TRAFFIC SIGNAL PLAN																				
TS-02	TRAFFIC SIGNAL GENERAL NOTES																				
TS-11	TRAFFIC SIGNAL PLAN LAS VEGAS BLVD - RESORTS WORLD DR																				
TS-12	SIGNAL SCHEDULES LAS VEGAS BLVD - RESORTS WORLD DR																				
TS-13	TRAFFIC SIGNAL PLAN LAS VEGAS BLVD - CONVENTION CENTER																				
TS-14	SIGNAL SCHEDULES LAS VEGAS BLVD - CONVENTION CENTER																				
TS-15	TRAFFIC SIGNAL PLAN LAS VEGAS BLVD - 'NORTH DRIVEWAY'																				
TS-16	SIGNAL SCHEDULES LAS VEGAS BLVD - 'NORTH DRIVEWAY'																				
TS-17	TRAFFIC SIGNAL DETAILS																				
TS-18	LAS VEGAS BLVD OVERHEAD SIGN SHEET 1																				
TS-19	LAS VEGAS BLVD OVERHEAD SIGN SHEET 2																				
WA-01	LAS VEGAS BLVD WATER MAIN PLAN & PROFILE																				
WA-02	LAS VEGAS BLVD WATER MAIN PLAN & PROFILE																				
WA-03	LAS VEGAS BLVD WATER MAIN PLAN & PROFILE																				
WA-04	LAS VEGAS BLVD WATER MAIN PLAN & PROFILE																				
WA-04A	LAS VEGAS BLVD WATER MAIN PLAN & PROFILE																				
WA-05	LAS VEGAS BLVD WATER MAIN PLAN & PROFILE																				
SS.01	APPROACH SLAB DETAILS																				
SS.02	APPROACH SLAB DETAILS																				
LS-01	LANDSCAPE COVER																				
LS-02	LANDSCAPE																				
LS-03	LANDSCAPE																				
LS-04	LANDSCAPE																				
LS-05	LANDSCAPE																				
IR-01	LANDSCAPE IRRIGATION																				
IR-02	LANDSCAPE IRRIGATION																				
IR-03	LANDSCAPE IRRIGATION																				
IR-04	LANDSCAPE IRRIGATION																				
IR-05	LANDSCAPE IRRIGATION																				
IR-06	LANDSCAPE IRRIGATION																				
LL-01	LANDSCAPE LIGHTING																				
LL-02	LANDSCAPE LIGHTING																				
LL-03	LANDSCAPE LIGHTING																				
LL-04	LANDSCAPE LIGHTING																				
NV ENERGY SHEET 1 OF 4	RESORTS WORLD TRAFFIC SIGNALS - PHASE 3																				
NV ENERGY SHEET 2 OF 4	RESORTS WORLD TRAFFIC SIGNALS - PHASE 3																				
NV ENERGY SHEET 3 OF 4	RESORTS WORLD TRAFFIC SIGNALS - PHASE 3																				
NV ENERGY SHEET 4 OF 4	RESORTS WORLD TRAFFIC SIGNALS - PHASE 3																				

KHA PROJECT
092755002
DATE
10/23/2019
SCALE
AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY
ISSUED FOR CONSTRUCTION

THOMAS A. KILLEE
Exp. 12/31/22
CIVIL ENGINEER
STATE OF NEVADA
LICENSE NO. 18592

REVISIONS
DATE
BY
PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA
HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE)

SHEET INDEX &
OVERALL SITE PLAN

GN-03

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA
HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE)

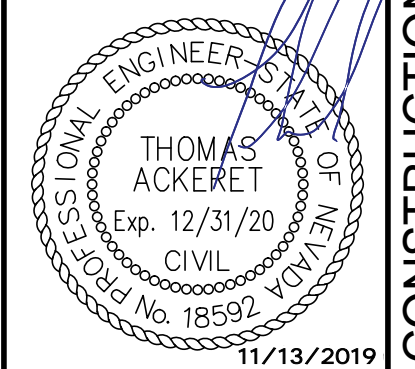
Plotted By: Pflernert, Griffin - Sheet - Set: Khs - Layout: GN-04 - k:\AV-Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bid Alternates\092755002-GN.dwg
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LAS VEGAS BOULEVARD PERMIT CONDITIONS

1. APPLICANTS SHALL OBTAIN A COPY OF THE MITIGATION POLICY FOR THE LAS VEGAS STRIP BEAUTIFICATION PROJECT. CONTACT TERRY JOHNSON (702) 455-7554 OF THE CLARK COUNTY CONSTRUCTION MANAGEMENT DIVISION FOR ADDITIONAL INFORMATION REGARDING THIS DOCUMENT.
2. PEDESTRIAN SAFETY MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TEMPORARY FENCING AND PORTABLE CONCRETE BARRIER RAIL IS REQUIRED TO SEPARATE THE WORK FROM THE PUBLIC.
3. APPLICANT SHALL MAINTAIN THE CURRENT NUMBER OF TRAVEL LANES AT ALL TIMES UNLESS SPECIFICALLY ALLOWED BY AN APPROVED TRAFFIC CONTROL PLAN.
4. CLARK COUNTY CONSTRUCTION MANAGEMENT OR CLARK COUNTY DEVELOPMENT SERVICES MUST APPROVE A TRAFFIC CONTROL PLAN IN ADVANCE. A COPY OF ALL APPROVED TRAFFIC CONTROL PLANS FOR LAS VEGAS BLVD. BETWEEN SAGARA AND SUNSET SHALL BE FORWARDED TO CLARK COUNTY CONSTRUCTION MANAGEMENT PRIOR TO THE START OF THAT PROJECT.
5. AT LEAST ONE COPY OF THE APPROVED TRAFFIC CONTROL PLAN SHALL BE KEPT ONSITE AT ALL TIMES.
6. LANDSCAPE MATERIALS ONSITE INCLUDE BUT ARE NOT LIMITED TO, PALM TREES, PLANTS, SEASONAL COLOR, LIGHTING FIXTURES, LIGHTING CONTROLLERS, AND TURF. AS SUCH THEY SHALL REMAIN THE PROPERTY OF THE LAS VEGAS BOULEVARD SPECIAL IMPROVEMENT DISTRICT. NO MATERIALS OR ACCESSORIES SHALL BE REMOVED FROM THE SITE WITHOUT SPECIFIC PERMISSION FROM CLARK COUNTY PUBLIC WORKS.
7. ANY LANDSCAPE AREAS AFFECTED BY THE WORK SHALL BE RESTORED TO A CONDITION THAT IS AS GOOD OR BETTER THAN IT WAS PRIOR TO STARTING THE WORK. THIS RESTORATION INCLUDES THE REPLACEMENT OF ANY PLANT MATERIALS DAMAGED OR DESTROYED AT A SIZE EQUAL TO THE SURROUNDING MATERIALS TO THE SATISFACTION OF THE COUNTY'S REPRESENTATIVE, IN ACCORDANCE WITH THE MITIGATION POLICY.
8. AN INVENTORY OF PLANT MATERIALS AND IRRIGATION SYSTEM COMPONENTS SCHEDULED TO BE REMOVED SHALL BE MADE AND ACCEPTED BY THE COUNTY'S REPRESENTATIVE PRIOR TO THE START OF WORK. THE OFFSITE STORAGE LOCATION OF PLANTS, IRRIGATION, AND LIGHTING COMPONENTS SHALL BE APPROVED BY THE COUNTY'S REPRESENTATIVE PRIOR TO THE START OF REMOVAL.
9. ALL MATERIALS TEMPORARILY REMOVED FROM THE SITE SHALL BE STORED AT A SECURE LOCATION AND SHALL BE APPROPRIATE FOR THE ITEMS. PLANT MATERIALS SHALL BE MAINTAINED IN A NURSERY LIKE SETTING, DAILY CARE AND MONITORING OF PLANT HEALTH MUST BE ACCOMPLISHED.
10. IRRIGATION SYSTEMS AND COMPONENTS WHETHER ABOVE GROUND OR BELOW SHALL NOT BE ALLOWED OUTSIDE OF PLANTING AREAS. GREAT CARE SHALL BE TAKEN TO RESTORE AND DAMAGED IRRIGATION LINES WITHIN THE WORK AREA.
11. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE MATERIALS AND EQUIPMENT ONSITE UNLESS SPECIFICALLY AGREED TO BY THE COUNTY'S REPRESENTATIVE.
12. ALL APPLICATIONS FOR ENCROACHMENT PERMITS FOR WORK ON LAS VEGAS BOULEVARD SHALL HAVE ATTACHED, THREE (4) SETS OF DRAWINGS FOR COUNTY USE AND RETENTION.
13. APPLICANT SHALL PERFORM ALL ONSITE TESTING AND INSPECTION AT APPLICANT'S SOLE EXPENSE. CONTACT TERRY JOHNSON (702) 455-7554 OF THE CLARK COUNTY CONSTRUCTION MANAGEMENT DIVISION AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION FOR TESTING AND INSPECTION REQUIREMENTS AND FREQUENCIES.
14. A PHOTO RECORD (IN DIGITAL FORMAT) THAT SHOWS THE EXISTING CONDITIONS OF THE LANDSCAPING SHALL BE SUBMITTED TO CLARK COUNTY PUBLIC WORKS UPON REQUEST.

REVISIONS	DATE	BY
2	11/13/2019	KH
1	10/23/2019	KH


 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM



KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SIM
CHECKED BY	RAM

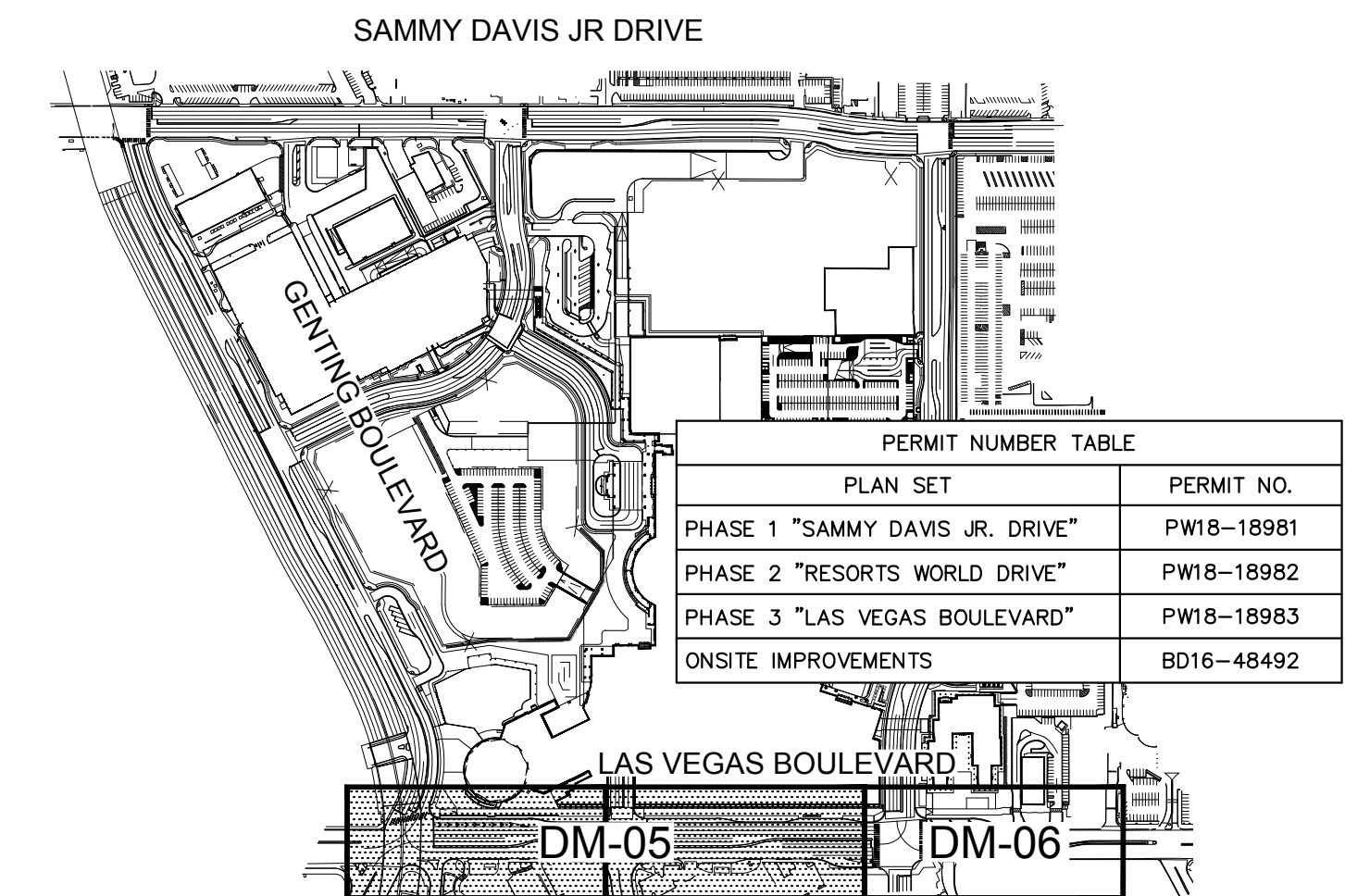
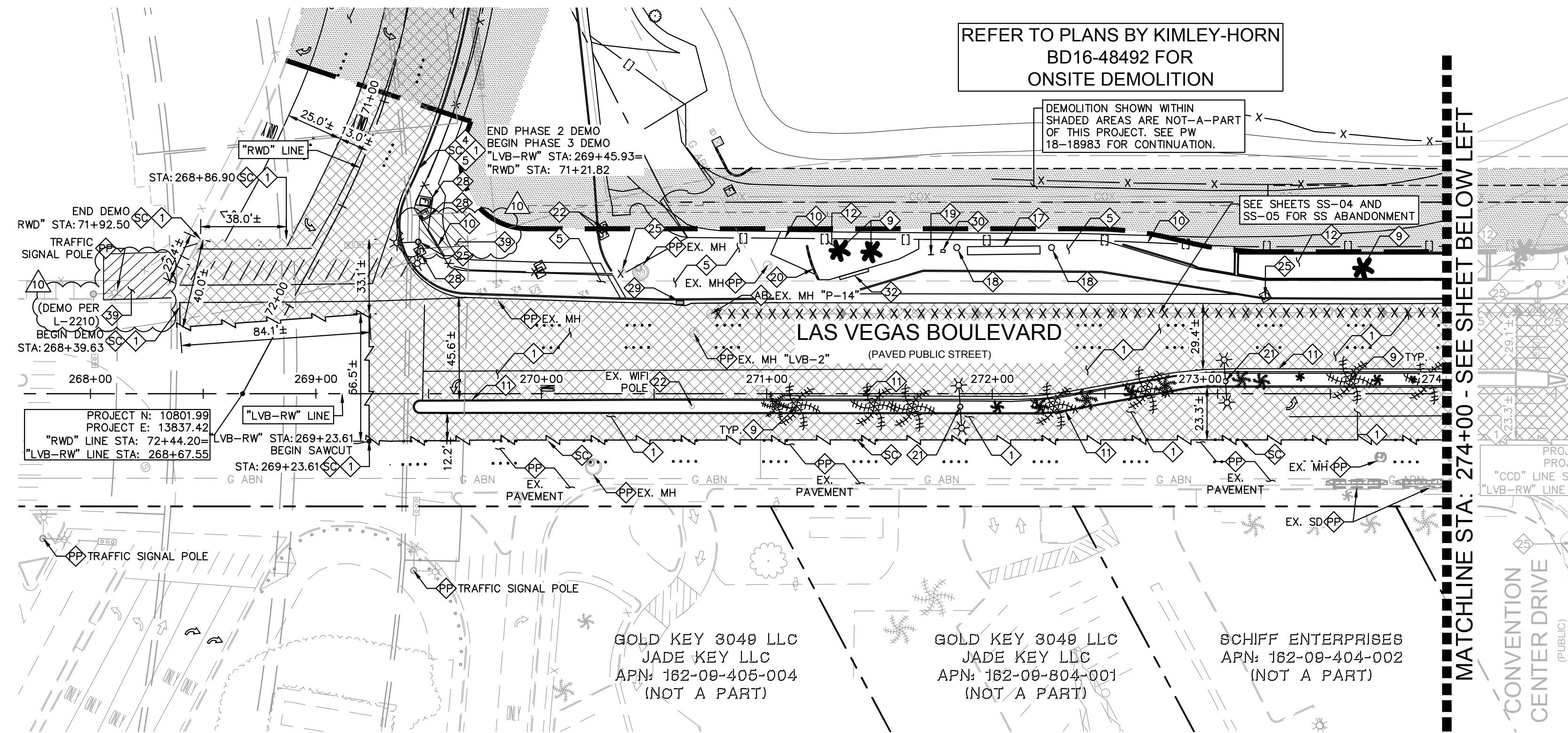
GENERAL NOTES
SHEET 2

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

SHEET NUMBER
GN-04

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 ISSUED FOR CONSTRUCTION
 19-13855 (TDS UPDATE), 18-17163 (TDS UPDATE), 18-10624 (TDS UPDATE)

Plotted By: Leo-Sugihara, Kollie_Sheet_Set:Kha_Layout:DM-05_K:\AV_Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Big_Alternate\092755002-DM.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY MAP
NTS

GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING IMPROVEMENTS SHOWN ON THE PLAN.
- ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO PROTECT IN PLACE, DURING DEMOLITION AND CONSTRUCTION, ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN AS NOTED ON THE PLAN.
- ANY EXISTING STRUCTURE, IMPROVEMENT, PLAN, OR APPURTENANCE TO REMAIN THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION AND PROTECT IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
- ALL DIMENSIONS ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXISTING PAVEMENT MARKINGS LOCATED ALONG THIS PROJECT'S FRONTAGE SHALL BE OBLITERATED. SEE SHEETS SM SHEETS FOR PROPOSED PAVEMENT MARKINGS.
- ALL SIGN REMOVAL AND RELOCATIONS PER SM SHEETS.

DEMOLITION NOTES

- ① REMOVE EXISTING ASPHALT SECTION TO DEPTH NEEDED FOR PROPOSED STRUCTURAL SECTION SHOWN ON TY SHEETS, LIMITS AS NOTED ON PLAN.
- ② REMOVE EXISTING CURB TO NEAREST JOINT, LIMITS AS SHOWN ON PLAN.
- ③ REMOVE EXISTING SIDEWALK TO NEAREST JOINT, LIMITS AS SHOWN ON PLAN.
- ④ CUT, CAP AND REMOVE EXISTING UTILITY PIPE (INCLUDING STRUCTURES AND APPURTENANCES).
- ⑤ REMOVE EXISTING VEGETATION.
- ⑥ REMOVE/RELOCATE EXISTING CONSTRUCTION FENCE (INCLUDING GATES WHERE APPLICABLE). COORDINATE WITH OWNERSHIP FOR LOCATION OF ON-SITE CONSTRUCTION FENCE.
- ⑦ REMOVE EXISTING MEDIAN.
- ⑧ REMOVE EXISTING LANDSCAPE AREA.
- ⑨ REMOVE/RELOCATE EXISTING FIRE HYDRANT PER W SHEETS.
- ⑩ REMOVE EXISTING BUS SHELTER, AND RETURN TO RTC.
- ⑪ REMOVE EXISTING TRASH CAN, AND RETURN TO RTC.
- ⑫ REMOVE EXISTING SIGN.
- ⑬ REMOVE EXISTING WALL.
- ⑭ REMOVE/RELOCATE EXISTING STREET LIGHT PER L-2210 PLANS.
- ⑮ CONTRACTOR SHALL COORDINATE THE RELOCATION OF EX UTILITY.
- ⑯ REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TS SHEETS.
- ⑰ REMOVE/RELOCATE EXISTING NV ENERGY EQUIPMENT PER NV ENERGY PLANS.
- ⑱ REMOVE EXISTING STORM DRAIN INLET. SEE PP-SHEETS FOR MANHOLE INSTALLATION.
- ⑲ REMOVE EXISTING TICKET VENDING MACHINE. RELOCATE TO NEW BUS STOP LOCATION PER RTC AND FAST REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH RTC PRIOR TO REMOVING.
- ⑳ RELOCATE EXISTING NEWS RACK AND CURB MEDALION. CONTRACTOR SHALL COORDINATE WITH CLARK COUNTY PUBLIC WORKS PRIOR TO REMOVING.
- ㉑ REMOVE AND ABANDON EXISTING FDC.
- ㉒ SAWCUT AND REMOVE EXISTING APPROACH SLAB PER PP-10, S05.01, AND S05.02.
- ㉓ ABANDON IN PLACE
- ㉔ PROTECT IN PLACE
- ㉕ SAWCUT LINE/MATCH EXISTING

CCWRD APPROVAL

ORIGINALLY SIGNED BY: JOHNNY ALHWAYEK 11/25/2019
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
 CCWRD PIPES #19,349.
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

LEGEND



BENCHMARK
 CLARK COUNTY VERTICAL CONTROL
 BENCHMARK NO. "7C11 95W6"

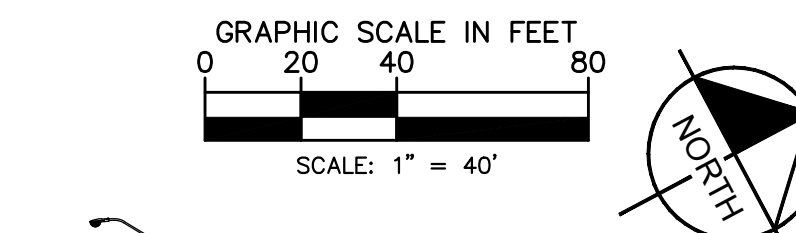
RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
 2091.40 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

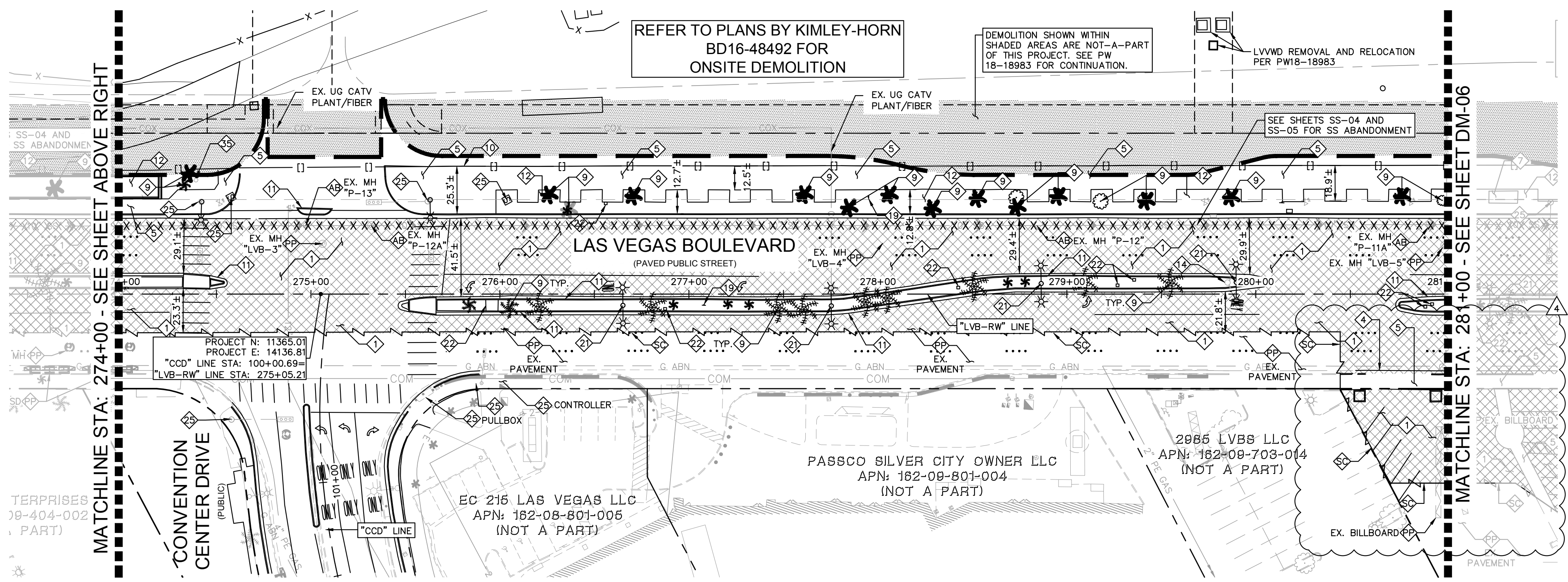
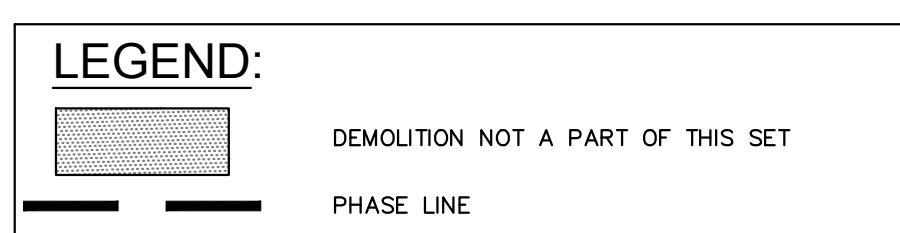
BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.



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

Call before you UnderGround
 1-702-432-5300
 Call Before You Overhead
 1-800-227-2600 1-702-227-2929



NOTE:
 SEE L-2210 FOR ADDITIONAL PROJECT DEMOLITION BEYOND LIMITS SHOWN THIS PLAN.

ORIGINALLY SIGNED BY: MATTHEW PEDAZA 11/18/2019
 SOUTHWEST GAS CORPORATION DATE

TO	FROM	REVISION	DATE	BY
10	LVB-GENTING INTERSECTION	REVISION	04/20/2021	KH
4	REVISED PER REVISION No. 4		2/18/2020	KH
2	REVISED PER REVISION No. 2		11/13/2019	KH
0	ISSUED FOR CONSTRUCTION		10/23/2019	KH

Kimley-Horn
 © 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

Professional Engineer Seal for Thomas Ackert, License No. 18592, State of Nevada, Exp. 12/31/22.

DEMOLITION PLAN - SHEET 5

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210)
 PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY, NEVADA

SHEET NUMBER
DM-05

PH 1-PW18-18983, PH 2-PW18-18982, PH 3-PW18-18983
 ISSUED FOR CONSTRUCTION
 TDS #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE)

Plotted By: Pflanz, Griffin, Sheet: S-1100-00, Layout: HC-00, K:\LAV-Civil\092755002-Resorts World LV PH1\CAD\PlanSheets\Bid Alternates\092755002-HC-Over.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PROJECT N: 11092.48
 PROJECT E: 11685.33
 "SDJ" LINE STA: 100+00.00
 "RWD" LINE STA: 50+00.00

APN: 162-09-303-006
 (NOT A PART)

APN: 162-09-204-002
 (NOT A PART)

APN: 162-09-710-001
 (NOT A PART)

APN: 162-09-701-001
 (NOT A PART)

PROJECT N: 10801.99
 PROJECT E: 13837.42
 "RWD" LINE STA: 72+44.20
 "LVB-RW" LINE STA: 268+67.55

LINE & CURVE DATA

LINE	LENGTH	BEARING
L9	745.64	N27°58'41.00"E
L10	745.64	N27°58'41.00"E
L11	1066.03	N27°59'14.00"E
L12	693.37	N27°59'14.00"E
L15	66.05	N27°58'49.00"E
L16	995.44	S88°42'01.54"E
L17	335.82	S88°42'01.54"E
L19	6122.65	N28°00'06.00"E
L20	84.13	S33°56'53.66"E

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	1265.12'	221.98'	N33°00'50"E	221.70'	10°03'12"	111.28'
C2	1345.12'	236.18'	N33°00'38"E	235.88'	10°03'37"	118.40'
C3	852.00'	274.75'	S79°13'46"E	273.56'	18°28'35"	138.58'
C5	1424.75'	116.35'	N88°57'36"E	116.32'	4°40'44"	58.21'
C6	1575.25'	128.65'	N88°57'37"E	128.61'	4°40'46"	64.36'
C8	326.00'	309.06'	S61°06'27"E	297.62'	54°19'07"	167.25'

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7011 93WWS"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE PC OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON
 NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

RIGHT-OF-WAY AND EASEMENTS

- 100 EX. R/W
- 101 PR. R/W PER FINAL MAP #NFM 19-500109
- 101A PR. R/W PER DOC # 20190916-0002444
- 102 PR. PEDESTRIAN ACCESS, TRAFFIC CONTROL DEVICE, AND STREET LIGHT EASEMENT PER FINAL MAP DOC #NFM 19-500109.
- 102A EX. PEDESTRIAN ACCESS EASEMENT PER BOOK 137 OF PLATS, PAGE 48.
- 103 EX. LVWD EASEMENT PER DOC #20080606-0001901 TO BE RELINQUISHED PER DOC # _____
- 104 PR. TRAFFIC SIGNAL EQUIPMENT EASEMENT PER FINAL MAP DOC NFM 19-500109.
- 104B PR. TRAFFIC SIGNAL EQUIPMENT EASEMENT PER DOC # 20190916-0002444
- 105 PR. LVWD EASEMENT PER DOC # 20191017-0001107
- 11A PR. PEDESTRIAN ACCESS, TRAFFIC CONTROL DEVICE, AND SL EASEMENT PER DOC # 20190916-0002444
- 120 PR. BOLLARD EASEMENT PER FINAL MAP #NFM-19-500109.

Kimley-Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

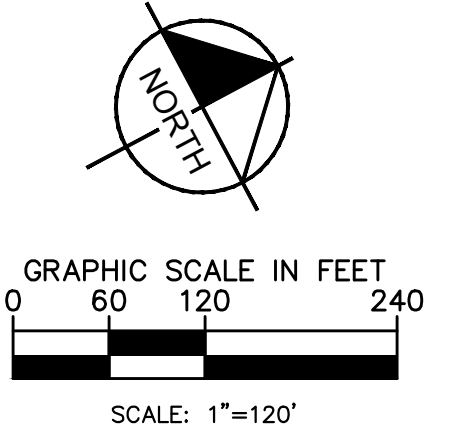
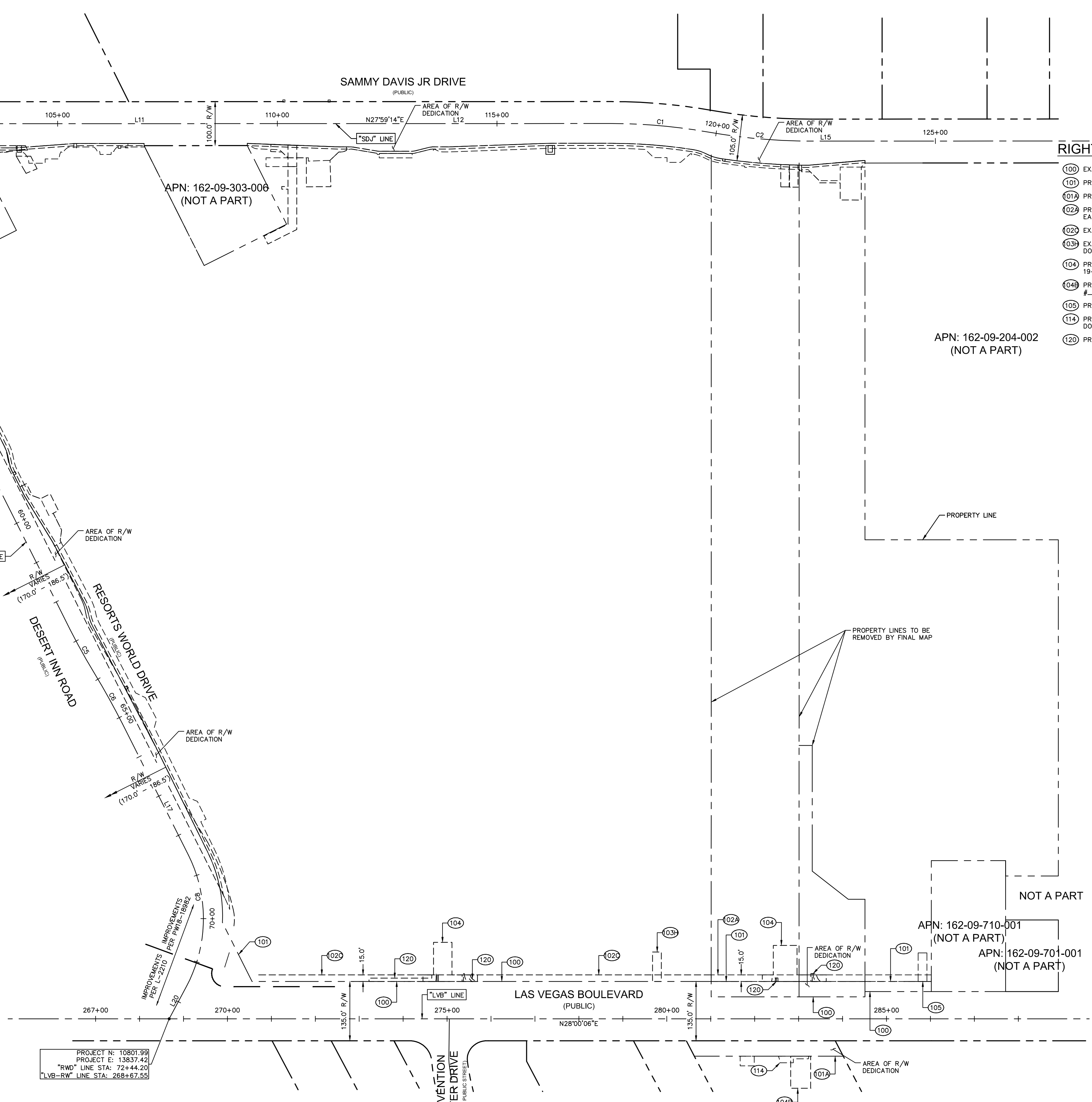
PROFESSIONAL ENGINEER
 THOMAS ACKERET
 Exp. 12/31/20
 CIVIL
 LICENSE NO. 18592

KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SIM
CHECKED BY	RAM

**OVERALL
 HORIZONTAL
 CONTROL PLAN**

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY, NEVADA

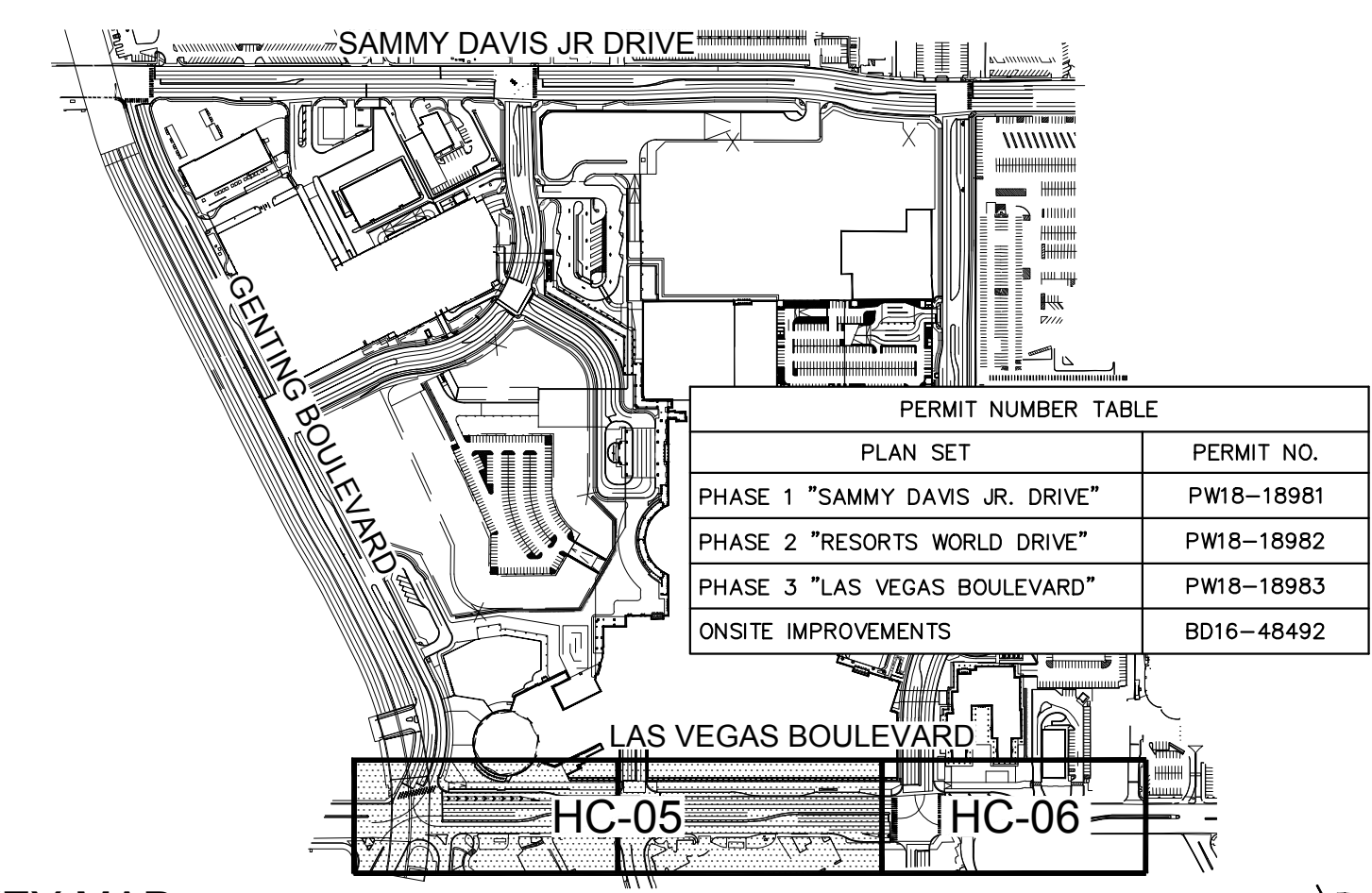
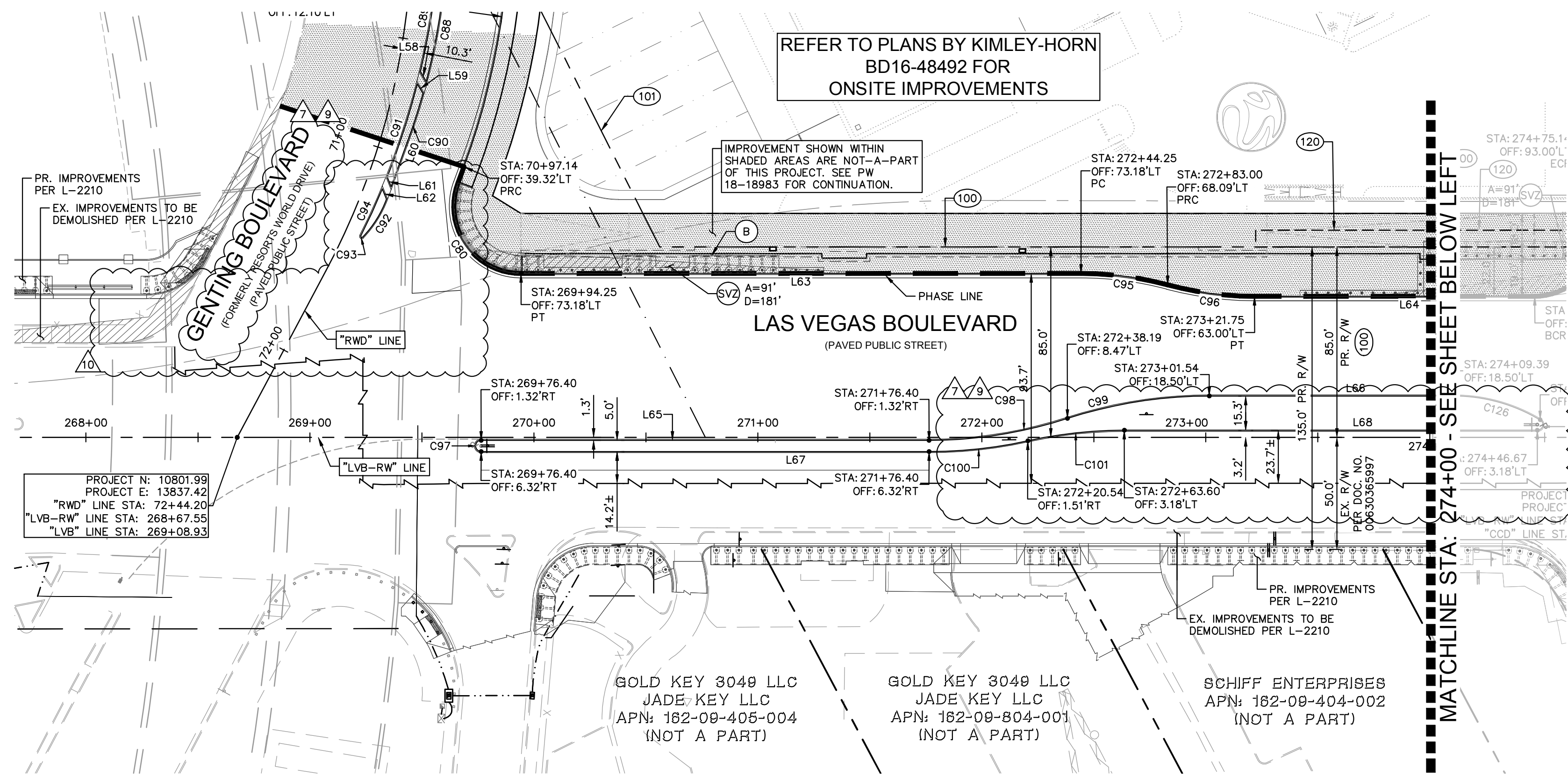
SHEET NUMBER
HC-00
 SHEET 288 OF 345



Call before you Dig
 Avoid calling underground utility lines. It's costly.
Call Before You Dig
 1-702-432-5300
 1-800-227-2600
Call Before You Overhead
 1-702-227-2929

PH 1-PW18-1898.1, PH 2-PW18-1898.2, PH 3-PW18-1898.3
 ISSUED FOR CONSTRUCTION
 19-13855 (TDS UPDATE), 19-13855 (TDS UPDATE), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE)

Plotted By: Leo-Sugihara, Kollie Sheet Set: K:\LAV-Civil\092755002-Resorts World LV PH1\CAD\PlanSheets\Bid Alternate\092755002-HC.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improver reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY MAP

NTS

GENERAL NOTES

- ALL DIMENSIONS SHOWN TO THE BACK OF CURB UNLESS OTHERWISE NOTED ON THE PLAN.
- R/W LINES SHOWN ARE BASED ON LINWORK PROVIDED BY HORIZON SURVEYS AND THEIR PENDING FINAL MAP.
- REFER TO SHEET HC-07 FOR LINE AND CURVE TABLES.

RIGHT-OF-WAY AND EASEMENTS

- (100) EX. R/W
- (101) PR. R/W PER FINAL MAP #NFM 19-500109
- (101A) PR. R/W PER DOC #20190916-0002444.
- (120) PR. BOLLARD EASEMENT PER FINAL MAP #NFM-19-500109.

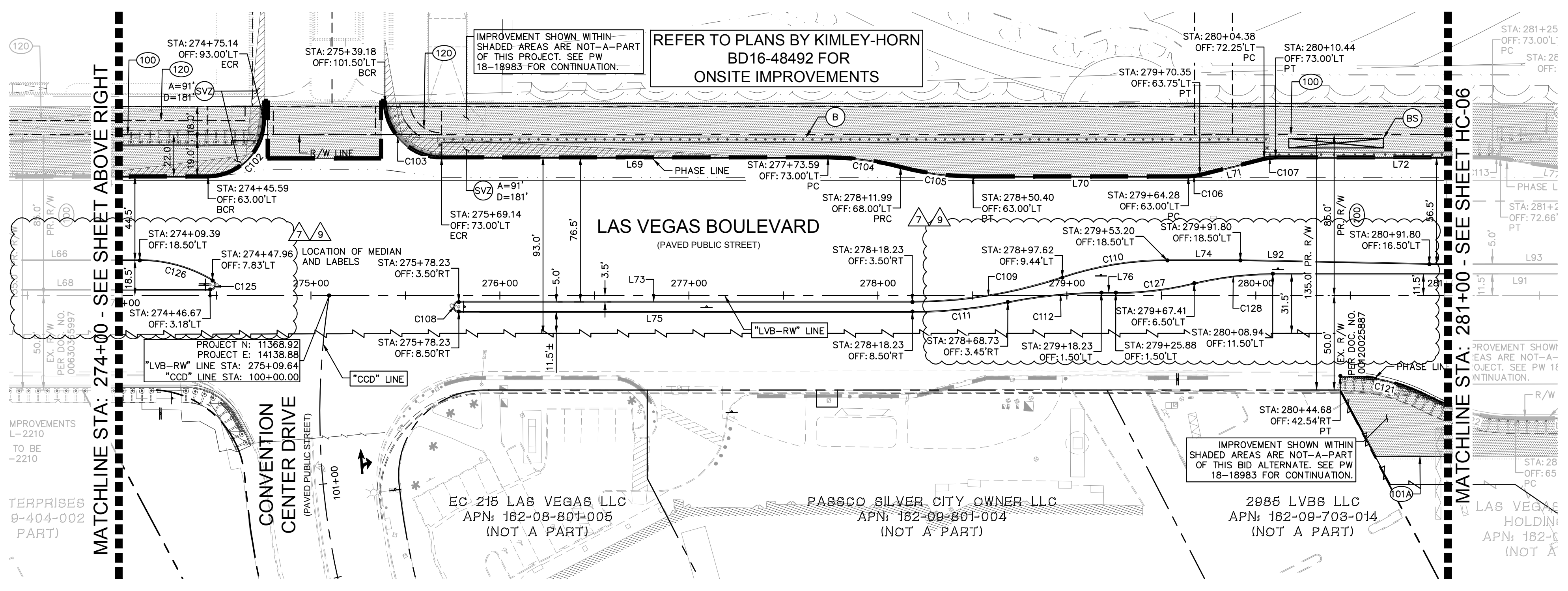
HORIZONTAL CONTROL NOTE

- (B) PR. BOLLARDS PER L-2210 PEDESTRIAN PROTECTION.
- (BS) PR. BUS SHELTER
- (SVZ) SIGHT VISIBILITY ZONE PER CCAUSD No. 201.2, LENGTH AS NOTED ON PLAN.

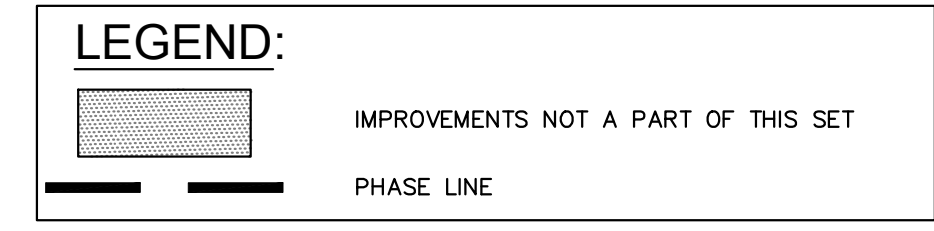
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SMW
CHECKED BY	RAK

HORIZONTAL CONTROL PLAN - SHEET 5



SVZ NOTE:
 NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE 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.



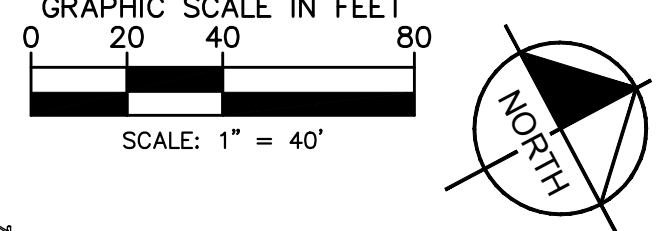
BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 9SW86"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET

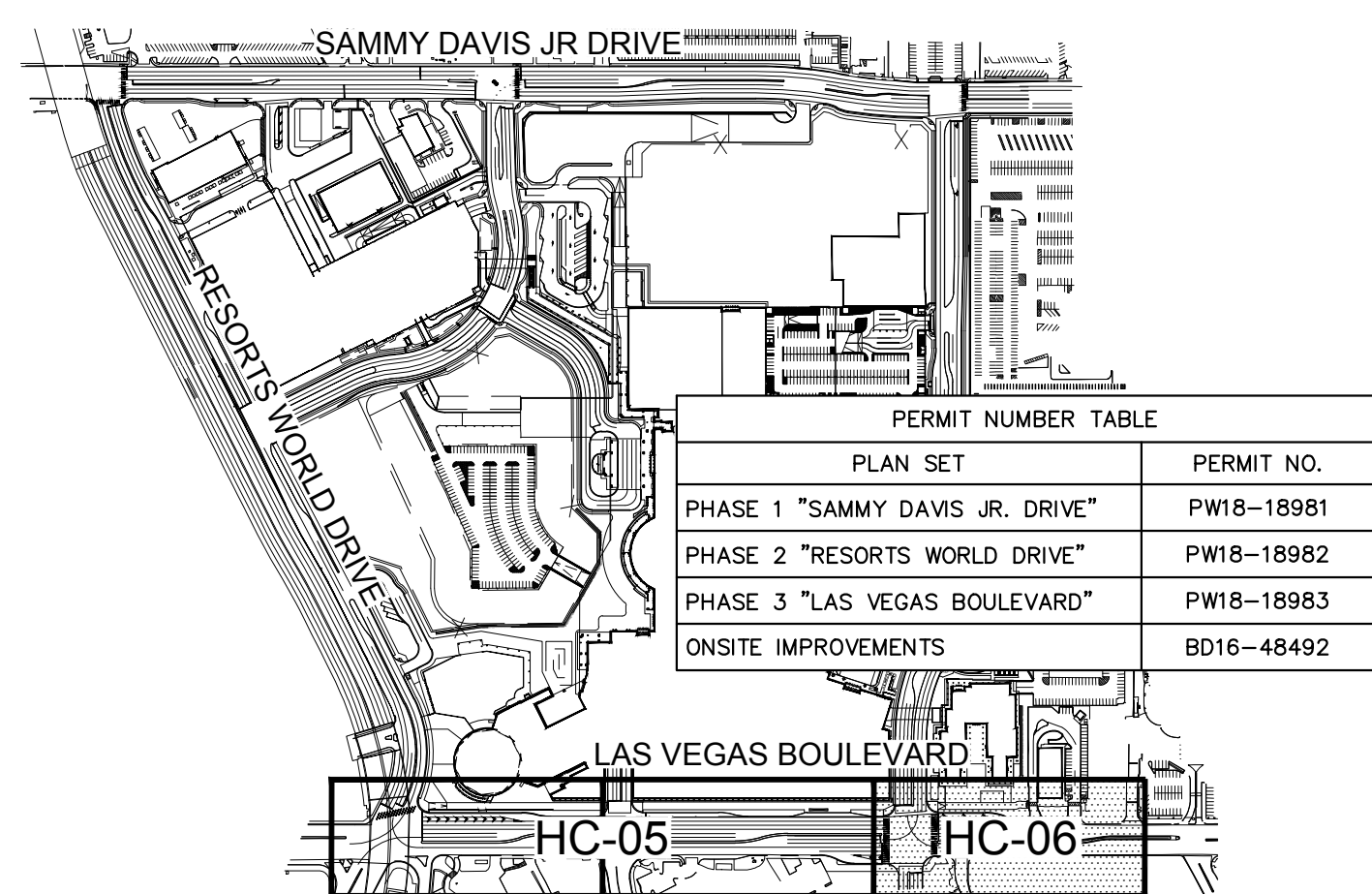
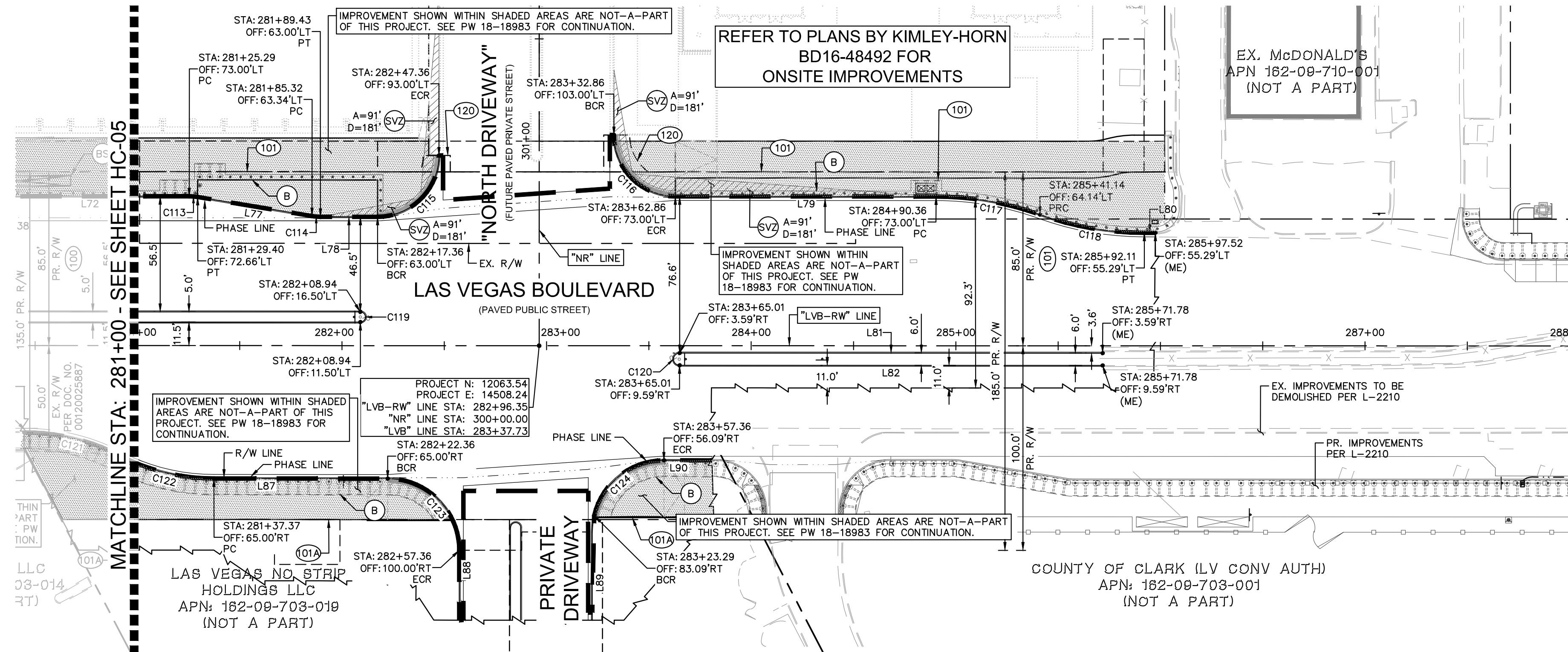


Call before you Dig
 Call before you UnderGround
 Call before you Overhead
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210)
 PREPARED FOR RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY, NEVADA
 SHEET NUMBER HC-05

ISSUED FOR CONSTRUCTION
 DATE: 04/20/2021
 REVISIONS: 09/04/2020, 09/04/2020, 09/04/2020, 11/13/2019, 10/23/2019
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

Plotted By: Pflanz, Griffin Sheet: S:\Info - Layout: HC-06 K:\LAV-Civil\092755002-Resorts World LV\Plan\CAD\PlanSheets\Bid Alternates\092755002-HC.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



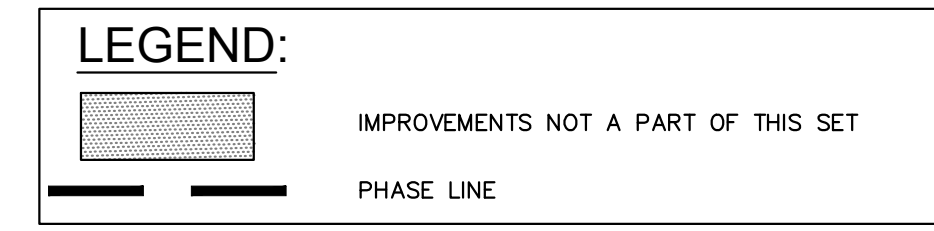
KEY MAP
 NTS

- GENERAL NOTES**
- ALL DIMENSIONS SHOWN TO THE BACK OF CURB UNLESS OTHERWISE NOTED ON THE PLAN.
 - R/W LINES SHOWN ARE BASED ON LINEWORK PROVIDED BY HORIZON SURVEYS AND THEIR PENDING FINAL MAP.
 - REFER TO SHEET HC-07 FOR LINE AND CURVE TABLES.

- RIGHT-OF-WAY AND EASEMENTS**
- (100) EX. R/W
 - (101) PR. R/W PER FINAL MAP #NFM 19-500109
 - (101A) PR. R/W PER DOC #20190916-0002444
 - (120) PR. BOLLARD EASEMENT PER FINAL MAP #NFM-19-500109.

- HORIZONTAL CONTROL NOTE**
- (B) PR. BOLLARDS PER L-2210 PEDESTRIAN PROTECTION.
 - (BS) PR. BUS SHELTER
 - (SVZ) SIGHT VISIBILITY ZONE PER CCAUSD No. 201.2, LENGTH AS NOTED ON PLAN.

SVZ NOTE:
 NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE 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.



BENCHMARK
 CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 95W6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING
 NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.



Call before you Dig
 Call before you UnderGround
 Call Before You Overhead

NO.	REVISIONS	DATE	BY
2	REVISED PER REVISION NO. 2	11/13/2019	KH
1	ISSUED FOR CONSTRUCTION	10/23/2019	KH

Kimley & Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

Professional Engineer Seal for Thomas Ackert, State of Nevada, License No. 18592, Exp. 12/31/2020.

KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SIM
CHECKED BY	RAM

HORIZONTAL CONTROL PLAN - SHEET 6

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

SHEET NUMBER
HC-06

DATE: 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE)
 SHEET 290 OF 345

Plotted By: Leo-Sugihara, Kallie - Sheet Set: KHA - Layout: HC-07 - K:\LAV_Civil\092755002-Resorts World LV_Plan\CAD\PlanSheets\Bid Alternates\092755002-HC.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

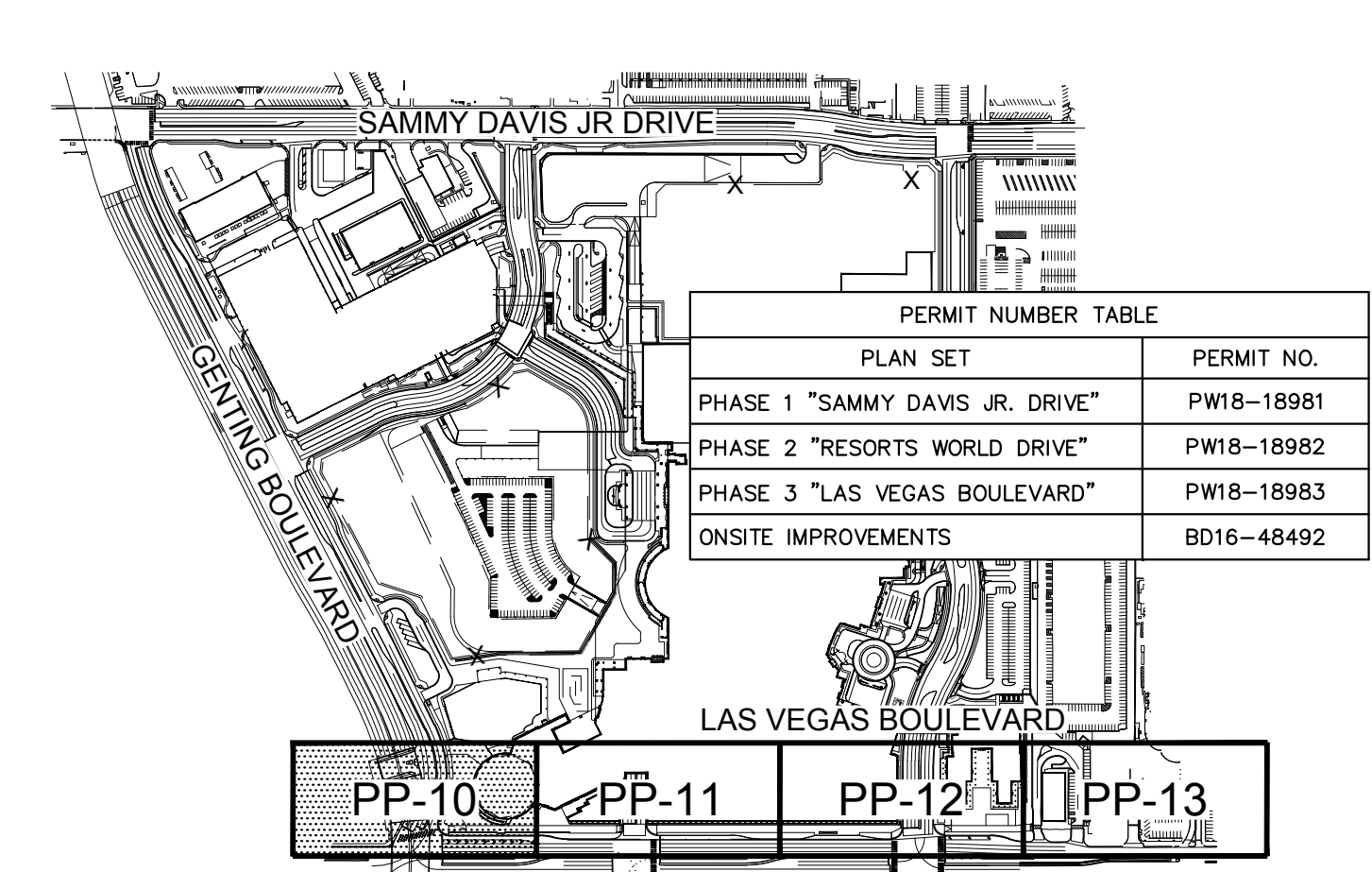
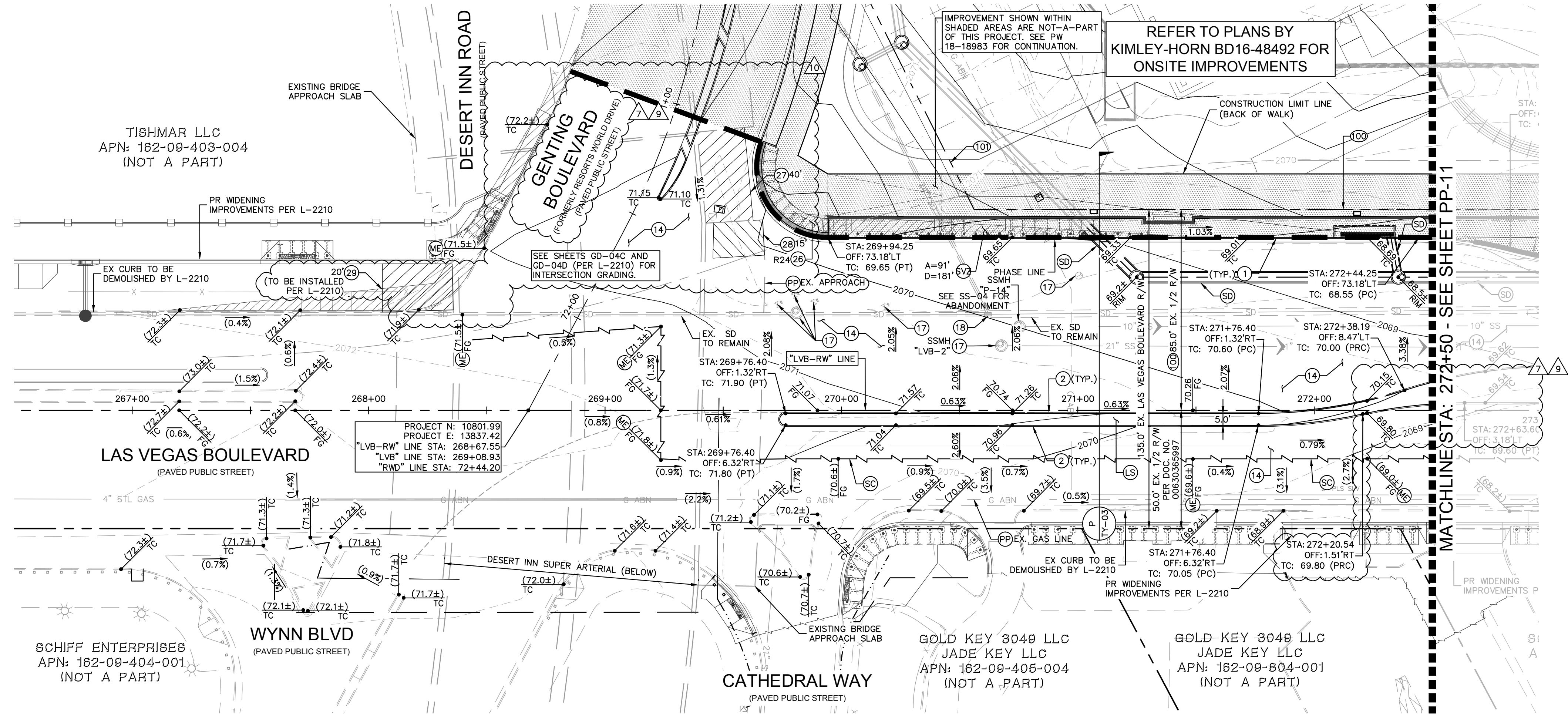
LINE TABLE		
LINE	LENGTH	BEARING
L1	319.85	S27°59'14.00"W
L2	371.25	N27°59'14.00"E
L3	143.04	S27°59'14.00"W
L4	100.00	S27°59'14.00"W
L5	33.03	S27°58'20.72"W
L6	50.23	S27°58'20.72"W
L7	52.63	S27°59'14.00"W
L8	72.59	N29°34'26.71"E
L9	73.85	N30°11'11.39"E
L10	27.89	N27°59'14.00"E
L11	56.69	N37°26'58.36"E
L12	74.85	N27°59'14.00"E
L13	35.08	N13°57'03.52"E
L14	26.16	N27°59'14.00"E
L15	225.98	N25°57'30.49"E
L16	154.45	N27°59'14.00"E
L17	250.00	S27°59'14.00"W
L18	250.00	N27°59'14.00"E
L19	3.56	S27°46'04.61"W
L20	79.04	S33°06'06.56"W
L21	51.14	S28°18'14.94"W
L22	10.36	N27°59'14.00"E
L23	164.46	S27°59'25.93"W
L24	164.46	N27°59'25.93"E
L25	62.21	S33°13'00.43"W
L26	192.90	S27°58'49.00"W
L27	136.59	S26°21'23.89"W
L28	136.50	N89°19'05.67"E
L29	27.60	S88°43'02.00"E
L30	27.30	N88°43'02.00"W
L31	22.47	N12°33'30.00"E
L32	121.02	N88°43'02.00"W
L33	12.38	S12°32'24.00"W
L34	150.00	S88°43'02.00"E
L35	61.12	S88°43'02.00"E
L36	165.03	S88°43'02.00"E
L37	165.33	N88°43'02.00"W
L38	274.23	S88°43'02.00"E
L39	186.38	N89°02'00.66"W
L40	290.51	S88°43'02.00"E
L41	348.32	S89°02'00.66"E
L42	3.96	S10°57'59.34"W
L43	4.01	N05°57'59.34"E
L44	150.00	S89°35'27.42"E
L45	229.16	S89°35'27.42"E
L46	386.48	N89°35'27.42"W
L47	144.67	S89°35'27.42"E
L48	150.00	S89°35'27.42"E
L49	133.63	S88°44'22.99"E
L50	160.35	S87°14'54.47"E
L51	178.82	S88°16'00.90"E
L52	25.00	S14°33'59.10"W
L53	253.39	N88°16'00.90"W
L54	5.05	N78°44'53.79"E
L55	135.64	S88°16'00.90"E
L56	40.95	S88°16'00.90"E
L57	5.06	S78°44'53.79"E
L58	5.16	N87°48'06.21"E
L59	4.98	S87°48'06.21"W
L60	19.58	N41°43'58.94"W

LINE TABLE		
LINE	LENGTH	BEARING
L61	4.64	S83°47'07.20"E
L62	4.92	S83°47'07.20"E
L63	250.00	N28°00'06.00"E
L64	123.84	N28°00'06.00"E
L65	200.00	S28°00'06.00"W
L66	107.86	S28°00'06.00"W
L67	200.00	N28°00'06.00"E
L68	183.10	N28°00'06.00"E
L69	204.44	N28°00'05.19"E
L70	113.89	N28°00'06.00"E
L71	35.08	N13°57'55.52"E
L72	114.85	N28°00'06.00"E
L73	240.00	N28°00'06.00"E
L74	38.61	N28°00'06.00"E
L75	240.00	S28°00'06.00"W
L76	7.65	N28°00'06.00"E
L77	56.69	N37°27'50.36"E
L78	27.93	N28°00'06.00"E
L79	127.00	N28°00'06.00"E
L80	5.41	N27°55'40.73"E
L81	206.78	S28°00'06.00"W
L82	206.78	N28°00'06.00"E
L84	53.92	N89°35'27.42"W
L85	53.61	S89°35'41.29"E
L86	64.13	S88°16'00.90"E
L87	84.99	N28°00'06.00"E
L88	34.20	S61°59'54.00"E
L89	50.42	N61°59'54.00"W
L90	23.45	N28°00'06.00"E
L91	200.00	S28°00'06.00"W
L92	100.02	N29°08'50.75"E
L93	117.14	N28°00'06.00"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	1.50'	4.71'	S62°00'46"E	3.00'	180°00'00"	INFINITY
C2	150.00'	38.84'	S20°34'11"W	38.73'	14°50'06"	19.53'
C3	150.00'	34.40'	S19°43'18"W	34.32'	13°08'20"	17.27'
C4	1.00'	2.88'	N71°07'22"W	1.98'	165°04'21"	7.63'
C5	50.00'	20.68'	N0°29'07"W	20.53'	23°41'50"	10.49'
C6	5.00'	3.52'	N7°49'36"E	3.45'	40°19'16"	1.84'
C7	30.00'	55.35'	S24°52'22"E	47.83'	105°43'11"	39.61'
C8	150.00'	38.84'	S35°24'17"W	38.73'	14°50'06"	19.53'
C9	150.00'	38.84'	S35°24'17"W	38.73'	14°50'06"	19.53'
C10	35.00'	54.97'	S72°58'55"W	49.49'	89°59'22"	34.99'
C11	35.00'	54.98'	S17°01'31"E	49.50'	89°59'44"	35.00'
C12	25.00'	39.27'	S72°58'21"W	35.36'	90°00'00"	25.00'
C13	25.00'	39.27'	S17°01'39"E	35.36'	90°00'00"	25.00'
C14	2.00'	4.30'	S88°45'52"E	3.52'	123°19'22"	3.71'
C15	5.00'	4.81'	S0°26'31"W	4.62'	55°05'26"	2.61'
C16	50.00'	18.63'	S38°39'39"W	18.52'	21°20'51"	9.42'
C17	2.00'	5.59'	N50°32'44"W	3.94'	160°14'22"	11.48'
C18	30.00'	45.97'	N74°05'17"E	41.61'	87°48'10"	28.87'
C19	0.50'	1.57'	S62°00'46"E	1.00'	180°00'00"	INFINITY
C20	30.00'	48.11'	N17°57'26"W	43.12'	91°53'20"	31.01'
C21	25.00'	4.13'	N32°43'06"E	4.12'	92°7'44"	2.07'
C22	25.00'	4.13'	N32°43'06"E	4.12'	92°7'44"	2.07'
C23	25.00'	6.12'	N20°58'09"E	6.11'	14°02'10"	3.08'
C24	25.00'	6.12'	N20°58'09"E	6.11'	14°02'10"	3.08'
C25	1220.12'	79.05'	N29°50'36"E	79.04'	3°42'44"	39.54'
C26	30.00'	45.23'	N74°53'28"E	41.07'	86°22'59"	28.16'
C27	0.50'	1.57'	N62°00'46"W	1.00'	180°00'00"	INFINITY
C28	30.00'	51.58'	N12°39'48"W	45.46'	98°30'29"	34.82'
C29	1220.12'	4.54'	N36°41'51"E	4.54'	0°12'48"	2.27'
C30	100.00'	32.68'	N46°09'56"E	32.53'	18°43'24"	16.49'
C31	100.00'	33.28'	N45°59'32"E	33.13'	19°04'13"	16.80'
C32	1400.12'	200.07'	N32°21'49"E	199.90'	8°11'14"	100.20'
C33	35.00'	54.82'	N73°08'13"E	49.38'	89°44'03"	34.84'
C34	15.00'	23.50'	S17°06'50"E	21.17'	89°45'50"	14.94'
C35	0.50'	1.43'	S48°52'38"E	0.99'	163°57'29"	3.55'
C36	0.50'	1.58'	N61°37'59"W	1.00'	180°07'32"	457.72'
C37	1341.62'	105.72'	N30°14'16"E	105.69'	4°30'53"	52.89'
C38	50.00'	14.53'	N40°49'10"E	14.48'	16°38'56"	7.32'
C39	0.50'	1.57'	S62°00'34"E	1.00'	180°00'00"	INFINITY
C40	0.50'	1.57'	N62°00'34"W	1.00'	180°00'00"	INFINITY
C41	1305.12'	22.84'	S28°25'58"W	22.84'	1°00'10"	11.42'
C42	1039.00'	173.37'	S82°30'47"E	173.17'	9°33'39"	86.89'
C44	1.50'	4.71'	S13°10'30"W	3.00'	180°00'00"	INFINITY
C45	1071.50'	232.15'	S82°30'37"E	231.70'	12°24'50"	116.53'
C46	250.00'	49.93'	N85°33'39"E	49.85'	11°26'38"	25.05'
C47	1074.50'	232.78'	S82°30'40"E	232.32'	12°24'45"	116.85'
C48	253.00'	50.53'	N85°33'39"E	50.45'	11°26'38"	25.35'
C49	30.00'	39.66'	S66°06'09"W	36.84'	75°45'16"	23.34'
C50	1099.00'	159.36'	S80°10'27"E	159.22'	8°18'29"	79.82'
C51	1099.00'	84.19'	S86°31'22"E	84.16'	4°23'20"	42.11'
C52	25.00'	21.21'	N66°59'01"E	20.58'	48°35'54"	11.29'
C53	55.00'	21.54'	N31°27'55"E	21.40'	22°26'19"	10.91'
C54	5.00'	7.86'	S43°39'46"E	7.08'	90°06'32"	5.01'
C55	15.00'	23.53'	N46°20'11"E	21.19'	89°53'34"	14.97'
C56	25.00'	31.45'	S52°40'34"E	29.42'	72°04'57"	18.19'
C57	100.00'	31.76'	N79°37'11"W	31.62'	18°11'42"	16.01'
C58	100.00'	31.76'	S79°37'11"E	31.62'	18°11'42"	16.01'
C59	30.00'	46.97'	N46°25'31"E	42.32'	89°42'54"	29.85'
C60	253.00'	50.53'	S85°33'39"W	50.45'	11°26'38"	25.35'
C61	1.50'	4.71'	N1°16'58"E	3.00'	180°00'00"	INFINITY

CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C62	250.00'	49.93'	S85°33'39"W	49.85'	11°26'38"	25.05'
C63	0.50'	1.26'	S19°06'44"W	0.95'	144°20'27"	1.55'
C64	1.50'	4.70'	N10°7'29"E	3.00'	179°41'01"	543.44'
C65	49.99'	56.14'	S77°54'14"E	53.23'	64°20'50"	31.45'
C66	100.00'	36.72'	S80°26'48"W	36.51'	21°02'22"	18.57'
C67	30.00'	47.73'	S44°00'42"E	42.85'	91°09'30"	30.61'
C68	100.00'	29.26'	N81°12'32"W	29.15'	16°45'51"	14.73'
C69	100.00'	29.26'	S81°12'32"E	29.15'	16°45'51"	14.73'
C70	30.04'	48.38'	N44°14'39"E	43.32'	92°15'53"	31.25'
C71	30.00'	46.43'	S43°55'44"E	41.93'	88°40'33"	29.31'
C72	1.50'	3.73'	S19°08'14"W	2.84'	142°32'36"	4.42'
C73	1.50'	4.85'	N2°05'35"W	3.00'	184°47'09"	35.96'
C74	50.00'	32.69'	S70°51'46"E	32.11'	37°27'24"	16.95'
C75	100.00'	31.76'	N81°18'42"E	31.62'	18°11'42"	16.01'
C76	100.00'	31.76'	S81°18'42"W	31.62'	18°11'42"	16.01'
C77	30.00'	47.12'	N46°43'59"E	42.43'	90°00'00"	30.00'
C78	5.00'	7.85'	S43°16'01"E	7.07'	90°00'00"	5.00'
C79	327.50'	265.99'	N65°00'00"W	258.74'	46°32'02"	140.82'
C80	30.00'	57.73'	N83°08'04"E	49.23'	110°15'55"	43.06'
C81	6.50'	20.42'	S0°24'33"W	13.00'	180°00'00"	INFINITY
C82	300.00'	159.38'	N73°02'49"W	157.51'	30°26'23"	81.62'
C83	150.00'	38.84'	N84°18'56"E	38.73'	14°50'06"	19.53'
C84	150.00'	38.84'	S84°18'56"W	38.73'	14°50'06"	19.53'
C85	297.00'	114.32'	N77°14'25"W	113.61'	22°03'11"	57.87'
C86	250.00'	29.69'	N62°48'40"W	29.68'	6°48'18"	14.86'
C87	339.50'	10.09'	N58°33'26"W	10.09'	1°42'11"	5.05'
C88	300.00'	48.58'	N52°05'17"W	48.52'	9°16'39"	24.34'
C89	339.50'	47.93'	N52°41'25"W	47.89'	8°05'19"	24.00'
C90	300.00'	24.30'	N44°03'13"W	24.30'	4°38'29"	12.16'
C91	330.27'	43.65'	N46°59'30"W	43.62'	7°34'21"	21.86'
C92	50.00'	20.17'	N29°57'21"W	20.04'	23°06'54"	10.22'
C93	0.50'	1.42'	N63°04'51"E	0.99'	162°57'30"	3.34'
C94	339.50'	23.09'	N37°23'17"W	23.08'	3°53'46"	11.55'
C95	150.00'	39.19'	S35°29'13"W	39.08'	14°58'13"	19.71'
C96	150.00'	39.19'	N35°29'13"E	39.08'	14°58'13"	19.71'
C97	2.50'	7.85'	S61°59'54"E	5.00'	180°00'00"	INFINITY
C98	200.00'	62.83'	N19°00'09"E	62.57'	17°59'54"	31.67'
C99	205.00'	64.40'	S19°00'09"W	64.13'	17°59'53"	32.47'
C100	205.00'	44.49'	N21°47'04"E	44.40'	12°26'04"	22.33'
C101	200.00'	43.40'	S21°47'04"W	43.32'	12°26'04"	21.79'
C102	30.01'	46.68'	N17°25'24"W	42.12'	89°08'40"	29.56'
C103	30.00'	46.67'	N72°34'21"E	42.11'	89°08'31"	29.55'
C104	150.00'	38.84'	S35°25'09"W	38.73'	14°50'06"	19.53'
C105	150.00'	38.84'	N35°25'09"E	38.73'	14°50'06"	19.53'
C106	25.00'	6.12'	N20°59'01"E	6.11'	14°02'10"	3.08'
C107	25.00'	6.12'	S20°59'01"W	6.11'	14°02'10"	3.08'
C108	2.50'	7.85'	S61°59'54"E	5.00'	180°00'00"	INFINITY
C109	250.00'	8				

Plotted By: Leo-Sugbar, Kollie - Sheet Set: K10 - K1 - LVB - Civil - 092755002 - Resorts World LV PH1\CAD\PlanSheets\Bid Alternates\092755002-PP-LVB.dwg
 This document, together with the concepts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and imprecise reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY MAP

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.
7. REFER TO SHEET TY-03 FOR TYPICAL ROADWAY SECTIONS.
8. REFER TO SHEET HC-05-HC-07 FOR LINE AND CURVE DATA.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER TERRACON CONSULTANTS, INC.
 DATED: MARCH 16, 2007 AND ALL ADDENDUMS THROUGH APRIL 20, 2020
 PROJECT No. 64065098 (ORIGINAL) AND ALL ADDENDUMS THROUGH 64155023 (ADDENDUM #17)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

CONSTRUCTION NOTES

1. INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
2. INSTALL TYPE 'A' CONCRETE CURB PER CCAUSD No. 219.
4. INSTALL AC PAVING AND BASE MATERIAL. PROVIDE/REPLACE PAVEMENT PER STRUCTURAL SECTIONS ON TY-03 AND PER L-2210 SPECIFICATIONS.
17. ADJUST UTILITY APPURTENANCE TO GRADE
18. REMOVE EXISTING GRADE INLET AND INSTALL 48" (I.D.) NEW TYPE 1 MANHOLE PER CCAUSD NO. 403. COLLAR PER CCAUSD NO. 408. COVER PER CCAUSD NO. 409 AND 410. MAINTAIN EXISTING FLOWLINE
26. CUSTOM "LAS VEGAS BLVD" ADA RAMP PER DETAILS ON SHEETS DT-01 TO DT-04.
27. INSTALL APPROACH SLAB PER SECTION 1 ON SHEET SS.01. LENGTH AS NOTED ON PLANS.
28. INSTALL APPROACH SLAB PER SECTION 5 ON SHEET SS.02. LENGTH AS NOTED ON PLANS.
29. INSTALL APPROACH SLAB PER SECTION 4 ON SHEET SS.02. LENGTH AS NOTED ON PLANS.
35. REFER TO LANDSCAPE PLANS FOR DETAILS.
- ME. MATCH EXISTING GRADE
- PH. PROTECT IN PLACE
- SC. SAWCUT LINE/MATCH EXISTING.
- SD. REFER TO SHEET SD-01 TO SD-04 FOR STORM DRAIN PLAN & PROFILE.
- SV. SIGHT VISIBILITY ZONE PER CCAUSD No. 201.2. LENGTH AS NOTED ON PLAN.

RIGHT-OF-WAY AND EASEMENTS

- EX. R/W
- PR. R/W PER FINAL MAP #NFM 19-500109

BENCHMARK

CONVERSION TO 2018 BENCHMARK:
 637.459-0.073m=637.386 METERS
 2091.40-0.24=2091.16 FEET

BASIS OF BEARING

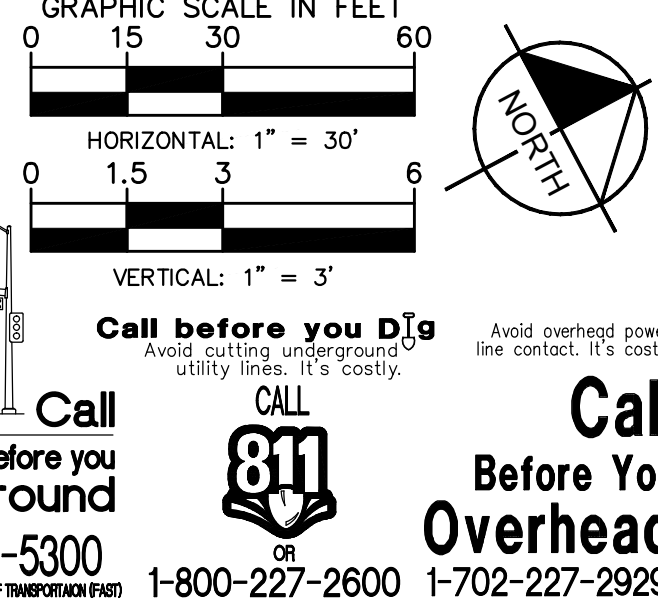
NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

ELEVATION = 637.459 METERS 2091.40 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD83)

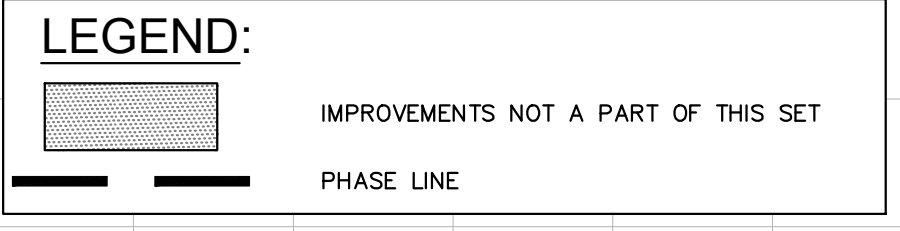
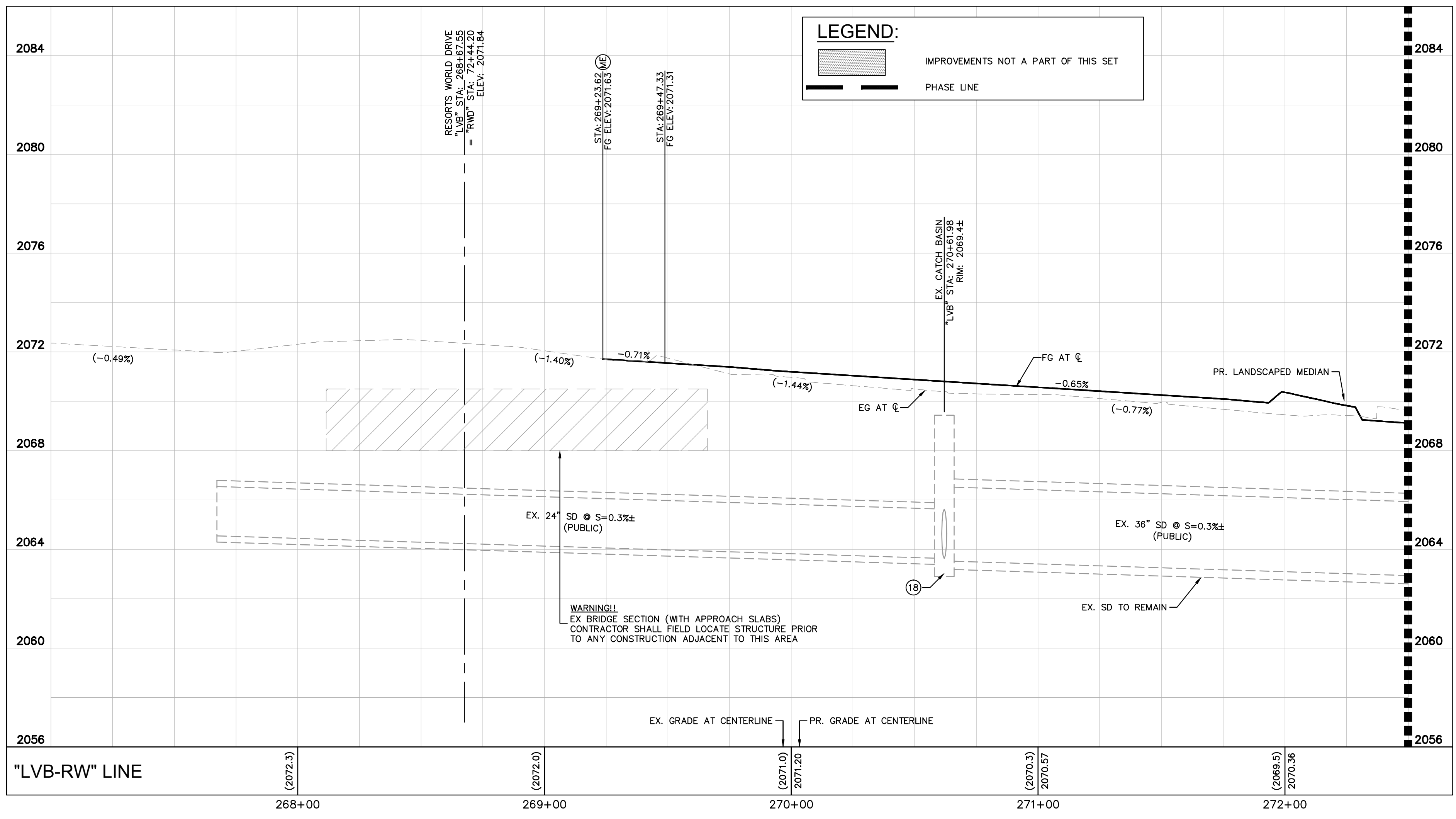
DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855.
 04/20/2021
 Thomas E. Ackeret, P.E., PTOE #18592

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
 Acceptance of plans for filing
 By: _____
 Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state or county laws and/or specifications. Clark County shall be held free from damages which may result from the construction of the improvements from the engineering design depicted herein.
 Note: Power poles and/or other existing facilities not in proper location based on proposed improvements shown herein will be relocated at no expense to Clark County.



Call before you Dig
 Call before you Overhead
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929



SVZ NOTE:
 NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE 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.

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE 11/25/2019
 CCWRD PIPES #19,249
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

ORIGINALLY SIGNED BY M. PEDAZA
 SOUTHWEST GAS CORPORATION
 DATE 11/18/2019

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 ISSUED FOR CONSTRUCTION
 RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC
 SHEET NUMBER PP-10
 HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17153 (TDS UPDATE), 19-13855 (TDS UPDATE)

NO.	REVISIONS	DATE	BY
10	LVB-GENTING INTERSECTION	04/20/2021	KH
9	R/WLY RELATED IMPROVEMENT REV	12/28/2020	KH
7	R/WLY RELATED IMPROVEMENT REV	09/04/2020	KH
4	REVISED PER REVISION No. 2	2/18/2020	KH
2	REVISED PER REVISION No. 4	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

Permit Number Table

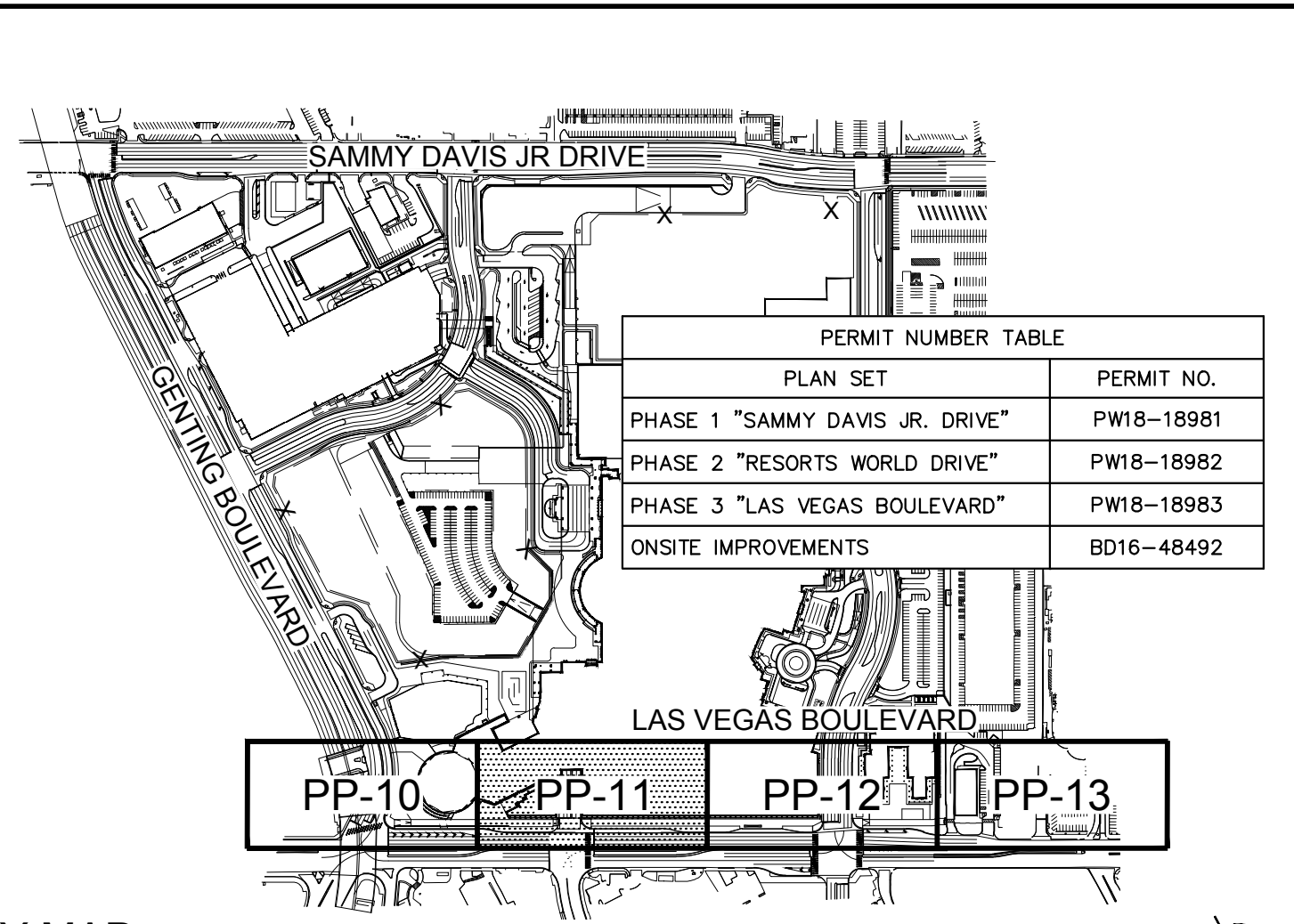
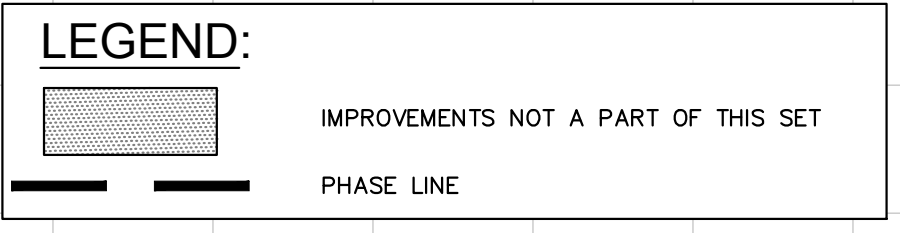
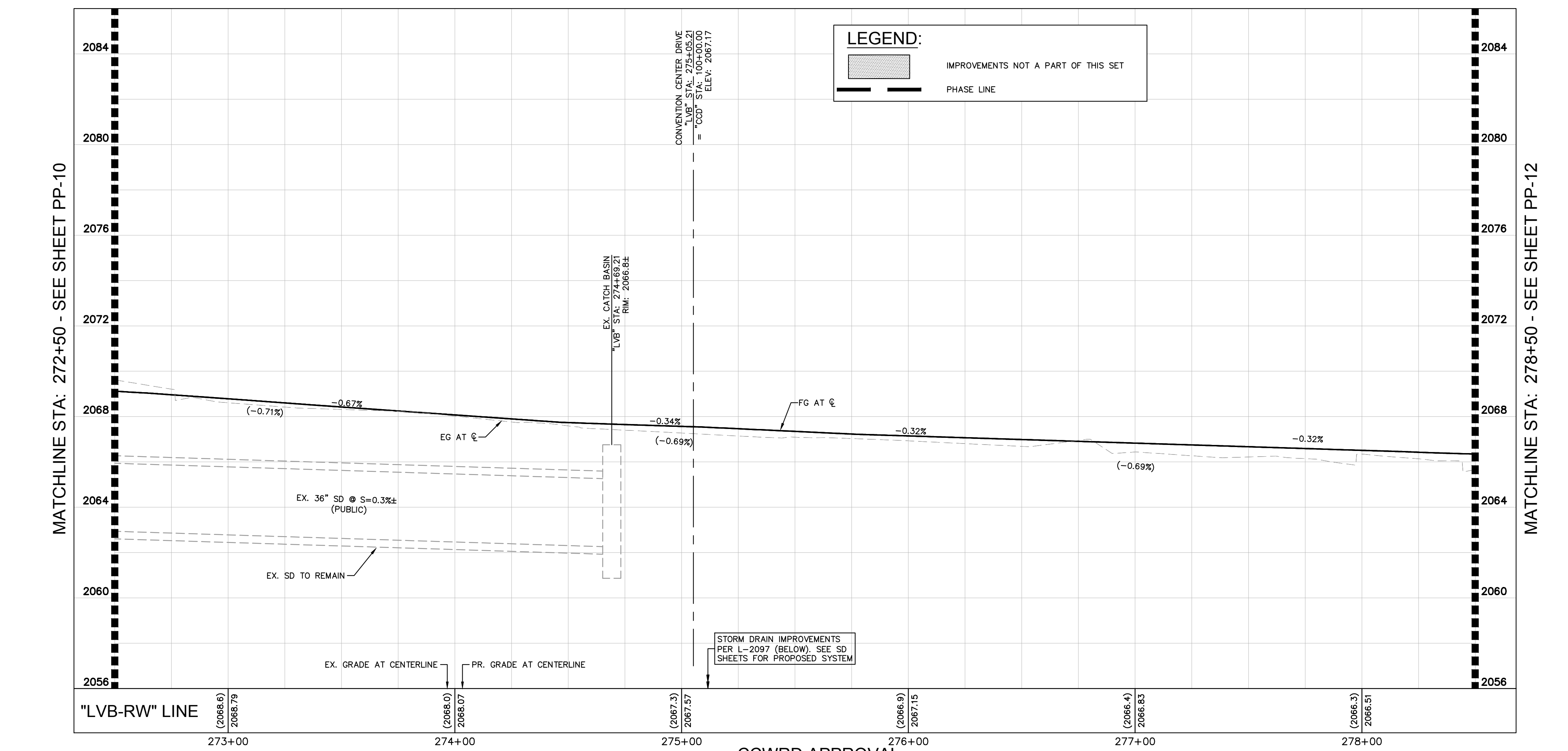
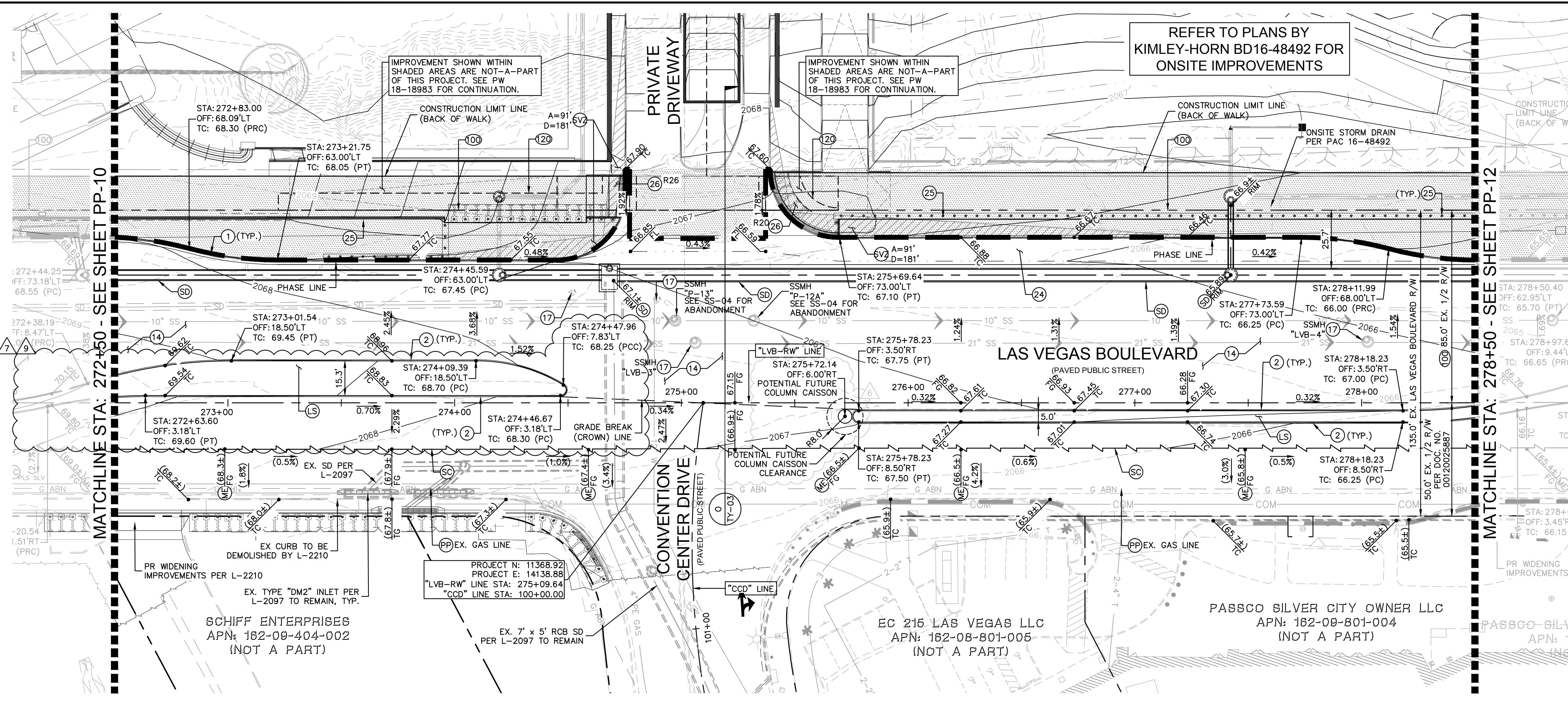
PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

Kimley-Horn
 © 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

THOMAS ACKERET
 CIVIL ENGINEER
 Exp. 12/31/22
 License No. 18592

RESORTS WORLD LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) STA 267+00 - 272+50

Plotted by: Leo-Sugrivas, Kallie - Sheet Set: Kna - Layout: PP-11 - K:\AV_Civil\092755002-Reports World LV Plan\CAD\PlanSheets\Bid Alternates\092755002-PP-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



PERMIT NUMBER TABLE

PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
- ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
- THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
- ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
- REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.
- REFER TO SHEET TY-03 FOR TYPICAL ROADWAY SECTIONS.
- REFER TO SHEET HC-05-HC-07 FOR LINE AND CURVE DATA.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER: TERRACON CONSULTANTS, INC.
 DATED: MARCH 16, 2007 AND ALL ADDENDUMS THROUGH APRIL 20, 2020
 PROJECT No. 64065098 (ORIGINAL) AND ALL ADDENDUMS THROUGH 64155023 (ADDENDUM #17)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

CONSTRUCTION NOTES

- INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
- INSTALL TYPE 'A' CONCRETE CURB PER CCAUSD No. 219.
- INSTALL AC PAVING AND BASE MATERIAL. PROVIDE/REPLACE PAVEMENT PER STRUCTURAL SECTIONS ON TY-03 AND PER L-2210 SPECIFICATIONS.
- ADJUST UTILITY APPURTENANCE TO GRADE.
- INSTALL MODIFIED CONCRETE BUS TUNOUT (CCAUSD No. 234.1)/RIGHT TURN LANE.
- PEDESTRIAN PROTECTION BOLLARDS PER L-2210.
- CUSTOM "LAS VEGAS BLVD" ADA RAMP PER DETAILS ON SHEETS DT-01 TO DT-04.
- REFER TO LANDSCAPE PLANS FOR DETAILS.
- MATCH EXISTING GRADE.
- PROTECT IN PLACE.
- SAWCUT LINE/MATCH EXISTING.
- REFER TO SHEET SD-01 TO SD-04 FOR STORM DRAIN PLAN & PROFILE.
- SIGHT VISIBILITY ZONE PER CCAUSD No. 201.2, LENGTH AS NOTED ON PLAN.

RIGHT-OF-WAY AND EASEMENTS

- EX. R/W
- PR. BOLLARD EASEMENT PER FINAL MAP #NFM-19-500109.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 9SWW6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°58'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855

Thomas E. Ackret, P.E. PTOE #18592 DATE 12/30/2020

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

Acceptance of plans for filing

By: _____

Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state or county laws and/or specifications. Clark County shall be held free from damages which may result from the construction of the improvements from the engineering design depicted herein.

Note: Power poles and/or other existing facilities not in proper location based on proposed improvements shown herein will be relocated at no expense to Clark County.

GRAPHIC SCALE IN FEET

HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 3'

Call before you Dig
 Call before you UnderGround
 Call before you Overhead

KIMLEY-HORN & ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY, NEVADA

STA 272+50 - 278+50

SHEET 293 OF 345

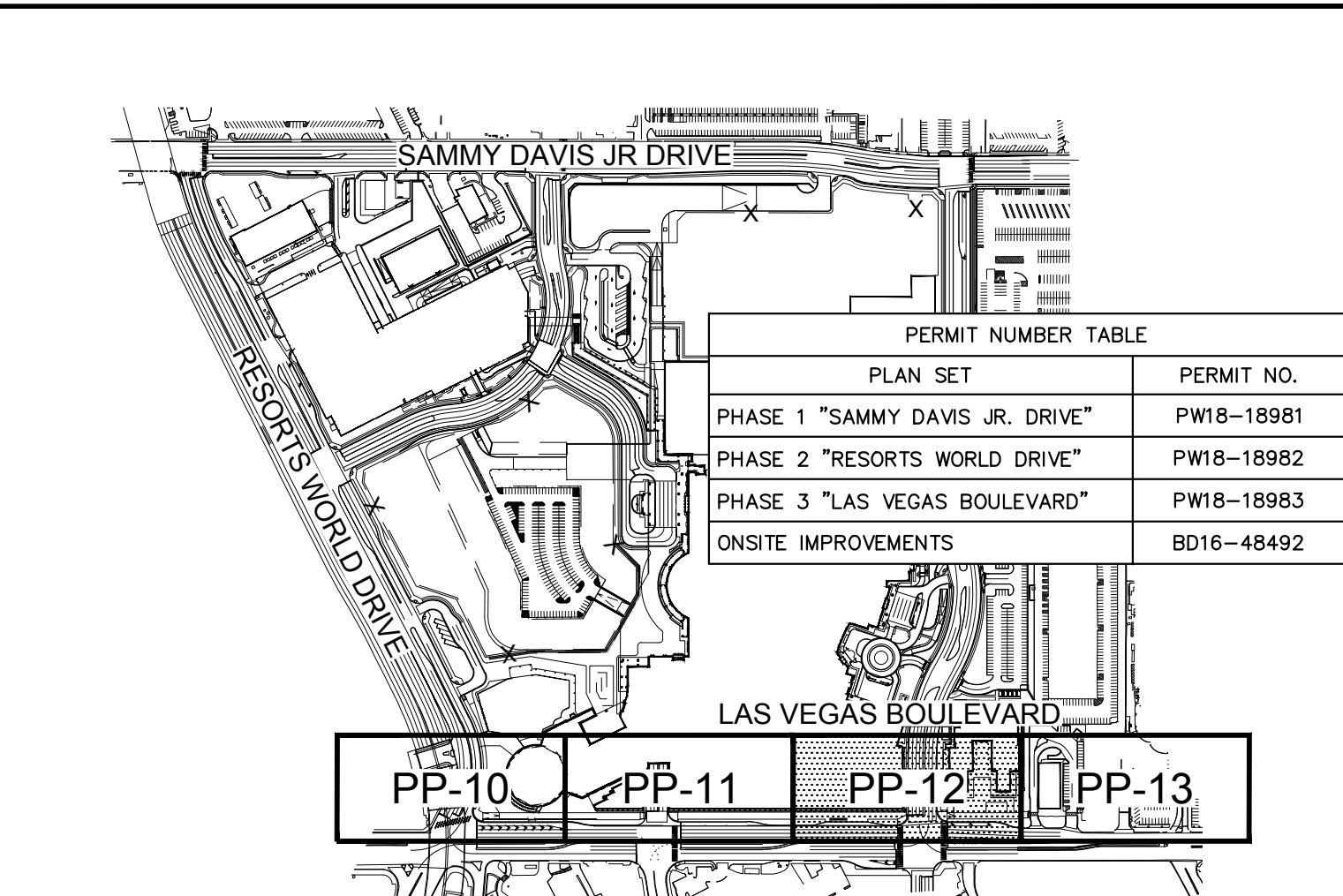
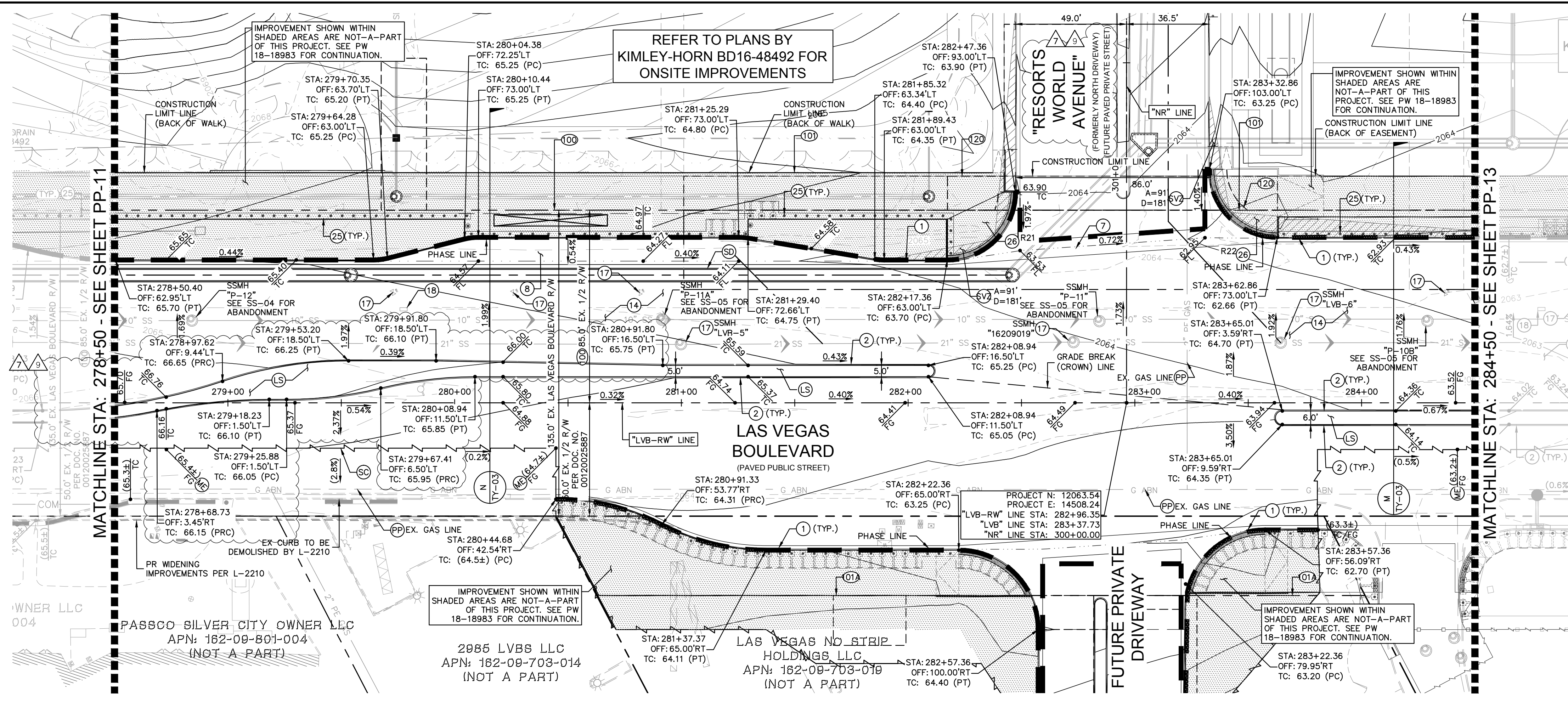
ISSUED FOR CONSTRUCTION

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17153 (TDS UPDATE), 19-13855 (TDS UPDATE)

SHEET NUMBER
 PP-11

P:\2020\18-18983\18-18983-002\18-18983-002-PP-12.dwg
 K:\Users\jgallagher\OneDrive - Kimley-Horn and Associates, Inc. Documents\18-18983\18-18983-002\18-18983-002-PP-12.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



PERMIT NUMBER TABLE

PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
- ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
- THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
- ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
- REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.
- REFER TO SHEET TY-03 FOR TYPICAL ROADWAY SECTIONS.
- REFER TO SHEET HC-05-HC-07 FOR LINE AND CURVE DATA.

GEOTECHNICAL REPORT

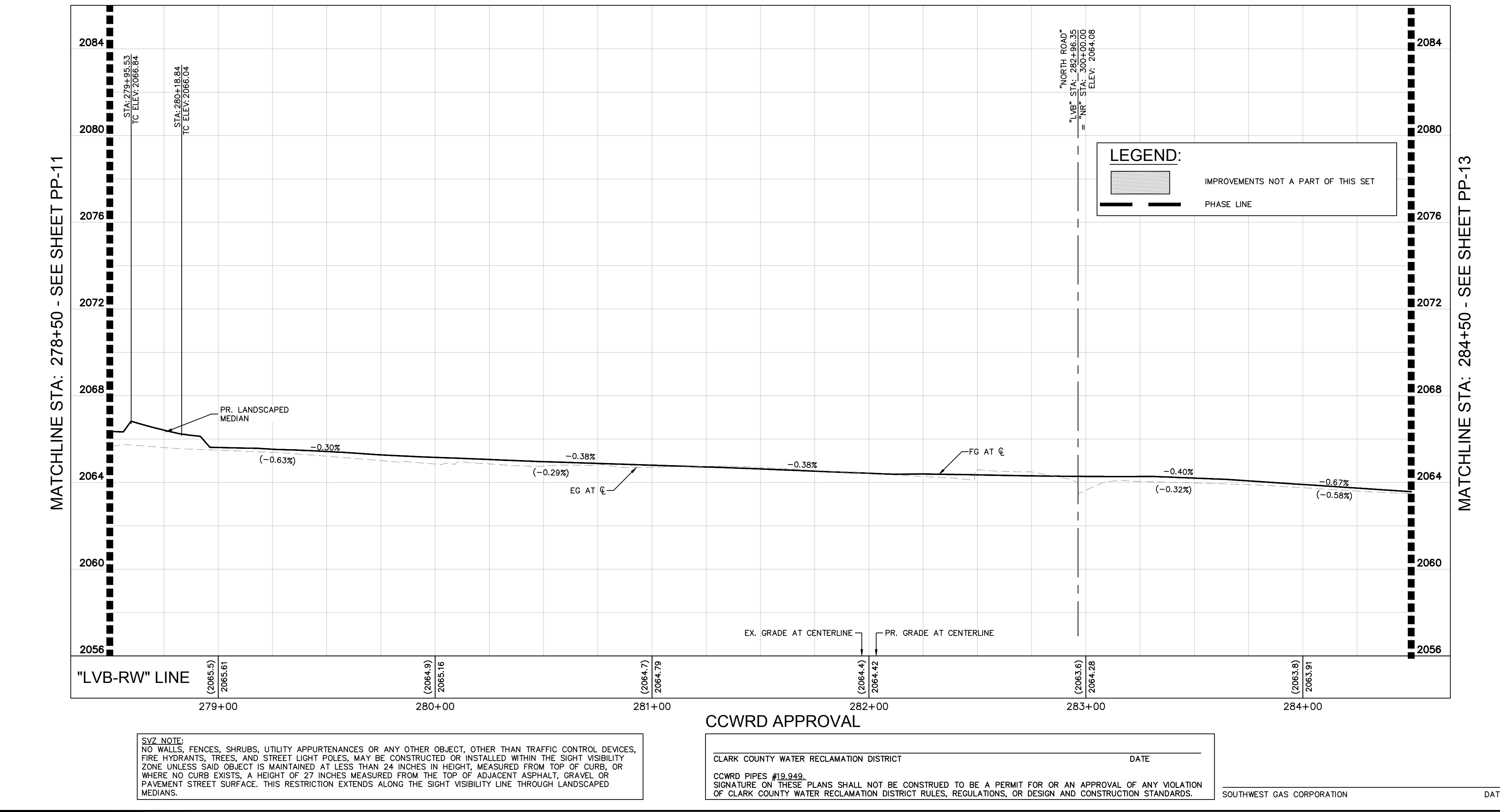
ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER TERRACON CONSULTANTS, INC.
 DATED: MARCH 16, 2007
 PROJECT No. 64065098 (ORIGINAL) AND ALL ADDENDUMS THROUGH 64155023 (ADDENDUM #17)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

CONSTRUCTION NOTES

- INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
- INSTALL TYPE 'A' CONCRETE CURB PER CCAUSD No. 219.
- INSTALL COMMERCIAL DRIVEWAY PER CCAUSD No. 222.1 AND 225.
- INSTALL BUS TURN-OUT PER CCAUSD No. 234.1 AND 234.2.
- INSTALL AC PAVING AND BASE MATERIAL. PROVIDE/REPLACE PAVEMENT PER STRUCTURAL SECTIONS ON TY-03 AND PER L-2210 SPECIFICATIONS.
- ADJUST UTILITY APPURTENANCE TO GRADE.
- REMOVE EXISTING GRADE INLET AND INSTALL 48" (I.D.) NEW TYPE 1 MANHOLE PER CCAUSD No. 403, COLLAR PER CCAUSD No. 408, COVER PER CCAUSD No. 409 AND 410. MAINTAIN EXISTING FLOWLINE.
- PEDESTRIAN PROTECTION BOLLARDS PER L-2210.
- CUSTOM "LAS VEGAS BLVD" ADA RAMP PER DETAILS DT-01 TO DT-04.
- REFER TO LANDSCAPE PLANS FOR DETAILS.
- PROTECT IN PLACE.
- SAW CUT LINE/MATCH EXISTING.
- REFER TO SHEET SD-01 TO SD-04 FOR STORM DRAIN PLAN & PROFILE.
- SIGHT VISIBILITY ZONE PER CCAUSD No. 201.2, LENGTH AS NOTED ON PLAN.



RIGHT-OF-WAY AND EASEMENTS

- EX. R/W
- PR. R/W PER FINAL MAP #NFM 19-500109
- PR. R/W PER DOC #20190916-0002444.
- PR. BOLLARD EASEMENT PER FINAL MAP #NFM-19-500109.

BENCHMARK

CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24' = 2091.16 FEET

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855

Thomas E. Ackert, P.E., PTOE #18592 DATE 12/30/2020

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

Acceptance of plans for filing

By: _____

Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state or county laws and/or specifications. Clark County shall be held free from damages which may result from the construction of the improvements from the engineering design depicted herein.

Note: Power poles and/or other existing facilities not in proper location based on proposed improvements shown herein will be relocated at no expense to Clark County.

GRAPHIC SCALE IN FEET

HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 3'

Call before you Dig

Call before you UnderGround
 1-702-432-5300

Call Before You Overhead
 1-800-227-2600 1-702-227-2929

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 SHEET NUMBER PP-12
 SHEET 294 OF 345

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA
 HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17153 (TDS UPDATE), 19-13855 (TDS UPDATE)

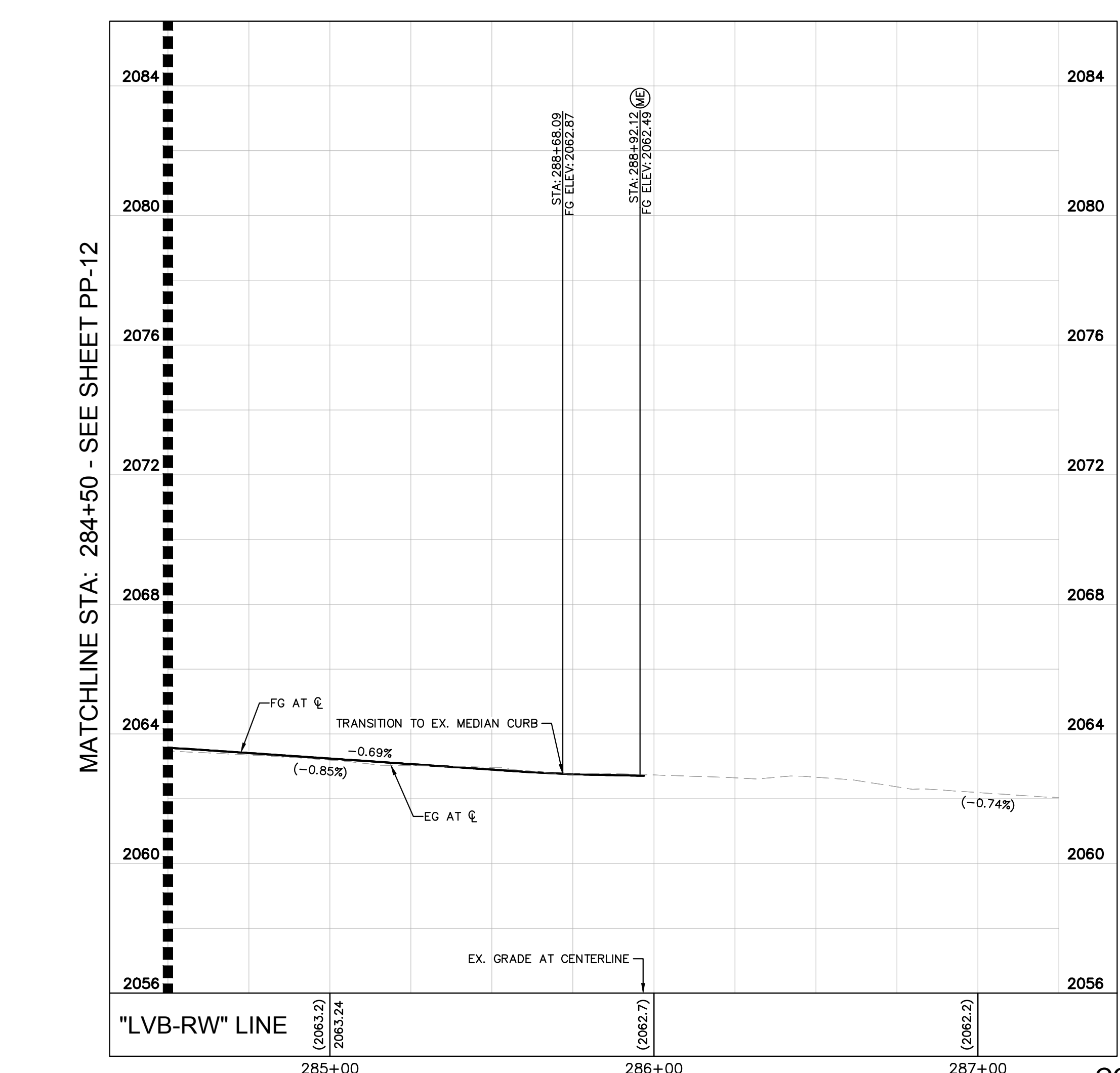
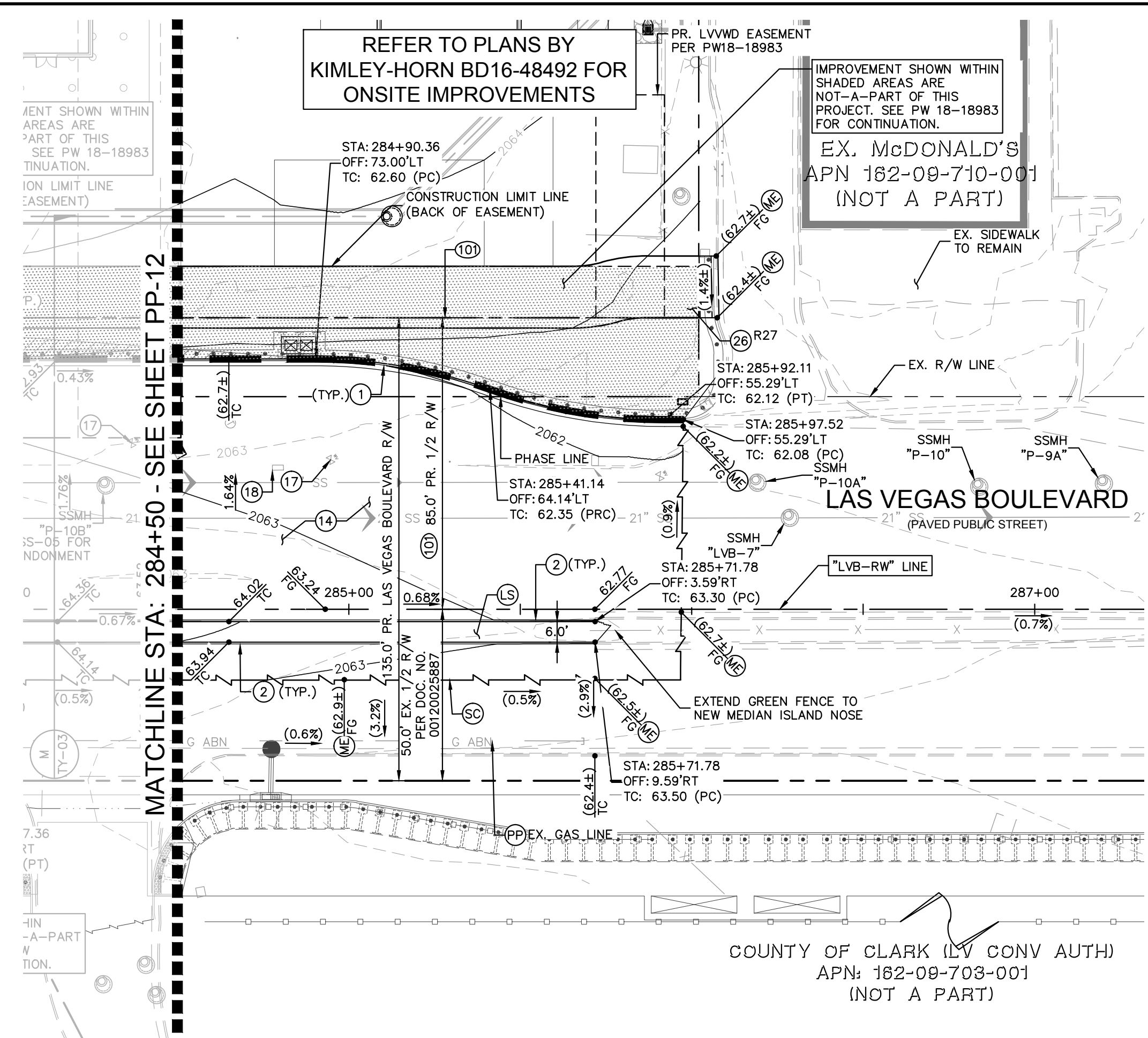
ISSUED FOR CONSTRUCTION

KIMLEY-HORN ENGINEERS
 THOMAS ACKERT
 CIVIL ENGINEER
 Exp. 12/31/22
 6971 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

KHA PROJECT 092755002
 DATE 10/23/2019
 SCALE AS SHOWN
 DESIGNED BY TEA
 DRAWN BY SIM
 CHECKED BY RAM
 12/30/2020

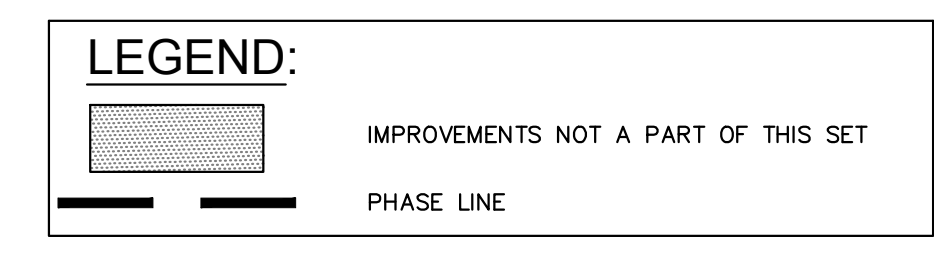
KIMLEY-HORN

Plotted By: Pflanz, Griffin, Sheet: Sta: K:\LAV_Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bid Alternates\092755002-PP-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SVZ NOTE:
 NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE 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.

SOUTHWEST GAS CORPORATION DATE

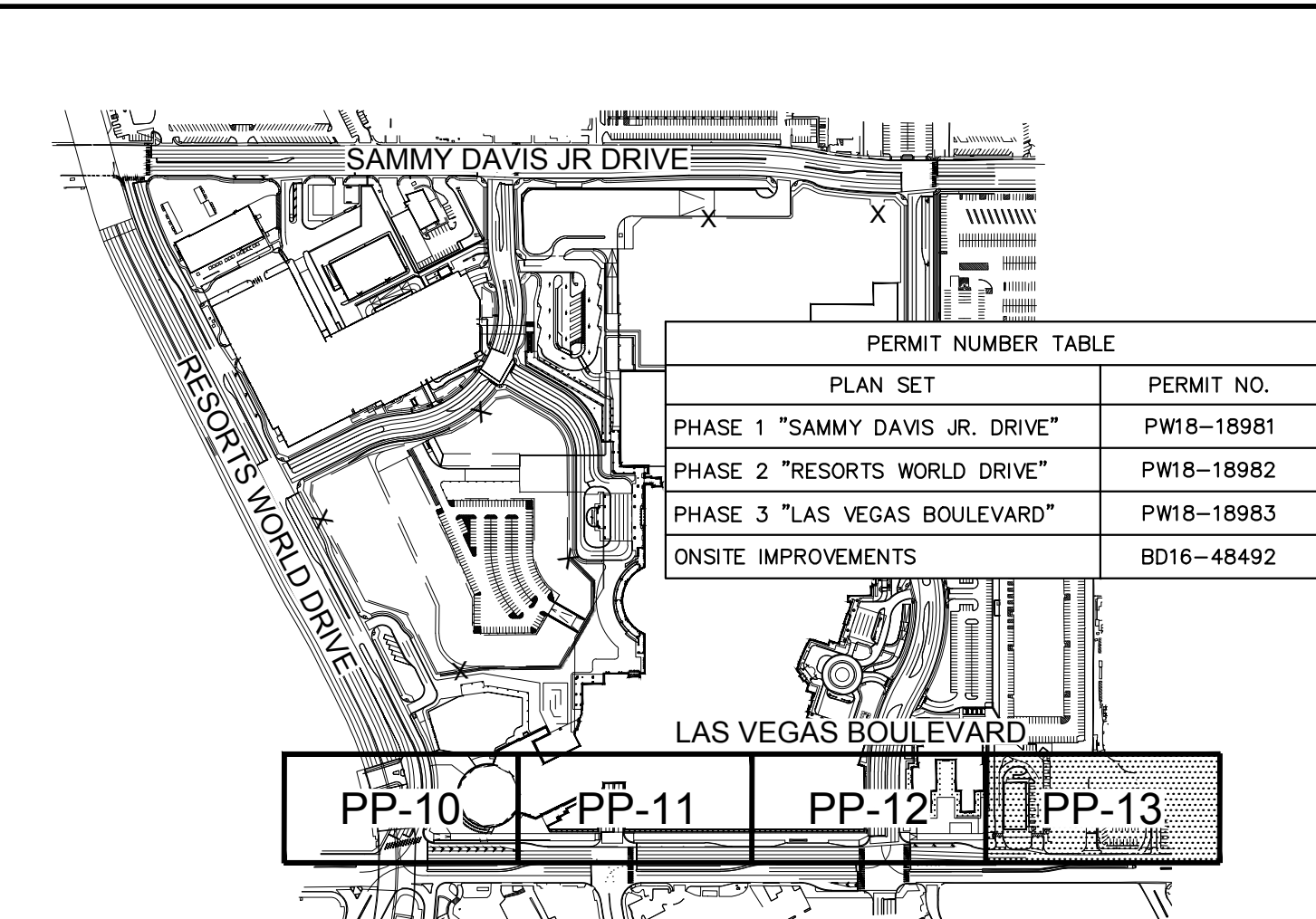


CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #19,949.

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



KEY MAP
 NTS
GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
- ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
- THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
- ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
- REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.
- REFER TO SHEET TY-03 FOR TYPICAL ROADWAY SECTIONS.
- REFER TO SHEET HC-05-HC-07 FOR LINE AND CURVE DATA.

GEOTECHNICAL REPORT
 ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER: TERRACON CONSULTANTS, INC.
 DATED: MARCH 16, 2007 OCTOBER 6, 2015 JUNE 15, 2016 DECEMBER 27, 2016
 PROJECT No: 64065098 (ORIGINAL) 64155023 (UPDATE) 64155023 (ADDM #1) 64155023 (UPDATE)

FLOOD ZONE NOTE
 THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

- CONSTRUCTION NOTES**
- INSTALL TYPE 'L' CONCRETE CURB AND GUTTER PER CCAUSD No. 216.
 - INSTALL TYPE 'A' CONCRETE CURB PER CCAUSD No. 219.
 - INSTALL AC PAVING AND BASE MATERIAL. PROVIDE/REPLACE PAVEMENT PER STRUCTURAL SECTIONS ON TY-03 AND PER L-2210 SPECIFICATIONS.
 - ADJUST UTILITY APPURTENANCE TO GRADE.
 - REMOVE EXISTING GRADE INLET AND INSTALL 48" (I.D.) NEW TYPE 1 MANHOLE PER CCAUSD No. 403, COLLAR PER CCAUSD No. 408, COVER PER CCAUSD No. 409 AND 410. MAINTAIN EXISTING FLOWLINE.
 - CUSTOM "LAS VEGAS BLVD" ADA RAMP PER DETAILS ON SHEETS DT-01 TO DT-04.
 - REFER TO LANDSCAPE PLANS FOR DETAILS.
 - MATCH EXISTING GRADE.
 - PROTECT IN PLACE.
 - SAWCUT LINE/MATCH EXISTING.

RIGHT-OF-WAY AND EASEMENTS

⑩ PR. R/W PER FINAL MAP #NFM 19-500109

BENCHMARK
 CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 9SWW6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING
 NORTH 27°58'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855

11/13/2019 DATE
 Thomas E. Ackeret, P.E. PTOE #18592

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

Acceptance of plans for filing

By: _____

Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state or county laws and/or specifications. Clark County shall be held free from damages which may result from the construction of the improvements from the engineering design depicted herein.

Note: Power poles and/or other existing facilities not in proper location based on proposed improvements shown herein will be relocated at no expense to Clark County.

GRAPHIC SCALE IN FEET
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 3'

Call before you Dig
 Call before you UnderGround
 Call before you Overhead

1-702-432-5300
 1-800-227-2600
 1-702-227-2929

Kimley-Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

REVISIONS

No.	DATE	BY
2	11/13/2019	KH
1	10/23/2019	KH

ISSUED FOR CONSTRUCTION

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

CLARK COUNTY NEVADA

SHEET NUMBER PP-13

DATE: 11/13/2019

DESIGNED BY: THOMAS ACKERET

DRAWN BY: SIMA

CHECKED BY: RAM

PROJECT: 092755002

DATE: 10/23/2019

SCALE: AS SHOWN

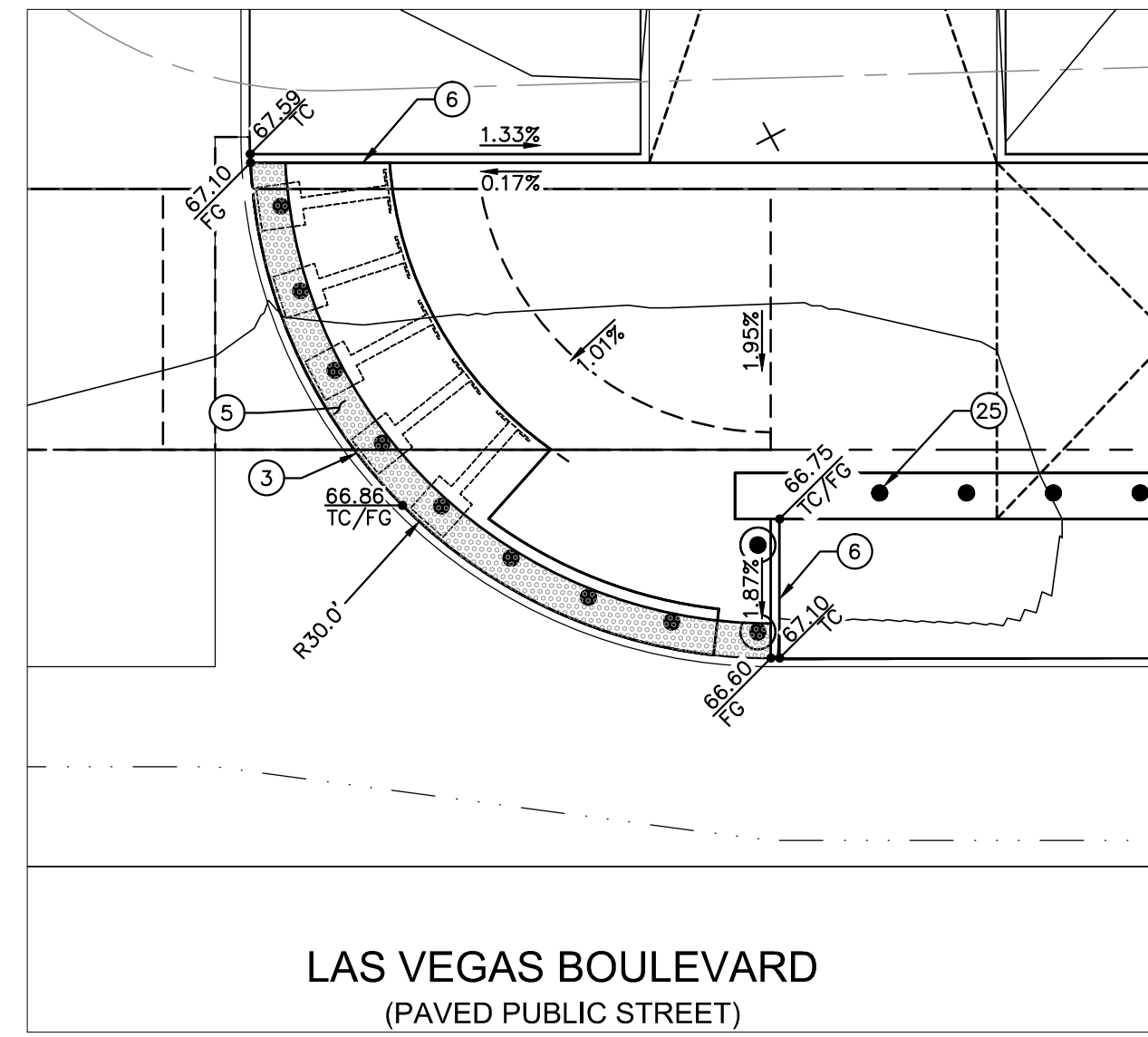
TEA: 11/13/2019

ISSUED FOR CONSTRUCTION

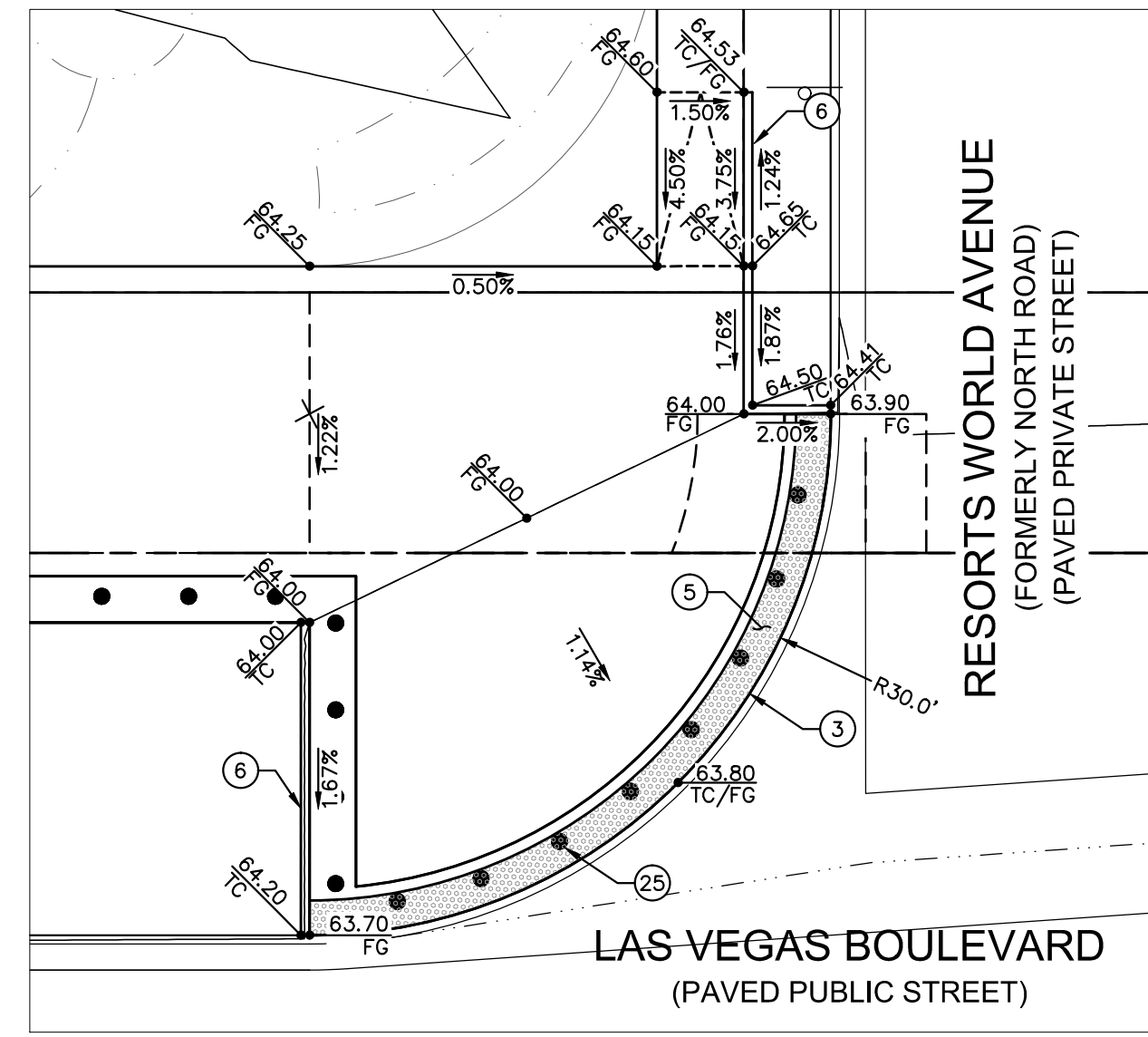
PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17153 (TDS UPDATE), 19-13855 (TDS UPDATE)

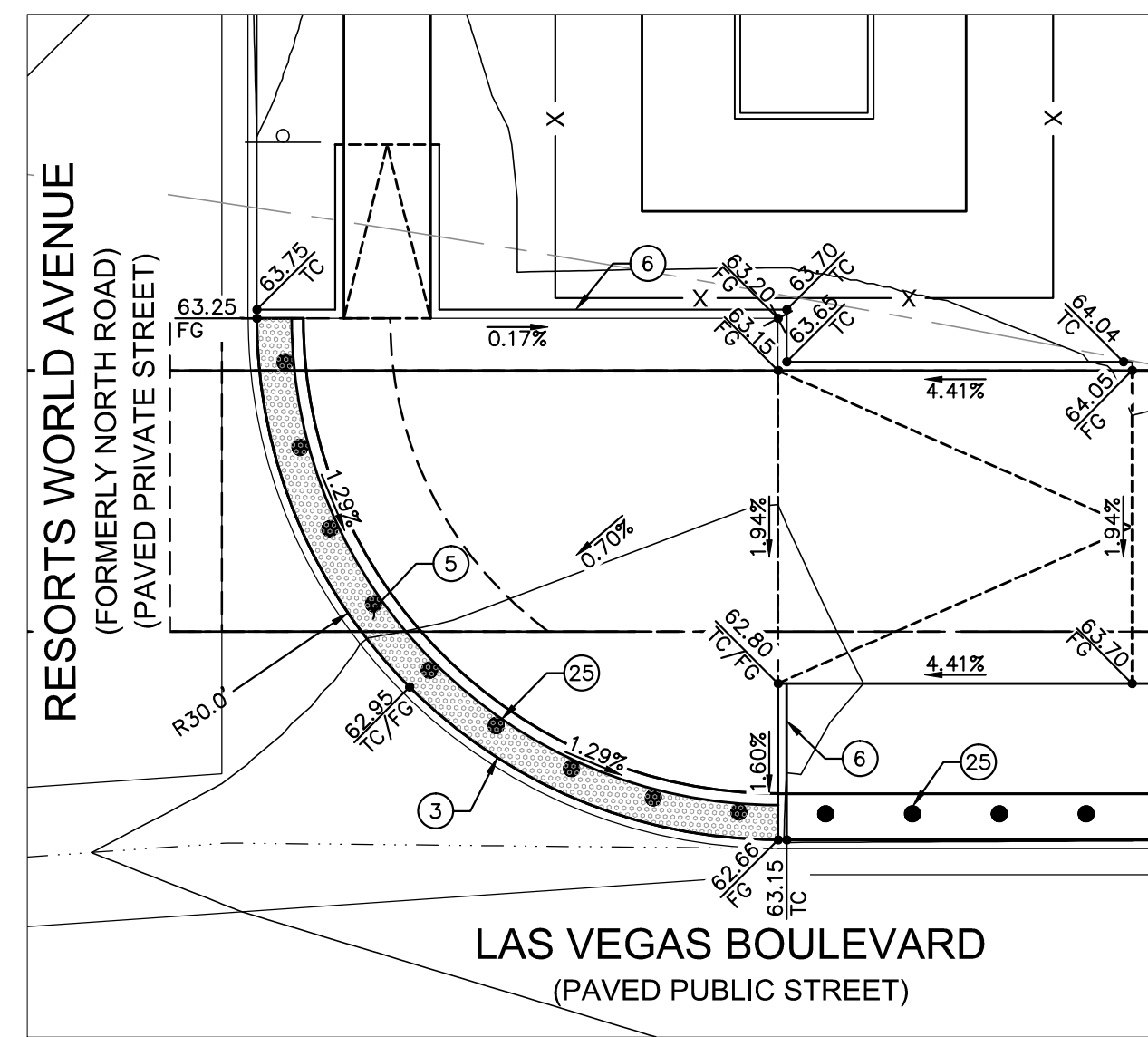
Plotted By: Leo-Sugihara, Kollie - Sheet Set: KHA - Layout: DT-03 - K:\LAV_Civil\092755002-Resorts World LV Ph3\CAD\PlanSheets\Bid Alternates\092755002-03-Dat1-Ramps.dwg
 This document, together with the concepts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



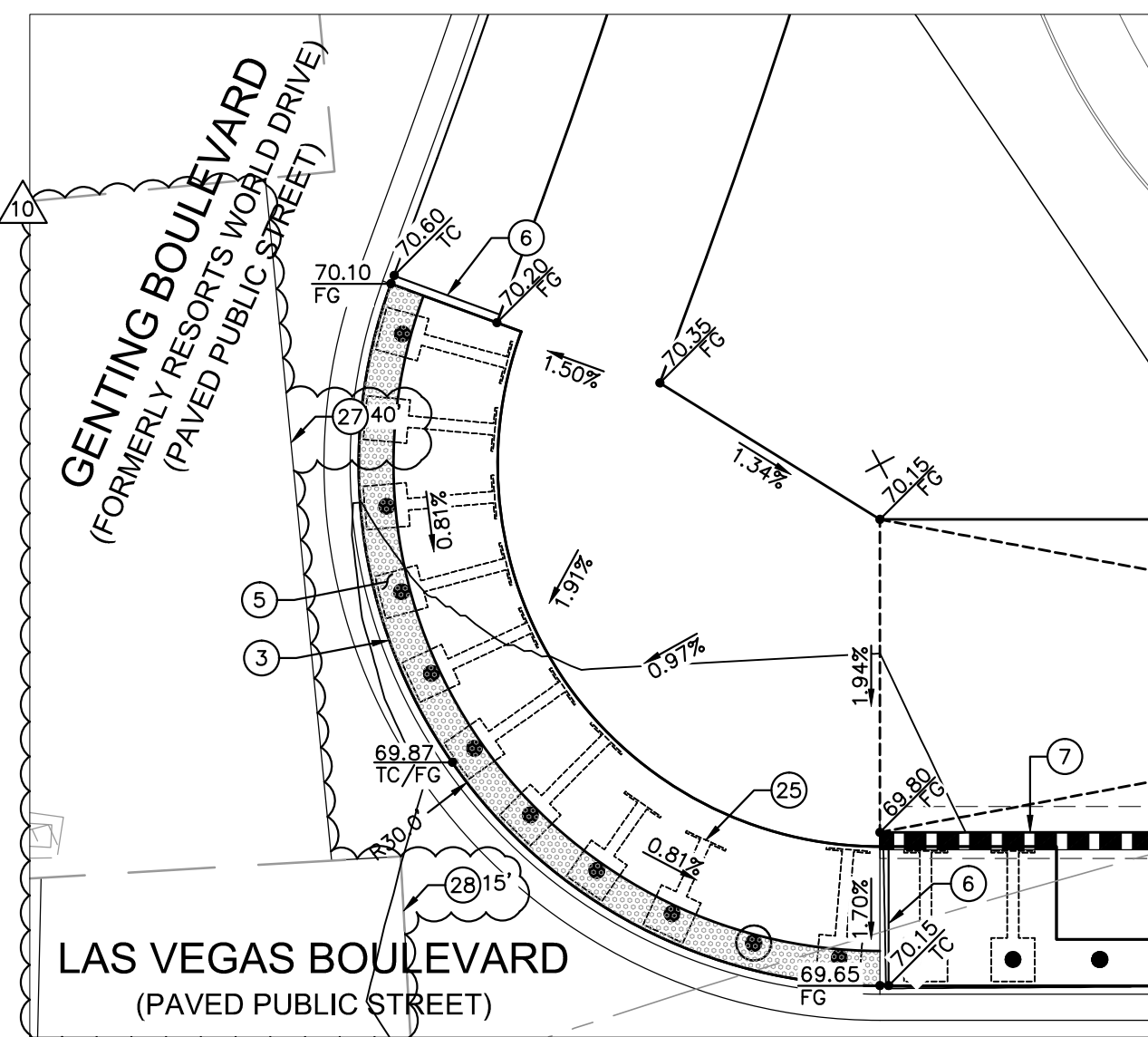
R20
PP-11
RAMP DETAIL 20 (PHASE 3, CUSTOM RAMP)
SCALE: 1" = 10'



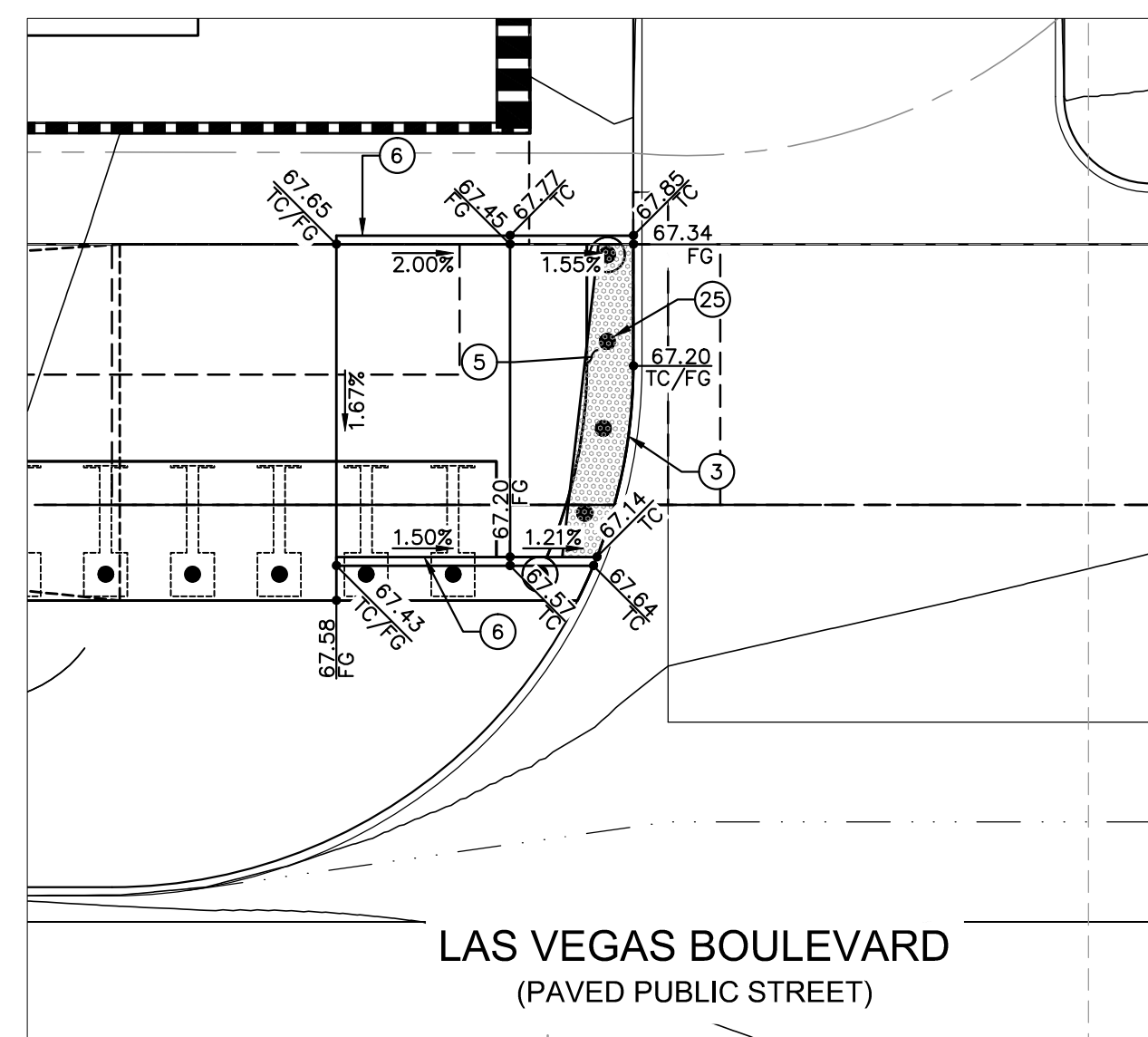
R21
PP-12
RAMP DETAIL 21 (PHASE 3, CUSTOM RAMP)
SCALE: 1" = 10'



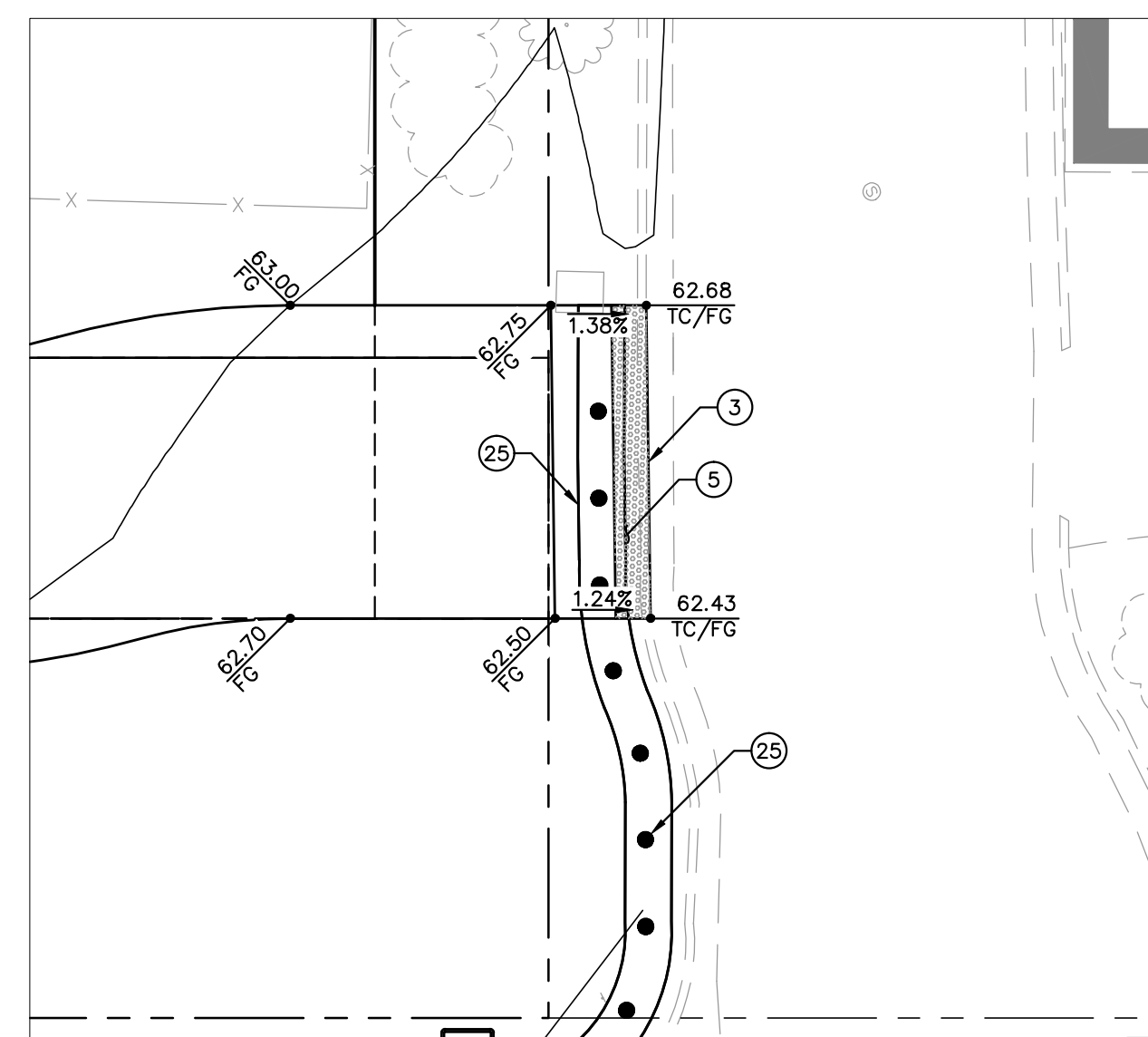
R22
PP-12
RAMP DETAIL 22 (PHASE 3, CUSTOM RAMP)
SCALE: 1" = 10'



R24
PP-10
RAMP DETAIL 24 (PHASE 3, CUSTOM RAMP)
SCALE: 1" = 10'



R26
PP-11
RAMP DETAIL 26 (PHASE 3, CUSTOM RAMP)
SCALE: 1" = 10'



R27
PP-13
RAMP DETAIL 27 (PHASE 3, CUSTOM RAMP)
SCALE: 1" = 10'

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET C0.02 FOR LEGEND AND ABBREVIATIONS.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER: TERRACON CONSULTANTS, INC.
 DATED: MARCH 16, 2007 OCTOBER 6, 2015 JUNE 15, 2016 DECEMBER 27, 2016
 PROJECT No: 64065098 (ORIGINAL) 64155023 (UPDATE) 64155023 (ADDM #1) 64155023 (UPDATE)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

CONSTRUCTION NOTES

1. INSTALL CASE I SIDEWALK RAMP PER CCAUSD No. 235.
2. INSTALL CASE II SIDEWALK RAMP PER CCAUSD No. 235.
3. INSTALL 0" FACE CURB PER DETAIL II ON SHEET DT-04.
5. DETECTABLE WARNING SURFACE WITH TRUNCATED DOMES (YELLOW), PER CCAUSD No. 235, PAGE 4 OF 4. TRUNCATED DOMES SHALL BE INSTALLED ADJACENT TO BACK OF CURB, WHERE SHOWN ON A CURB, CONTRACTOR SHALL INSTALL RADIAL TRUNCATED DOMES W/ OUTER RADIUS AS SHOWN.
6. INSTALL MODIFIED TYPE 'A' CONCRETE CURB PER DETAIL I ON SHEET DT-04.
7. PR. RETAINING WALL PER PW18-18983.
10. PEDESTRIAN PROTECTION BOLLARDS PER L-2210.
27. INSTALL APPROACH SLAB PER SECTION 1 ON SHEET S5.01, LENGTH AS NOTED ON PLANS.
28. INSTALL APPROACH SLAB PER SECTION 5 ON SHEET S5.02, LENGTH AS NOTED ON PLANS.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 9SWM6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24' = 2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855.
 Thomas E. Ackerer, P.E., PTOE #18592 DATE: 04/20/2021

GRAPHIC SCALE IN FEET
 0 5 10 20
 SCALE = 1" = 10'

Call before you Dig
 Call before you UnderGround
 1-702-432-5300

Call Before You Overhead
 1-800-227-2600 1-702-227-2929

Kimley-Horn
 © 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

THOMAS ACKERER
 P.E., PTOE #18592
 CIVIL ENGINEER
 Exp. 12/31/22

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA

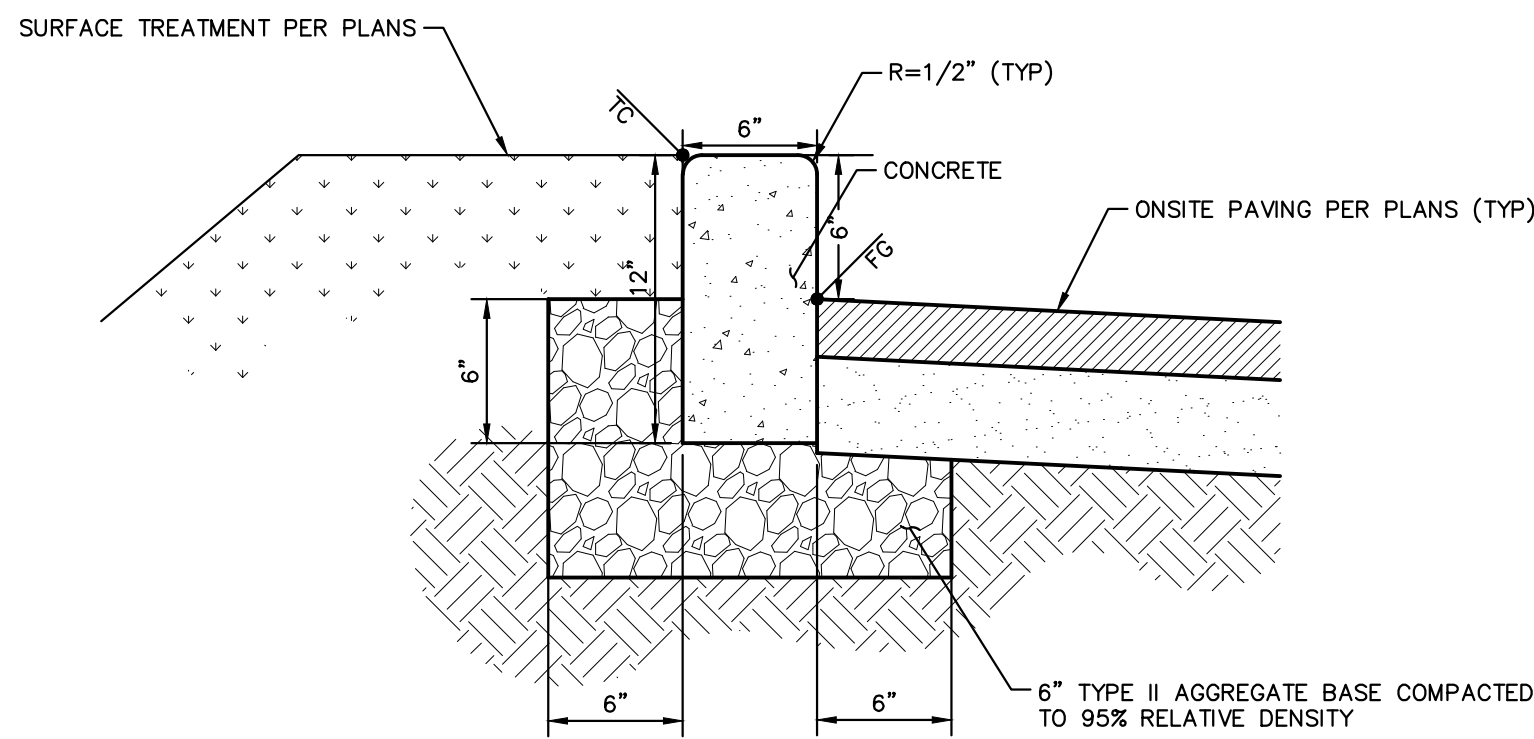
OFFSITE GRADING DETAILS - SHEET 3

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA

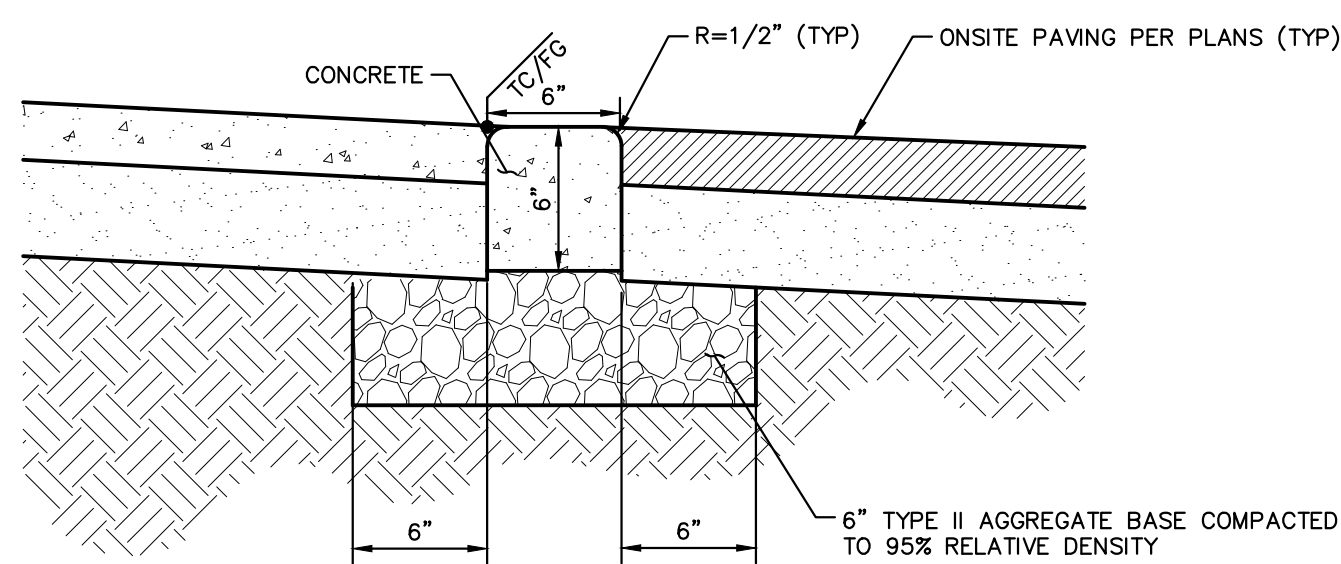
SHEET NUMBER: **DT-03**

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17153 (TDS UPDATE), 19-13855 (TDS UPDATE)

Plotted By: Pflanz, Griffin - Sheet - Set: kha - Layout: DT-04 - K:\LAV_Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bid Alternate\092755002-GD-Det1-Medians.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



1 ONSITE MODIFIED TYPE "A" CURB
 DETAIL NTS



2 FLUSH CURB
 DETAIL NTS

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER: TERRACON CONSULTANTS, INC.
 DATED: MARCH 16, 2007 OCTOBER 6, 2015 JUNE 15, 2016 DECEMBER 27, 2016
 PROJECT No: 64065098 (ORIGINAL) 64155023 (UPDATE) 64155023 (ADDM #1) 64155023 (UPDATE)

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INDICATES THAT THE SITE IS LOCATED IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP (FIRM) No. 32003C2170F AS SHOWN ON THE FIRM INDEX, REVISED NOVEMBER 16, 2011. ZONE "X" IS DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 9SWW6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24' = 2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

GRAPHIC SCALE IN FEET
 0 5 10 20
 SCALE = 1:10
 NORTH
 Call before you Dig
 Call before you UnderGround
 Call Before You Overhead
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

NO.	REVISIONS	DATE	BY
2	REVISED PER REVISION No. 2	11/13/2019	KH
1	ISSUED FOR CONSTRUCTION	10/23/2019	KH

Kimley & Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER
 THOMAS ACKERET
 Exp. 12/31/20
 CIVIL
 No. 18592

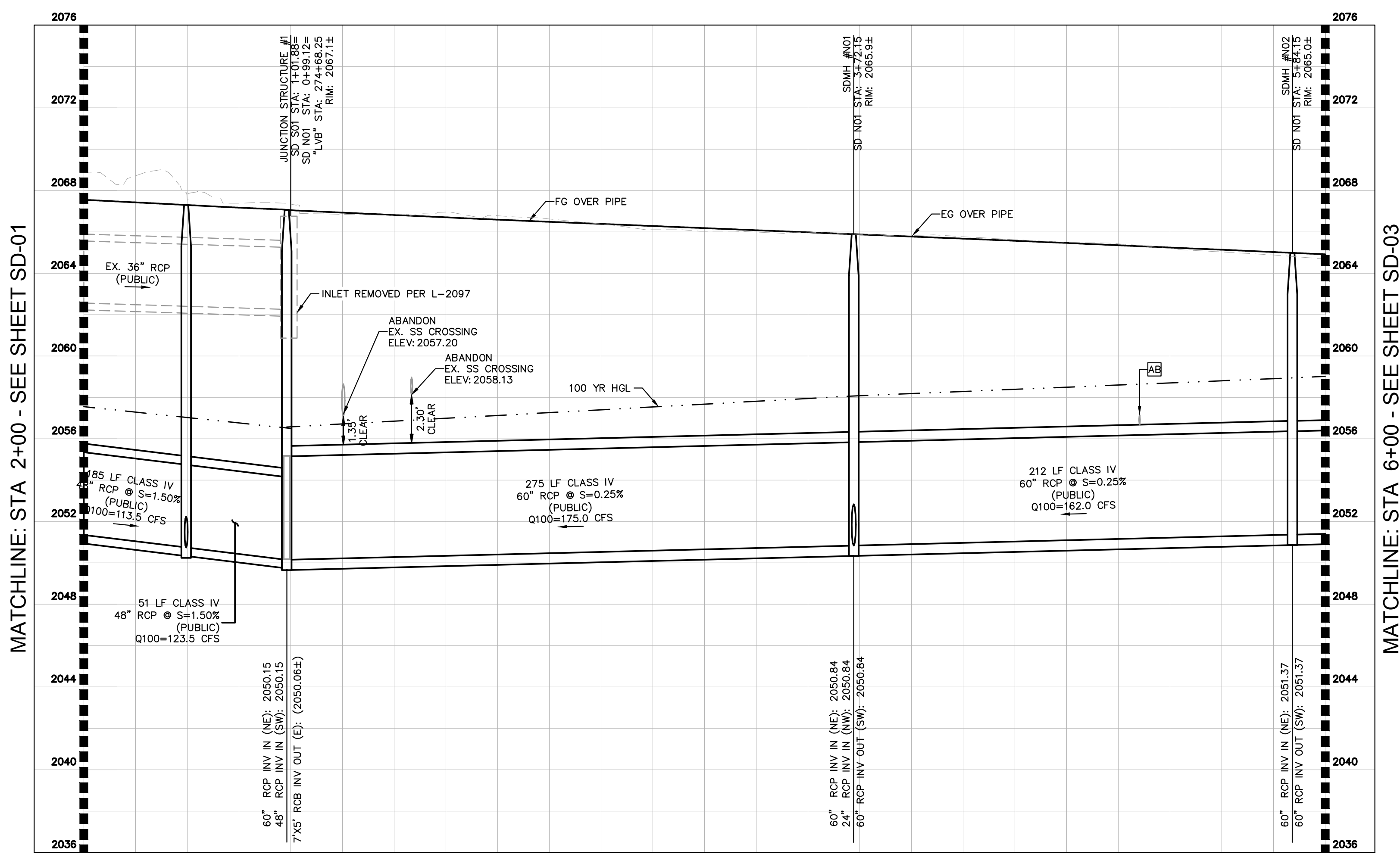
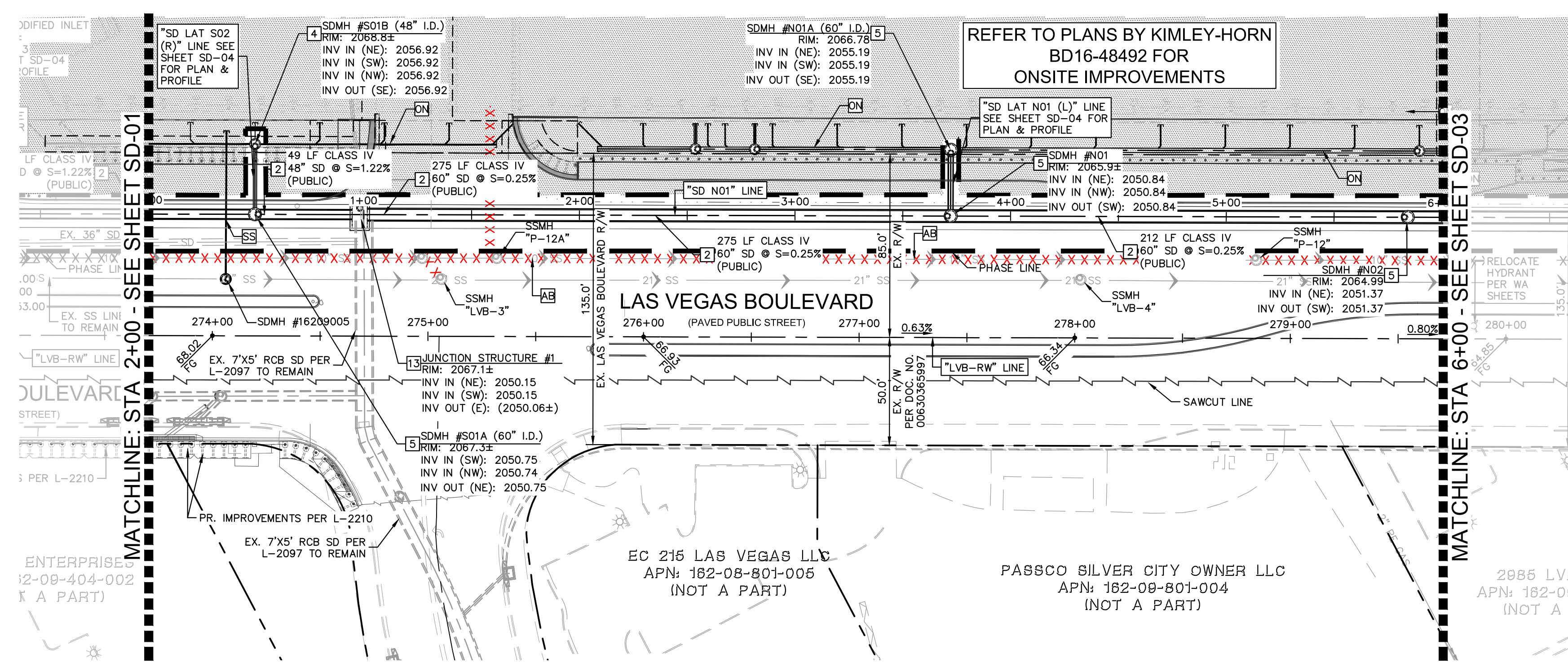
KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092755002	10/23/2019	AS SHOWN	TEA	SIM	RAM

**OFFSITE GRADING
 DETAILS - SHEET 4**

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA
 SHEET NUMBER
DT-04

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 ISSUED FOR CONSTRUCTION
 19-13855 (TDS UPDATE), 19-13855 (TDS UPDATE), 18-10624 (TDS UPDATE), 18-10624 (TDS UPDATE), 18-10624 (TDS UPDATE), 18-10624 (TDS UPDATE)

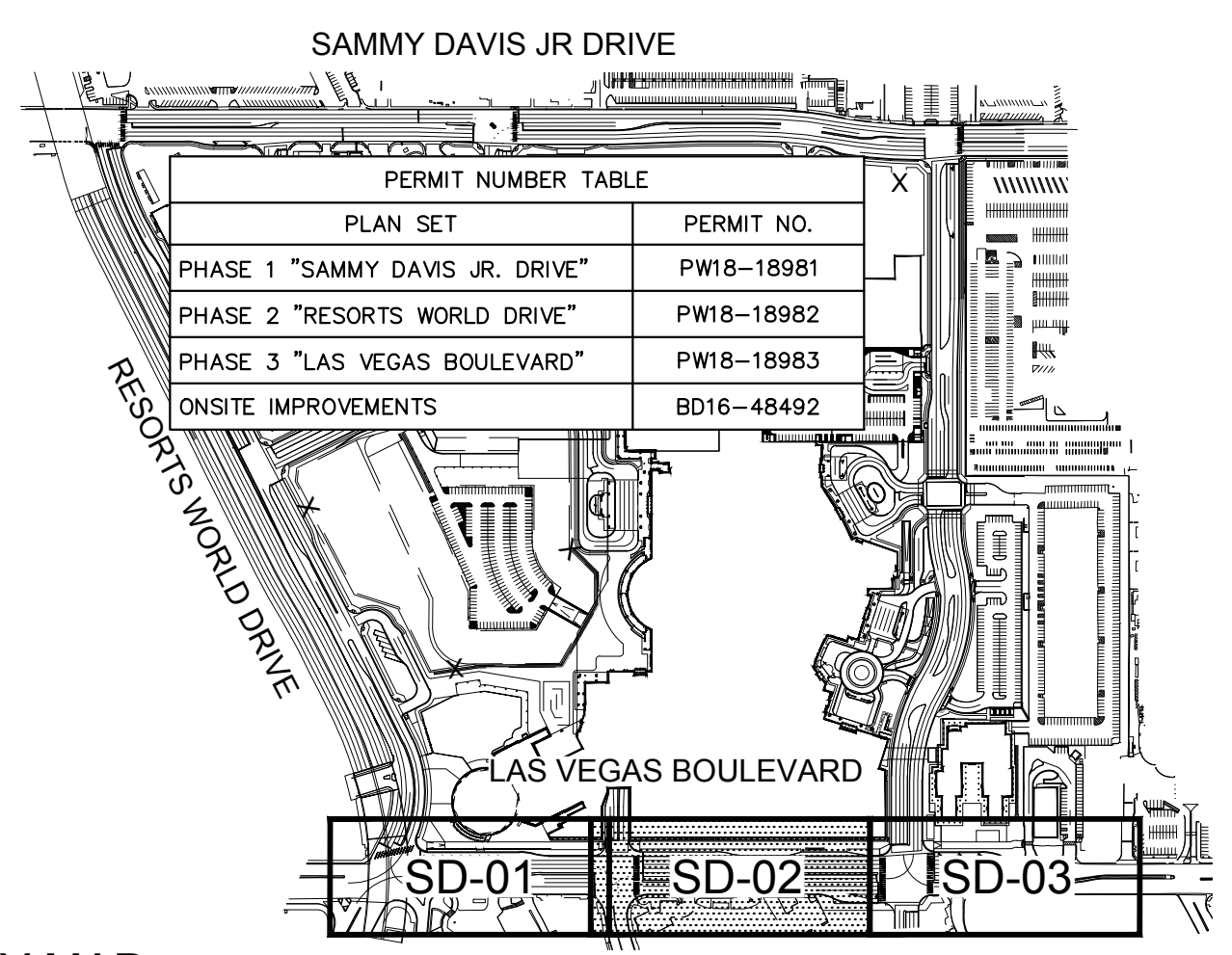
Plotted By: Pflanz, Griffin, Sheet: SD-02, K:\LAV-Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bld Alternate\092755002-SD-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SD-N01
(LAS VEGAS BLVD)

CLARK COUNTY WATER RECLAMATION DISTRICT
DATE
CWWP PIPES #19,949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 136077 FIRST APPROVED DATE



KEY MAP
NTS

GENERAL NOTES

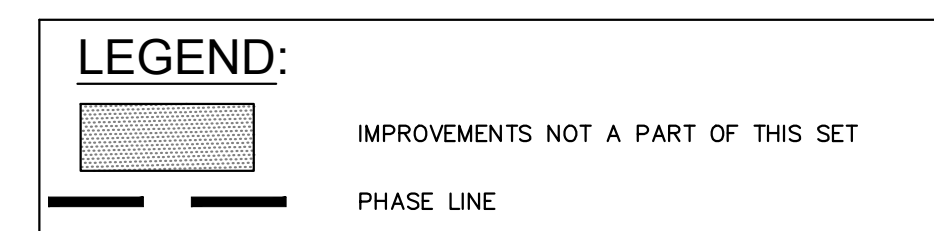
1. THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
3. ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
4. THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
5. ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
6. REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.
7. DESIGN INVERTS SPECIFIED ON PLANS ARE AT THE CENTER OF THE STRUCTURE. REFER TO DETAIL 1 ON SHEET SD-08 FOR ADDITIONAL CLARIFICATION.

GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
ENGINEER: TERRACON CONSULTANTS, INC.
DATED: 05/16/2007 (ORIGINAL), 10/06/2015 (UPDATE), 12/27/2016 (UPDATE)
PROJECT No: 64065098 (ORIGINAL), 64155023 (UPDATE)

STORM DRAIN NOTES

2. INSTALL RCP STORM DRAIN PIPE WITH EXCAVATION, BACKFILL AND TYPE 2 BEDDING PER CCAUSD No. 503, CLASS, SIZE, LENGTH AND SLOPE AS NOTED ON PLAN. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
4. INSTALL TYPE I STORM DRAIN MANHOLE PER CCAUSD No. 403, COLLAR PER CCAUSD No. 408, COVER PER CCAUSD No. 409 AND 410. INSIDE DIAMETER (I.D.) AS NOTED ON PLAN. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
5. INSTALL TYPE III STORM DRAIN MANHOLE PER CCAUSD No. 406.1, COLLAR PER CCAUSD No. 408.1, COVER PER CCAUSD No. 409.1 AND 410. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
13. INSTALL CAST-IN-PLACE JUNCTION STRUCTURE PER DETAILS ON SHEETS JS-01 - JS-03. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
- AB. EX. SANITARY SEWER LINE TO BE ABANDONED PER SHEETS SS-04 AND SS-05.
- SD. ONSITE STORM DRAIN PER SHEETS BD18-36159.
- SS. PR. SANITARY SEWER PER SS-02 AND SS-03.



BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "7C11 9SWW6"
RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
ELEVATION = 637.459 METERS
2091.40 FEET
CONVERSION TO 2018 BENCHMARK:
637.459 - 0.073m = 637.386 METERS
2091.40 - 0.24 = 2091.16 FEET
CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°58'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855
THOMAS E. ACKERET, P.E., PTOE #18592
11/13/2019
DATE

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
Acceptance of plans for filing
By _____
Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state or county laws and/or specifications. Clark County shall be held free from damages which may result from the construction of the improvements from the engineering design depicted herein.
Note: Power poles and/or other existing facilities not in proper location based on proposed improvements shown herein will be relocated at no expense to Clark County.

GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL: 1" = 40'
0 2 4 8
VERTICAL: 1" = 4'
Call before you Dig
Call before you UnderGround
Call before you Overhead
1-702-432-5300
1-800-227-2600
1-702-227-2929

Kimley & Horn
© 2019, KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

LAS VEGAS BLVD - SD N01 STA 1+00 - 6+00

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

CLARK COUNTY NEVADA

PERMIT NUMBER TABLE

PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

REVISIONS

No.	REVISIONS	DATE	BY
2	REVISED PER REVISION No. 2	11/13/2019	KH
1	ISSUED FOR CONSTRUCTION	10/23/2019	KH

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

ISSUED FOR CONSTRUCTION

11/13/2019

THOMAS ACKERET
Exp. 12/31/20
CIVIL
Professional Seal No. 18592

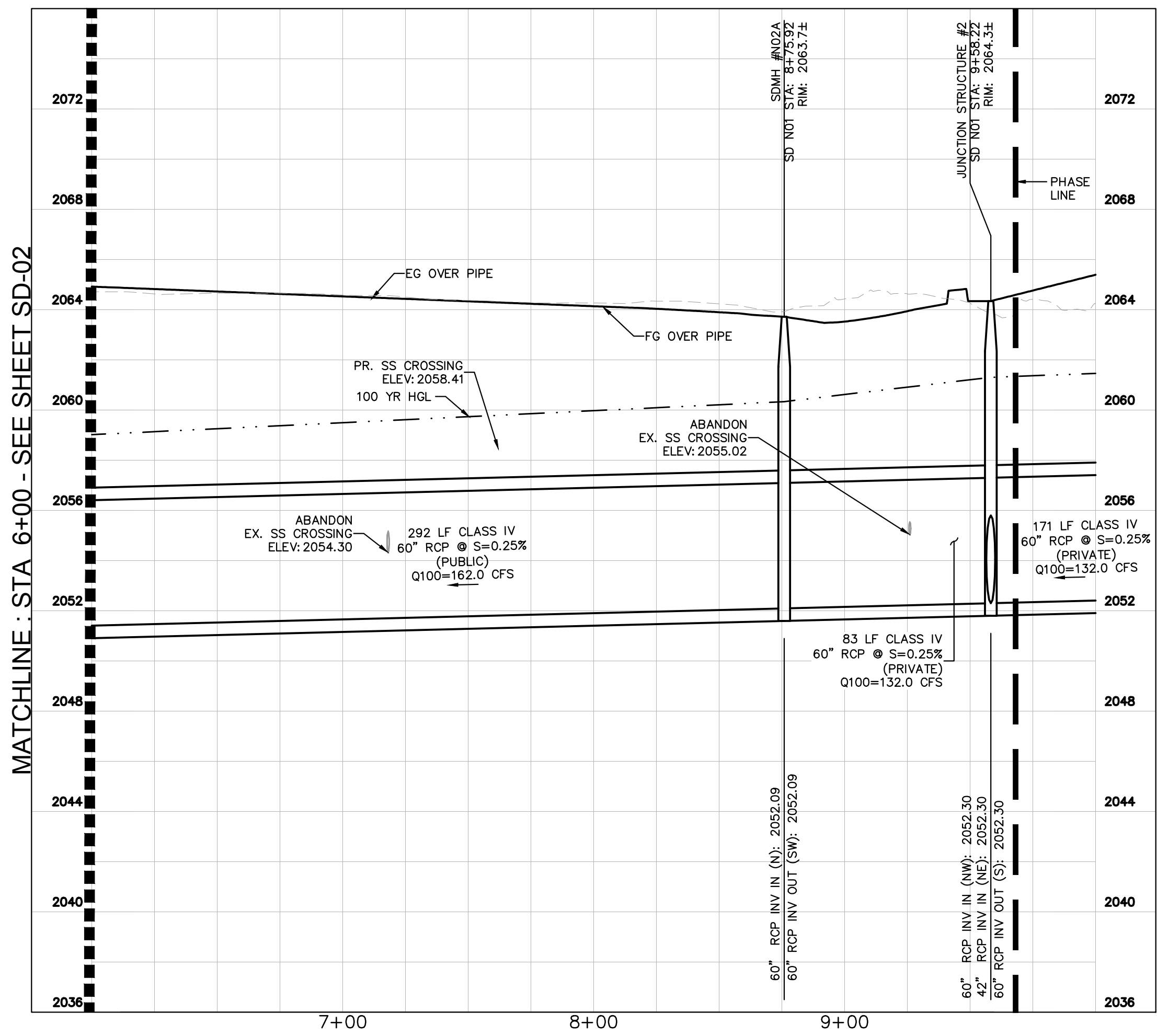
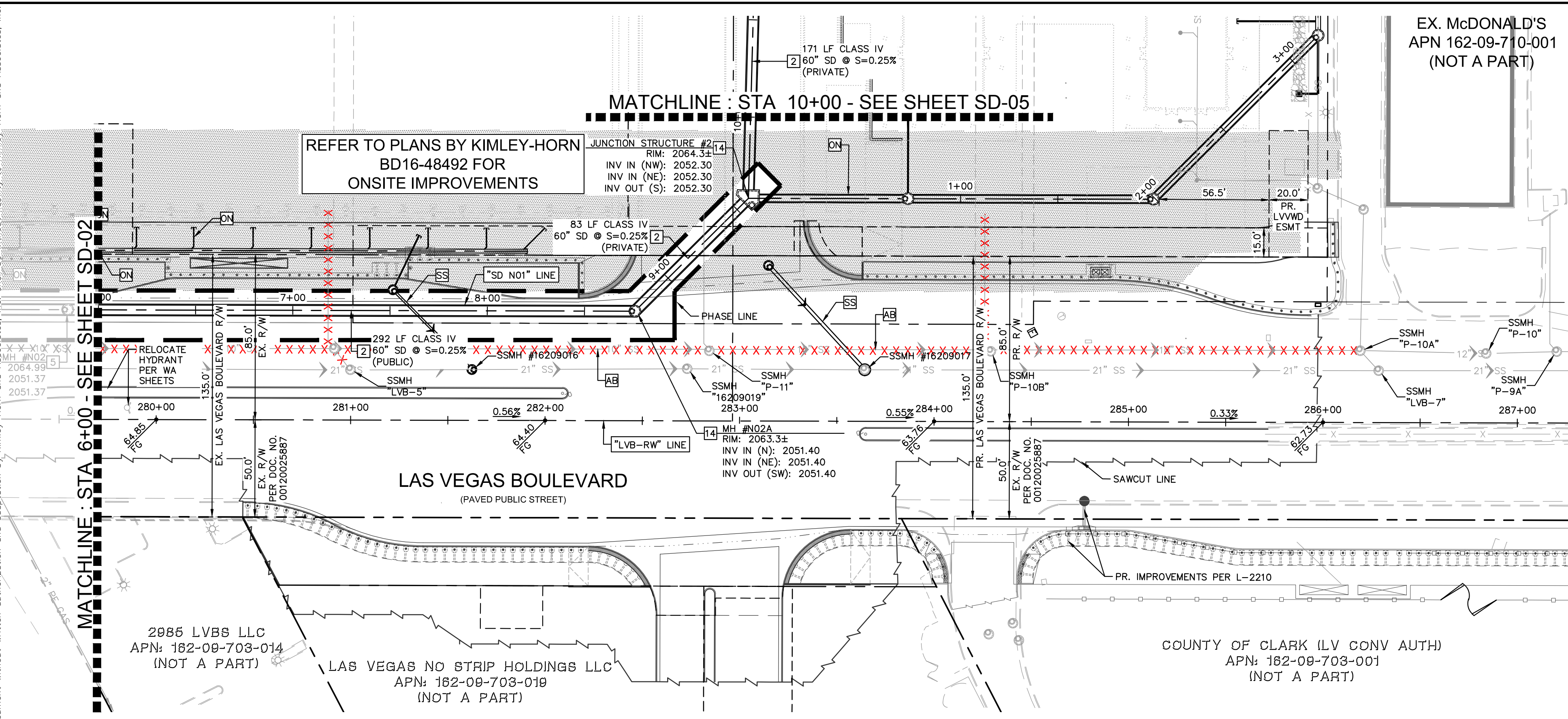
KHA PROJECT 092755002
DATE 10/23/2019
SCALE AS SHOWN
DESIGNED BY TEA
DRAWN BY SIM
CHECKED BY RAM

SD-02

SHEET NUMBER
SD-02

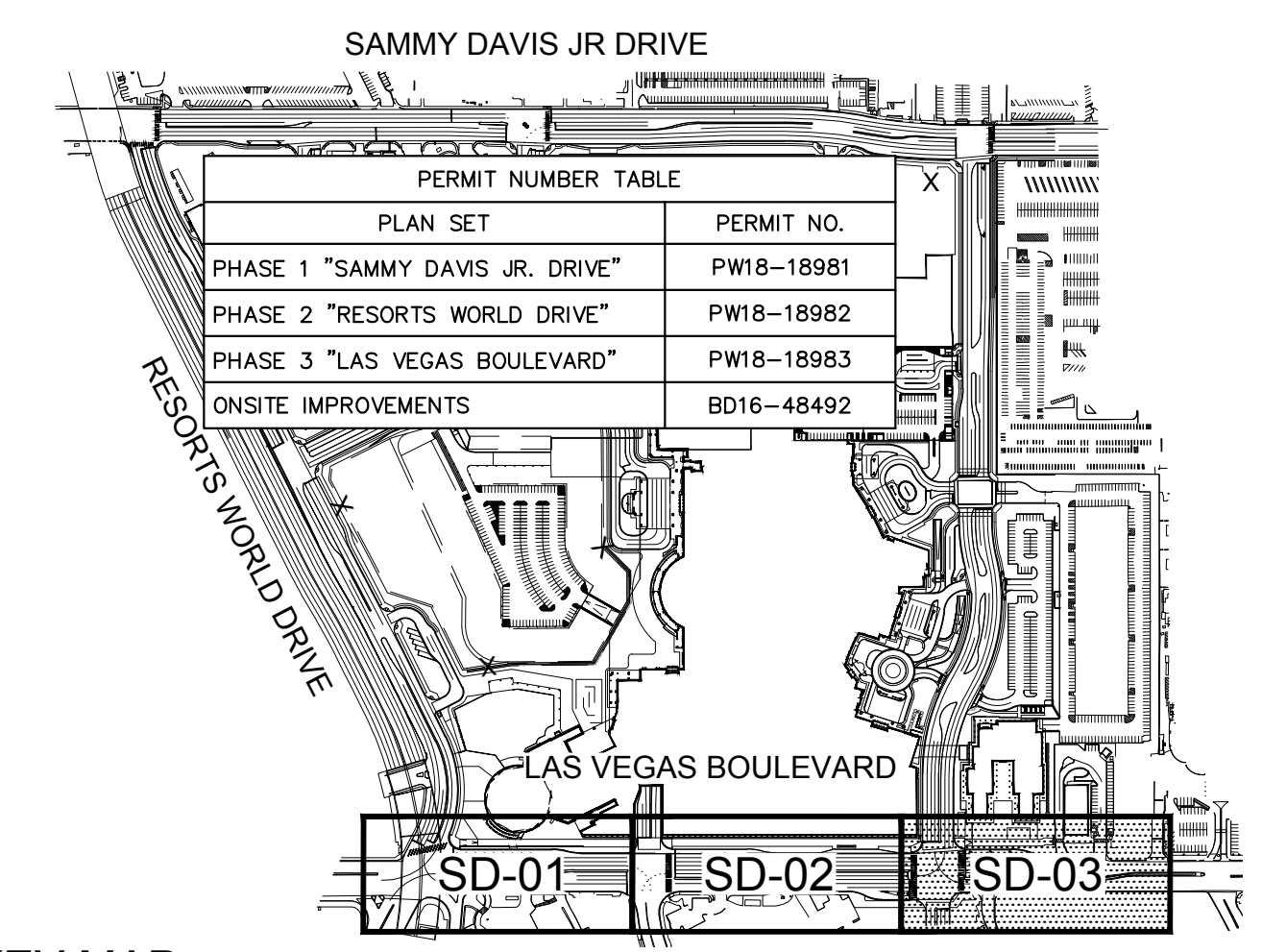
SHEET 299 OF 345

Plotted By: Elmer, Griffin, Sheet: SD-03, K:\LAV-Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bld Alternate\092755002-SD-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE
 CWNDR PIPES #19.949
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION
 OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT No. 136077 FIRST APPROVED DATE



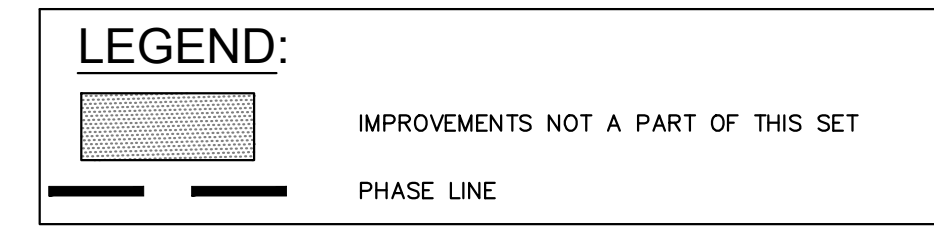
GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EX. GRADES PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN THE FIELD CONDITION AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IS MAINTAINED.
- ALL PAVEMENT SECTIONS SHOWN HEREIN ARE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.
- THE ONSITE STORMWATER CONVEYANCE SYSTEM IS TO BE PRIVATELY MAINTAINED.
- ADD 2000' TO ALL TRUNCATED ELEVATIONS UNLESS OTHERWISE NOTED.
- REFER TO SHEET GN-02 FOR LEGEND AND ABBREVIATIONS.
- DESIGN INVERTS SPECIFIED ON PLANS ARE AT THE CENTER OF THE STRUCTURE. REFER TO DETAIL 1 ON SHEET SD-08 FOR ADDITIONAL CLARIFICATION.

GEOTECHNICAL REPORT
 ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT:
 ENGINEER: TERRACON CONSULTANTS, INC.
 DATED: 05/16/2007 (ORIGINAL), 10/06/2015 (UPDATE), 12/27/2016 (UPDATE)
 PROJECT No: 64065098 (ORIGINAL), 64155023 (UPDATE)

STORM DRAIN NOTES

- INSTALL RCP STORM DRAIN PIPE WITH EXCAVATION, BACKFILL AND TYPE 2 BEDDING PER CCAUSD No. 503. CLASS, SIZE, LENGTH AND SLOPE AS NOTED ON PLAN. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
- INSTALL TYPE III STORM DRAIN MANHOLE PER CCAUSD No. 406.1, COLLAR PER CCAUSD No. 408.1, COVER PER CCAUSD No. 409.1 AND 410. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
- INSTALL TYPE II STORM DRAIN MANHOLE PER CCAUSD No. 405.2, COLLAR PER CCAUSD No. 408.1, COVER PER CCAUSD No. 409.1 AND 410. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
- EX. SANITARY SEWER LINE TO BE ABANDONED PER SHEETS SS-04 AND SS-05.
- ONSITE STORM DRAIN PER SHEETS BD18-36159.
- PR. SANITARY SEWER PER SS-02 AND SS-03.



DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY HTE: 15-54215, 18-10524, 18-17153, & 19-13855
 11/13/2019
 DATE
 THOMAS E. ACKERET, P.E., PTOE #18592

BENCHMARK
 CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 95W6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459-0.073m=637.386 METERS
 2091.40-0.24=2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING
 NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
 Acceptance of plans for filing
 By: _____
 Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state or county laws and/or specifications. Clark County shall be held free from damages which may result from the construction of the improvements from the engineering design depicted herein.
 Note: Power poles and/or other existing facilities not in proper location based on proposed improvements shown hereon will be relocated at no expense to Clark County

GRAPHIC SCALE IN FEET
 HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'
 NORTH

Call before you Dig
 Avoid calling underground utility lines. It's costly.
 Call before you UnderGround
 1-702-432-5300
 FREELY AND OPENLY UNDERGROUND
 Call before you Overhead
 1-800-227-2600 1-702-227-2929

Kimley-Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

THOMAS ACKERET
 CIVIL ENGINEER
 No. 18592
 11/13/2019

KHA PROJECT 092755002
 DATE 10/23/2019
 SCALE AS SHOWN
 DESIGNED BY TEA
 DRAWN BY SIM
 CHECKED BY RAM

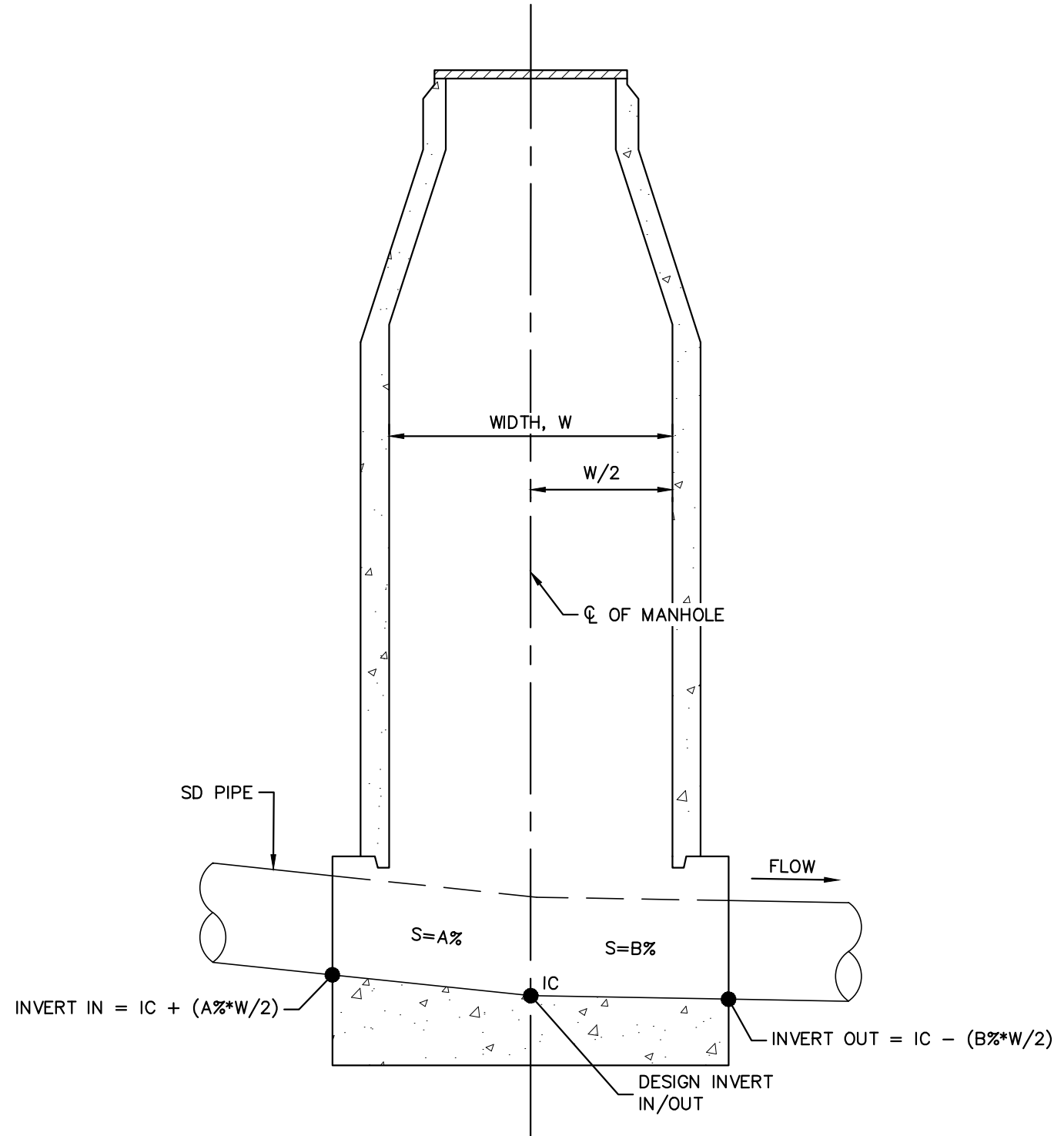
LAS VEGAS BLVD - SD
N01 STA 6+00 - 10+00

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

SHEET NUMBER
SD-03
 SHEET 300 OF 345

REVISIONS
 NO. DATE BY
 2 11/13/2019 KH
 1 10/23/2019 KH
 1 10/23/2019 KH
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 ISSUED FOR CONSTRUCTION
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

Plotted By: Pflanz, Griffin - Sheet Set: KHA - Layout: SD-08 K:\LAV-Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bid Alternate\092755002-SD-LV8-Laterals.dwg
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



1
 -
STORM DRAIN MANHOLE INVERT DIAGRAM
 DETAIL NTS

Call before you Dig
 1-702-432-5300
 FREQUENTLY ASKED QUESTIONS OF TRANSPORTATION PARTS

Call 811
 1-800-227-2600

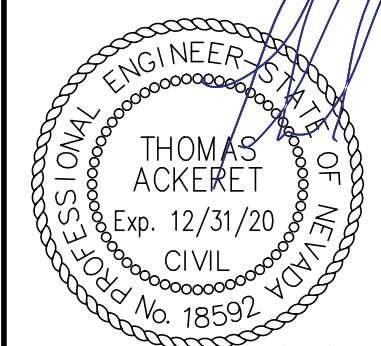
Call Before You Overhead
 1-702-227-2929

Call before you Dig
 Avoid calling underground utility lines. It's costly.
 Avoid overhead power line contact. It's costly.

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
 PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

STORM DRAIN
DETAILS

KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SIM
CHECKED BY	RAM



Kimley-Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

No.	REVISIONS	DATE	BY
2	REVISED PER REVISION No. 2	11/13/2019	KH
1	ISSUED FOR CONSTRUCTION	10/23/2019	KH

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 19-13855 (TDS UPDATE), 19-13855 (TDS UPDATE), 18-10624 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 18-17163 (TDS UPDATE)

Plotted By: Abunkhella, Ahmed Sheet: K:\pdx-structure\092755002-riv-tunnel-structure\092755002-02.dwg
 This document, together with the concepts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

I - GENERAL

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY DISCOVERED BETWEEN DRAWINGS IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK.
- NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE, VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION OR THE SCOPE OF THE CONTRACT.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTORS MEANS OR METHODS OF CONSTRUCTION.
- SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTORS. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS AND STRUCTURES.

II - FOUNDATION

- FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORTS AND ADDENDUMS PREPARED BY:
 COMPANY: TERRACON CONSULTANTS, INC.
 ADDRESS: 750 PILOT ROAD, SUITE F
 LAS VEGAS, NEVADA 89119
 TERRACON PROJECT NO. 64155023
 10/06/2015 (FINAL REPORT),
 6/15/2016 (ADDENDUM #1),
 6/16/2016 (ADDENDUM #2),
 6/17/2016 (ADDENDUM #3)
 12/27/2016 (UPDATE #1)
 05/09/2019 (UPDATE #3)

2. DESIGN INCLUDES SEISMIC LOADING PER THE FOLLOWING DESIGN DATA:

SITE CLASS: C
 SEISMIC DESIGN CATEGORY: C
 BASIC SEISMIC FORCE-RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS
 DESIGN BASE SHEAR: 39 KIP/LF
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE ANALYSIS
 RISK CATEGORY: II
 SEISMIC IMPORTANCE FACTOR: $I_e = 1.00$
 $C_s = 0.124$, $R = 3$
 $S_a = 0.465g$, $S_1 = 0.160g$
 $S_{D1} = 0.372g$, $S_{D2} = 0.175g$

- CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE.
- CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND ANY EXISTING STRUCTURE.
- EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH.
- FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE GEOTECHNICAL ENGINEER, FOOTING ELEVATIONS OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.
- FOOTING BACKFILLED AND UTILITY TRENCH BACKFILLED WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED.

III - CONCRETE

- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE', ACI 318 AND THE 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS', ACI 301, LATEST EDITIONS, WITH MODIFICATIONS AS NOTED ON THE DESIGN DRAWINGS OR SPECIFICATIONS.
- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BEAR THE WET SEAL OF A CIVIL ENGINEER LICENSED IN THE STATE OF THE PROJECT FOR REVIEW BY THE STRUCTURAL ENGINEER. THE MIX DESIGNS SHALL STATE THE PROJECT NAME AND THE INTENDED USAGE OF THE CONCRETE.
- MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-460 SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 8.5.1 OF ACI 318 FOR THE SPECIFIED 28-DAY STRENGTH.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES:

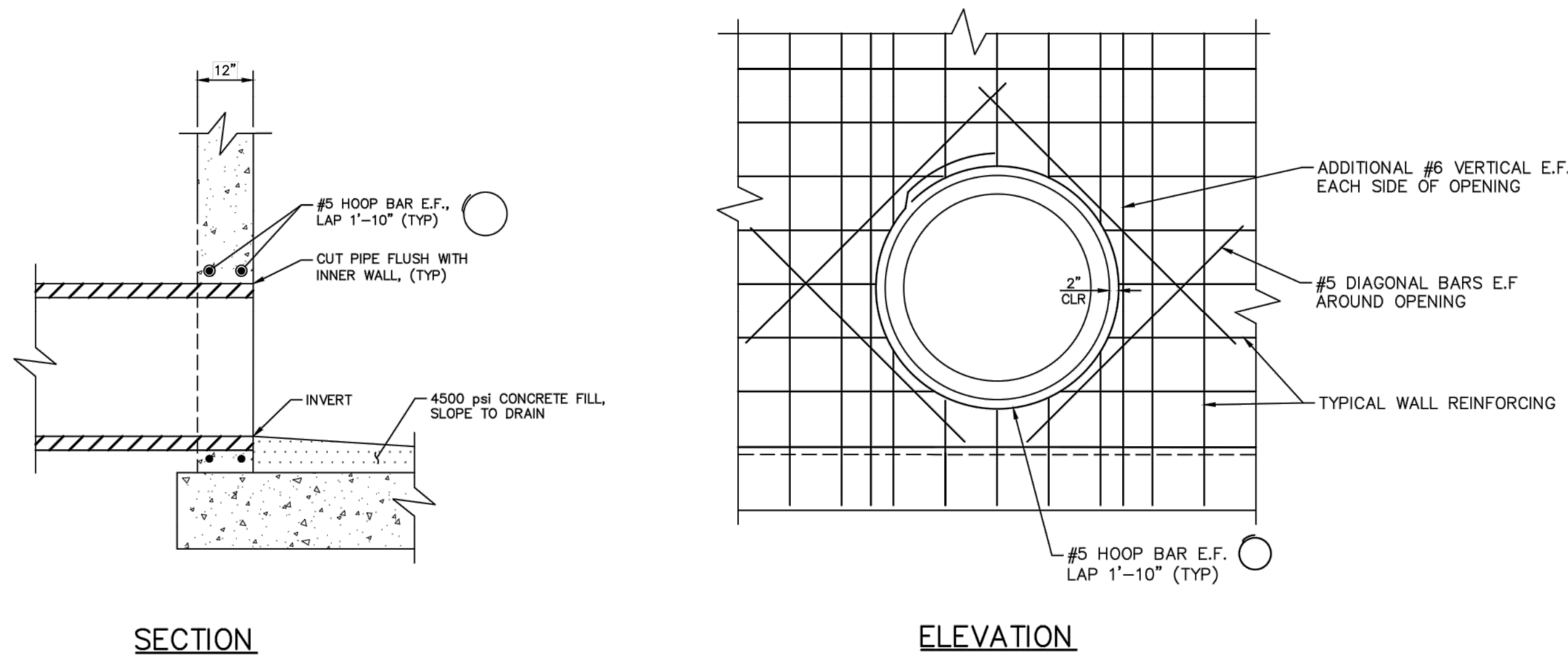
LOCATIONS IN STRUCTURE	STRENGTH (PSI)	TYPE
JUNCTION STRUCTURES	4500	HARD ROCK
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE V.
- CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND THE LOSS OF IGNITION SHALL BE LIMITED TO 2%. THE WEIGHT OF FLY ASH SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH CONFORMS TO THE ABOVE CRITERIA.
- CONCRETE MIXING OPERATIONS, ETC, SHALL CONFORM TO ASTM C-94.
- AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
- REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, U.O.N. IN DRAWINGS:
 CONCRETE POURED AGAINST EARTH 3"
 CONCRETE EXPOSED TO EARTH OR WEATHER 2"
 CLEAR COVER SHALL BE CLEARLY SHOWN ON ALL REBAR SHOP DRAWINGS.
- ALL REINFORCEMENT, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURELY HELD IN POSITION WHILE PLACING CONCRETE. IF NECESSARY, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT.
- LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO DETAILING OF REINFORCING. ALL CONSTRUCTION JOINTS TO BE CLEARLY SHOWN IN REBAR DETAIL DRAWINGS. ENGINEER MAY REQUIRE ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS.

IV - REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318) AND THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' BY CRSI AND WORKS, AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
- DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60, UNLESS NOTED OTHERWISE.
- FOR A615 REINFORCEMENT:
 * THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PAI) AND
 * THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
- WELDING OF REINFORCING SHALL NOT BE ALLOWED.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.
- SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR INFORMATION ONLY. ANY PROPOSED CHANGES TO REINFORCING STEEL SUCH AS SIZE, LOCATION AND SPACING DIFFERENT FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION THROUGH THE RFI PROCESS AND APPROVED PRIOR TO CONSTRUCTION. THE REBAR SHOP DRAWINGS SHALL NOT REPLACE DESIGN DOCUMENTS FOR CONSTRUCTION OR FIELD INSPECTIONS.

V - SPECIAL INSPECTION

- SPECIAL INSPECTION IS REQUIRED OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
- COORDINATE SCHEDULES WITH AGENCY PERFORMING SPECIAL INSPECTION TO INSURE AMPLE TIME IS AVAILABLE TO PERFORMED REQUIRED TASKS.
- SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN ICC CERTIFIED INSPECTOR APPROVED BY CLARK COUNTY, EMPLOYED BY THE OWNER/DEVELOPER.
- PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE FOR THE ITEMS LISTED BELOW.
 a. REINFORCING STEEL PLACEMENT PERIODIC 2012 IBC TABLE 1705.3
 b. CONCRETE PLACEMENT CONTINUOUS 2012 IBC TABLE 1705.3
 c. CONCRETE STRENGTH CONTINUOUS 2012 IBC TABLE 1705.3
 d. EPOXY FASTENED DOWELS AND ANCHOR PERIODIC 2012 IBC TABLE 1705.3
- THE INSPECTOR SHALL SUBMIT A STATEMENT TO THE OWNER/DEVELOPER, AND STRUCTURAL ENGINEER INDICATING COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

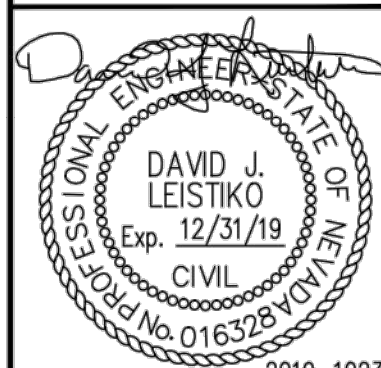


1 PIPE END TREATMENT
 SCALE: N.T.S.

NO.	REVISIONS	DATE	BY
2	REVISED PER REVISION NO. 2	11/13/2019	KH
1	ISSUED FOR CONSTRUCTION	10/23/19	KH

Kimley-Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD., SUITE 300 LAS VEGAS, NV 89119
 PHONE: 702-862-2600
 WWW.KIMLEY-HORN.COM



KHA PROJECT	092755000
DATE	OCTOBER 23, 2019
SCALE	AS SHOWN
DESIGNED BY	D.J.L.
DRAWN BY	CHG
CHECKED BY	K-K

JUNCTION STRUCTURE GENERAL NOTES

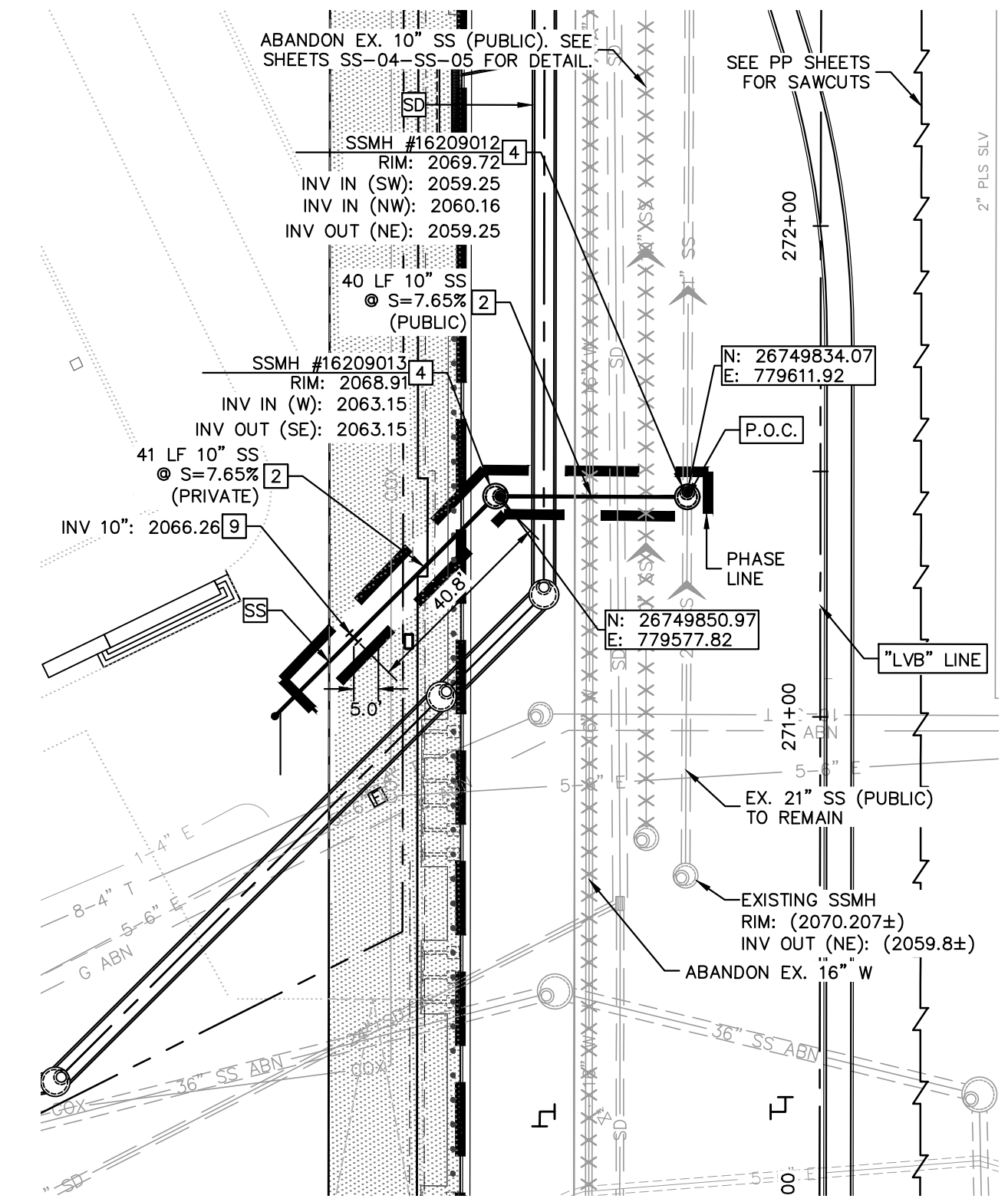
RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

Call before you Dig
 Avoid overtopped power line contact. It's costly.

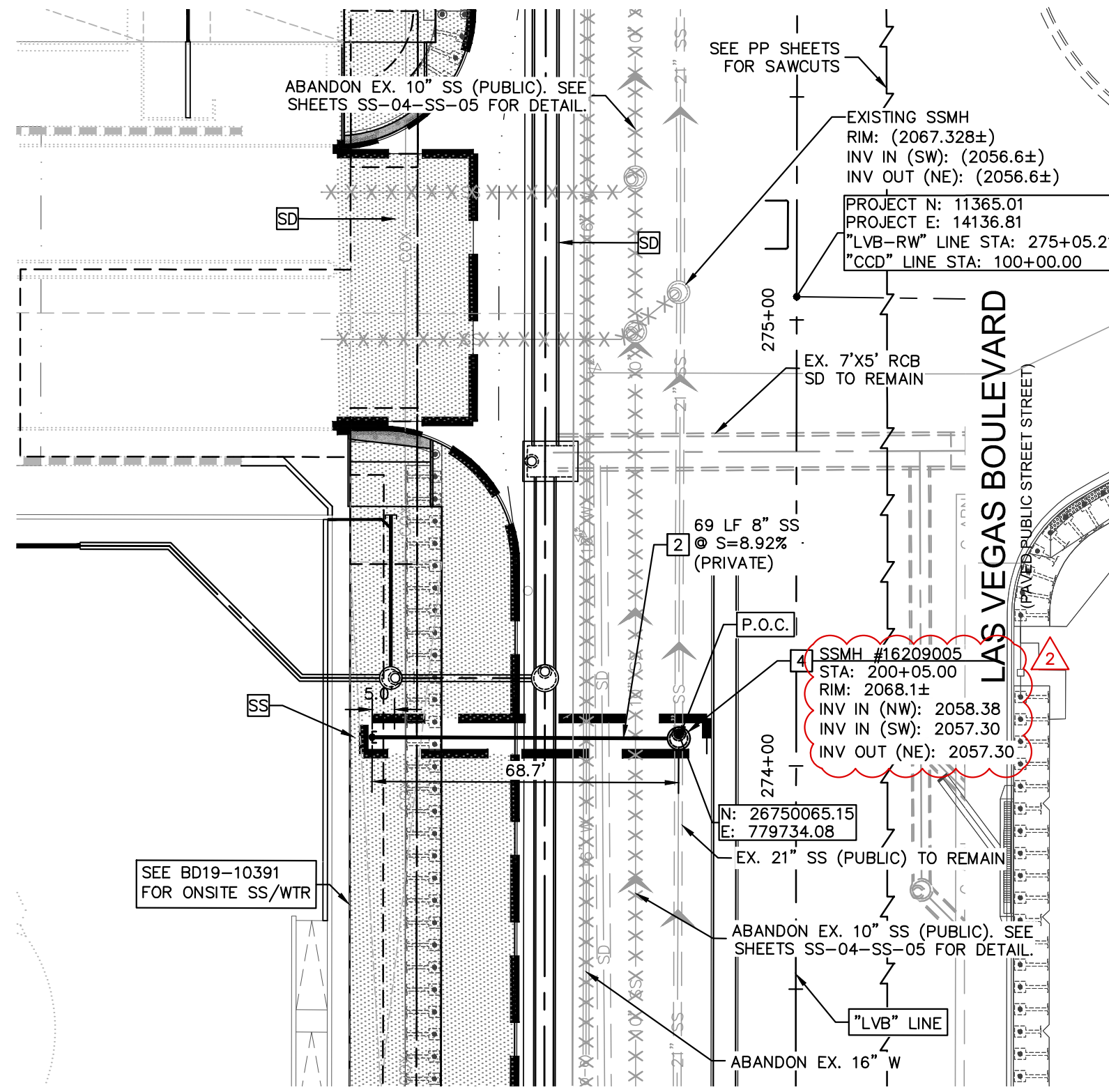
Call before you Dig
 1-702-432-5300

Call before you Overhead
 1-800-227-2600

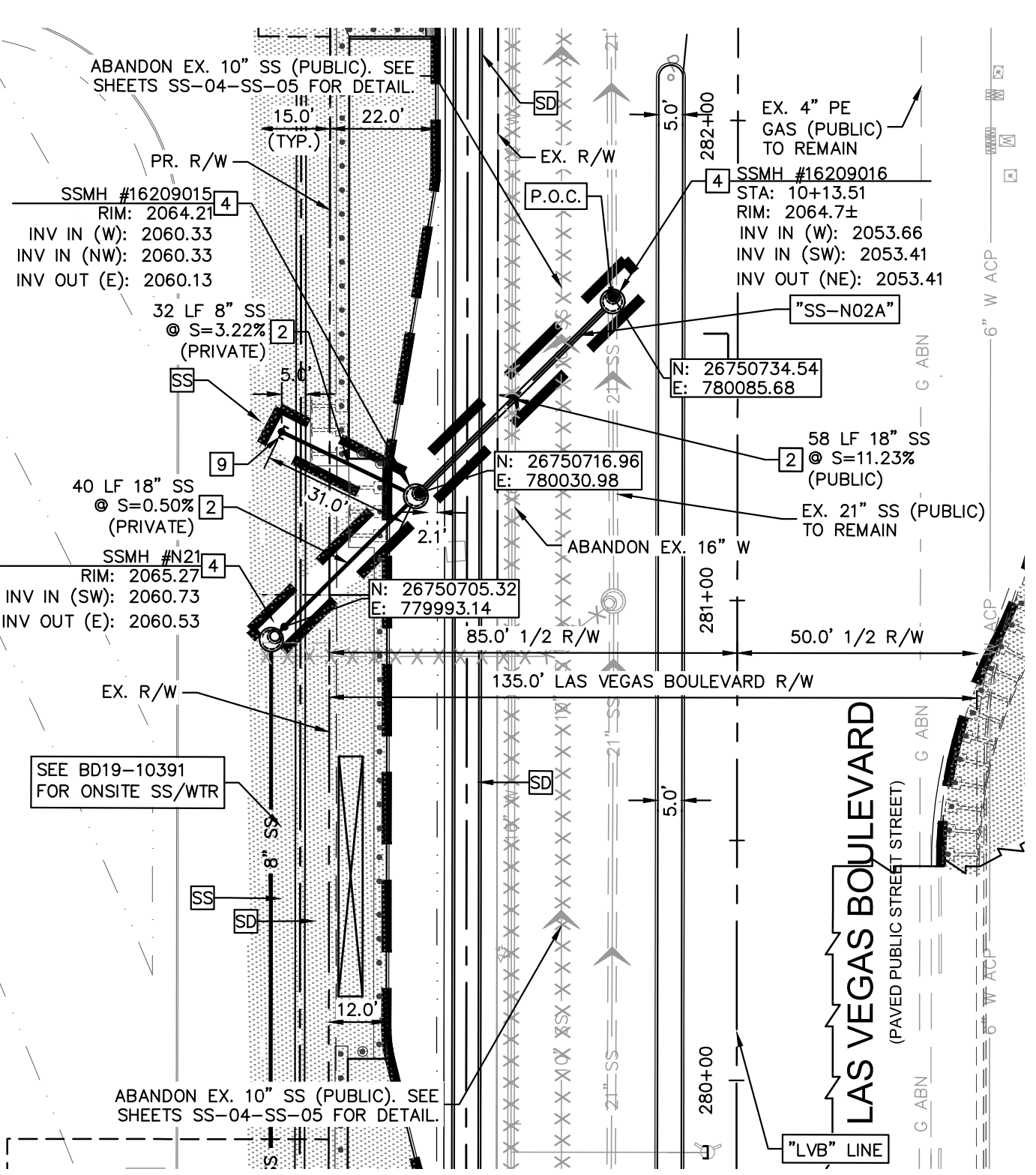
PLOTTED BY: ACKERET, THOMAS - SHEET: SS-02 - K:\LAV-Civil\092755002-Resorts World LV PH1\CAD\PlanSheets\Bld Alternates\092755002-SS.dwg
 THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



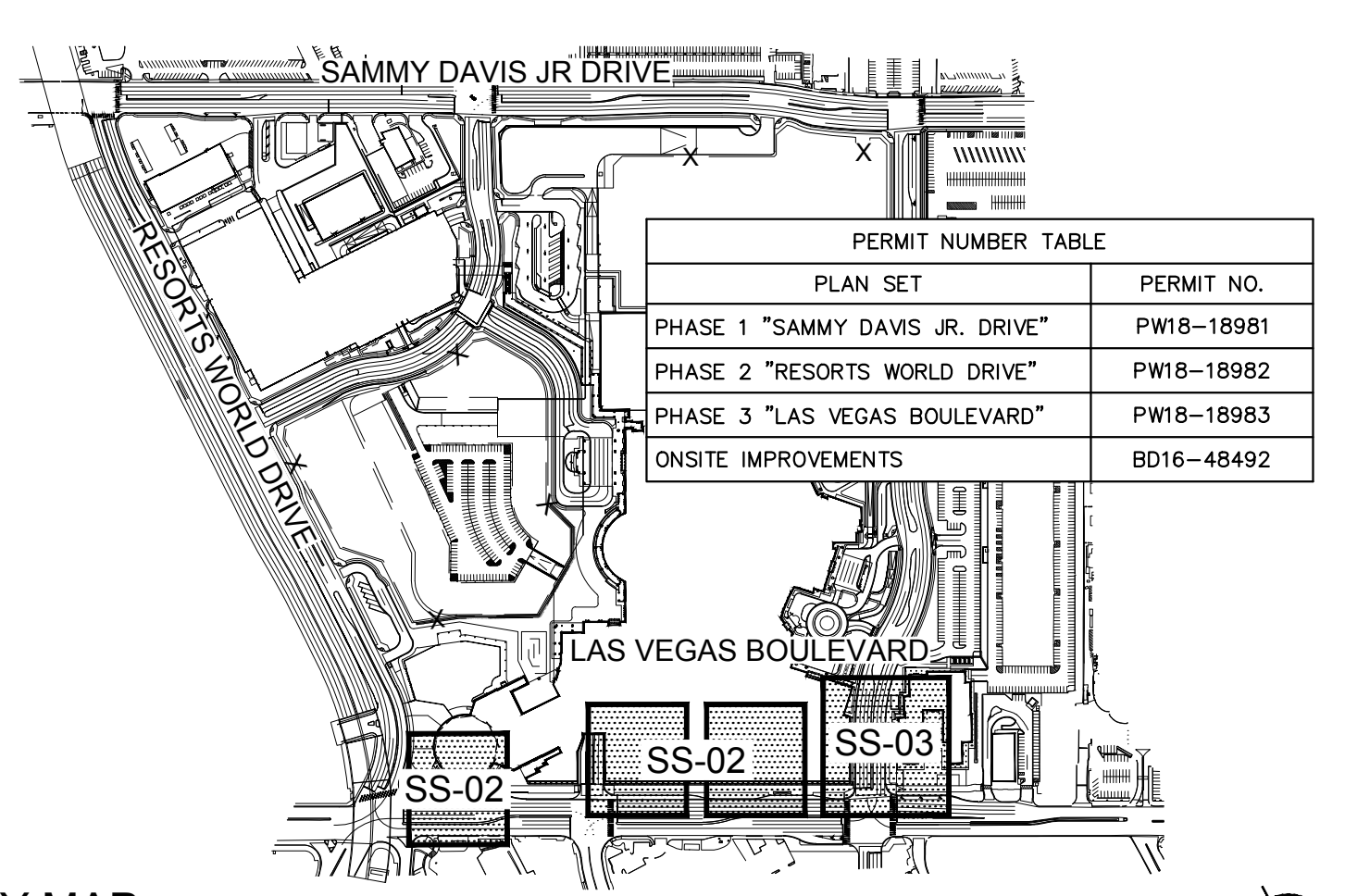
SS-N02C PLAN VIEW
SCALE: 1"=30'



SS-N02B PLAN VIEW
SCALE: 1"=30'



SS-N02A PLAN VIEW
SCALE: 1"=30'



KEY MAP

GENERAL NOTES

- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- REFER TO SHEET GN-02 FOR SEWER QUANTITIES.

SEWER CONSTRUCTION NOTES

- INSTALL SDR-35 PVC SANITARY SEWER LINE PER DCSWCS SD-17, SIZE, LENGTH AND SLOPE AS NOTED PLAN.
- INSTALL CAST-IN-PLACE 72" SANITARY SEWER MANHOLE WITH CORROSION PROTECTION PER DCSWCS (SECTIONS 3.16.8 & 4.9.9) SD-1A, SD-1B, SD-2, SD-7 AND CONCRETE COLLAR PER DCSWCS SD-4. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
- STUB AND CAP FOR FUTURE USE WITH THURST BLOCKS FOR STUBS PER DCSWCS SECTION 2.2.5.
- SHEETS FOR PROPOSED STORM DRAIN DESIGN & ANNOTATION
- PRIVATE SEWER PER BD19-10391

LVVWD APPROVAL

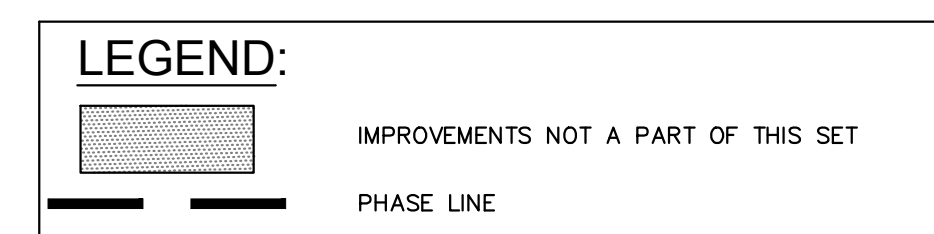
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE

WASTEWATER CALCULATIONS (ALL PHASES, ULTIMATE BUILD-OUT)

REFER TO SHEET SS-01 IN COWRD PIPES #17.115



CCWRD NOTE: LATERAL MARKING REQUIREMENTS

LATERALS SHALL BE MARKED ACCORDING TO THE 2009 DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS STANDARD DRAWING 25. A 3M MARKER BALL IS TO BE INSTALLED OVER THE CONNECTION POINT AT THE MAIN OR MANHOLE. A SECOND MARKER IS TO BE INSTALLED AT THE POINT WHERE THE LATERAL CROSSES THE PROPERTY LINE. A VISUAL MARK IS ALSO REQUIRED. A 3-INCH HIGH "S" STAMPED OR CHISELED INTO THE CONCRETE AT THE POINT DIRECTLY OVER WHERE THE LATERAL PASSES UNDER THE CURB.

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE

CCWRD PIPES #19.949. SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

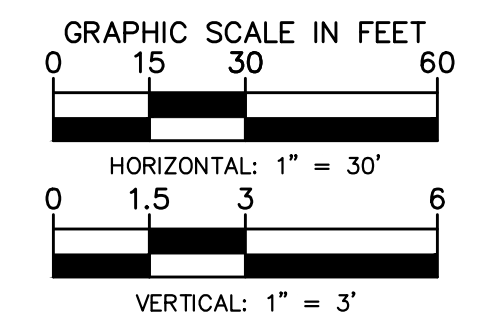
BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 9SW6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

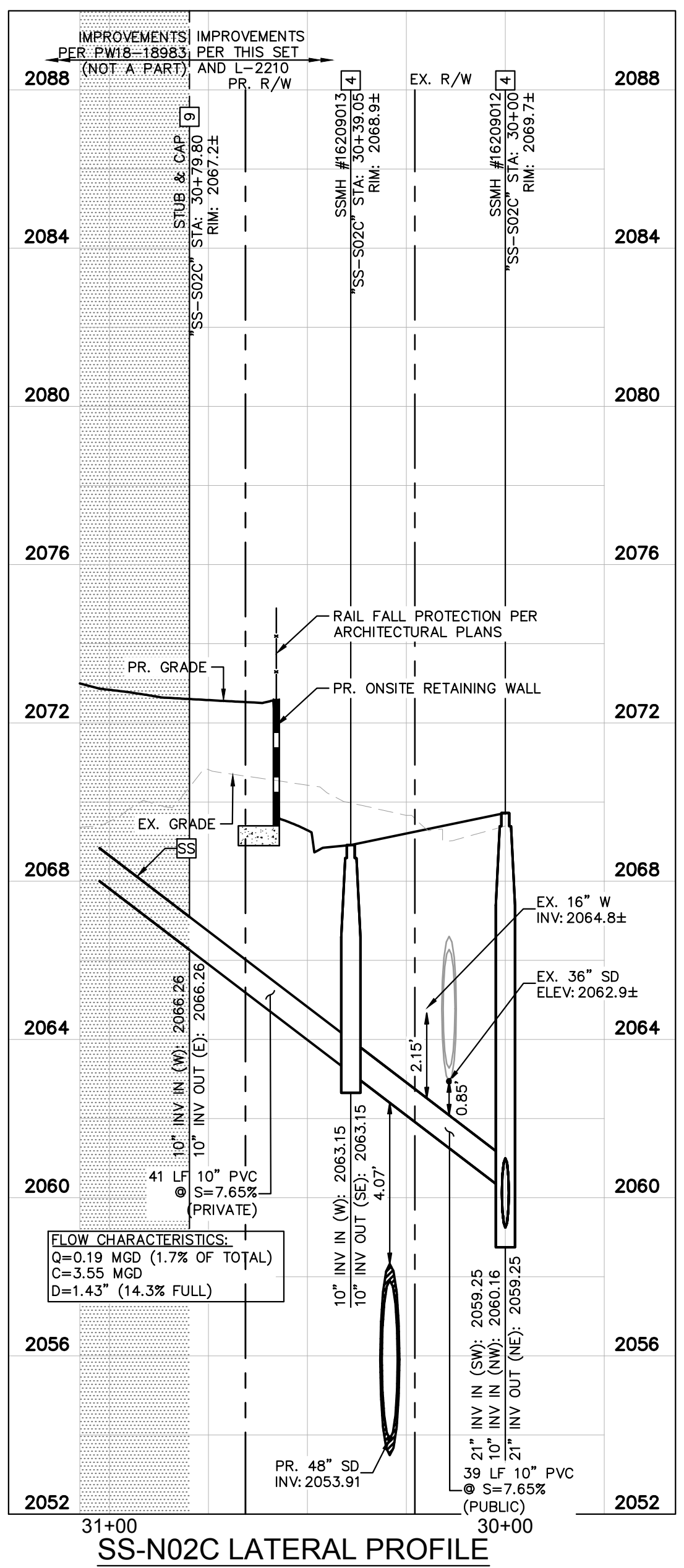


CALL BEFORE YOU DIG. Avoid cutting underground utility lines. It's costly.

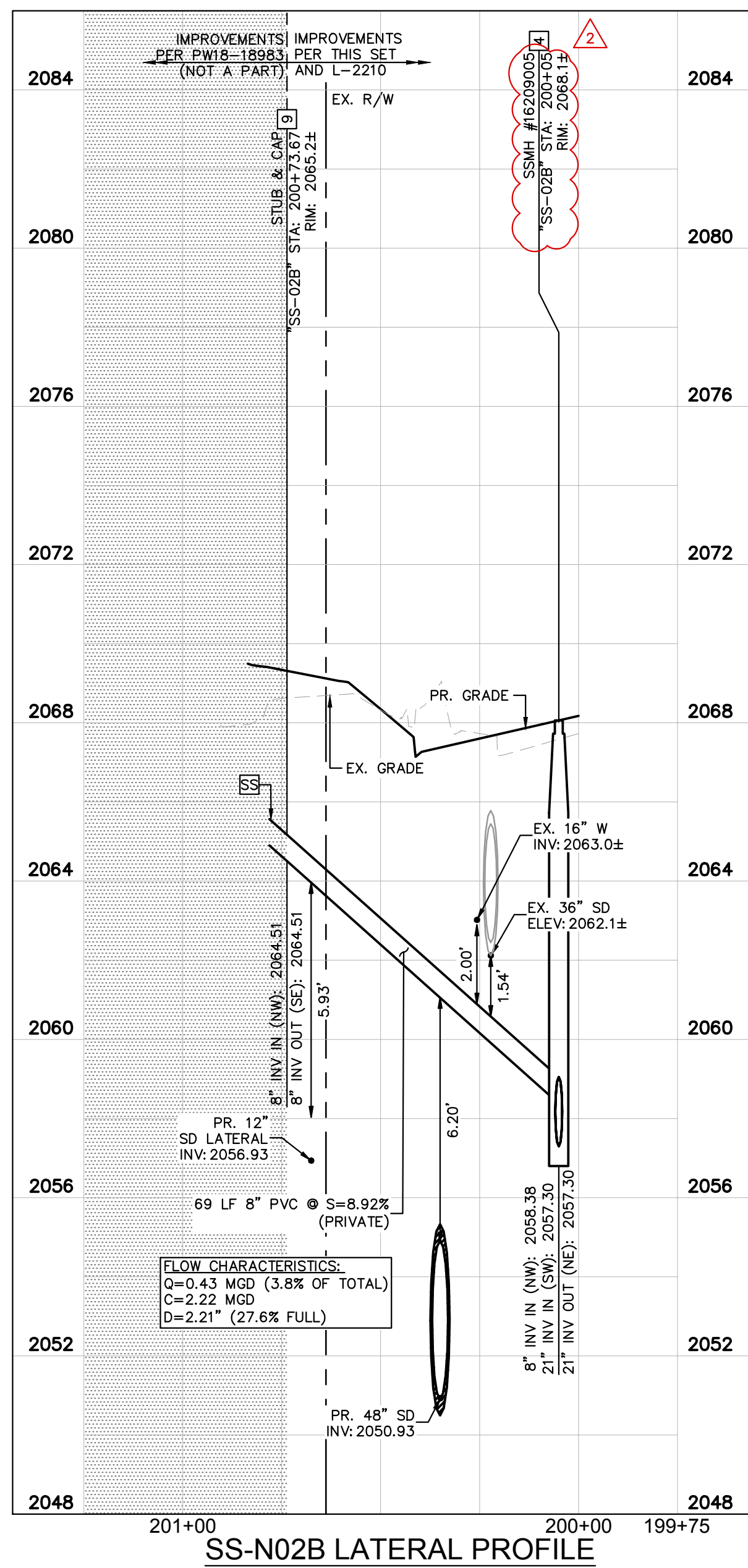
811 Call before you dig. 1-702-432-5300

Call Before You Overhead 1-800-227-2600 1-702-227-2929

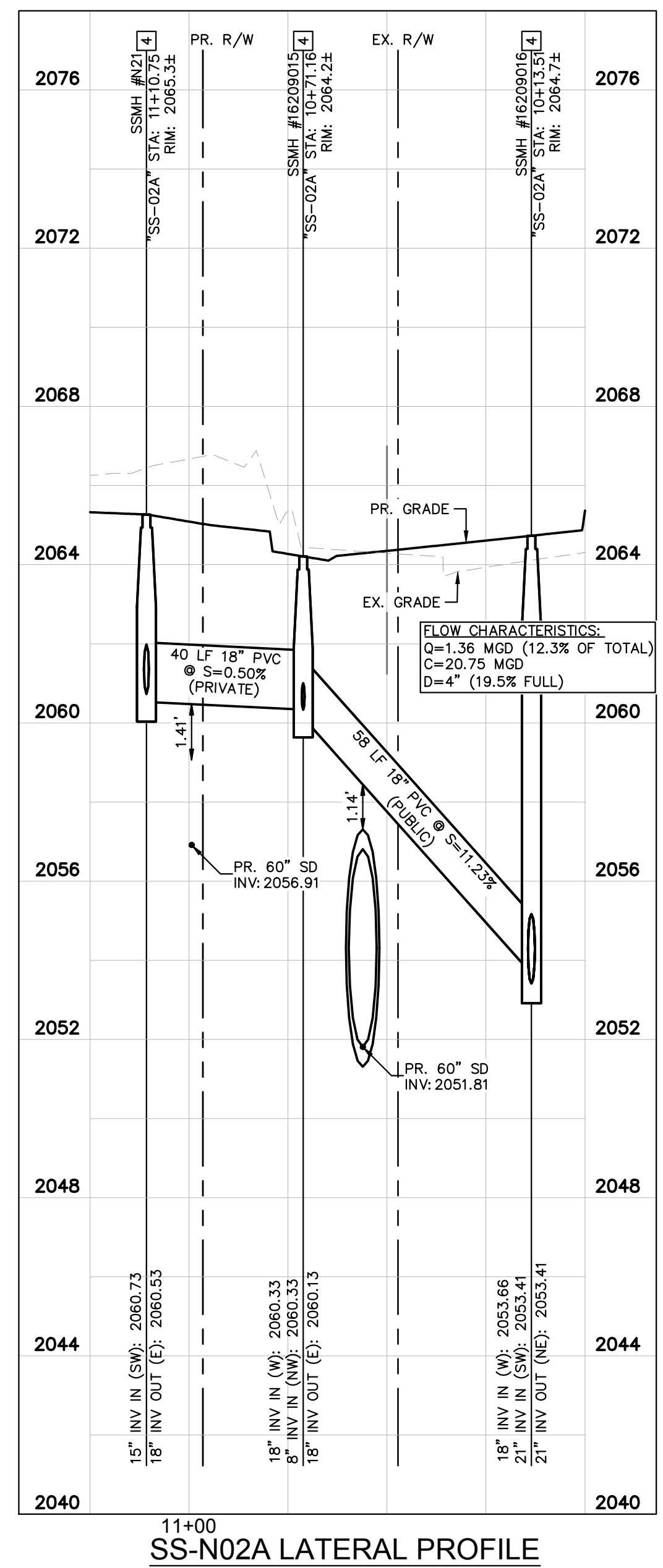
BASIS OF BEARING
NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.



SS-N02C LATERAL PROFILE
SCALE: 1"=30' - HORZ.
1"=3' - VERT.



SS-N02B LATERAL PROFILE
SCALE: 1"=30' - HORZ.
1"=3' - VERT.



SS-N02A LATERAL PROFILE
SCALE: 1"=30' - HORZ.
1"=3' - VERT.

NO.	REVISIONS	DATE	BY
2	REVISED PER REVISION No. 2	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

Kimley & Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

THOMAS ACKERET
Exp. 12/31/20
CIVIL ENGINEER
No. 18592

LAS VEGAS BLVD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) SANITARY SEWER PLAN & PROFILE SHEET

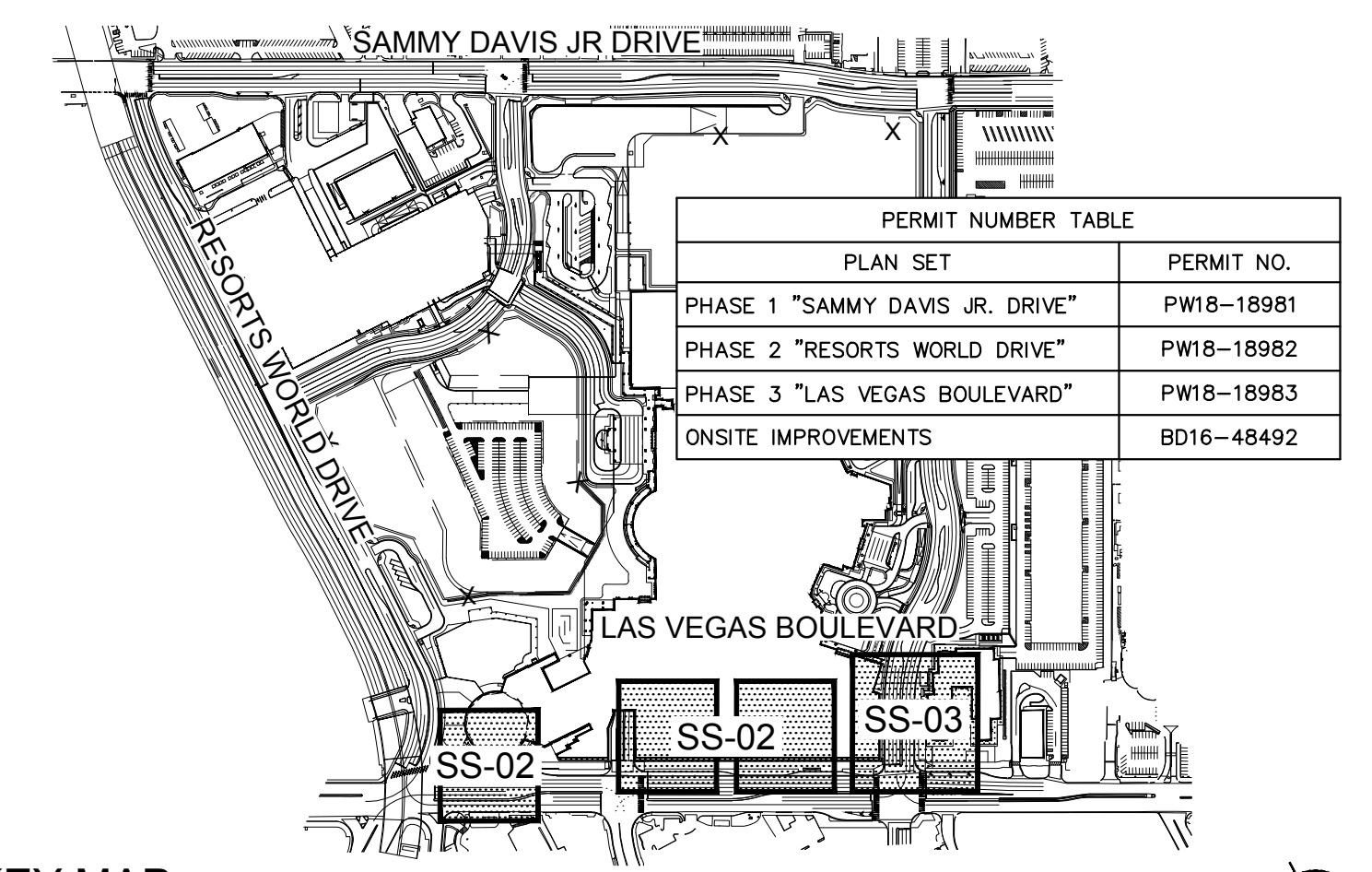
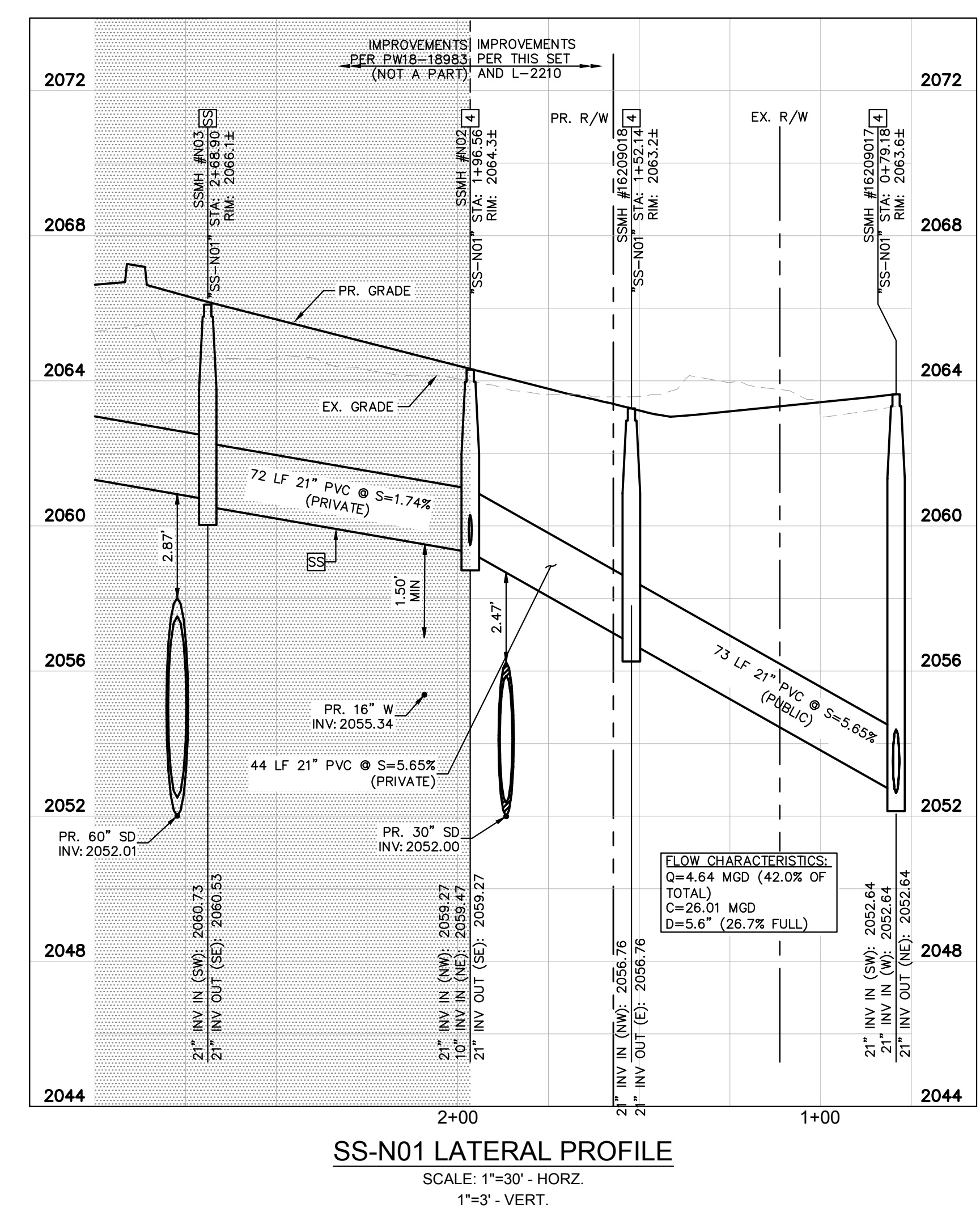
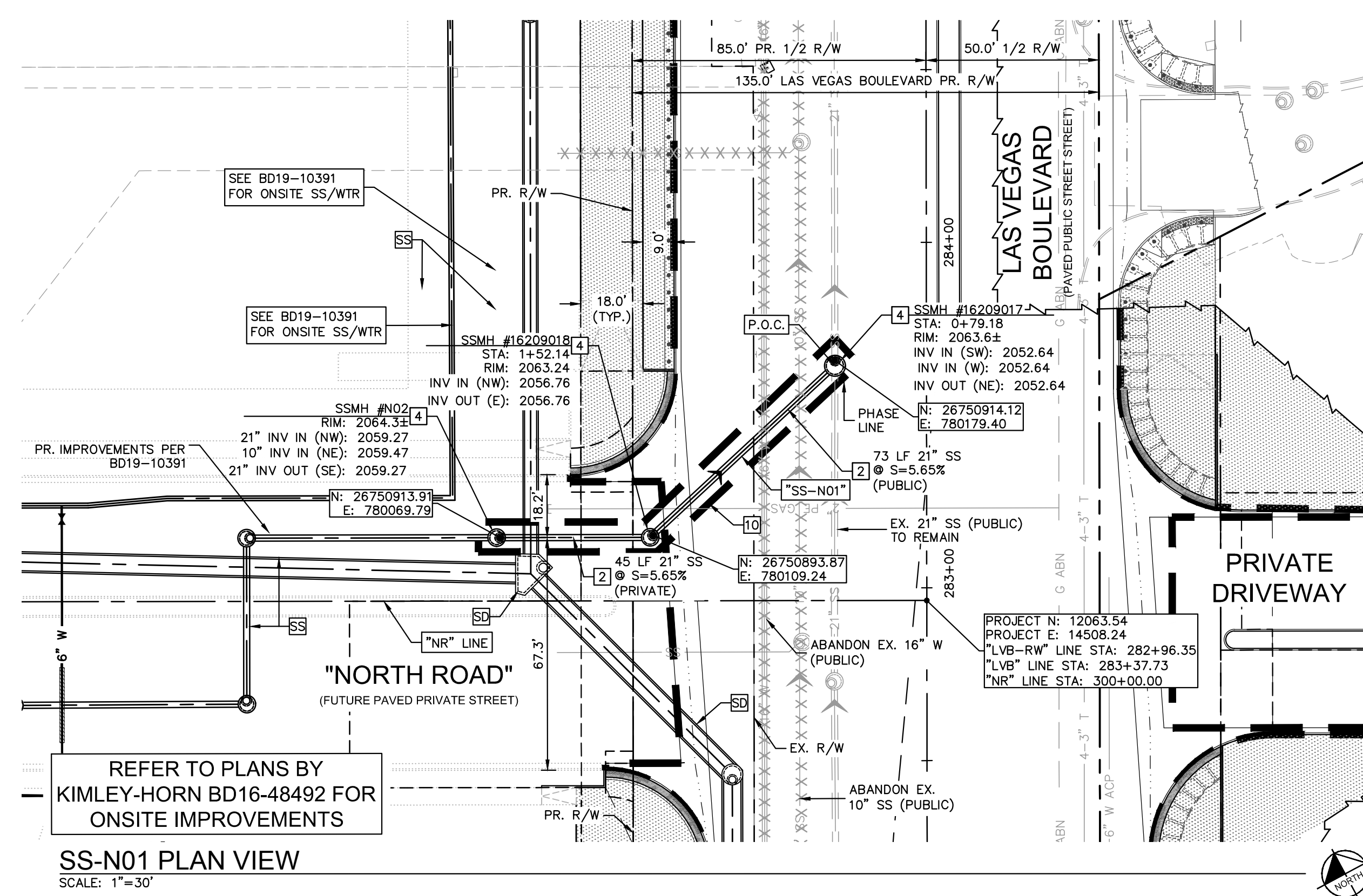
RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

CLARK COUNTY NEVADA

SHEET NUMBER **SS-02**

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 PH 15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE), 19-13865 (TDS UPDATE)

Plotted By: Ackereet, Thomas - Sheet - SS-N01 - Layout-SS-03 - K:\LAV - Civil\092755002-Resorts World LV PH1\CAD\PlanSheets\Bld Alternates\092755002-SS.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- GENERAL NOTES**
- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
 - CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
 - ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
 - REFER TO SHEET GN-02 FOR SEWER QUANTITIES.
- SEWER CONSTRUCTION NOTES**
- [2] INSTALL SDR-35 PVC SANITARY SEWER LINE PER DCSWCS SD-17, SIZE, LENGTH AND SLOPE AS NOTED PLAN.
 - [4] INSTALL CAST-IN-PLACE 72" SANITARY SEWER MANHOLE WITH CORROSION PROTECTION PER DCSWCS (SECTIONS 3.16.8 & 4.9.9) SD-1A, SD-1B, SD-2, SD-7 AND CONCRETE COLLAR PER DCSWCS SD-4. ALL CEMENT SHALL BE TYPE V OR TYPE II POZZOLAN PER CORROSION CONTROL TECHNOLOGIES, INC. REPORT DATED 03/15/2008.
 - [10] CONTRACTOR SHALL COORDINATE WITH SWG FOR CUT-CAP-ABANDONMENT OF EX. GAS LATERAL WHERE IN CONFLICT WITH PROPOSED IMPROVEMENTS.
 - [SD] SEE SD- SHEETS FOR PROPOSED STORM DRAIN DESIGN & ANNOTATION
 - [SS] PRIVATE SEWER PER BD19-10391

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE _____

WASTEWATER CALCULATIONS (ALL PHASES, ULTIMATE BUILD-OUT)

REFER TO SHEET SS-01 IN CCWRD PIPES #17.115

LEGEND:

- [Hatched Area] IMPROVEMENTS NOT A PART OF THIS SET
- [Solid Line] PHASE LINE

CONTRACTOR SHALL COORDINATE WITH SWG FOR CUT-CAP-ABANDONMENT OF EX. GAS LATERAL WHERE IN CONFLICT WITH PROPOSED IMPROVEMENTS.

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE _____

CCWRD PIPES #19.949

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 9SWW6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

GRAPHIC SCALE IN FEET

HORIZONTAL: 1" = 30'
VERTICAL: 1" = 3'

CCWRD NOTE: LATERAL MARKING REQUIREMENTS

LATERALS SHALL BE MARKED ACCORDING TO THE 2009 DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS STANDARD DRAWING 25. A 3M MARKER BALL IS TO BE INSTALLED OVER THE CONNECTION POINT AT THE MAIN OR MANHOLE. A SECOND MARKER IS TO BE INSTALLED AT THE POINT WHERE THE LATERAL CROSSES THE PROPERTY LINE. A VISUAL MARK IS ALSO REQUIRED, A 3-INCH HIGH "S" STAMPED OR CHISELED INTO THE CONCRETE AT THE POINT DIRECTLY OVER WHERE THE LATERAL PASSES UNDER THE CURB.

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

Call before you Dig

Call before you UnderGround

Call Before You Overhead

1-702-432-5300

1-800-227-2600

1-702-227-2929

Kimley-Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

THOMAS ACKERET
Exp. 12/31/2020
CIVIL ENGINEER
Professional No. 18592

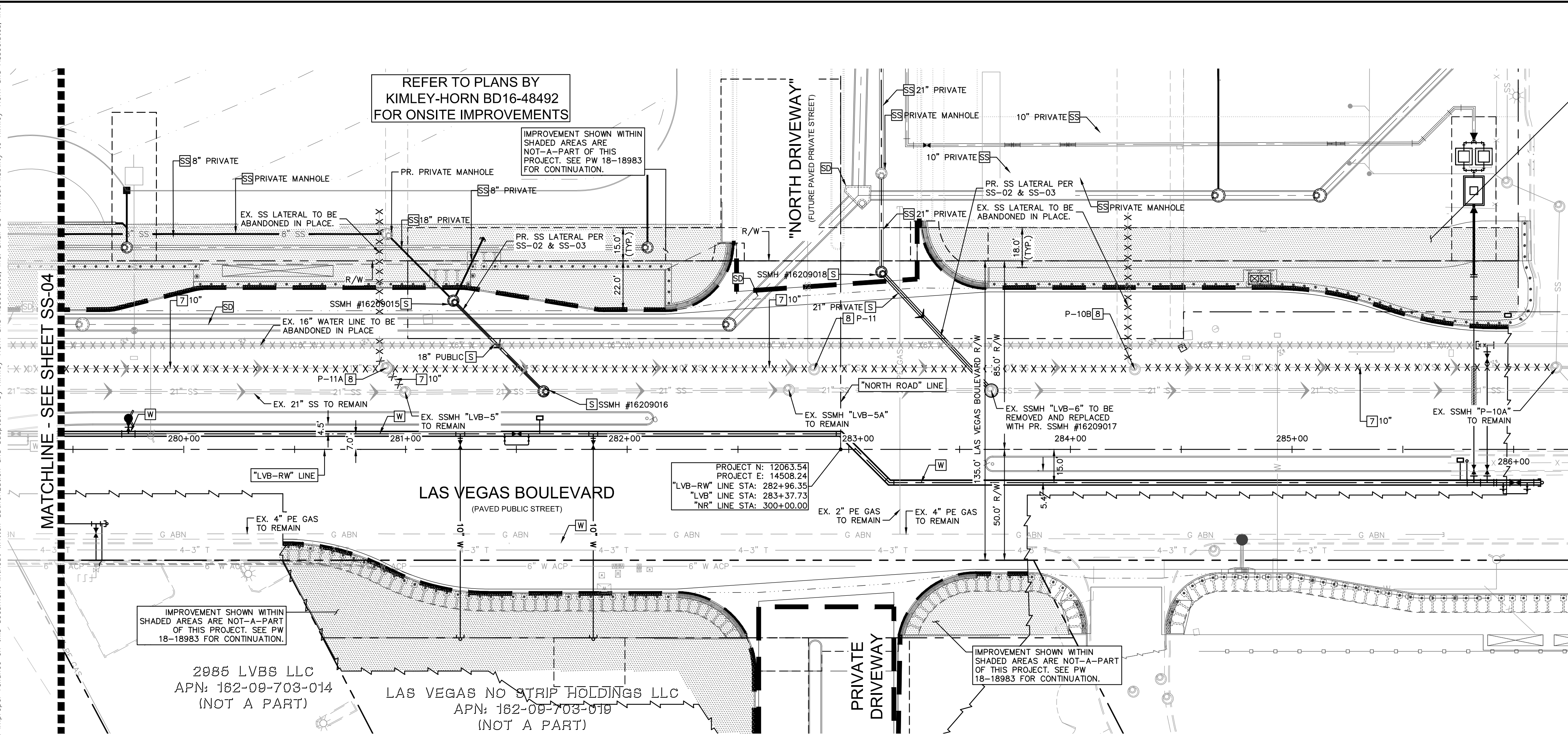
RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

SHEET NUMBER SS-03

ISSUED FOR CONSTRUCTION

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
PH 15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE)

Plotted By: Ackeret, Thomas - Sheet: SSK-110 - Layout: SS-05 - K:\LAV_Civil\092755002-Resorts World LV\Plan\CAD\PlanSheets\Bid Alternates\092755002-SS-Abandon.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



REFER TO PLANS BY
KIMLEY-HORN BD16-48492
FOR ONSITE IMPROVEMENTS

IMPROVEMENT SHOWN WITHIN
SHADED AREAS ARE
NOT-A-PART OF THIS
PROJECT. SEE PW 18-18983
FOR CONTINUATION.

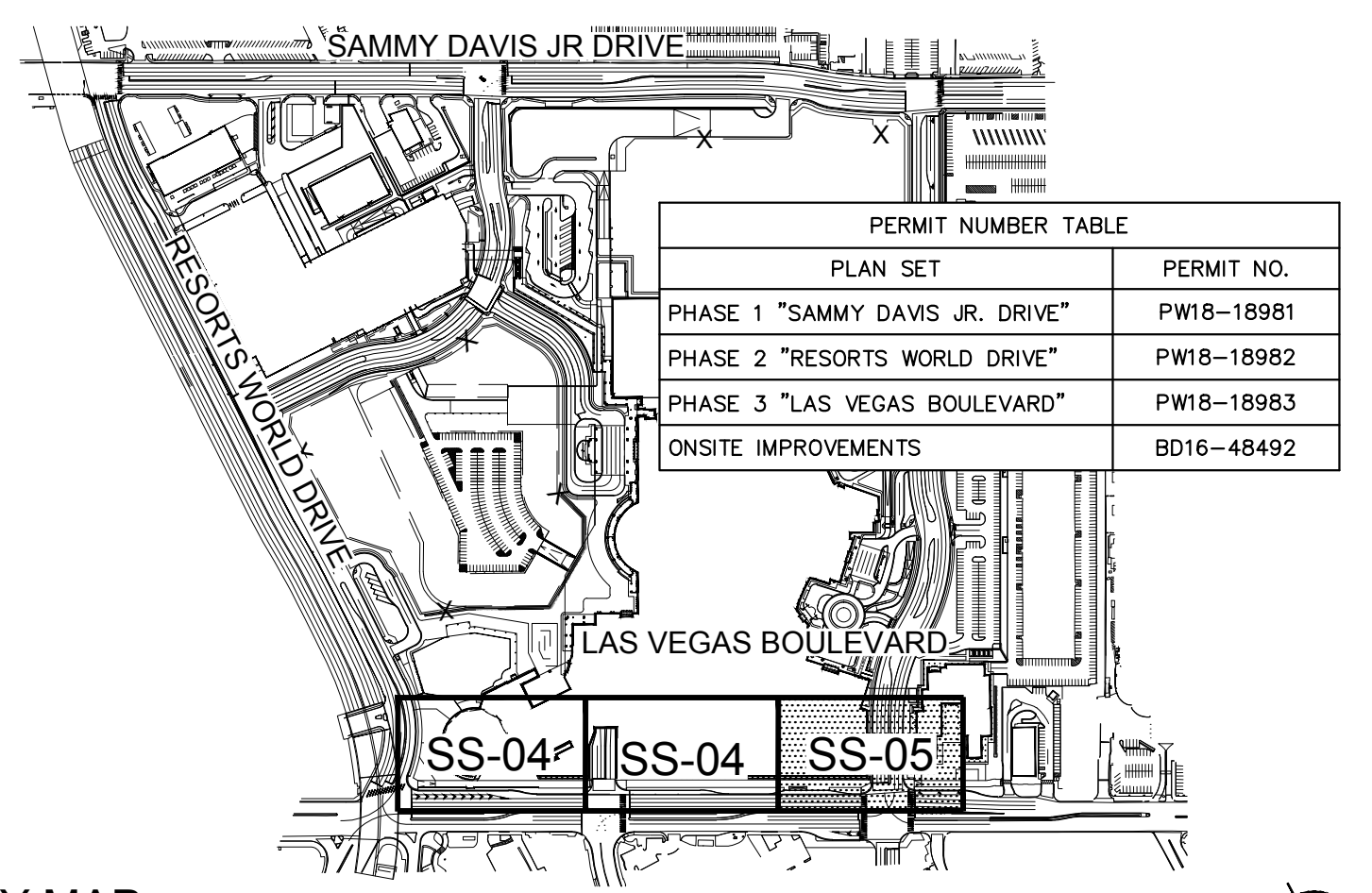
PROJECT N: 12063.54
PROJECT E: 14508.24
"LVB-RW" LINE STA: 282+96.35
"LVB" LINE STA: 283+37.73
"NR" LINE STA: 300+00.00

IMPROVEMENT SHOWN WITHIN
SHADED AREAS ARE NOT-A-PART
OF THIS PROJECT. SEE PW
18-18983 FOR CONTINUATION.

2085 LVBS LLC
APN: 182-09-703-014
(NOT A PART)

LAS VEGAS NO STRIP HOLDINGS LLC
APN: 182-09-703-019
(NOT A PART)

IMPROVEMENT SHOWN WITHIN
SHADED AREAS ARE NOT-A-PART
OF THIS PROJECT. SEE PW
18-18983 FOR CONTINUATION.



PERMIT NUMBER TABLE	
PLAN SET	PERMIT NO.
PHASE 1 "SAMMY DAVIS JR. DRIVE"	PW18-18981
PHASE 2 "RESORTS WORLD DRIVE"	PW18-18982
PHASE 3 "LAS VEGAS BOULEVARD"	PW18-18983
ONSITE IMPROVEMENTS	BD16-48492

KEY MAP NTS

GENERAL NOTES

- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- REFER TO SHEET GN-02 FOR SEWER QUANTITIES.

SEWER CONSTRUCTION NOTES

- [7] CRUSH EXISTING SANITARY SEWER PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS FOR SOUTHERN NEVADA, SECTION 3.18.1 METHOD A.
- [8] DEMOLISH EXISTING MANHOLE PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS FOR SOUTHERN NEVADA, SECTION 3.18.2 METHOD A.
- [S] SEE SS-02 & SS-03 FOR PROPOSED LATERAL DESIGN & ANNOTATION
- [SD] SEE SD- SHEETS FOR PROPOSED STORM DRAIN DESIGN & ANNOTATION
- [SS] PRIVATE SEWER PER BD19-10391
- [W] SEE WA- SHEETS FOR PROPOSED WATER MAIN/APPURTENANCES DESIGN & ANNOTATION

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

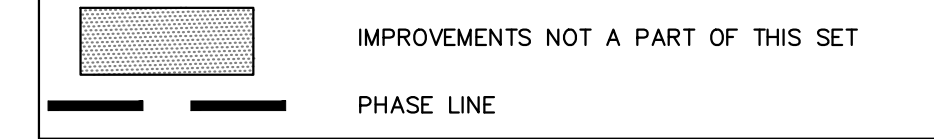
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE _____

WASTEWATER CALCULATIONS (ALL PHASES, ULTIMATE BUILD-OUT)

REFER TO SHEET SS-01 IN CCWRD PIPES #17.115

LEGEND:



CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE _____

CCWRD PIPES #19.949

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 9SWW6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

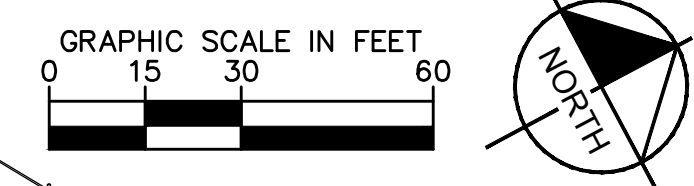
BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

MANHOLE LOCATION TABLE		
NAME	NORTHING	EASTING
SSMH #16209005	26750065.15	779734.08
SSMH #16209012	26749834.07	779611.92
SSMH #16209013	26749850.97	779577.82
SSMH #16209015	26750716.96	780030.98
SSMH #16209016	26750734.54	780085.68
SSMH #16209017	26750914.12	780179.40
SSMH #16209018	26750893.87	780109.24

ABANDONMENT NOTE:
ABANDON SEWER PER DESIGN AND CONSTRUCTION STANDARDS FOR WATER COLLECTION SYSTEMS FOR SOUTHERN NEVADA SECTION 3.18

CCWRD NOTE: LATERAL MARKING REQUIREMENTS
LATERALS SHALL BE MARKED ACCORDING TO THE 2009 DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS STANDARD DRAWING 25. A 3M MARKER BALL IS TO BE INSTALLED OVER THE CONNECTION POINT AT THE MAIN OR MANHOLE. A SECOND MARKER IS TO BE INSTALLED AT THE POINT WHERE THE LATERAL CROSSES THE PROPERTY LINE. A VISUAL MARK IS ALSO REQUIRED, A 3-INCH HIGH "S" STAMPED OR CHISELED INTO THE CONCRETE AT THE POINT DIRECTLY OVER WHERE THE LATERAL PASSES UNDER THE CURB.



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

Call before you UnderGround
1-702-432-5300
811
Call Before You Overhead
1-800-227-2600 1-702-227-2929

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SIM
CHECKED BY	RAM

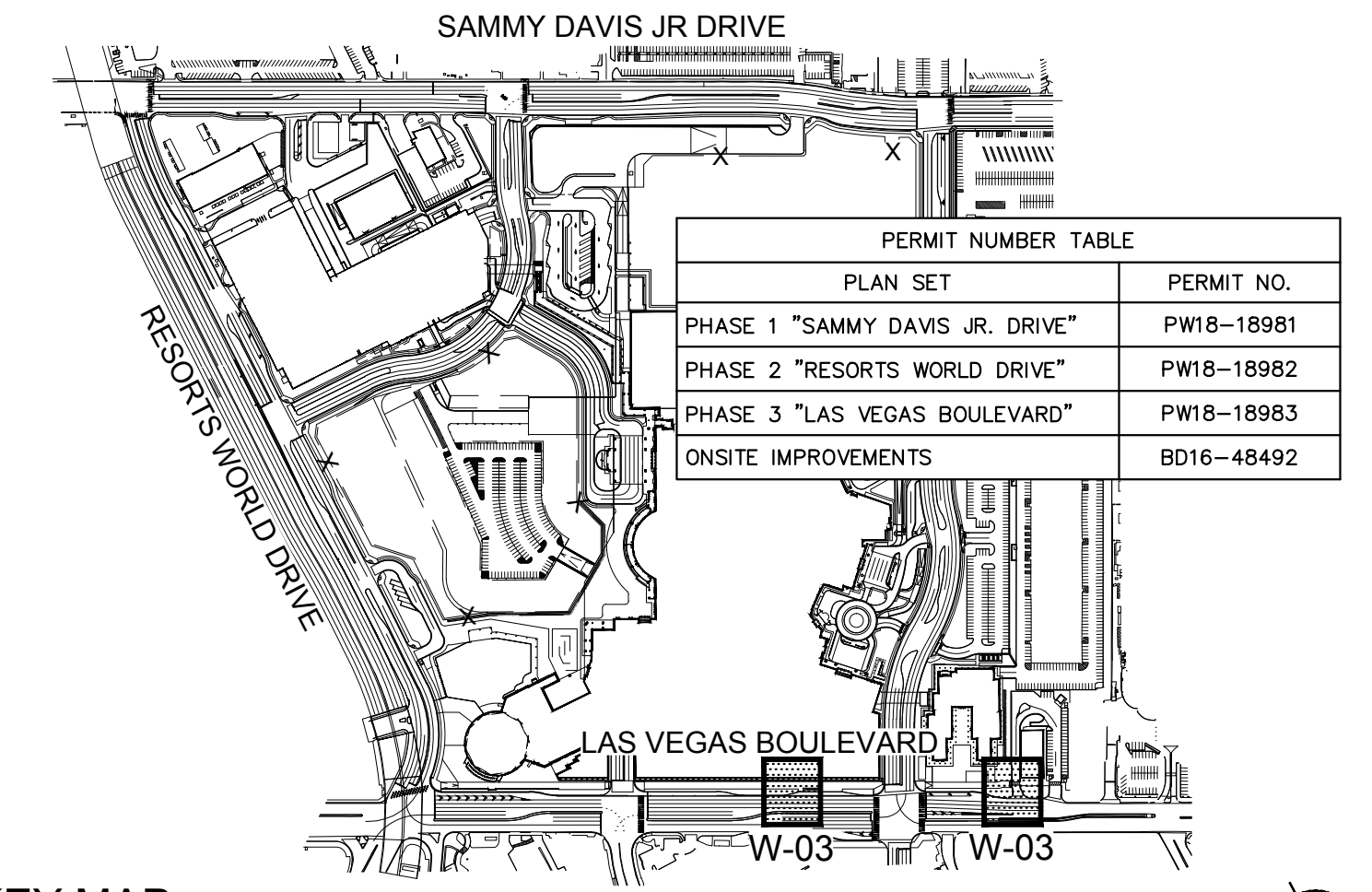
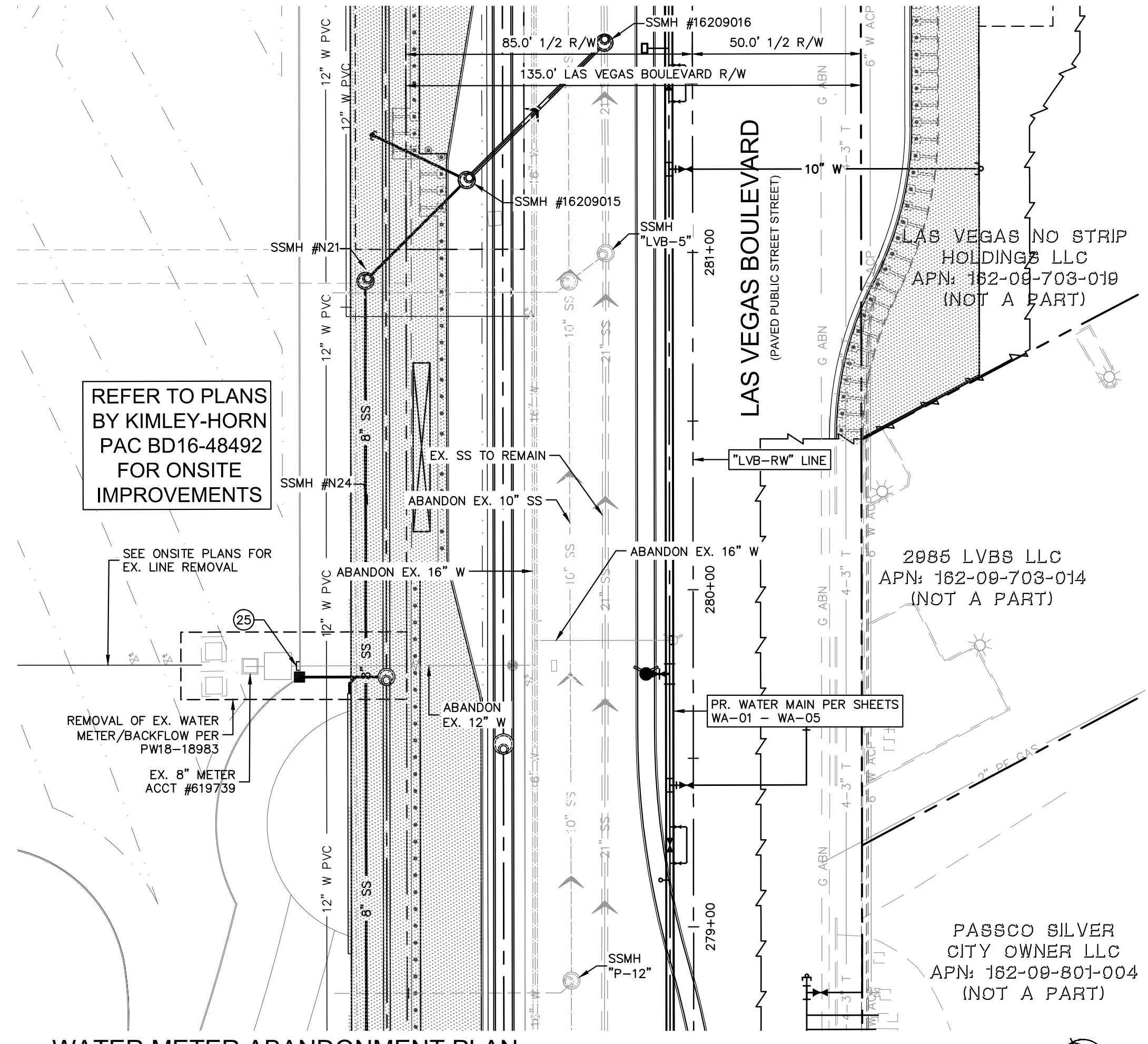
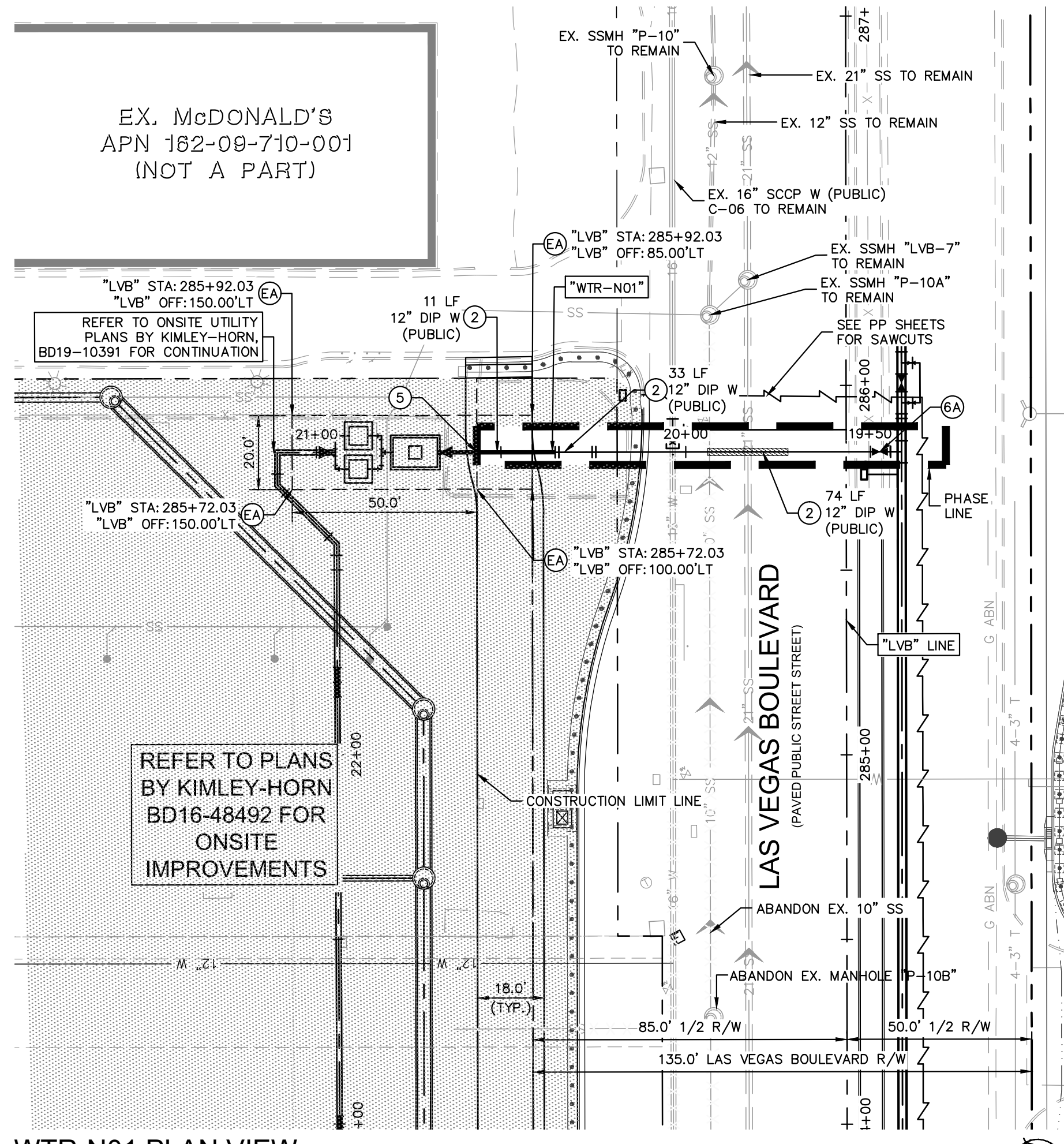
ISSUED FOR CONSTRUCTION
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 HTE #15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE)

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY
 NEVADA

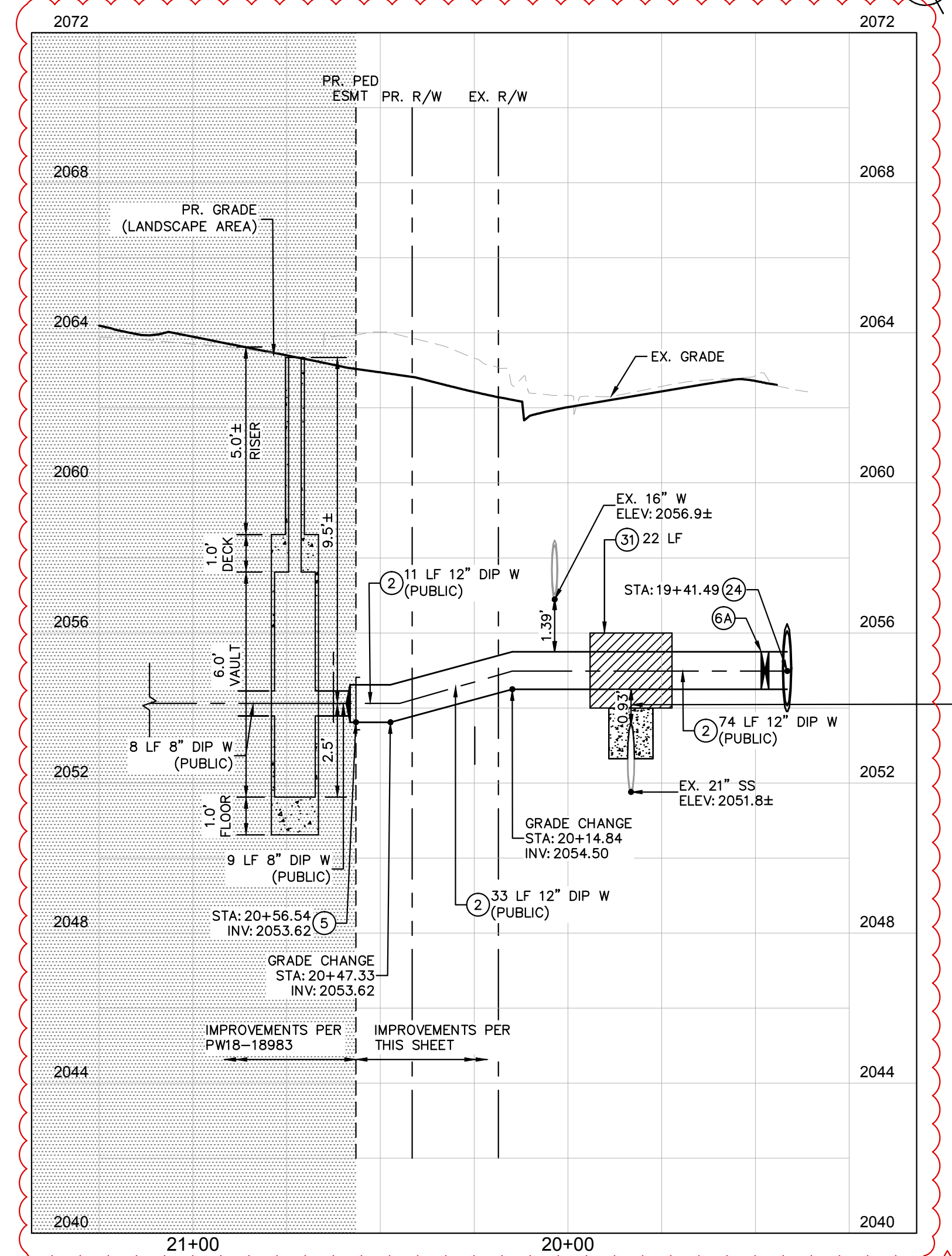
LAS VEGAS BLVD -
 SANITARY SEWER
 ABANDONMENT PLAN

SHEET NUMBER
SS-05

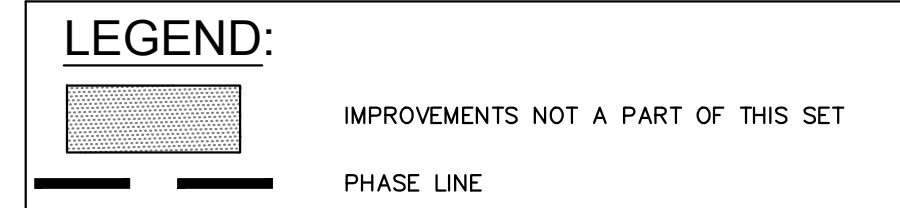
Plotted by: Martin, Scott Sheet: Sst-Kim Layout: W-03 K:\LAV-Civil\092755002-Reports World LV PH1\CAD\PlanSheets\Bid Alternates\092755002-WA.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- GENERAL NOTES**
- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
 - CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
 - ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- WATER NOTES**
- INSTALL MECHANICALLY RESTRAINED DIP WATER LINE, SIZE AND LENGTH AS NOTED ON PLAN.
 - STUB AND CAP WITH BLOW-OFF PER UDACS PLATE No. 36.
 - INSTALL GATE VALVE, SIZE PER LINE, PER UDACS PLATE No. 30 & 39.
 - SEE WA SHEETS FOR CONNECTION TO PROPOSED 24" WATER LINE.
 - CUT, CAP AND ABANDON EXISTING SERVICE LATERAL PER NOTE ON THIS SHEET.
 - INSTALL PIPE CASING PER UDACS PLATE No. 22 AND 23, LENGTH AS NOTED ON PLAN.
 - PROVIDE LVVWD EASEMENT, DIMENSIONS AS NOTED ON PLAN.



SEWER CCTV
PRIOR TO START OF CONSTRUCTION, AND AFTER CONSTRUCTION IS COMPLETED, CONTRACTOR SHALL CCTV INSPECT, IN COMPLIANCE WITH NASSCO/PACP, THIS EXISTING SEWER MAIN TO 20 FEET ON BOTH SIDES OF THE WATER CROSSING, AND SUBMIT THE CCTV MEDIA TO THE CCWRD INSPECTOR. ANY DAMAGE TO THE EXISTING SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT ITS SOLE EXPENSE, SUBJECT TO RE-INSPECTION AND APPROVAL BY CCWRD DEVELOPER INSPECTORS GROUP.



FIRE DEPARTMENT APPROVAL

BY: _____ DATE: _____

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE _____

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE _____

CCWRD PIPES #19,949

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "7C11 9SWW6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

CONVERSION TO 2018 BENCHMARK:
637.459 - 0.073m = 637.386 METERS
2091.40 - 0.24 = 2091.16 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING
NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

ABANDONED VALVES CUT AND CAP
ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

L-2210 NOTES:
REFER TO WATER LINE PLANS IN L-2210 FOR ADDITIONAL DETAILS, SPECIFICATIONS AND NOTES

Call before you Dig
Call before you UnderGround
Call before you Overhead

1-702-432-5300
1-800-227-2600
1-702-227-2929

Kimley-Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

THOMAS ACKERET
REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA
CIVIL
Exp. 12/31/2024
No. 18592

LAS VEGAS BLVD - WATER PLAN & PROFILE SHEET

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA

PERMIT NUMBER TABLE

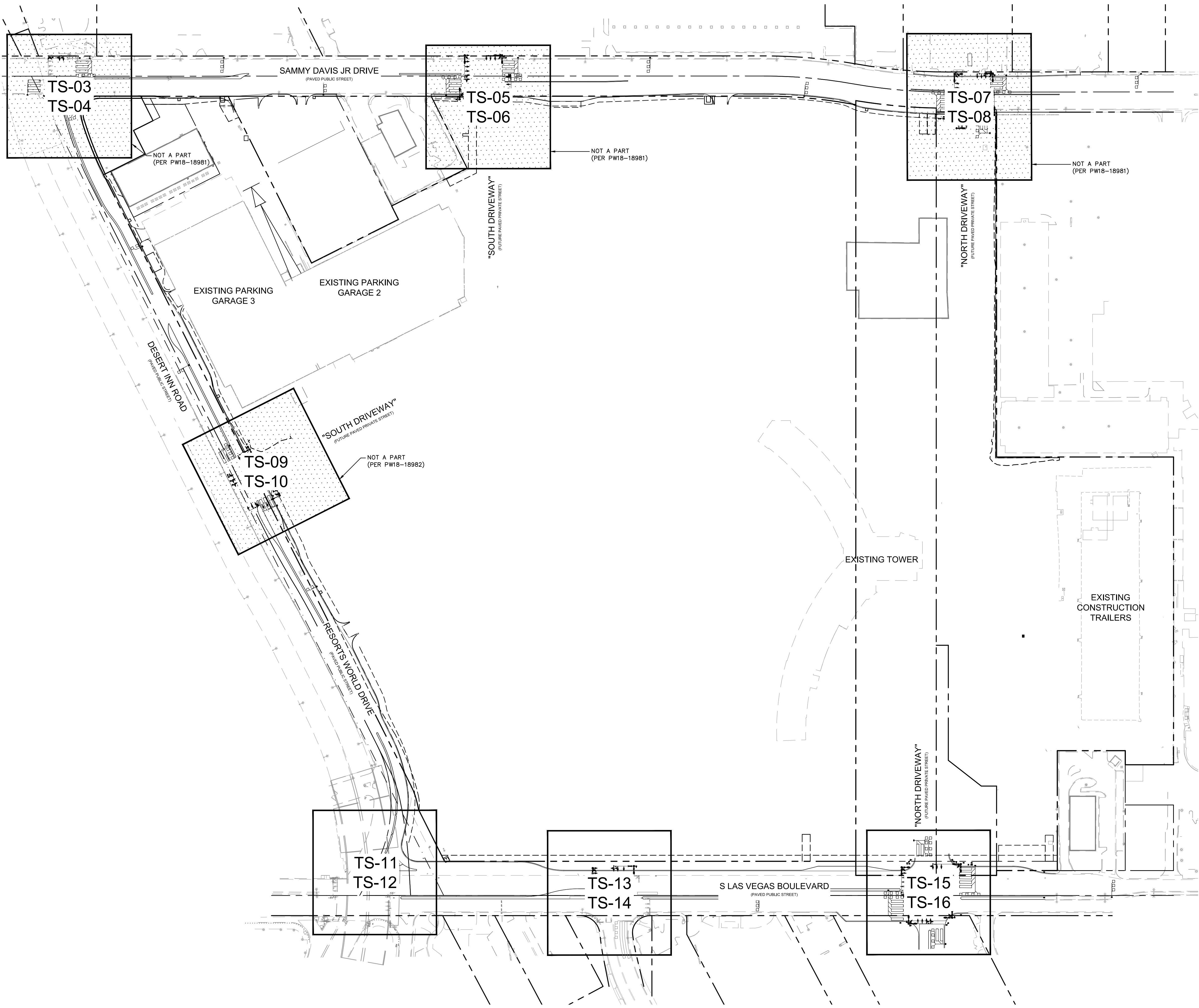
NO.	REVISIONS	DATE	BY
2	REVISED PER REVISION No. 2	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

ISSUED FOR CONSTRUCTION

SHEET NUMBER
W-03

Plotted By: Pflanz, Griffin - Sheet - Set: Kba - Layout: TS-01 - K:\LAV-Civil\092755002-Resorts World LV PH1\CAD\PlanSheets\Bid Alternates\092755002-TS1g-Overall.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- ### GENERAL NOTES
- CONTRACTOR SHALL VERIFY SIZE, TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTING SIGNAL POLE FOUNDATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY VARIANCES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - CONTRACTOR SHALL INSTALL RED MARKING TAPE 18" BELOW GRADE, ABOVE ALL PROPOSED CONDUITS.
 - CONTRACTOR SHALL VERIFY ALL UTILITY CONFLICTS AND OBSTACLES PRIOR TO TRENCHING OR DIGGING.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, FROM DAMAGE. ALL IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESIDENT ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
 - CONTRACTOR TO COORDINATE LOCATIONS OF PROPOSED PULL BOXES TO BE ADJACENT TO SIDEWALK JOINTS AND SCORING PATTERN LINES.
 - EXISTING TRAFFIC SIGNALS MUST REMAIN OPERATIONAL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE UNIFORMED TRAFFIC CONTROL OFFICERS AT ALL TIMES WHEN THE TRAFFIC SIGNAL CANNOT REMAIN OPERATIONAL UNLESS ANOTHER METHOD IS APPROVED BY CLARK COUNTY.
 - PULL BOX AND VAULT LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
 - CONTRACTOR TO STAKE FOUNDATION LOCATIONS FOR APPROVAL BY RESIDENT ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR TO POTHOLE NEW FOUNDATION LOCATIONS PRIOR TO CONSTRUCTION TO IDENTIFY ALL SUBSURFACE CONFLICTS. IF CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL WORK WITH THE RESIDENT ENGINEER TO DETERMINE AN ALTERNATE FOUNDATION LOCATION.

TRAFFIC SIGNAL EQUIPMENT LEGEND

EXISTING	PROPOSED	
		TRAFFIC SIGNAL CONDUIT
		SERVICE PEDESTAL
		CONTROLLER CABINET
		TRAFFIC SIGNAL PULL BOX
		FIBER OPTIC P30 PULL BOX
		FIBER OPTIC T200 VAULT
		ILLUMINATED STREET NAME SIGN
		400W LUMINAIRE
		VIDEO IMAGE DETECTOR
		TRAFFIC SIGN
		SIGNAL POLE AND FOUNDATION
		OPTICOM (ONE-WAY)
		OPTICOM (TWO-WAY)
		PEDESTRIAN SIGNAL HEAD
		STANDARD 3 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH BACKPLATE
		STANDARD 3 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE
		STANDARD 4 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH BACKPLATE
		STANDARD 4 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE

NOTE:
 ALL TRAFFIC SIGNAL IMPROVEMENTS SHALL BE CONSTRUCTED PER COUNTY STANDARDS AND L-2210 SPECIAL PROVISIONS.

BENCHMARK
 CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 9SWW6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET

BASIS OF BEARING
 NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

GRAPHIC SCALE IN FEET
 0 60 120 240

Call before you Dig
 Avoid overhead power line contact. It's costly.
 CALL 811

Call before you Overhead
 Avoid overhead power line contact. It's costly.
 CALL 1-800-227-2600

Call before you UnderGround
 1-702-432-5300
FREQUENTLY NO INTERNAL SYSTEMS OF TRANSPORTATION PART

Kimley-Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

THOMAS ACKERET
 CIVIL ENGINEER
 Exp. 12/31/20
 CIVIL ENGINEER
 Exp. No. 18592

KHA PROJECT
092755002

DATE
10/23/2019

SCALE
AS SHOWN

DESIGNED BY
TEA

DRAWN BY
SIM

CHECKED BY
RAM

ISSUED FOR CONSTRUCTION

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

OVERALL TRAFFIC SIGNAL PLAN

SHEET NUMBER
TS-01

SHEET 312 OF 345

TRAFFIC SIGNAL NOTES

GENERAL

- THESE NOTES ARE EFFECTIVE AS OF 01/15/15 AND SHALL SUPERSEDE ALL PREVIOUS VERSIONS.
- THE CONSTRUCTION SHALL BE IN ACCORDANCE TO THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
- INSTALLATION OF TRAFFIC SIGNAL COMPONENTS SHALL BE SUPERVISED BY A CERTIFIED IMSA LEVEL II TRAFFIC SIGNAL ELECTRICIAN OR LEVEL II TRAFFIC SIGNAL TECHNICIAN. THIS SHALL INCLUDE THE INSTALLATION OF ALL UNDERGROUND CONDUIT AND CONDUIT BENDS. A CLARK COUNTY LICENSED JOURNEYPERMAN ELECTRICIAN SHALL MAKE ALL ELECTRICAL TERMINATIONS. CONTRACTOR PERFORMING WORK ON THE TRAFFIC SIGNAL SHALL HOLD A VALID C-2 ELECTRICAL LICENSE ISSUED BY THE STATE OF NEVADA.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CALL CLARK COUNTY TRAFFIC OPERATIONS AT (702) 455-6000 AND INFORM THE TRAFFIC SYSTEMS SUPERVISOR OF THE WORK START DATE FOR COORDINATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES AND INFRASTRUCTURES LIKELY TO BE AFFECTED BY THEIR WORK. THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE UTILITIES' OWNERS AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ANY DAMAGE OR MODIFICATION TO LANDSCAPE/IRRIGATION TO PRE- CONSTRUCTION CONDITION (MODIFIED LANDSCAPE SHALL BE PAID FOR AS PART OF TRAFFIC SIGNAL LUMP SUM).
- REMOVAL AND REPLACEMENT OF ANY CURB, GUTTER AND SIDEWALK REQUIRED TO INSTALL THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE INCLUDED IN THE LUMP SUM COST OF THE TRAFFIC SIGNAL.
- CONTRACTOR SHALL RESTORE ALL PAVEMENT MARKINGS DAMAGED DUE TO OR BY CONSTRUCTION OR AS SHOWN ON THE PLANS. THE TRAFFIC SIGNAL SHALL NOT BE ENERGIZED WITHOUT THE PROPER PAVEMENT MARKINGS IN-PLACE.
- ALL STOP SIGNS, STOP AHEAD SIGNS AND/OR FLASHING BEACON ASSEMBLIES OR ANY OTHER TRAFFIC CONTROL DEVICES THAT MAY BE IN CONFLICT WITH THE TRAFFIC SIGNAL SHALL BE REMOVED AT TIME OF TRAFFIC SIGNAL ACTIVATION AND RETURNED TO THE CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122. THE CONTRACTOR SHALL REMOVE SIGN POSTS AND POST ANCHORS AND PATCH HOLES WITH CONCRETE.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL INSTALLED INDUCTION LOOPS AND ENSURING THAT THE FRONT EDGE OF EACH STOP BAR IS LOCATED TWO (2) FEET BEHIND THE FRONT EDGE OF THE INDUCTION LOOP.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL EXISTING INDUCTION LOOPS AND HOME RUNS TO THE PULL BOXES ARE IN OPERATIONAL CONDITION ON THE FIRST DAY OF CONSTRUCTION. ANY LOOPS AND/OR HOME RUNS THAT ARE DAMAGED SHALL BE REPORTED IN WRITING TO THE TRAFFIC MANAGER IMMEDIATELY. AFTER WORK HAS COMMENCED, ANY DAMAGE TO EXISTING LOOPS AND HOME RUNS SHALL BE REPLACED AND/OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ANY SIGN TEMPORARILY COVERED ON A MAST ARM SHALL BE MASKED WITH A COVER APPROVED BY THE CLARK COUNTY TRAFFIC MANAGER. TAPE SHALL NOT BE APPLIED TO THE FACE OF ANY SIGN. ANY SIGN THAT HAS HAD TAPE APPLIED TO THE REFLECTIVE SURFACE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL MAST ARM MOUNTED SIGNS, INCLUDING THE HORIZONTAL BLANK SIGN, SHALL BE MOUNTED USING BACK-BRACING STRAPS. STRAPS SHALL BE ALUMINUM STRAPS OF A MINIMUM SIZE OF 1/8-INCH THICKNESS X 2-INCH WIDE. BRACKETS SHALL BE 12 GAUGE STEEL FLARED LEG BRACKET, WITH 5/16-INCH DIAMETER STAINLESS STEEL THEFT-PROOF BOLT OR STANDARD HEX WASHER FACE BOLT. A FENDER WASHER OF A MINIMUM SIZE OF 1-INCH DIAMETER SHALL BE INSTALLED ON THE FRONT SIDE OF THE SIGN IN ADDITION TO THE NEOPRENE WASHER, AND ALSO BEHIND THE BRACKET STRAP, WITH LOCK AND NUT. SIGNS 24-INCH (WIDTH) OR SMALLER SHALL HAVE A MINIMUM OF ONE (1) STRAP. SIGNS 24-INCH (WIDTH) OR LARGER AND SMALLER THAN 48-INCH (WIDTH) SHALL HAVE A MINIMUM OF TWO (2) STRAPS. SIGNS 48-INCH (WIDTH) OR LARGER SHALL HAVE A MINIMUM OF THREE (3) STRAPS. DOUBLE PANEL SIGNS REQUIRE SPECIAL BRACKET MOUNTING SYSTEM, AND SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN NEVADA. SEE SIGN MOUNTING ILLUSTRATION IN THE UNIFORM STANDARD DRAWINGS FOR ADDITIONAL DETAILS.
- THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. CONTRACTOR MUST CONTACT F.A.S.T. AT 702-432-5300 FOR UNDERGROUND LINE LOCATIONS. CONTRACTOR SHALL MAINTAIN IN OPERATION ALL EXISTING ITS INFRASTRUCTURE WITHIN THE PROJECT LIMITS AT ALL TIMES. ANY DAMAGE TO ITS INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED AND/OR REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO RTC/FAST. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT AND/OR SPLICED, CONTRACTOR SHALL CONTACT RTC/FAST TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION. CONTRACTOR SHALL CONTACT JESUS 'CHUY' MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT (702) 604-7078 CELL, OR (702) 432-5300 GENERAL.
- TRAFFIC SIGNAL INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO LOOP DETECTORS, LOOP LEAD-IN CABLES, CONDUITS, CONDUCTORS, AND PULL BOXES MAY HAVE BEEN INSTALLED IN YOUR PROJECT AREA FOR EXISTING AND/OR FUTURE TRAFFIC SIGNAL SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TRAFFIC SIGNAL INFRASTRUCTURE WITHIN THE PROJECT LIMITS. ANY DAMAGE TO THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED AND/OR REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE TRAFFIC MANAGER AT THE CONTRACTOR'S EXPENSE.
- CONDUITS SHALL BE 3/4" DIA. GALVANIZED STEEL CROSSWALK EXTENDING FROM THE MIDPOINT OF A SIDEWALK RAMP TO THE MIDPOINT OF THE OTHER SIDEWALK RAMP. ANGLE POINTS ARE NOT PERMITTED.
- CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED TRAFFIC SIGNAL POLES SHALL INCLUDE LUMINAIRE ARMS, LUMINAIRES, MAST ARMS, AND SIGNAL HEADS DISASSEMBLED FROM THE POLE AND LAMPS REMOVED AND DISPOSED OF PROPERLY. ALL SALVAGED STREETLIGHT POLES SHALL INCLUDE LUMINAIRE ARMS AND LUMINAIRES DISASSEMBLED FROM THE POLE, AND LAMPS REMOVED AND DISPOSED OF PROPERLY. ITEMS TO BE SALVAGED AND DISASSEMBLED SHALL INCLUDE: SIGNAL HEADS AND SIGNAL POSTS, MAST ARMS OR SIGNAL POLES, MAST ARMS OR SIGNAL POLES SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD. THE TRANSMITTAL FORM SHALL INCLUDE THE ASSOCIATED PROJECT NAME AND NUMBER, AND A LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL (702) 455-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.

CONDUITS/PULL BOXES/ CABLES

- F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER OR CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED OR REPAIRED. THE TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO CLARK COUNTY TRAFFIC MANAGEMENT AND TO F.A.S.T. ANY DAMAGE TO ANY INTERCONNECT CABLE IS DEEMED AN EMERGENCY BY CLARK COUNTY. F.A.S.T. CITY OF HENDERSON AND NEVADA MUST BE NOTIFIED IMMEDIATELY TO F.A.S.T. ACCEPTANCE.
- DAMAGES MAY BE ASSESSED AGAINST THE CONTRACTOR AFTER 24 HOURS HAS ELAPSED FROM THE TIME OF BREAK OR DAMAGE. \$2,500 PER DAY FOR DAMAGE TO COPPER WIRED INTERCONNECT CABLE AND \$7,500 PER DAY FOR DAMAGE TO FIBER OPTIC CABLE.
- ALL SIGNAL CABLE SHALL CONFORM TO I.M.S.A. #20-1 AND SHALL BE A 25 CONDUCTOR CABLE. ALL CABLES SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
- SIX (6) SINGLE CONDUCTOR UF WIRES SHALL BE PROVIDED FROM ALL EMPTY TENONS TO THE "J" BOX ON THE MAST ARM POLE. EACH WIRE SHALL BE A DIFFERENT COLOR.
- ALL EMPTY TRAFFIC SIGNAL OR STREET LIGHTING CONDUITS SHALL HAVE A #8 AWG THW-2 OR XHHW-2 GREEN CONDUCTOR RUN FROM PULL BOX TO PULL BOX.
- ALL INTERCONNECT / I.T.S. CONDUITS SHALL HAVE A 6-PAIR PE-39 #22 AWG TWISTED WIRE PAIR CABLE, WITH PULL STRING, CABLE IN EACH CONDUIT RUN BETWEEN EACH PULL BOX OR SPLICE VAULT.
- EACH CONDUCTOR OR LOOP CABLE SHALL HAVE A MINIMUM OF SIX (6) FEET AND A MAXIMUM OF TEN (10) FEET OF COILED SLACK WIRE IN EACH PULL BOX THE CONDUCTOR GOES THROUGH OR TERMINATES WITHIN.
- OPTICOM CABLE SHALL BE INSTALLED USING OPTICOM TECHNOLOGIES (OTT) MODEL 135. ALL CABLES SHALL BE RUN FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
- ONE #8 GREEN CONDUCTOR SHALL BE RUN FROM THE CONTROLLER TO ALL POLES AND PULL BOXES AS A BONDING GROUND. ALL PROPOSED CONDUITS SHALL HAVE A #8 AWG GREEN THW-2 OR XHHW-2 CONDUCTOR INSTALLED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING THE COMPLETE TRAFFIC SIGNAL ELECTRICAL SYSTEM INCLUDING ALL EXISTING POLES, CABINETS, SERVICE PEDESTALS, PULL BOXES AND ELECTRICAL DEVICES IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND THE UNIFORM STANDARD DRAWINGS.
- ALL EXISTING TRAFFIC SIGNAL RELATED NO. 3-1/2", NO. 5, AND NO. 7 METAL PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "TRAFFIC SIGNAL". ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS.
- ALL EXISTING TRAFFIC SIGNAL INTERCONNECT RELATED METAL P30 PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "FIBER OPTIC". ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS.
- ALL EXISTING STREET LIGHTING RELATED METAL PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "STREET LIGHTING". ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS.
- ALL NEW PULL BOX ASSEMBLIES (BOX WITH COVER SECURELY ATTACHED) SHALL BE DESIGNED FOR A VERTICAL STATIC LOAD OF 16,000 POUNDS APPLIED WITH A 1.3 SAFETY FACTOR. A VERTICAL TEST LOAD OF 20,800 POUNDS APPLIED TO A 10-INCHX10-INCH STEEL PLATE CENTERED ON THE COVER'S SURFACE SHALL NOT CAUSE FAILURE ON ANY PART OF THE ASSEMBLY.
- MANUFACTURER'S CERTIFIED TESTING, SHOWING COMPLIANCE WITH SPECIFIED DESIGN LOADS AND SAFETY FACTORS ALONG WITH A PHYSICAL DESCRIPTION OF THE TESTING METHODS USED TO ACHIEVE THOSE RESULTS, WILL BE REQUIRED FOR EACH TYPE OF PULL BOX BEING FURNISHED. TEST RESULTS SHALL SHOW THE PROJECT NUMBER, CONTROL NUMBER, AND PROJECT LOCATION AND SHALL BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE FIRM MANUFACTURING THE PULL BOX.
- ALL NEW TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED "TRAFFIC SIGNAL". THE COVER SHALL BE A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER WHICH CAN WITHSTAND STATIC LOADS AS REQUIRED ABOVE.
- ALL NEW INTERCONNECT RELATED P30 PULL BOX SHALL BE POLYMER CONCRETE AND HAVE A COVER MARKED "FIBER OPTIC". THE COVER SHALL BE A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE.
- ALL NEW INTERCONNECT RELATED T200 PULL BOX SHALL BE CONCRETE AND HAVE AN ADJUSTABLE TORSION SPRING ASSISTED METAL COVER MARKED "FIBER OPTIC". THE PULL BOX ASSEMBLY SHALL HAVE A DESIGN LOAD OF H-20 WHEEL LOADINGS. PULL BOX COVER BONDING DETAIL SHALL BE AS SHOWN ON THE PLANS.
- ALL NEW STREET LIGHTING PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED "STREET LIGHTING". THE COVER SHALL BE A HEAVY DUTY, SOLID, RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE.
- FOR NEW CONSTRUCTION OR AS SHOWN IN THE PLANS, TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE 34-3/4-INCH X 21-3/4-INCH X 24-INCH (LENGTH X WIDTH X DEPTH). WALLS AND BOTTOM SHALL BE OF MONOLITHIC CONCRETE CONSTRUCTION.
- FOR RETROFITS OR AS SHOWN IN THE PLANS, TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE DOUBLE STACKED NO. 7 PULL BOXES, WITH A 12-INCH DEEP PRECAST REINFORCED CONCRETE BODY WITH A PRECAST REINFORCED CONCRETE EXTENSION AS SHOWN IN THE UNIFORM STANDARD DRAWINGS. CONTRACTOR SHALL USE GROUT TO FILL IN ANY GAPS BETWEEN THE PULL BOX AND THE PULL BOX EXTENSION. SPACERS SUCH AS ROCKS, CINDER BLOCKS AND WOOD PIECES SHALL NOT BE USED TO FILL IN ANY GAPS BETWEEN THE PULL BOX AND THE PULL BOX EXTENSION.
- CONDUIT ROUTING AND PULL BOX LOCATION ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION OF PULL BOXES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- PULL BOXES SHALL NOT BE INSTALLED WITHIN SIDEWALK RAMPS, WITHIN ANY DRIVEWAY, OR WITHIN TEN FEET OF ANY DRIVEWAY. PULL BOXES SHALL NOT BE INSTALLED WITHIN THE ROADWAY, SHOULDER, NOR BIKE LANE.
- ALL CONDUIT BENDS FOR TRAFFIC SIGNALS TERMINATING IN PULL BOXES, VAULTS, TRAFFIC SIGNAL POLES AND TRAFFIC CONTROLLER CABINETS SHALL BE PVC COATED RIGID STEEL UNLESS THE CONDUIT RUN IS SHORTER THAN THIRTY (30) FEET.
- TRAFFIC SIGNAL AND STREET LIGHTING CONDUIT BENDS SHALL HAVE A 18 -INCH MINIMUM RADIUS.
- INTERCONNECT CONDUITS BENDS SHALL HAVE A 24-INCH MINIMUM RADIUS.
- ALL CONDUITS SHALL EXTEND A MINIMUM OF SIX (6) INCHES ABOVE THE GROUND LEVEL OF THE BOTTOM OF A PULL BOX.
- ALL PULL BOX COVERS SHALL HAVE A MINIMUM SIX (6) INCH CLEARANCE FROM ANY CONDUIT.
- ALL CONDUIT OPENINGS SHALL BE SEALED WITH DUCT SEAL OR APPROVED EQUIVALENT. ALL ELECTRICAL CONDUIT, FITTINGS, AND COUPLINGS SHALL BE JOINED TOGETHER PER THE CURRENT NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL SUPPLY AND INSTALL THW-2 OR XHHW-2 WIRE IN LIEU OF THW WIRE AT LOCATIONS WHERE THW WIRE IS SPECIFIED IN THE STD DWG.

DETECTION

- IF LOOP DETECTORS ARE TO BE INSTALLED FOR THE TRAFFIC SIGNAL SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL FIVE (5) 4-CHANNEL DETECTION LOOP AMPLIFIERS, AND FOUR (4) SINGLE-CHANNEL LOOP AMPLIFIERS CAPABLE OF EXTENSION/DELAY TIMING.
- ALL LOOP LEAD-IN CABLE SHALL BE 1 PAIR NO. 12 AWG, TINNED COPPER, 19 STRANDS EACH PER IMSA SPECIFICATION 50_2.
- LOOP WIRE OTHER THAN PRE-FORMED LOOPS FOR INSTALLATION IN SLEAVES SHALL MEET IMSA SPECIFICATION 51-5. IT SHALL BE SINGLE CONDUCTOR NO. 14 AWG, COPPER WIRE WITH 19 STRANDS. THE INSULATION SHALL BE 15 MILS OF ORANGE PVC COMPLYING WITH UL 62 WITH AN OVERLAP JACKET OF CLEAR NYLON IN ACCORDANCE WITH ASTM D4068.
- INDUCTION LOOP WIRES FROM THE PULL BOX TO THE INDUCTION LOOPS SHALL NOT BE INSTALLED IN AREAS WHERE FUTURE LOOPS MAY BE INSTALLED.
- ALL NEW OR REPLACEMENT INDUCTION LOOPS SHALL BE INSTALLED (AS SHOWN ON THE PLANS) USING CABLE-IN-DUCT WIRING OR PRE-FORMED LOOPS, AND SHALL HAVE INDEPENDENT LEAD-IN CABLE TO THE CONTROLLER CABINET FOR EACH LEFT TURN, STRAIGHT THROUGH AND RIGHT TURN LANES. ADVANCED LOOPS SHALL HAVE ONE LEAD-IN CABLE PER APPROACH, AND NOT PER LANE. EACH LEAD-IN CABLE BE INDIVIDUALLY TAGGED.
- THE INDUCTION LOOP LEAD-IN WIRE SHALL BE INSTALLED IN THE CONDUIT WITHIN THE PULL BOX.
- IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VEHICLE VIDEO DETECTION SYSTEM WHICH SHALL BE ECONEUTE AUTOSCOPE RACK VISION, ITERIS EDGE 2 OR PEEK VIDEOTRAK I/O. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND INSTALL ALL VIDEO EQUIPMENT ON THE TOP SHELF IN CONTROLLER CABINET. CONTRACTOR SHALL MOUNT CAMERAS ON THE TRAFFIC SIGNAL MAST ARM OR LUMINAIRE ARM USING A PELCO ATTACHMENT CONSISTING OF AN ASTRO BRACKET WITH A SIX (6) FOOT RISER. THE LOCATION OF THE CAMERA SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON PLANS. CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VIDEO DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN THE "MINIMUM LIMITS OF DETECTION ZONE". ONE (1) COAXIAL CABLE AND THREE (3) - #10 THW-2 OR XHHW-2 (BLUE, WHITE AND GREEN) SHALL RUN FROM THE CONTROLLER CABINET TO EACH CAMERA. COAXIAL CABLE SHALL BE BELDEN 8281 WITH A BNC CONNECTOR AT EACH END. THE CAMERA COAXIAL CABLE SHALL RUN FROM THE VPU TO THE TRAFFIC SIGNAL POLE HAND HOLE, WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET COAXIAL CABLE SLACK ON THE CAMERA SIDE OF THE COAXIAL CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS.
- IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A WAVE/NETRONX ADVANCE DETECTOR SYSTEM COMPLETE, IN-PLACE AND OPERATIONAL. THE CONTRACTOR SHALL PROVIDE A WAVE/NETRONX SMARTSENSOR ADVANCE MODEL 200 DETECTOR AT EACH LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE, AS PART OF THE EQUIPMENT, A DIN RAIL WITH WAVE/NETRONX "CLICK" MODULES (POWER CONVERTER, SURGE PROTECTION AND CONTACT CLOSURES). THE CONTRACTOR SHALL PROVIDE ALL CABLEING AND WIRING PER MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE, SETUP AND INSTALL ALL VENDOR OPERATIONAL SOFTWARE REQUIRED FOR THESE FUNCTIONS.
- IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A RADAR DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN ONE HUNDRED (100) FEET OF SENSOR TO THREE HUNDRED AND SIXTY (360) FEET IN ADVANCE OF STOP LINE FOR THE THROUGH LANES. ONE (1) BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO EACH SENSOR. THE BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE RADAR DETECTOR WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET CABLE SLACK ON THE SENSOR SIDE OF THE BELDEN 9331 CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS.
- THE FRONT OF THE ADVANCE PLACEMENT OF THE PRESENCE LOOPS (AT THE STOP BAR) AT DISTANCES INDICATED ON THE PLAN SHEETS.
- 6 FEET DIAMETER CIRCULAR DETECTION LOOPS MAY BE USED IN LIEU OF 6 FEET BY 6 FEET SQUARE DETECTION LOOP. SPACING BETWEEN EACH LOOP AND THE NUMBER OF LOOPS SHALL BE AS SPECIFIED IN THE PLANS.

POLES AND HARDWARE

- POLE ASSEMBLIES, TRAFFIC SIGNAL MAST ARMS, LUMINAIRE MAST ARMS AND BRACKETS, ANCHOR-BOLT AND HANDHOLE COVERS AND POLE AND MAST ARM CAPS SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM DESIGNATION A123. ASSOCIATED HARDWARE IN ACCORDANCE WITH ASTM DESIGNATION A153. PLANS IN THE APPEARANCE OF GALVANIZED COMPONENTS SHALL BE CAUSE FOR REJECTION BY THE OWNER. THE OWNER SHALL REJECT GALVANIZED MATERIALS WITH FINISHES THAT HAVE A STRIPED OR UNEVEN APPEARANCE, A BUILD-UP OF ZINC HYDROXIDE, RUST STAINS, ASH INCLUSIONS, DROSS PROTRUSIONS AND/OR FLUX INCLUSIONS. GALVANIZED MATERIALS THAT EXHIBIT A SPIDERY APPEARANCE, A BLOCHY OR SPOTTED APPEARANCE, OR THAT HAVE A GENERAL SURFACE ROUGHNESS OR EXHIBIT LUMINESCENCE OR RUNS IN THE FINISH SHALL ALSO BE REJECTED.
- EXISTING TRAFFIC SIGNAL AND/OR LIGHTING EQUIPMENT NOT AND NOT REUSED ON THE PROJECT SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA. ALL DELIVERIES SHALL BE BY APPOINTMENT ONLY BY CALLING (702) 455-6000 AND COORDINATING WITH THE TRAFFIC SYSTEMS SUPERVISOR AND/OR THE STREETLIGHT SUPERINTENDENT. ALL STREET LIGHTING LAMPS SHALL BE SEPARATED FROM THE LUMINAIRES PRIOR TO DELIVERY TO THE COUNTY AND THE LAMPS SHALL BE DISPOSED OF PROPERLY.
- THE FINAL INSTALLED POLE LOCATIONS SHALL ONLY DEVIATE FROM THE PROPOSED LOCATIONS SHOWN ON THE PLANS UPON APPROVAL BY THE TRAFFIC MANAGER. ALL SIGNAL POLE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND SHALL NOT BE DRILLED WITHOUT PRIOR APPROVAL OF THE CLARK COUNTY TRAFFIC MANAGER.
- CONTRACTOR SHALL ENSURE THAT TRAFFIC SIGNAL POLES ARE PLUMB AFTER INSTALLATION OF THE MAST ARMS AND TRAFFIC SIGNAL HEADS. WHEN EXISTING SIGNAL POLES ARE USED, CONTRACTOR SHALL BREAK EXISTING CRASH CAPS AND REPLUMB THE SIGNAL POLES AFTER LIVE ARM LOAD IS ATTACHED. CONTRACTOR SHALL ALSO RESTORE AND/OR REPLACE CRASH CAPS AND, ALL ASSOCIATED HARDWARE.
- THE CONTRACTOR IS TO INSTALL BLANK 24" X 30" SIGN PANEL(S) HORIZONTALLY ON ALL MAST ARMS REQUIRING VIDEO DETECTION CAMERA AND/OR IF THE MAST ARM EXCEEDS SIXTY (60) FEET IN LENGTH. COORDINATE WITH THE TRAFFIC SYSTEMS SUPERVISOR AT (702) 455-6000 FOR DETAILS.
- CONTRACTOR SHALL INSTALL MCMCIN RED LIGHT VIOLATOR DETECTION UNIT, CURRENT MODELS FOR RED AND BLUE INDICATORS, AS SHOWN ON THE POLE SCHEDULE FOR EACH INTERSECTION. THE RED INDICATOR SHALL BE MOUNTED BETWEEN SIXTY (60) AND SEVENTY (70) FEET ABOVE THE BASE PLATE OF THE SIGNAL POLE AND SHALL DETECT THE MAST ARM STRAIGHT THROUGH SIGNAL RED INDICATION. THE BLUE INDICATOR SHALL BE MOUNTED ONE (1) FOOT ABOVE THE RED INDICATOR AND SHALL DETECT THE SIDE MOUNT LEFT TURN RED INDICATION. THE INDICATORS SHALL BE MOUNTED AS SHOWN AND INDICATED ON DWG NO. 811.S1. CONTRACTOR SHALL INSTALL THE INDICATORS AT A MOUNTING HEIGHT WHERE THEY WILL NOT BE OBSTRUCTED BY ANY SIDE MOUNT SIGNAL HARDWARE. CONTRACTOR SHALL WIRE INDICATORS DIRECTLY TO BUSS IN "J" BOX PER CALL OUT PHASING IN POLE SCHEDULE.
- MODEL 722 (TWO-WAY) OPTICOM DETECTORS SHALL BE MOUNTED ON TOP OF THE LEFT-MOST END OF THE MAST ARM. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING ONE (1) CONTRACTOR SUPPLIED GTT MODEL 764 PHASE SELECTOR. CONTRACTOR SHALL SUPPLY AND DELIVER ONE (1) ADDITIONAL GTT MODEL 764 PHASE SELECTOR TO CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122.

POLES AND HARDWARE

- ON LOCATIONS WHERE SINGLE DIRECTIONAL DETECTORS ARE REQUIRED AND SHOWN ON THE PLANS, MODEL 722 (TWO-WAY) DETECTORS SHALL BE USED AND SHALL BE MOUNTED OVER THE CENTER OF THE LAMPS FOR EACH DIRECTION. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING ONE (1) CONTRACTOR SUPPLIED GTT MODEL 764 PHASE SELECTOR. CONTRACTOR SHALL SUPPLY AND DELIVER ONE (1) ADDITIONAL GTT MODEL 764 PHASE SELECTOR TO CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122.
 - ALL MAST ARM WIRING SHALL TERMINATE AT A SIDE MOUNTED JUNCTION BOX ON TRAFFIC SIGNAL POLES. IF ONE IS NOT EXISTING, CONTRACTOR SHALL SUPPLY AND INSTALL THE JUNCTION BOX.
 - AT LOCATIONS WITH FULL OFFSITE IMPROVEMENTS, CONTRACTOR SHALL DRILL HOLES FOR THE PEDESTRIAN SIGNALS ON THE SIDE OF PEDESTRIAN SIGNAL POLE OR TRAFFIC SIGNAL POLE 180-DEGREES OPPOSITE THE ROAD LINE. PER STD DWG 880 AND AT 7-FEET, 6-INCHES ABOVE FINISHED GRADE PER STD DWG 880. AT LOCATIONS WITHOUT FULL OFFSITE IMPROVEMENTS, CONTRACTOR SHALL DRILL THE HOLES FOR THE PEDESTRIAN SIGNALS IN THE TRAFFIC SIGNAL POLE AS INDICATED IN THE TABLE BELOW. (QUADRANT SIGNAL LOCATION IS DEFINED AS 1-NORTH, 2-EAST, 3-SOUTH, 4-WEST.) IF PEDESTRIAN SIGNALS ARE NOT REQUIRED PER PLAN, CONTRACTOR SHALL DRILL HOLES AS INDICATED ABOVE AND SUPPLY AND INSTALL JUNCTION BOXES TO COVER THE HOLES PER STD DWG 880.
- | INTERSECTION CORNER | QUADRANT SIGNAL | LOCATION |
|---------------------|-----------------|----------|
| E | 2 | 3 |
| S | 3 | 2 |
| W | 1 | 4 |
- THE BOLT PATTERN FOR THE PEDESTRIAN POLE FOUNDATIONS SHALL BE ORIENTED IN THE SAME DIRECTION AS THE BOLT PATTERN FOR THE ADJACENT TRAFFIC SIGNAL POLE FOUNDATION AND NOT THE ADJACENT CURB LINE.
 - MULTI-SIDED (MINIMUM OF 18 SIDES) STEEL TRAFFIC SIGNAL MAST ARMS MAY BE USED.
 - CONTRACTOR SHALL SUPPLY AND INSTALL A POLARA EZ COMMUNICATOR NAVIGATOR ACCESSIBLE PEDESTRIAN SYSTEM, OR AN APPROVED EQUIVALENT BY THE ENGINEER. A SYSTEM SHALL INCLUDE A CENTRAL CONTROL UNIT, AN E-CONFIGURATOR, AND (EN2) 2-WIRE PUSH BUTTON STATION.
 - CONTRACTOR SHALL ALSO SUPPLY AND INSTALL 9'X12' PEDESTRIAN PUSH BUTTON SIGN AND PUSH BUTTON FRAME ADAPTORS FOR USE WITH 9'X12' PEDESTRIAN PUSH BUTTON SIGNS. PEDESTRIAN PUSH BUTTON SIGNS SHALL CONFORM TO MUTCD REQUIREMENTS UNLESS OTHERWISE SPECIFIED. SIGNS SHALL BE 9'X12" IN SIZE AND SHALL HAVE TYPE XI RETROREFLECTIVE SHEETING WITH PROTECTIVE OVERLAY FILM, AND WITH FOUR (4) DRILLED AND TAPPED HOLES FOR MOUNTING THE SIGN ON THE PED PUSH BUTTON ASSEMBLY. FOUR (4) STAINLESS STEEL TAMPER-PROOF SCREWS PER EACH PUSH BUTTON ASSEMBLY SHALL BE USED TO SECURE THE PEDESTRIAN PUSH BUTTON SIGN.
 - CONTRACTOR SHALL PRIME AND PAINT SIGNAL POLES, SIGNAL MAST ARMS, LUMINAIRE MAST ARMS, TENONS, CAMERA EXTENSION POLES, INTERNALLY ILLUMINATED STREET NAME SIGN BRACKETS, AND VANDALISM PLATES. COLOR SHALL BE FIR GREEN (RAL 6009) METALLIC.

STREETLIGHTING

- EXISTING INTERSECTION LUMINAIRES AND FIXTURES SHALL BE REMOVED AND REPLACED WITH 400 WATT EQUIVALENT LIGHT EMITTING DIODE (LED) LUMINAIRES AND FIXTURES. AN ELECTRONIC PHOTOCELL (TYCO ELECTRONICS #SST-PV-IES-BL OR APPROVED EQUIVALENT) SHALL BE INSTALLED ON EACH LUMINAIRE. IF 20-FOOT HEIGHT TRAFFIC SIGNAL POLE IS USED, AN ELECTRONIC PHOTOCELL SHALL BE INSTALLED ON THE POLE CAP (TYCO ELECTRONICS # SST-PV-IES-BL OR APPROVED EQUIVALENT). EACH POLE SUPPORTING ONE OR MORE LUMINAIRES SHALL BE ELECTRICALLY FED BY AN INDIVIDUAL 120V-1P-30A BREAKER IN THE ELECTRICAL SERVICE PEDESTAL AND A HOMERUN OF TWO (2) #10 AWG THW-2 OR XHHW-2 COPPER WIRES (BLACK AND WHITE) FROM EACH POLE TO THE CONTROLLER CABINET. THE GREEN GROUND WIRE (THW-2 OR XHHW-2) SHALL BE CONNECTED TO THE GROUND BUSS WITHIN THE CONTROLLER CABINET.
- 240 VOLT STREET LIGHT CONDUITS SHALL BE SEPARATE FROM TRAFFIC SIGNAL AND INTERSECTION LIGHTING CONDUITS. EACH SHALL HAVE SEPARATE PULL BOXES.
- IF REQUIRED BY THE TRAFFIC SIGNAL PLANS AND/OR STREET LIGHT PLANS, CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY, CHIP FOUNDATION EIGHTEEN (18) INCHES BELOW FINISHED GRADE OR EXISTING GRADE; INTERCEPT EXISTING CONDUIT AND WIRING INTO A NO. 3/2 PULL BOX, WHILE MAINTAINING THE EXISTING STREET LIGHT CIRCUIT. LAMPS SHALL BE SEPARATED FROM THE LUMINAIRES AND DISPOSED OF PROPERLY. PRIOR TO DELIVERING THE SALVAGED LUMINAIRES TO CLARK COUNTY TRAFFIC OPERATIONS, EXISTING LUMINAIRE ARMS SHALL ALSO BE REMOVED AND DISASSEMBLED PRIOR TO DELIVERING THE SALVAGED STREETLIGHT POLES AND LUMINAIRE ARMS TO CLARK COUNTY TRAFFIC OPERATIONS.
- AT LOCATIONS WHERE EXISTING INTERSECTION LIGHTING IS ON AN EXISTING 240V STREETLIGHT CIRCUIT, THE CONTRACTOR SHALL REPLACE THE EXISTING 400W, 240V STREETLIGHT FIXTURE WITH A NEW 120V, 400W EQUIVALENT LIGHT EMITTING DIODE (LED) LAMP AND OUTLET STREETLIGHT FIXTURE. ALL REMAINING STREETLIGHTS SHALL REMAIN FULLY OPERATIONAL ON THE EXISTING STREETLIGHT CIRCUIT. THE CONTRACTOR SHALL ENSURE THE CONTINUITY OF THE EXISTING 240V STREETLIGHT CIRCUIT WHILE REPLACING THE LUMINAIRES AT THE SIGNALIZED INTERSECTION. INTERSECTION LIGHTING AND THE TRAFFIC SIGNAL SHALL BE FED FROM THE SAME SERVICE POINT.

VEHICLE/ PEDESTRIAN HEADS

- ALL TRAFFIC SIGNAL VEHICLE INDICATIONS SHALL USE A 12 INCH SIGNAL LENS.
- ALL TRAFFIC SIGNAL PEDESTRIAN INDICATIONS SHALL USE A 9 INCH HIGH INDICATOR.
- ALL TRAFFIC SIGNAL VEHICLE HEADS SHALL USE FULL-CIRCLE VISORS UNLESS OTHERWISE NOTED ON THE PLANS.
- AT LOCATIONS WHERE VISUALLY ORIENTED TRAFFIC SIGNAL VEHICULAR HEADS ARE REQUIRED, GEOMETRICALLY PROGRAMMED LOUVER WITH ASSOCIATED ADJUSTABLE 12-INCH FULL CIRCLE VISOR SHALL BE USED. CONTRACTOR SHALL SUPPLY AND INSTALL A GEOMETRICALLY PROGRAMMED LOUVER THAT PERMITS INCREMENTAL TILTING FROM 7 DEGREES TO 15 DEGREES ABOVE OR BELOW THE HORIZONTAL WHILE MAINTAINING A COMMON VERTICAL AXIS THROUGH COUPLERS AND MOUNTING.
- ALL TRAFFIC SIGNAL VEHICLE HEADS SHALL HAVE LOUVERED BACKPLATES. BACKPLATES SHALL BE PAINTED OR POWDER COATED BLACK (FRONT SIDE)/GREEN (BACKSIDE).
- PEDESTRIAN PUSH BUTTONS SHALL MEET THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND BE INSTALLED ON POLE AT A HEIGHT BETWEEN THIRTY-SIX (36) INCHES AND FORTY-TWO (42) INCHES FROM FINISHED GRADE. PEDESTRIAN PUSH BUTTON SIGN SHALL BE R10-3E (9'X12").
- ALL PEDESTRIAN SIGNAL ASSEMBLIES SHALL BE SUPPLIED WITH L.E.D. MESSAGE MODULES. THE "HAND" SHALL BE PORTLAND ORANGE L.E.D., THE "WALKING PERSON" SHALL BE LUNAR WHITE L.E.D. AS SPECIFIED IN THE STANDARD SPECIFICATIONS. THE SYMBOL SHALL BE ENTIRELY LIGHTED AND NOT HOLLOW.
- ALL PEDESTRIAN SIGNALS SHALL BE EQUIPPED TO COUNT DOWN THE PEDESTRIAN CLEARANCE INTERVAL. EXISTING NON-COUNT DOWN PEDESTRIAN SIGNAL HEADS SHALL BE CHANGED TO COUNT DOWN TYPE.
- ALL TRAFFIC SIGNAL VEHICLE INDICATIONS SHALL BE LIGHT EMITTING DIODE (L.E.D.) AS SPECIFIED IN THE SPECIAL PROVISIONS AND THE MOST RECENT I.E. SPECIFICATIONS.
- ALL L.E.D. MODULES SHALL COMPLY WITH THE MOST RECENT SPECIFICATIONS AND TECHNOLOGY AS ADOPTED AND APPROVED BY THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE).
- CONTRACTOR SHALL SUPPLY AND INSTALL TRAFFIC SIGNAL, FLASHER AND PEDESTRIAN HEAD COVERS ON EACH INSTALLED NEW SIGNAL AND PEDESTRIAN HEAD. THE COVER SHALL BE TRAFFIC JACKETS AS SUPPLIED BY PHOENIX HIGHWAY PRODUCTS, OR AN APPROVED EQUAL BY CLARK COUNTY TRAFFIC MANAGER. THE COVERS SHALL BE BRIGHT ORANGE WITH A VERTICAL MESSAGE "NOT IN SERVICE" IN BLACK ON EACH COVER. FOR NEW CONSTRUCTION, THE COVERS SHALL BE BLACK WITH A VERTICAL MESSAGE "NOT IN SERVICE" IN WHITE ON EACH COVER. FOR MODIFICATIONS TO A TRAFFIC SIGNAL ALREADY IN OPERATION, THE TRAFFIC SIGNAL, FLASHER AND/OR PEDESTRIAN HEAD COVERS REMAIN THE PROPERTY OF THE CONTRACTOR UNTIL THE SIGNAL IS ENERGIZED AND IS ACCEPTED BY CLARK COUNTY, UPON WHICH THEY BECOME THE PROPERTY OF CLARK COUNTY.

CONTROLLER AND SERVICE PEDESTAL

- THE NEVADA ENERGY TRANSFORMER SHALL BE A MAXIMUM OF THREE HUNDRED AND FIFTY (350) FEET FROM THE SERVICE PEDESTAL, UNLESS APPROVED OTHERWISE BY THE TRAFFIC MANAGER.
- THE SERVICE PEDESTAL SHALL BE A MAXIMUM OF FIVE (5) FEET FROM THE CONTROLLER CABINET.
- ALL ELECTRONIC PHOTOCELLS FOR STREET LIGHTS SHALL BE INSTALLED IN THE SERVICE PEDESTALS FROM WHICH THE STREET LIGHTS ARE FED. THE ELECTRONIC PHOTOCELLS SHALL BE TYCO ELECTRONICS # SST-PV-IES -BL OR APPROVED EQUIVALENT.
- CONTRACTOR SHALL SUPPLY A NAZTEC MODEL 980 ATC SIGNAL CONTROLLER WITH APOGEE ACTUATED SIGNAL CONTROLLER SOFTWARE (LATEST VERSION) AND TWO (2) GTT MODEL 764 EMERGENCY REDUNDANT SELECTORS FOR EACH TRAFFIC SIGNAL SYSTEM. CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET, CONTROLLER, LOOP AMPLIFIERS, AND EMERGENCY VEHICLE PHASE SELECTORS TO CLARK COUNTY TRAFFIC OPERATIONS, COURTNEY (14) DAYS PRIOR TO SIGNAL TURN-UP FOR TESTING. THE CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET AT CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD BY APPOINTMENT ONLY. THE CONTRACTOR SHALL NOTIFY CLARK COUNTY AT (702) 455-6000 SEVEN (7) DAYS PRIOR TO PICK-UP.
- FOR CLARK COUNTY PUBLIC WORKS FUNDED PROJECTS, THE CONTRACTOR SHALL INSTALL THE CONTRACTOR-SUPPLIED CONTROLLER CABINET ON A CONTRACTOR FURNISHED FOUNDATION. FOR NON-CANON CANON PUBLIC WORKS FUNDED PROJECTS, THE CONTRACTOR SHALL INSTALL A CONTRACTOR-SUPPLIED COUNTY STANDARD CONTROLLER CABINET ON A CONTRACTOR FURNISHED FOUNDATION. ALL EQUIPMENT TO BE INSTALLED WITHIN THE CABINET SHALL BE FURNISHED BY THE CONTRACTOR.
- ALL TRAFFIC SIGNALS SHALL BE POWERED FROM A 200 AMP SERVICE PEDESTAL.
- ALL 200AMP SERVICE PEDESTAL SHALL INCLUDE THE FOLLOWING:
 - ONE (1) 200 AMP MAIN BREAKER (MAIN)
 - ONE (1) 60 AMP SINGLE POLE CIRCUIT BREAKER (TRAFFIC SIGNAL)
 - FOUR (4) 30 AMP SINGLE POLE CIRCUIT BREAKERS (INTERSECTION LIGHTING)
 - ONE (1) 15 AMP SINGLE POLE CIRCUIT BREAKER (PHOTO CELL)
 - TWO (2) 60 AMP 240V DOUBLE POLE CIRCUIT BREAKERS (STREET LIGHTING)
 - TWO (2) DOUBLE POLE LIGHTING CONTROLLER (W/200V WITH (574 0338140220AAAZ OR APPROVED EQUAL)
 - ONE (1) 120 VOLT ELECTRONIC PHOTO ELECTRIC CONTROLS (TYCO ELECTRONICS # SST-PV-IES -BL OR APPROVED EQUAL)
- IF AN EXISTING SERVICE PEDESTAL IS USED TO POWER THE TRAFFIC SIGNAL, CONTRACTOR SHALL INSPECT THE EXISTING SERVICE PEDESTAL, AND SUPPLY AND INSTALL ANY MISSING BREAKERS.
- NEW SERVICE PEDESTALS AND TRAFFIC SIGNAL CABINETS AND THE DOORS OF THIS EQUIPMENT SHALL BE FINISHED INSIDE AND OUT WITH GLOSS POLYURETHANE POWDER COATING CONSISTING OF FEDERAL SPECIFICATION 595 POLYURETHANE, INDUSTRIAL GRADE HIGH GLOSS POWDER PAINT WITH 1.7 MIL THICKNESS MINIMUM. SERVICE PEDESTALS SHALL BE MINT GREEN (FEDERAL COLOR 14672) AND TRAFFIC CONTROL CABINETS SHALL BE HIGH GLOSS PURE WHITE. THE FINISH SHALL PRESENT A SMOOTH SURFACE, UNIFORM IN COLOR AND FREE OF RUNS, SAGS OR OTHER IRREGULARITIES.

ILLUMINATED STREET NAME SIGNS

- CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ILLUMINATED STREET NAME SIGNS AS SHOWN IN THE PLANS.
- ALL ILLUMINATED STREET NAME SIGNS SHALL BE EIGHT (8) FEET IN LENGTH.
- ALL ILLUMINATED STREET NAME SIGNS SHALL USE TRANSLUCENT WHITE WIDE ANGLE PRISMATIC REFLECTIVE SIGN FACE SHEETING. SHEETING SHALL CONFORM TO ASTM D4956, TYPE XI SHEETING. STREET NAMES SHALL BE APPLIED ON TOP OF THE PRISMATIC REFLECTIVE SIGN FACE SHEETING BY EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OWNER-LAYED WITH GREEN ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A CLEAR HIGH IMPACT RESISTANT, REINFORCED ACRYLIC PANEL.
- STREET NAME SHALL BE IN UPPER AND LOWER CASE LETTERS USING 12-INCH SERIES D WITH THE STREET CARDINAL DIRECTION, SUFFIX AND BLOCK NUMBER IN 5-INCH SERIES C AND IN ALL UPPER CASE. KERNING VALUE IS 110X. WIND LOADING SHALL BE A MINIMUM OF 90 MPH. IF NECESSARY TO MAKE SPACING FIT, 12-INCH SERIES C LETTERS MAY BE USED. LOWER CASE LETTERS SHALL BE 9-INCH IN HEIGHT.
- APPROVAL OF SHOP DRAWINGS OF SIGN FACE LAYOUT BY THE PROJECT ENGINEER IS REQUIRED PRIOR TO FABRICATION OF SIGN.
- SHEETING SHALL BE APPLIED IN A VERTICAL ORIENTATION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- THE HOT LEAD SHALL BE CONNECTED TO THE LOAD SIDE OF THE LUMINAIRE P.E. CONTROL OF THE RELATED STREET LIGHT. THIS TERMINATION SHALL BE MADE AND ACCESSIBLE IN THE HANDHOLD LOCATED AT THE BASE OF THE TRAFFIC SIGNAL POLE. THE NEUTRAL WIRE SHALL BE CONNECTED TO THE STREET LIGHT NEUTRAL AT THE HANDHOLE. NO. 12 THW-2 OR XHHW-2 CONDUCTOR SHALL BE USED. THE STREET NAME SIGN SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL ON THE RELATED STREET LIGHT DIRECTLY OVER MAST ARM. ALL THESE TERMINATIONS SHALL BE MADE AND ACCESSIBLE IN THE HANDHOLD LOCATED AT THE BASE OF THE TRAFFIC SIGNAL POLE.
- ALL ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE FACED UNLESS OTHERWISE NOTED IN THE POLE SCHEDULE.
- TWO (2) 8-FOOT BI-DIRECTIONAL LIGHT EMITTING DIODE (LED) TUBE LAMPS WITH 180-DEGREE LIGHT DISTRIBUTION AND INTERNAL DRIVERS ARE REQUIRED FOR EACH ILLUMINATED STREET NAMES SIGN. LAMP SHALL HAVE SINGLE PIN FAB CONTACT AT EACH END.
- CONTRACTOR SHALL SUPPLY AND INSTALL ONE 14/3 STRANDED SEOWW CORD THAT SHALL RUN CONTINUOUSLY FROM THE INTERNALLY ILLUMINATED STREET NAME SIGN ENCLOSURE, THROUGH TWO STRAIN RELIEF CONNECTORS, TO THE HAND HOLE AT THE BASE OF THE TRAFFIC SIGNAL POLE. ONE NO. 10 RED CONDUCTOR SHALL RUN FROM THE PHOTOCELL ON TOP OF THE LUMINAIRE TO THE HAND HOLE AT THE BASE OF THE TRAFFIC SIGNAL POLE. CONNECTIONS BETWEEN THE STREET NAME SIGN AND THE PHOTOCELL SHALL BE MADE AT THE HAND HOLE AT THE BASE OF THE POLE.
- THE STRAIN RELIEF CONNECTORS SHALL BE STRAIGHT ALUMINUM DELUXE CORD GRIP/STRAIN RELIEF CONNECTORS THAT ARE COMPATIBLE WITH A 0.005-INCH TO 0.625-INCH CORD DIAMETER. STRAIN RELIEF CONNECTOR SHALL BE HUBBELL #2 OR AN APPROVED EQUIVALENT BY THE TRAFFIC MANAGER.
- THE SEOWW CORD SHALL HAVE THREE (3) NO. 14 AWG CONDUCTORS (BLACK, GREEN AND WHITE), AND HAVE THERMOPLASTIC ELASTOMER (TPE) INSULATION AND THERMOPLASTIC ELASTOMER (TPE) JACKET. THE SEOWW CORD SHALL BE WATER-RESISTANT, UL LISTED, RATED FOR 600 VOLTS, WITH TEMPERATURE RANGE FROM 105 DEGREES CELSIUS TO -50 DEGREES CELSIUS. SEOWW CORD SHALL BE CQ SEOPRENE 105 14 AWG 3/C SEOWW E54864 OR AN APPROVED EQUIVALENT BY THE TRAFFIC MANAGER.
- INTERNALLY ILLUMINATED STREET NAME SIGN AND ASSOCIATED BRACKETS SHALL BE FROM THE SAME MANUFACTURER. TWO (2) BAND-IT TYPE BANDS SHALL BE USED FOR EACH BRACKET.

Plotted By: Element, Griffin, Sheet: S11-010, Layout: TS-02, K:\AAV-Civil\092725002-Resorts World LV PH1\CADD\PlanSheets\Bldg Alternates\092725002-TS10-Overall.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NO.	REVISIONS	DATE	BY
2	REVISED PER REVISION NO. 2	11/13/2019	KH
1	ISSUED FOR CONSTRUCTION	10/23/2019	KH

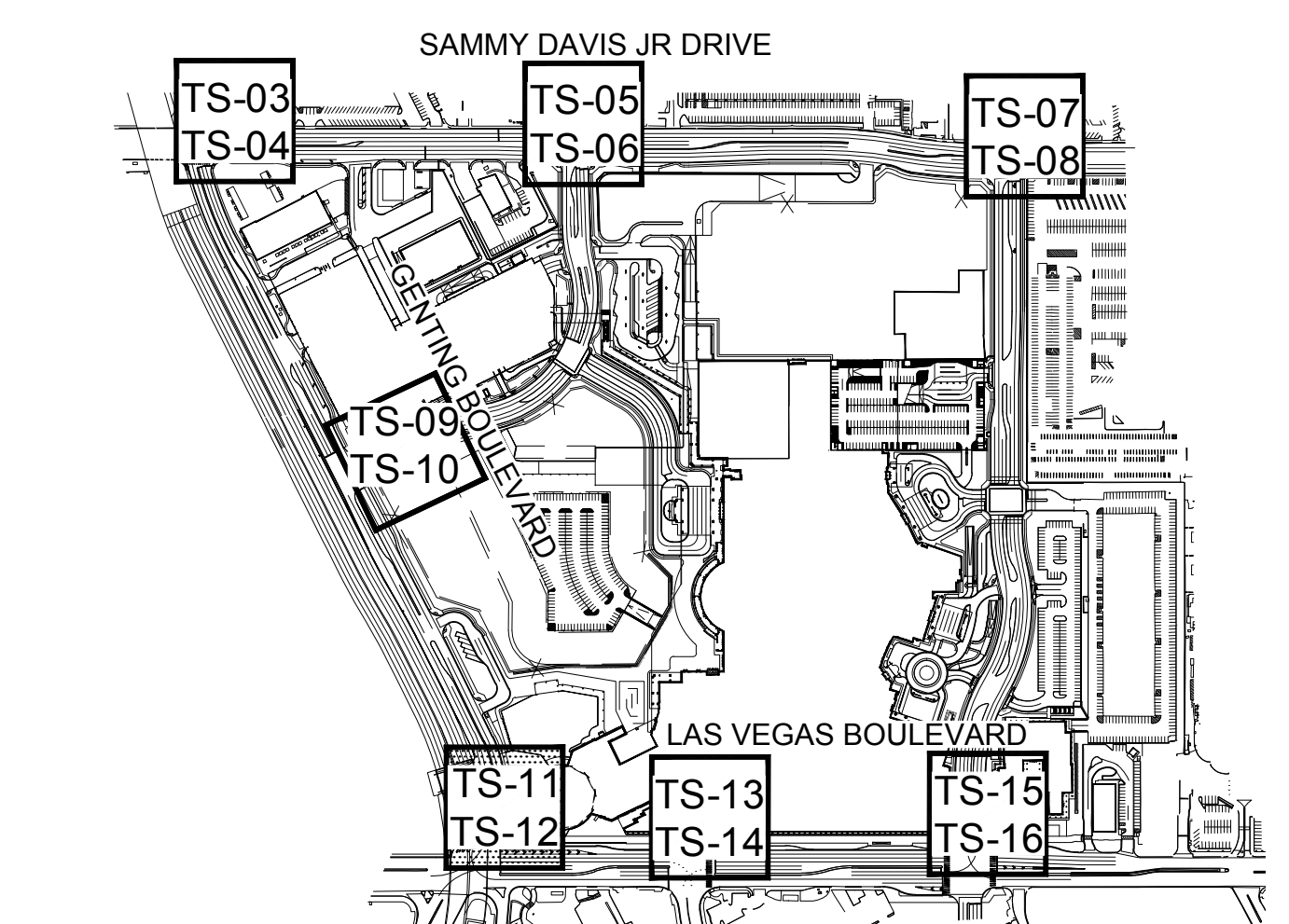
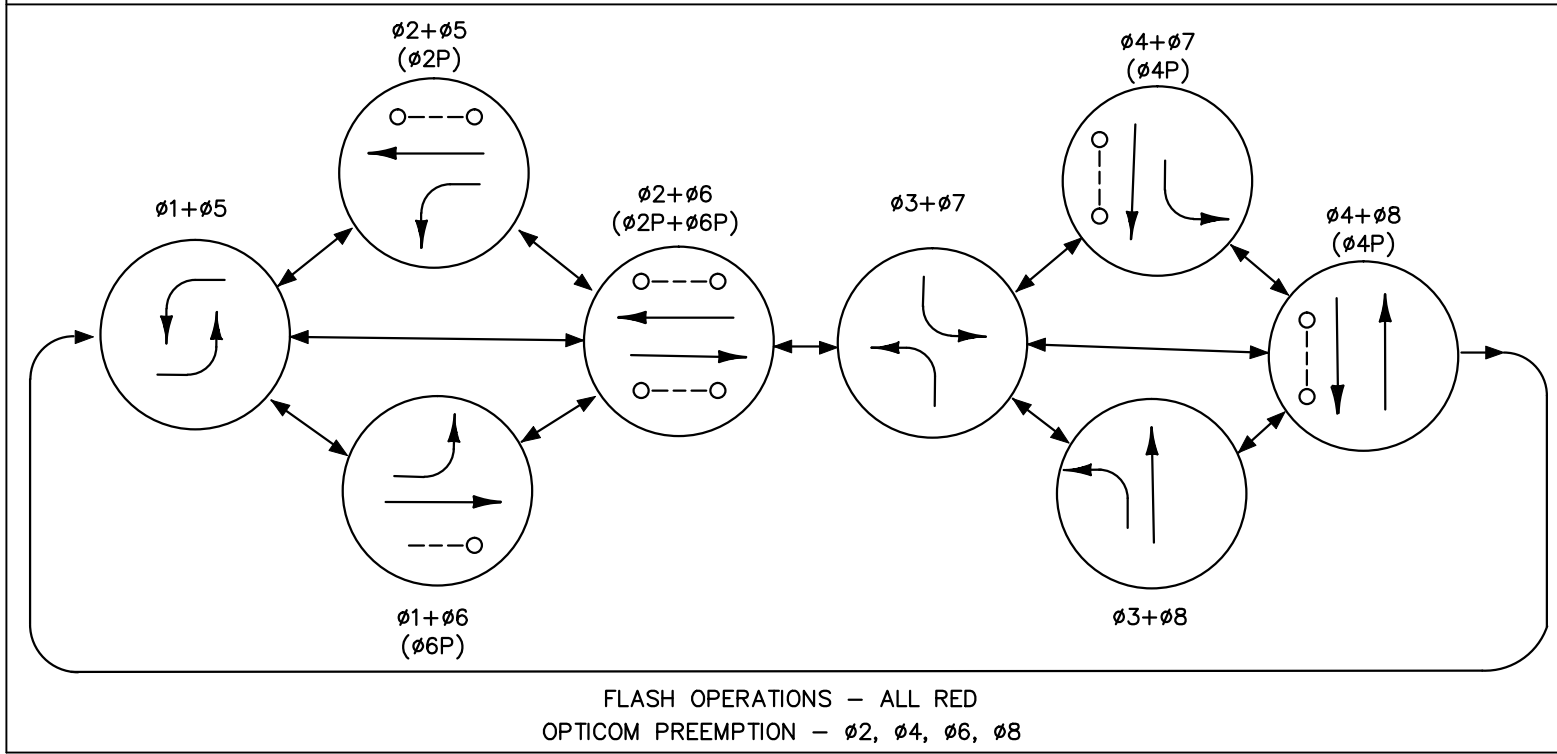
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S.,

Plotted By: Leo Sughbaro, Killes Sheet Set: KHA-Layout-TS-11 - K:\AV-Civil\092755002-Resorts World LV Pk\CAD\PlanSheets\Bid Alternates\092755002-TS11.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of information on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

SIGN SCHEDULE

R3-4 36"x36"	R9-3 18"x18"	R9-3BL 18"x12"	RNV2-10 36"x30"

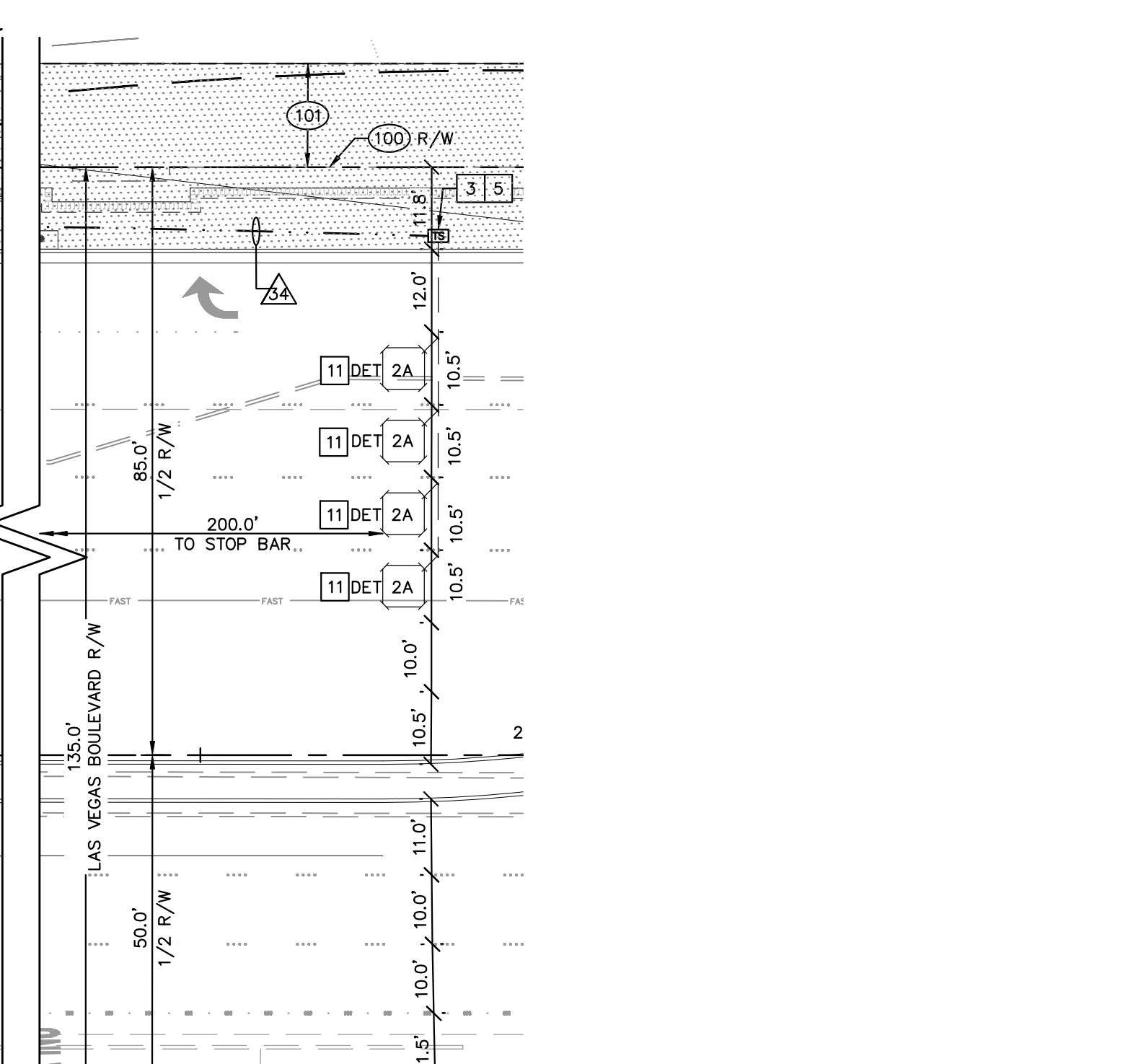
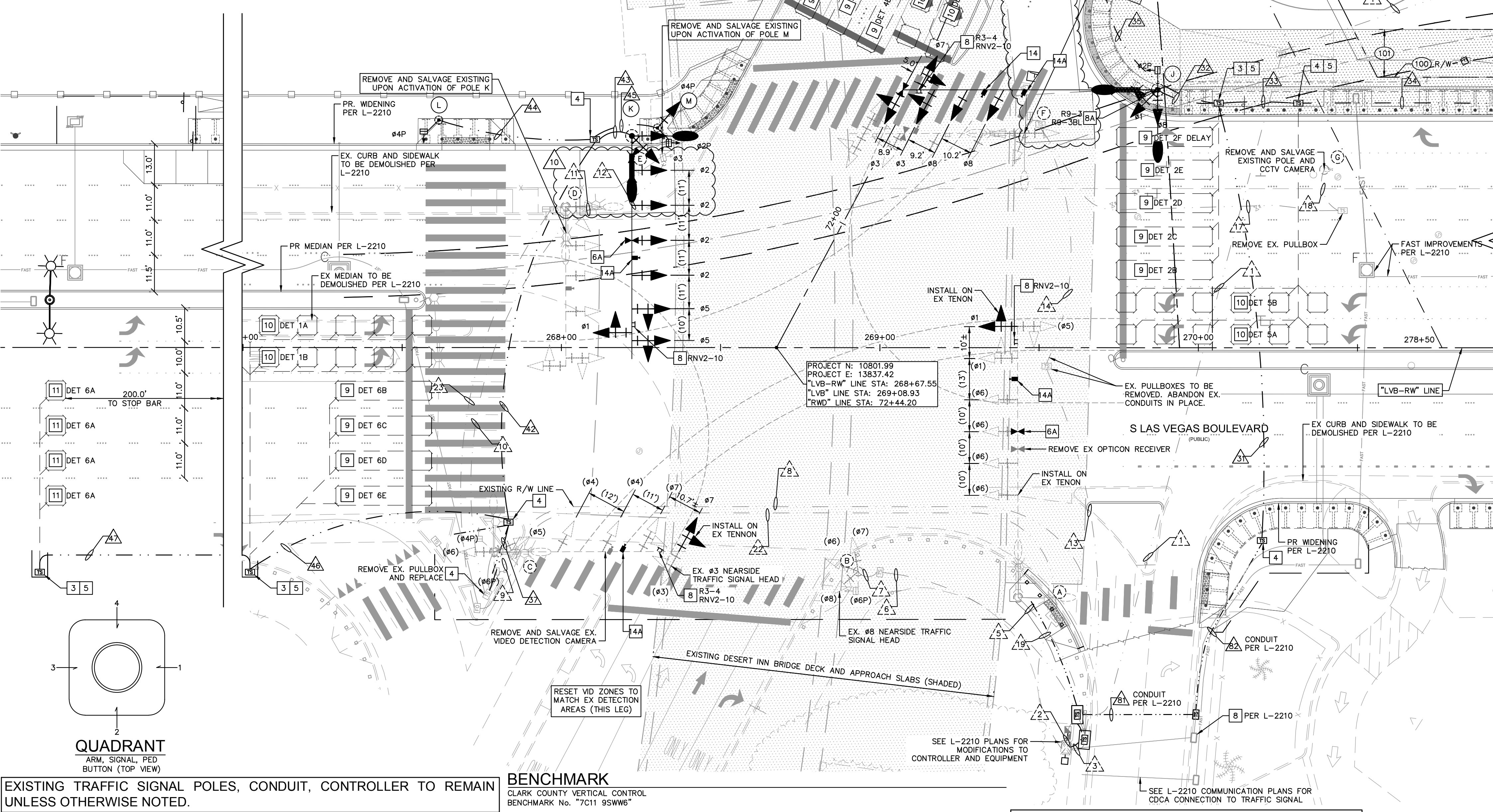
PROPOSED PHASE DIAGRAM



KEY MAP
NTS

CONSTRUCTION NOTES
REFER TO SHEET TS-12 FOR CONSTRUCTION NOTES.

CONDUIT, WIRE & POLE SCHEDULE
REFER TO SHEET TS-12 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET



RIGHT-OF-WAY AND EASEMENTS

- 100 EX. R/W
- 101 PR. R/W PER FINAL MAP #NFM 19-500109

NOTE: CONTRACTOR SHALL ENSURE EXISTING SIGNAL AND FAST INFRASTRUCTURE REMAINS IN OPERATION DURING CONSTRUCTION.

NOTE: Contractor shall contact Clark County Traffic Operations directly at 455-6000 to schedule County Staff to locate underground streetlighting and signal facilities in the project area. A **MINIMUM of 48 hours notice** is required prior to locating. Hours of operation: 6:30 am - 3:00pm, Monday through Friday excluding Holidays.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

BY: _____
Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you Dig
Call before you UnderGround
1-702-432-5300

Call before you Overhead
1-800-227-2600 1-702-227-2929

GRAPHIC SCALE IN FEET
0 10 20 40
SCALE: 1" = 20'

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA

EXISTING TRAFFIC SIGNAL POLES, CONDUIT, CONTROLLER TO REMAIN UNLESS OTHERWISE NOTED.

NOTE:
1. EXISTING CONDUIT SHOWN IS FROM CLARK COUNTY PLAN L-1892
2. MAINTAIN EXISTING VIDEO DETECTION FOR SOUTH AND EAST INTERSECTION LEGS.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "7C11 95W6"
RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
ELEVATION = 637.459 METERS
2091.40 FEET
CONVERSION TO 2018 BENCHMARK:
637.459-0.073m=637.386 METERS
2091.40-0.24=2091.16 FEET
CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)
BASIS OF BEARING
NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NOTE:
ALL TRAFFIC SIGNAL IMPROVEMENTS SHALL BE CONSTRUCTED PER COUNTY STANDARDS AND L-2210 SPECIAL PROVISIONS.

Kimley-Horn
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

THOMAS ACKER
Exp. 12/31/22
CIVIL ENGINEER
No. 18592

**TRAFFIC SIGNAL PLAN
LAS VEGAS BLVD -
RESORTS WORLD DR**

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA

SHEET NUMBER
TS-11

ISSUED FOR CONSTRUCTION
CHECKED BY: _____
DRAWN BY: _____
DESIGNED BY: _____
SCALE: AS SHOWN
DATE: 10/23/2019
KHA PROJECT: 092755002

REVISIONS
No. DATE BY
0 ISSUED FOR CONSTRUCTION 10/23/2019 KH
1 REVISED PER REVISION No. 2 11/13/2019 KH
2 REVISED PER REVISION No. 4 2/18/2020 KH
4 R/W RELATED IMPROVEMENT REV 09/04/2020 KH
7 R/W RELATED IMPROVEMENT REV 12/28/2020 KH
9 LVB-RELATED INTERSECTION REVISION 04/20/2021 KH
10 LVB-RELATED INTERSECTION REVISION 04/20/2021 KH

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
PH 4-PW18-18984, PH 5-PW18-18985 (TDS UPDATE), PH 6-PW18-18986 (TDS UPDATE), PH 7-PW18-18987 (TDS UPDATE), PH 8-PW18-18988 (TDS UPDATE), PH 9-PW18-18989 (TDS UPDATE), PH 10-PW18-18990 (TDS UPDATE), PH 11-PW18-18991 (TDS UPDATE), PH 12-PW18-18992 (TDS UPDATE), PH 13-PW18-18993 (TDS UPDATE), PH 14-PW18-18994 (TDS UPDATE), PH 15-PW18-18995 (TDS UPDATE), PH 16-PW18-18996 (TDS UPDATE), PH 17-PW18-18997 (TDS UPDATE), PH 18-PW18-18998 (TDS UPDATE), PH 19-PW18-18999 (TDS UPDATE), PH 20-PW18-19000 (TDS UPDATE)

Plotted By: Leo-Sugihara, Kallie - Sheet Set: 010 - Layout: TS-14 - K:\AV-Civil\092755002-Reports World LV PH1\CAD\Plan\Sheet\Bid Alternates\092755002-TS.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

POLE SCHEDULE

POLE	LOCATION STATION & OFFSET (LAS VEGAS BOULEVARD) TOP OF FOUNDATION ELEV.	POLE				VEHICLE SIGNALS				PEDESTRIAN SIGNALS		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS			EMERGENCY VEHICLE DETECTOR	REMARKS	
		TYPE	FOUND	MAST ARM		LUMINAIRE		TYPE	QUAD	TYPE	QUAD	ARROW	QUAD	TYPE	PHASE	QUAD			
				QUAD	LENGTH	QUAD	LENGTH												
(A)	STA: 275+88.70 (EX) OFF: 47.70' RT (EX) ELEV: (EX)	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE & SALVAGE EX. POLE & HARDWARE	
(B)	STA: 274+58.00 OFF: 66.40' LT ELEV: (EX)	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE & SALVAGE EX. POLE & HARDWARE	
(C)	STA: 274+44.14 OFF: 50.06' LT ELEV: (EX)	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE & SALVAGE EX. POLE & HARDWARE	
(D)	STA: 275+61.84 OFF: 49.03' LT ELEV: (EX)	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE & SALVAGE EX. POLE & HARDWARE	
(E)	STA: 275+60.70 (EX) OFF: 58.00' RT (EX) ELEV: (EX)	(EX)	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE & SALVAGE EX. POLE & HARDWARE	
(E1)	STA: 275+60.70 (EX) OFF: 58.00' RT (EX) ELEV: (EX)	1-A	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INSTALL NEW POLE ON EX. FOUNDATION & REWIRE NEW POLE	
(F)	STA: 274+45.60 (EX) OFF: 51.00' RT (EX) ELEV: (EX)	(EX)	(EX)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE & SALVAGE EX. POLE & HARDWARE	
(W)	STA: 274+46 OFF: 68.0' LT ELEV: 2067.5	XX-B	M	2	65'	1	15'	(2) M-2L (4) M-2 (1) B-2T	MA MA MA	4	-	-	-	-	RED BLUE	#2 #3	3	-	6A 7 8 8A 12 13 14A 22 25 28 29
(X)	STA: 275+56 OFF: 81.5' LT ELEV: 2066.8	XX-B	M	3	50'	2	15'	(2) M-2L (1) M-2 (1) B-2T	MA MA MA	1	W-3T	1	LT RT	1 4	-	-	-	-	6 7 8 14A 25 27 28 29
(Y)	STA: 275+97 OFF: 48.1' RT ELEV: 2066.4	XX-B	M	4	55'	3	15'	(2) M-2L (3) M-2 (1) B-2T	MA MA MA	2	-	-	-	-	RED BLUE	#6 #7	1	-	6A 7 8 14A 22 25 28 29
(Z)	STA: 274+47 OFF: 60.0' RT ELEV: 2067.2 (FROM L-2210)	XX-B	M	1	60'	1	15'	(1) M-2L (1) M-2** (2) M-2 (1) B-2T	MA MA MA	3	W-OT	3	RT	4	RED BLUE	#4 #5	2	-	6 7 8 8A 14A 25 28 31
(V)	STA: 274+69 OFF: 98.6' LT ELEV: 2067.4	1-A	C	-	-	-	-	-	-	-	W-1T	TOP	RT	2	-	-	-	-	-

NOTE: PROPOSED LUMINAIRES SHALL CONFORM WITH CURRENT (AS OF DATE OF INSPECTION) CLARK COUNTY STANDARDS AND SPECIFICATIONS
 ALL TRAFFIC SIGNAL HEADS SHALL BE INSTALLED WITH A REFLECTIVE PERIMETER STRIP (PER CLARK COUNTY REQUIREMENTS)
 ** - SIGNAL HEAD MOUNTED ON THE BACKSIDE OF MAST ARM

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	CONDUIT																									
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
(3) No. 2/0 AWG	SERVICE PEDESTAL	SERVICE PEDESTAL	•																									
(3) No. 4 CONDUCTOR THW-2 OR XHHW-2 (1) No. 8 GROUND (GREEN)	SERVICE PEDESTAL	CONTROLLER		•																								
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE, M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE W			•	•																						
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE, M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE X				•	•	•																				
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE, M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE Y					•	•	•																			
(1) 25 COND. IMSA 20-1 No. 14 (1) VIDEO DETECTION CABLE (1) CCTV CABLE	CONTROLLER	POLE Z						•	•	•																		
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE E/E1							•	•	•																	
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE V								•	•																	
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE W			•	•	•																					
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE X				•	•	•	•																			
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE Y					•	•	•	•																		
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE Z						•	•	•	•																	
(2) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#1 LOOPS																										
(5) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#2 LOOPS																										
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#2 ADVANCE LOOPS																										
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#3 LOOPS																										
(2) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#4 LOOPS																										
(2) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#5 LOOPS																										
(3) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#6 LOOPS																										
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#6 ADVANCE LOOPS																										
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#7 LOOPS																										
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#8 LOOPS																										
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#8 ADVANCED LOOPS																										
(1) No. 8 (GREEN)	CONTROLLER TO POLES		1	2	7	2	2	4	2	4	2	11	2	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1
PULL ROPE	(NUMBER AS SHOWN)		1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)
 * CONTRACTOR SHALL COORDINATE WITH NV ENERGY TO CONNECT PROPOSED SERVICE PEDESTAL TO SERVICE POINT

TRAFFIC SIGNAL RELOCATION GENERAL NOTES

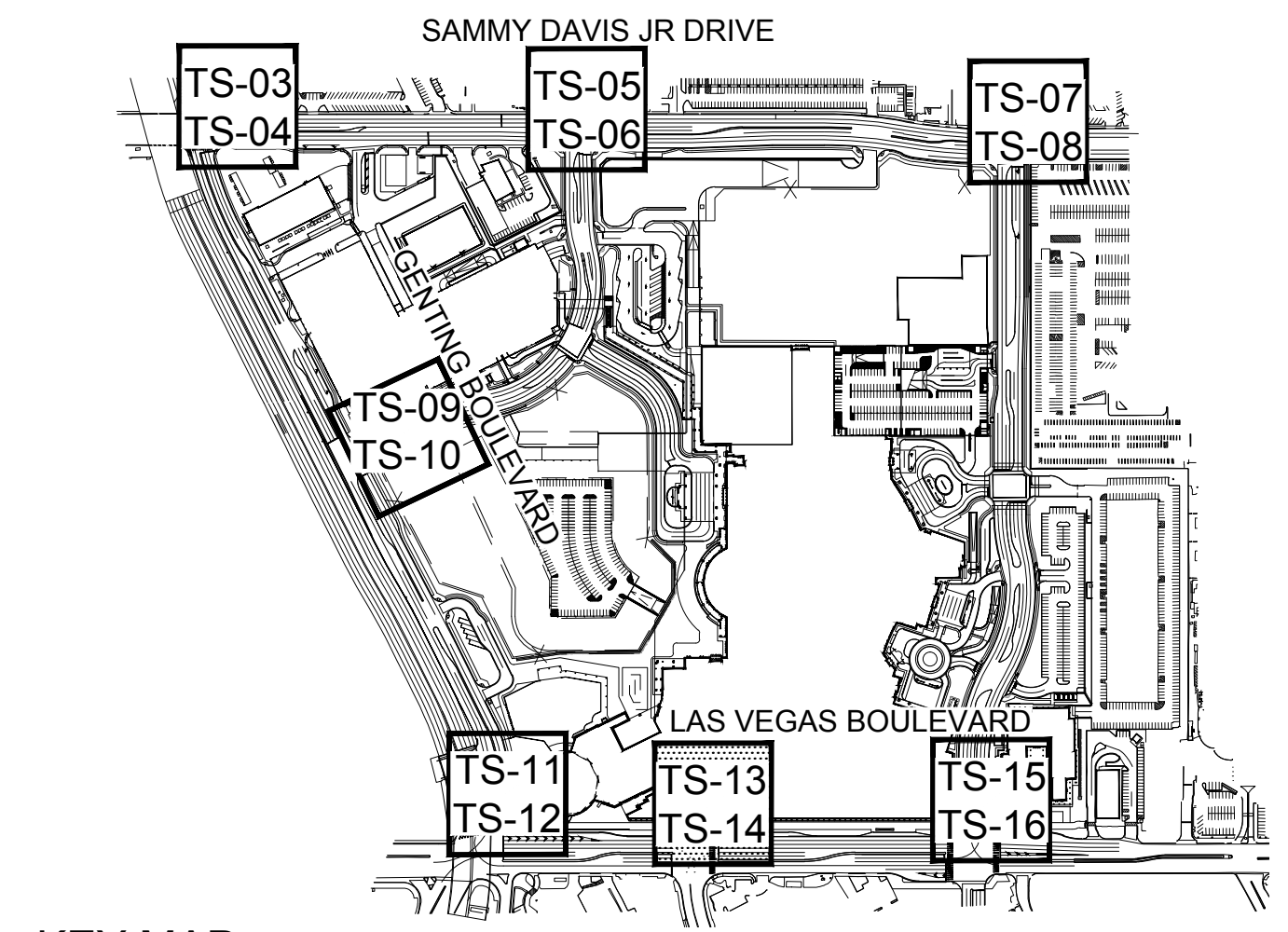
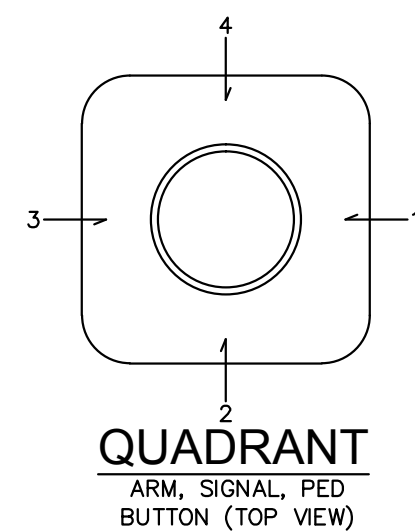
- TEST THE FUNCTIONALITY OF THE SURVEILLANCE CAMERA UPON INSTALLATION THROUGH DIRECT CONNECTION OF THE FIELD WIRING AT THE CONTROLLER CABINET. NOTIFY THE ENGINEER AND DOCUMENT ALL TESTS. THE ENGINEER RESERVES THE RIGHT TO WITNESS ALL TESTS.
- UPON COMPLETION OF THE FUNCTIONALITY TEST, INSTALL VIDEO AND DATA CONNECTIONS TO THE LOCAL COMMUNICATIONS INFRASTRUCTURE IN ACCORDANCE WITH F.A.S.T. REQUIREMENTS AT (702) 432-5300.
- SURVEILLANCE CAMERA SHALL BE RELOCATED TO F.A.S.T. SATISFACTION.
- A FAST REPRESENTATIVE SHALL BE ON SITE WHEN THIS WORK IS COMPLETED. THE CONTRACTOR SHALL CONTACT FAST AT (702) 432-5300 A MINIMUM OF 48 HOURS PRIOR TO THE DATE WHEN THE EXISTING POLE IS SCHEDULED TO BE REMOVED TO COORDINATE THE TIME WHEN A FAST REPRESENTATIVE CAN BE PRESENT.

STREET NAME SIGN SCHEDULE

POLE	NO.	DIRECTION	STREET NAME	SUFFIX	BLOCK NO.	REMARKS
(W)			← CONVENTION CENTER			7 9
(X)	S		LAS VEGAS	BOULEVARD	3000	7 9
(Y)			← CONVENTION CENTER			7 9
(Z)	S		LAS VEGAS	BOULEVARD	3000	7 9

NOTE:
 SEE SHEET TS-17 FOR ILLUMINATED SIGN LAYOUTS.

NOTE:
 ALL TRAFFIC SIGNAL IMPROVEMENTS SHALL BE CONSTRUCTED PER COUNTY STANDARDS AND L-2210 SPECIAL PROVISIONS.



KEY MAP

NTS

CONSTRUCTION NOTES

- FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ONTO CONCRETE FOUNDATION PER CCAUSD NO. 730, PROVIDE (1) EACH 60 AMP, 120 VOLT, 1P CONTROLLER (TRAFFIC SIGNAL) CKT BKR AND (1) EACH, 40 AMP, 120 VOLT, 1P INTERSECTION LIGHTING.
- FURNISH AND INSTALL NO. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD NO. 706.
- FURNISH AND INSTALL DOUBLE STACKED NO. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD NO. 707.
- FURNISH AND INSTALL TYPE 100 PULL BOX PER DETAIL 2 ON SHEET TS-17.
- CONNECT LOOP WIRE TO PULL BOX PER CCAUSD No. 827, USING (2)-2" PVC CONDUITS.
- FURNISH AND INSTALL OPTICOM DETECTOR (WITH REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- FURNISH AND INSTALL OPTICOM DETECTOR (WITH REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02). FURNISH AND INSTALL "GLOBAL TRAFFIC TECHNOLOGIES" GPS EMERGENCY VEHICLE PREEMPTION SYSTEM PER COUNTY REQUIREMENTS.
- FURNISH AND INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN PER CCAUSD No. 818.S1 (SHEETS 1-5).
- FURNISH AND INSTALL SIGN ON MAST ARM (TYPE AS NOTED) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
- FURNISH AND INSTALL 6"x30" PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02). LOOPS SHALL BE PLACED 2' BEYOND STOP BAR.
- FURNISH AND INSTALL (6) 6"x6" LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02). LOOPS SHALL BE PLACED 2' BEYOND STOP BAR & SPACED WITH 6' CLEAR BETWEEN LOOPS.
- FURNISH AND INSTALL NEW I-VIEW CCTV CAMERA SYSTEM IN ACCORDANCE WITH UNIFORM STANDARD SPECIFICATION No. 687 AND CCAUSD No. 766.
- FURNISH AND INSTALL 10' OCTC EXTENSION POLE WITH CCTV CABLE FROM CCTV CAMERA (ON TOP OF EXTENSION) TO TRAFFIC SIGNAL CABINET. EXTENSION POLE SHALL BE PRIMED AND PAINTED. COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.
- FURNISH AND INSTALL VIDEO IMAGE DETECTION, SYSTEM HARDWARE AND REQUIRED WIRING FOR FAST REQUIRED VEHICULAR COUNTERS. CONTRACTOR SHALL FURNISH AND INSTALL NEW EXTENSION POLES PER L-2210 SPECIAL PROVISIONS AND SPECIAL PROVISIONS.
- FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND DRAWING NO. 803 PER L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET PER L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL GPS OPTICOM RECEIVER ON TRAFFIC SIGNAL POLE PER L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL BATTERY BACKUP SYSTEM IN SEPARATE CABINET PER L-2210 SPECIAL PROVISIONS.
- CHIP FOUNDATION 18" MINIMUM BELOW FINISHED GRADE.
- FURNISH AND INSTALL "VANDALISM PLATE" PER DETAIL ON SHEET TS-17 AND L-2210 SPECIAL PROVISIONS.
- RELOCATE EX. METRO DOME CAMERA. CONTRACTOR SHALL FURNISH AND INSTALL ANY REQUIRED HARDWARE AND WIRING TO RECONNECT AFTER RELOCATION. CONTRACTOR SHALL REPLACE IN KIND IF EX. EQUIPMENT IS DAMAGED OR IS NOT OPERATIONAL.
- FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
- FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.
- INSTALL FAST CCTV CAMERA SYSTEM ON NEW POLE. FAST CCTV CAMERA SYSTEM SHALL INCLUDE CAMERA ASSEMBLY AND RISER PER CCAUSD STANDARD DRAWING 766 AND CCUSP SECTION 687; LAYER 2 FIELD HARDENED ETHERNET SWITCH PER CCUSP SECTION 684; VIDEO ENCODER PER CCUSP 685; AND ALL CABLES MOUNTINGS AND CONNECTORS.

TRAFFIC SIGNAL PLAN

REFER TO SHEET TS-13 FOR TRAFFIC SIGNAL PLAN

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 95W6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 = 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NOTE: Contractor shall contact Clark County Traffic Operations directly at 455-6000 to schedule County Staff to locate underground streetlighting and signal facilities in the project area. A MINIMUM of 48 hours notice is required prior to location. Hours of operation: 6:30 am - 3:00pm, Monday through Friday excluding Holidays.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS
ACCEPTED
 BY: _____
 Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state, county or federal law, specifications, or The Manual on Uniform Traffic Control Devices.

Call before you Dig
 Avoid calling underground utility lines. It's costly.
 Call before you Dig
 Call 811
 Call before you Dig
 Call 1-800-227-2600
 Call before you Dig
 Call 1-800-227-2929

Kimley-Horn
 © 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

KIMLEY-HORN ENGINEERS
 THOMAS ACKERT
 Exp. 12/31/22
 CIVIL
 LICENSE NO. 18592

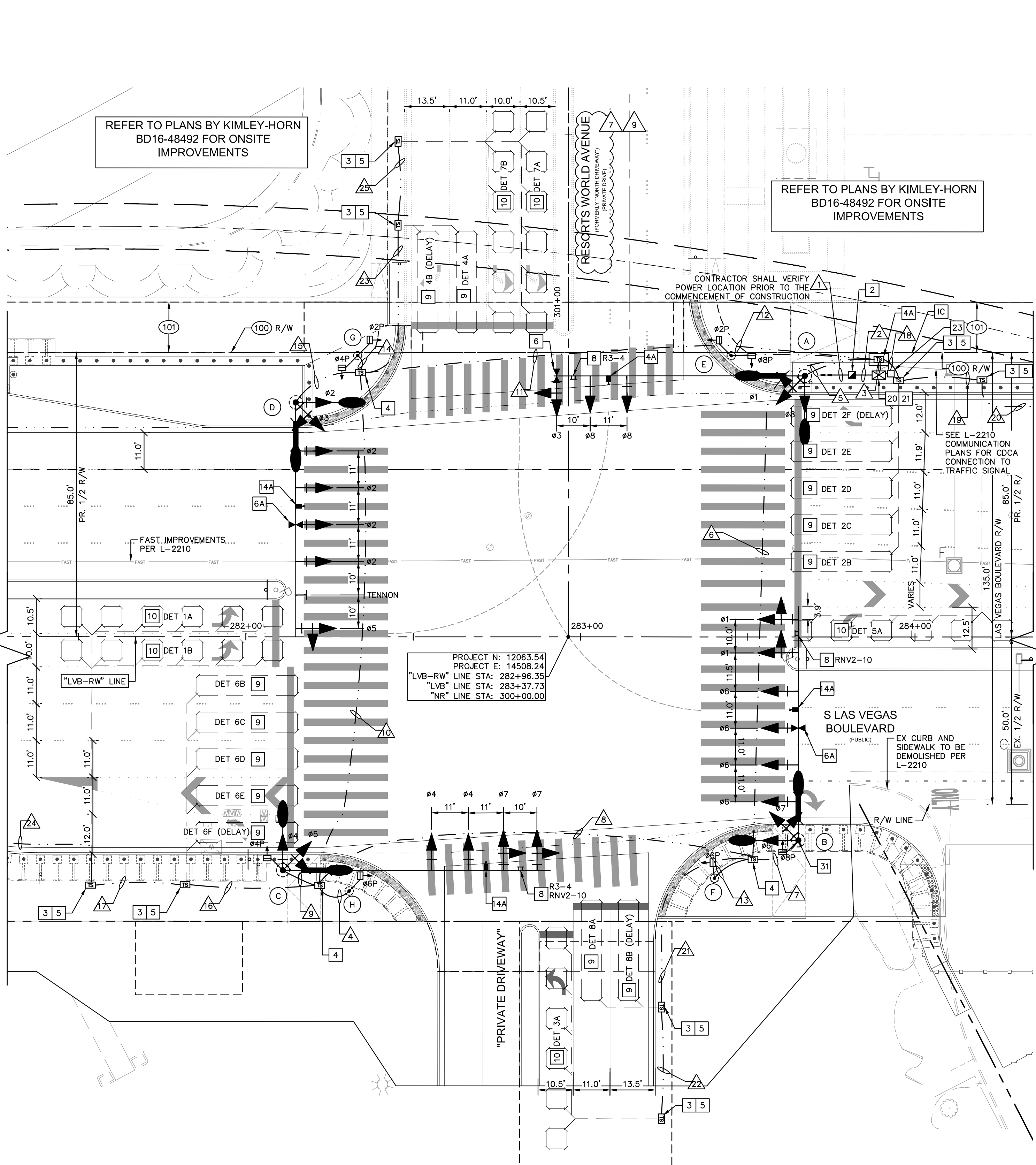
KHA PROJECT 092755002
 DATE 10/23/2019
 SCALE AS SHOWN
 DESIGNED BY TEA
 DRAWN BY SIM
 CHECKED BY RAM
 ISSUED FOR CONSTRUCTION

SIGNAL SCHEDULES
OFFSITE IMPROVEMENT PLANS (L-2210)
LAS VEGAS BLVD - CONVENTION CENTER
 PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT PLANS (L-2210)
 SHEET NUMBER
TS-14

SHEET 317 OF 345
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 DATE BY

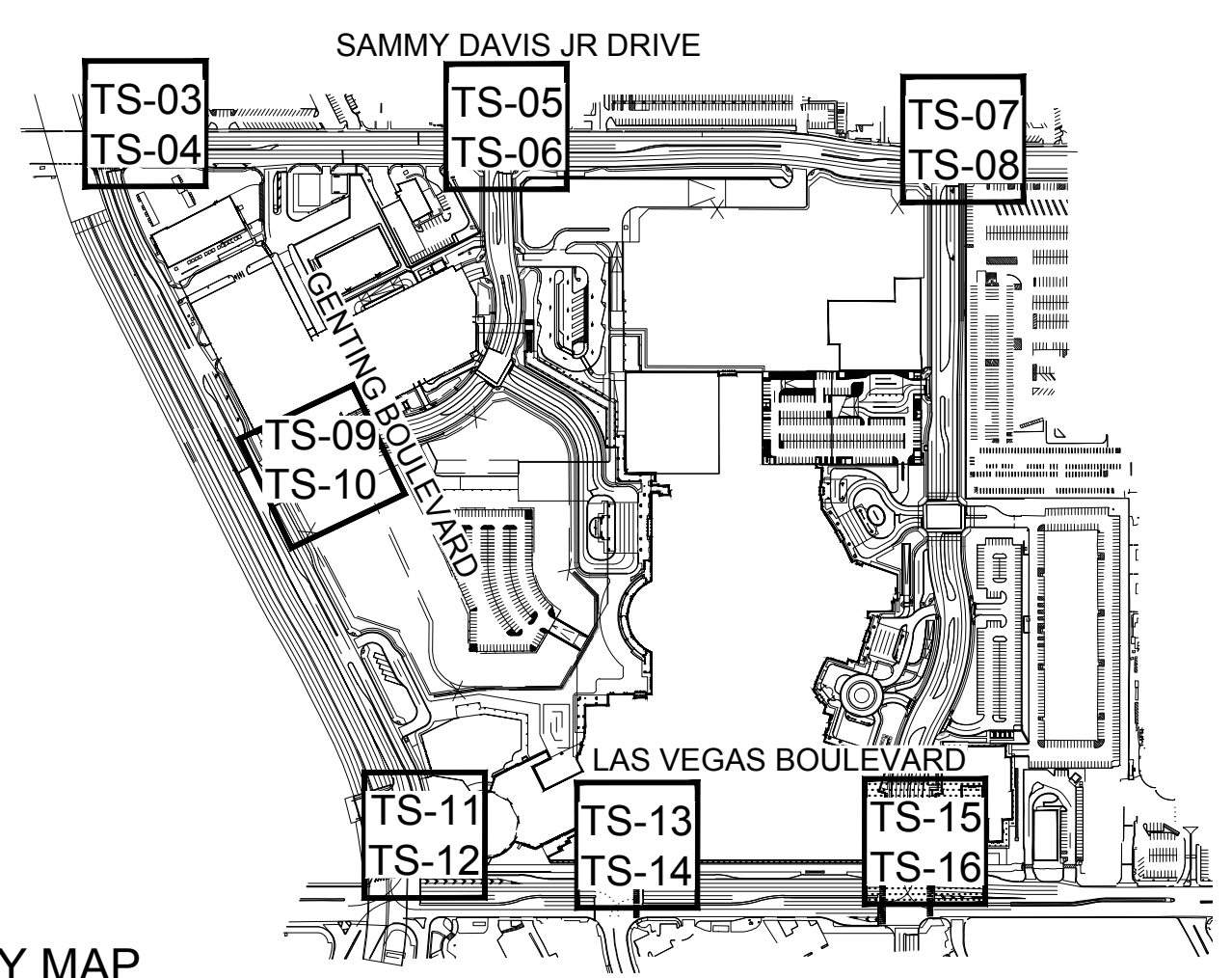
Plotted By: Leo-Sugihara, Kallie - Sheet Set: Vna - Layout: TS-15 - K:\AV-Civil\092755002-Reports World LV P11\CAD\PlanSheets\Bid Alternates\092755002-15.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



REFER TO PLANS BY KIMLEY-HORN
BD16-48492 FOR ONSITE
IMPROVEMENTS

REFER TO PLANS BY KIMLEY-HORN
BD16-48492 FOR ONSITE
IMPROVEMENTS

PROJECT NO: 12063.54
PROJECT E: 14508.24
"LVB-RW" LINE STA: 282+96.35
"LVB" LINE STA: 283+37.73
"NR" LINE STA: 300+00.00



KEY MAP

CONSTRUCTION NOTES

- 2 FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ONTO CONCRETE FOUNDATION PER CCAUSD NO. 730, PROVIDE (1) EACH 60 AMP, 120 VOLT, 1P CONTROLLER (TRAFFIC SIGNAL) CXT BKR AND (1) EACH, 40 AMP, 120 VOLT, 1P INTERSECTION LIGHTING.
- 3 FURNISH AND INSTALL No. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 706.
- 4 FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
- 4A FURNISH AND INSTALL TYPE 100 PULL BOX PER DETAIL 2 ON SHEET TS-17.
- 5 CONNECT LOOP WIRE TO PULL BOX PER CCAUSD No. 827, USING (2)-2" PVC CONDUITS.
- 6 FURNISH AND INSTALL OPTICOM DETECTOR (WITH REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- 6A FURNISH AND INSTALL OPTICOM DETECTOR (WITH REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02). FURNISH & INSTALL "GLOBAL TRAFFIC TECHNOLOGIES" GPS EMERGENCY VEHICLE PREEMPTION SYSTEM PER COUNTY REQUIREMENTS.
- 8 FURNISH AND INSTALL SIGN ON MAST ARM (TYPE AS NOTED) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
- 9 FURNISH AND INSTALL (6) 6'x30" PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02). LOOPS SHALL BE PLACED 2' BEYOND STOP BAR.
- 10 FURNISH AND INSTALL (6) 6'x6" LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02). LOOPS SHALL BE PLACED 2' BEYOND STOP BAR & SPACED WITH 6' CLEAR BETWEEN LOOPS.
- 11 FURNISH AND INSTALL 6'x6" ADVANCED LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- 11A FURNISH AND INSTALL VIDEO IMAGE DETECTION, SYSTEM HARDWARE AND REQUIRED WIRING FOR FAST REQUIRED VEHICULAR COUNTERS. CONTRACTOR SHALL FURNISH AND INSTALL NEW EXTENSION POLES PER L-2210 SPECIFICATIONS AND SPECIAL PROVISIONS.
- 20 FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND DRAWING NO. 803 PER L-2210 SPECIAL PROVISIONS.
- 21 FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET PER L-2210 SPECIAL PROVISIONS.
- 23 FURNISH AND INSTALL BATTERY BACKUP SYSTEM IN SEPARATE CABINET PER L-2210 SPECIAL PROVISIONS.
- 31 INSTALL FAST CCTV CAMERA SYSTEM ON NEW POLE. FAST CCTV CAMERA SYSTEM SHALL INCLUDE CAMERA ASSEMBLY AND RISER PER CCAUSD STANDARD DRAWING 706 AND CCUSP SECTION 687. LAYER 2 FIELD HARDENED ETHERNET SWITCH PER CCUSP SECTION 684; VIDEO ENCODER PER CCUSP 685; AND ALL CABLES MOUNTINGS AND CONNECTORS.
- C INTERCONNECT IMPROVEMENTS, SEE SHEETS (SLO1-SLO11) FOR DESIGN AND DETAILS.

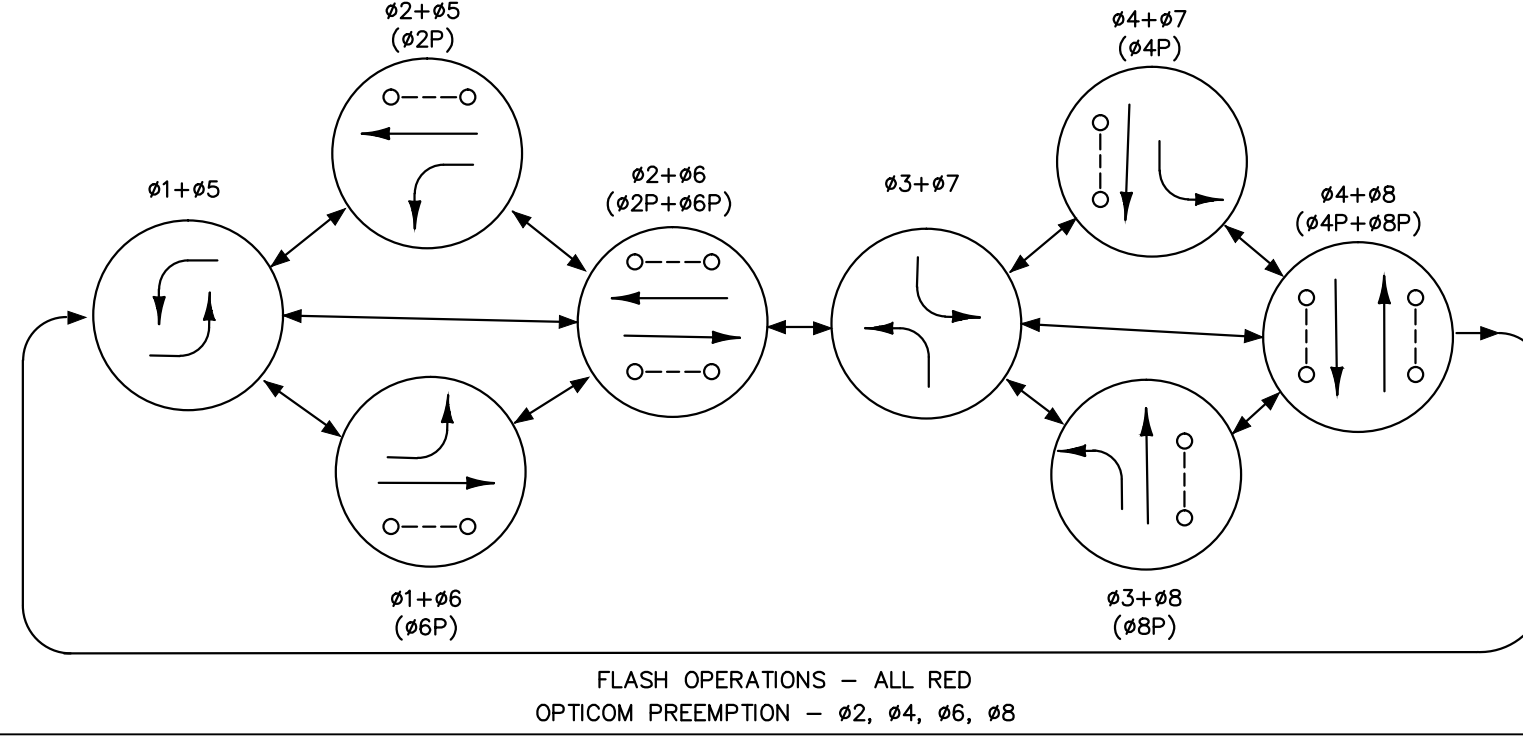
RIGHT-OF-WAY AND EASEMENTS

- 100 EX. R/W
- 101 PR. R/W PER FINAL MAP #NFM 19-500109

CONDUIT, WIRE & POLE SCHEDULE

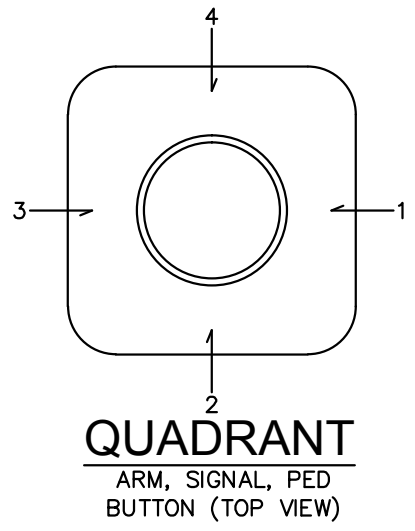
REFER TO SHEET TS-16 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET

PROPOSED PHASE DIAGRAM



SIGN SCHEDULE

RNV2-10 36"x30"	R3-4 36"x36"



BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "7C11 95W6"
RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
ELEVATION = 637.459 METERS
CONVERSION TO 2018 BENCHMARK:
637.459 - 0.073m = 637.386 METERS
2091.40 FEET
2091.40 - 0.24 = 2091.16 FEET
CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NOTE: Contractor shall contact Clark County Traffic Operations directly at 455-6000 to schedule County Staff to locate underground streetlighting and signal facilities in the project area. A MINIMUM of 48 hours notice is required prior to locating. Hours of operation: 6:30 am - 3:00pm, Monday through Friday excluding Holidays.

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

BY: _____
Acceptance of these plans for filing shall not be construed to be a permit for or an approval of any violation of any of the provisions of the state, county or federal law, specifications, or The Manual on Uniform Traffic Control Devices.

GRAPHIC SCALE IN FEET
0 10 20 40
SCALE: 1" = 20'

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

Call before you Under-Ground
1-702-432-5300

Call before you Overhead
1-800-227-2600 1-702-227-2929

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA
 SHEET NUMBER **TS-15**
 SHEET 318 OF 345
 ISSUED FOR CONSTRUCTION
 12/30/2020
 THOMAS ACKERT
 CIVIL ENGINEER
 Exp. 12/31/22
 LICENSE NO. 18592
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM
 © 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

Plotted By: Leo-Sugrara, Kallie - Sheet Set: MHA - Layout: TS-16 - K:\AV-Civil\092755002-Reports World LV Ph1\CAD\PlanSheets\Bid Alternates\092755002-TS16.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

POLE SCHEDULE		POLE		SIGNALS				PEDESTRIAN		RED LIGHT INDICATORS		EMERGENCY VEHICLE DETECTOR		REMARKS			
POLE	LOCATION STATION & OFFSET (RESORTS WORLD DR) TOP OF FOUNDATION ELEV.	TYPE	FOUND	MAST ARM		LUMINAIRE*		VEHICLE	PEDESTRIAN	ARROW	QUAD	TYPE	PHASE		QUAD		
		HEIGHT		QUAD	LENGTH	QUAD	LENGTH	TYPE	QUAD	QUAD	QUAD	QUAD	QUAD	QUAD			
A	STA: 283+67 OFF: 78.0' LT ELEV: 2063.0	XX-B 30'	M	3	70'	2	15'	(1) M-2L (2) M-2 (1) B-2T	MA MA 1	-	-	-	-	-	TWO WAY	6 7 8 12 13 14A 25 28 29	
B	STA: 283+65 OFF: 60.8' RT ELEV: 2063.1	XX-B 30'	M	4	70'	3	15'	(2) M-2L (4) M-2 (1) B-2T	MA MA 2	W-OT	2	RT	1	RED BLUE #6 #7	1	TWO WAY	6A 7 8 14A 21 25 28 29 31
C	STA: 282+11 OFF: 69.0' RT ELEV: 2063.9	XX-B 30'	M	1	60'	1	15'	(2) M-2L (2) M-2 (1) B-2T	MA MA 3	W-3T	2	LT RT	3	2	-	-	7 8 14A 25 28 29
D	STA: 282+15 OFF: 70.0' LT ELEV: 2064.1	XX-B 30'	M	2	70'	1	15'	(1) M-2L (1) TENON (4) M-2 (1) B-2T	MA MA MA MA 4	W-OT	4	LT	1	RED BLUE #2 #3	3	TWO WAY	6A 7 14A 21 25 28 31
E	STA: 283+45 OFF: 84.0' LT ELEV: 2063.0	I-A 10'	C	-	-	-	-	-	-	W-2T	POST TOP	LT RT	1	4	-	-	-
F	STA: 283+40 OFF: 72.1' RT ELEV: 2063.0	I-A 10'	C	-	-	-	-	-	-	W-1T	POST TOP	LT RT	2	-	-	-	-
G	STA: 282+33 OFF: 84.0' LT ELEV: 2064.0	I-A 10'	C	-	-	-	-	-	-	W-1T	POST TOP	RT	4	-	-	-	-
H	STA: 282+31 OFF: 76.0' RT ELEV: 2063.5	I-A 10'	C	-	-	-	-	-	-	W-1T	POST TOP	LT	4	-	-	-	-

NOTE: PROPOSED LUMINAIRES SHALL CONFORM WITH CURRENT (AS OF DATE OF INSPECTION) CLARK COUNTY STANDARDS AND SPECIFICATIONS ALL TRAFFIC SIGNAL HEADS SHALL BE INSTALLED WITH A REFLECTIVE PERIMETER STRIP (PER CLARK COUNTY REQUIREMENTS)

STREET NAME SIGN SCHEDULE						
POLE	DIRECTION	STREET NAME	SUFFIX	BLOCK NO.	REMARKS	
A	S	LAS VEGAS	BOULEVARD	2900	7	
B	W	RESORTS WORLD	AVENUE	100	7	
C	S	LAS VEGAS	BOULEVARD	2950	7	
D	E	PRIVATE	DRIVE	-	7	

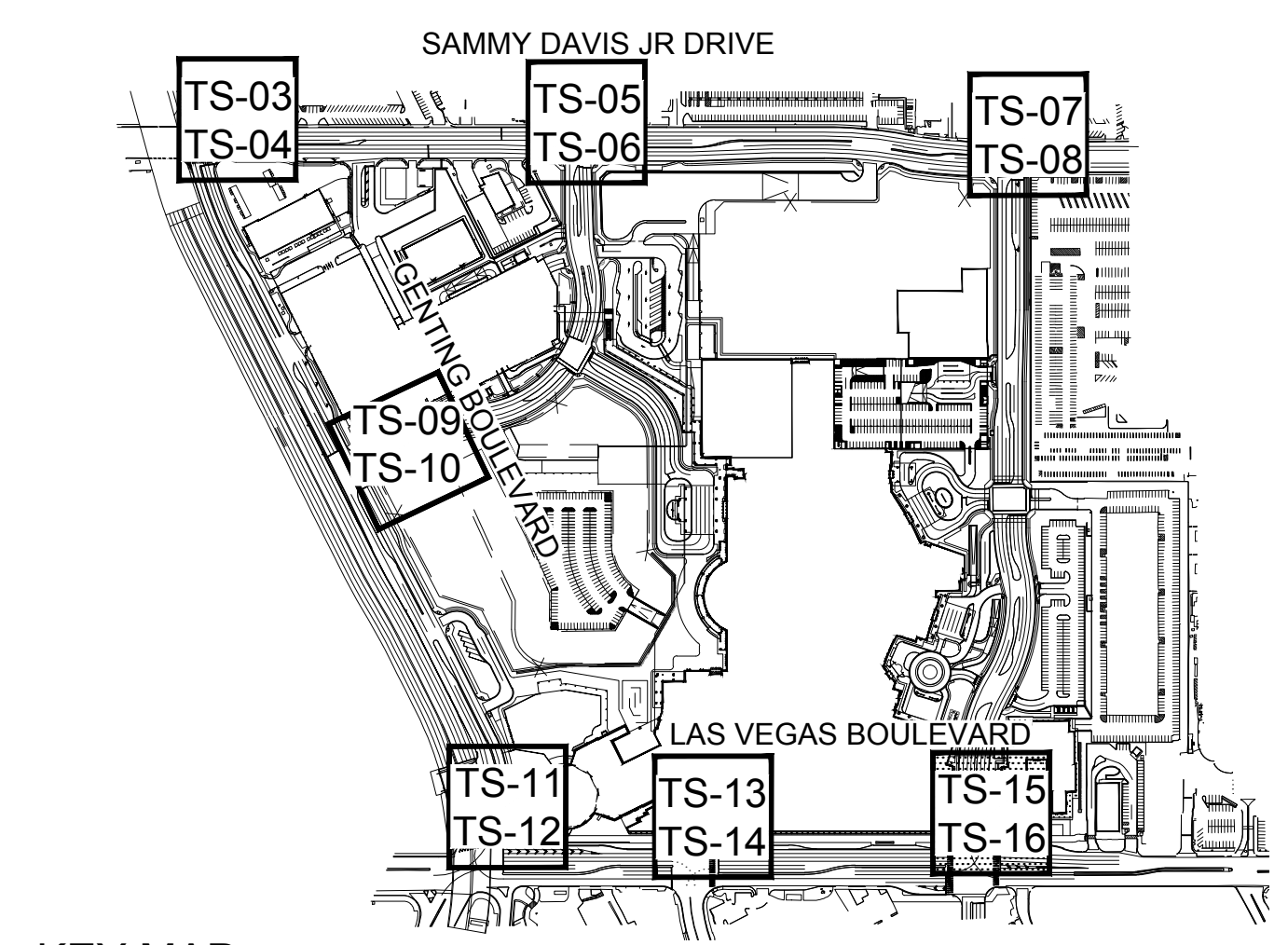
TRAFFIC SIGNAL RELOCATION GENERAL NOTES

- TEST THE FUNCTIONALITY OF THE SURVEILLANCE CAMERA UPON INSTALLATION THROUGH DIRECT CONNECTION OF THE FIELD WIRING AT THE CONTROLLER CABINET. NOTIFY THE ENGINEER AND DOCUMENT ALL TESTS. THE ENGINEER RESERVES THE RIGHT TO WITNESS ALL TESTS.
- UPON COMPLETION OF THE FUNCTIONALITY TEST, INSTALL VIDEO AND DATA CONNECTIONS TO THE LOCAL COMMUNICATIONS INFRASTRUCTURE IN ACCORDANCE WITH F.A.S.T. REQUIREMENTS AT (702) 432-5300.
- SURVEILLANCE CAMERA SHALL BE RELOCATED TO F.A.S.T. SATISFACTION.
- A FAST REPRESENTATIVE SHALL BE ON SITE WHEN THIS WORK IS COMPLETED. THE CONTRACTOR SHALL CONTACT FAST AT (702) 432-5300 A MINIMUM OF 48 HOURS PRIOR TO THE DATE WHEN THE EXISTING POLE IS SCHEDULED TO BE REMOVED TO COORDINATE THE TIME WHEN A FAST REPRESENTATIVE CAN BE PRESENT.

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	CONDUIT																								
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
(3) No. 2/0 AWG	SERVICE PEDESTAL	SERVICE PEDESTAL	●																								
(3) No. 4 CONDUCTOR THW-2 OR XHHW-2 (1) No. 8 GROUND (GREEN)	SERVICE PEDESTAL	CONTROLLER		●																							
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE, M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE A			●																						
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE, M-138 (1) VIDEO DETECTION CABLE (1) CCTV CABLE	CONTROLLER	POLE B				●																					
(1) 25 COND. IMSA 20-1 No. 14 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE C					●																				
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE, M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE D						●																			
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE E							●																		
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE F								●																	
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE G									●																
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE H										●															
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE A																									
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE B																									
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE C																									
(3) No. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE D																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#1 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#2 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#2 ADVANCE LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#3 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#4 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#5 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#6 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#6 ADVANCE LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#7 LOOPS																									
LOOP LEAD-IN CABLE IMSA 50-2 #12AWG	CONTROLLER	#8 LOOPS																									
(1) No. 8 (GREEN)	CONTROLLER TO POLES		1	2	6	1	2	4	2	4	2	4	2	1	1	4	1	1	1	1	1	1	1	1	1	1	1
PULL ROPE	(NUMBER AS SHOWN)		1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)
 * CONTRACTOR SHALL COORDINATE WITH NV ENERGY TO CONNECT PROPOSED SERVICE PEDESTAL TO SERVICE POINT



KEY MAP

CONSTRUCTION NOTES

- FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ONTO CONCRETE FOUNDATION PER CCAUSD No. 730. PROVIDE (1) EACH 60 AMP, 120 VOLT, 1P CONTROLLER (TRAFFIC SIGNAL) OXT BKR AND (1) EACH, 40 AMP, 120 VOLT, 1P INTERSECTION LIGHTING.
- FURNISH AND INSTALL No. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 706.
- FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
- FURNISH AND INSTALL TYPE 100 PULL BOX PER DETAIL 2 ON SHEET TS-17.
- CONNECT LOOP WIRE TO PULL BOX PER CCAUSD No. 827, USING (2)-2" PVC CONDUITS.
- FURNISH AND INSTALL OPTICOM DETECTOR (WITH REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- FURNISH AND INSTALL OPTICOM DETECTOR (WITH REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02). FURNISH & INSTALL "GLOBAL TRAFFIC TECHNOLOGIES" GPS EMERGENCY VEHICLE PREEMPTION SYSTEM PER COUNTY REQUIREMENTS.
- FURNISH AND INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN PER CCAUSD No. 818.51 (SHEETS 1-5).
- FURNISH AND INSTALL SIGN ON MAST ARM (TYPE AS NOTED) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
- FURNISH AND INSTALL 6"x30" PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02). LOOPS SHALL BE PLACED 2' BEYOND STOP BAR.
- FURNISH AND INSTALL (6) 6"x6" LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02). LOOPS SHALL BE PLACED 2' BEYOND STOP BAR & SPACED WITH 6' CLEAR BETWEEN LOOPS.
- FURNISH AND INSTALL 6"x6" ADVANCED LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- FURNISH AND INSTALL NEW I-VIEW CCTV CAMERA SYSTEM IN ACCORDANCE WITH UNIFORM STANDARD SPECIFICATION No. 687 AND COUNCIL No. 766.
- FURNISH AND INSTALL 10' OCTC EXTENSION POLE WITH CCTV CABLE FROM CCTV CAMERA (ON TOP OF EXTENSION) TO TRAFFIC SIGNAL CABINET. EXTENSION POLE SHALL BE PRIMED AND PAINTED. COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.
- FURNISH AND INSTALL VIDEO IMAGE DETECTION. SYSTEM HARDWARE AND REQUIRED WIRING FOR FAST REQUIRED VEHICULAR COUNTERS. CONTRACTOR SHALL FURNISH AND INSTALL NEW EXTENSION POLES PER L-2210 SPECIFICATIONS AND SPECIAL PROVISIONS.
- FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND DRAWING NO. 803 PER L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET PER L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL BATTERY BACKUP SYSTEM IN SEPARATE CABINET PER L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL "VANDALISM PLATE" PER DETAIL ON SHEET TS-17 AND L-2210 SPECIAL PROVISIONS.
- FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
- FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.
- INSTALL FAST CCTV CAMERA SYSTEM ON NEW POLE. FAST CCTV CAMERA SYSTEM SHALL INCLUDE CAMERA ASSEMBLY AND RISER PER CCAUSD STANDARD DRAWING 766 AND CCUSP SECTION 687; LAYER 2 FIELD HARDENED ETHERNET SWITCH PER CCUSP SECTION 684; VIDEO ENCODER PER CCUSP 685; AND ALL CABLES MOUNTINGS AND CONNECTORS.
- INTERCONNECT IMPROVEMENTS, SEE SHEETS (SL01-SL011) FOR DESIGN AND DETAILS.

TRAFFIC SIGNAL PLAN

REFER TO SHEET TS-15 FOR TRAFFIC SIGNAL PLAN

NOTE:
SEE SHEET TS-17 FOR ILLUMINATED SIGN LAYOUTS.

NOTE:
ALL TRAFFIC SIGNAL IMPROVEMENTS SHALL BE CONSTRUCTED PER COUNTY STANDARDS AND L-2210 SPECIAL PROVISIONS.

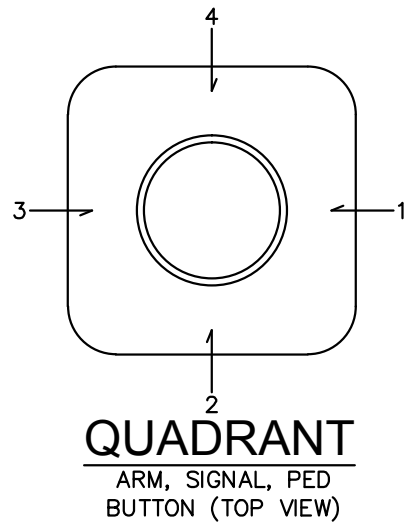
BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 9SW6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS CONVERSION TO 2018 BENCHMARK: 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET

BASIS OF BEARING

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)
 NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

NOTE: Contractor shall contact Clark County Traffic Operations directly at 455-6000 to schedule County Staff to locate underground streetlighting and signal facilities in the project area. A MINIMUM OF 48 hours notice is required prior to locating. Hours of operation: 6:30 am - 3:00pm, Monday through Friday excluding Holidays.



CLARK COUNTY DEPARTMENT OF PUBLIC WORKS
ACCEPTED

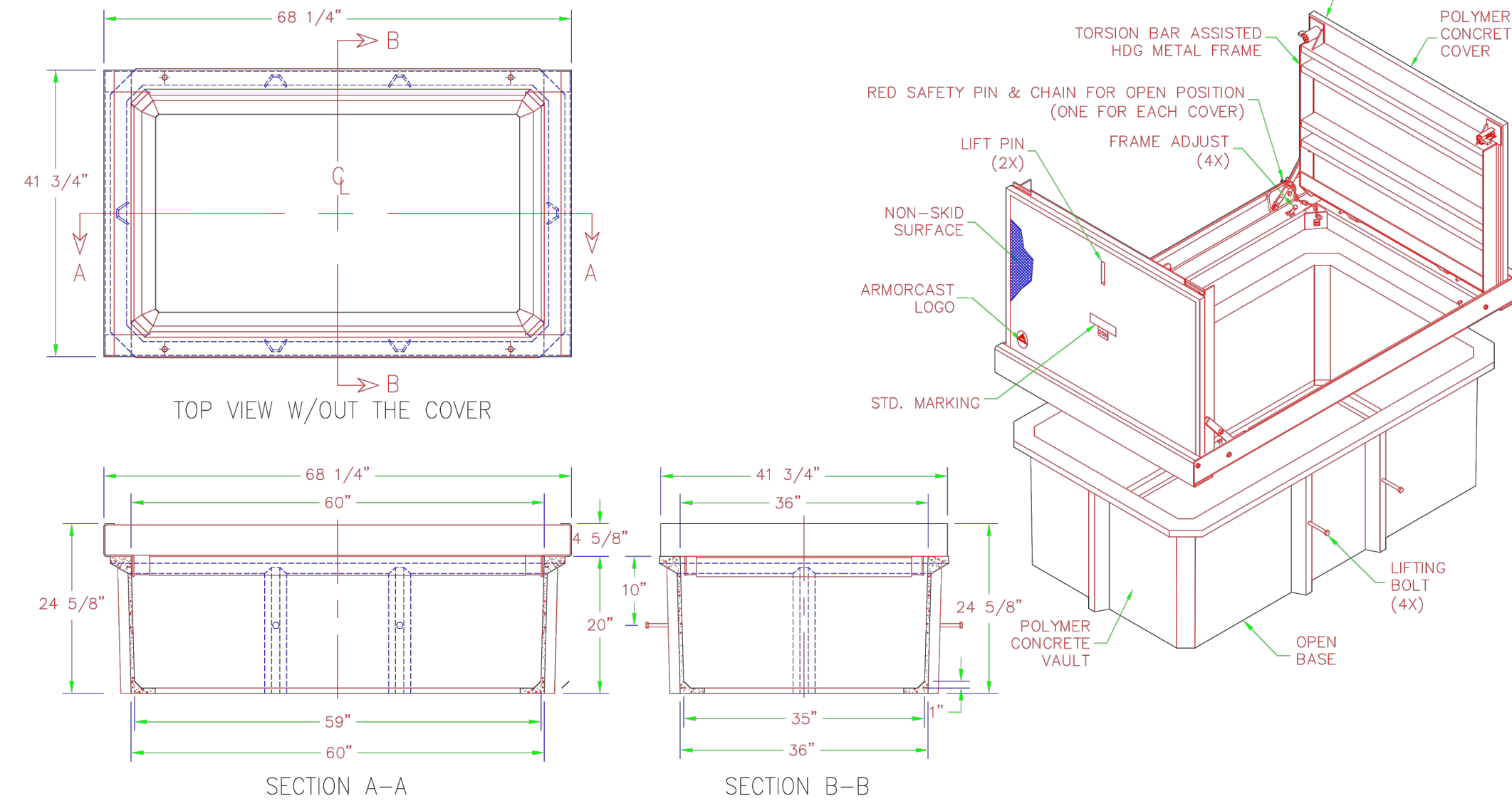
BY: [Signature]

Call before you Dig
 Call before you Under-Ground
 Call before you Overhead

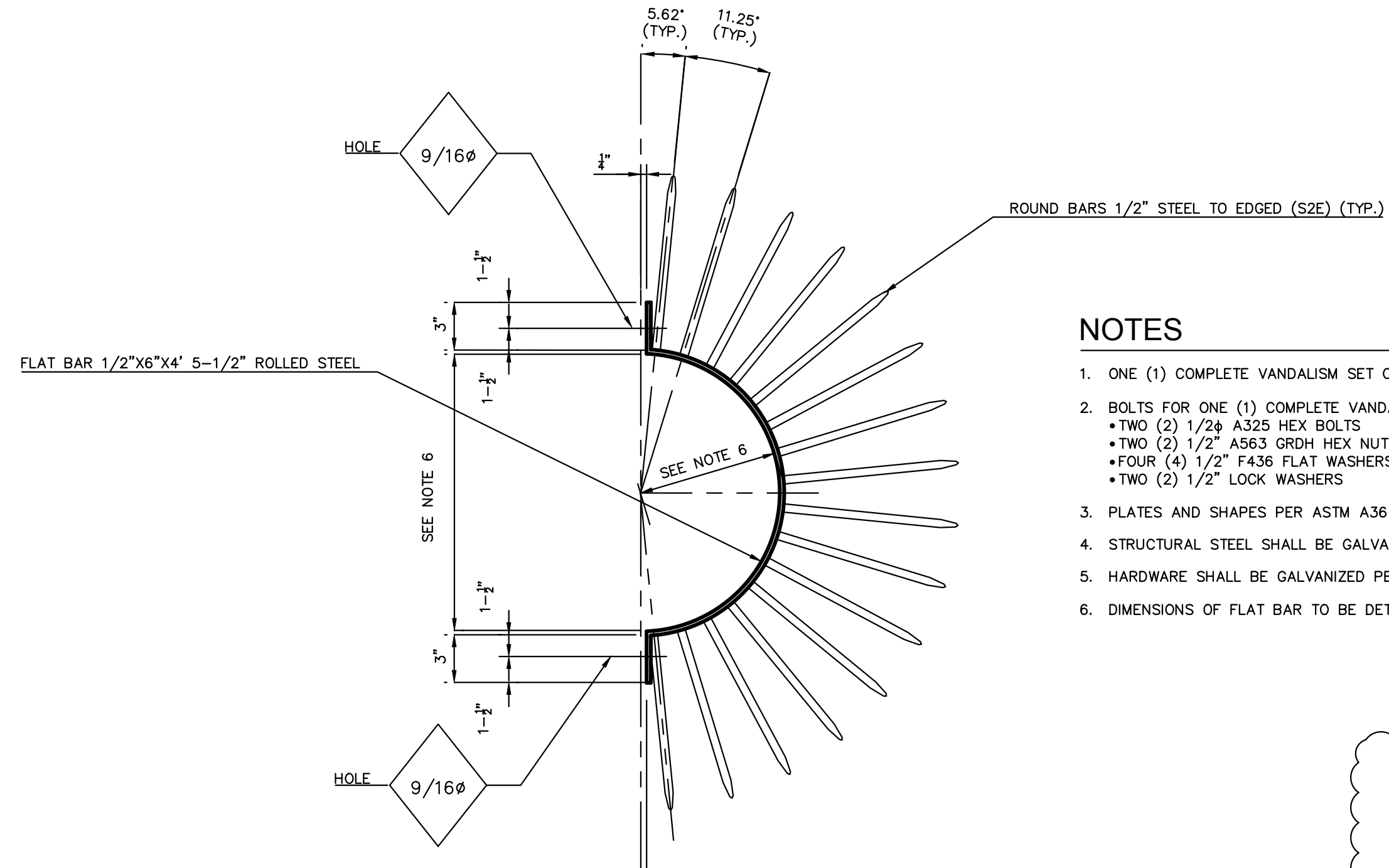
1-702-432-5300
 1-800-227-2600
 1-702-227-2929

KHA PROJECT 092755002
 DATE 10/23/2019
 SCALE AS SHOWN
 DESIGNED BY TEA
 DRAWN BY SIM
 CHECKED BY RAM
 ISSUED FOR CONSTRUCTION
 12/30/2020
 THOMAS ACKERT
 CIVIL ENGINEER
 Exp. 12/31/22
 PROFESSIONAL SEAL NO. 18592
 STATE OF NEVADA
 RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA
 SHEET NUMBER TS-16
 SHEET 319 OF 345
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 HTF #15-44215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE), 19-17163 (TDS UPDATE)

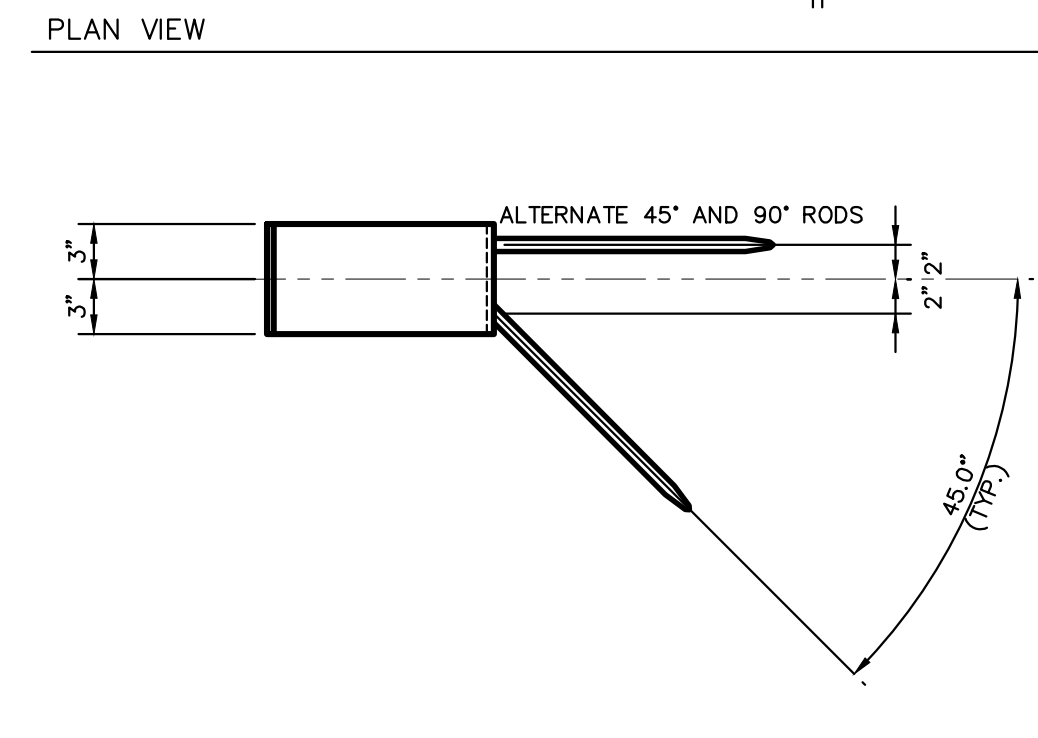
Plotted By: Leo-Sugihara, Kalilee - Sheet Set: KHA - Layout: TS-17 - K:\AV-Civil\092755002-Reports World LV Ph1\CAD\PlanSheets\Bid Alternates\092755002-TS17.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



2 TYPE 100 PULLBOX
DETAIL NTS



- NOTES**
- ONE (1) COMPLETE VANDALISM SET CONSISTS OF TWO (2) VANDALISM PLATES AS SHOWN IN THE DETAIL.
 - BOLTS FOR ONE (1) COMPLETE VANDALISM PLATE SET SHALL INCLUDE:
 - TWO (2) 1/2\" A325 HEX BOLTS
 - TWO (2) 1/2\" A563 GRDH HEX NUTS
 - FOUR (4) 1/2\" F436 FLAT WASHERS
 - TWO (2) 1/2\" LOCK WASHERS
 - PLATES AND SHAPES PER ASTM A36
 - STRUCTURAL STEEL SHALL BE GALVANIZED PER ASTM A123
 - HARDWARE SHALL BE GALVANIZED PER ASTM A153
 - DIMENSIONS OF FLAT BAR TO BE DETERMINED BASED ON THE DIMENSIONS OF THE SIGNAL POLE 6\" BELOW MAST ARM.



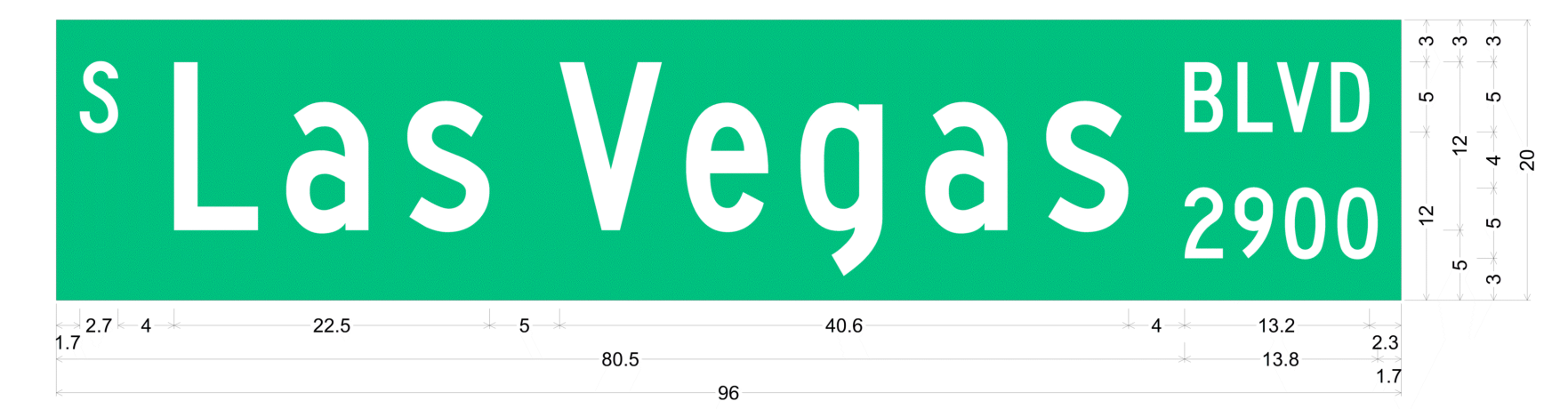
3 "VANDALISM PLATE"
DETAIL NTS



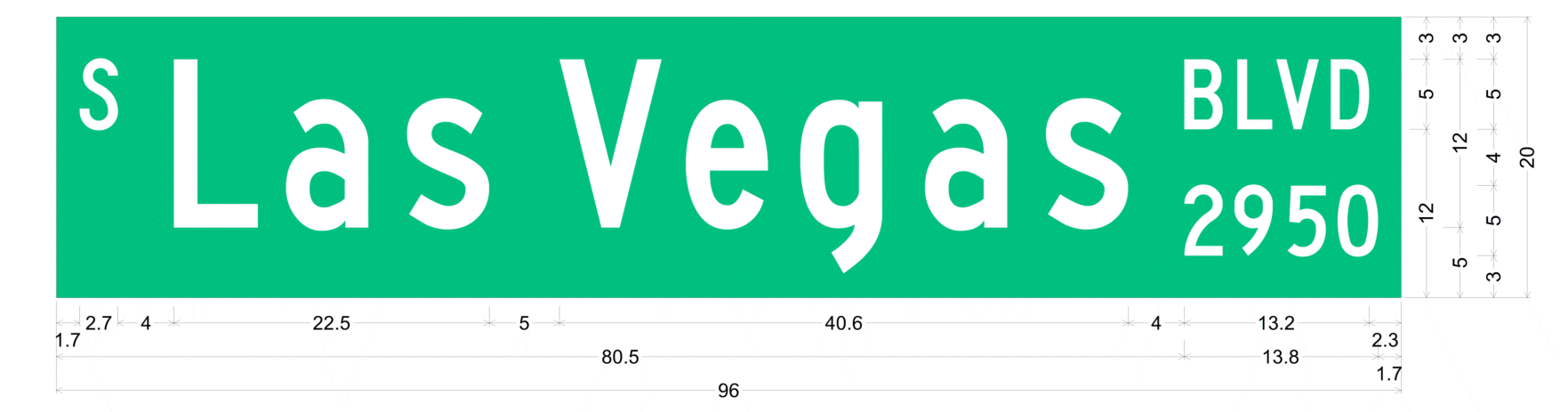
No border, None on, Green;
Standard Arrow Custom 9.0\"/>



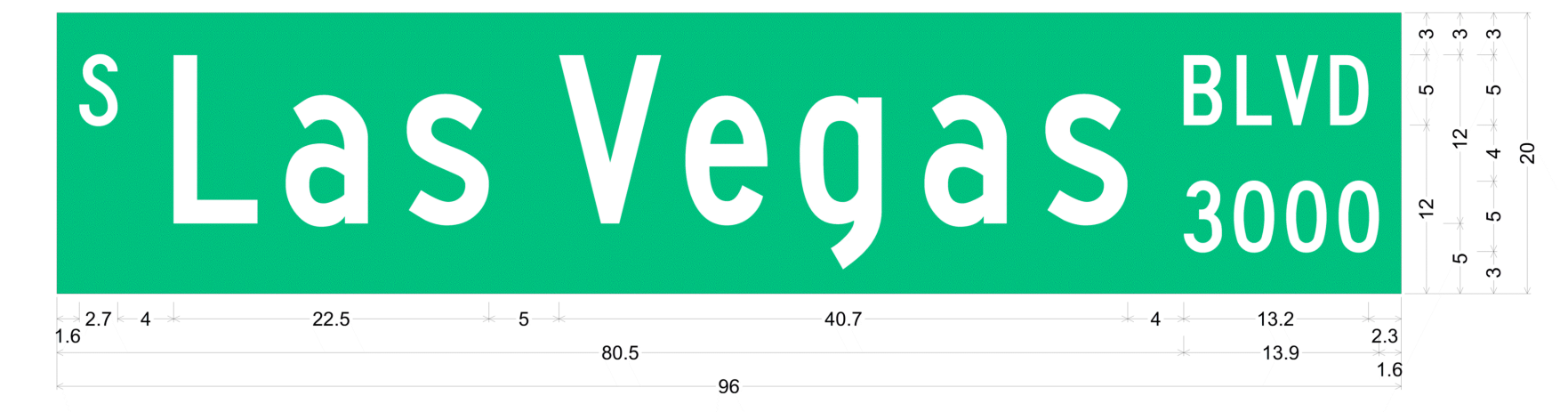
No border, None on, Green;
Standard Arrow Custom 9.0\"/>



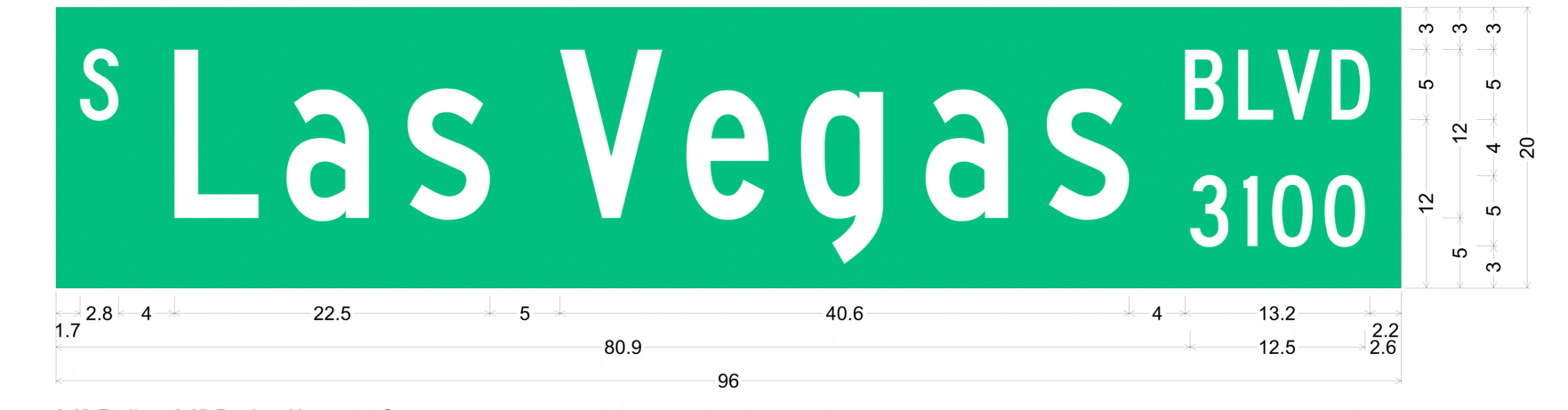
0.0\"/>



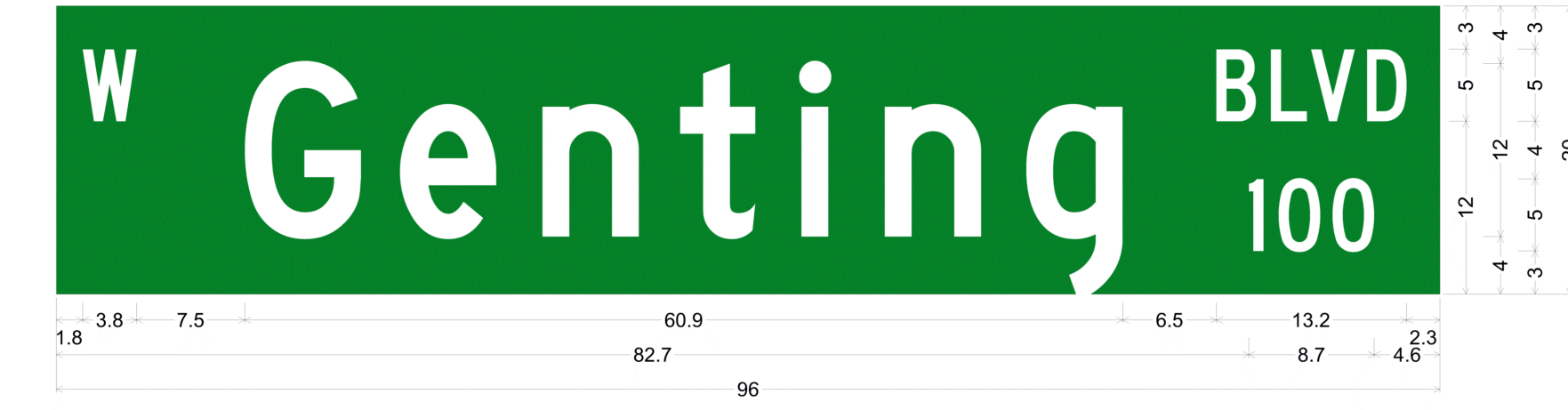
0.0\"/>



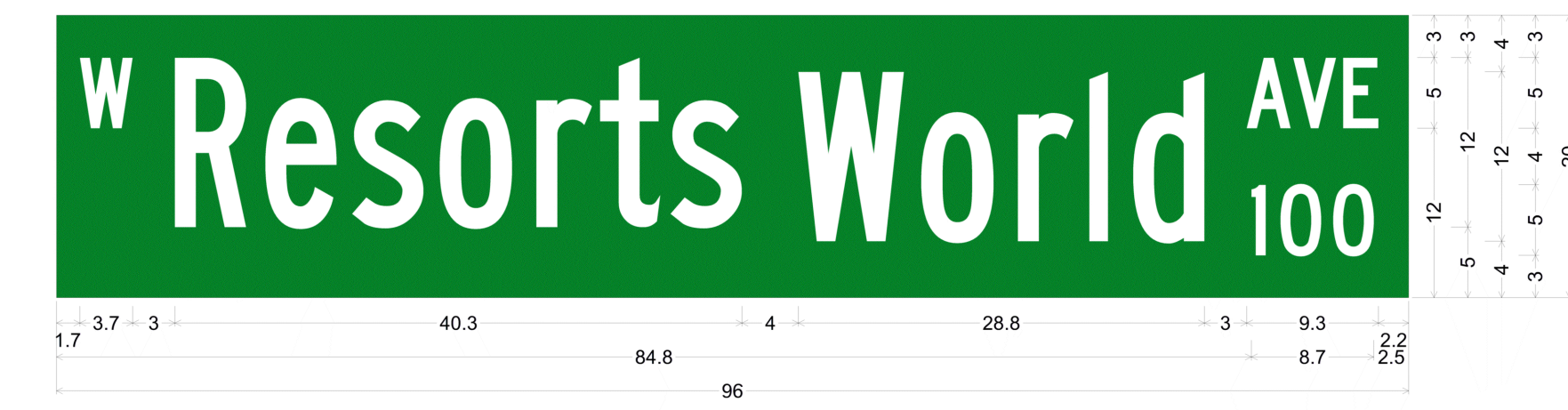
0.0\"/>



0.0\"/>



0.0\"/>



0.0\"/>

Call before you Dig
 Call before you UnderGround
 Call before you Overhead
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

Kimley-Horn
 © 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

PROJECT: 092755002
 DATE: 10/23/2019
 SCALE: AS SHOWN
 DESIGNED BY: TEA
 DRAWN BY: SIM
 CHECKED BY: RAM
 ISSUED FOR CONSTRUCTION: 12/30/2020

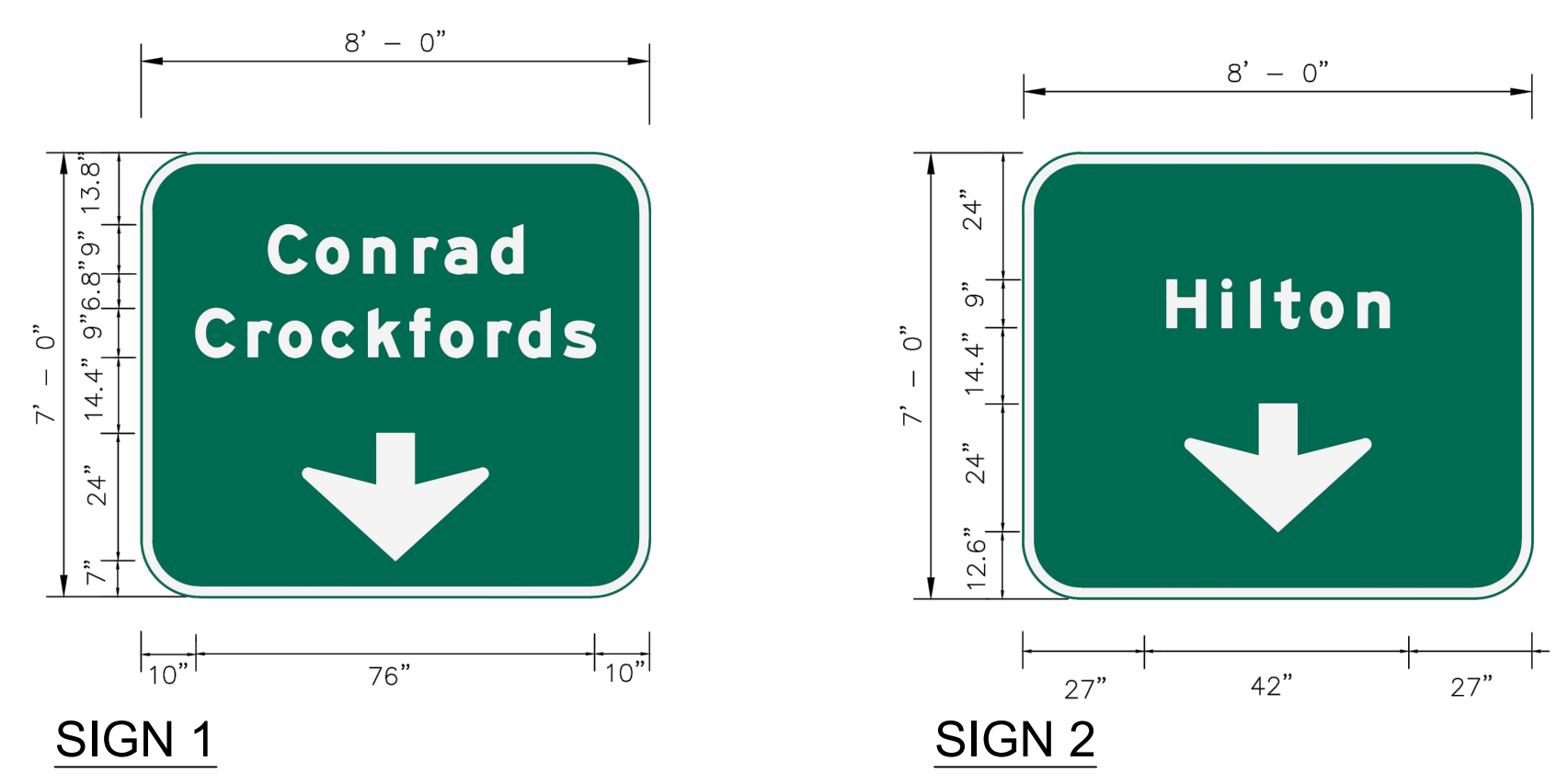
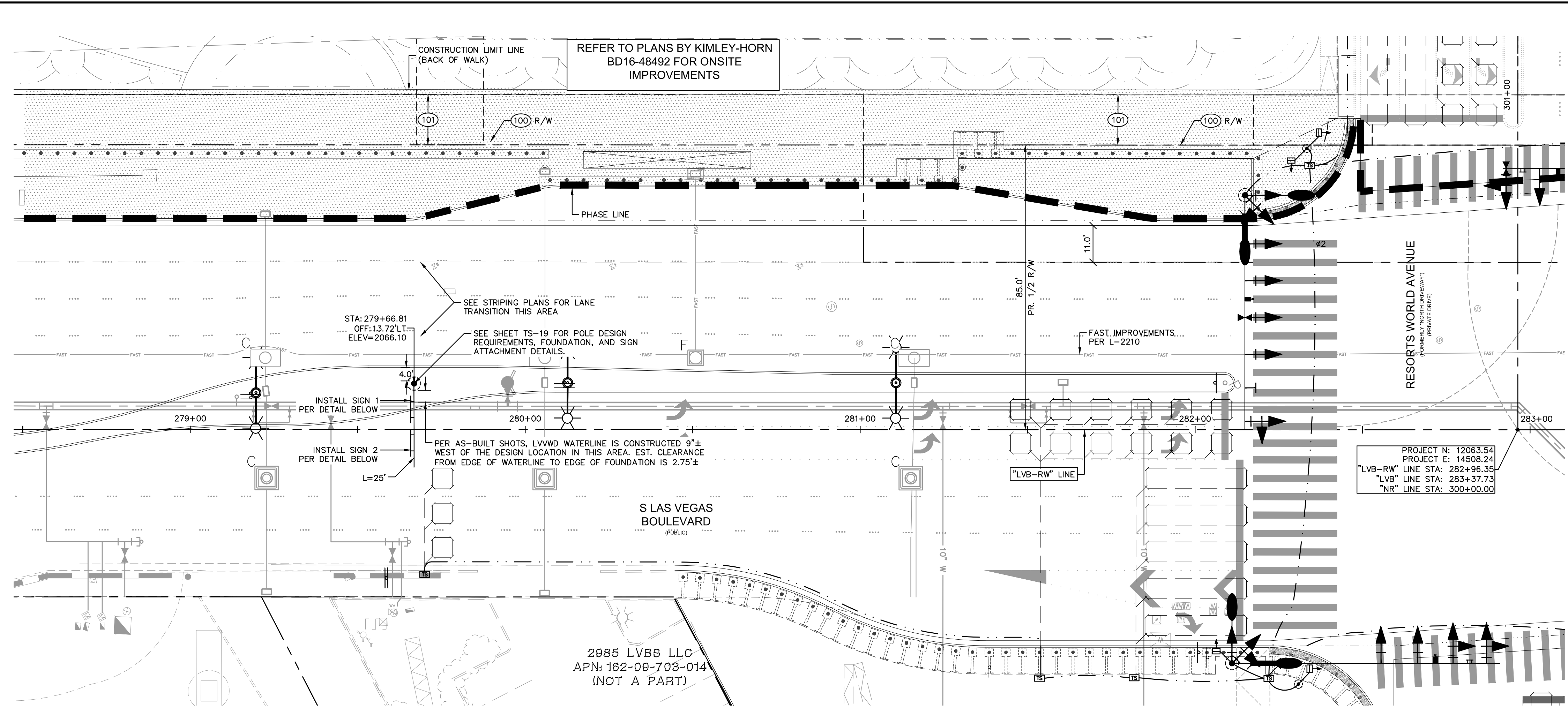
TRAFFIC SIGNAL DETAILS

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA

SHEET NUMBER
TS-17

SHEET 320 OF 345

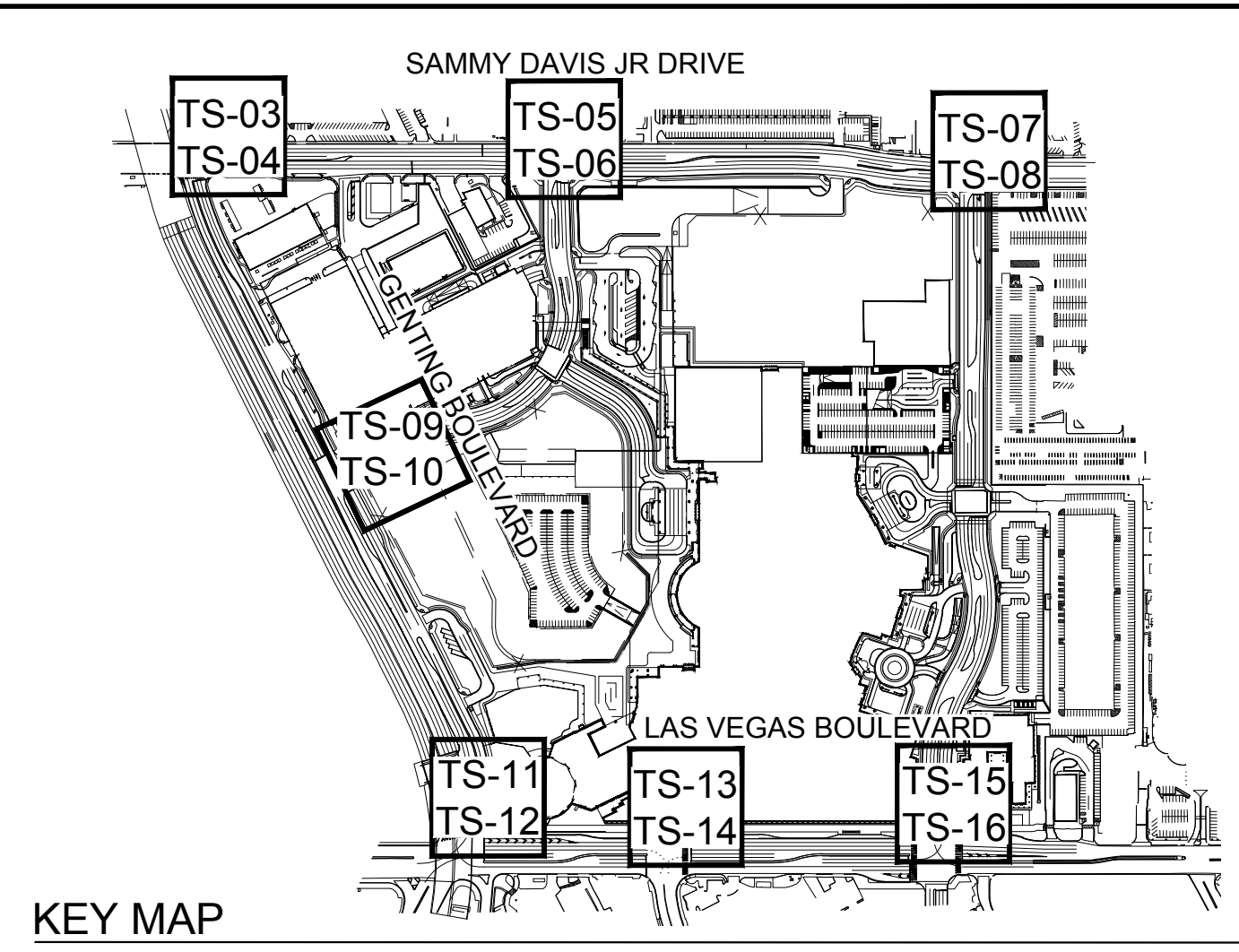
Plotted By: Leo-Sugihara, Kallie - Sheet Set: Kna - Layout: TS-18 - K:\AV-Civil\092755002-Reports World LV P11\CAD\PlanSheets\Bid Alternates\092755002-TS18-Sign.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



ALL LETTERING SHALL BE TYPE "EM" AND HAVE A MINIMUM HEIGHT OF 9". BACKGROUND SHALL MUTCD STANDARD GREEN WITH WHITE LETTERING. THE SIGN SHALL HAVE RETRO-REFLECTIVE SHEETING WHICH MEET AND/OR EXCEED CURRENT MUTCD REQUIREMENTS.

MEDIAN GUIDE SIGNS

NTS



KEY MAP

RIGHT-OF-WAY AND EASEMENTS

- 100' EX. R/W
- 101' PR. R/W PER FINAL MAP #NFM 19-500109

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT No. 136077 FIRST APPROVED DATE:

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
 BENCHMARK No. "7C11 9SWW6"
 RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.
 ELEVATION = 637.459 METERS
 2091.40 FEET
 CONVERSION TO 2018 BENCHMARK:
 637.459 - 0.073m = 637.386 METERS
 2091.40 - 0.24 = 2091.16 FEET
 CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

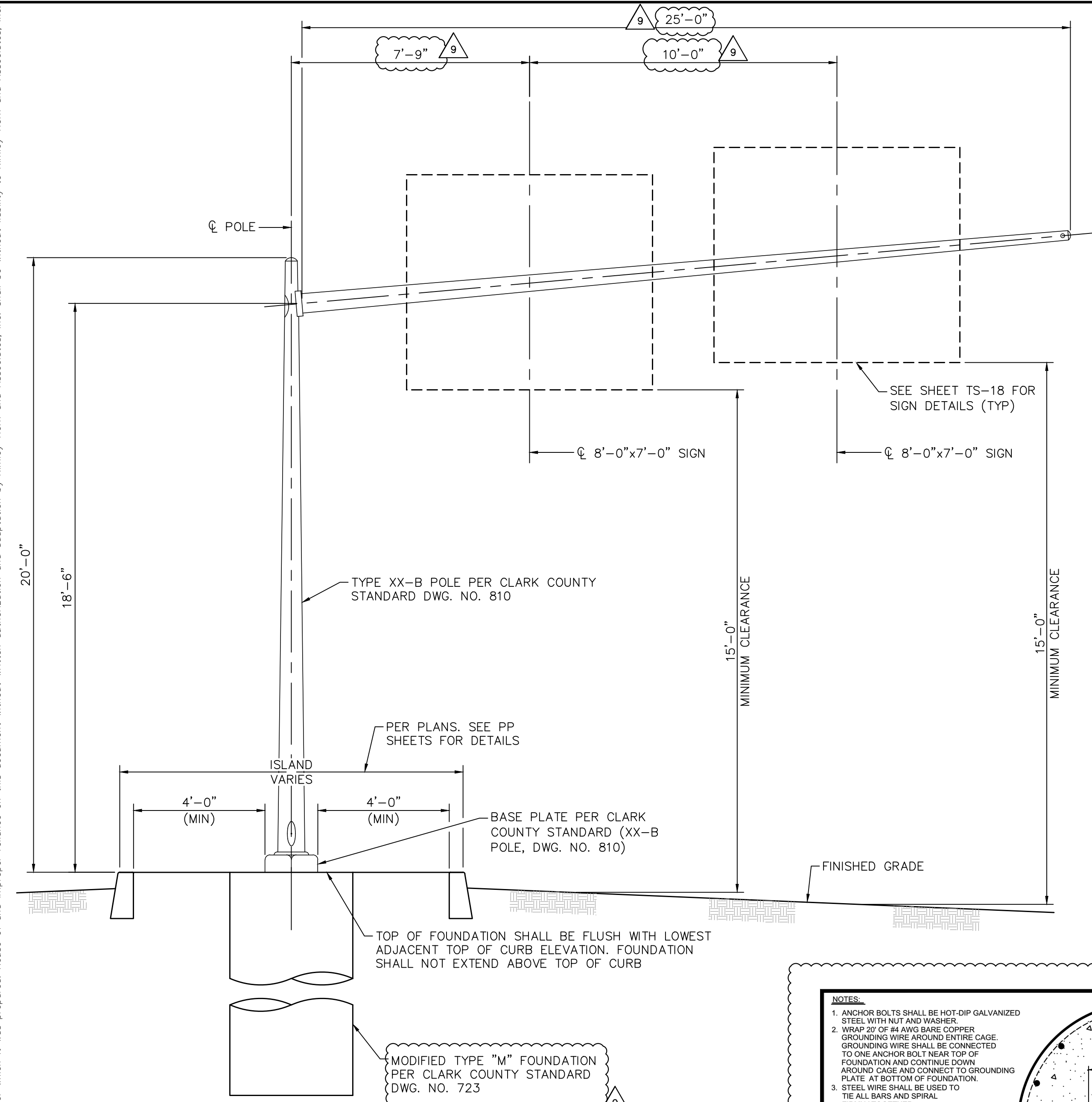
BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

SHEET ADDED
 GRAPHIC SCALE IN FEET
 0 10 20 40
 SCALE: 1" = 20'
 NORTH
 Call before you Dig
 Call before you UnderGround
 1-702-432-5300
 1-800-227-2600
 Call Before you Overhead
 1-702-227-2929

Kimley & Horn
 © 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM
 THOMAS ACKERET
 CIVIL ENGINEER
 Exp. 12/31/22
 Exp. No. 18592
 12/30/2020
 KHA PROJECT 092755002
 DATE 10/23/2019
 SCALE AS SHOWN
 DESIGNED BY TEA
 DRAWN BY SIM
 CHECKED BY RAM
 ISSUED FOR CONSTRUCTION
LAS VEGAS BLVD OVERHEAD SIGN SHEET 1
RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC
 SHEET NUMBER **TS-18**
 SHEET 320AOF 345

Plotted By: Golek, Charlie Sheet: Sct:kha Layout: TS-19 K:\LAV_Civil\092755002-Resorts World LV_Plan\CAD\PlanSheets\Big Alternates\092755002-TS19_Sign.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



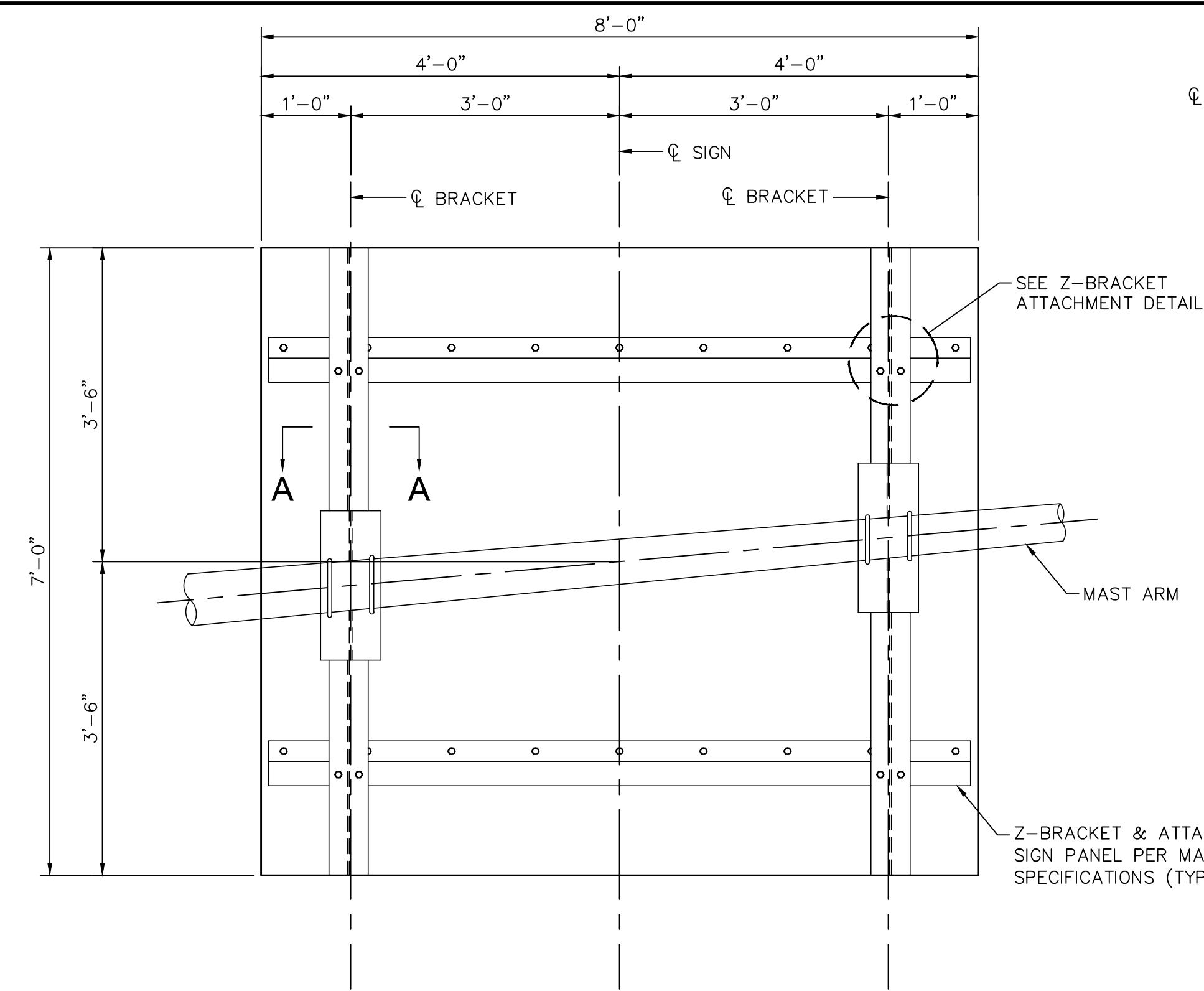
TRAFFIC POLE ELEVATION
SCALE: 3/8" = 1'-0"

TRAFFIC POLE NOTES:

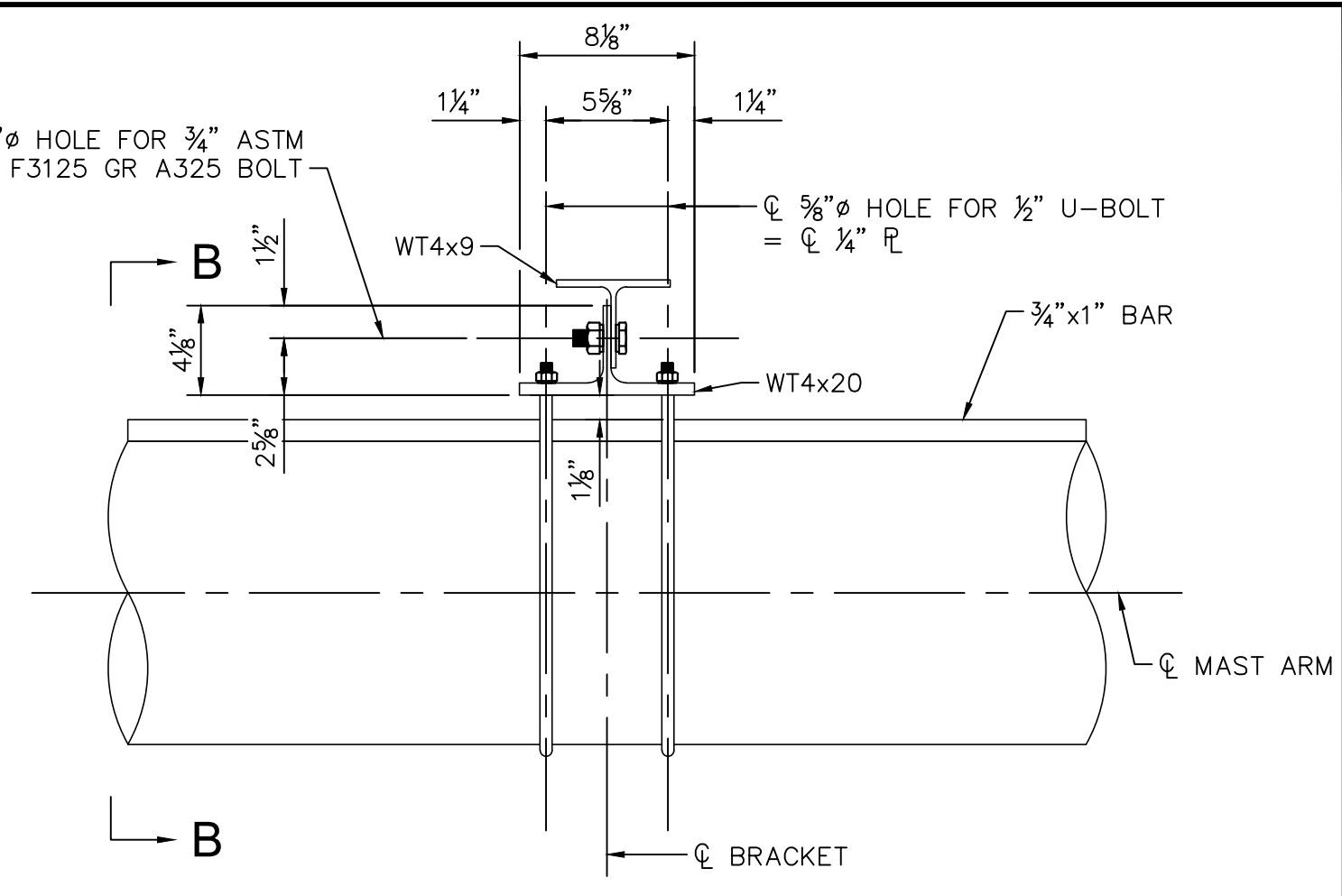
- POLE MANUFACTURER SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR THE POLE FOR DESIGN APPROVAL. POLE DESIGN SHALL CONFORM TO AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS (6TH EDITION 2013 WITH INTERIMS).
- POLE SHALL BE DESIGNED FOR FATIGUE LOADING INCLUDING NATURAL WIND GUSTS, TRUCK-INDUCED GUSTS, AND GALLOPING LOADS.
- POLE TO BE HOT-DIP GALVANIZED BY MANUFACTURER AND FINISH PAINTED FIR GREEN BY CONTRACTOR PER SPECIFICATIONS.
- HANDHOLE COVERS SHALL BE ATTACHED VIA TWO SCREWS INTO PLATES MOUNTED INSIDE THE HANDHOLE.

SIGN BRACKET NOTES:

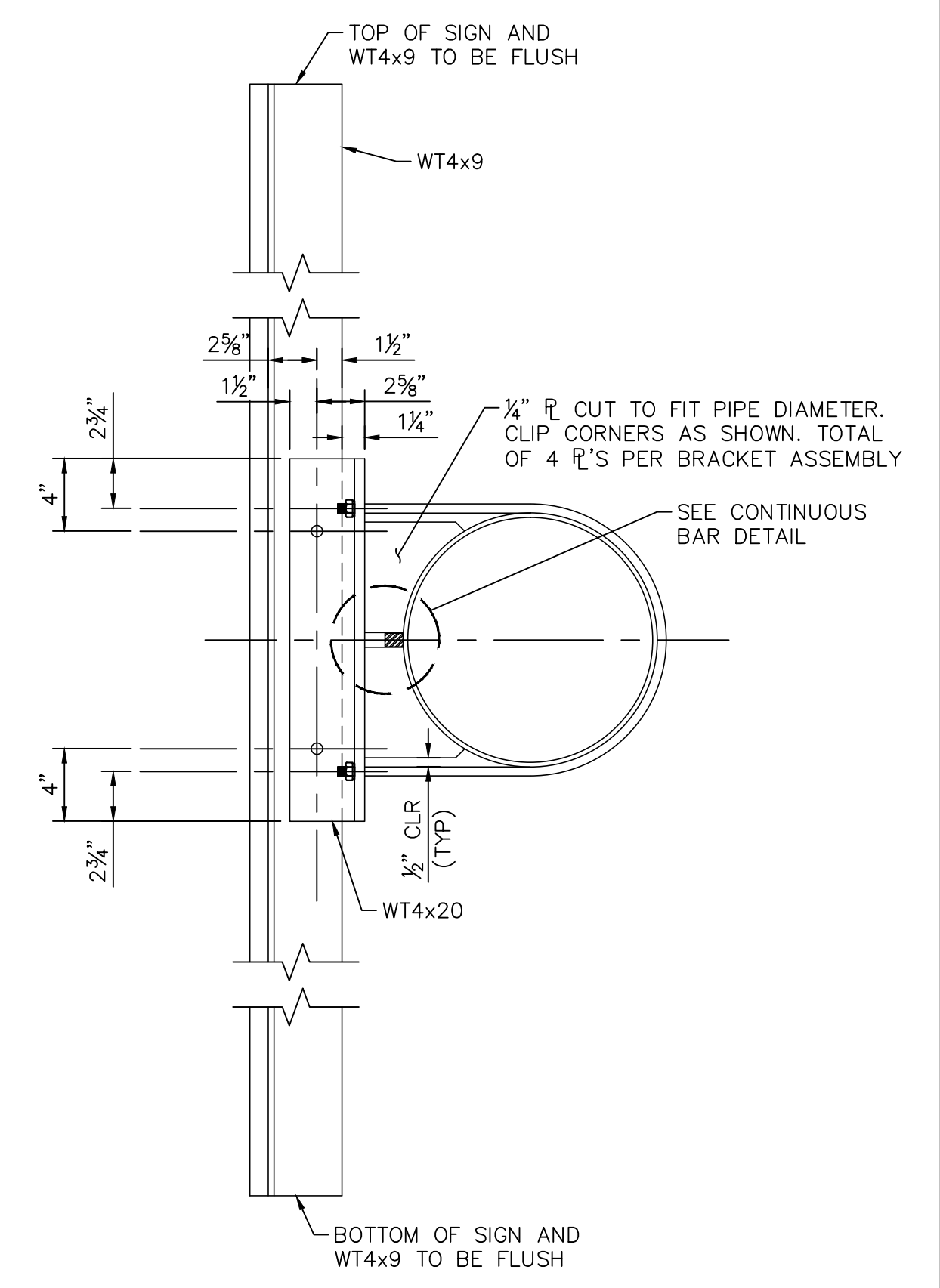
- WT MEMBERS SHALL CONFORM TO ASTM A992, GRADE 50.
- PLATES AND BARS SHALL CONFORM TO ASTM A36, GRADE 36.
- BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325.
- ALL WELD SIZES, NOT INDICATED SHALL COMPLY WITH THE LATEST AWS D1.1 BUT IN NO CASE SHALL WELD SIZE BE LESS THAN 3/16 INCH.



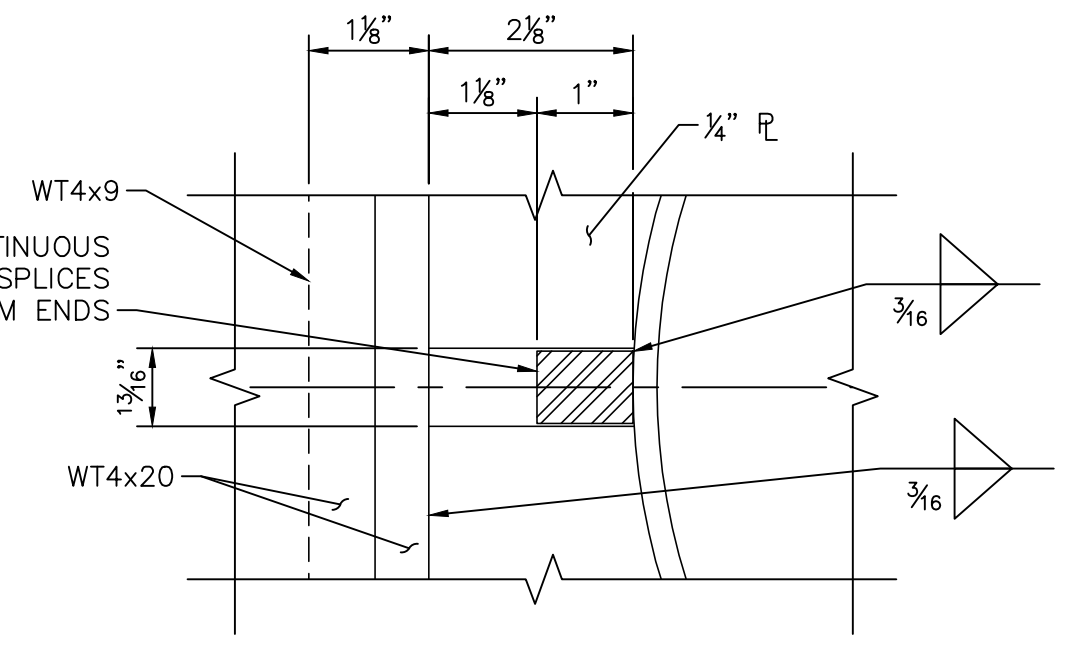
SIGN MOUNT DETAIL
SCALE: 3/4" = 1'-0"



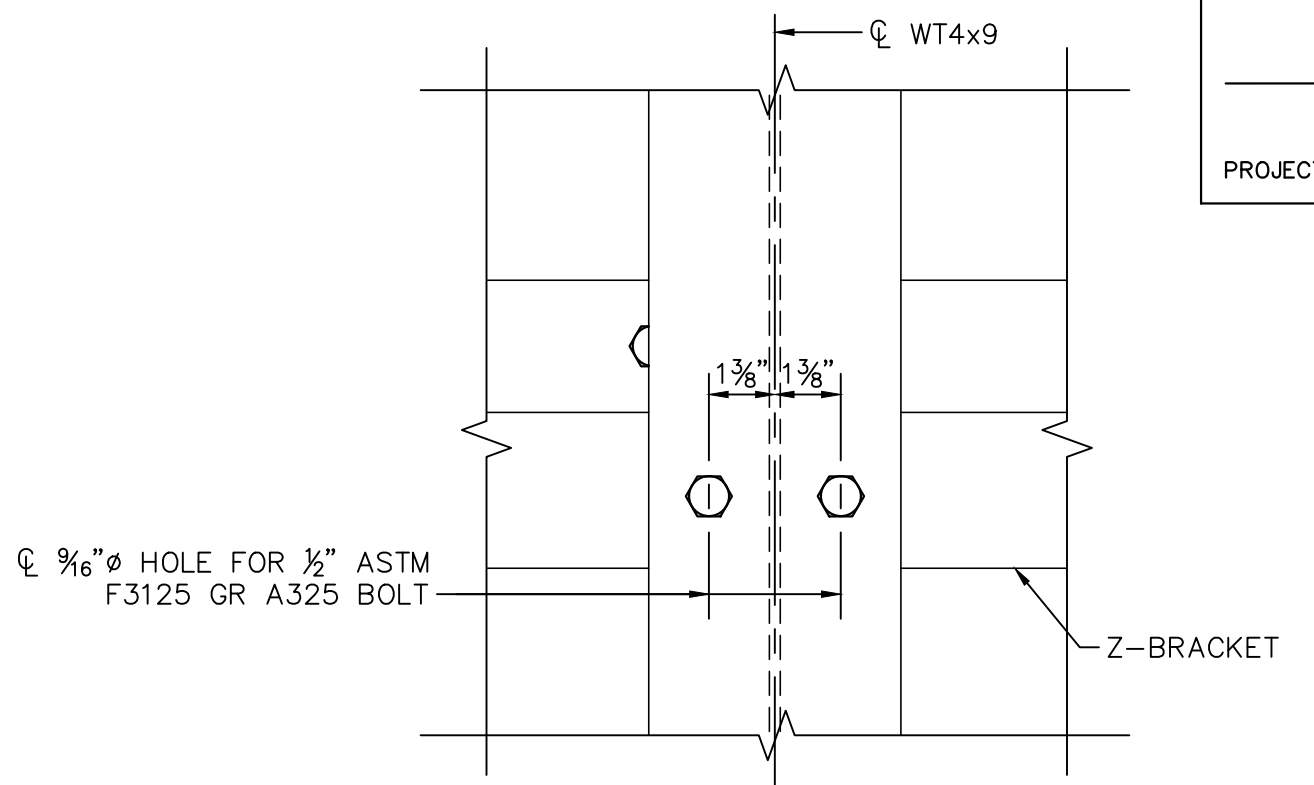
SECTION A-A
SCALE: 1 1/2" = 1'-0"



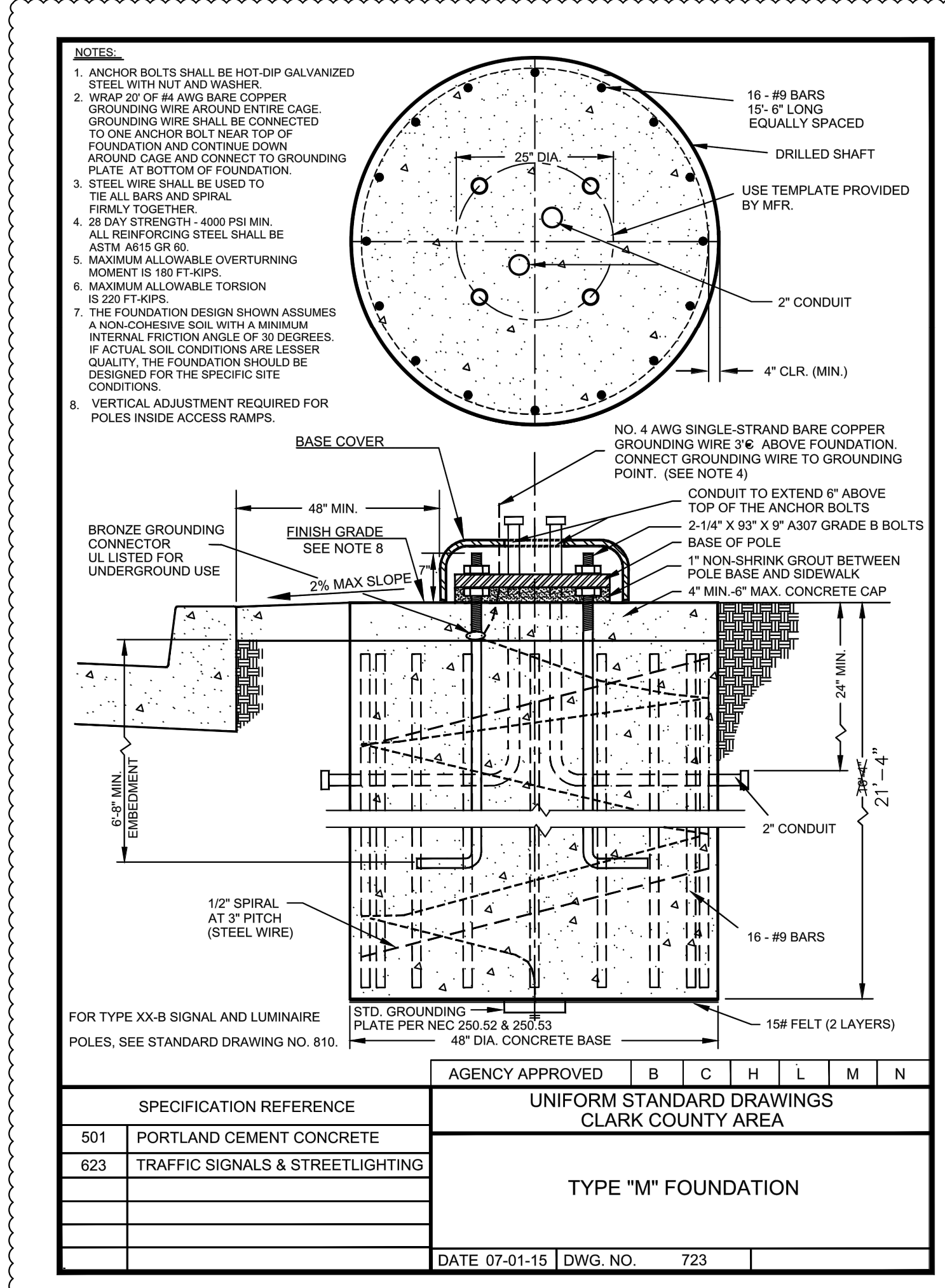
SECTION B-B
SCALE: 1 1/2" = 1'-0"



CONTINUOUS BAR DETAIL
SCALE: 6" = 1'-0"



Z-BRACKET ATTACHMENT DETAIL
SCALE: 3" = 1'-0"



SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
501 PORTLAND CEMENT CONCRETE	
623 TRAFFIC SIGNALS & STREETLIGHTING	
TYPE "M" FOUNDATION	
DATE 07-01-15	DWG. NO. 723

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE: _____

Call before you dig
 UnderGround
 1-702-432-5300
 FRENCH (NO OTHER SIZES OF TEMPORARY FLAGS)

Call 811
 Before You Overhead
 1-800-227-2600 1-702-227-2929

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

No.	REVISIONS	DATE	BY
9	RWLY RELATED IMPROVEMENT REV	12/28/2020	KH
7	RWLY RELATED IMPROVEMENT REV	8/25/2020	KH
4	REVISED PER REVISION No. 4	2/18/2020	KH
2	REVISED PER REVISION No. 2	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

ISSUED FOR CONSTRUCTION

2020-1229

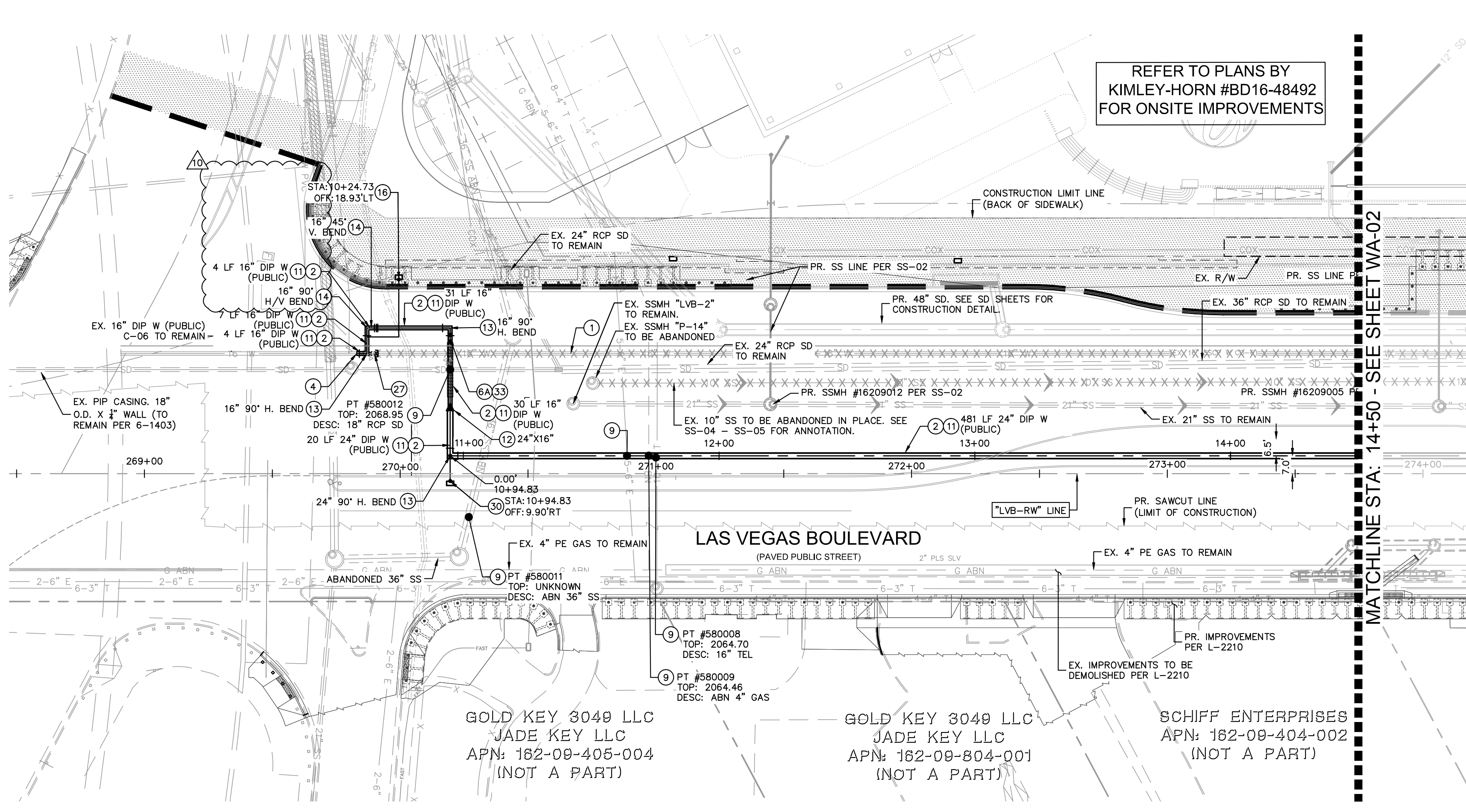
DAVID J. LEISTIKO
CIVIL ENGINEER
Exp. 12/31/21
No. 01632928

KHA PROJECT 092755002
DATE 10/23/2019
DESIGNED BY TEA
DRAWN BY SIM
CHECKED BY RAN
ISSUED FOR CONSTRUCTION

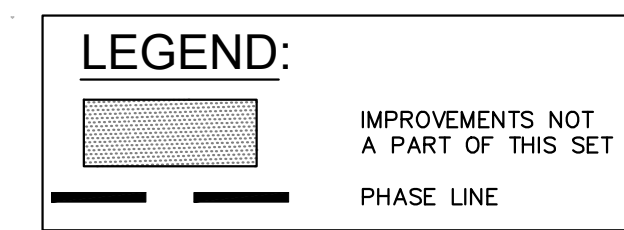
LAS VEGAS BLVD OVERHEAD SIGN SHEET 2

SHEET NUMBER TS-19

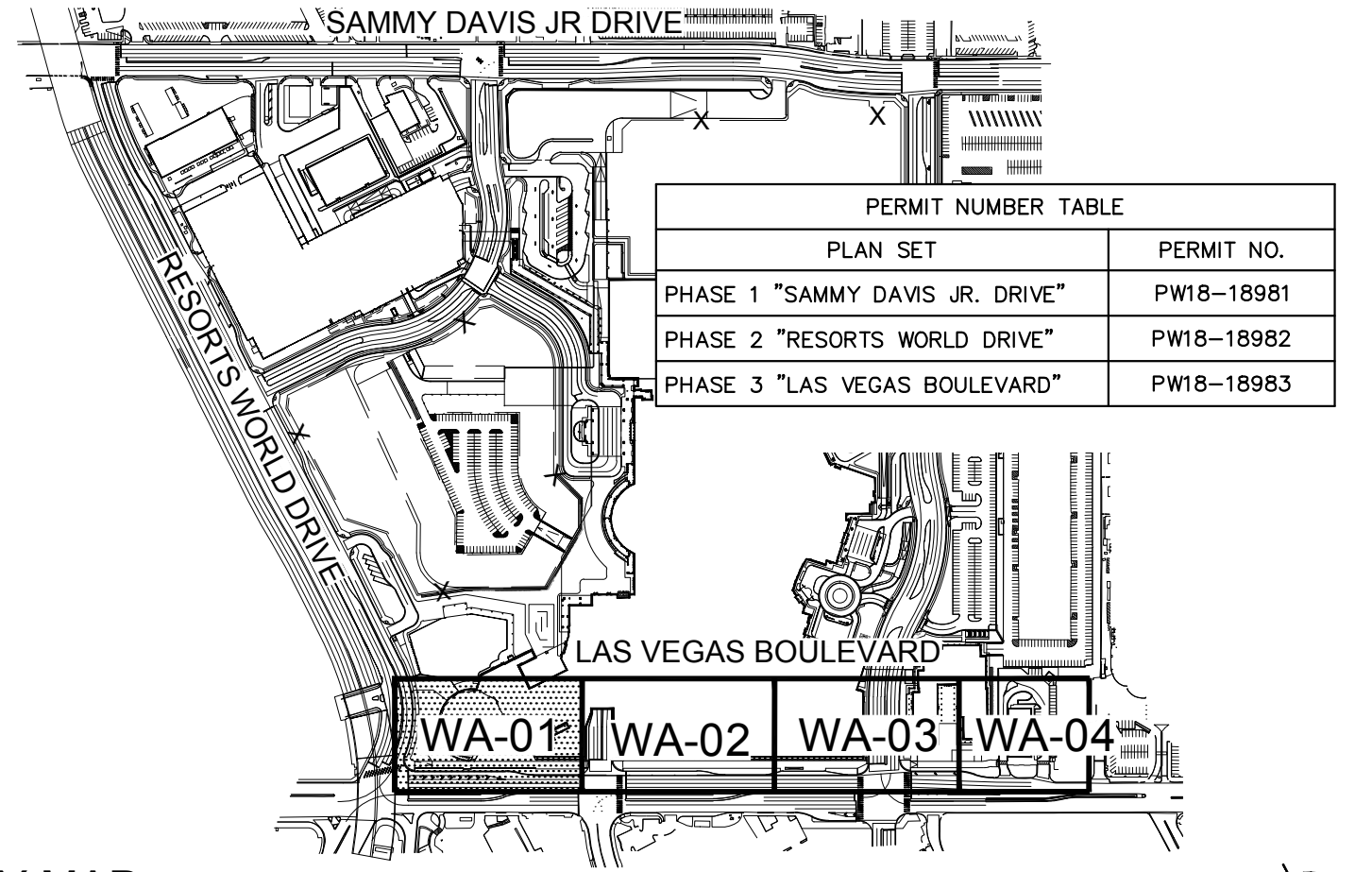
Plotted By: Leo-Sugihara, Kellee Sheet: LVB-WA-1 K:\LAV_Civil\092755002-Resorts World LV PH1\CAD\PlanSheets\Bldg Alternates\092755002-WA-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



REFER TO PLANS BY
KIMLEY-HORN #BD16-48492
FOR ONSITE IMPROVEMENTS



BACKGROUND
UPDATED



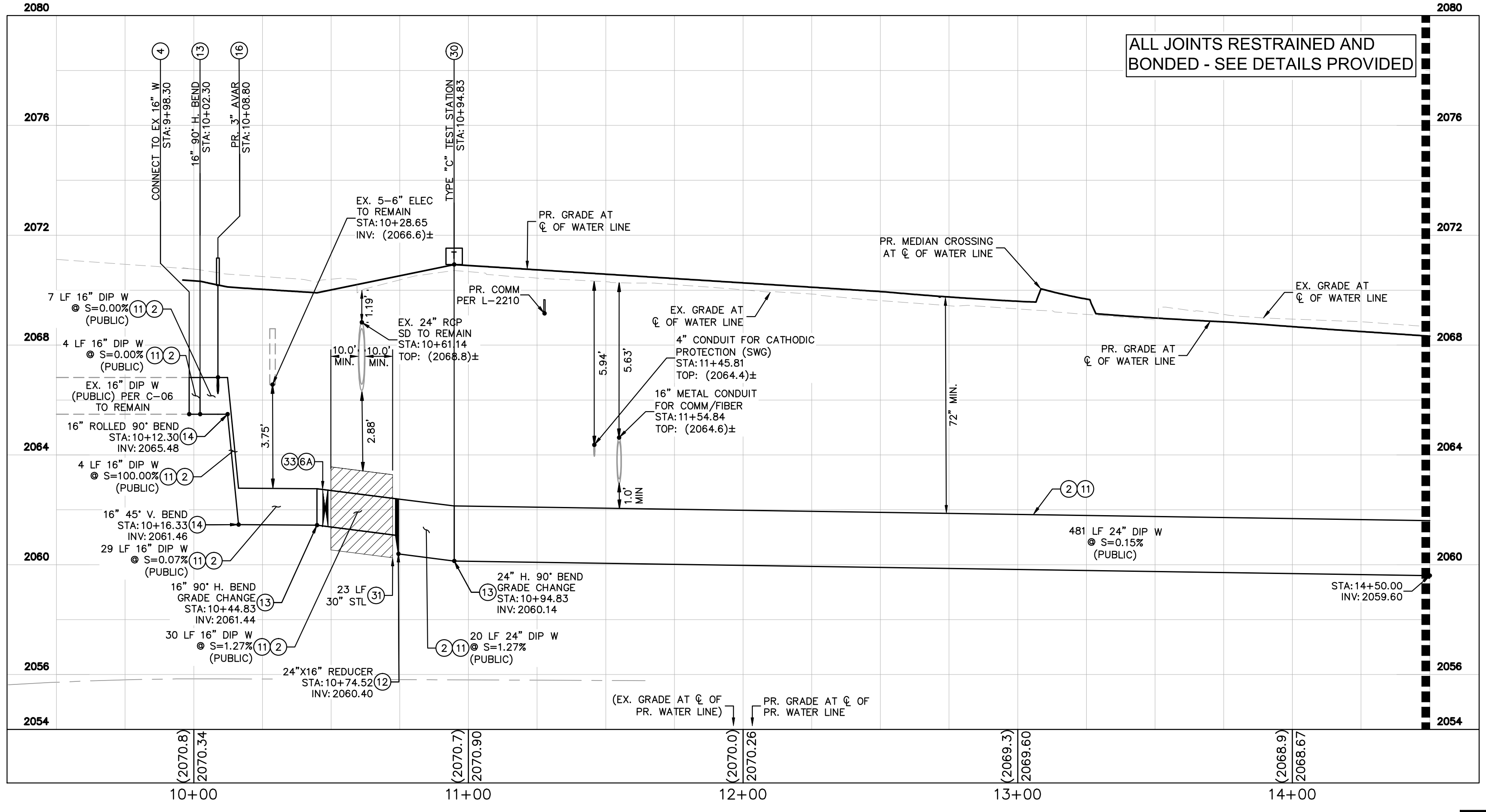
KEY MAP
NTS

GENERAL NOTES

- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- SEE LVWD SPECIFIC NOTES ON SHEET WA-05

WATER CONSTRUCTION NOTES

- ABANDON EXISTING WATER PER UDACS 2.12. CONTRACTOR TO PROVIDE BOTH METHOD OF FILLING AND ABANDONMENT PLAN TO LVWD FOR APPROVAL PRIOR TO ABANDONMENT. REFER TO L-2210 'PHASE A' SHEETS WT-39 AND WT-40 FOR ABANDONMENT PLANS.
- INSTALL MECHANICALLY RESTRAINED DIP WATER LINE, SIZE AND LENGTH AS NOTED ON PLAN.
- CONNECT TO EXISTING 16" DIP WATER MAIN. MAINTAIN 3' MINIMUM HORIZONTAL SEPARATION FROM EXISTING 12" PVC LATERAL.
- INSTALL GATE VALVE, SIZE PER LINE, PER UDACS PLATE No. 30 & 39.
- UTILITY CROSSING WITH POTHOLE INFORMATION.
- INSTALL TYPE "T" TEST STATION WITH ANODE. INSTALL 6 ANODES (48 LB MAGNESIUM PACKAGED) AT EACH STATION. SEE DETAIL I ON SHEET WT-44.
- CONTRACTOR SHALL BOND ALL JOINTS WITH #2 AWG BOND CABLES (2 PER JOINT).
- INSTALL REDUCER, SIZE AS NOTED ON PLAN.
- INSTALL HORIZONTAL BEND WITH MECHANICALLY RESTRAINED JOINTS (PIPE SIZES GREATER THAN 12" IN DIAMETER), SIZE AND BEND AS NOTED ON PLAN.
- INSTALL VERTICAL BEND WITH MECHANICALLY RESTRAINED JOINTS (PIPE SIZES GREATER THAN 12" IN DIAMETER), SIZE AND BEND AS NOTED ON PLAN.
- INSTALL 3" AVAR PER DETAIL Y ON SHEET WT-51.
- CUT, PLUG AND CAP EXISTING WATER MAIN.
- INSTALL TYPE "C" TEST STATION PER DETAIL GG ON SHEET WT-43.
- INSTALL PIPE CASING PER UDACS PLATE No. 22 AND 23, LENGTH AS NOTED ON PLAN.
- THE NEW MAIN SHALL BE INSTALLED, PRESSURE TESTED, AND HEALTH SAMPLED TO THIS GATE VALVE TO TIE-IN TO EXISTING WATER MAIN.



ALL JOINTS RESTRAINED AND
BONDED - SEE DETAILS PROVIDED

MATCHLINE STA: 14+50 - SEE SHEET WA-02

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY: S. KAMOJALA

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE: _____

CCWRD APPROVAL

ORIGINALLY SIGNED BY: JOHNNY ALHWAYEK

CLARK COUNTY WATER RECLAMATION DISTRICT

11/25/2019

DATE

CCWRD PIPES #19,949.

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 95W6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

CONVERSION TO 2018 BENCHMARK:
637.459 - 0.073m = 637.386 METERS
2091.40 - 0.24' = 2091.16 FEET

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

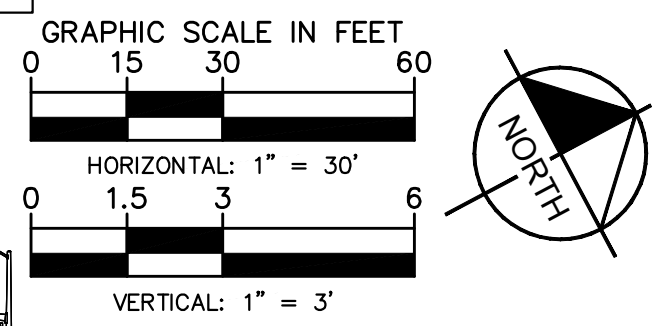
L-2210 NOTES:
REFER TO WATER LINE PLANS IN L-2210 FOR ADDITIONAL DETAILS, SPECIFICATIONS AND NOTES

FIRE DEPARTMENT APPROVAL

By: ORIGINALLY SIGNED BY E. KAMINSKI DATE: _____

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.



STATION EQUATION:
LVB-RW LINE STA: 270+19.56 =
LVB 24" WATER MAIN STA: 10+35.00

LVB 24" WATER MAIN PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

THOMAS ACKERT
Exp. 12/31/22
CIVIL ENGINEER
No. 18592

KHA PROJECT	092755002
DATE	10/23/2019
SCALE	AS SHOWN
DESIGNED BY	TEA
DRAWN BY	SWM
CHECKED BY	RAM

ISSUED FOR CONSTRUCTION

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA

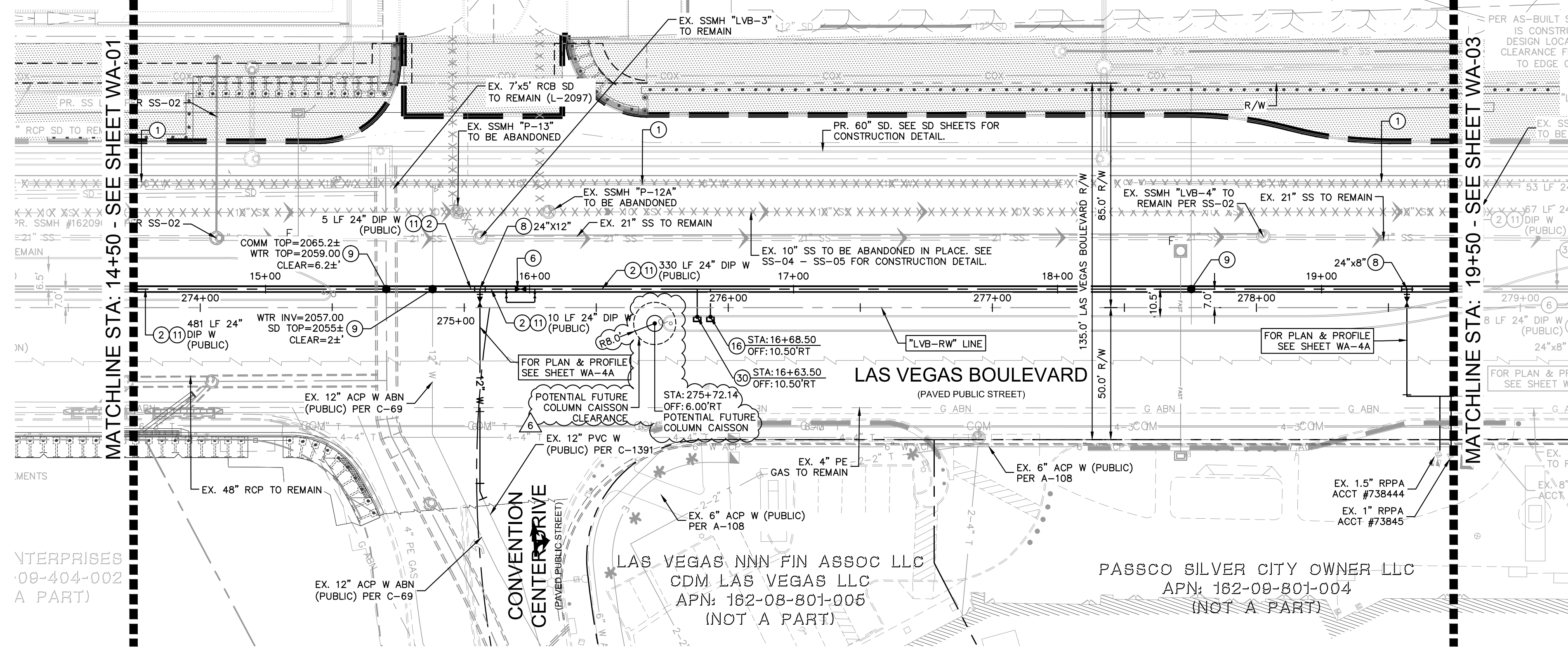
SHEET NUMBER
WA-01

HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13655 (TDS UPDATE)

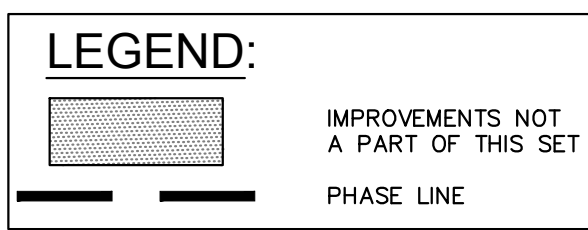
PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

Plotted By: Leo-Sugihara, Kallea - Sheet Set: KVA - Layout: LVB WA-2 - K:\LAV-Civil\092755002-Resorts World LV Ph1\CAD\PlanSheets\Bldg Alternates\092755002-WA-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

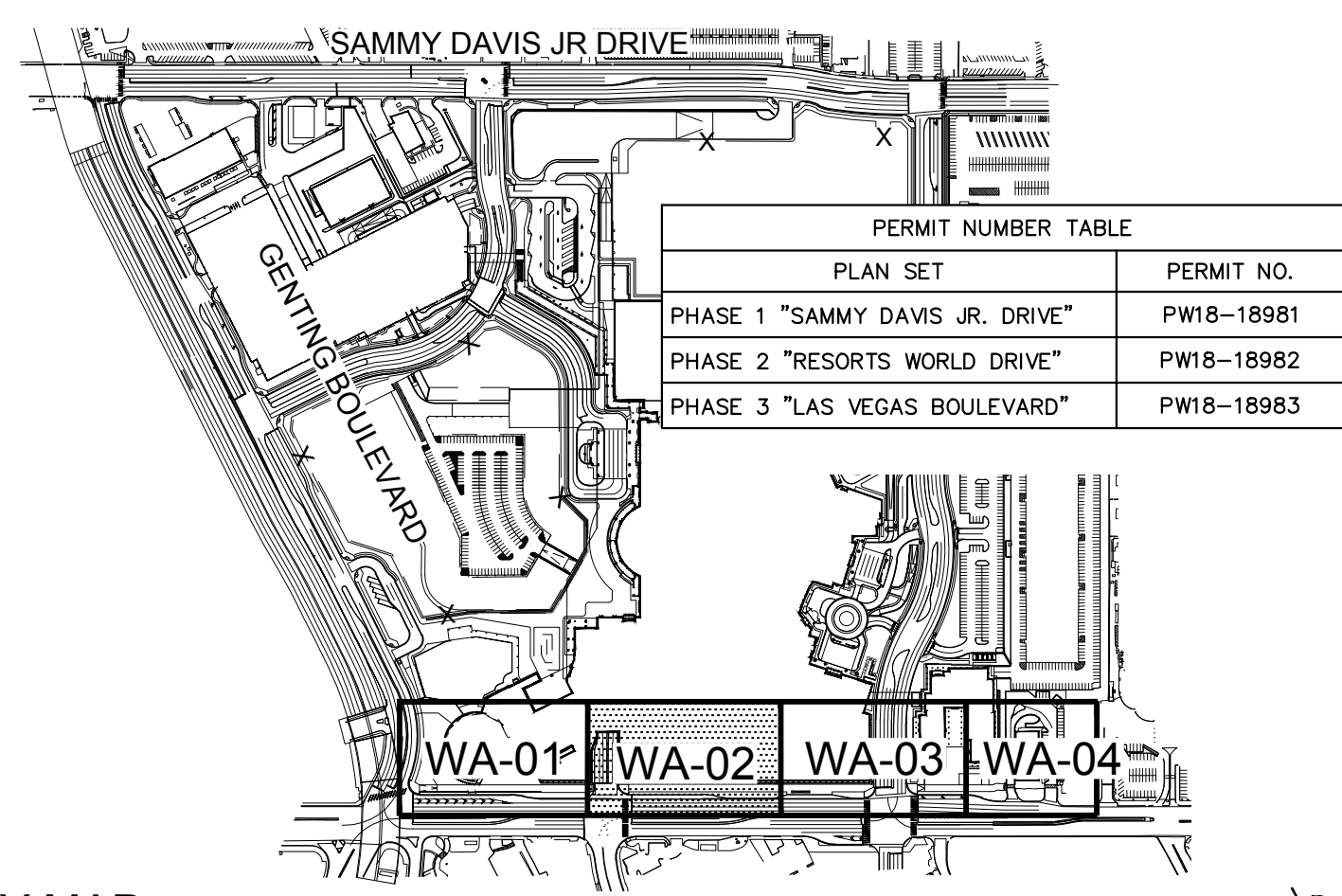
NS BY
16-48492
IMPROVEMENTS



REFER TO PLANS BY
KIMLEY-HORN #BD16-48492
FOR ONSITE IMPROVEMENTS



BACKGROUND
UPDATED



KEY MAP
NTS

GENERAL NOTES

- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- SEE LVWD SPECIFIC NOTES ON SHEET WA-05

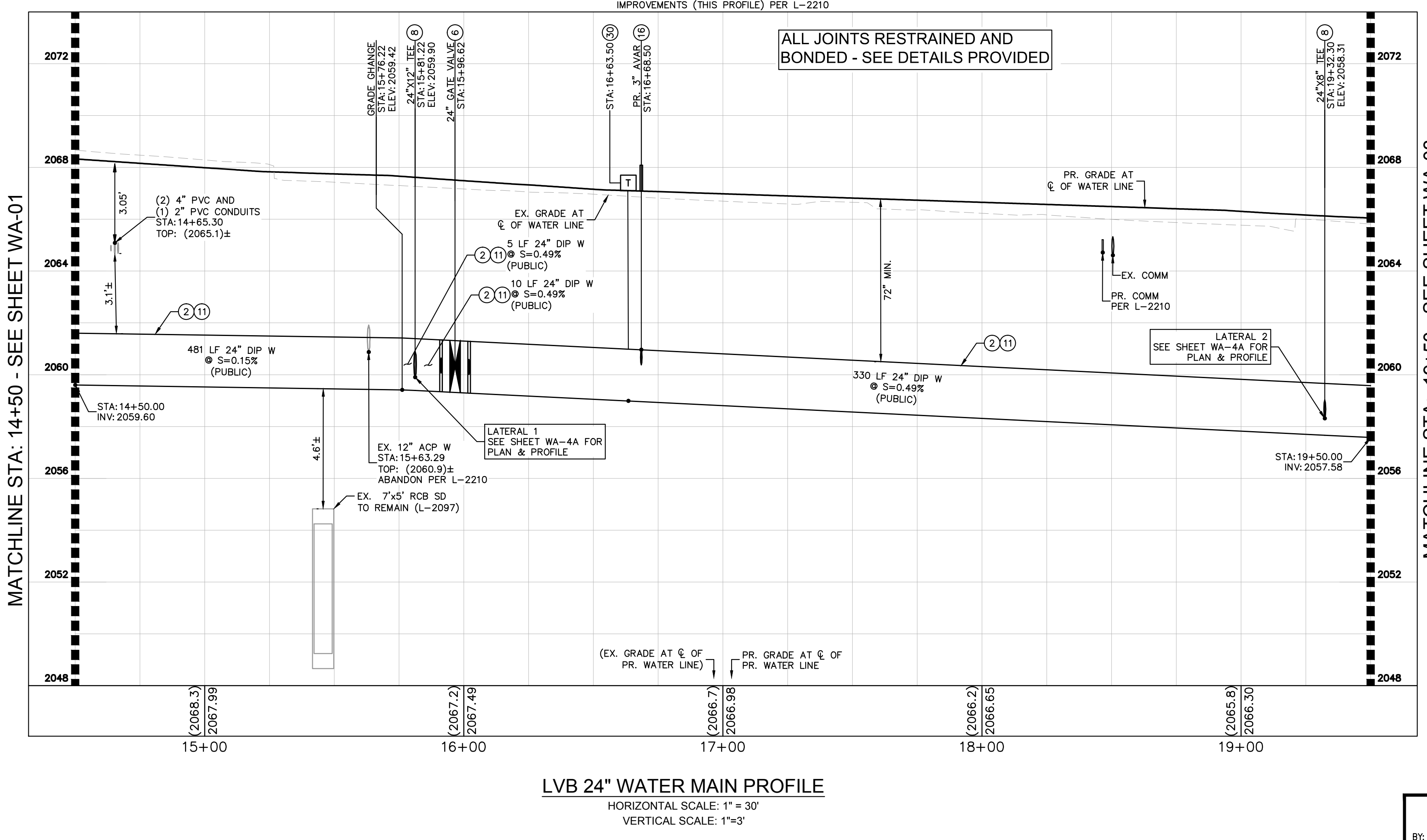
WATER CONSTRUCTION NOTES

- ABANDON EXISTING WATER PER UDACS 2.12. CONTRACTOR TO PROVIDE BOTH METHOD OF FILLING AND ABANDONMENT PLAN TO LVVWD FOR APPROVAL PRIOR TO ABANDONMENT. REFER TO L-2210 "PHASE A" SHEETS WT-39 AND WT-40 FOR ABANDONMENT PLANS.
- INSTALL MECHANICALLY RESTRAINED DIP WATER LINE. SIZE AND LENGTH AS NOTED ON PLAN.
- INSTALL 24" GATE VALVE WITH 6" BYPASS PER UDACS PLATE No. 39. AND DETAIL M ON SHEET WT-44.
- INSTALL TEE FITTING WITH MECHANICALLY RESTRAINED JOINTS. SIZE AS NOTED ON PLAN.
- UTILITY CROSSING WITH POTHOLE INFORMATION.
- INSTALL TYPE "T" TEST STATION WITH ANODE. INSTALL 6 ANODES (48 LB MAGNESIUM PACKAGED) AT EACH STATION. SEE DETAIL I ON SHEET WT-44.
- CONTRACTOR SHALL BOND ALL JOINTS WITH #2 AWG BOND CABLES (2 PER JOINT).
- INSTALL 3" AVAR PER DETAIL Y ON SHEET WT-51.
- INSTALL BLOW-OFF ASSEMBLY PER UDACS PLATE No. 37.

ENTERPRISES
09-404-002
A PART

LAS VEGAS NNN FIN ASSOC LLC
CDM LAS VEGAS LLC
APN: 182-08-801-005
(NOT A PART)

PASSCO SILVER CITY OWNER LLC
APN: 182-09-801-004
(NOT A PART)



ALL JOINTS RESTRAINED AND
BONDED - SEE DETAILS PROVIDED

LVB 24" WATER MAIN PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY: S. KAMOUJALA
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE: _____

CCWRD APPROVAL

ORIGINALLY SIGNED BY: J. ALHWAYEK
CLARK COUNTY WATER RECLAMATION DISTRICT

DATE: _____

CCWRD PIPES #19,949.
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL
BENCHMARK No. "7C11 9SW6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

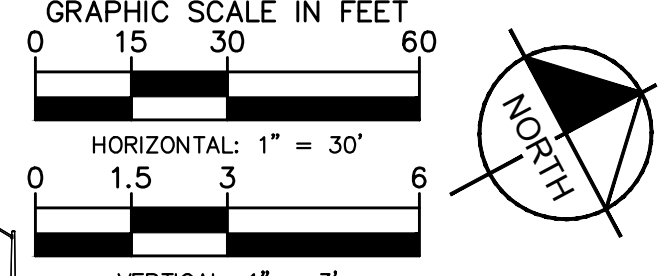
ELEVATION = 637.459 METERS
2091.40 FEET

CONVERSION TO 2018 BENCHMARK:
637.459 - 0.073m = 637.386 METERS
2091.40 - 0.24' = 2091.16 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.



L-2210 NOTES:
REFER TO WATER LINE PLANS IN L-2210 FOR ADDITIONAL DETAILS, SPECIFICATIONS AND NOTES

FIRE DEPARTMENT APPROVAL

BY: _____ DATE: _____

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

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

Call before you Overhead
Avoid overhead power line contact. It's costly.

UnderGround
1-702-432-5300

811
1-800-227-2600

Call Before you Overhead
1-702-227-2929

Kimley-Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

THOMAS ACKERT
Exp. 12/31/22
CIVIL
12/30/2020

LAS VEGAS BLVD WATER MAIN PLAN & PROFILE

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

CLARK COUNTY NEVADA

ISSUED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION

DATE: 12/30/2020

DESIGNED BY: TEA
DRAWN BY: SIM
CHECKED BY: RAM

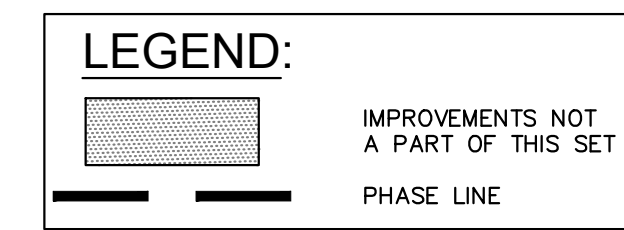
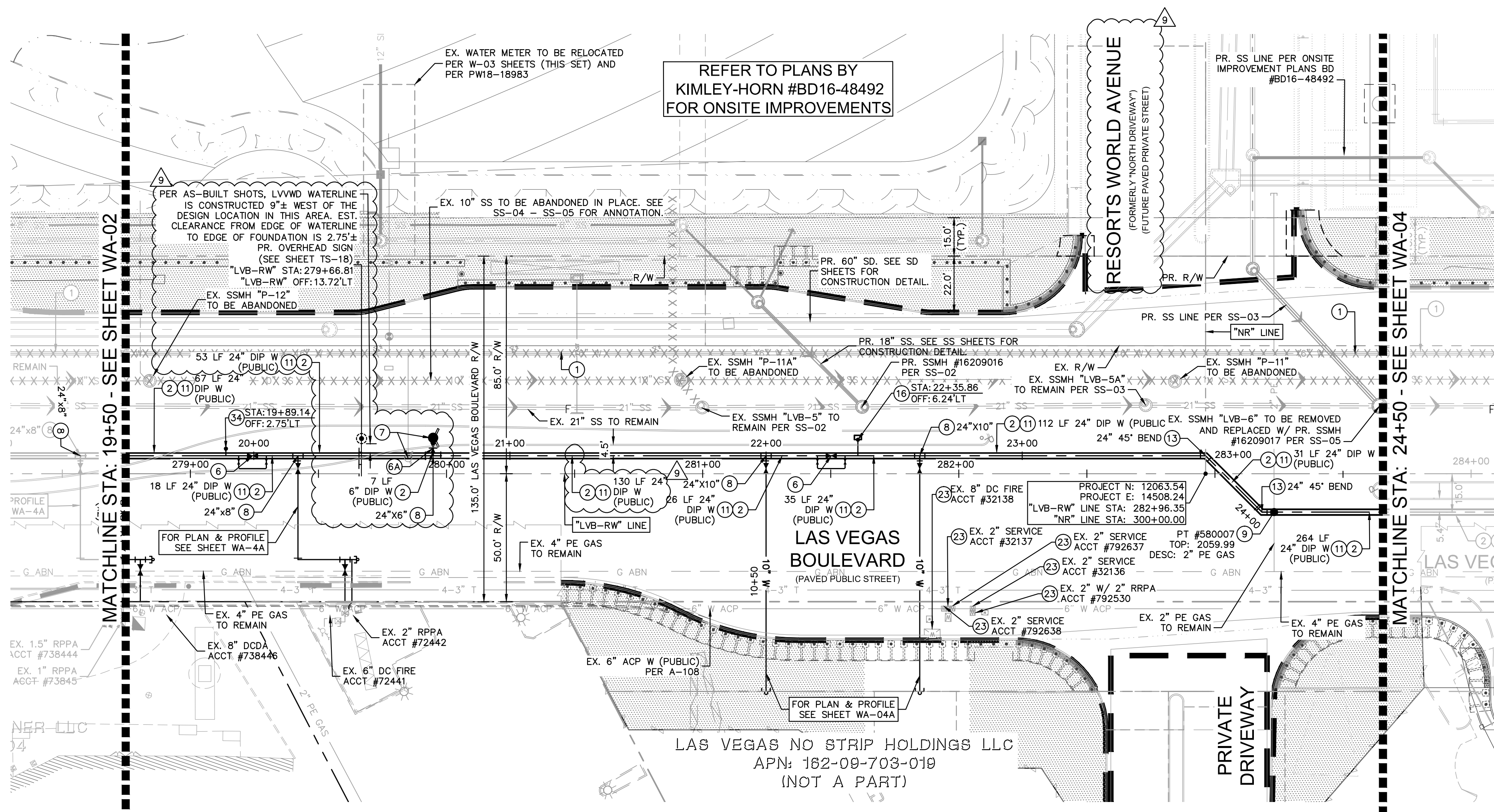
PROJECT: 092755002
DATE: 10/23/2019
SCALE: AS SHOWN

SHEET NUMBER
WA-02

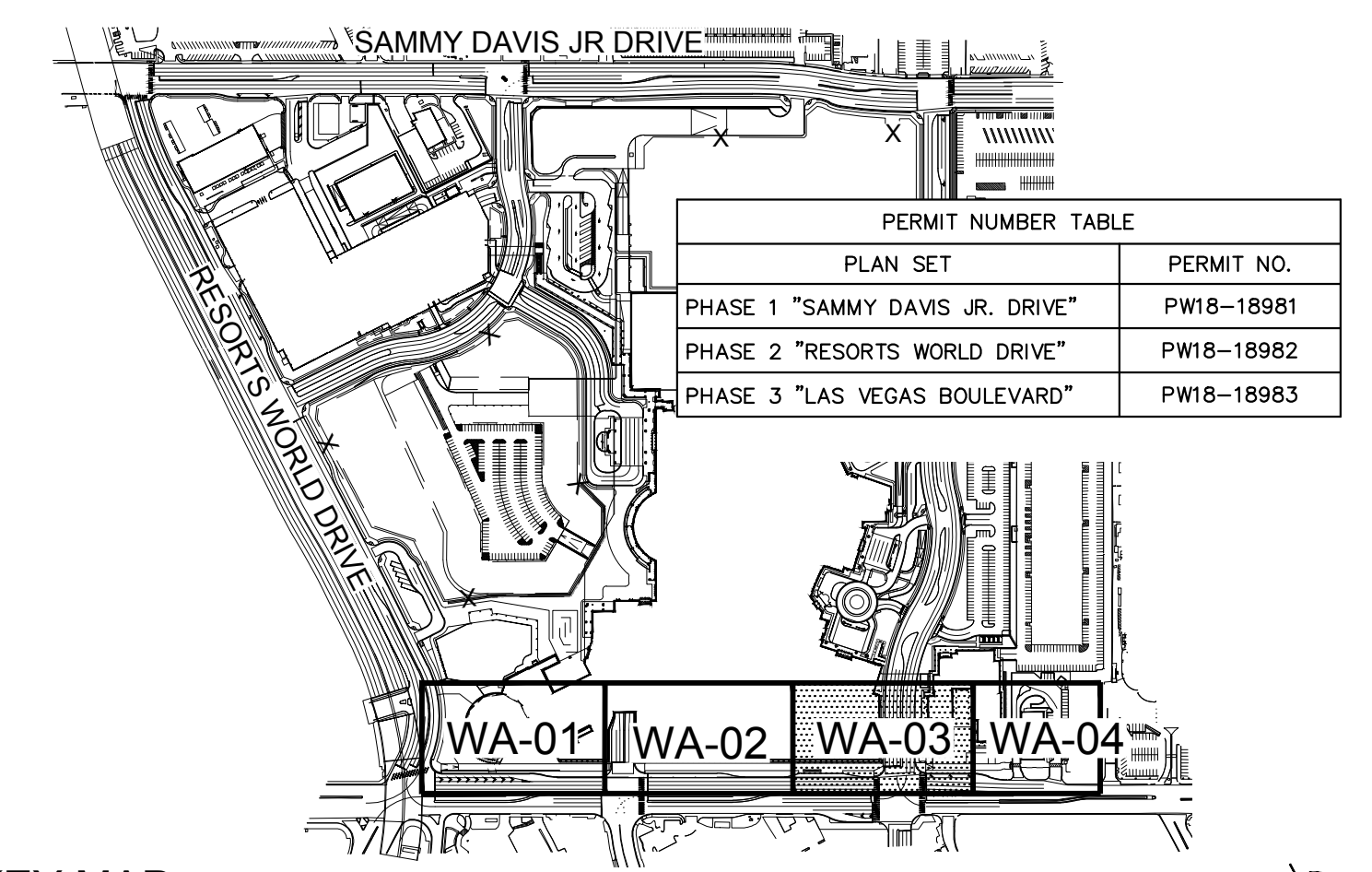
DATE: 11/18/2020 KH
07/24/2020 KH
2/18/2020 KH
11/13/2019 KH
10/23/2019 KH

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
PH 4-PW18-18984, PH 5-PW18-18985, PH 6-PW18-18986, PH 7-PW18-18987, PH 8-PW18-18988, PH 9-PW18-18989

Plotted By: Loo-Sugihara, Kallie - Sheet Set: LVB-WA-3 - K:\LAV-Civil\092725002-Resorts World LV\Plan\CAD\PlanSheets\B161\Alternates\092725002-WA-LVB.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse and/or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



BACKGROUND UPDATED



KEY MAP
NTS

GENERAL NOTES

- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- SEE LVVWD SPECIFIC NOTES ON SHEET WA-05

WATER CONSTRUCTION NOTES

- ABANDON EXISTING WATER PER UDACS 2.12. CONTRACTOR TO PROVIDE BOTH METHOD OF FILLING AND ABANDONMENT PLAN TO LVVWD FOR APPROVAL PRIOR TO ABANDONMENT. REFER TO L-2210 'PHASE A' SHEETS WT-39 AND WT-40 FOR ABANDONMENT PLANS.
- INSTALL MECHANICALLY RESTRAINED DIP WATER LINE, SIZE AND LENGTH AS NOTED ON PLAN.
- INSTALL 24\"/>

ABANDONED VALVES CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE: _____

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE: _____

CCWRD PIPES #19,949

SIGNATURE ON THESE PLANS SHALL NOT BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 9SW6"

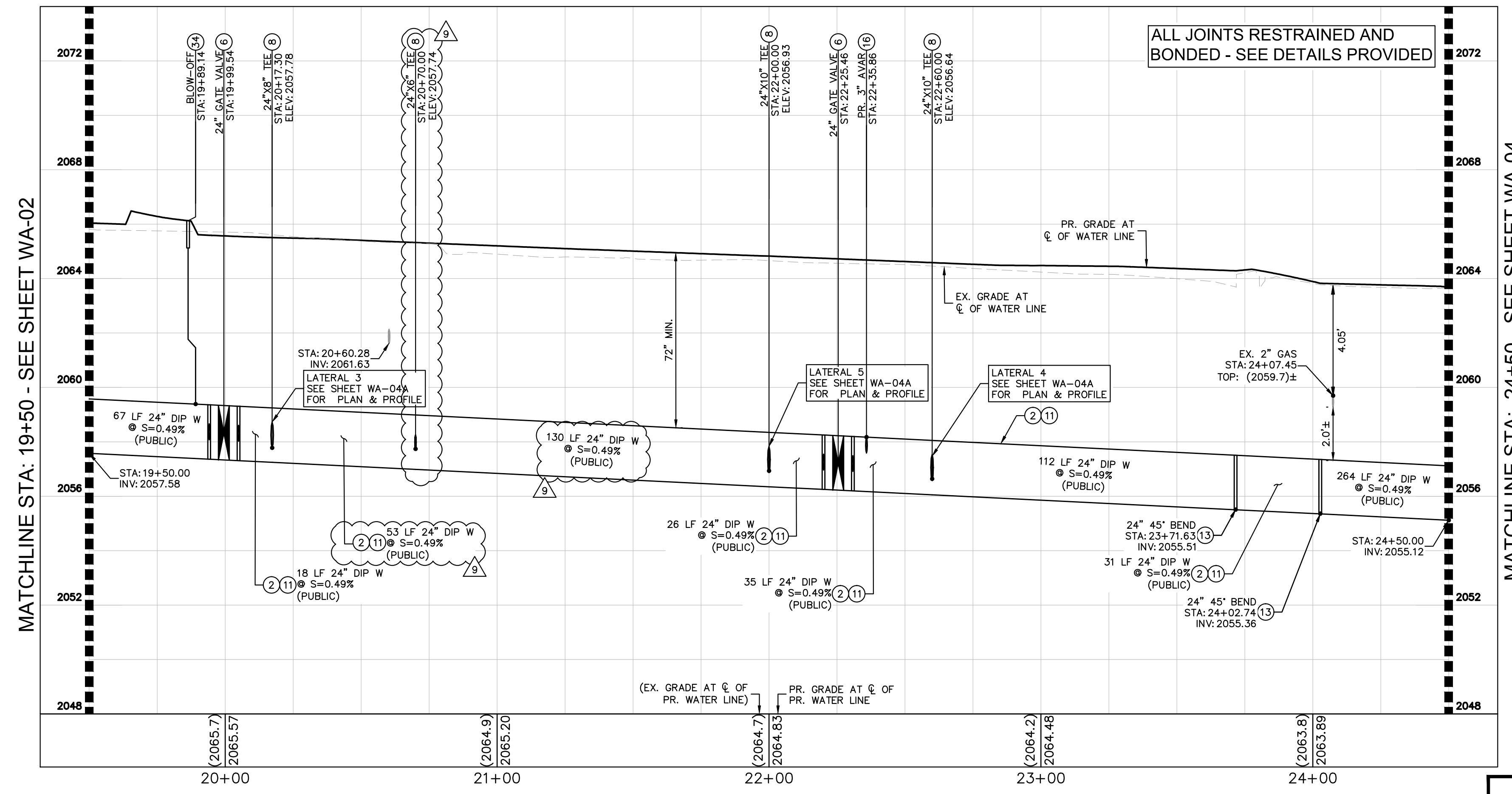
RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
2091.40 FEET

CONVERSION TO 2018 BENCHMARK:
637.459-0.073m=637.386 METERS
2091.40-0.24=2091.16 FEET

BASIS OF BEARING

NORTH 27°59'14\"/>



LVB 24\"/>

ALL JOINTS RESTRAINED AND BONDED - SEE DETAILS PROVIDED

L-2210 NOTES:
REFER TO WATER LINE PLANS IN L-2210 FOR ADDITIONAL DETAILS, SPECIFICATIONS AND NOTES

FIRE DEPARTMENT APPROVAL

BY: _____ DATE: _____

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

GRAPHIC SCALE IN FEET

HORIZONTAL: 1" = 30'

VERTICAL: 1" = 3'

Call before you Dig

Call before you Dig

Call before you Dig

Call before you Dig

Kimley & Horn

ENGINEERS

THOMAS ACKERT
Exp. 12/31/22
CIVIL
Professional No. 18592

12/30/2020

SCALE AS SHOWN

DESIGNED BY TEA

DRAWN BY SIM

CHECKED BY RAM

ISSUED FOR CONSTRUCTION

LAS VEGAS BLVD WATER MAIN PLAN & PROFILE

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

CLARK COUNTY NEVADA

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

CLARK COUNTY NEVADA

SHEET NUMBER WA-03

SHEET 323 OF 345

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

DATE BY

REVISIONS

NO. DATE BY

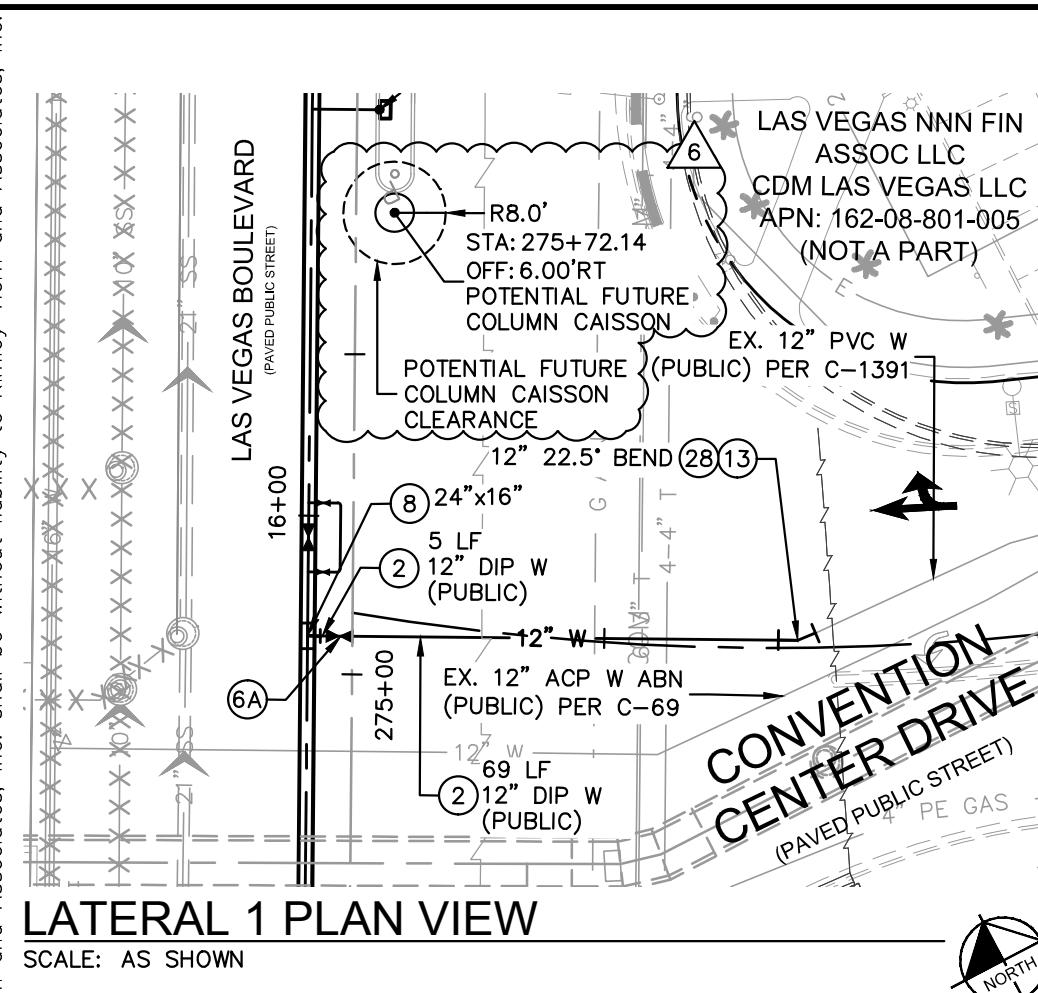
0 ISSUED FOR CONSTRUCTION 10/23/2019 KH

2 REVISED PER REVISION No. 2 11/13/2019 KH

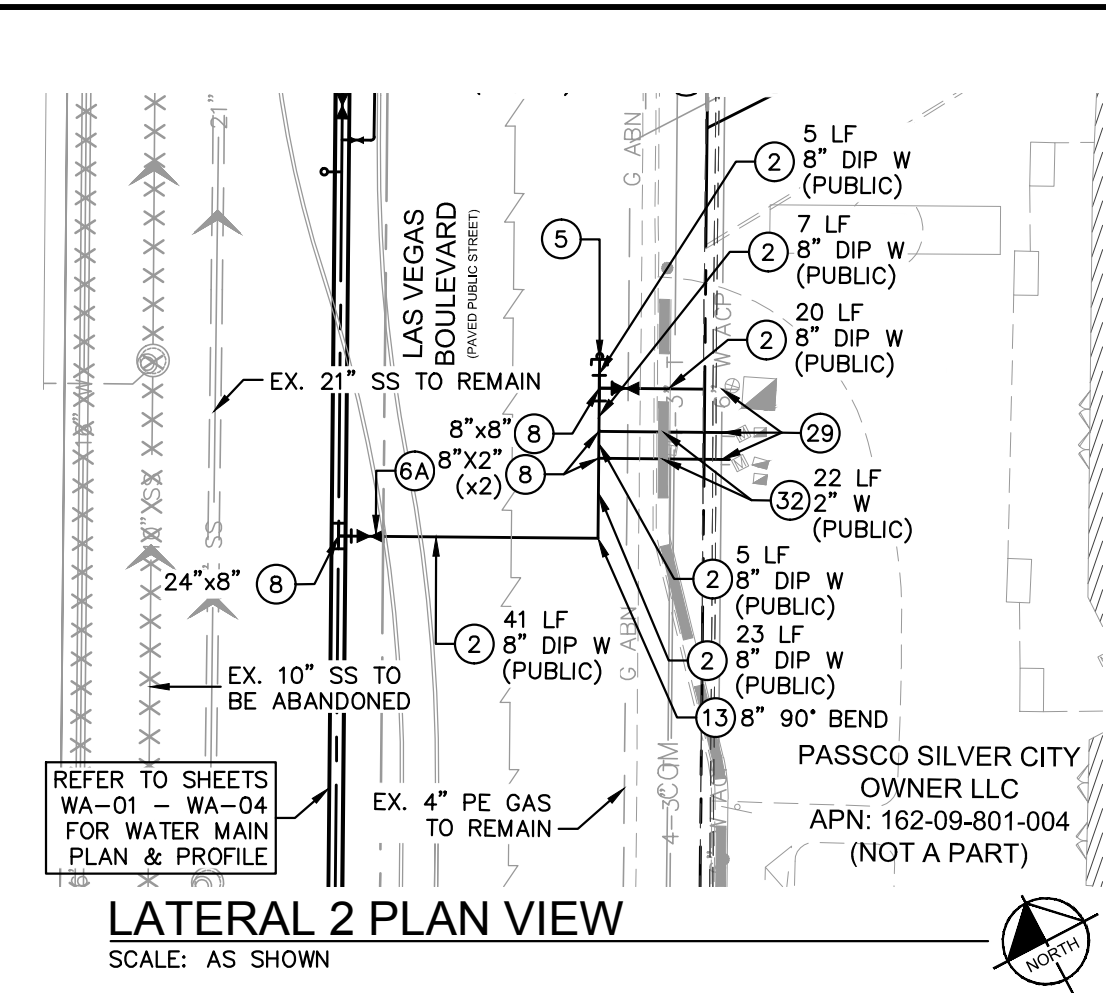
4 REVISED PER REVISION No. 4 2/18/2020 KH

9 RWLY RELATED IMPROVEMENT REV 11/18/2020 KH

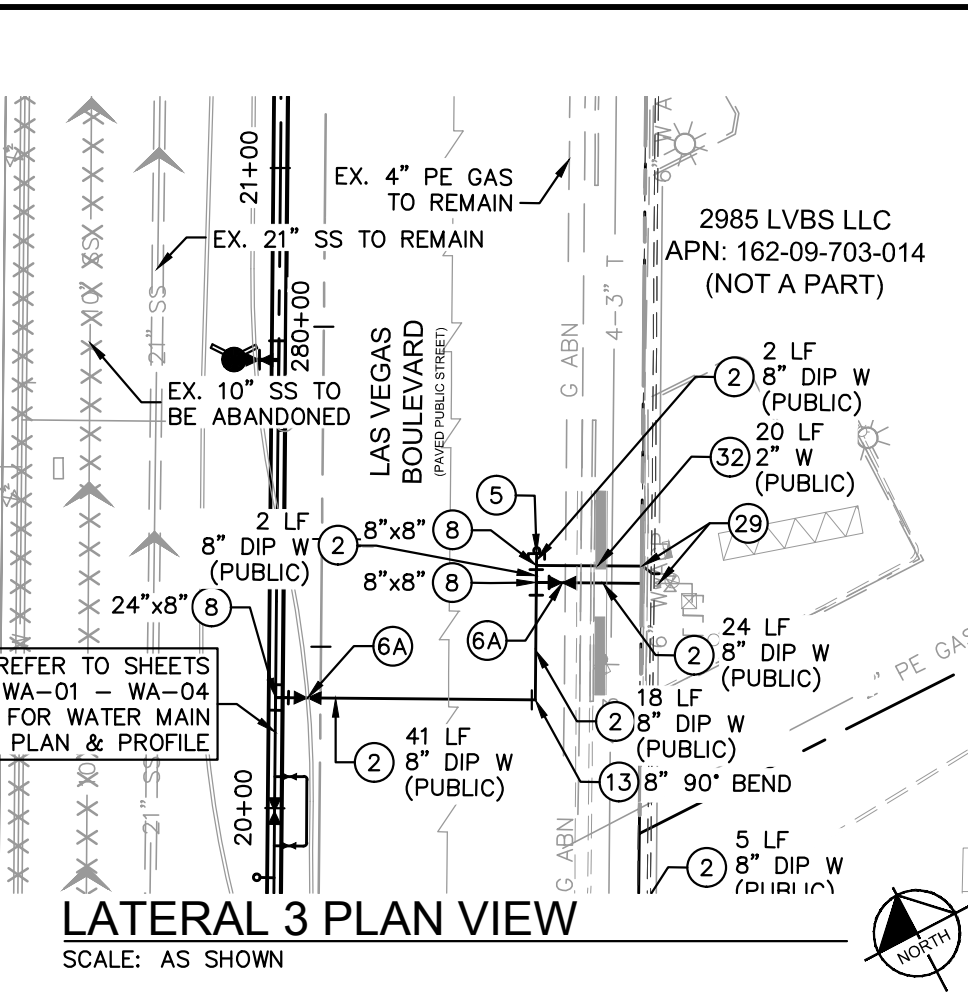
Plotted By: Loo-Sugrara, Kalilee - Sheet Set: KVA - LVA - CIVIL - 092755002 - Resorts World LV PHA - CAD - Plan Sheets - Big Alternates - 092755002 - WA - LVB.dwg
 This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



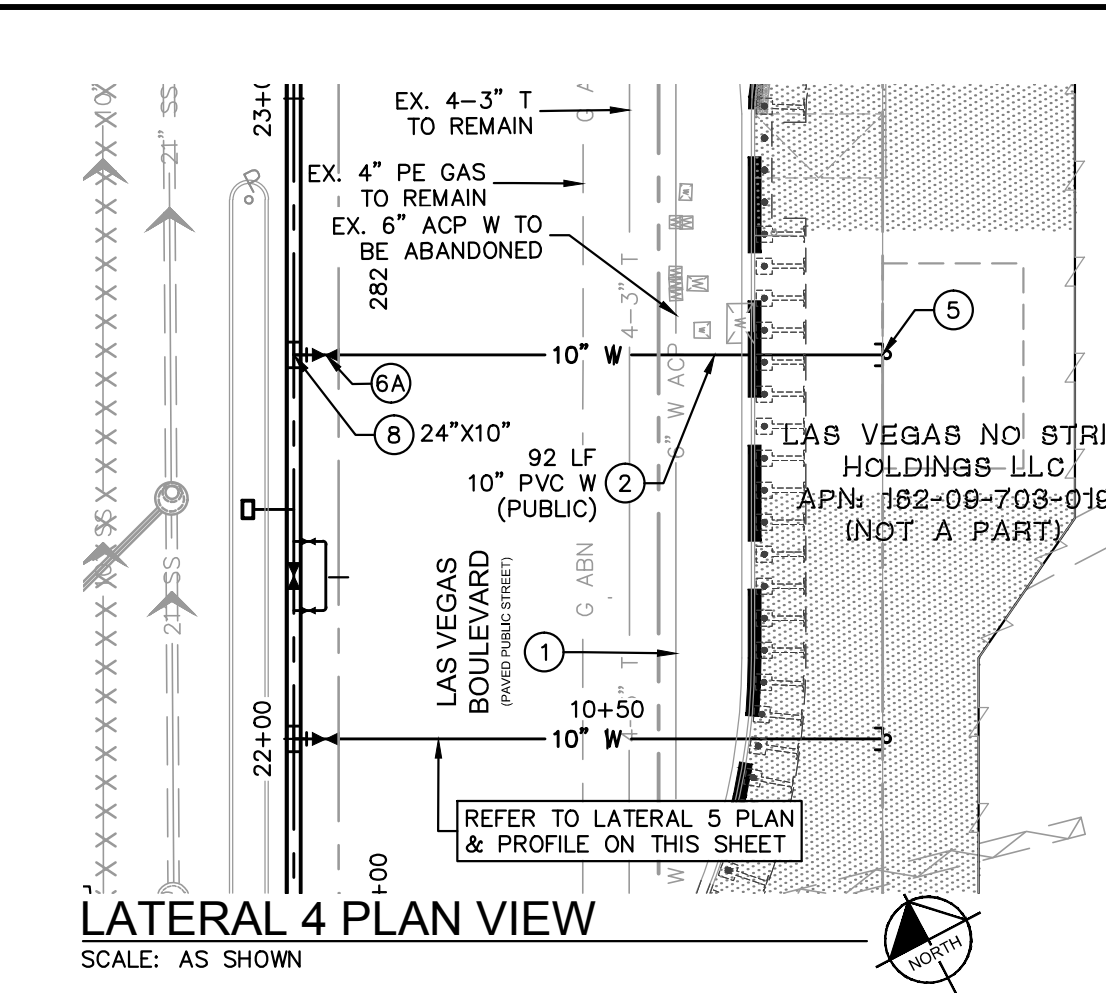
LATERAL 1 PLAN VIEW
SCALE: AS SHOWN



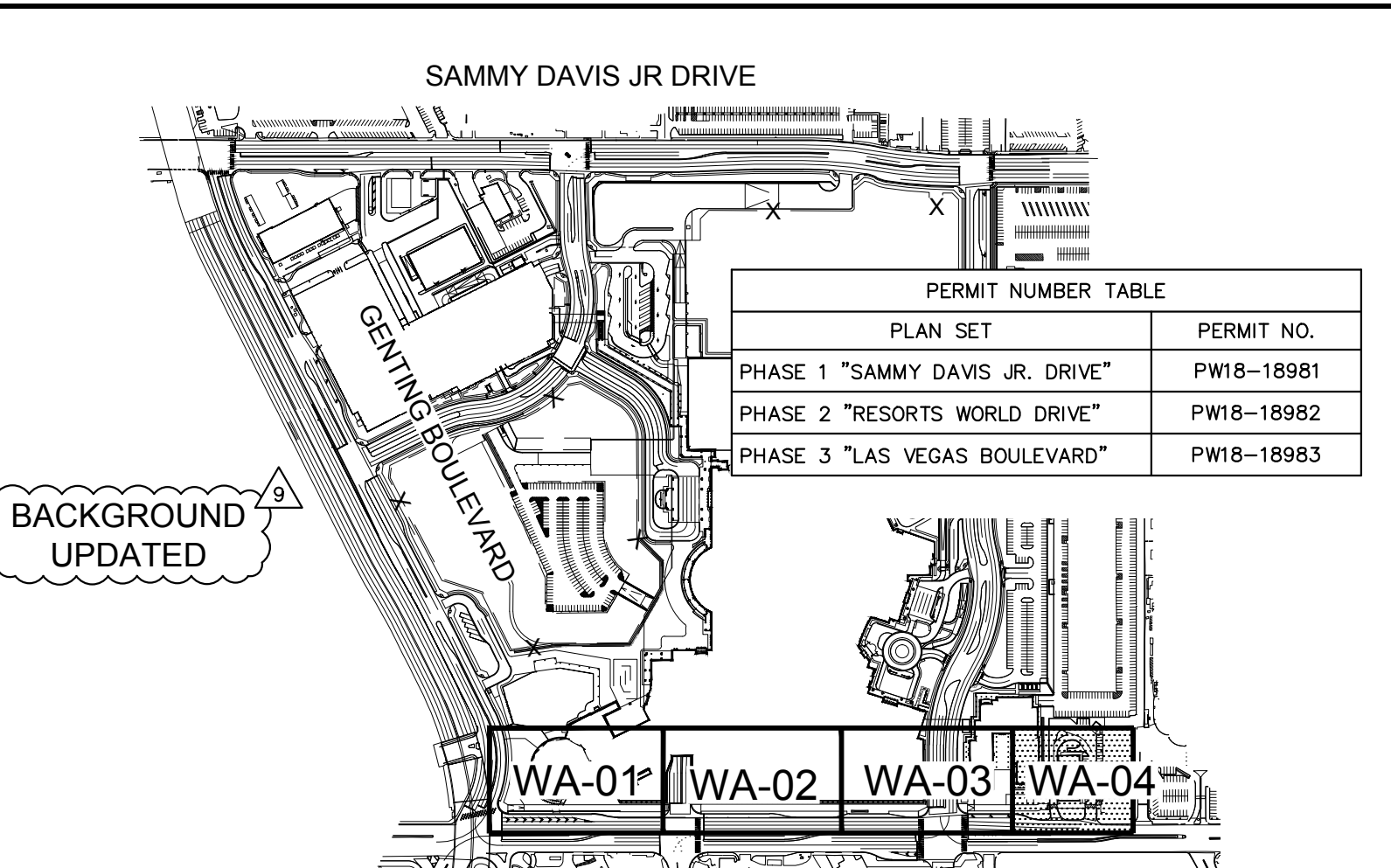
LATERAL 2 PLAN VIEW
SCALE: AS SHOWN



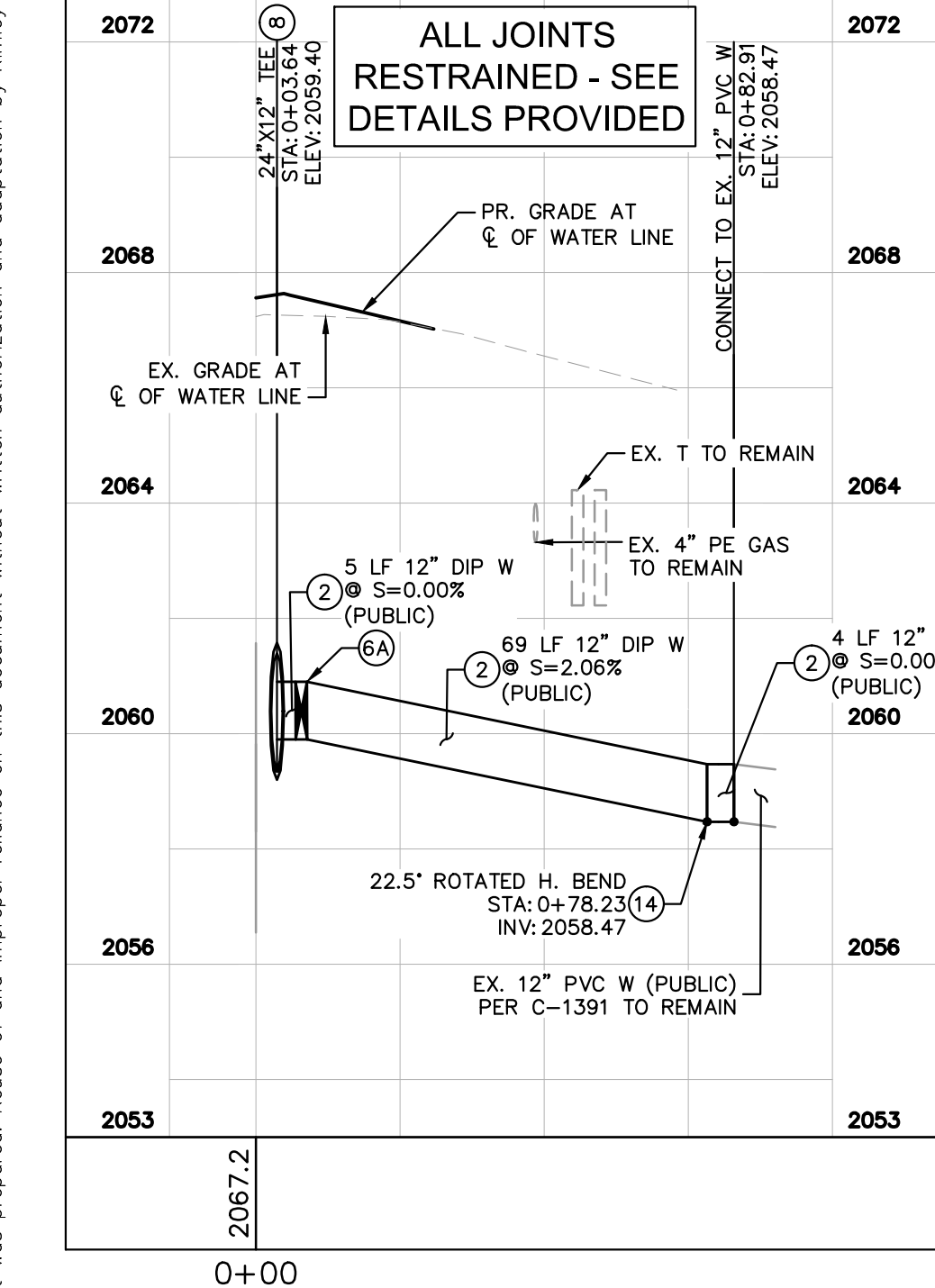
LATERAL 3 PLAN VIEW
SCALE: AS SHOWN



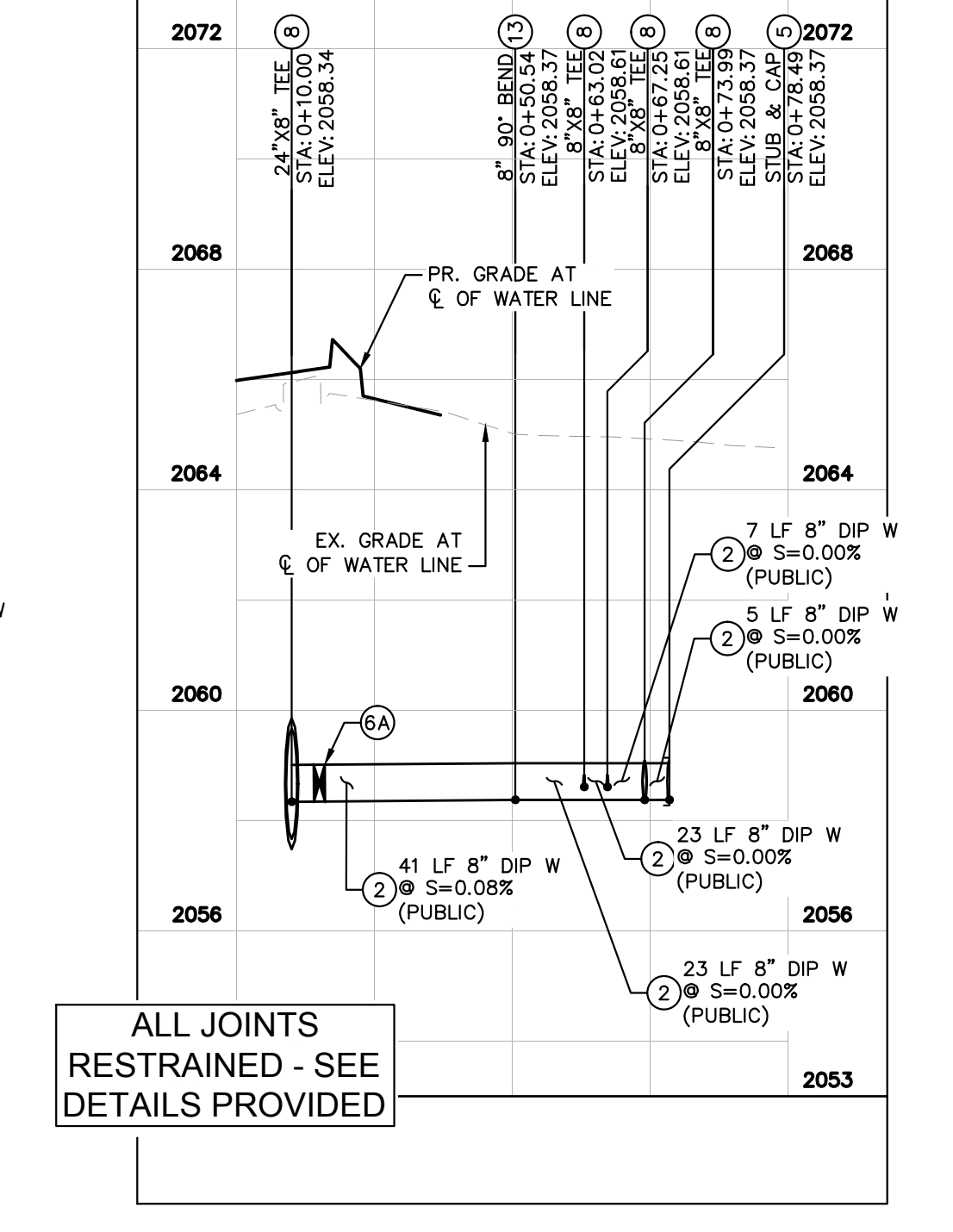
LATERAL 4 PLAN VIEW
SCALE: AS SHOWN



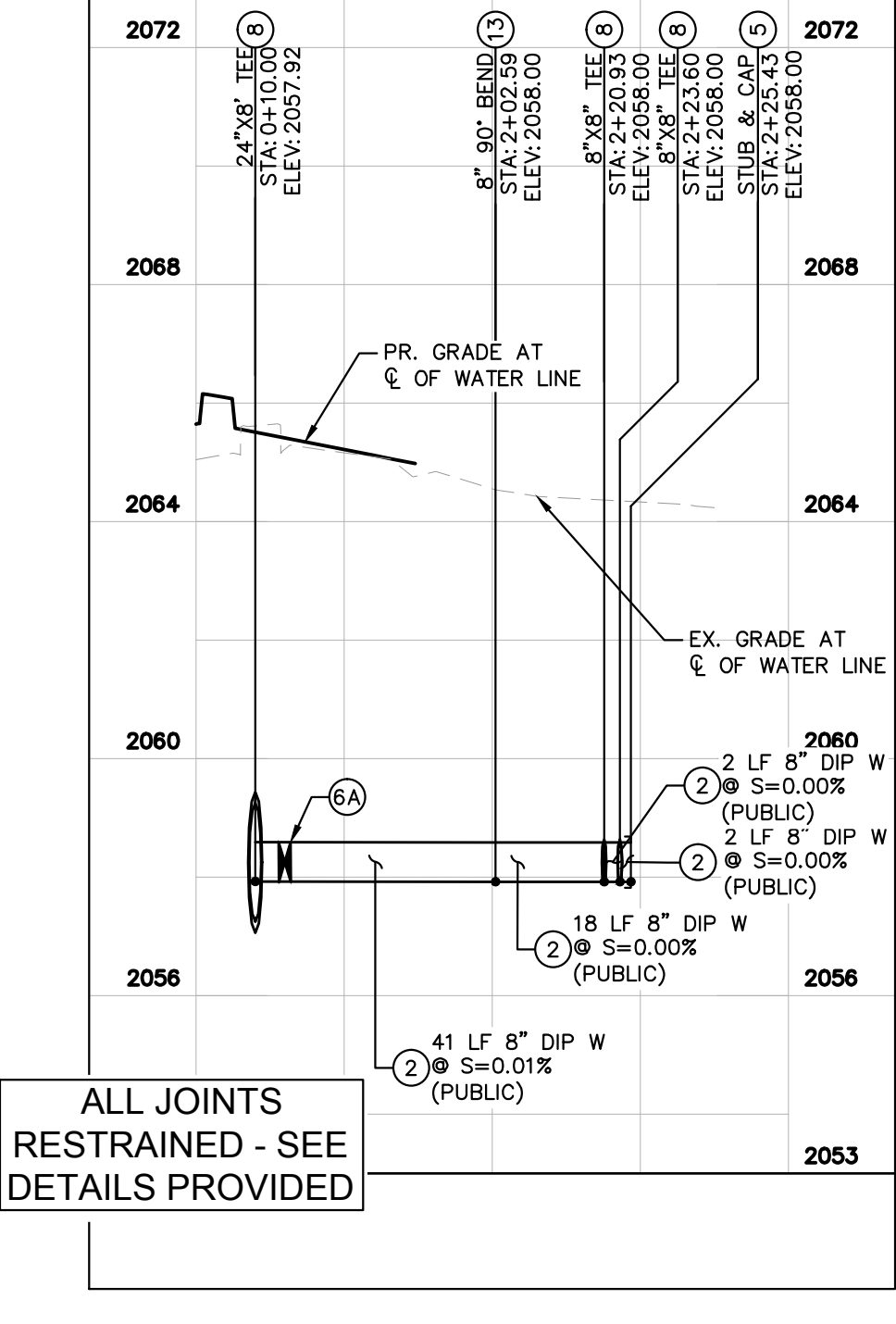
LATERAL 5 PLAN VIEW
SCALE: AS SHOWN



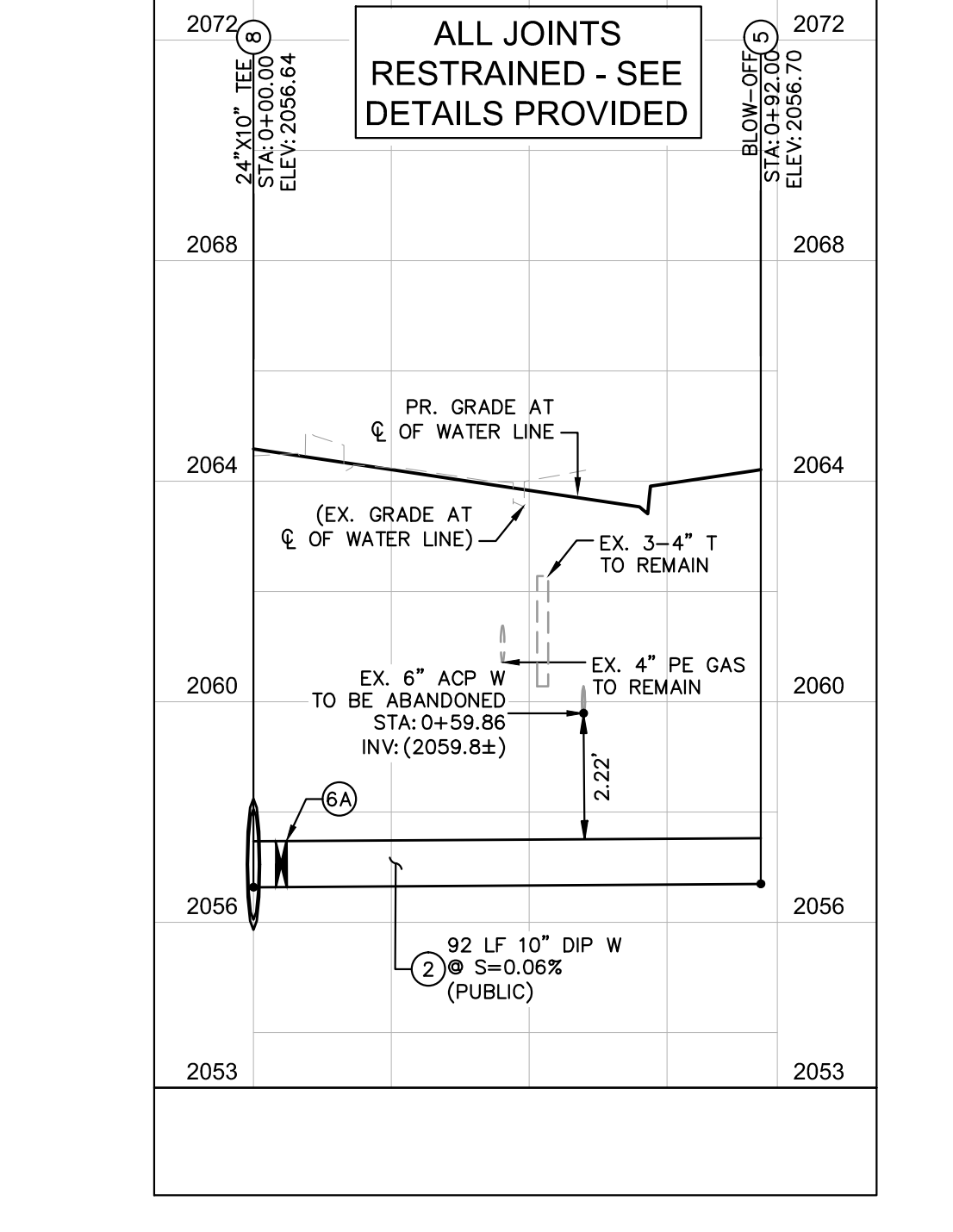
LATERAL 1 PROFILE



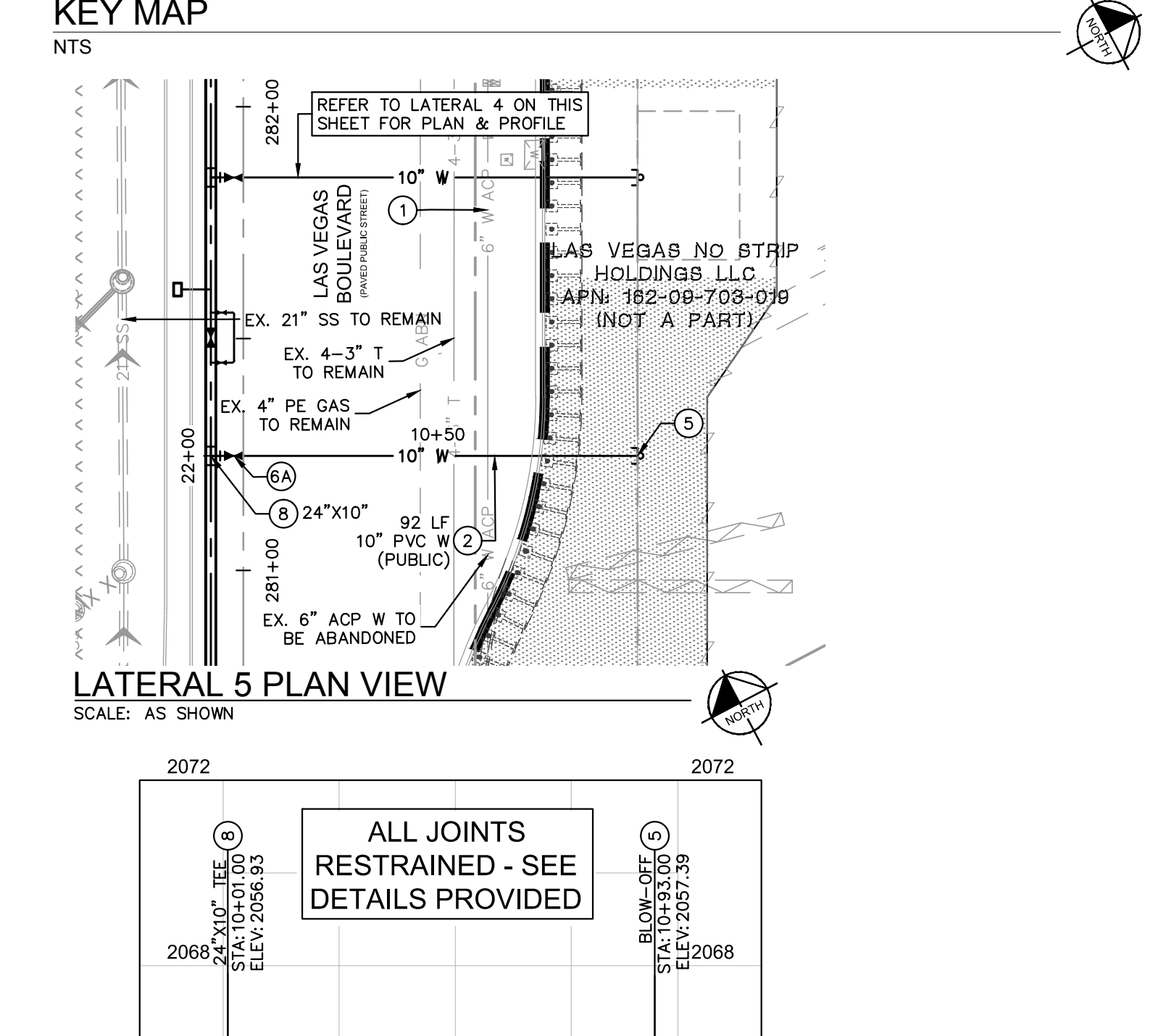
LATERAL 2 PROFILE



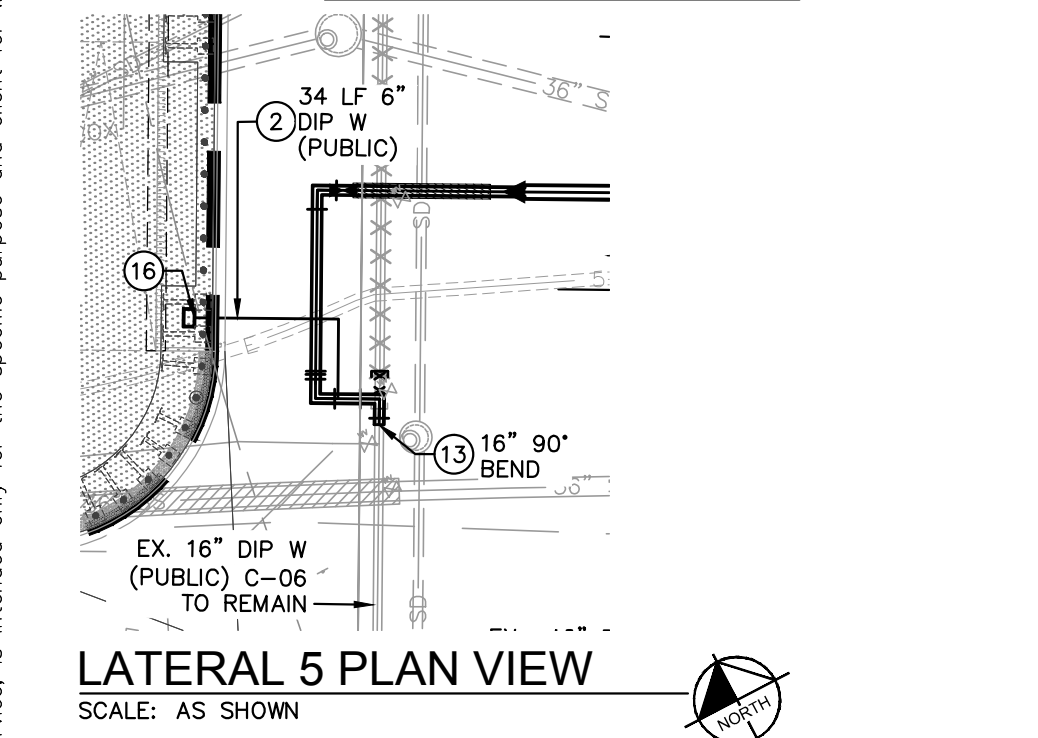
LATERAL 3 PROFILE



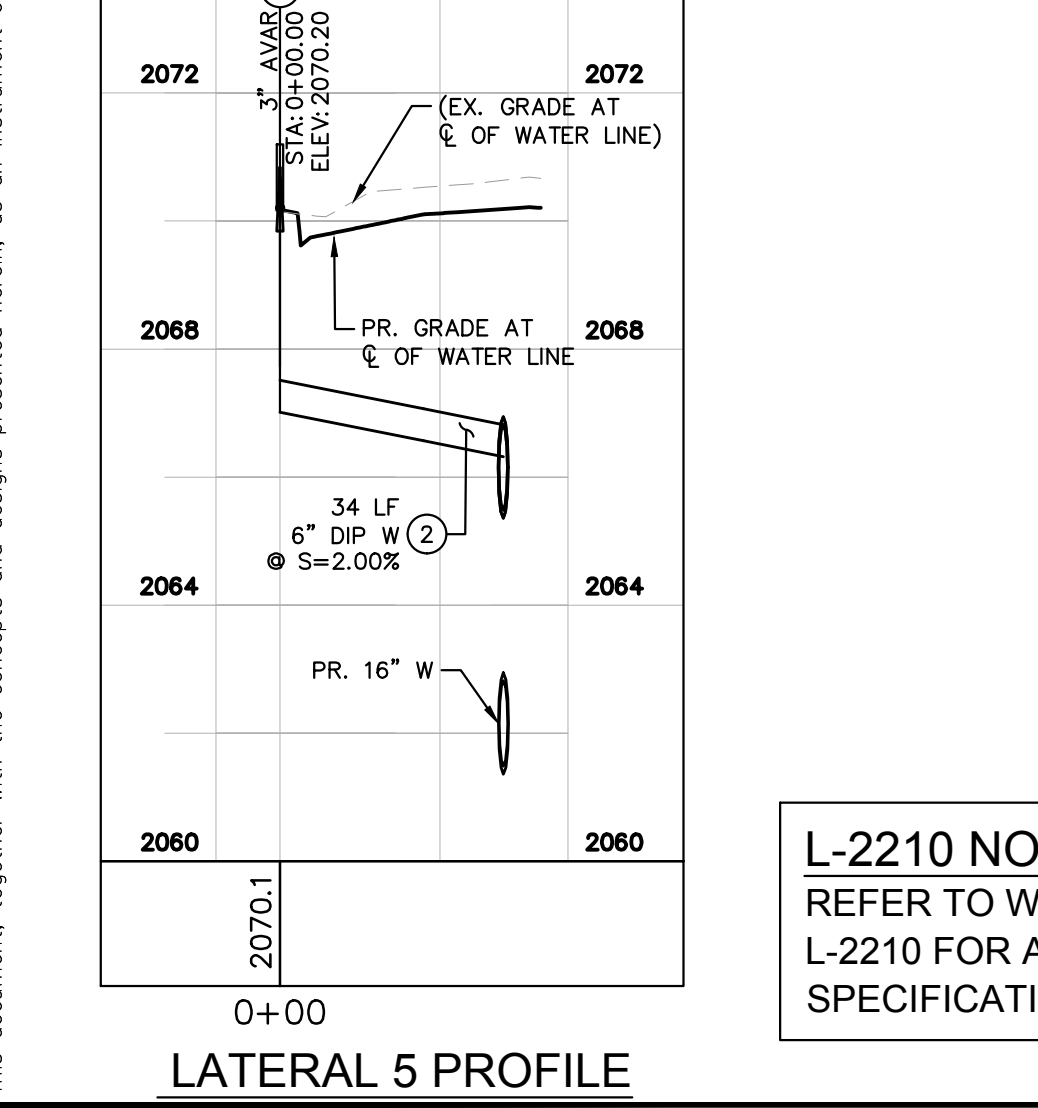
LATERAL 4 PROFILE



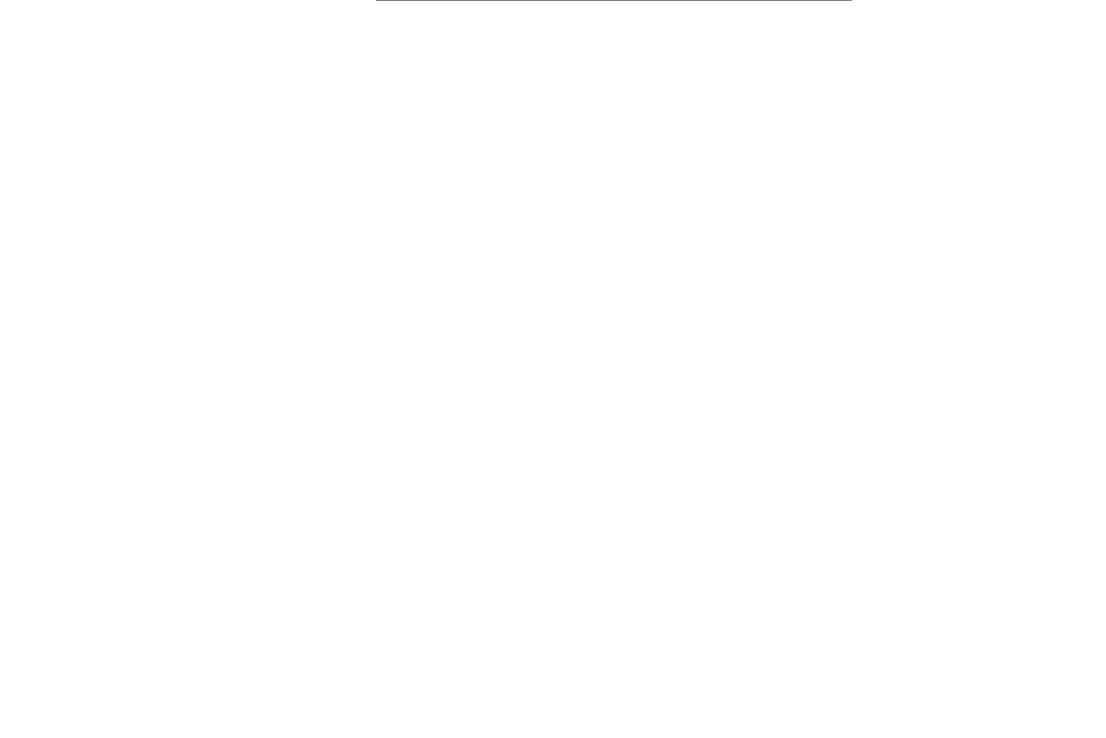
LATERAL 5 PROFILE



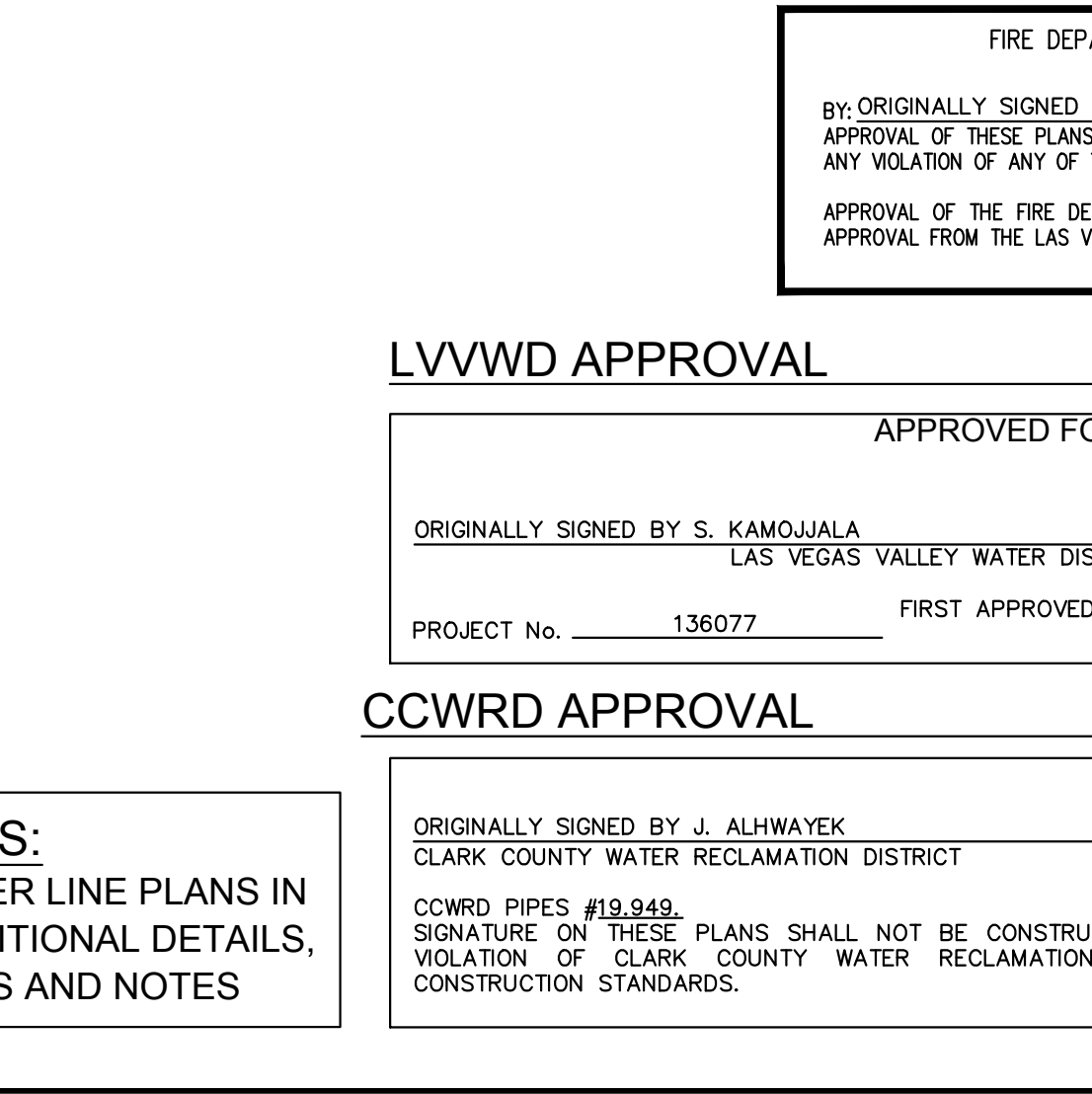
LATERAL 5 PLAN VIEW
SCALE: AS SHOWN



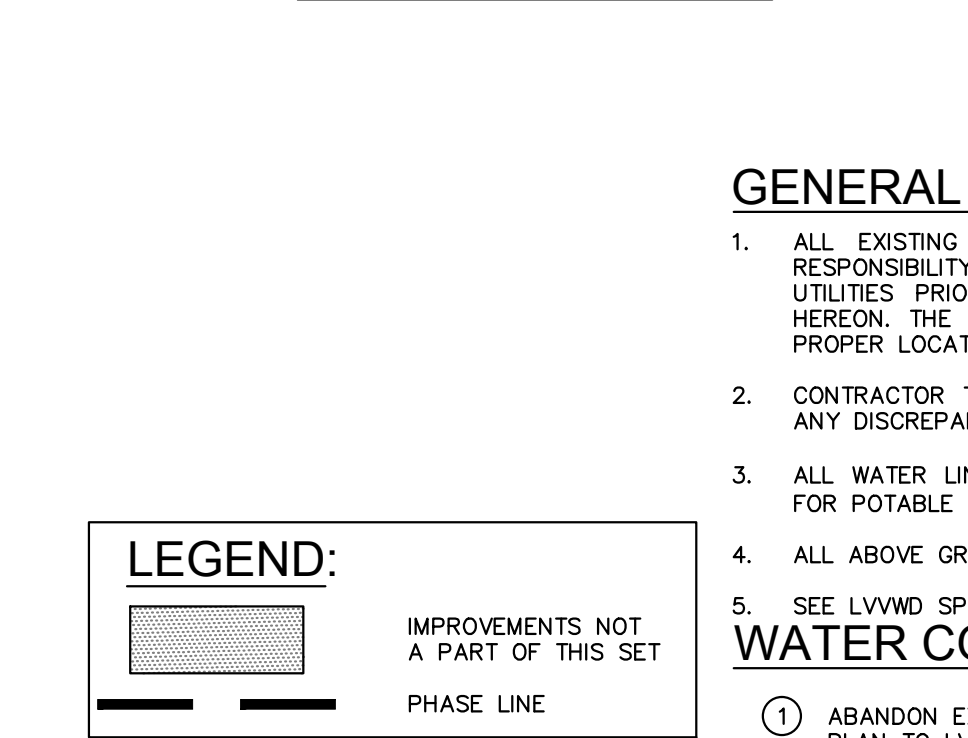
LATERAL 5 PROFILE



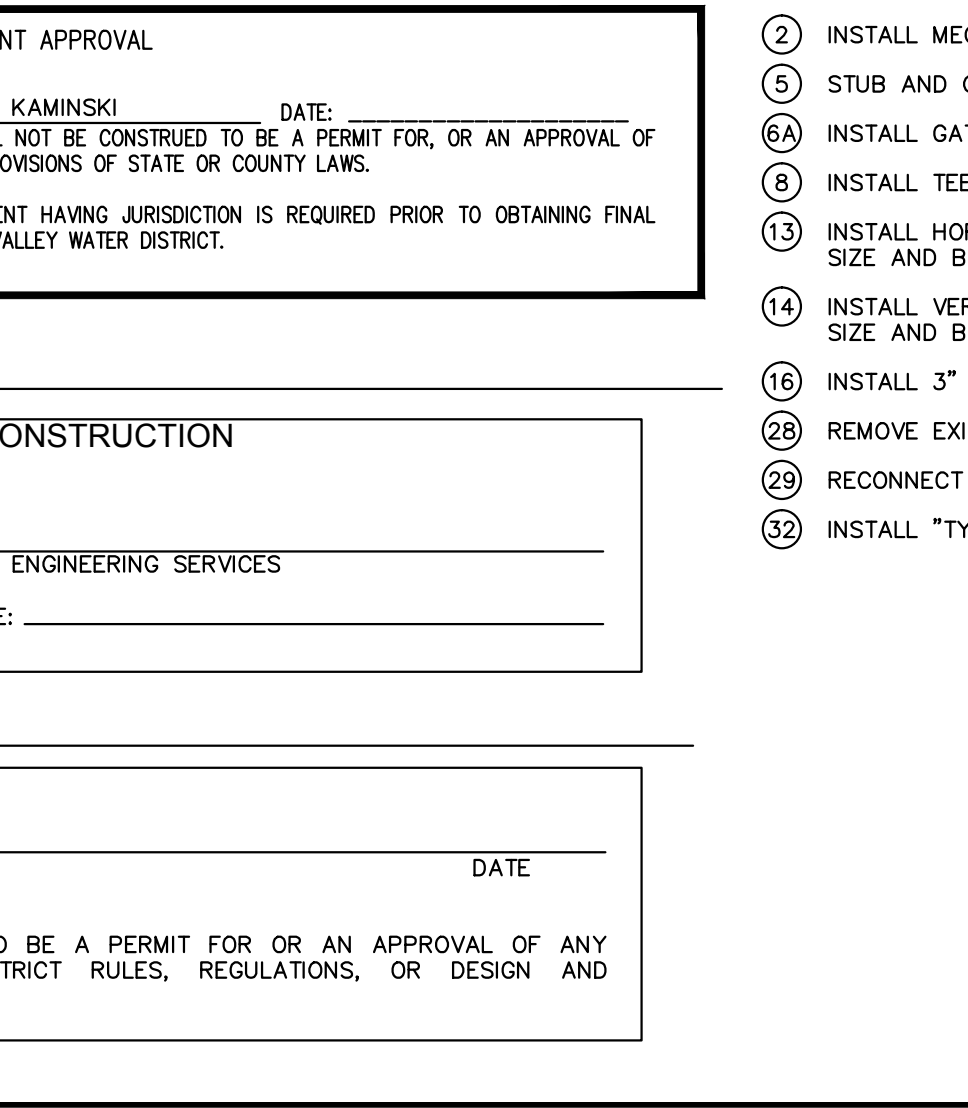
LATERAL 5 PLAN VIEW
SCALE: AS SHOWN



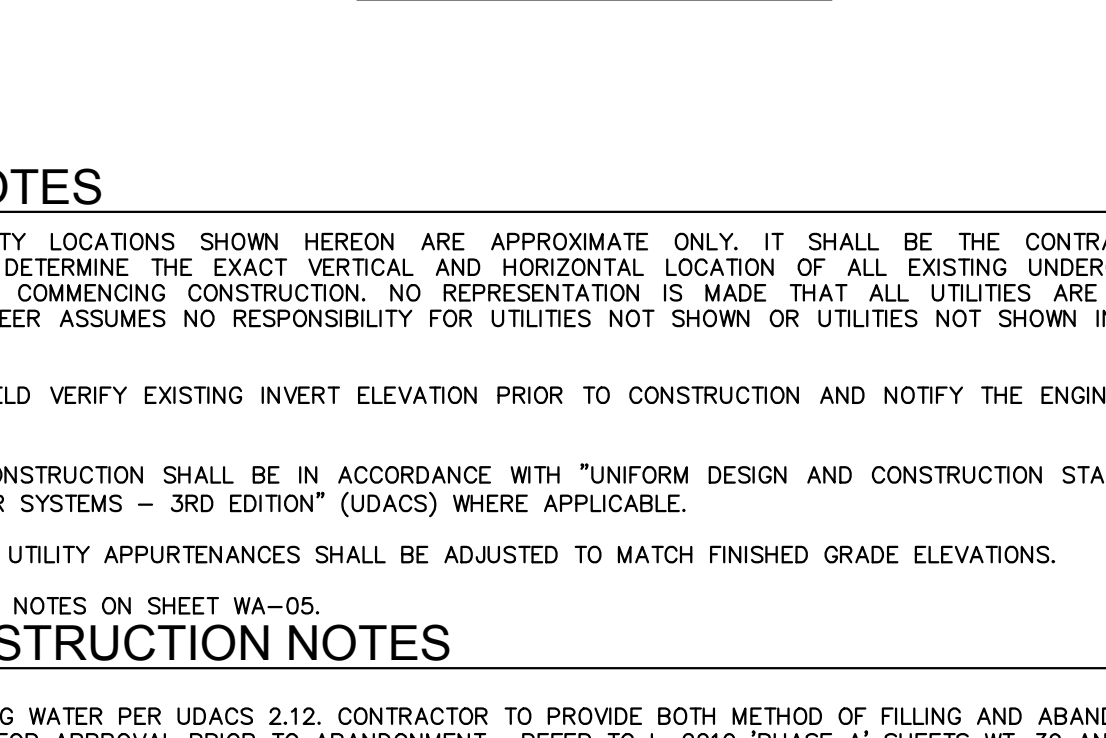
LATERAL 5 PROFILE



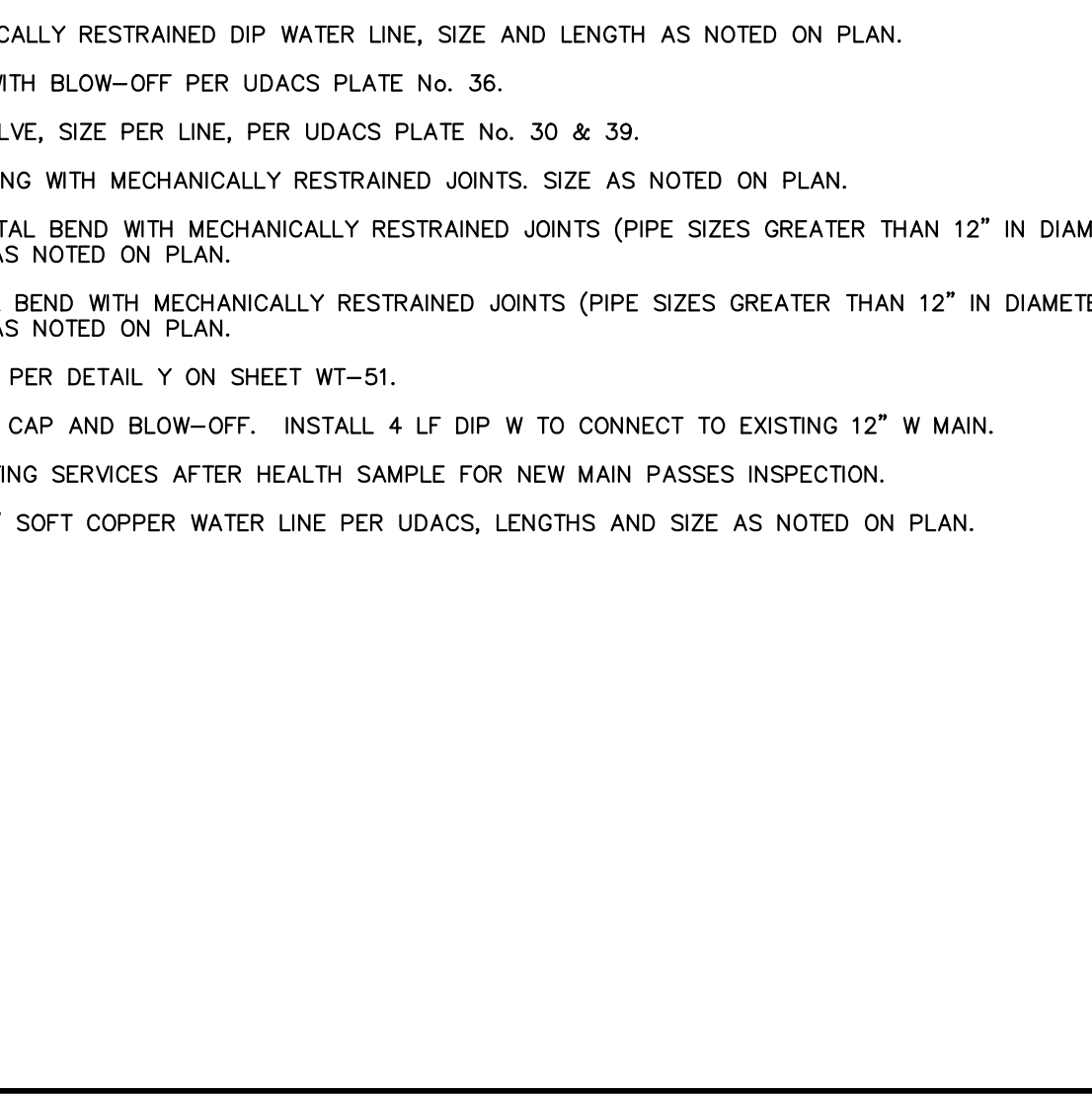
LATERAL 5 PLAN VIEW
SCALE: AS SHOWN



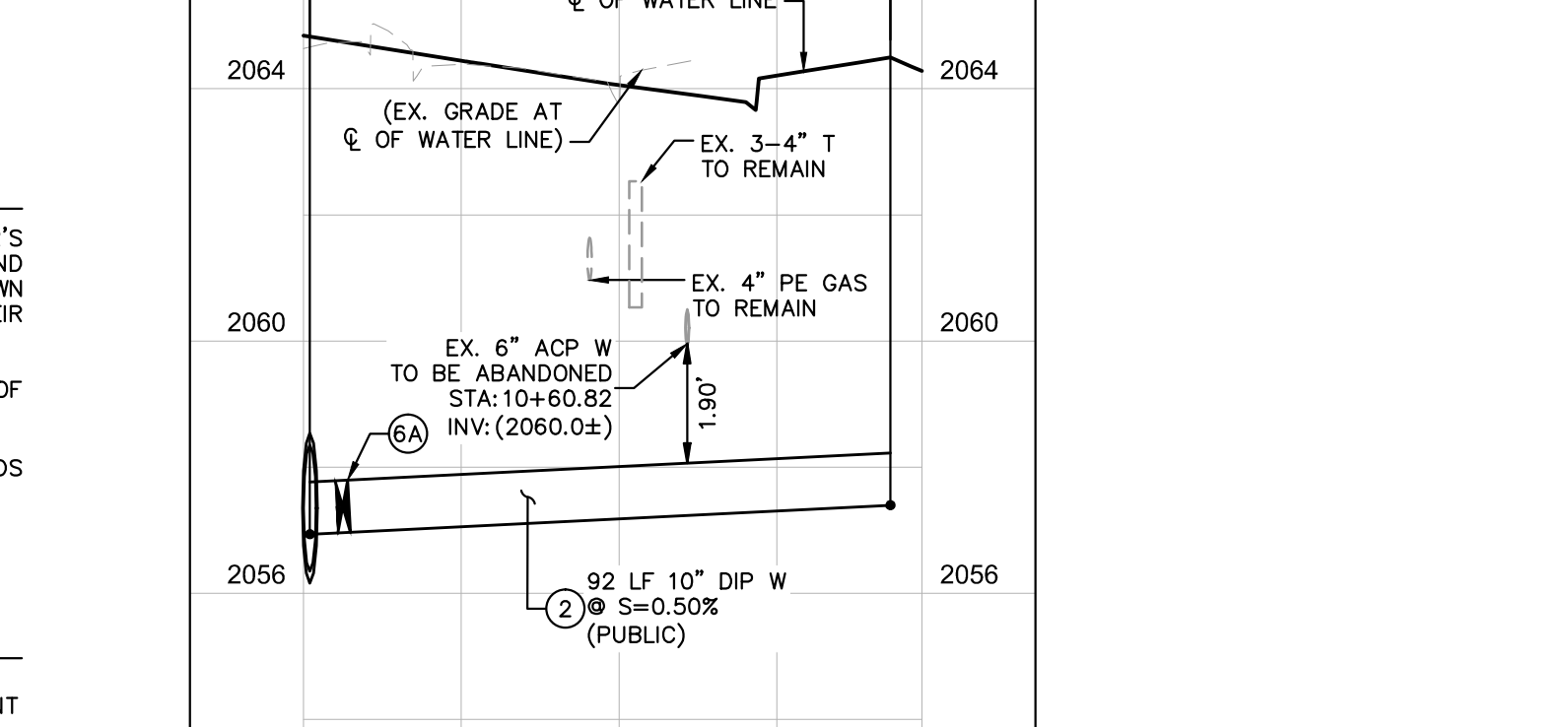
LATERAL 5 PROFILE



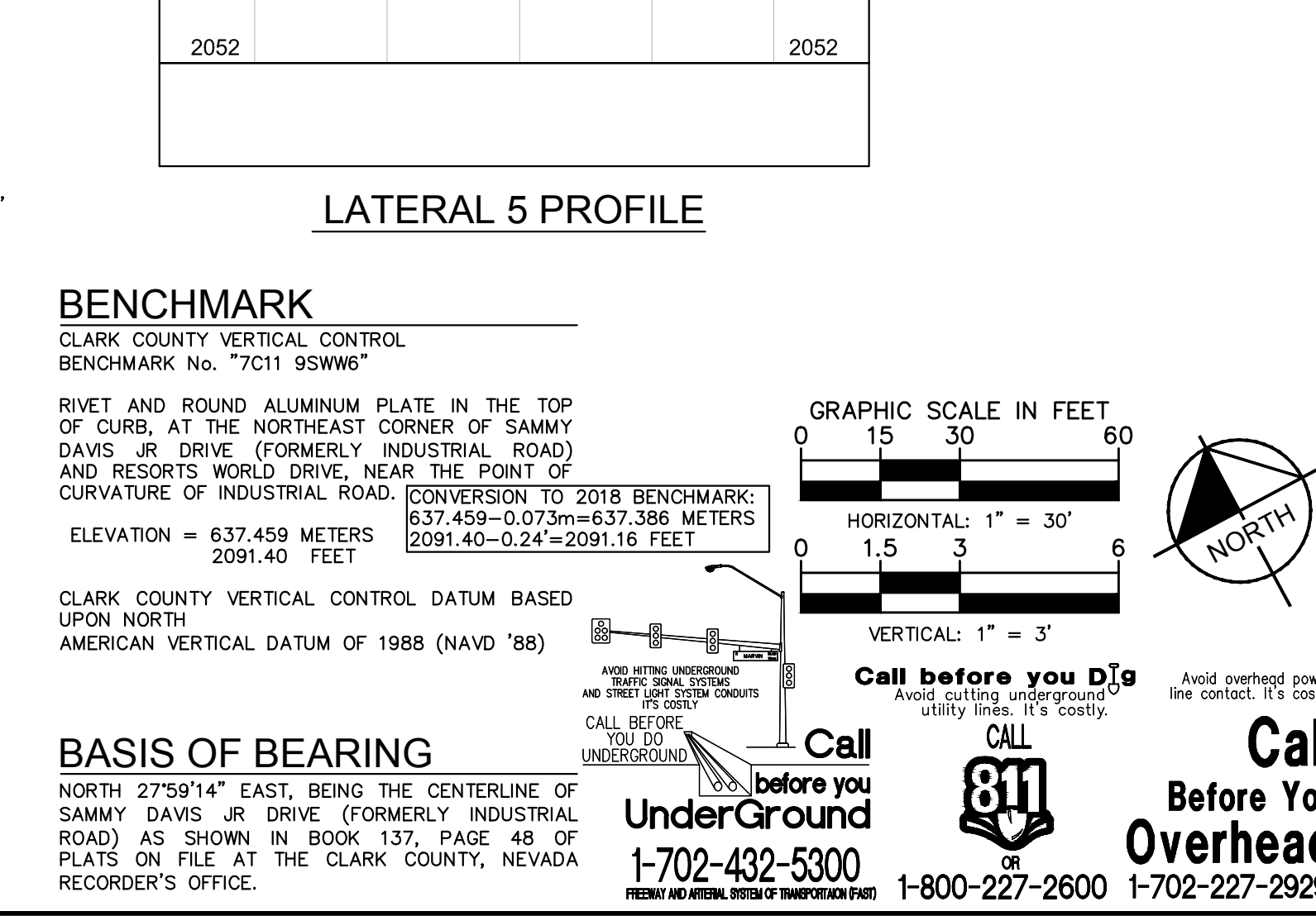
LATERAL 5 PLAN VIEW
SCALE: AS SHOWN



LATERAL 5 PROFILE



LATERAL 5 PLAN VIEW
SCALE: AS SHOWN



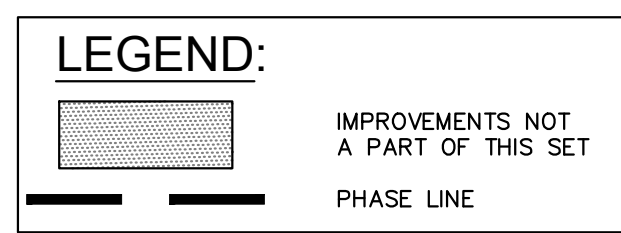
LATERAL 5 PROFILE

GENERAL NOTES

- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS - 3RD EDITION" (UDACS) WHERE APPLICABLE.
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
- SEE LVVWD SPECIFIC NOTES ON SHEET WA-05.

WATER CONSTRUCTION NOTES

- ABANDON EXISTING WATER PER UDACS 2.12. CONTRACTOR TO PROVIDE BOTH METHOD OF FILLING AND ABANDONMENT PLAN TO LVVWD FOR APPROVAL PRIOR TO ABANDONMENT. REFER TO L-2210 'PHASE A' SHEETS WT-39 AND WT-40 FOR ABANDONMENT PLANS.
- INSTALL MECHANICALLY RESTRAINED DIP WATER LINE, SIZE AND LENGTH AS NOTED ON PLAN.
- STUB AND CAP WITH BLOW-OFF PER UDACS PLATE No. 36.
- INSTALL GATE VALVE, SIZE PER LINE, PER UDACS PLATE No. 30 & 39.
- INSTALL TEE FITTING WITH MECHANICALLY RESTRAINED JOINTS, SIZE AS NOTED ON PLAN.
- INSTALL HORIZONTAL BEND WITH MECHANICALLY RESTRAINED JOINTS (PIPE SIZES GREATER THAN 12" IN DIAMETER), SIZE AND BEND AS NOTED ON PLAN.
- INSTALL VERTICAL BEND WITH MECHANICALLY RESTRAINED JOINTS (PIPE SIZES GREATER THAN 12" IN DIAMETER), SIZE AND BEND AS NOTED ON PLAN.
- INSTALL 3" AVAR PER DETAIL Y ON SHEET WT-51.
- REMOVE EXISTING CAP AND BLOW-OFF. INSTALL 4 LF DIP W TO CONNECT TO EXISTING 12" W MAIN.
- RECONNECT EXISTING SERVICES AFTER HEALTH SAMPLE FOR NEW MAIN PASSES INSPECTION.
- INSTALL "TYPE K" SOFT COPPER WATER LINE PER UDACS, LENGTHS AND SIZE AS NOTED ON PLAN.



FIRE DEPARTMENT APPROVAL

BY: ORIGINALLY SIGNED BY E. KAMINSKI DATE: _____
 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY S. KAMOUJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136077 FIRST APPROVED DATE: _____

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES #19,949.
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

DATE: _____

L-2210 NOTES:
 REFER TO WATER LINE PLANS IN L-2210 FOR ADDITIONAL DETAILS, SPECIFICATIONS AND NOTES

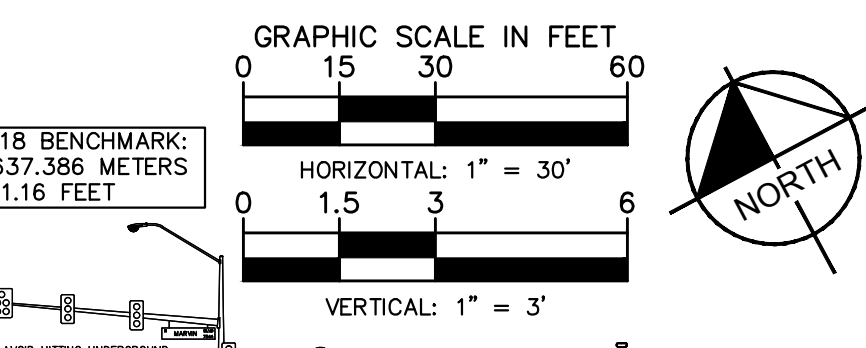
BENCHMARK

CLARK COUNTY VERTICAL CONTROL BENCHMARK No. "7C11 95W6"

RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, AT THE NORTHEAST CORNER OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AND RESORTS WORLD DRIVE, NEAR THE POINT OF CURVATURE OF INDUSTRIAL ROAD.

ELEVATION = 637.459 METERS
 2091.40 - 0.24 = 2091.16 FEET

CLARK COUNTY VERTICAL CONTROL DATUM BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



BASIS OF BEARING

NORTH 27°59'14" EAST, BEING THE CENTERLINE OF SAMMY DAVIS JR DRIVE (FORMERLY INDUSTRIAL ROAD) AS SHOWN IN BOOK 137, PAGE 48 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

Call before you Dig
 1-702-432-5300

Call before you Overhead
 1-800-227-2600

811

Kimley-Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

THOMAS ACKERT
 CIVIL ENGINEER
 Exp. 12/31/22
 License No. 18592

12/30/2020

KHA PROJECT 092755002
 DATE 10/23/2019
 SCALE AS SHOWN
 DESIGNED BY TEA
 DRAWN BY SIM
 CHECKED BY RAM

LAS VEGAS BLVD WATER MAIN PLAN & PROFILE

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC

NEVADA CLARK COUNTY

ISSUED FOR CONSTRUCTION

18-10624 (TDS UPDATE), 19-13865 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE), PH 3-PW18-18983

SHEET NUMBER WA-04A

SHEET 325 OF 345

Plotted By: Runaligon, Meridisa, Sheet, Scti:Kha, Layout: S5.01, K:\PHX_Structure\092755002-RWLV_Tunnel_Structural\Cad\Plan_Sheets\092755002-Approach_Slab.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

I - GENERAL

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS.
- NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE, VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION OR THE SCOPE OF THE CONTRACT.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY, THE ARCHITECT'S OR ENGINEER'S PRESENCE, OR REVIEW OF THE WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTORS MEANS OR METHODS OF CONSTRUCTION.
- SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTORS. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS AND STRUCTURES.

II - FOUNDATION

- DESIGN INCLUDES SEISMIC LOADING PER THE FOLLOWING DESIGN DATA:

SITE CLASS: C
 SEISMIC DESIGN CATEGORY: C
 RISK CATEGORY: III
 DEAD LOAD - WEIGHT OF BACKFILL = 130 PCF
 EQUIVALENT FLUID PRESSURE FOR ACTIVE SOIL PRESSURE = 35PCF
 EQUIVALENT FLUID PRESSURE FOR PASSIVE SOIL PRESSURE = 350PCF
 SURCHARGE PRESSURE FOR ACTIVE SOIL PRESSURE = 0.27×95 = $0.27 \times (2FT \text{ OF FILL})$
 SEISMIC PRESSURE AT TOP OF WALL = $14.0 \times (H)$
 SEISMIC PRESSURE AT BOTTOM OF WALL = $3.5 \times (H)$
 ALLOWABLE BEARING PRESSURE = 2500 PSF
 FRICTION COEFFICIENT = 0.25

- CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE.
- CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND ANY EXISTING STRUCTURE.
- EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED.
- ALL EARTHWORK, COMPACTION AND SUB-GRADE MATERIAL FOR APPROACH SLABS SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

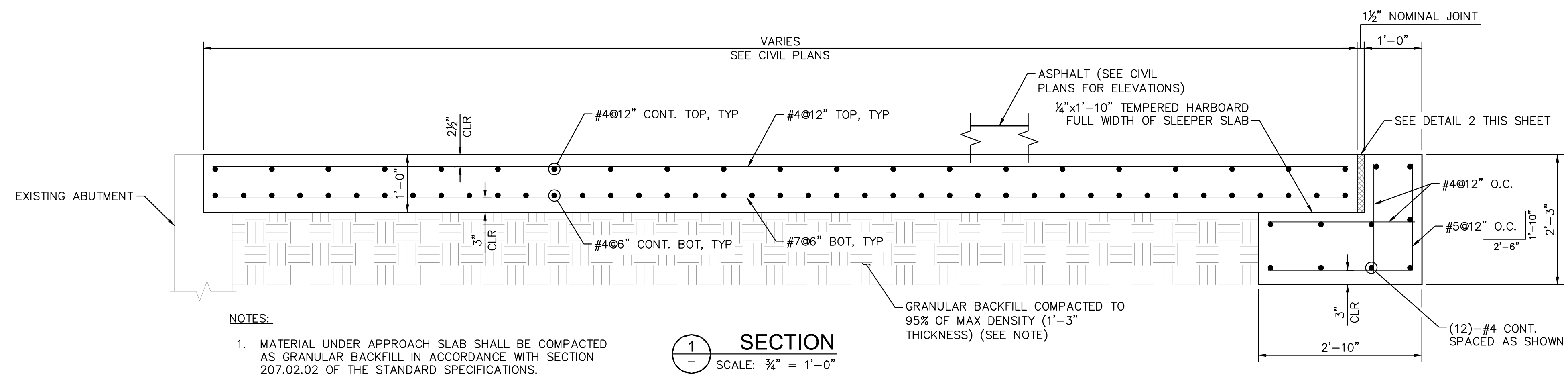
III - CONCRETE

- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE,' ACI 318 AND THE 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS,' ACI 301, LATEST EDITIONS, WITH MODIFICATIONS AS NOTED ON THE DESIGN DRAWINGS OR SPECIFICATIONS.
- CONCRETE MIXES SHALL HAVE A WATER-CEMENT RATIO OF 0.45 AND BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BEAR THE WET SEAL OF A CIVIL ENGINEER LICENSED IN THE STATE OF THE PROJECT FOR REVIEW BY THE STRUCTURAL ENGINEER. THE MIX DESIGNS SHALL STATE THE PROJECT NAME AND THE INTENDED USAGE OF THE CONCRETE.
- MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-460 SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 19.2.2 OF ACI 318 FOR THE SPECIFIED 28-DAY STRENGTH.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES:

LOCATION	STRENGTH (PSI)	TYPE
*APPROACH SLABS	4500	HARD ROCK
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE V, CONCRETE EXPOSED TO SOILS CONTAINING SULFATES SHALL COMPLY WITH IBC SECTION 1904.1 & ACI 318 CHAPTER 4.
- CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND THE LOSS OF IGNITION SHALL BE LIMITED TO 2%. THE WEIGHT OF FLY ASH SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH CONFORMS TO THE ABOVE CRITERIA.
- CONCRETE MIXING OPERATIONS, ETC, SHALL CONFORM TO ASTM C-94.
- AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- FORMS FOR CONCRETE SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS SHOWN ON THE DRAWINGS.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
- REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER OF 2", U.O.N. IN DRAWINGS:
 - CONCRETE POURED AGAINST EARTH SHALL HAVE MIN CLEAR COVER OF 3".
 - CLEAR COVER SHALL BE CLEARLY SHOWN ON ALL REBAR SHOP DRAWINGS.
- ALL REINFORCEMENT, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURELY HELD IN POSITION WHILE PLACING CONCRETE IF NECESSARY, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT
- LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO DETAILING OF REINFORCING. ALL CONSTRUCTION JOINTS TO BE CLEARLY SHOWN IN REBAR DETAIL DRAWINGS. ENGINEER MAY REQUIRE ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS.

IV - REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318) AND THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' BY CRSI AND WCRSI, AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
- DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60, UNLESS NOTED OTHERWISE.
- FOR A615 REINFORCEMENT:
 - *THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PSI) AND
 - *THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
- WELDING OF REINFORCING SHALL BE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH 'RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL,' ETC. AMERICAN WELDING SOCIETY, AWS D1.4.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREAT.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE SPECIFIED VERTICAL REINFORCING, U.N.O.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.
- SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR INFORMATION ONLY. ANY PROPOSED CHANGES TO REINFORCING STEEL, SUCH AS SIZE, LOCATION AND SPACING DIFFERENT FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEERS ATTENTION THROUGH THE RFI PROCESS AND APPROVED PRIOR TO CONSTRUCTION. THE REBAR SHOP DRAWINGS SHALL NOT REPLACE DESIGN DOCUMENTS FOR CONSTRUCTION OR FILED INSPECTION.



V - SPECIAL INSPECTIONS

SPECIAL INSPECTION IS REQUIRED DURING THE FOLLOWING OPERATIONS PER 2018 IBC SECTION 1704:

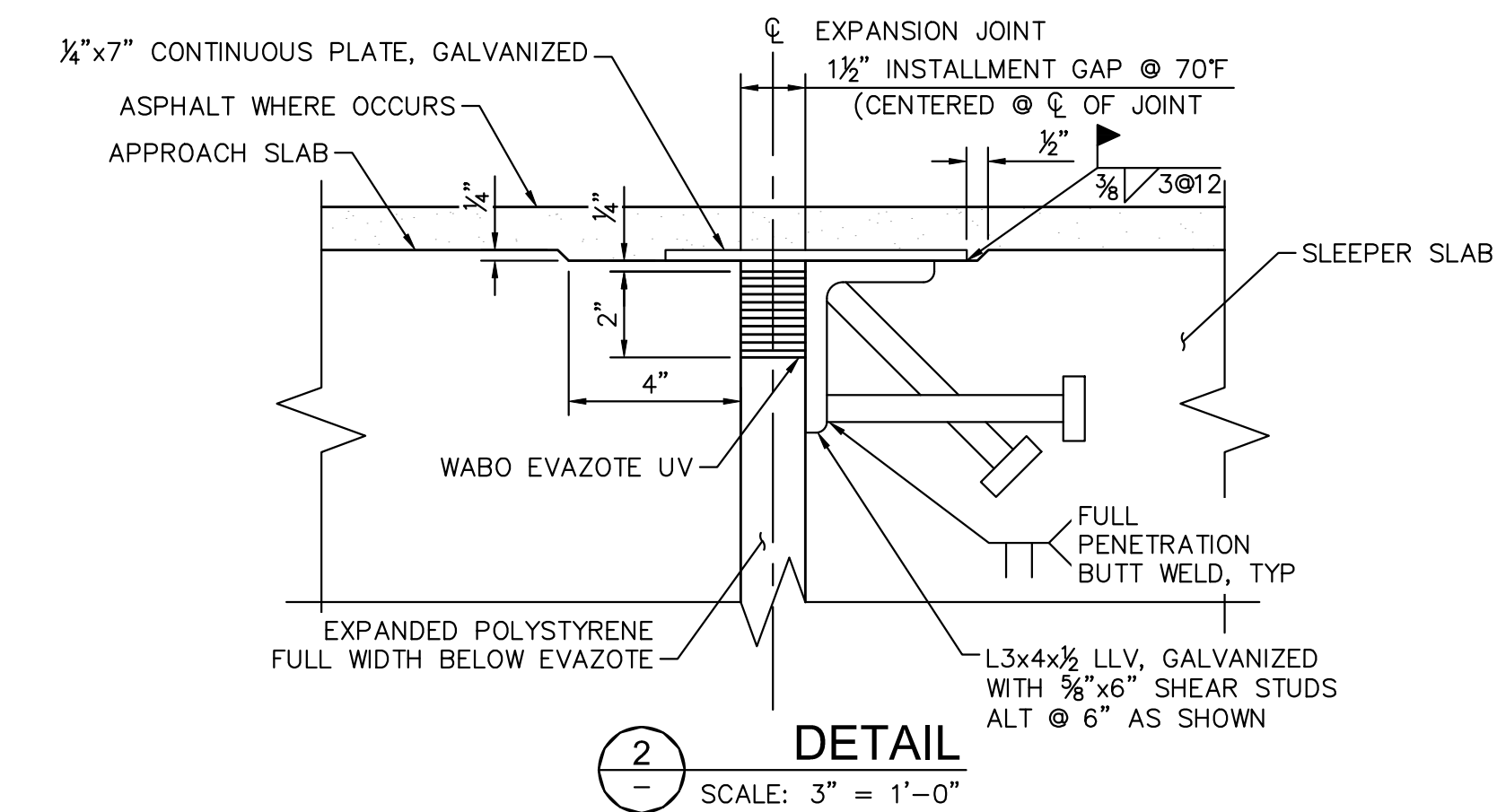
- REINFORCING STEEL PLACEMENT - PERIODIC
- GROUT - CONTINUOUS
- CONCRETE PLACEMENT - CONTINUOUS
- CONCRETE STRENGTH - CONTINUOUS
- CONCRETE CURING - PERIODIC

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- UPON COMPLETION OF THE ASSIGNED WORK, THE ENGINEER SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
- INSPECTIONS SHALL BE PERFORMED BY AN ICC CERTIFIED INSPECTOR APPROVED BY THE CLARK COUNTY EMPLOYED BY THE OWNER/DEVELOPER.
- SPECIAL INSPECTION OF FILL AROUND THE APPROACH SLAB SHALL BE PROVIDED AT THE FREQUENCY NECESSARY TO ENSURE THAT PROPER FILL AND COMPACTION IS ACHIEVED. COMPACTION TEST FOR EACH LIFT SHALL BE TAKEN PER CONSTRUCTION SPECIFICATION SECTION 203.05.02. THE SPECIAL INSPECTOR SHALL SUBMIT A COMPLIANCE REPORT TO THE OWNER/DEVELOPER AND STRUCTURAL ENGINEER DOCUMENTING FILL TYPE AND PLACEMENT PROCEDURE.

DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:

- FOR INSPECTION OF CONCRETE, BOLTS IN CONCRETE, REINFORCING STEEL, EXPANSION BOLTS, AND ADHESIVE ANCHORS, NOTIFY THE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM BEFORE SUCH INSPECTION IS REQUIRED).
- ALL WORK REQUIRING SPECIAL STRUCTURAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT IS OBSERVED BY THE SPECIAL STRUCTURAL INSPECTOR.



EXPANSION JOINT NOTES:

- THE EXPANSION JOINT MUST BE INSTALLED PER MANUFACTURER'S CURRENT PUBLISHED INSTALLATION PROCEDURE.
- EXPANSION JOINT IS CONTINUOUS ALONG THE LENGTH OF THE APPROACH SLAB.
- FIELD GALVANIZE WELDS.

NO.	REVISIONS	DATE	BY
10	LVB-GENTING INTERSECTION	4/7/2021	KH
4	REVISED PER REVISION No. 4	2/18/2020	KH
2	REVISED PER REVISION No. 2	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

04/20/2022
 KHA PROJECT 092755002
 DATE 04/20/2021
 SCALE AS SHOWN
 DESIGNED BY CHG
 DRAWN BY MR
 CHECKED BY DL

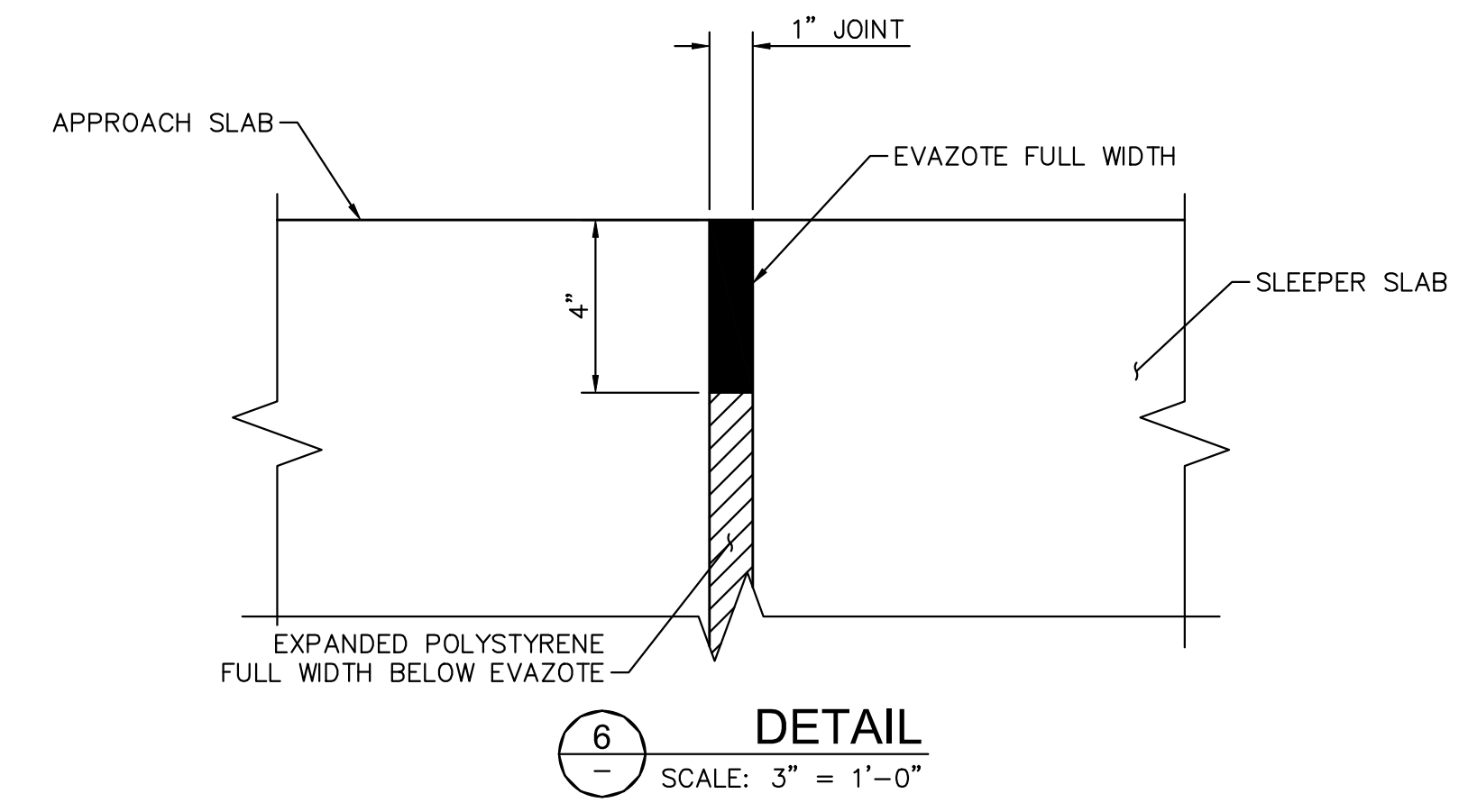
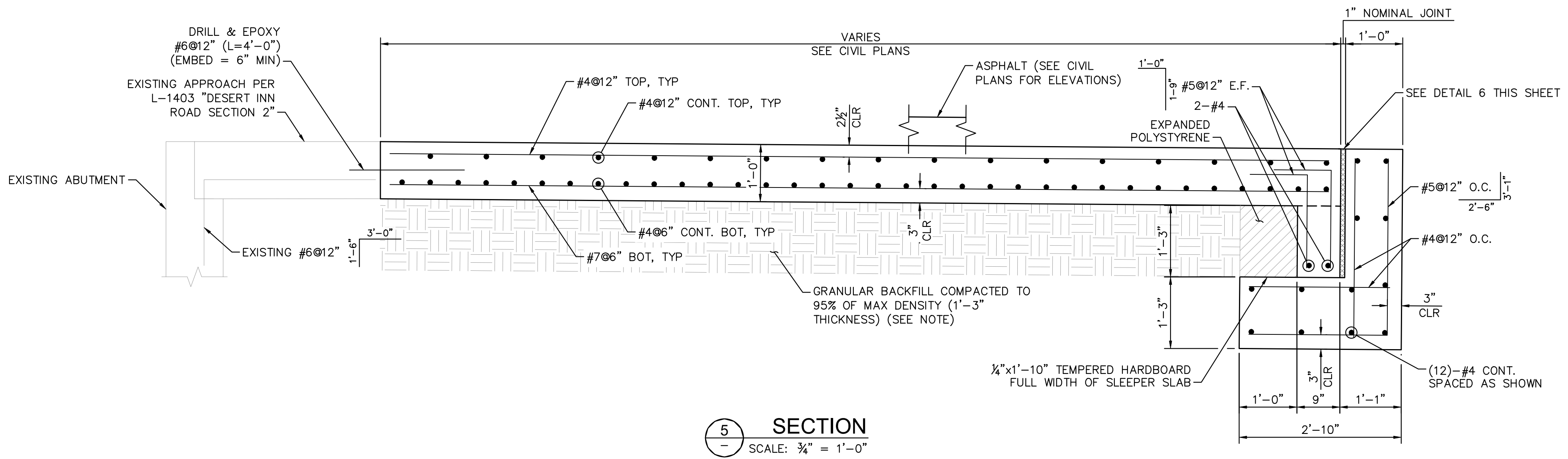
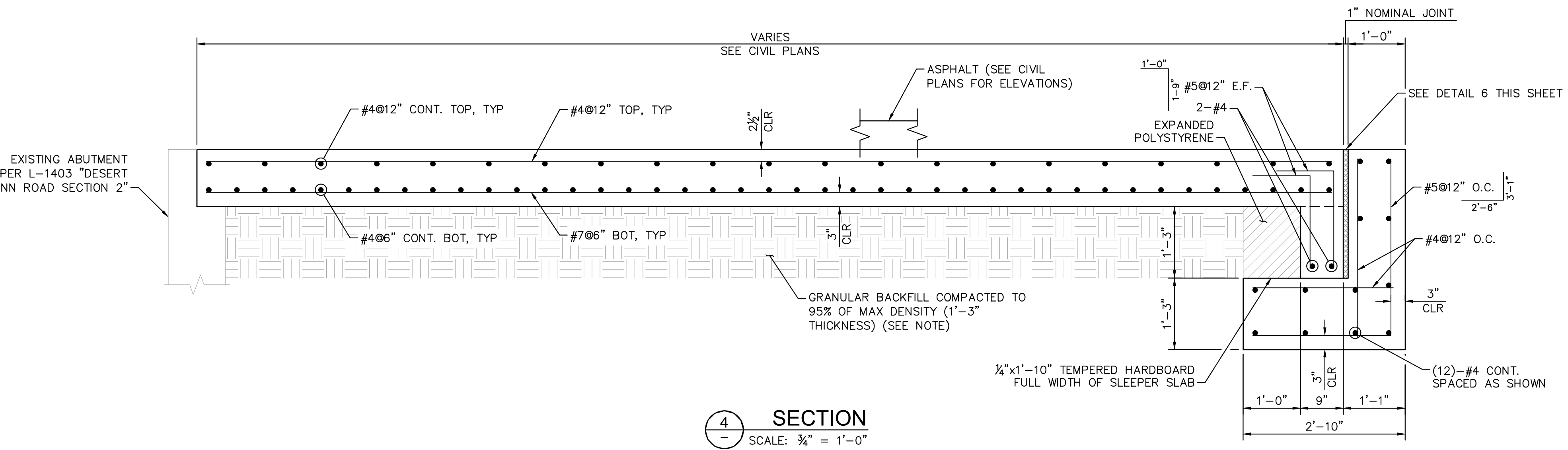
**APPROACH SLAB
DETAILS**

**RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY, NEVADA**

SHEET NUMBER
S5.01

Call before you dig
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

Plotted By: Runolfsson, Merissa_Sheet_Sett:Kha_Layout:55.02_K:\PHY_Structure\092755002-RWL_V_Tunnel_Structural\Cad\Plan_Sheets\092755002_Approach_Slab.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

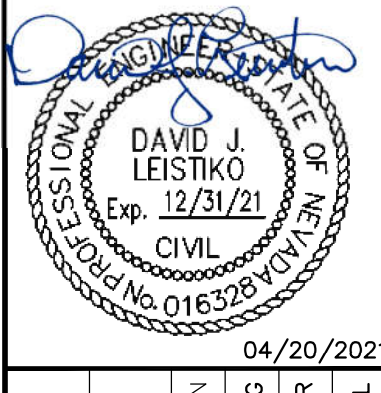


Call before you Dig
 1-702-432-5300
 FREEMAN AND METCAL, DIVISION OF TRANSPORTATION FIRST

Call Before You Overhead
 1-800-227-2600 1-702-227-2929

10 SHEET ADDED

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
 PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY NEVADA
 SHEET NUMBER
S5.02
 SHEET 326COF 345



KHA PROJECT	092755002
DATE	04/20/2021
SCALE	AS SHOWN
DESIGNED BY	CHG
DRAWN BY	MR
CHECKED BY	DLL
DATE	04/20/2021

Kimley-Horn
 © 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM

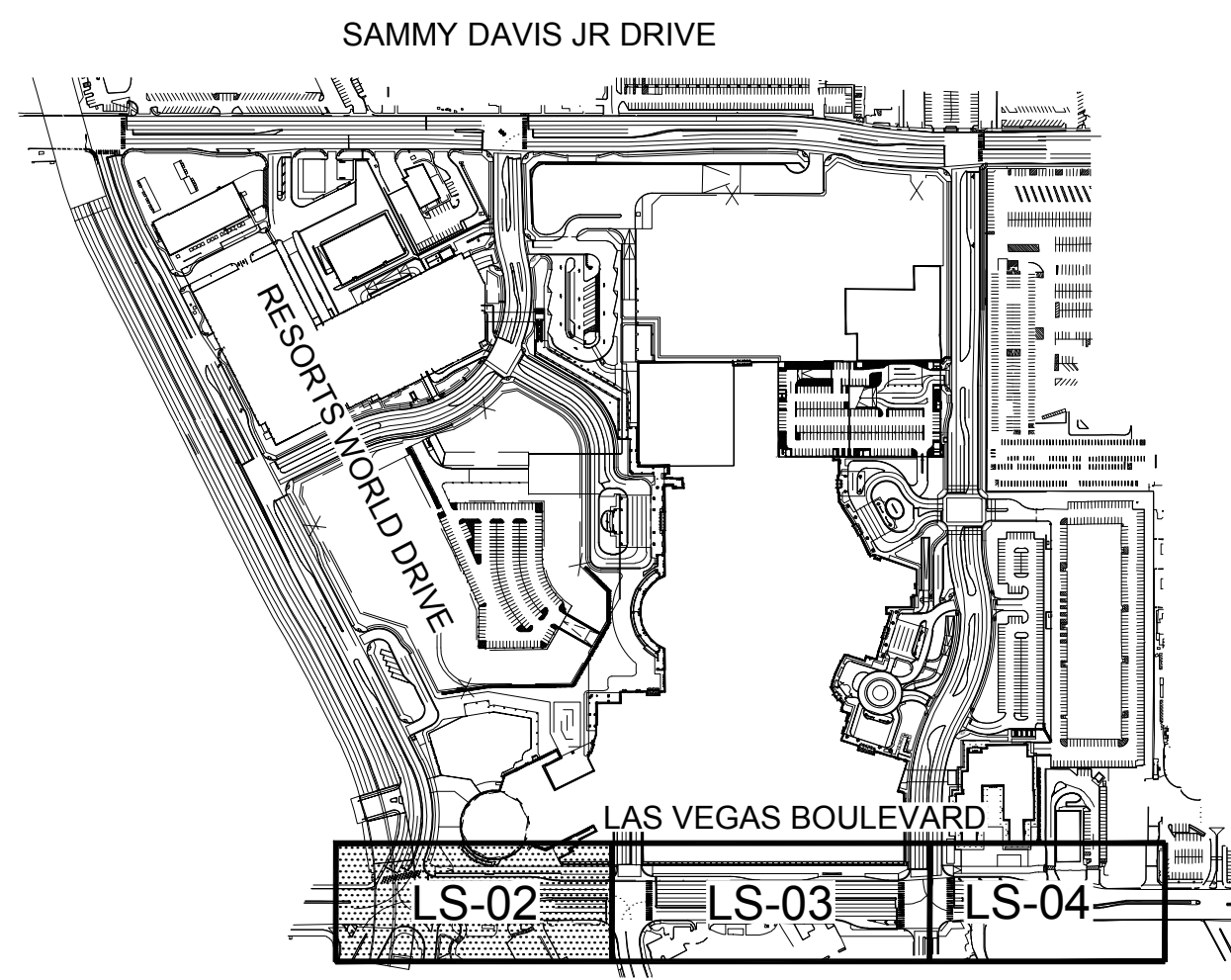
NO.	REVISIONS	DATE	BY
10	LVB-GENTING INTERSECTION	4/7/2021	KH
4	REVISED PER REVISION No. 4	2/18/2020	KH
2	REVISED PER REVISION No. 2	11/13/2019	KH
0	ISSUED FOR CONSTRUCTION	10/23/2019	KH

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 ISSUED FOR CONSTRUCTION

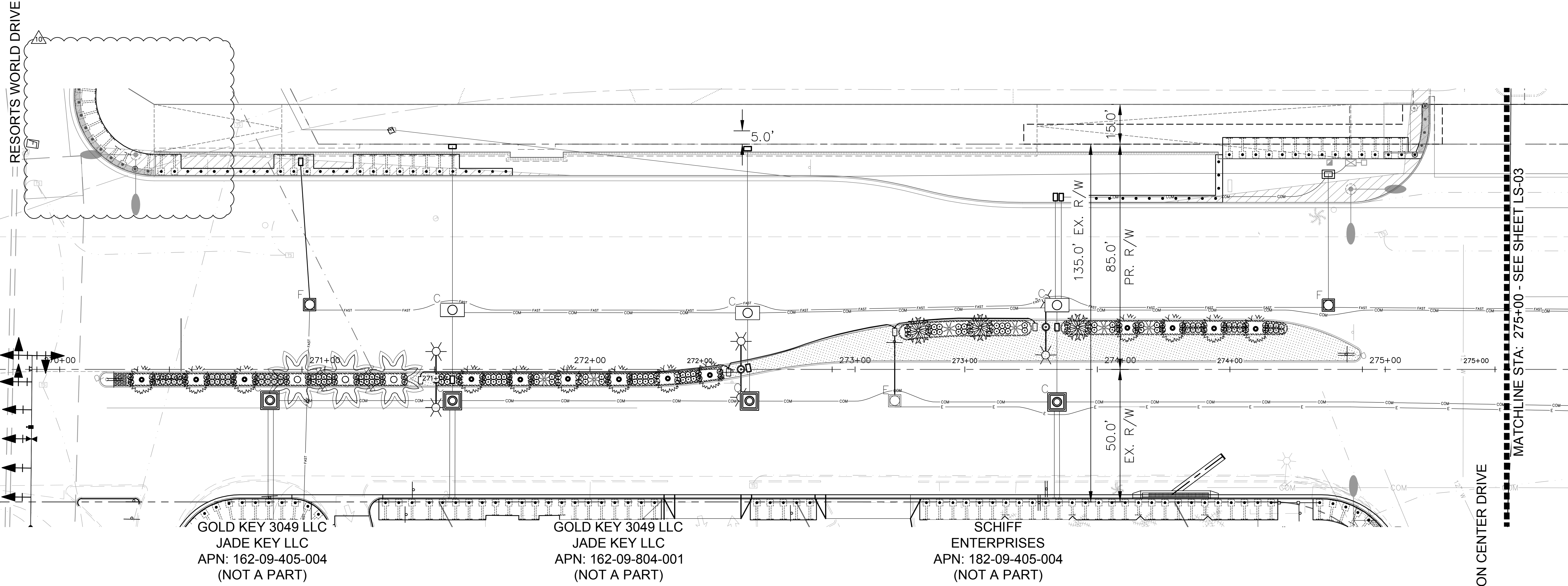
Plotted By: Ludwig, Casey Sheet: Sht:K10 Layout: LS-02 April 20, 2021 11:08:29am K:\LAV_Civil\092725002-Resorts World LV Ph1\CAD_PlanSheets\Office\Archive\092725002-LS-ADD7.dwg
 This document, together with the concepts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LANDSCAPE SCHEDULE

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	
Existing Canary Island Date Palm Protect and Relocate	Varies	
Butia capitata Pindo Palm	24" Box, 7' Ht. Min. 1/2" Cal. Min.	
Chamaerops humilis Mediterranean Fan Palm	24" Box, 7' Ht. Min. 1/2" Cal. Min.	
Washingtonia robusta Washingtonia Palm	36" Box, 10' Ht. Min. 2" Cal. Min.	
SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS		
BOTANICAL NAME / COMMON NAME	SIZE	
Nandina domestica Nandina Bamboo	5 Gal.	
Rhampholepis indica Indian Hawthorn	5 Gal.	
Rosmarinus officinalis Upright Rosemary	5 Gal.	
Trachelospermum jasminoides Star Jasmine	5 Gal.	
Yucca recurvifolia Yucca Pendula	5 Gal.	
INERT MATERIALS		
DESCRIPTION		
Annual Plants 12" O.C.		
Artificial Turf		



KEY MAP
NTS



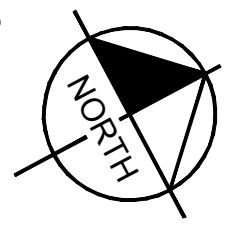
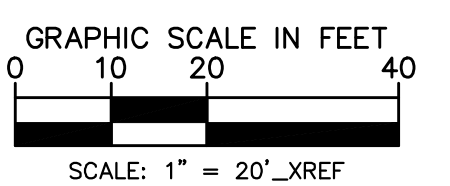
GOLD KEY 3049 LLC
JADE KEY LLC
APN: 162-09-405-004
(NOT A PART)

GOLD KEY 3049 LLC
JADE KEY LLC
APN: 162-09-804-001
(NOT A PART)

SCHIFF
ENTERPRISES
APN: 182-09-405-004
(NOT A PART)

MATCHLINE STA: 275+00 - SEE SHEET LS-03

CONVENTION CENTER DRIVE



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

By: _____
Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you Dig
1-702-432-5300

Call before you Overhead
1-800-227-2600

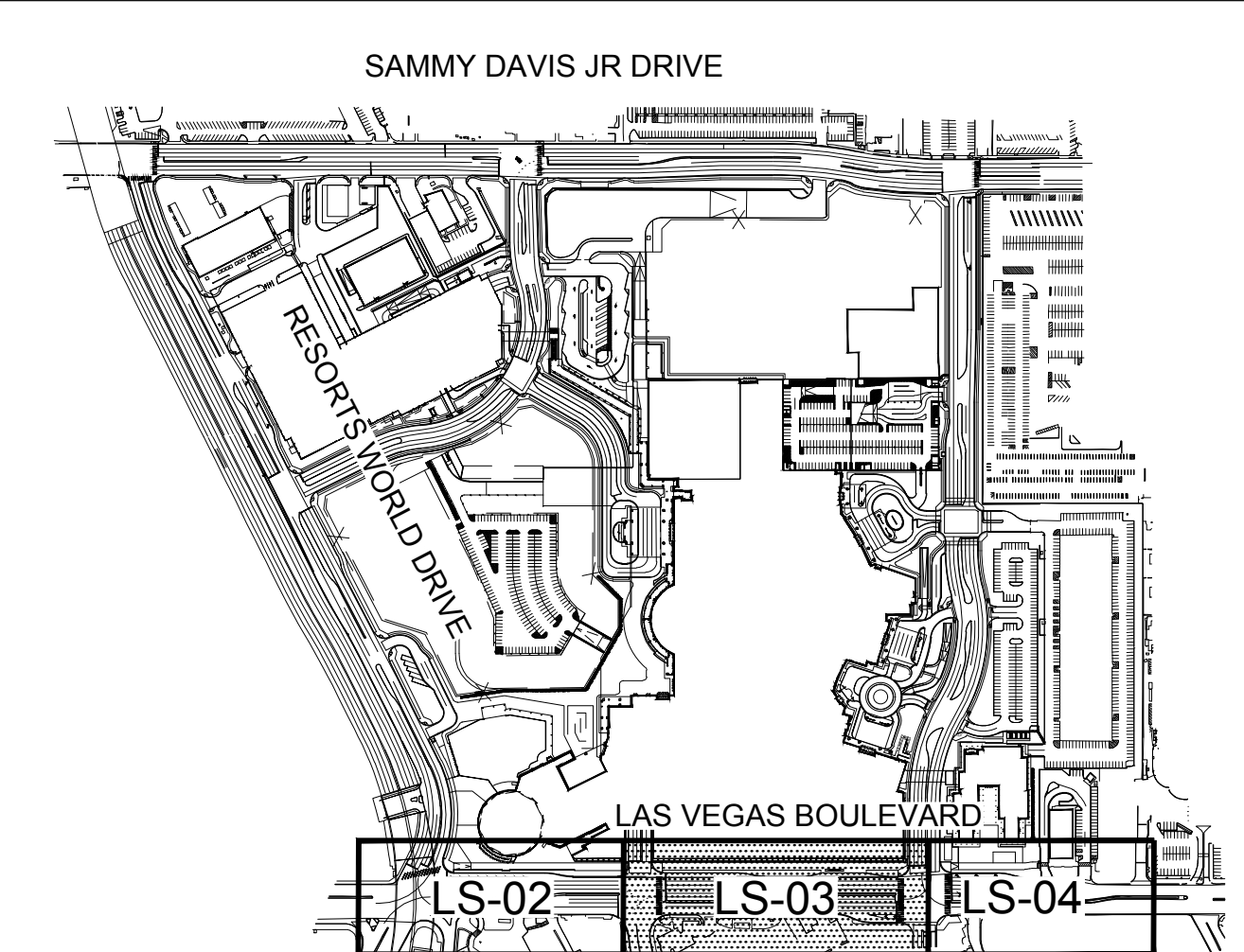
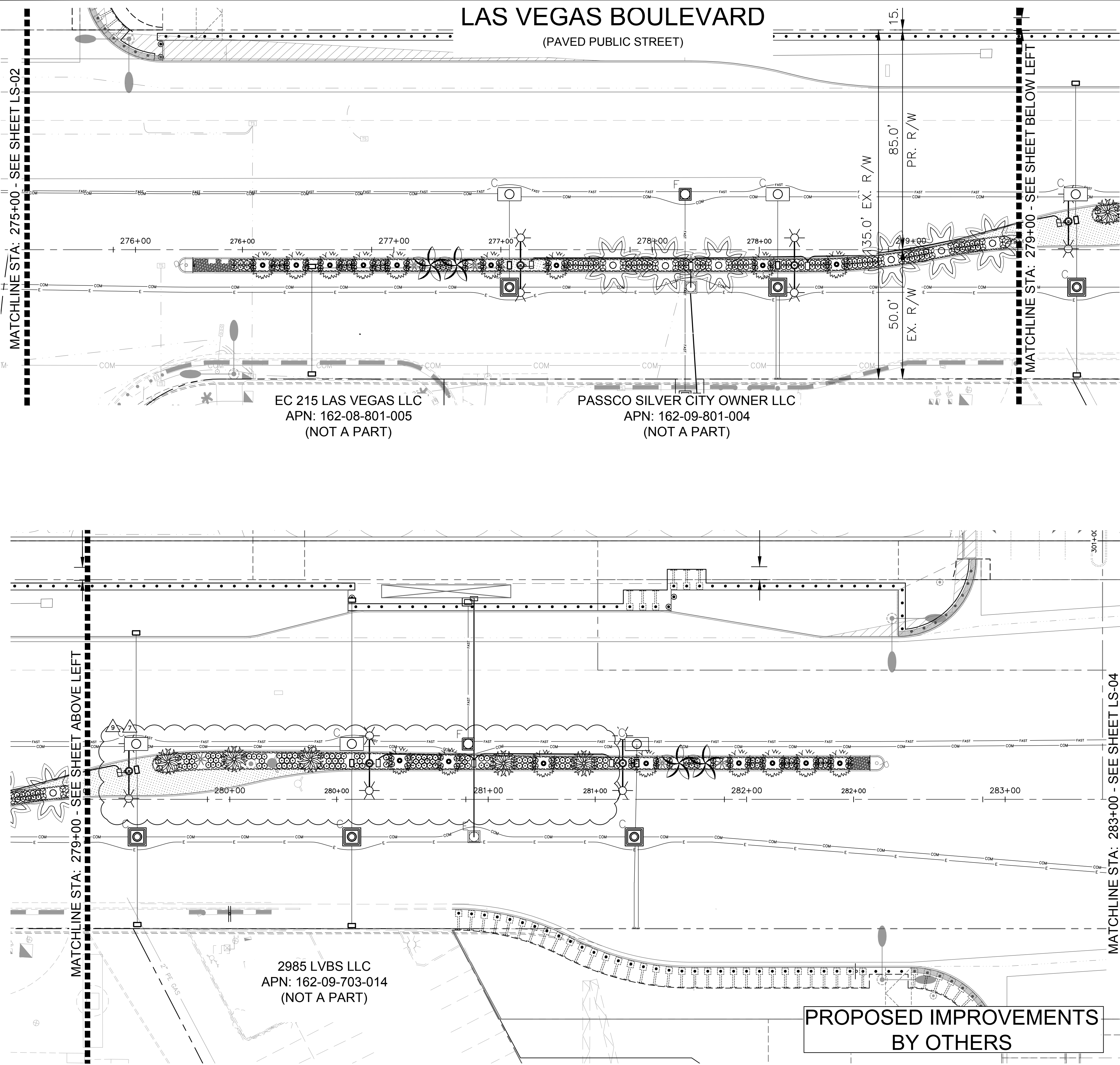
Call before you UnderGround
1-800-227-2600

Call before you Overhead
1-800-227-2600

KHA PROJECT 092725002	DATE	09/10/2019	SCALE	AS SHOWN	DESIGNED BY	CALL	DRAWN BY	CAL	CHECKED BY	ACP
	DATE	09/10/2019	SCALE	AS SHOWN	DESIGNED BY	CALL	DRAWN BY	CAL	CHECKED BY	ACP
<p>LANDSCAPE PLAN</p> <p>RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA</p>										
<p>RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA</p>										
<p>SHEET NUMBER LS-02</p>										
<p>PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983</p>										

LAS VEGAS BOULEVARD

(PAVED PUBLIC STREET)



KEY MAP

LANDSCAPE SCHEDULE

TREES

BOTANICAL NAME / COMMON NAME	SIZE
Existing Canary Island Date Palm Protect and Relocate	Varies
Butia capitata Pindo Palm	24" Box, 7' Ht. Min., 1/2' Cal. Min.
Chamaerops humilis Mediterranean Fan Palm	24" Box, 7' Ht. Min., 1/2' Cal. Min.
Washingtonia robusta Washingtonia Palm	36" Box, 10' Ht. Min., 2" Cal. Min.

SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS

BOTANICAL NAME / COMMON NAME	SIZE
Nandina domestica Nandina Bamboo	5 Gal.
Rhapiolepis indica Indian Hawthorn	5 Gal.
Rosmarinus officinalis Upright Rosemary	9 Gal.
Trachelospermum jasminoides Star Jasmine	5 Gal.
Yucca recurvifolia Yucca Pendula	5 Gal.

INERT MATERIALS

DESCRIPTION
Annual Plants 12" O.C.
Artificial Turf

Kimley **Horn**

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



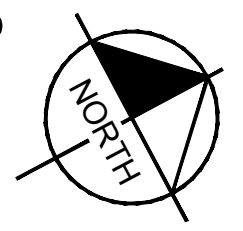
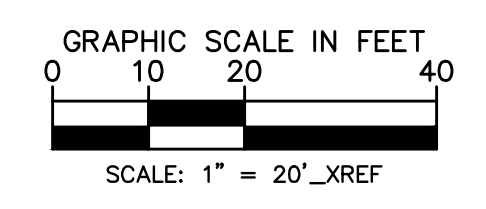
KHA PROJECT	092755002
DATE	09/10/2019
SCALE	AS SHOWN
DESIGNED BY	CALL
DRAWN BY	CALL
CHECKED BY	ACP

LANDSCAPE PLAN

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA

SHEET NUMBER
LS-03

Plotted By: Ludmila Casey, Sheet: KHA - Layout LS-03, November 19, 2020, 01:21:36pm, K:\LAV_Civil\092755002-Resorts World LV PH1\CAD\SignSheets\092755002-LS-ADD7.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

By: _____
Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

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

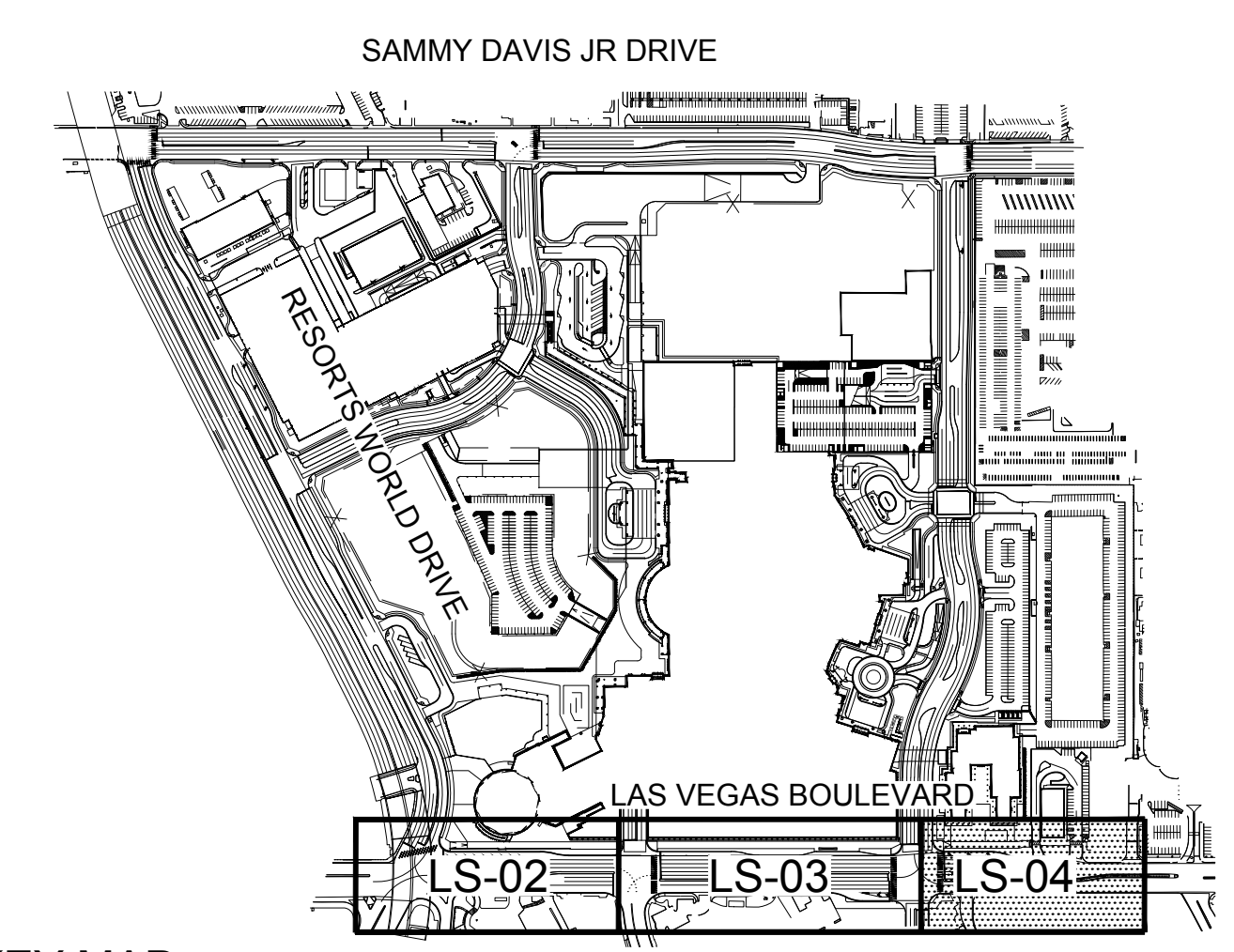
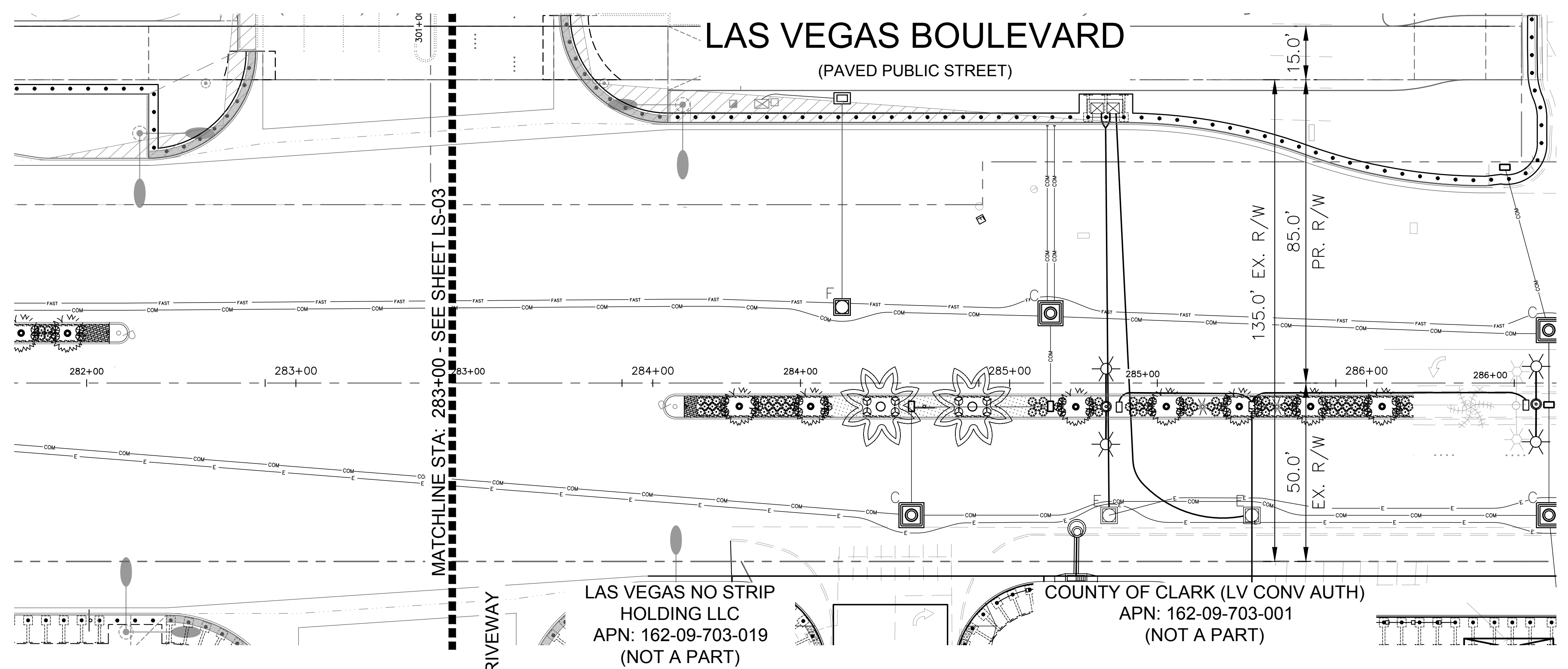
Call before you Overhead
Avoid overhead power line contact. It's costly.

Call before you UnderGround
1-702-432-5300

Call before you Overhead
1-800-227-2600 1-702-227-2929

PH 1-PW16-18981, PH 2-PW16-18982, PH 3-PW16-18983
 HTE #15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE)

Plotted By: LudWig_Cassidy_Sheet_Sett:Kha_Layout:LS-04_November 19, 2020 01:18:47pm K:\LAV_Civil\092755002-Resorts World LV_Phi\CAD\PlanSheets\Offsite\092755002-LS-ADD7.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY MAP
NTSA

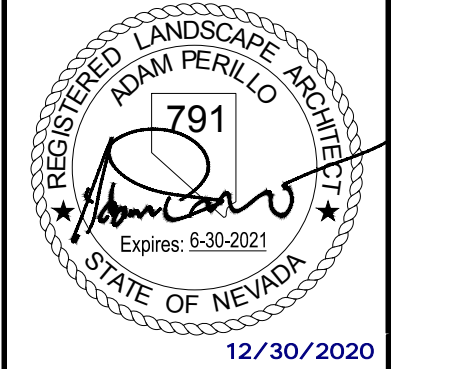
LANDSCAPE SCHEDULE

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	
Existing Canary Island Date Palm Protect and Relocate	Varies	
Butia capitata Pindo Palm	24" Box, 7' Ht. Min., 1/2" Cal. Min.	
Chamaerops humilis Mediterranean Fan Palm	24" Box, 7' Ht. Min., 1/2" Cal. Min.	
Washingtonia robusta Washingtonia Palm	36" Box, 10' Ht. Min., 2" Cal. Min.	
SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS		
BOTANICAL NAME / COMMON NAME	SIZE	
Nandina domestica Nandina Bamboo	5 Gal.	
Rhampholepis indica Indian Hawthorn	5 Gal.	
Rosmarinus officinalis Upright Rosemary	5 Gal.	
Trachelospermum jasminoides Star Jasmine	5 Gal.	
Yucca recurvifolia Yucca Pendula	5 Gal.	
INERT MATERIALS		
DESCRIPTION		
Annual Plants 12" O.C.		
Artificial Turf		

No.	REVISIONS	DATE	BY
9	R/W/L RELATED IMPROVEMENT REV	11/18/2020	KH
8	R/W/L RELATED IMPROVEMENT REV	9/04/2020	KH
7	V5.0 SITE PLAN UPDATE	2/28/20	KH
6	ADDED UTILITY SIGNATURES	9/10/19	KH

Kimley & Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



KHA PROJECT	092755002
DATE	09/10/2019
SCALE	AS SHOWN
DESIGNED BY	CALL
DRAWN BY	CALL
CHECKED BY	ACP

LANDSCAPE PLAN

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA

SHEET NUMBER
LS-04

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS ACCEPTED

By: _____

Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you Dig
1-800-227-2600

Call before you Overhead
1-800-227-2929

GRAPHIC SCALE IN FEET
0 10 20 40
SCALE: 1" = 20' XREF

CLARK COUNTY NEVADA

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 HTE #15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17153 (TDS UPDATE), 19-13855 (TDS UPDATE)

Artificial Turf Supply

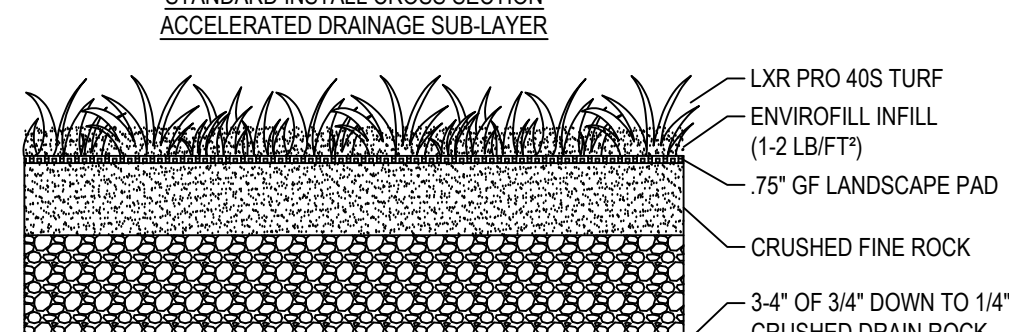
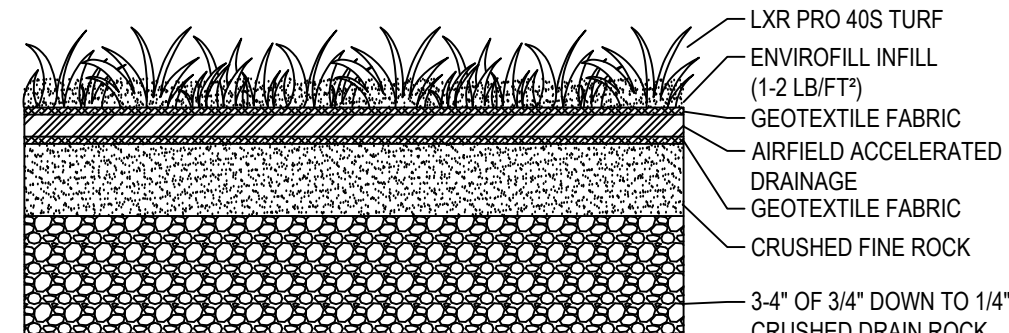
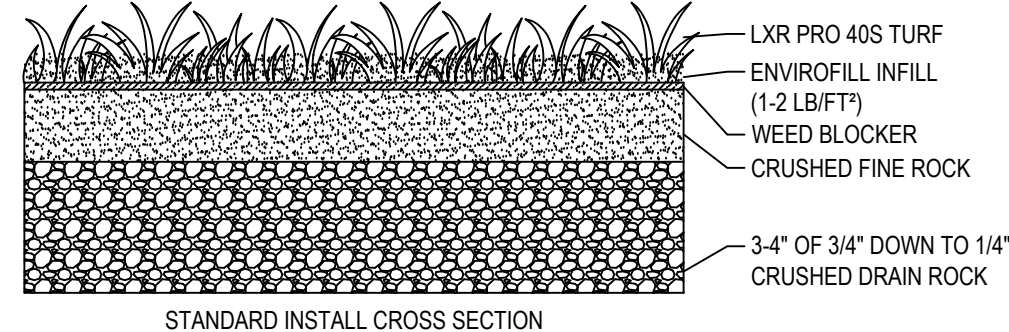
ARTIFICIAL TURF SUPPLY
 830-13 A1A NORTH #160
 PONTE VEDRA, FL 32082
 TOLL FREE: 1-877-525-TURF (8873)
 PHONE: (706) 659-4513
 FAX: (706) 659-4260
 www.artificialturfsupply.com

TURF DETAIL:
 PRODUCT: LXR PRO 40S
 PILE FACE WEIGHT: 40 OZ.
 PILE HEIGHT: 1.75"
 TUFT GAUGE: 1/2"
 TOTAL WEIGHT: 67 OZ.

FIBER DETAIL:
 PRIMARY YARN TYPE: POLYETHYLENE MONOFILAMENT
 DENIER: 8100
 THICKNESS / SHAPE: 240 MICRON STAR OLIVE GREEN
 PRIMARY COLOR: LAWN GREEN AND OLIVE GREEN
 THATCH YARN TYPE: TEXTURIZED POLYETHYLENE MONOFILAMENT
 THATCH DENIER: 6300
 THATCH THICKNESS / SHAPE: 120 MICRON RECTANGLE
 THATCH COLOR: LAWN GREEN

BACKING DETAIL:
 PRIMARY BACKING: 13 PIC AND 13 PIC POLY BACK
 WEIGHT: 7 OZ/YD²
 SECONDARY COATING: URETHANE 20 OZ/YD²
 DRAINAGE PERFORATIONS: 3/16" DIAMETER AT 4" OR LESS ON-CENTER ON BOTH AXIS

ROLL DETAIL:
 WIDTH: 15'
 LENGTH: 100' (ALSO AVAILABLE BY THE LINEAL FOOT)
 SHIPPING WEIGHT: APPROX. 1/2 LB/FT²
 ROLL DIAMETER: APPROX. 2'



- NOTES:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - DO NOT SCALE DRAWING.
 - THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 - ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 - CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5066-001.

1 LANDSCAPE ARTIFICIAL GRASS

LXR PRO 40S: AGGREGATE BASE

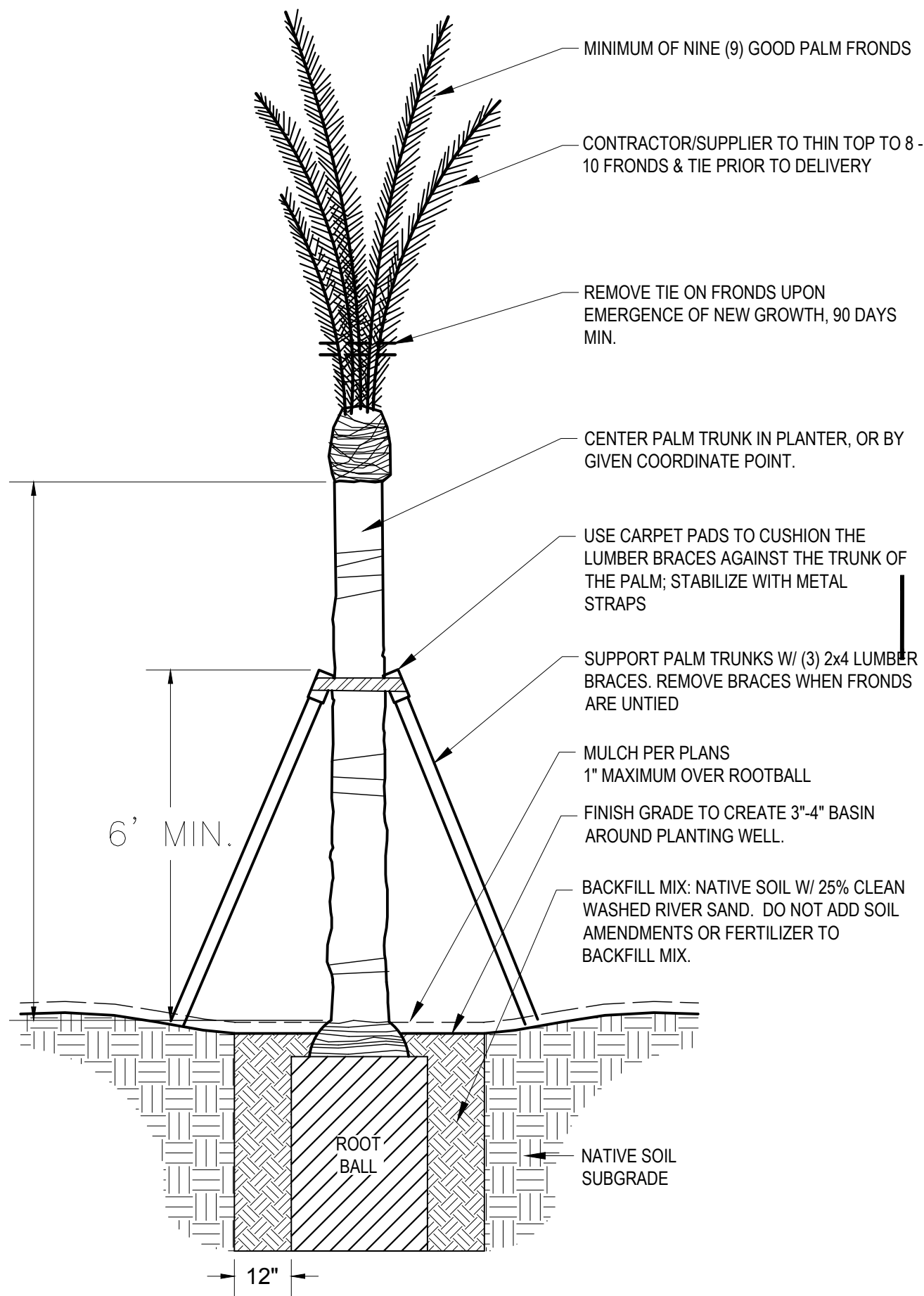
5066-001

REVISION DATE 04/18/2016

PROTECTED BY COPYRIGHT ©2016 CADDETAILS.COM LTD.

CADdetails.com

SEE PLANT LEGEND OR PLANS FOR PALM HEIGHT



- NOTES:**
- UTILITY LOCATIONS AND DEPTHS VARY. SEE BLUE STAKE AND POT-HOLE INFORMATION TO VERIFY BEFORE DIGGING.
 - DATE PALM "MEDJOO" W/ BOOTS INTACT
 - CONTRACTOR SHALL ENSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

2 PALM PLANTING DETAIL

SCALE: N.T.S.

AMENDED PLANTING BACKFILL MIX

MIX SHALL CONSIST OF: 1/2 PART "NATIVE" SITE SOIL (NO CALICHE IN BACKFILL) & 1/2 PART MULCH ("HUMUS") "NATURAL FERTILE, FRIABLE SOIL THOROUGHLY MIXED PRIOR TO BACKFILLING PIT. REMOVE ALL INORGANIC MATERIAL GREATER THAN 1" IN SIZE. SOIL BACKFILLING SHALL BE ACCOMPLISHED IN 6" LIFTS. EACH LIFT SHALL BE WATER SETTLED WITHOUT POOLING.

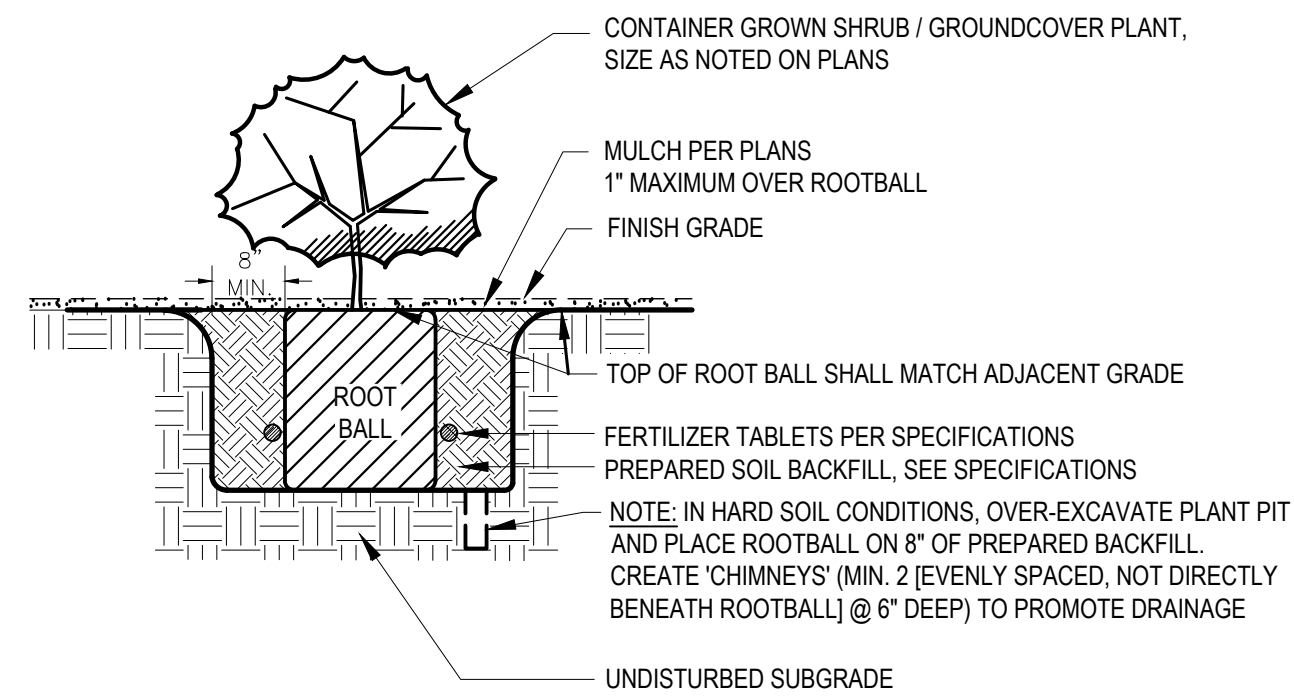
SLOW-RELEASE FERTILIZER TABLETS

FERTILIZER TABLETS SHALL BE AGRIFORM OR EQUAL (21 GRAM 20-10-5) SLOW RELEASE. TABLETS SHALL BE PLACED AT 1/2 THE DEPTH OF THE ROOTBALL AT THE FOLLOWING RATES.

- 1 TABLET PER 1-GALLON CONTAINER
- 2 TABLETS PER 5-GALLON CONTAINER
- 3 TABLETS PER 15-GALLON CONTAINER
- 4 TABLETS PER 24" BOX

AND AT A RATE OF 1 TABLET PER EACH ADDITIONAL 6" BOX SIZE. WHEN MULTIPLE QUANTITIES OF TABLETS ARE REQUIRED, THEY SHALL BE EQUALLY SPACED AT THE SPECIFIED DEPTH.

4 BACKFILL AND FERTILIZER NOTES



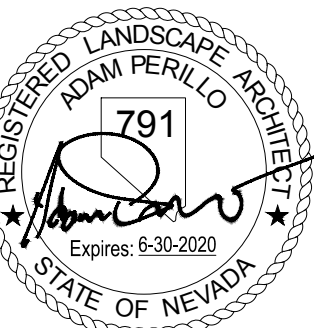
3 SHRUB / GROUND COVER PLANTING

SCALE: N.T.S.

NOTE: ALL EXISTING TREE STUMPS, ROOTS, AND DEBRIS WITHIN PROPOSED PLANTING PITS MUST BE COMPLETELY REMOVED TO PROVIDE A PLANTING PIT FOR SHRUBS AND TREES AS DETAILED HEREIN.

Kimley-Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6871 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM



KHA PROJECT	092755002	DATE	11/13/2019	SCALE	AS SHOWN	DESIGNED BY	CAL	DRAWN BY	ACP	CHECKED BY	ACP
-------------	-----------	------	------------	-------	----------	-------------	-----	----------	-----	------------	-----

LANDSCAPE DETAILS

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY, NEVADA

CLARK COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ACCEPTED

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

Call before you Dig
 811
 Before You Overhead

Call before you Dig
 UnderGround
 1-702-432-5300

Call before you Dig
 Overhead
 1-800-227-2600 1-702-227-2929

SHEET NUMBER
LS-05

SHEET 331 OF 345

Plotted By: Ludmila Casey, Sheet Set: KHA - Layout LS-05 - K:\PHX_LA\092467015_Reports_World Las Vegas_Cadd\Plans\CD\092755002-LS.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of it and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

REVISIONS: 11/13/2019 KH, 10/23/2019 KH, 11/13/2019 KH, 10/23/2019 KH
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 PH 15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE)

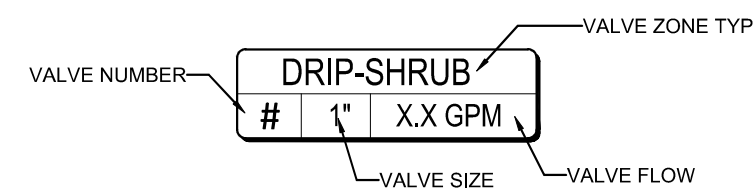
Plotted By: Ludwig, Casey Sheet: Sht.Kha Layout: IR-02 April 20, 2021 11:34:45am K:\PHX_LA\092467015-Resorts World Las Vegas\Cadd\Plans\CDs\092467015-IR.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

IRRIGATION LEGEND

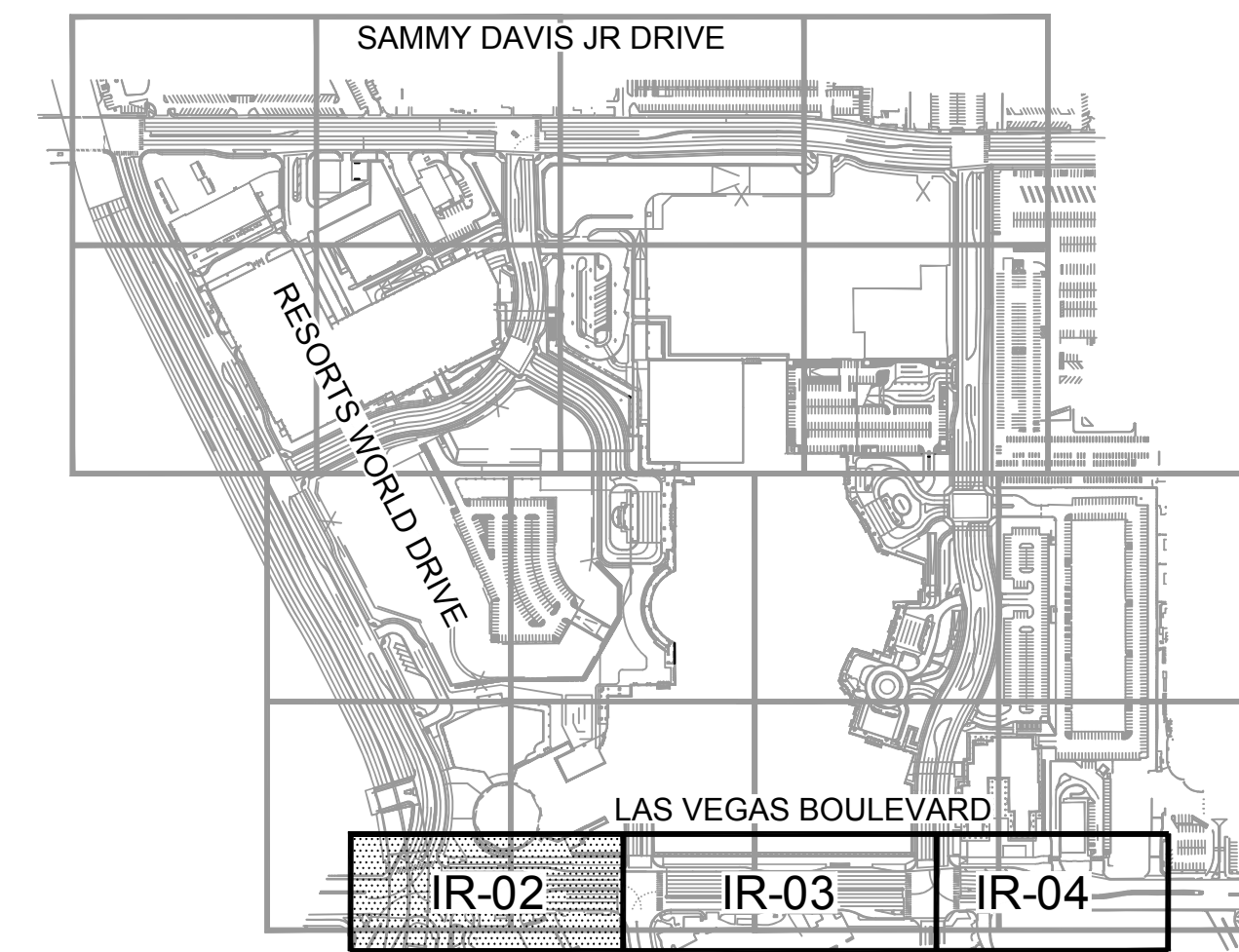
SYMBOL	MANUFACTURER / MODEL / DESCRIPTION
	WeatherTRAK ET Pro3, WTPRO3-C-18-SPH
-	Water Meter: See Civil Plans for Details
	Backflow Preventer: See Civil Plans for Details
	Rain Bird 150-EFB-CP 1-1/2" Master Valve, Normally Closed
	Rain Bird FS150B 1-1/2" Brass Flow Sensor
	Rain Bird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves
	Drip Zone Flush End Cap (see details)
EMITTERS	
	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)
	GROUND COVER: Netafim Drip Techline CV

SYMBOL	SIZE AND DESCRIPTION
	SCH 40 MAINLINE SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring "X" denotes quantity

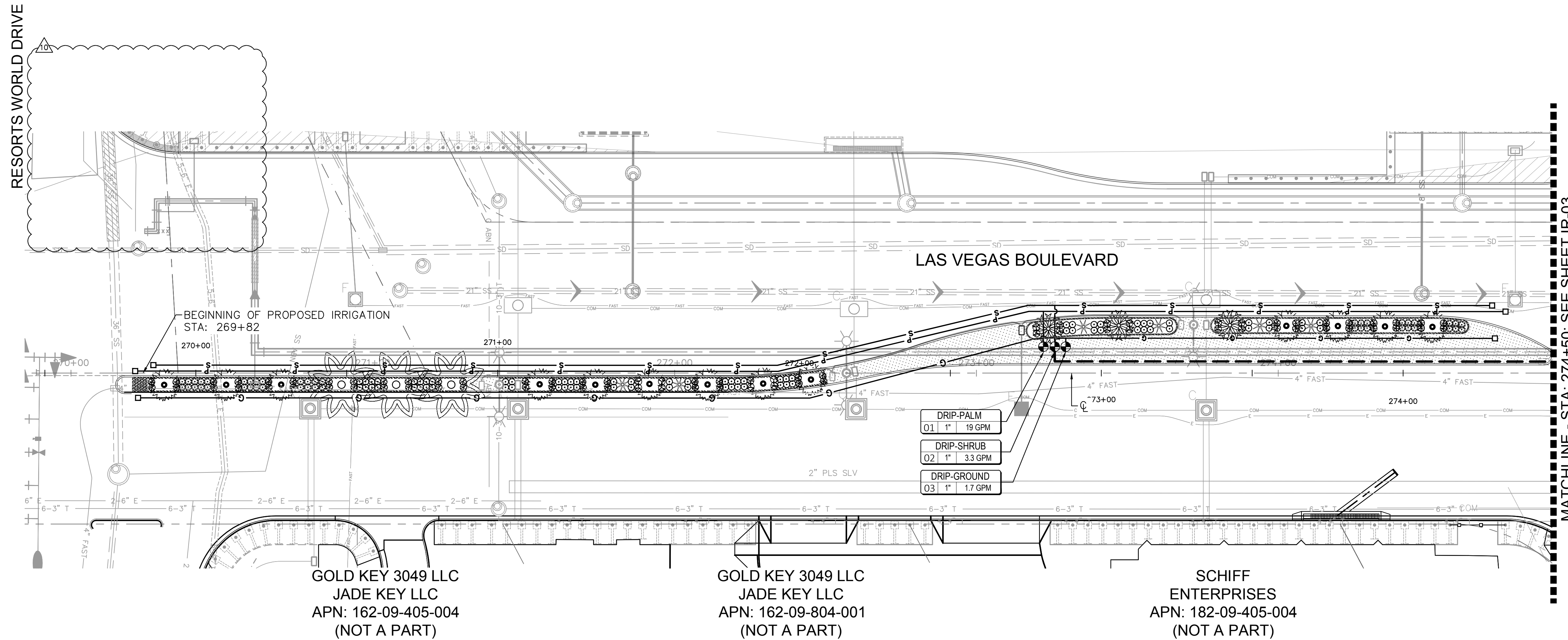
FLOW (GPM)	PIPE SIZE
0-6.0	3/4"
6.1-10	1"
10+	1-1/4"



- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.

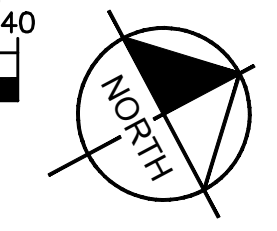
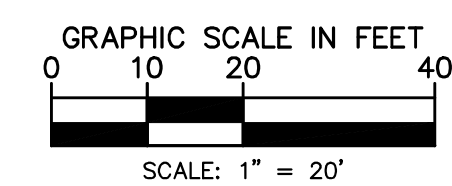


KEY MAP
NTS



- DRIP-PALM
01 | 1" | 19 GPM
- DRIP-SHRUB
02 | 1" | 3.3 GPM
- DRIP-GROUND
03 | 1" | 1.7 GPM

MATCHLINE - STA: 274+50; SEE SHEET IR-03



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

By: _____
Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you Dig
1-800-227-2600

Call before you Overhead
1-800-227-2929

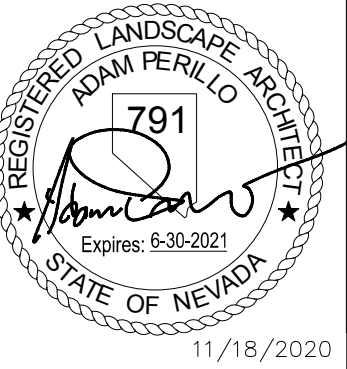
Call before you UnderGround
1-702-432-5300

Call before you Overhead
1-800-227-2600

NO.	REVISIONS	DATE	BY
1	V5.0 SITE PLAN UPDATE	2/28/20	KH
2	ADDED UTILITY SIGNATURES	9/10/19	KH
3			
4			
5			
6			
7			
8			
9			
10			

Kimley-Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092755002	09/10/2019	AS SHOWN	ACP	ACP	ACP

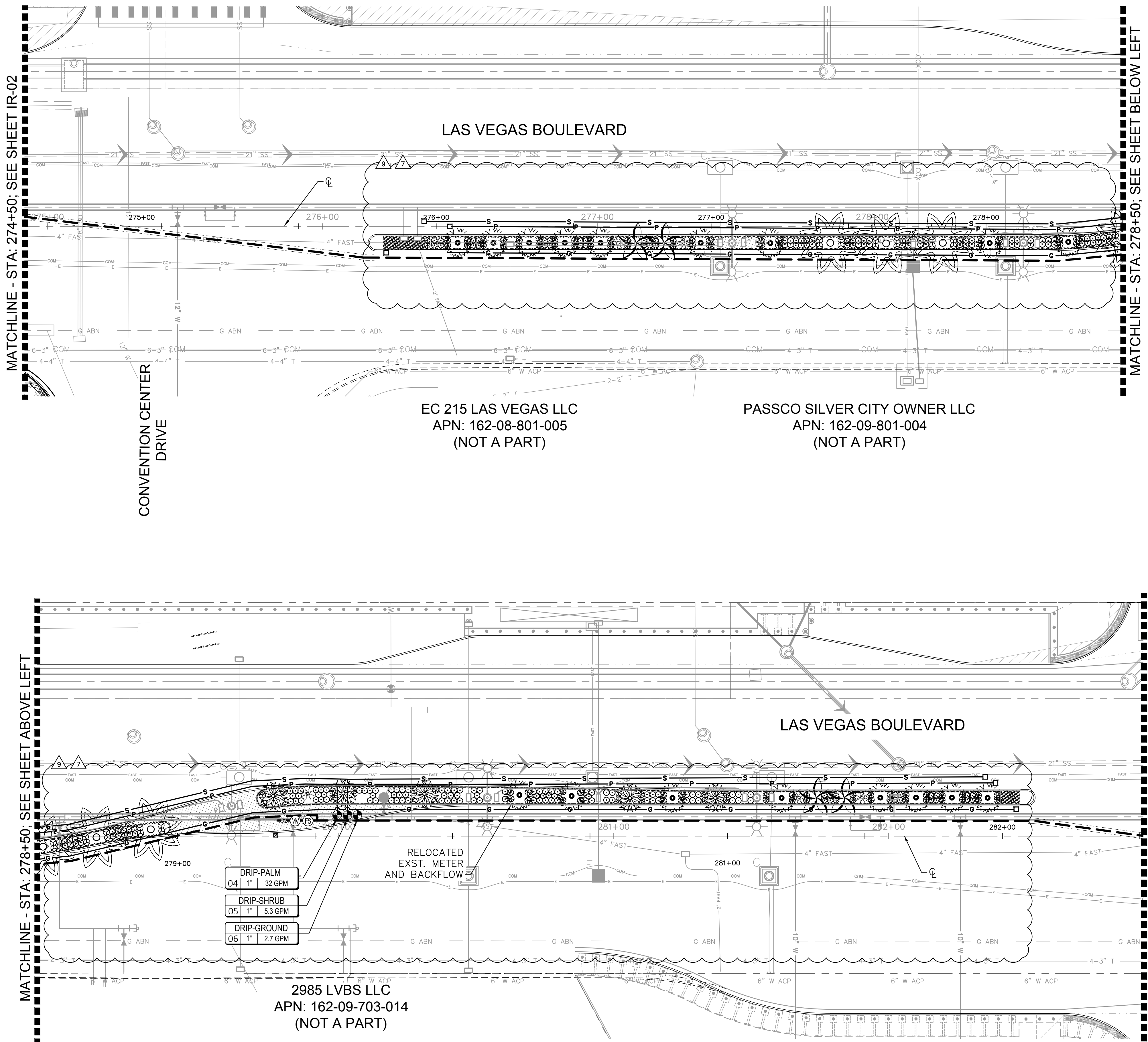
IRRIGATION PLAN

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA

SHEET NUMBER
IR-02

PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983
 HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE)

Plotted By: LudWig_Casey_Sheet_Sett:Kha_Layout:IR-03 November 19, 2020 01:08:32pm K:\PHX-LA\092467015-Resorts World Las Vegas\Code\Plans\CDs\092755002-IR.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

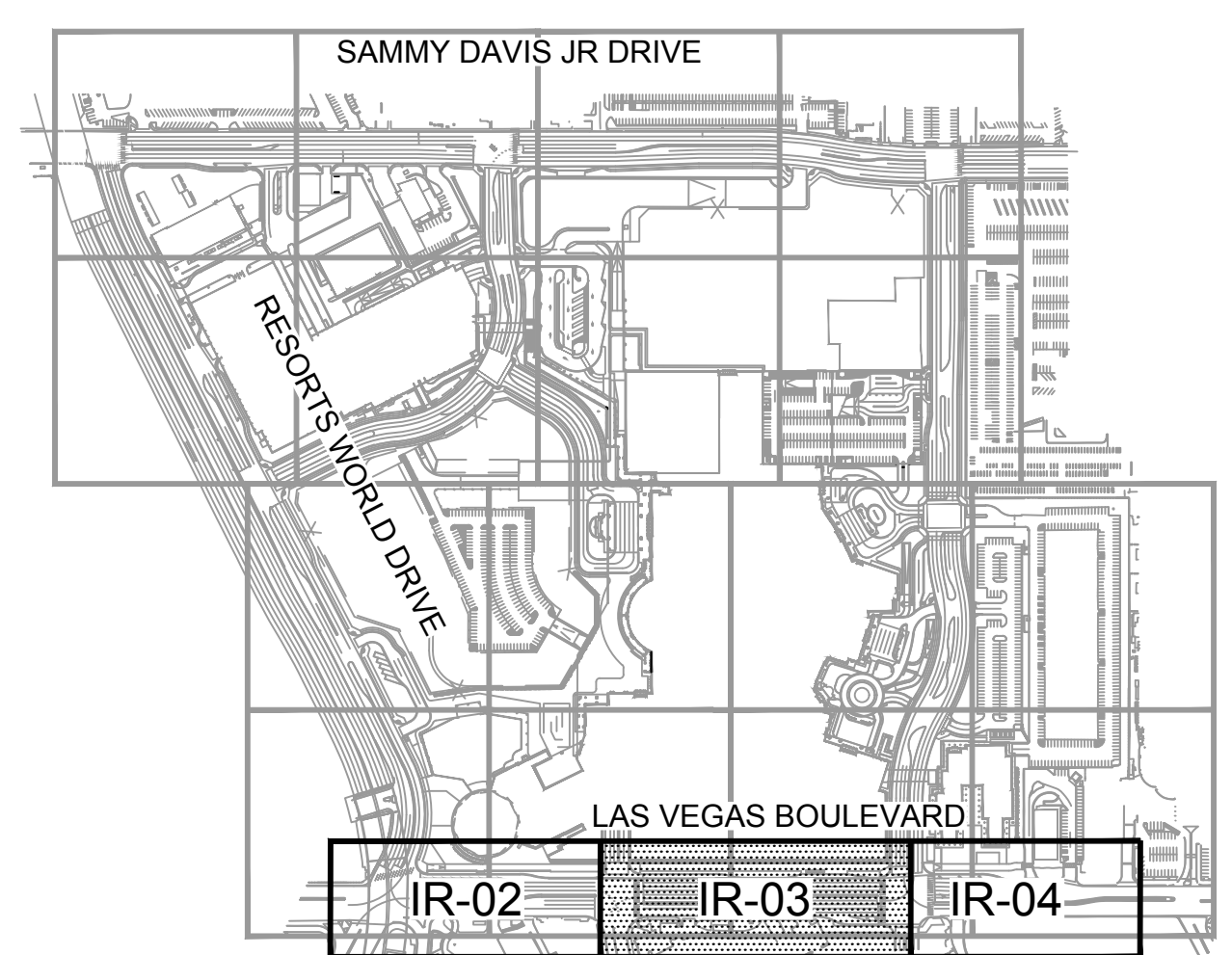


MATCHLINE - STA: 274+50; SEE SHEET IR-02

MATCHLINE - STA: 278+50; SEE SHEET BELOW LEFT

MATCHLINE - STA: 278+50; SEE SHEET ABOVE LEFT

MATCHLINE - STA: 282+50; SEE SHEET IR-04



KEY MAP
NTS

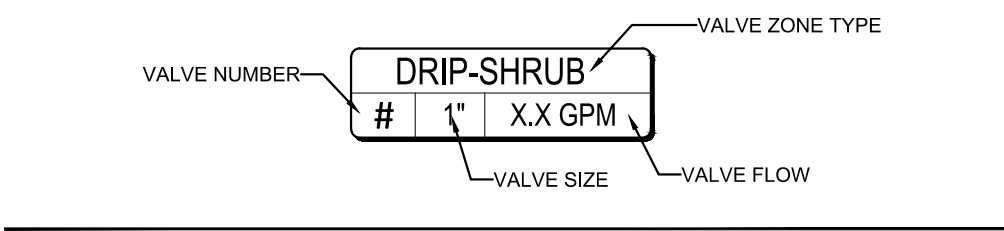
IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION
⊠	WeatherTRAK ET Pro3, WTPRO3-C-18-SPH
-	Water Meter: See Civil Plans for Details
∞	Backflow Preventer: See Civil Plans for Details
⊙	Rain Bird 150-EFB-CP 1-1/2" Master Valve, Normally Closed
⊕	Rain Bird FS150B 1-1/2" Brass Flow Sensor
⊗	Rain Bird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves
□	Drip Zone Flush End Cap (see details)
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)
■	GROUND COVER: Netafim Drip Techline CV

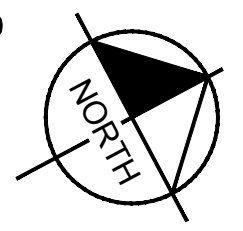
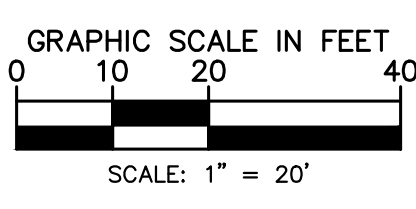
SYMBOL	SIZE AND DESCRIPTION
⊗	SCH 40 MAINLINE SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring "X" denotes quantity

SYMBOL	SIZE AND DESCRIPTION
—	SCH 40 PVC Mainline - 1-1/2"
—	SCH 40 PVC Palm Lateral Pipe (Size per table below)
—	SCH 40 PVC Shrub Lateral Pipe (Size per table below)
—	SCH 40 PVC Ground Cover Lateral Pipe (Size per table below)

FLOW (GPM)	PIPE SIZE
0-6.0	3/4"
6.1-10	1"
10+	1-1/4"



- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

By _____
Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

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

Call before you UnderGround
1-702-432-5300

Call before you Overhead
1-800-227-2600 1-702-227-2929

RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA

SHEET NUMBER
IR-03

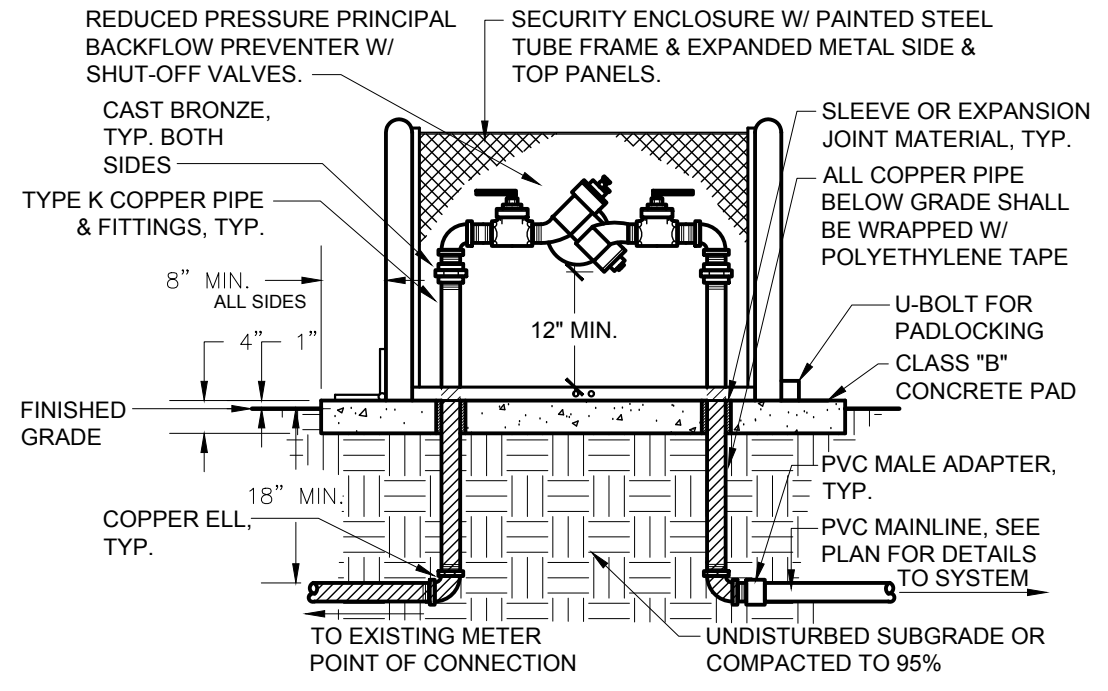
HTE #15-54215 (TDS), 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE), PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S. SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

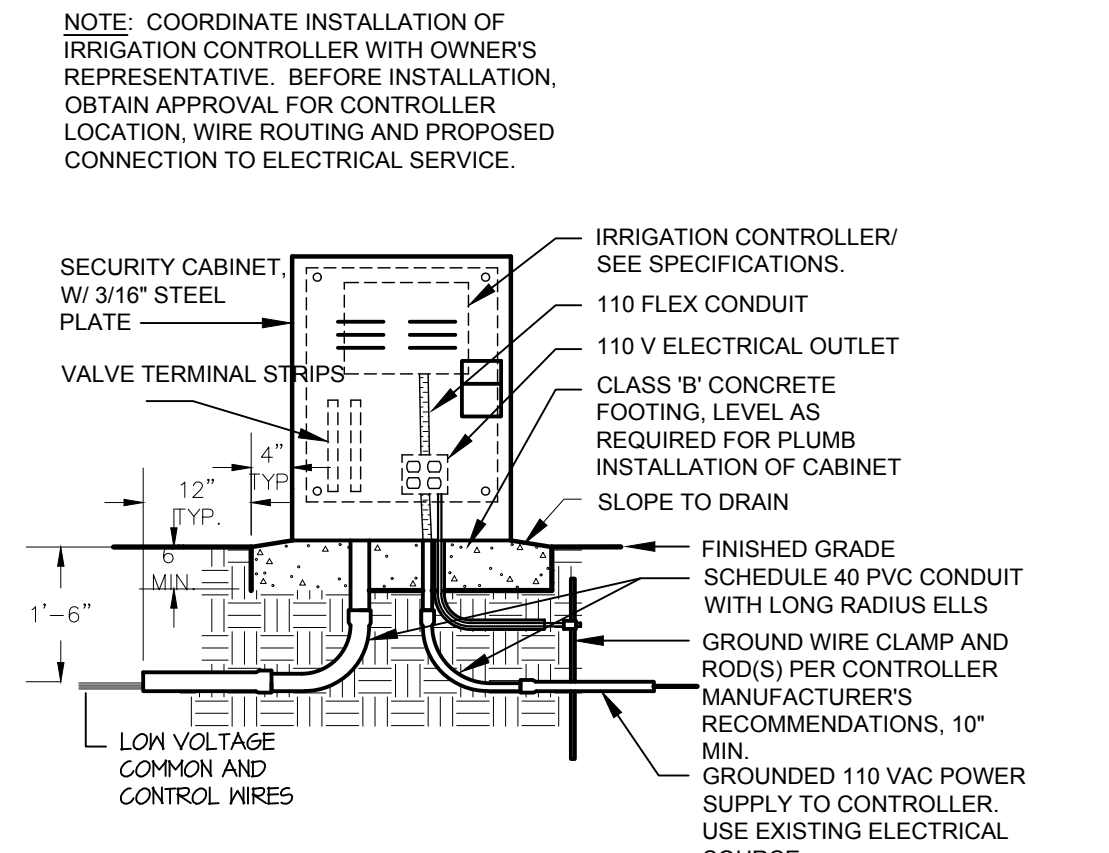
KHA PROJECT	092755002
DATE	09/10/2019
SCALE	AS SHOWN
DESIGNED BY	CALL
DRAWN BY	CALL
CHECKED BY	ACP

RWLY RELATED IMPROVEMENT REV	11/18/2020	KH
RWLY RELATED IMPROVEMENT REV	09/07/2020	KH
V5.0 SITE PLAN UPDATE	2/28/20	KH
ADDED UTILITY SIGNATURES	9/10/19	KH
No.	REVISIONS	DATE
	BY	

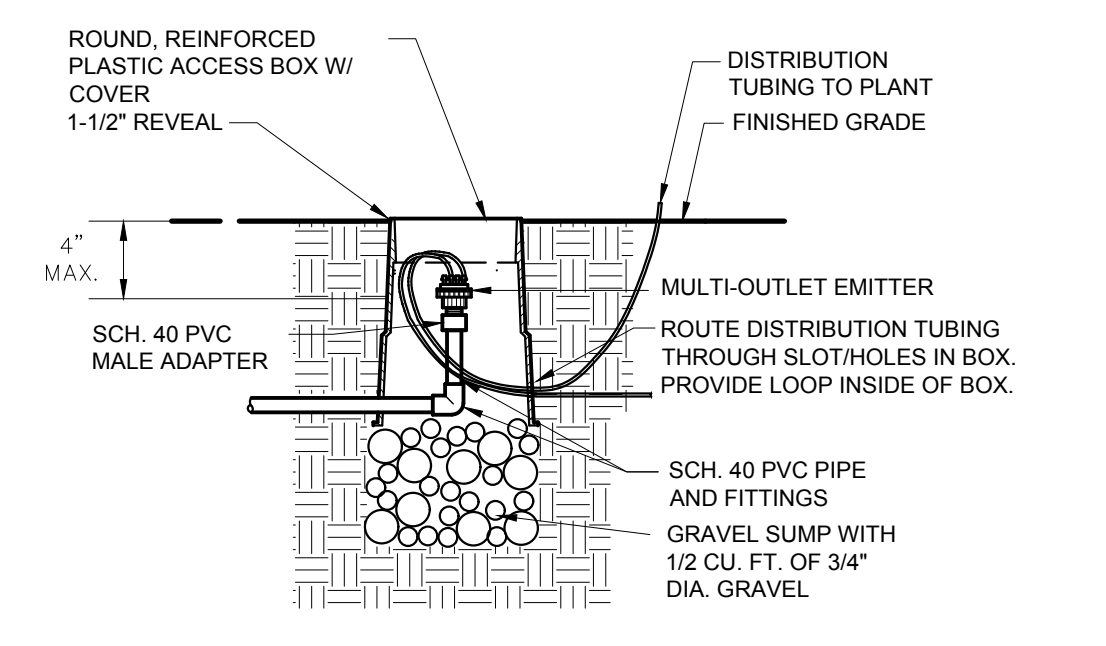
Plotted By: Ludmila Cassey, Sheet: Sct:kno_Layout1R-05, K:\PHX_LA\092467015_Reports World Las Vegas_Cadd\Plans\092755002-IR.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



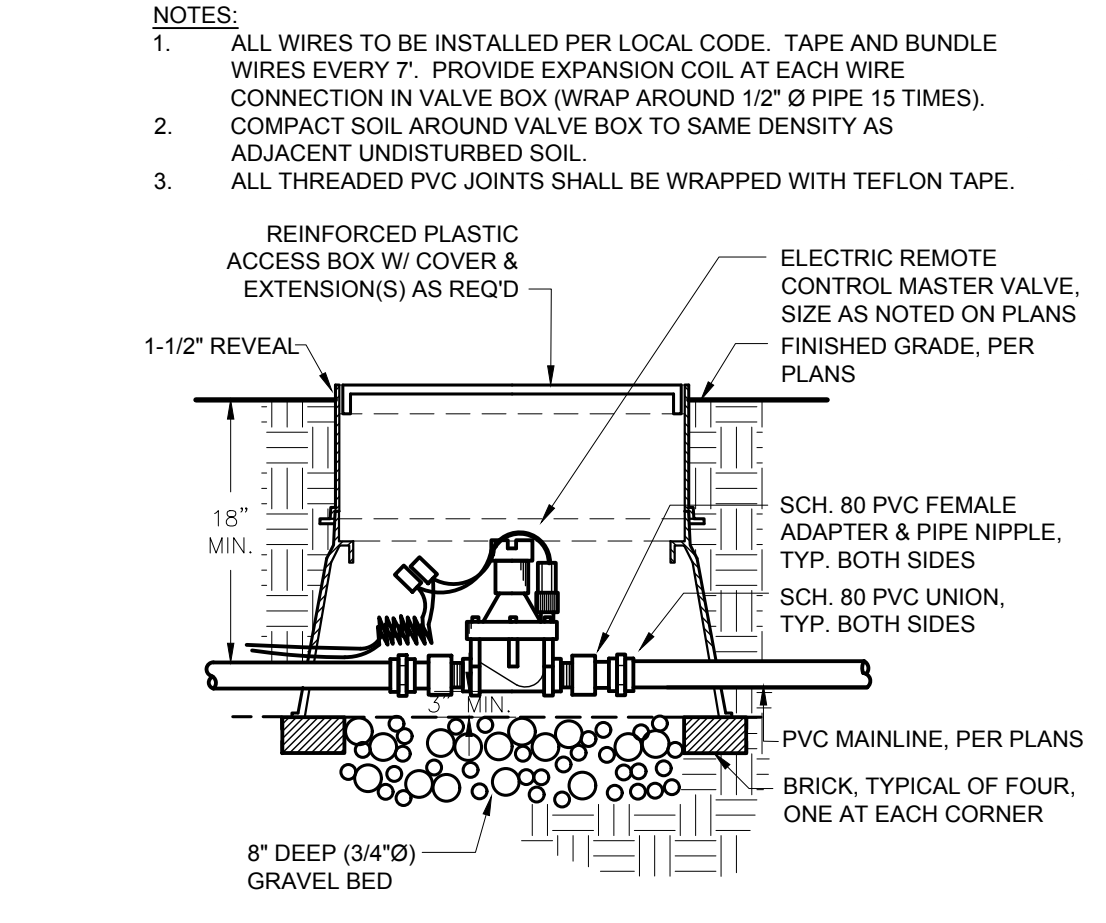
1 BACKFLOW PREVENTER IN SECURITY ENCLOSURE
SCALE: N.T.S.



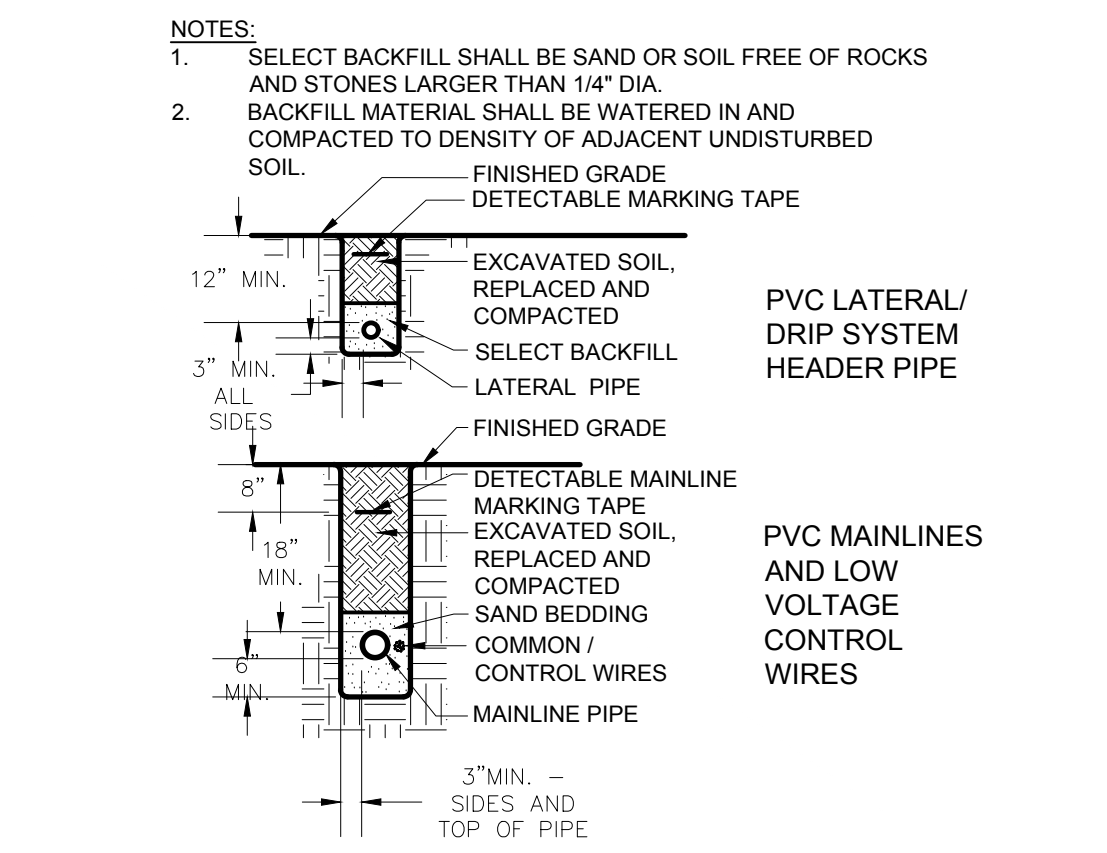
2 IRRIGATION CONTROLLER IN PEDESTAL ENCLOSURE
SCALE: N.T.S.



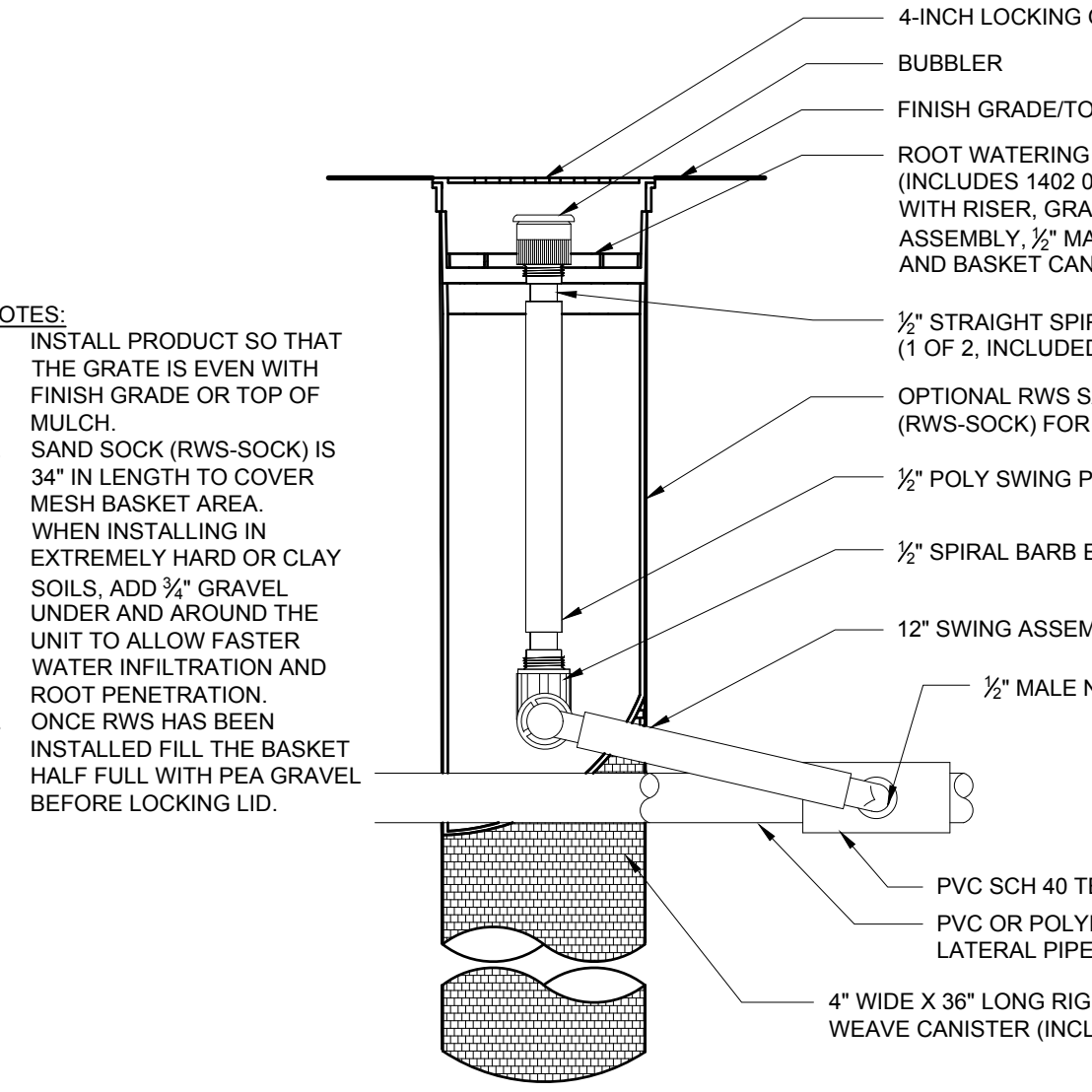
3 MULTI-OUTLET EMITTER
SCALE: N.T.S.



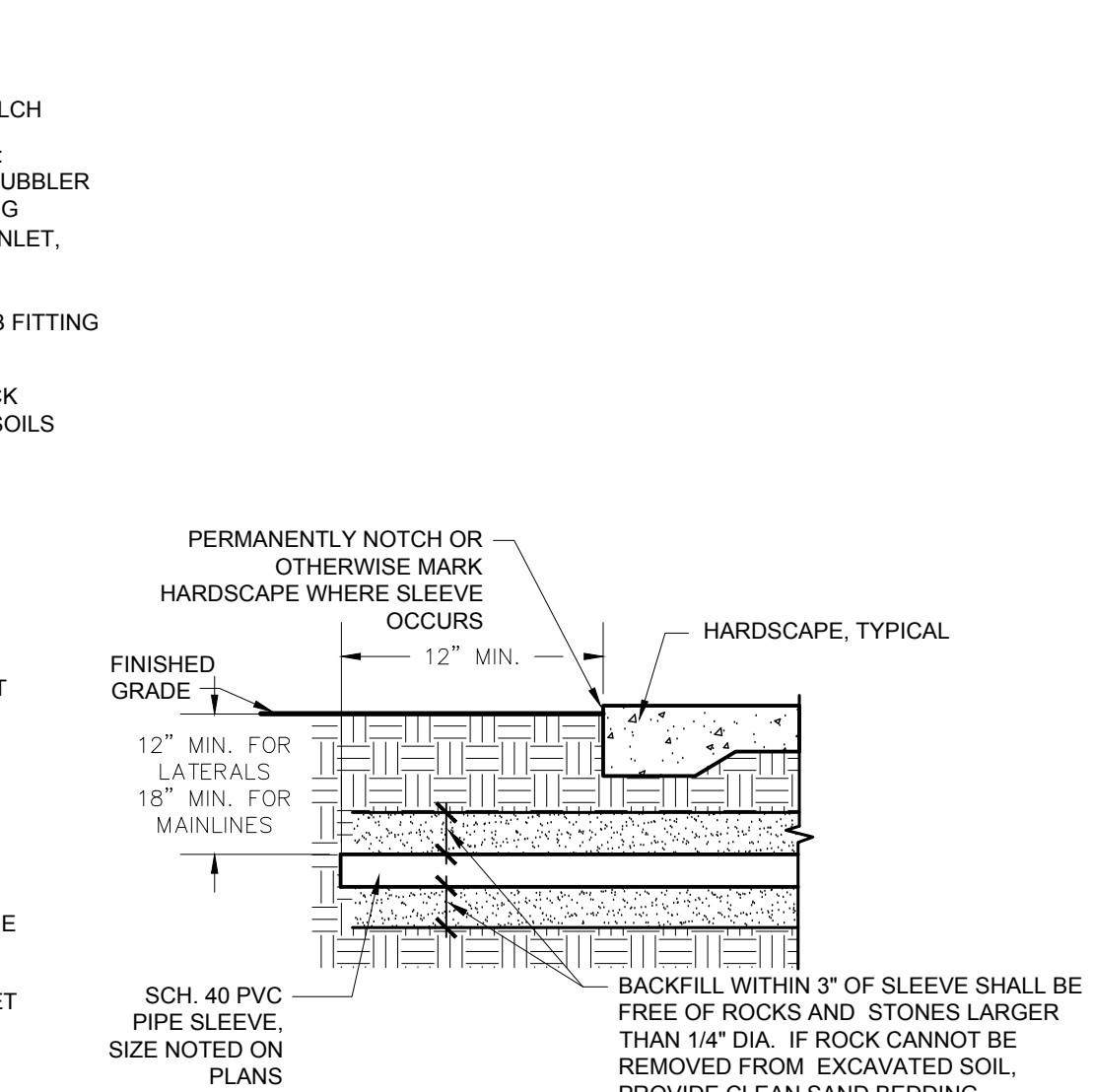
4 MASTER VALVE ASSEMBLY
SCALE: N.T.S.



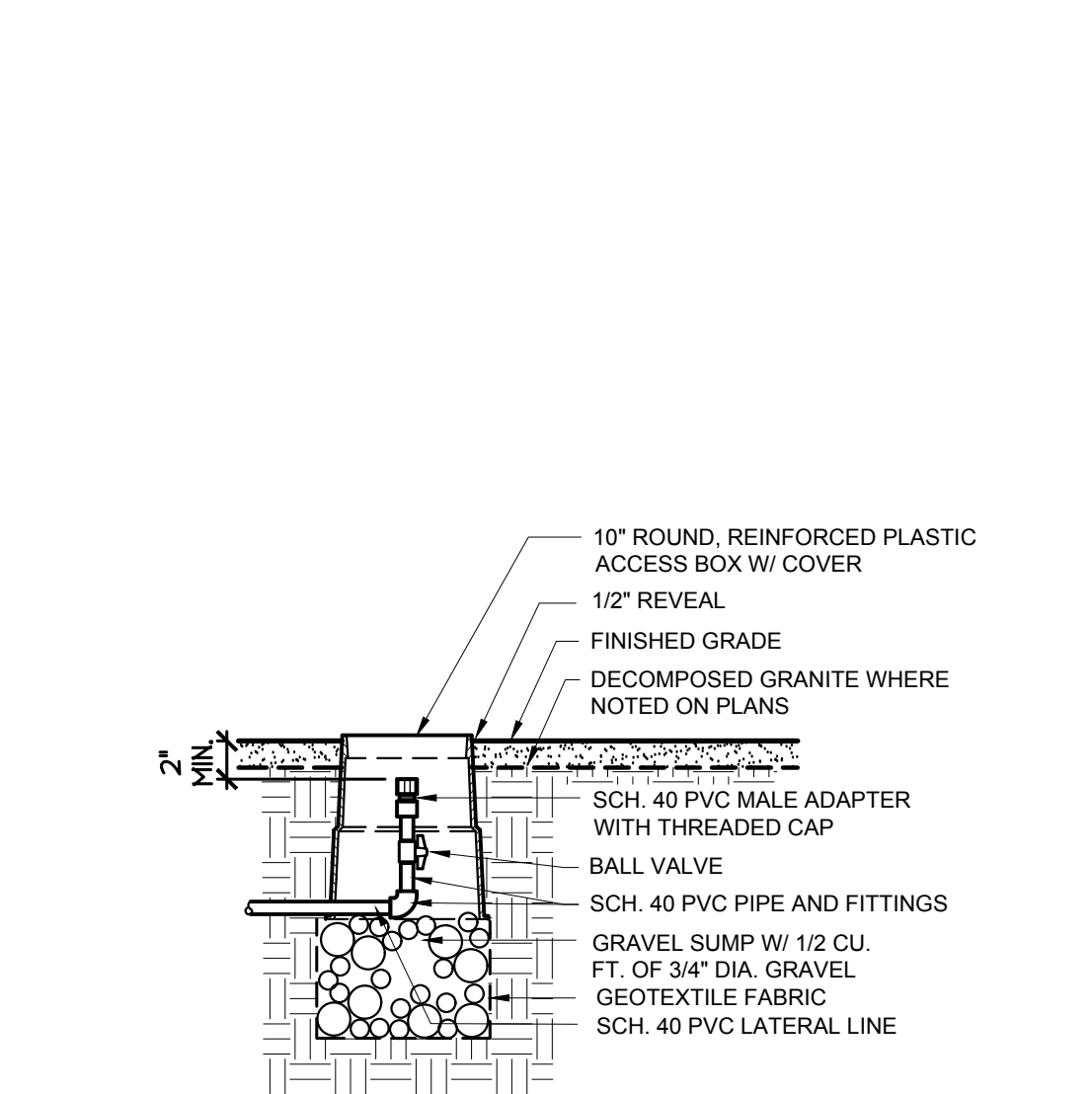
5 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE
SCALE: N.T.S.



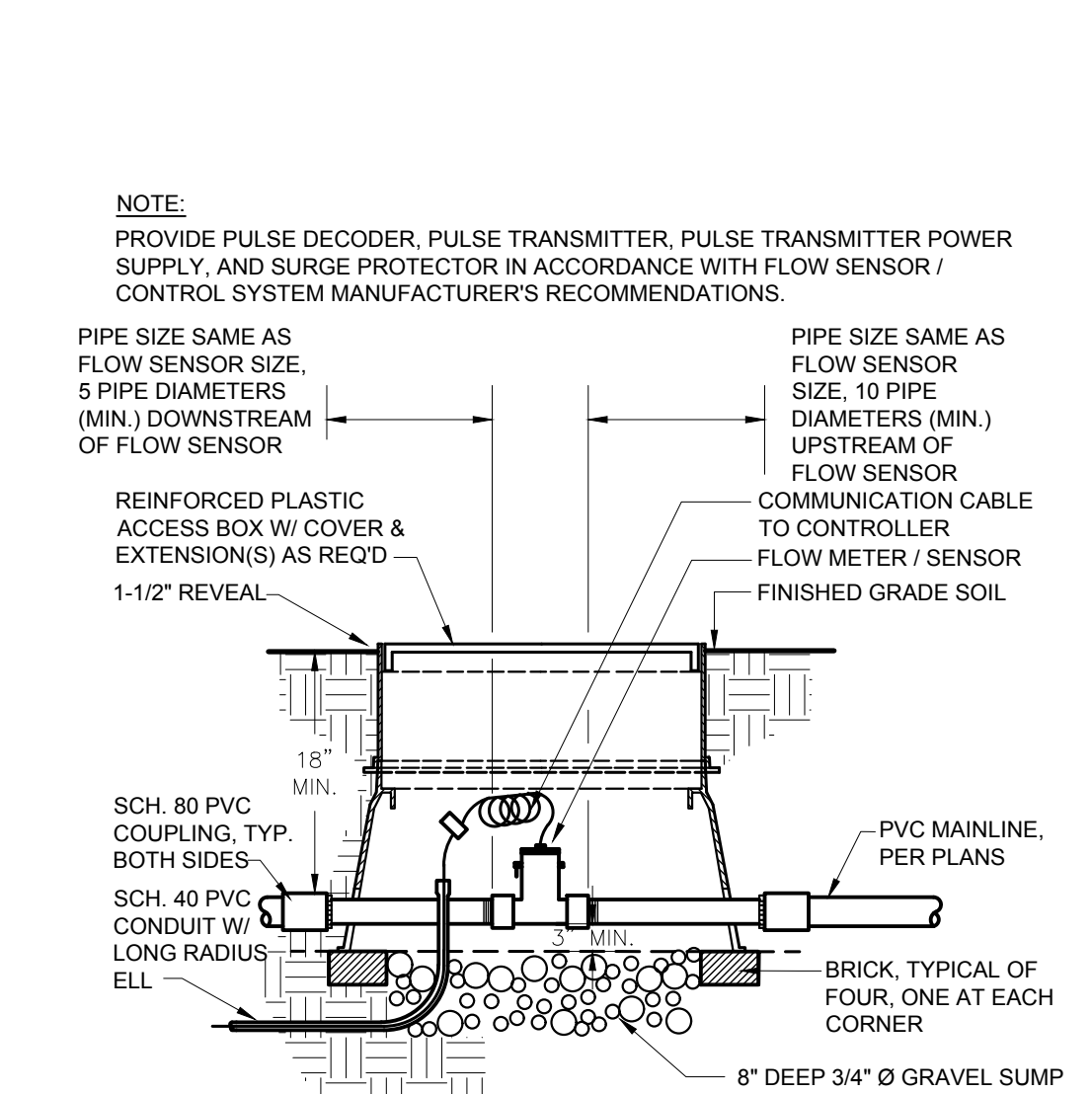
6 ROOT WATERING SYSTEM
SCALE: N.T.S.



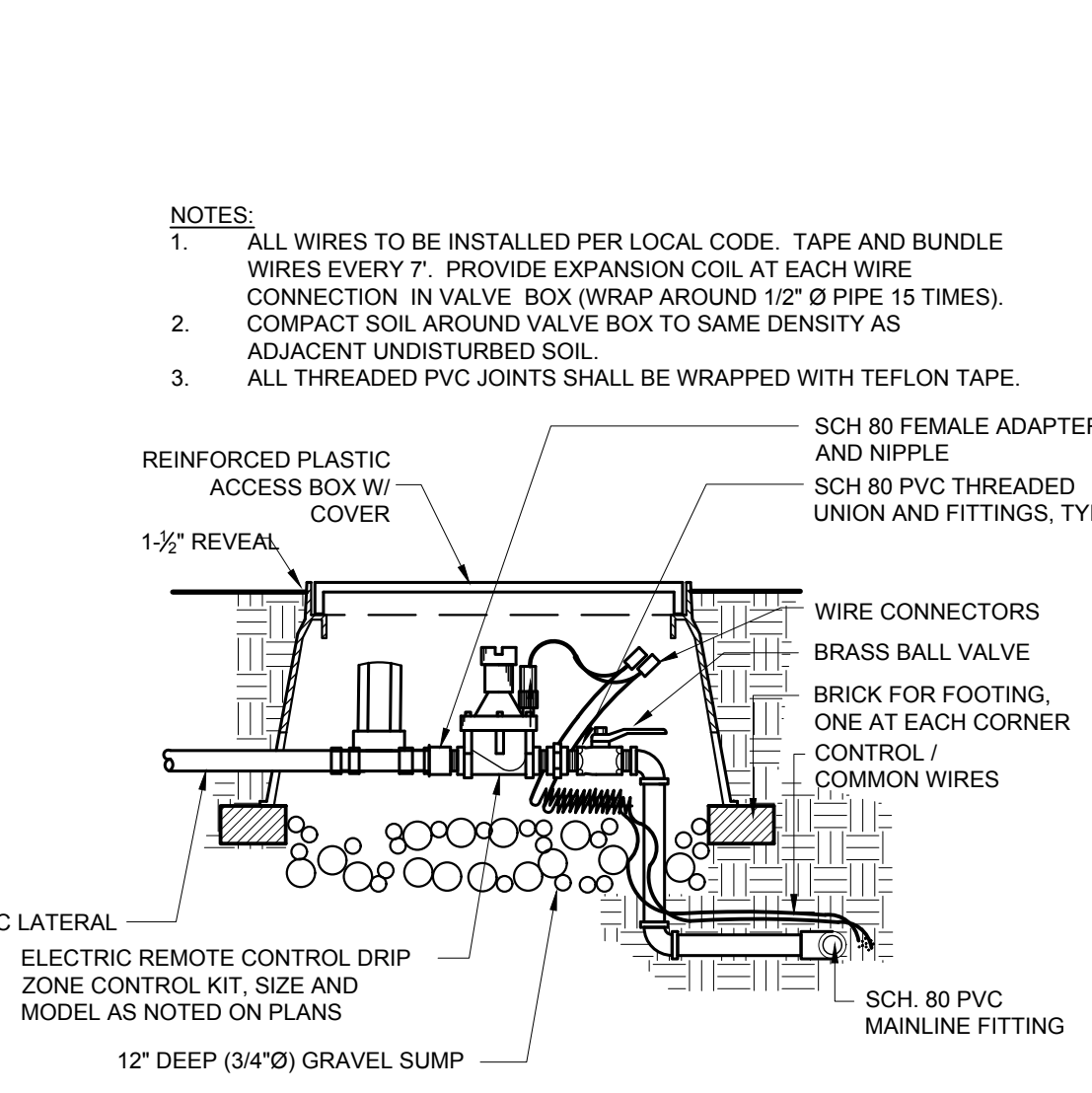
7 MAINLINE AND LATERAL PIPE SLEWING
SCALE: N.T.S.



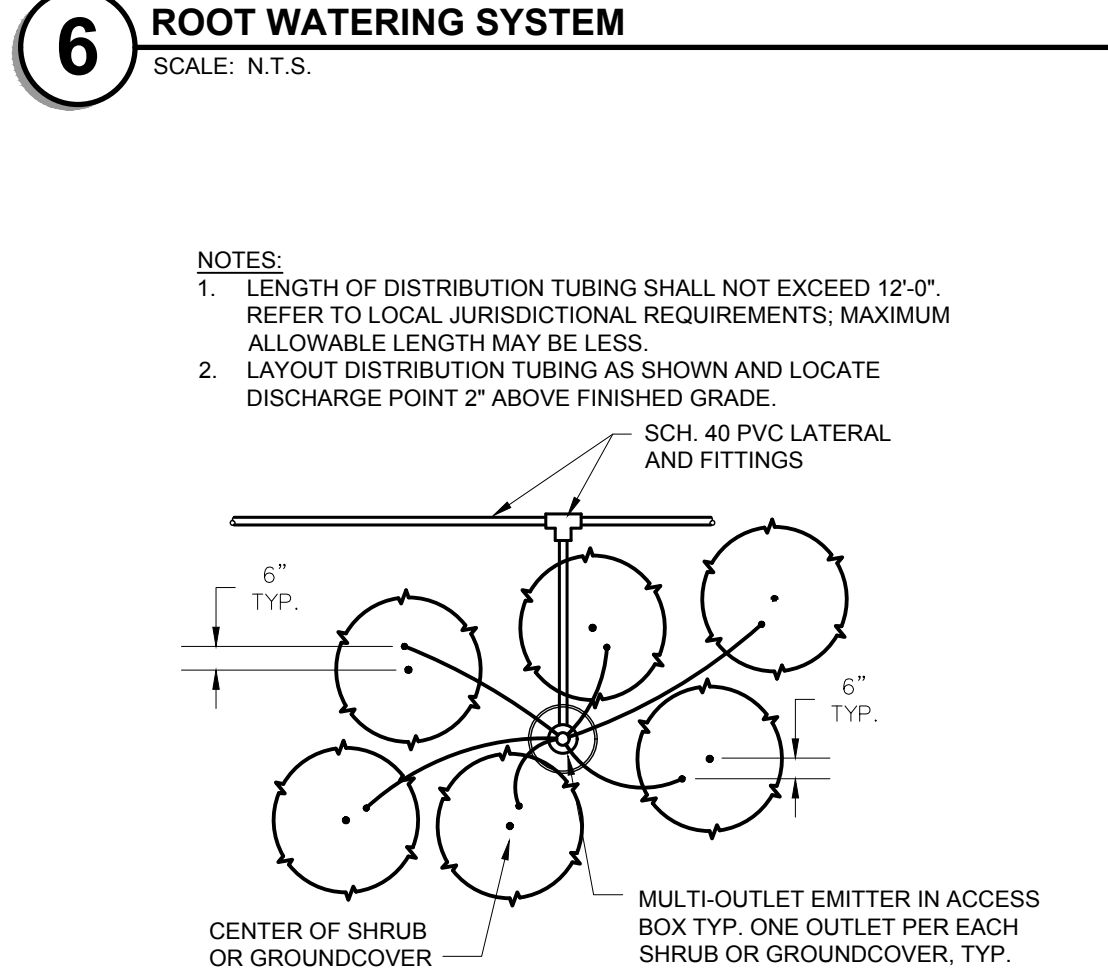
8 LATERAL FLUSHING END CAP
SCALE: N.T.S.



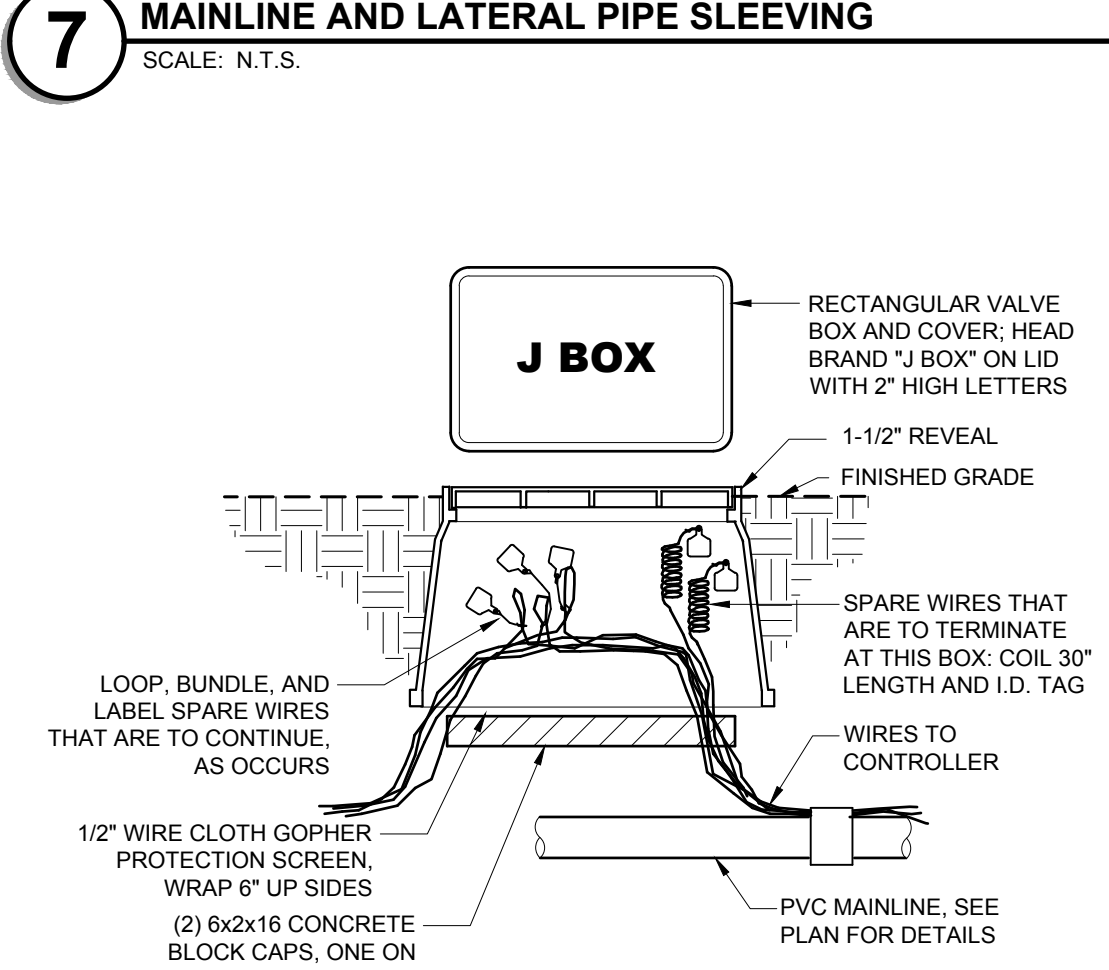
9 FLOW SENSOR ASSEMBLY
SCALE: N.T.S.



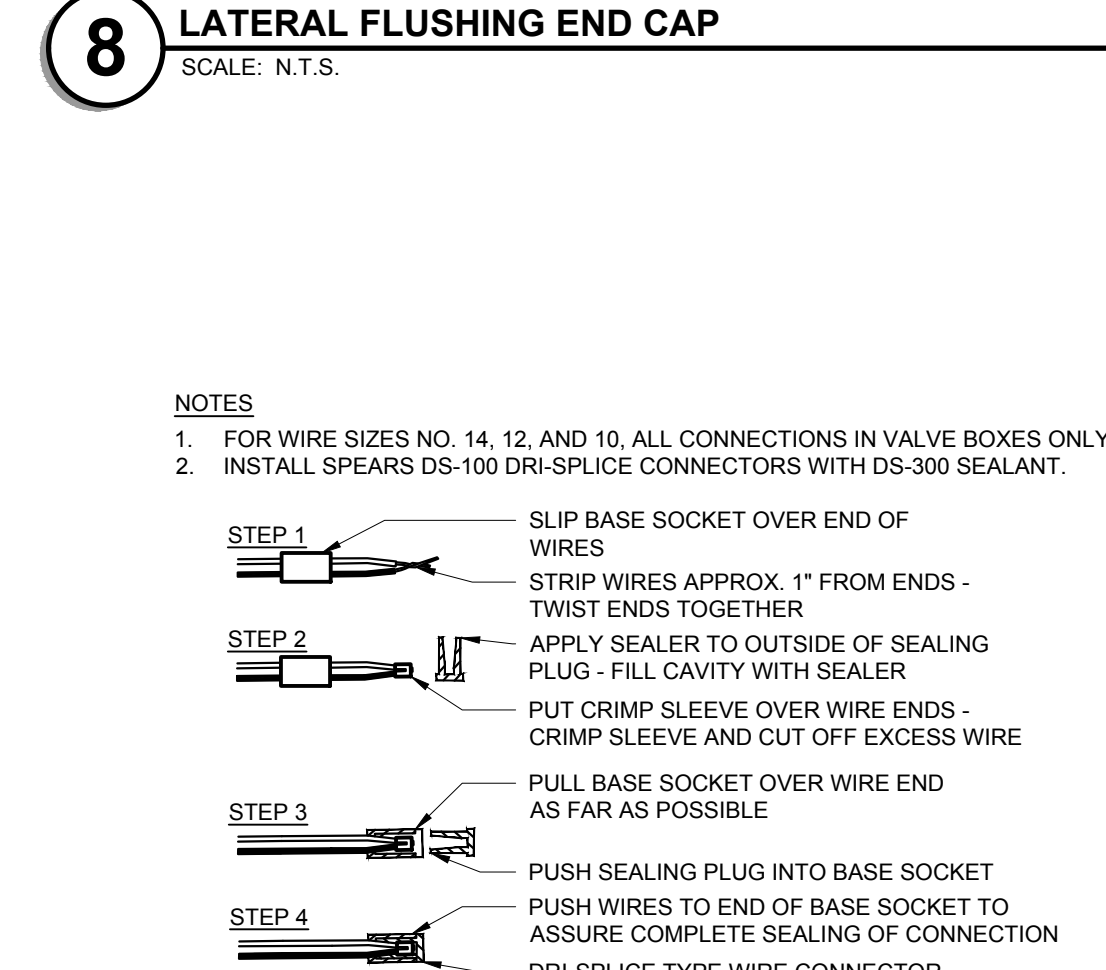
10 ELECTRIC REMOTE CONTROL VALVE KIT
SCALE: N.T.S.



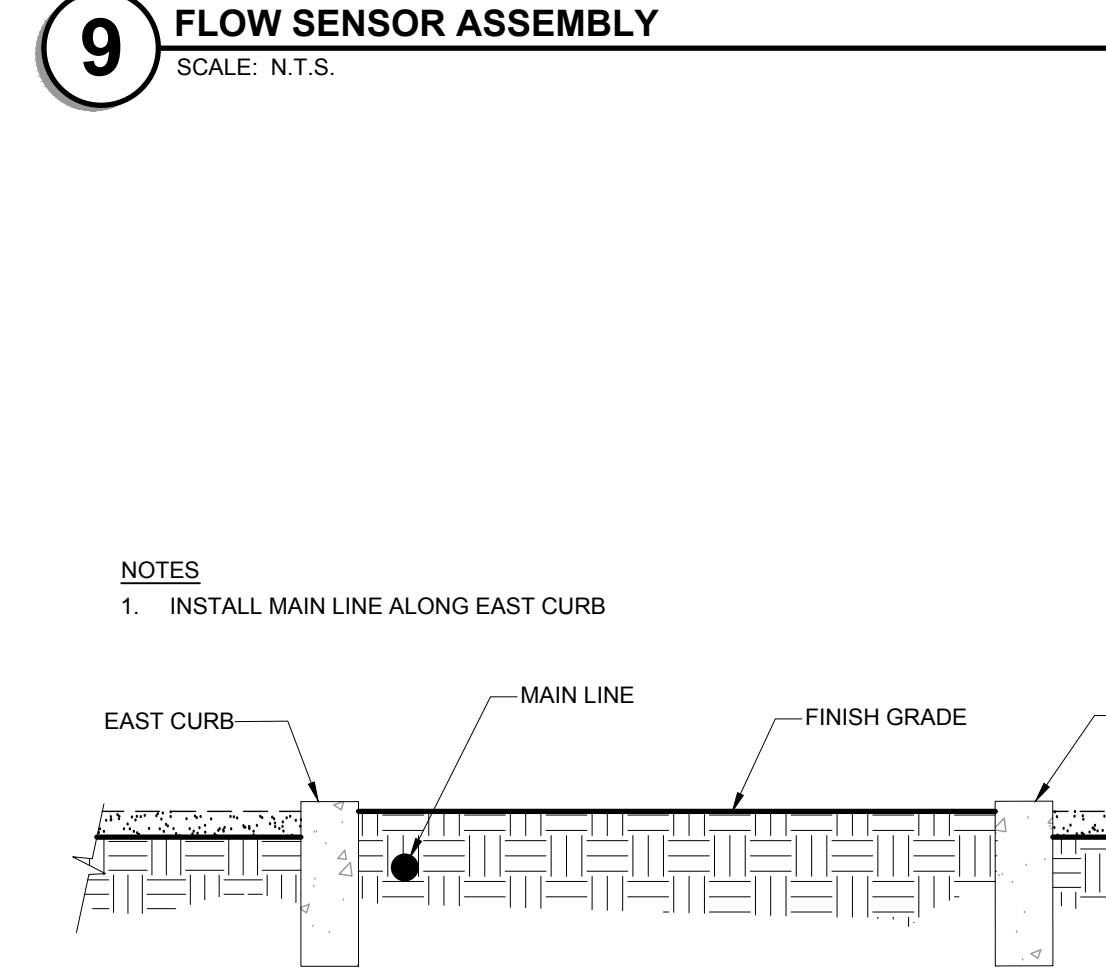
11 EMITTER DISTRIBUTION TUBING LAYOUT - SHRUBS
SCALE: N.T.S.



12 IRRIGATION WIRING JUNCTION BOX
SCALE: N.T.S.



13 IRRIGATION WIRE CONNECTION
SCALE: N.T.S.

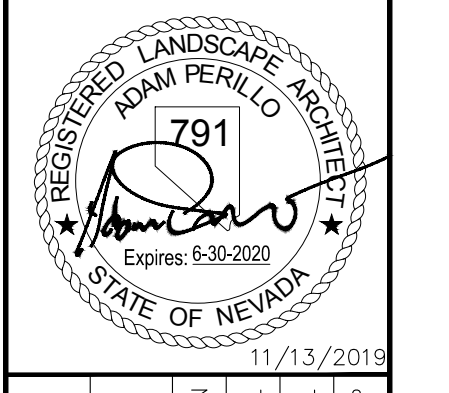


14 MEDIAN CROSS SECTION
SCALE: N.T.S.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR CONSTRUCTION	11/13/2019	KH
2	REVISED PER REVISION #2	10/23/2019	KH

Kimley-Horn

© 2019, KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



KHA PROJECT	092755002
DATE	11/13/2019
SCALE	AS SHOWN
DESIGNED BY	CHAL
DRAWN BY	CAL
CHECKED BY	ACP

IRRIGATION DETAILS

RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY, NEVADA

SHEET NUMBER
IR-05

DATE: 18-10624 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13865 (TDS UPDATE), PH 1-PW18-18981, PH 2-PW18-18982, PH 3-PW18-18983

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

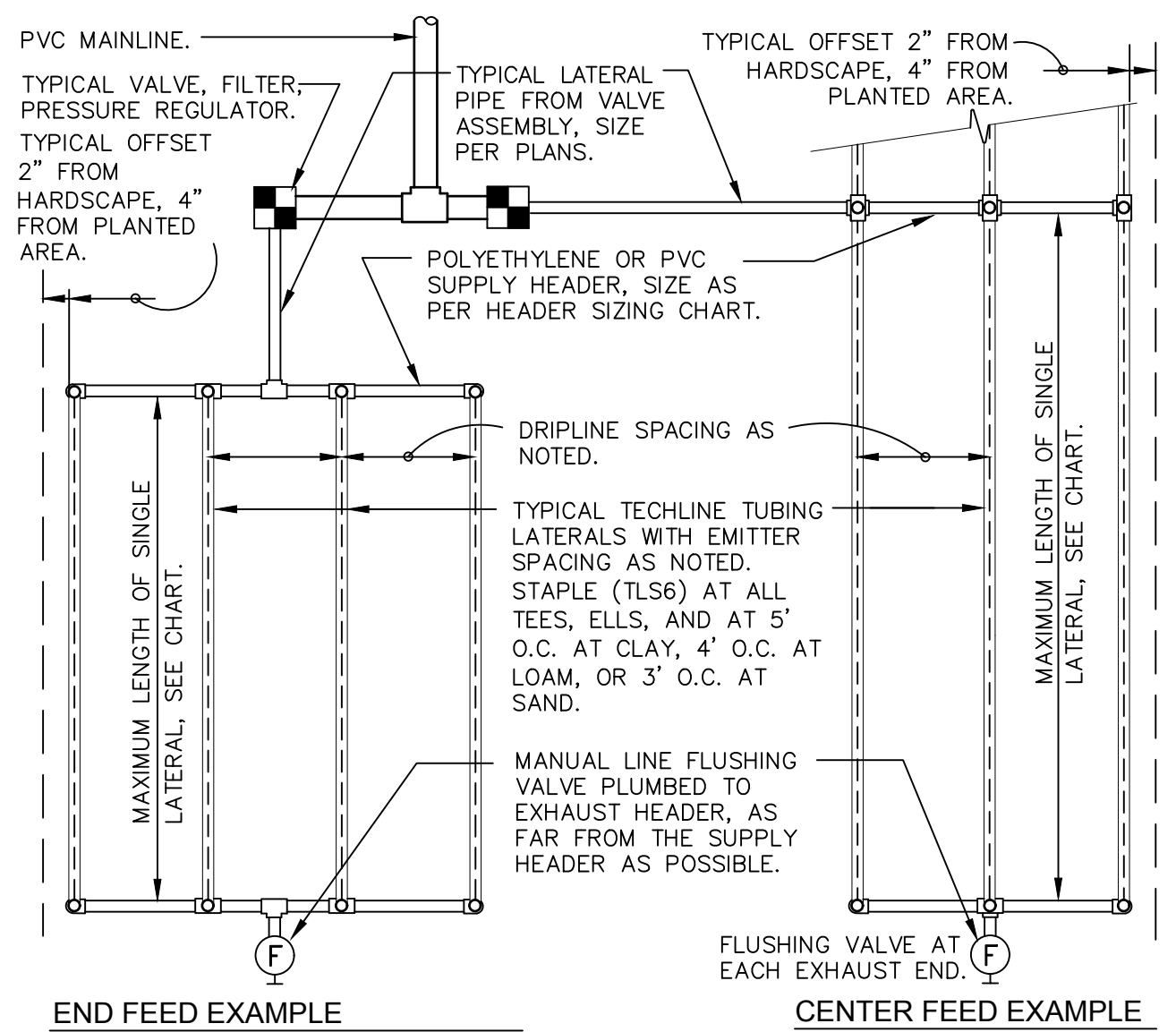
By _____

Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you Dig
UnderGround
1-702-432-5300
FREENO AND METAL, BEWARE OF TIME/POWER/FIELD

Call before you Dig
Overhead
1-800-227-2600
Avoid overhead power line contact. It's costly.

Plotted By: Ludmila, Casey, Sheet: Sct:Kha, Layout: IR-06, K:\PHX_LA\092467015_Reports World Las Vegas\Cadd\Plans\092755002-IR.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



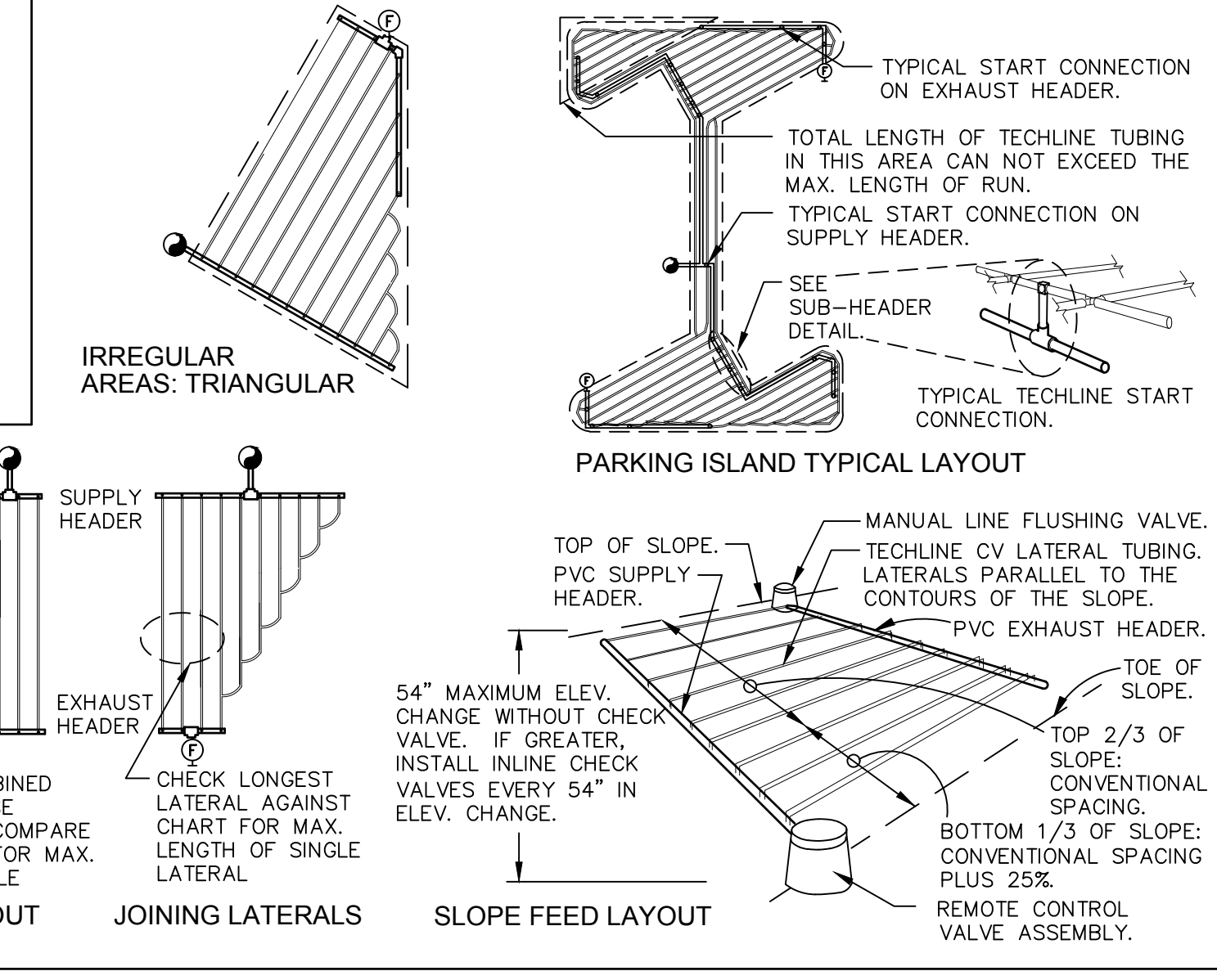
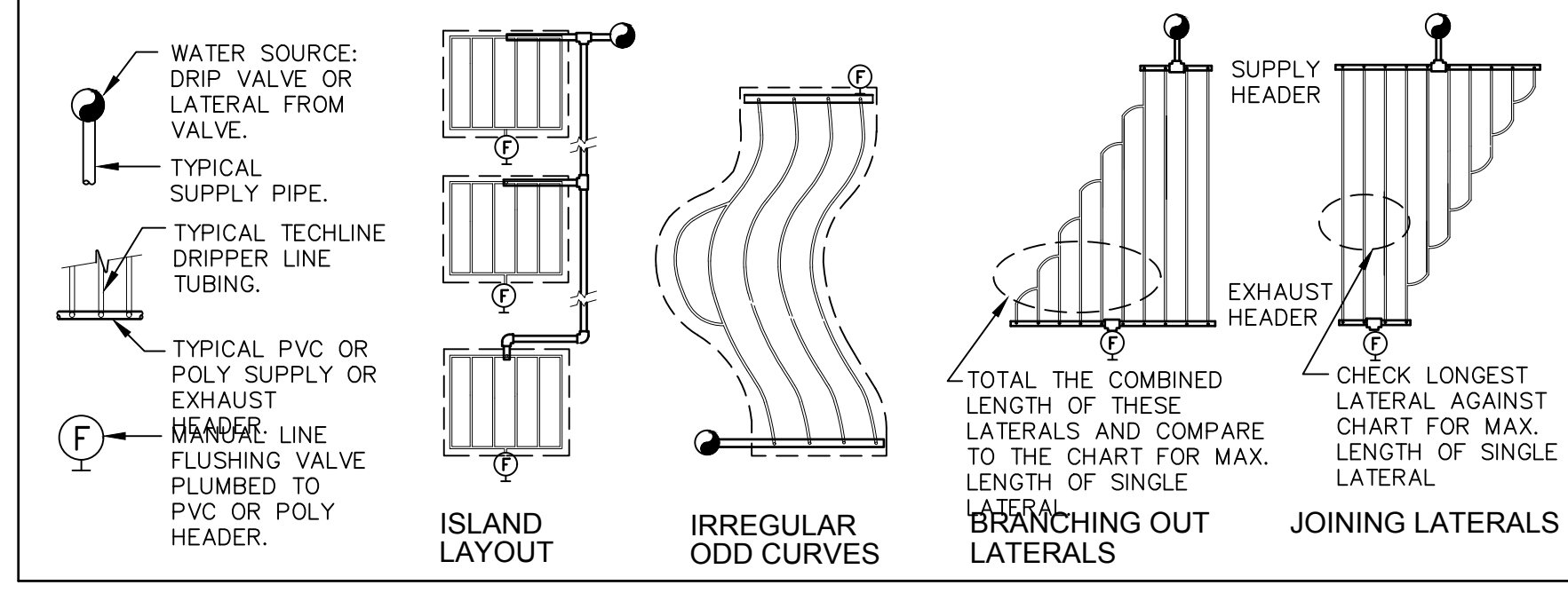
1 TYPICAL NETAFIM TECHLINE CV REQUIREMENTS
 N.T.S.

TECHLINE CV MAXIMUM LENGTH OF SINGLE LATERAL (FEET)											
DRIPPER SPACING		12"			18"			24"			
DRIPPER FLOW RATE (GPH)		0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9
INLET PRESSURE (PSI)	15	127	109	86	65	177	151	120	91	152	116
	25	427	325	256	194	604	459	361	274	458	348
	35	539	409	322	244	763	579	456	346	580	440
	45	618	469	369	280	877	664	523	397	666	506

TECHLINE FLOW PER 100 FEET								
DRIPPER SPACING	0.26 GPH DRIPPER		0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM
12"	26.40	0.44	40.00	0.67	61.00	1.02	92.00	1.53
18"	17.58	0.29	26.67	0.44	41.00	0.68	61.00	1.02
24"	N/A	N/A	N/A	N/A	31.00	0.51	46.00	0.77

SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)			
STEP 1: ADD LENGTH OF ALL TECHLINE LATERAL TUBING CONNECTED TO THE HEADER.			
STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGTH IN UNITS OF 100.			
STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "TECHLINE FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.			
STEP 4: SIZE THE HEADER WITH THE FOLLOWING:			
1 TO 6 GPM:	3/4" HEADER.	6 TO 10 GPM:	1" HEADER.
10 TO 20 GPM:	1 1/4" HEADER.	20 TO 30 GPM:	1 1/2" HEADER.

TECHLINE CV GENERAL GUIDELINES FOR WATERING TIME						
DIPPER FLOW (GPH)	TURF			SHRUB & GROUND COVER		
	CLAY	LOAM	SANDY	CLAY	LOAM	SANDY
0.26	0.4	0.6	0.6	0.26	0.4	0.6
18"	12"	12"	12"	18"	18"	12"
18"-22"	18"-22"	12"-16"	18"-24"	18"-24"	16"-20"	
.19-0.15	.43-.35	.96-.72	.19-.21	.29-.21	.72-.58	
79-100	35-43	16-21	79-107	52-71	21-26	



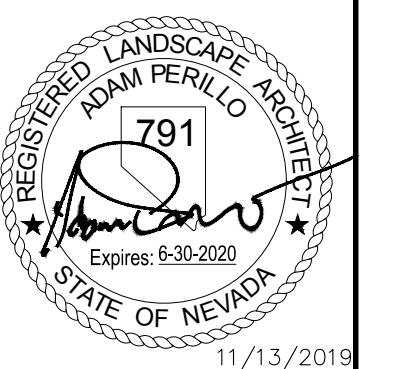
328413.56-04

CLARK COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ACCEPTED

Call before you Dig
 Call before you Overhead
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

NO.	REVISIONS	DATE	BY
1	ISSUED FOR CONSTRUCTION	11/13/2019	KH
2	REVISED PER REVISION #2	10/23/2019	KH

Kimley-Horn
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.
 6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
 PHONE: 702-862-3600
 WWW.KIMLEY-HORN.COM



KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092755002	11/13/2019	AS SHOWN	CALL	CALL	ACP

IRRIGATION DETAILS
 SHEET NUMBER
IR-06

RESORTS WORLD - LAS VEGAS
 OFFSITE IMPROVEMENT
 PLANS (L-2210)
 PREPARED FOR
 RESORTS WORLD LAS VEGAS, LLC
 CLARK COUNTY, NEVADA
 SHEET 337 OF 345

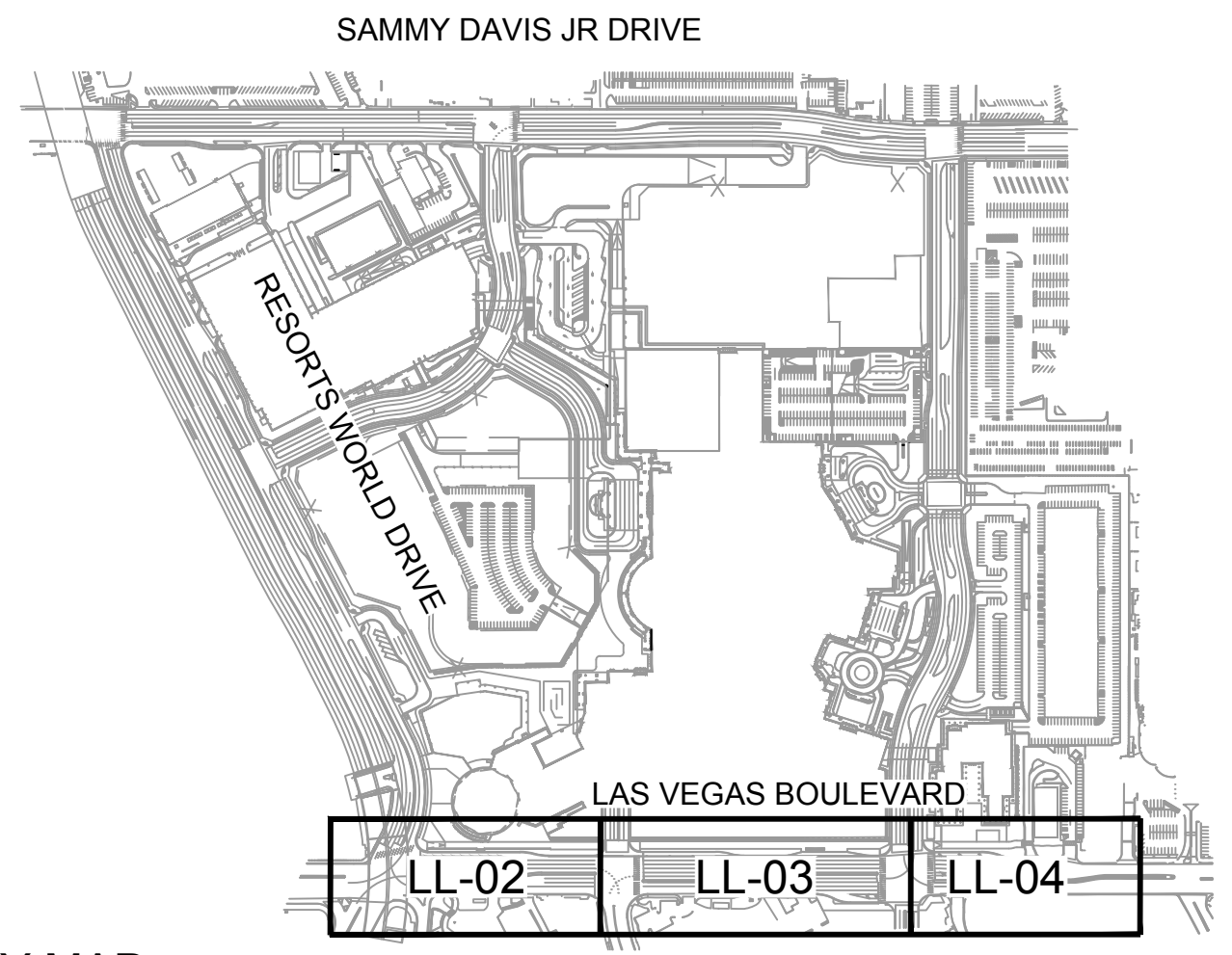
Plotted By: LudWig_Casey_Sheet_Sett:Kha_Layout:LL-01 K:\PHX_LA\092467019_Resorts_World_Las_Vegas_Cadd\Plans\CDA\092755002-LL.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL LIGHTING NOTES

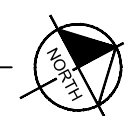
1. THIS PLAN IS INTENDED FOR LANDSCAPE LIGHTING PURPOSES ONLY. INSTALLATION CONTRACTOR SHALL BE CERTIFIED FOR ELECTRICAL INSTALLATIONS. ALL LIGHTING FIXTURES AND TRANSFORMERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (CURRENT EDITION) AND ALL LOCAL BUILDING SAFETY CODES AND ORDINANCES.
2. FIXTURES ARE SHOWN IN APPROXIMATE LOCATION. THE CONTRACTOR SHALL FIELD VERIFY THE ACTUAL PLACEMENT OF EACH FIXTURE UPON COMPLETION OF LANDSCAPE INSTALLATION.
3. ALL PATHLIGHTS TO BE INSTALLED AT A MINIMUM OF 18" FROM ANY SIDEWALK OR STRUCTURE.
4. ALL HUBS SHALL BE LABELED AND INSTALLED PRIMARILY IN PLANTER AREAS 2' ABOVE FINISHED GRADE, OR IN A READILY ACCESSIBLE AREA THAT DOES NOT OBSTRUCT PATHWAYS, DRAINAGE SWALES OR COMMON AREAS.
5. ALL "HOME RUN" WIRE SHALL BE LABELED AND INSTALLED AT A MINIMUM DEPTH OF 6". ALL FIXTURE LEAD WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6".
6. IN ORDER TO MINIMIZE FUTURE DISTURBANCE, ALL WIRE RUNS SHALL BE INSTALLED PARALLEL AND ADJACENT TO HARD SURFACES SUCH AS SIDEWALKS, DRIVEWAYS AND WALLS.
7. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVES UNDER THE HARDSCAPE SURFACES, USING A MINIMUM 1-INCH PVC PIPE.
8. CONTRACTOR SHALL NOT CUT THE WIRE LEADS FROM THE FIXTURES. LEAVE EXCESS WIRE AT THE FIXTURE END AND A MINIMUM OF 2' AT EACH HUB.
9. ALL UNDERGROUND SPLICES SHALL BE INSTALLED IN APPROVED IN-GROUND HUBS WITH WATER-TIGHT CONNECTIONS.
10. ALL EXTERIOR 120-VOLT ELECTRICAL OUTLETS SHALL BE GFI PROTECTED AS PER NATIONAL ELECTRICAL CODE.
11. ALL TRANSFORMERS PLUGGED INTO AN OUTDOOR RECEPTACLE SHALL HAVE AN "IN USE" COVER. CONTRACTOR SHALL INSTALL TAYMAC TYPE COVERS AT ALL OUTLETS.
12. ALL PLUG-IN TRANSFORMERS SHALL HAVE A "DRIP LOOP" IN THE POWER CORD.
13. ALL EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDINGS.
14. ALL WIRE SHALL CONFORM TO ASTM B-49 AND B-115 STANDARDS: 99% PURE PVC PLASTIC MIXED WITH THE LATEST IN UV INHIBITORS, 99.5% PURE COPPER.
15. ALL EXPOSED WIRES SHALL BE PROTECTED AND PAINTED.
16. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE FIXTURES AT NIGHT TO HELP ELIMINATE GLARE AND TO ENSURE OPTIMUM LIGHTING EFFECT.
17. THE GLARE CONTROL KIT SHALL CONSIST OF A ROTATIONAL SHROUD, FROSTED, LINEAR AND SPREAD LENS AND A HEX LOUVER TO MINIMIZE GLARE UP TO A 45 DEGREE ANGLE.
18. A FROSTED LENS SHALL BE USED IN ANY DOWN LIGHT THAT IS PLACED UNDER 12' IN HEIGHT.

LANDSCAPE LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD
	ELECTRICAL NO. 3 1/2 PULL BOX
	3/4" ELECTRICAL UNDERGROUND CONDUIT
	2" ELECTRICAL UNDERGROUND CONDUIT



KEY MAP
NTS



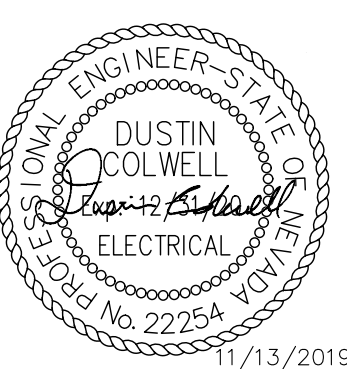
CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

By _____
Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you dig
UnderGround
1-702-432-5300
1-800-227-2600
1-702-227-2929

NO.	REVISIONS	DATE	BY
1	ISSUED FOR CONSTRUCTION	10/23/2019	KH
2	REVISE PER REVISION #2	11/13/2019	KH

Kimley-Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM



KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
092755002	11/13/2019	AS SHOWN	DJC	MT	DJC

LANDSCAPE LIGHTING NOTES

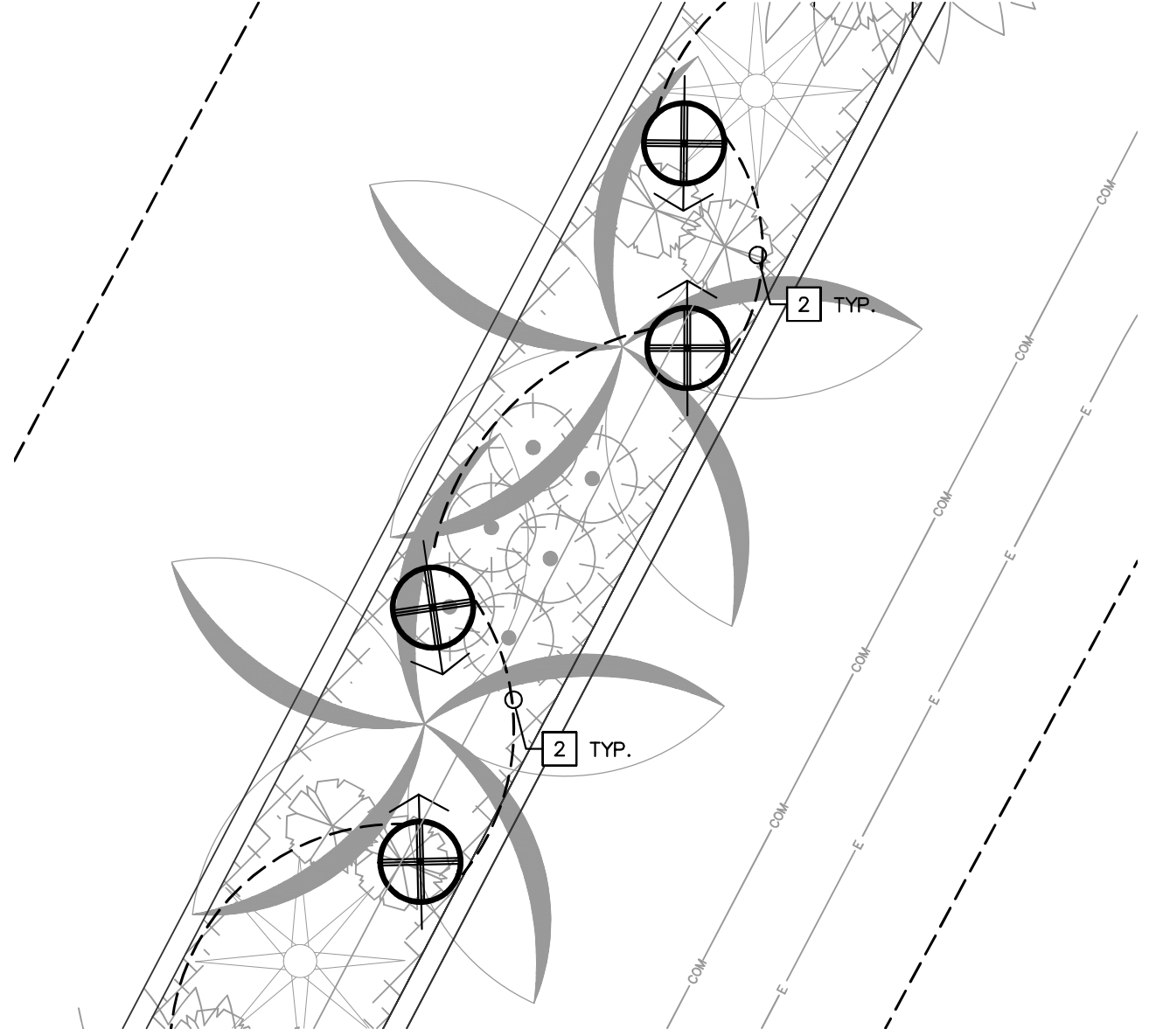
RESORTS WORLD - LAS VEGAS
OFFSITE IMPROVEMENT
PLANS (L-2210)
PREPARED FOR
RESORTS WORLD LAS VEGAS, LLC
CLARK COUNTY NEVADA

SHEET NUMBER
LL-01

Plotted By: Ludwig, Casey Sheet: Sht:Kha Layout:LL-02 K:\PHX\LA\092467015_Resorts World Las Vegas\Cadd\Plans\CDs\092755002-LL.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and approval by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

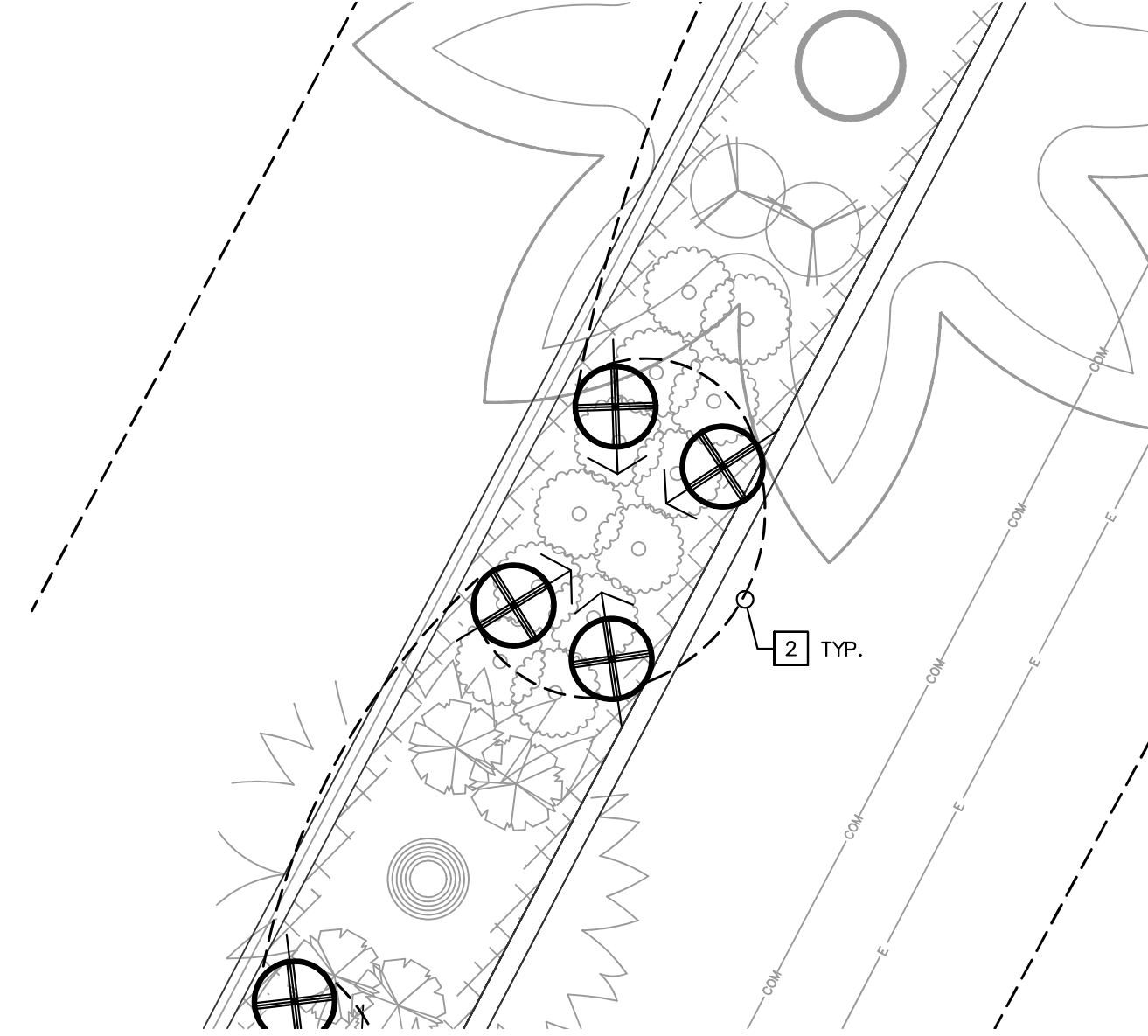
ENLARGEMENT 'A' - LIGHT LAYOUT

TWO FIXTURES PER WASHINGTONIA AND PINDO PALM, TYP.



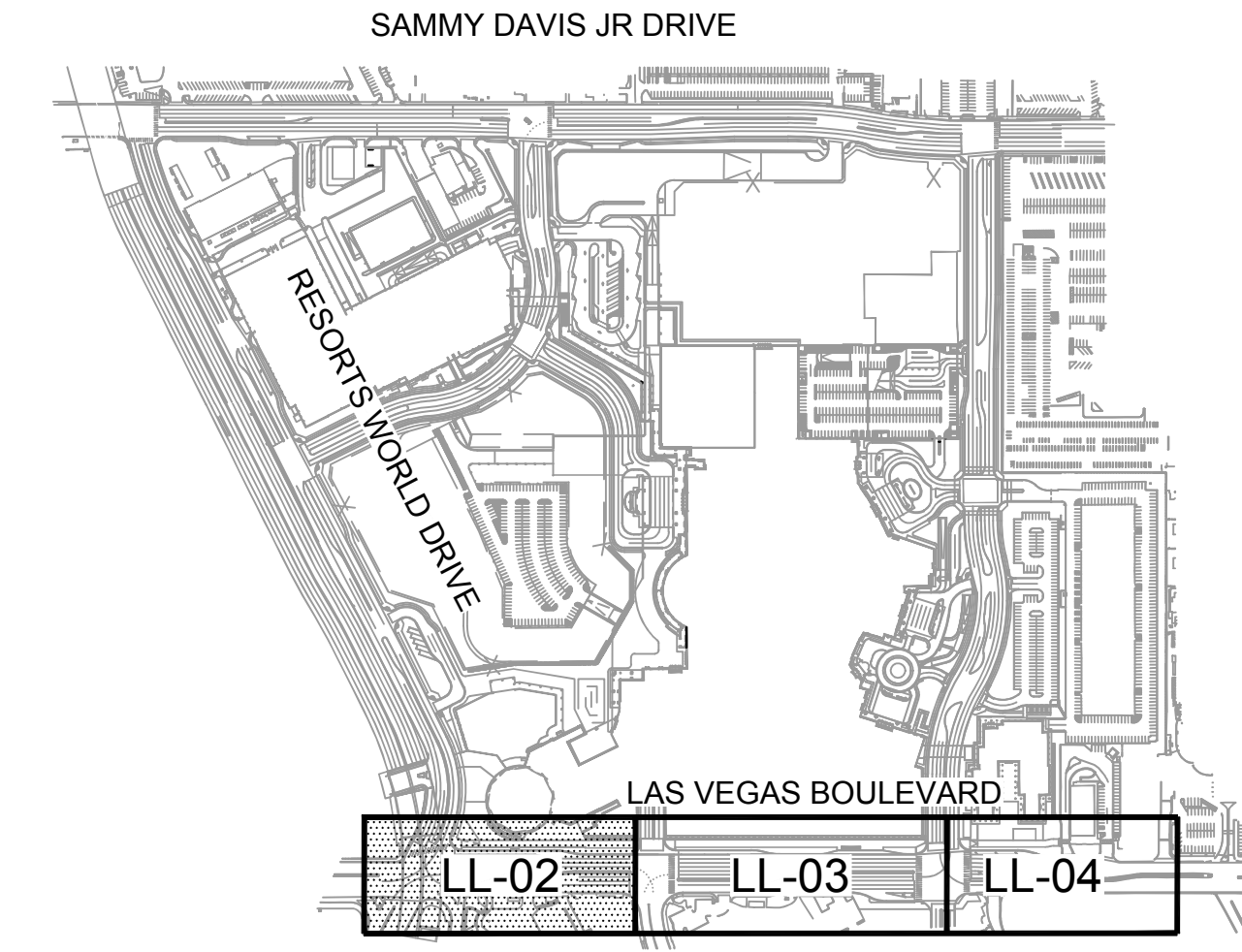
ENLARGEMENT 'B' - LIGHT LAYOUT

FOUR FIXTURES PER CANARY PALM, TYP.

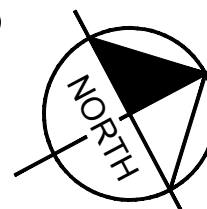
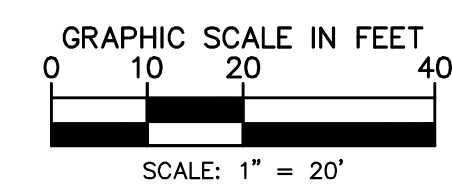
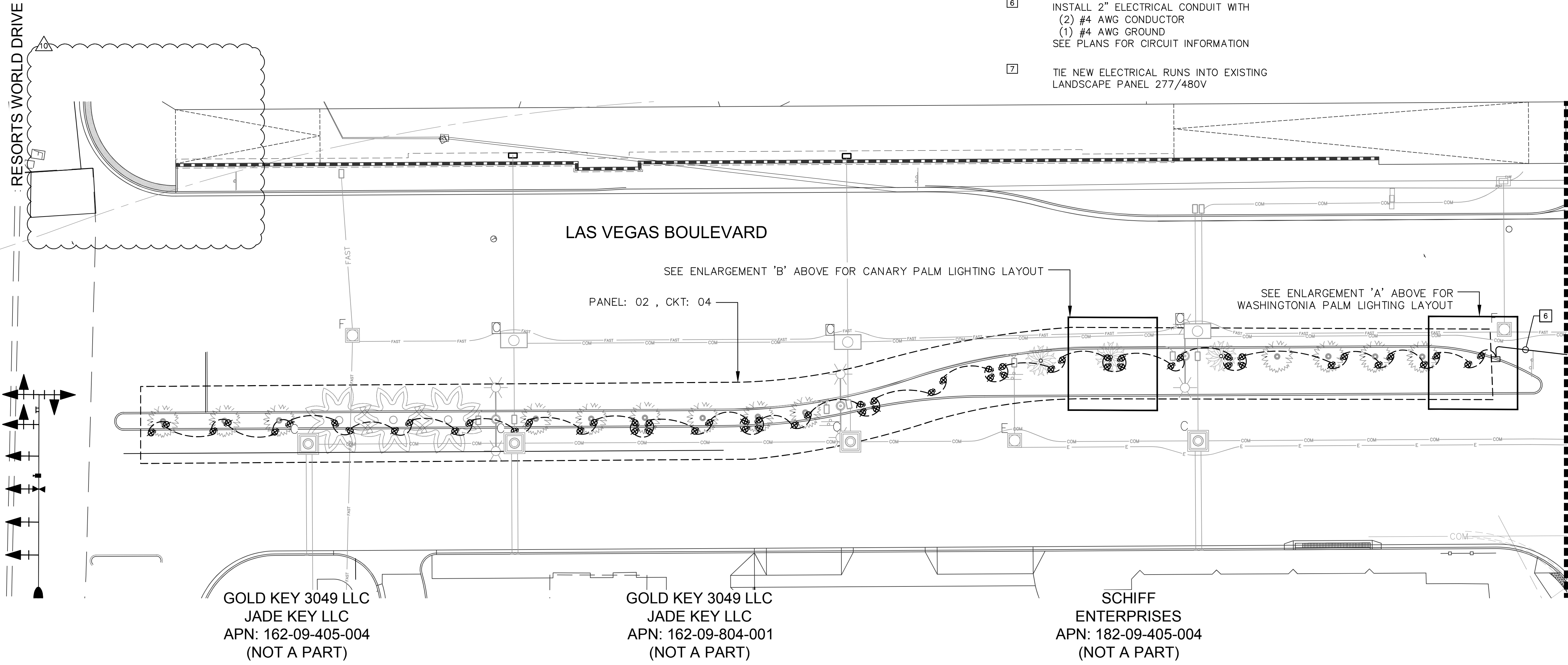


LANDSCAPE LIGHTING SCHEDULE

DESCRIPTION	
LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD	
CONSTRUCTION NOTES	
SYMBOL	DESCRIPTION
1	INSTALL NEW ELECTRICAL PULL BOX
2	INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG CONDUCTOR (1) #8 AWG GROUND SEE PLANS FOR CIRCUIT INFORMATION
3	INSTALL 2" ELECTRICAL CONDUIT WITH (6) #6 AWG CONDUCTOR (2) #4 AWG CONDUCTOR (1) #4 AWG GROUND SEE PLANS FOR CIRCUIT INFORMATION
4	INSTALL 2" ELECTRICAL CONDUIT WITH (4) #6 AWG CONDUCTOR (2) #4 AWG CONDUCTOR (1) #4 AWG GROUND SEE PLANS FOR CIRCUIT INFORMATION
5	INSTALL 2" ELECTRICAL CONDUIT WITH (2) #6 AWG CONDUCTOR (2) #4 AWG CONDUCTOR (1) #4 AWG GROUND SEE PLANS FOR CIRCUIT INFORMATION
6	INSTALL 2" ELECTRICAL CONDUIT WITH (2) #4 AWG CONDUCTOR (1) #4 AWG GROUND SEE PLANS FOR CIRCUIT INFORMATION
7	TIE NEW ELECTRICAL RUNS INTO EXISTING LANDSCAPE PANEL 277/480V



KEY MAP
NTS



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

By: _____
Acceptance of these plans shall not be construed to be a permit for or an approval of any violation of state, county or federal law, specifications, or the Manual on Uniform Traffic Control Devices.

Call before you dig
 Call before you dig
 Call before you dig
 1-702-432-5300
 1-800-227-2600
 1-702-227-2929

Kimley-Horn © 2019 KIMLEY-HORN AND ASSOCIATES, INC. 6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119 PHONE: 702-862-3600 WWW.KIMLEY-HORN.COM	LVB-GENTING INTERSECTION REVISION 04/20/2021 KH
	REVISION PER REVISION #2 11/13/2019 KH
	ISSUED FOR CONSTRUCTION 10/23/2019 KH
	REVISIONS DATE BY
PROJECT: KHA PROJECT 092755002 DATE: 11/13/2019 SCALE: AS SHOWN DESIGNED BY: DJC DRAWN BY: MT CHECKED BY: DJC	
LANDSCAPE LIGHTING PLAN	
RESORTS WORLD - LAS VEGAS OFFSITE IMPROVEMENT PLANS (L-2210) PREPARED FOR RESORTS WORLD LAS VEGAS, LLC CLARK COUNTY NEVADA	
SHEET NUMBER LL-02	
HTE #15-54215 (TDS), 18-10524 (TDS UPDATE), 18-17163 (TDS UPDATE), 19-13855 (TDS UPDATE), 19-13855 (TDS UPDATE)	

