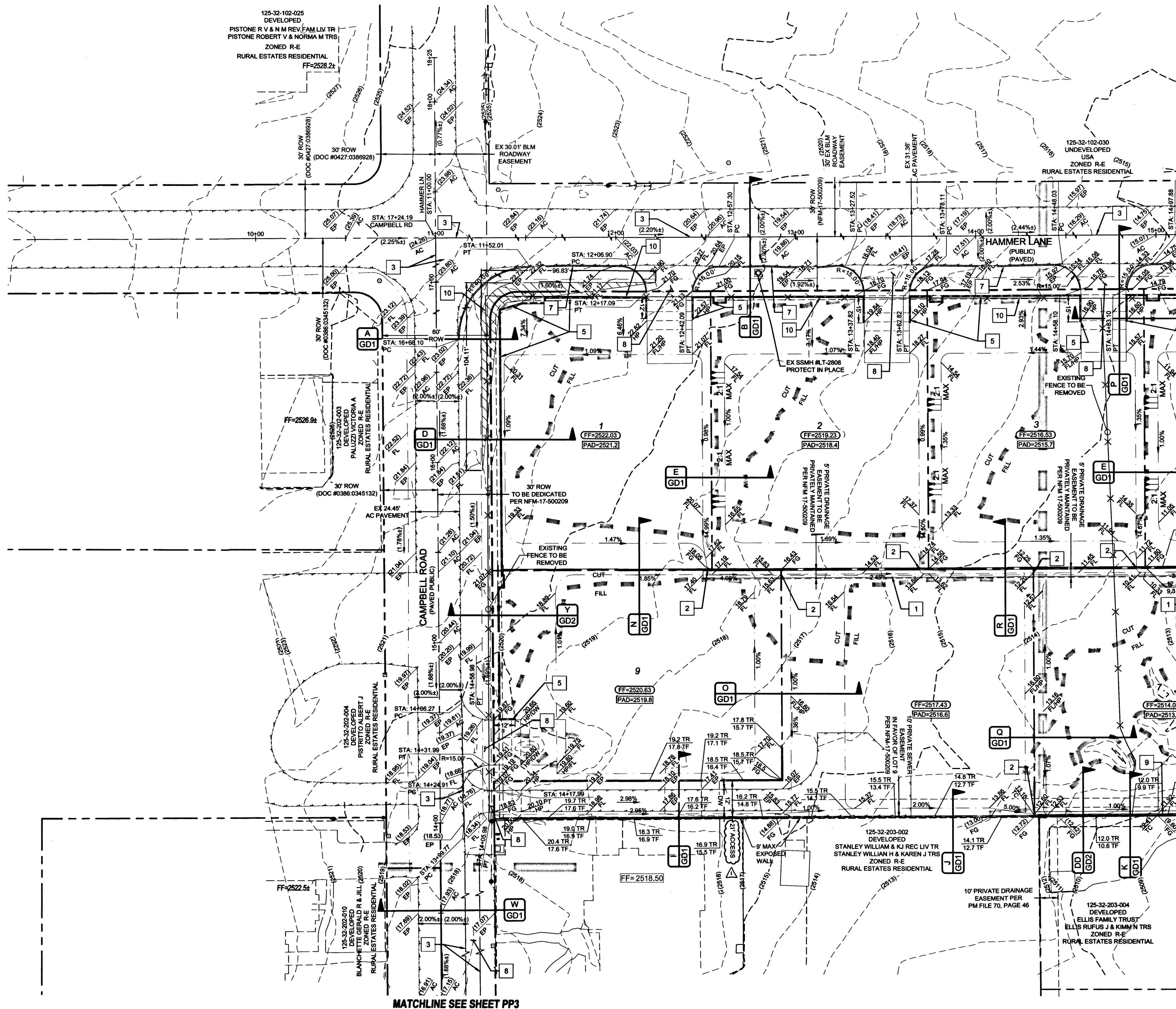




MATCHLINE SEE SHEET PP3

MATCHLINE SEE SHEET G2

SIGHT VISIBILITY ZONES (SVZ)

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. (CCAUD 201)

APPROVED FOR CONSTRUCTION

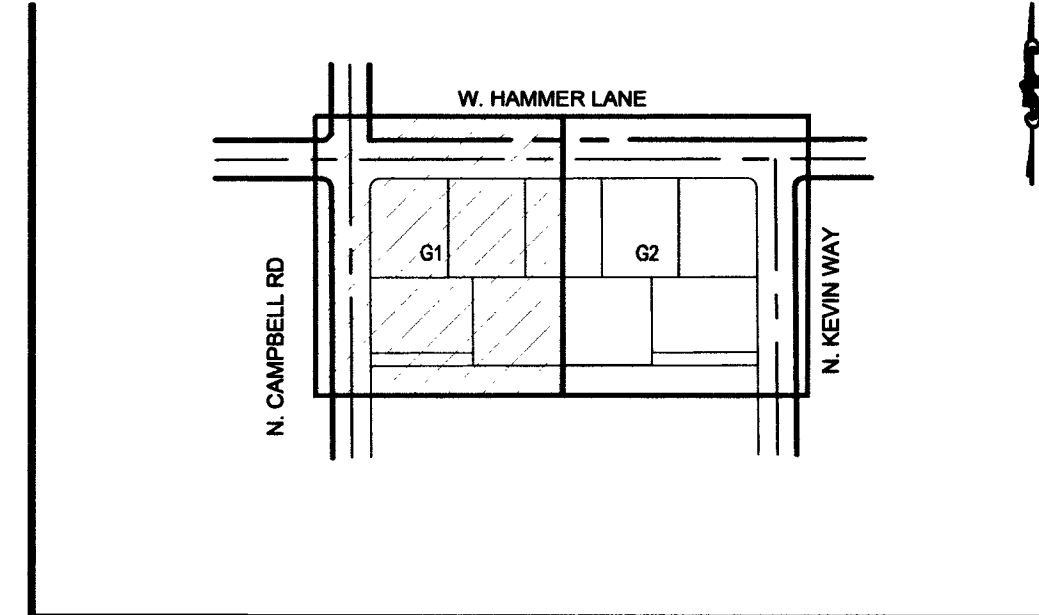
Stanley Fong
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 02-21-18 PROJECT# 125555
LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

FAST
Call before you
Underground
1-702-432-5300
FIREWAY & ARTISANAL
SYSTEM OF TRANSPORTATION

Avoid overhead power
line contact. It's costly.
Call before you Overhead
1-702-227-2929

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

KEY MAP

SCALE: 1" = 30'
30' 15' 30' 60' 90'

GRADING CONSTRUCTION NOTES

- 5' CONCRETE CHANNEL (SEE DETAIL 'G' ON GD1)
- INSTALL 48"x16" BLOCK WALL OPENING (SEE DETAIL 'H' ON GD1)
- SAWCUT & REMOVE EX AC PAVEMENT (PER CCAUSD 503, 500.3 & 1)
- 3" AC PAVEMENT OVER 4" TYPE II (PER GEOTECHNICAL REPORT #)
- SOLID GROUT 3 COURSES ABOVE FG MIN.
- DECORATIVE 6" BLOCK WALL
- 2' CUT-OFF WALL (DETAIL U/GD1)
- DRIVEWAY: 2" AC OVER 4" TYPE II (DETAIL P/GD1) (SEE DRIVEWAY NOTE ON THIS SHEET)
- INSTALL 24" L-TYPE CURB & GUTTER (USD #216)

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACHES IN RIGHT-OF-WAY ARE NON-STANDARD IMPROVEMENTS AND ARE NOT MAINTAINED BY CLARK COUNTY PUBLIC WORKS.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
6835 S. ESCONCADO ST. STE. B
LAS VEGAS, NV 89119
(702) 897-1424
REPORT NO.: 11240-LVR6
DATE: 06/18/13
REVISED: 01/20/15 UPDATE: 06/02/17

BASIS OF BEARING

NORTH 88°40'09" EAST

BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, N.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88

CITY OF LAS VEGAS BM NO. 92V0322W6 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142 SOUTH OF WASHBURN ROAD
NAVD88 ELEV: 2507.82 (FEET)
774.329 (METERS)

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 2,917 CY CUT / 4,849 CY FILL / 1,932 CY NET

NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOOD ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FIRM PANEL 32003C1745E, REVISED SEPTEMBER 27, 2002.

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

GRADING NOTES

COMPLETION OF SECTION II OF DRAINAGE COMPLIANCE REPORT REQUIRED FOR: ALL LOTS IN THE PROJECT.

ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, HTE# 17-31986, ON FILE WITH CLARK COUNTY FOR THIS PROJECT.

STANLEY FONG, P.E.

5-10-18

DATE

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: *WAM*

6/21/18

DATE

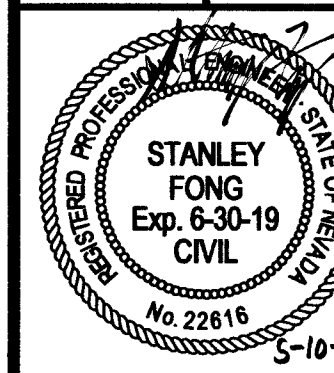
ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING 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.

THM ENTERPRISES LLC

808 W. RUSSELL ROAD STE. 235
LAS VEGAS, NV 89119
(702) 824-3131 FAX: (702) 824-3889HAMMER & KEVIN
A RESIDENTIAL SUBDIVISION

GRADING PLAN 1



DATE: 5/10/2018

SCALE: 1"=30'

JOB NO: THM-17-013

DESIGNED BY: SB CHECKED BY: SF

SHEET NAME: G1

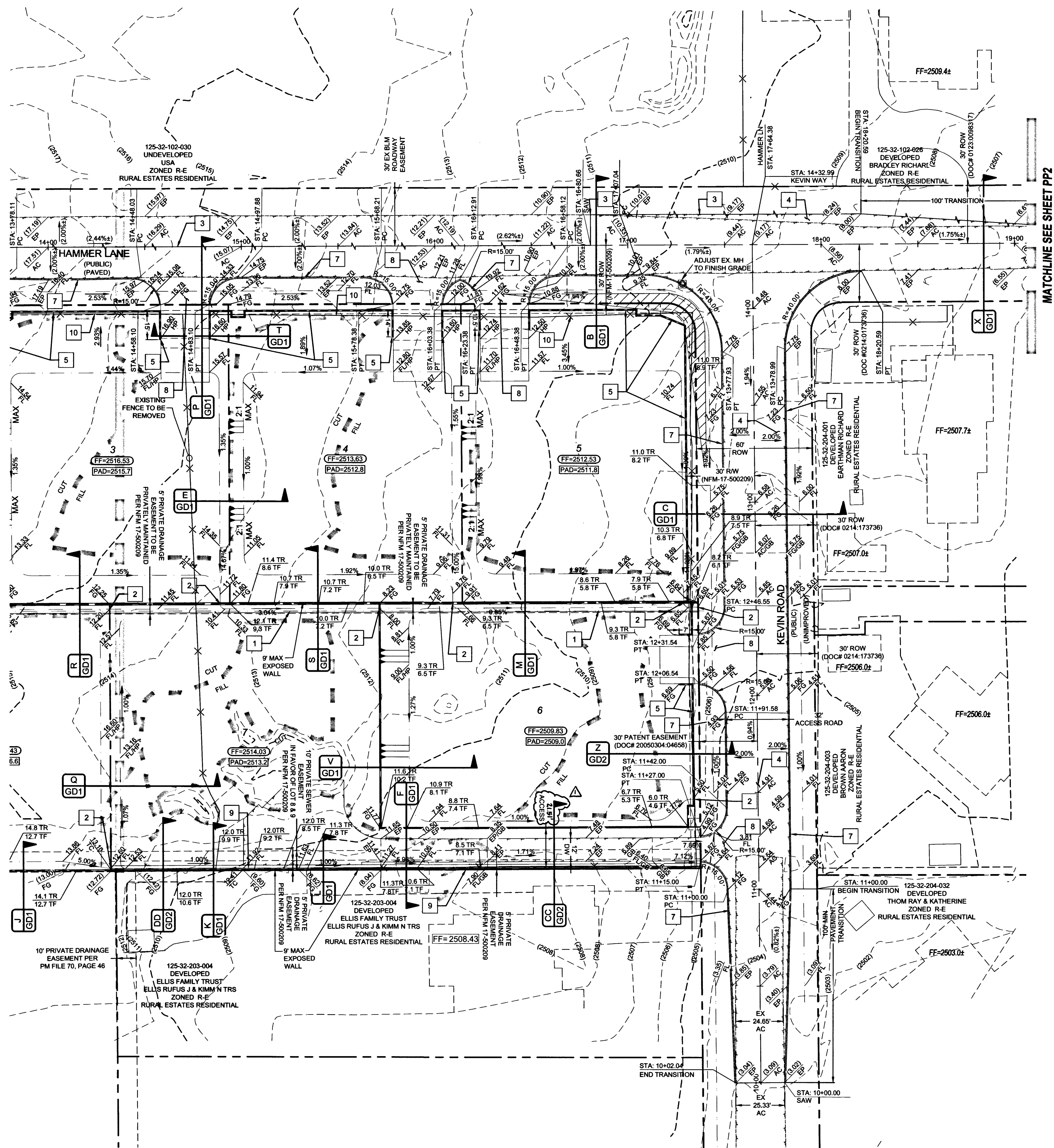
SHEET NUMBER: 03 OF 15

307V1141

CLV L17-01036

CC HTE# PW17-39989-SDF

MATCHLINE SEE SHEET G1



MATCHLINE SEE SHEET PP2

SIGHT VISIBILITY ZONES (SVZ)
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, (CCAUD 201)

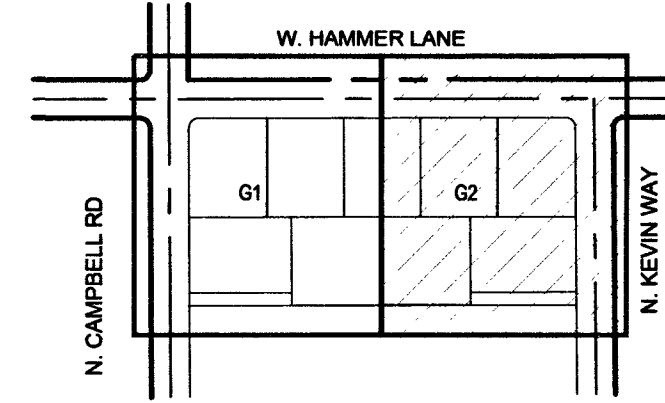
APPROVED FOR CONSTRUCTION
Shanna Dean
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 5-2-18 PROJECT: 125555
LVWDV APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

FAST
Call before you
Underground
1-702-432-5300
FREEMAN & ARTERIAL
SYSTEM OF TRANSPORTATION

Avoid overhead power
line contact. It's costly.
**Call before you
Overhead**
1-702-227-2929

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

KEY MAP



SCALE: 1" = 30'
30' 15' 30' 60' 90'

GRADING CONSTRUCTION NOTES

- 5.0' CONCRETE CHANNEL (SEE DETAIL 'G' ON GD1)
- INSTALL 48"x16" BLOCK WALL OPENING (SEE DETAIL 'H' ON GD1)
- SAWCUT & REMOVE EX AC PAVEMENT (PER CCAUSD 503, 500.3 & 500.4)
- 3" AC PAVEMENT OVER 4" TYPE II (PER GEOTECHNICAL REPORT # DW17-42287)
- SOLID GROUT 3 COURSES ABOVE FG MIN.
- DECORATIVE 8" BLOCK WALL
- 2' CUT-OFF WALL (DETAIL UGD1)
- DRIVEWAY: 2" AC OVER 4" TYPE II (DETAIL PGD1) (SEE DRIVEWAY NOTE ON THIS SHEET)
- INSTALL 24" L-TYPE CURB & GUTTER (USD #216)

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACHES IN RIGHT-OF-WAY ARE NON-STANDARD IMPROVEMENTS AND ARE NOT MAINTAINED BY CLARK COUNTY PUBLIC WORKS.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NV 89119
(702) 897-1424

REPORT NO: 11240-LVR6
DATE: 06/18/15
REVISED: 01/20/15 UPDATE: 06/02/17

BASIS OF BEARING

NORTH 89°40'09" EAST

BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BM NO. 31.VB032286 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD

NAVD88 ELEV: 2507.62 (FEET)
764.329 (METERS)

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 2,917 CY CUT / 4,849 CY FILL / 1,932 CY NET

NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOOD ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FIRM PANEL 32003C1745E, REVISED SEPTEMBER 27, 2002.

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

GRADING NOTES

COMPLETION OF SECTION II OF DRAINAGE COMPLIANCE REPORT REQUIRED FOR: ALL LOTS IN THE PROJECT

ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, HTE# 17-31956, ON FILE WITH CLARK COUNTY FOR THIS PROJECT.

STANLEY FONG, PE

5-10-18
DATE

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: *WAM*

6/21/18
DATE

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.

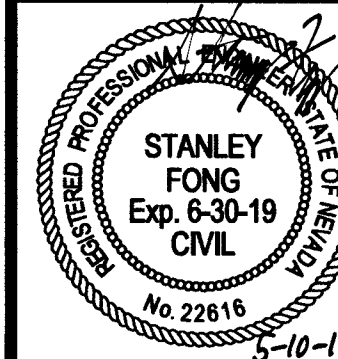
THM ENTERPRISES LLC
9245 W. RUSSELL ROAD STE. 233
LAS VEGAS, NV 89119
(702) 924-3131 FAX: (702) 924-3889

ANNEY & ENGINEERING
1111 S. RIVINGTON AVE. SUITE 100
LAS VEGAS, NV 89119
(702) 362-8444 FAX: (702) 362-5233

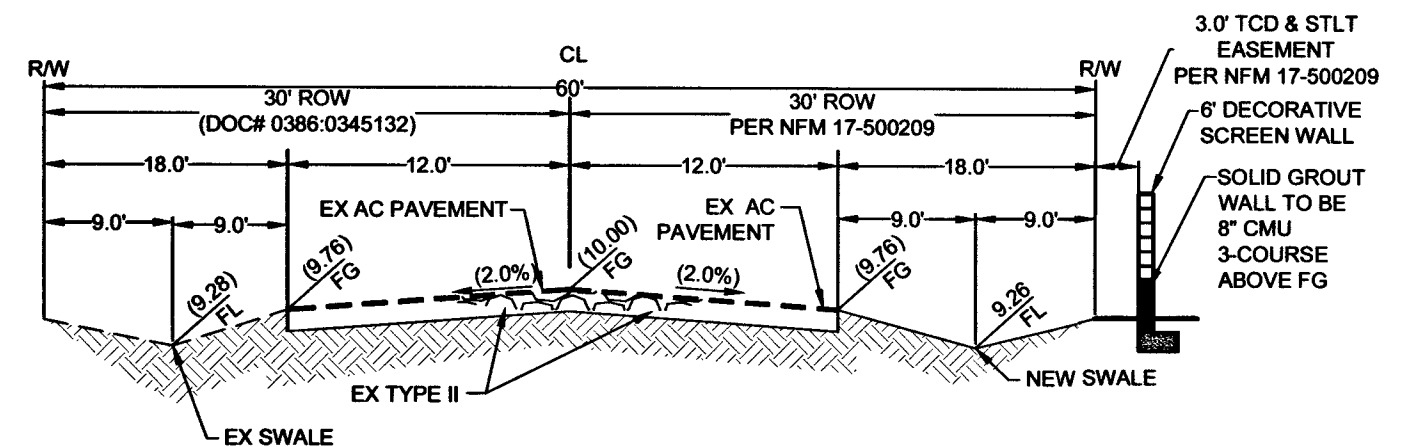


HAMMER & KEVIN
A RESIDENTIAL SUBDIVISION

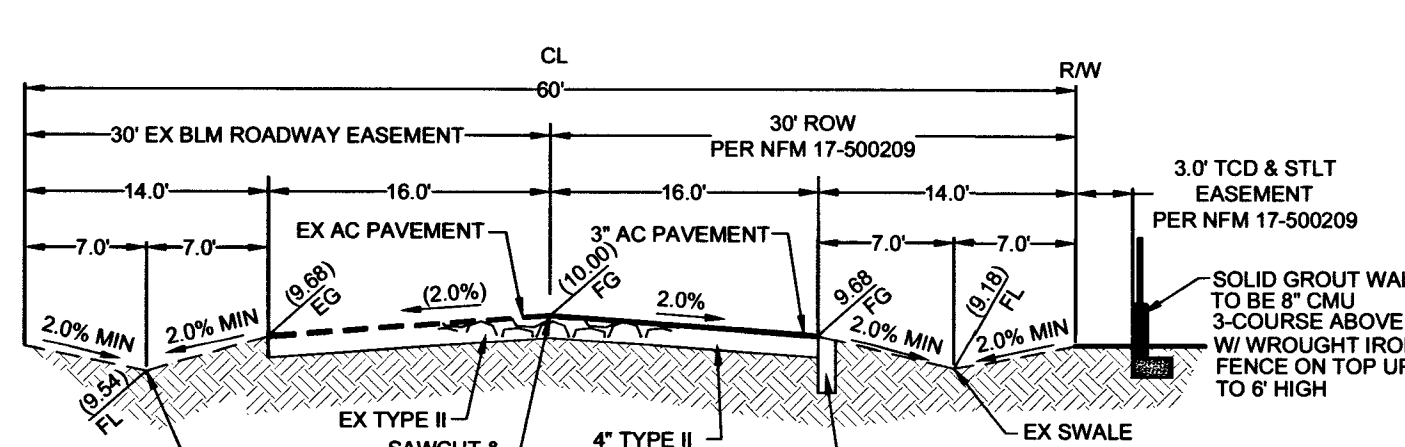
GRADING PLAN 2



DATE: 5/10/2018
SCALE: 1"=30'
JOB NO: THM-17-013
DESIGNED BY: SB CHECKED BY: SF
SHEET NAME: G2
SHEET NUMBER: 04 OF 15
CLV: 307Y1114
L17-01036
CC HTE# PW17-39999-SDF

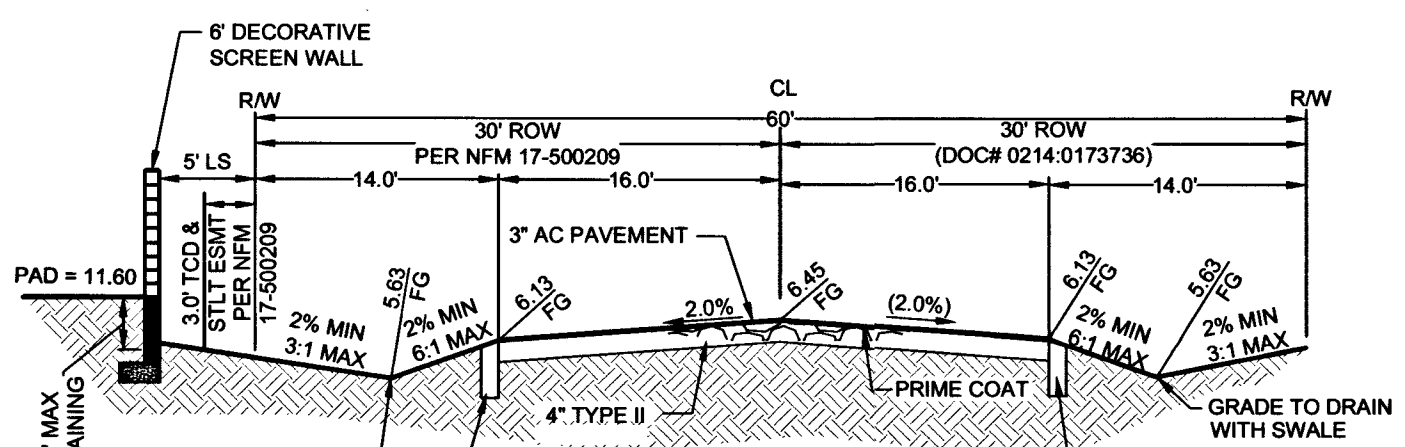


CAMPBELL RD
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION A

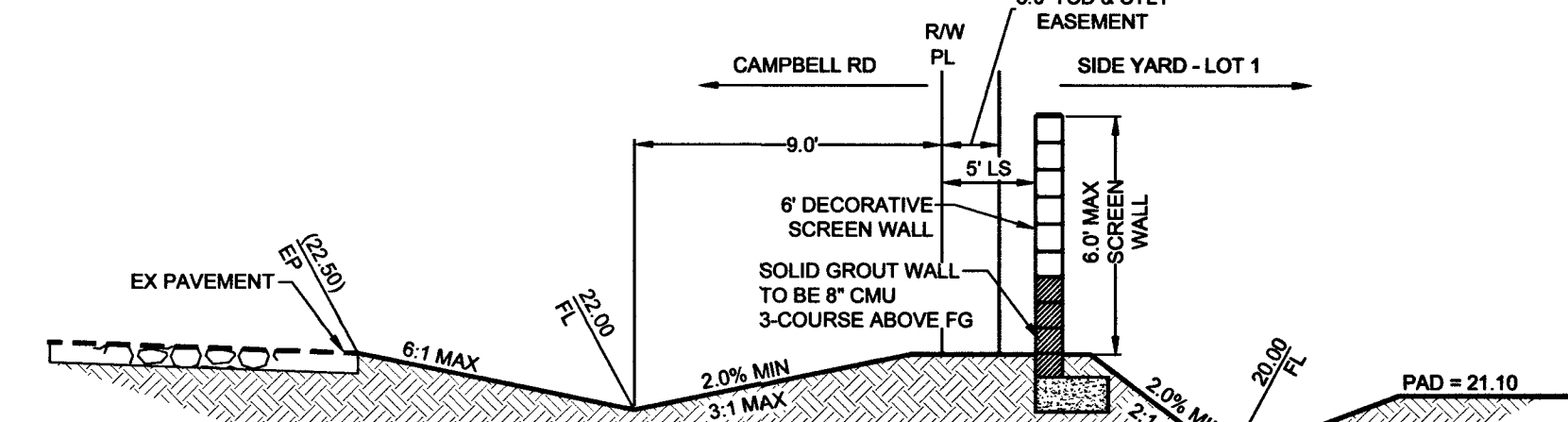


HAMMER LN
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION B

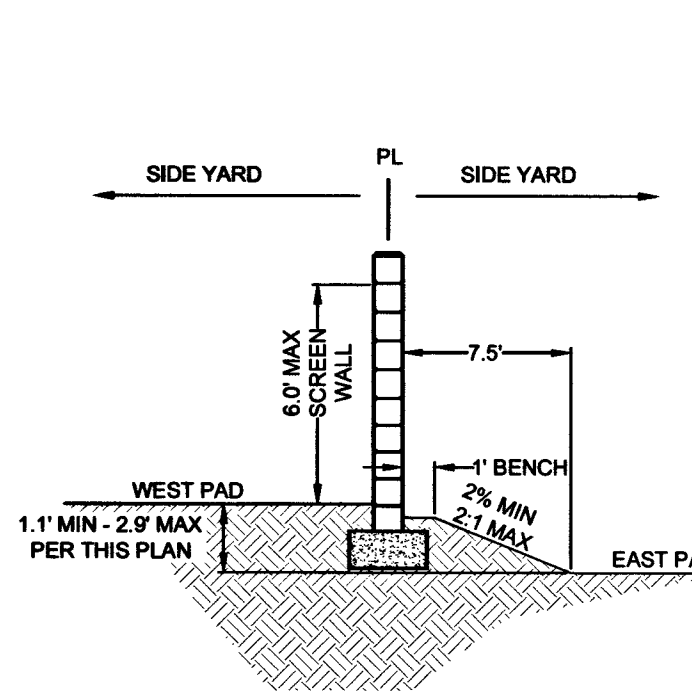
NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT HTE# 17-42287. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



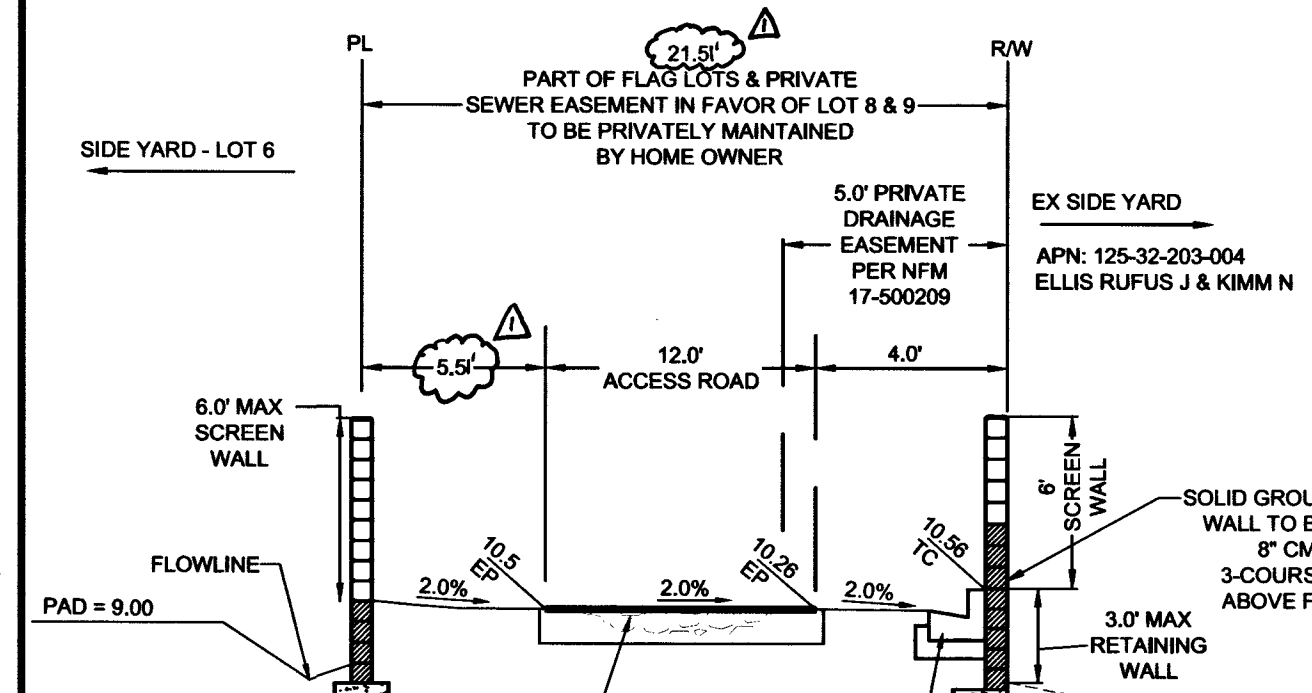
KEVIN WAY
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION C



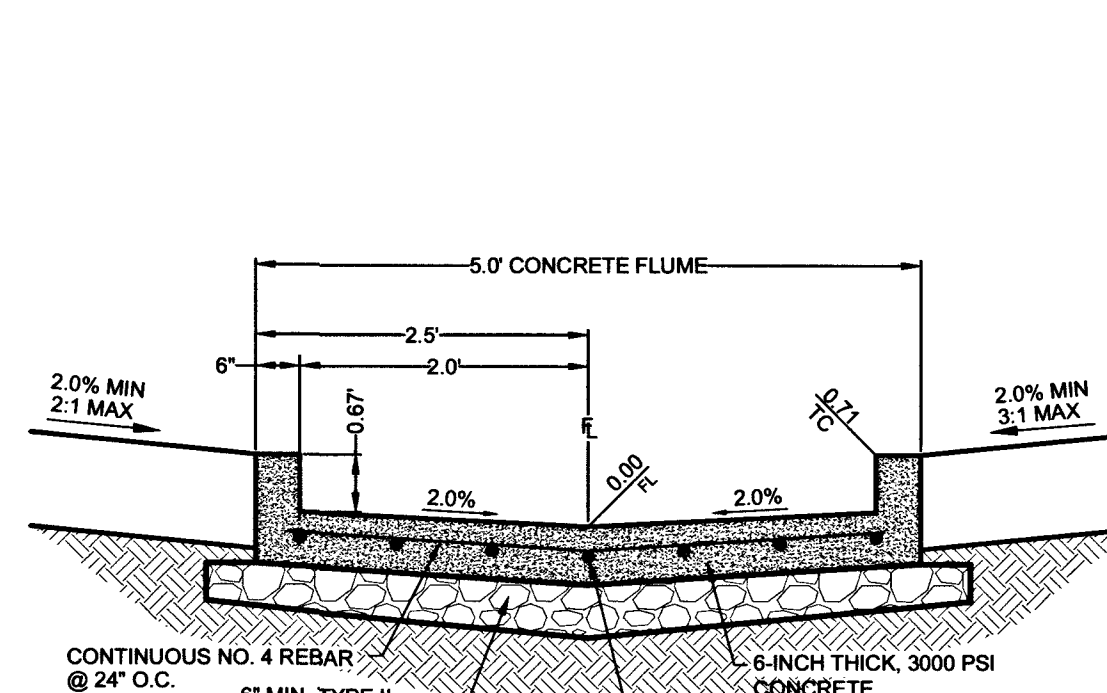
NTS
SECTION D
WESTERN BOUNDARY



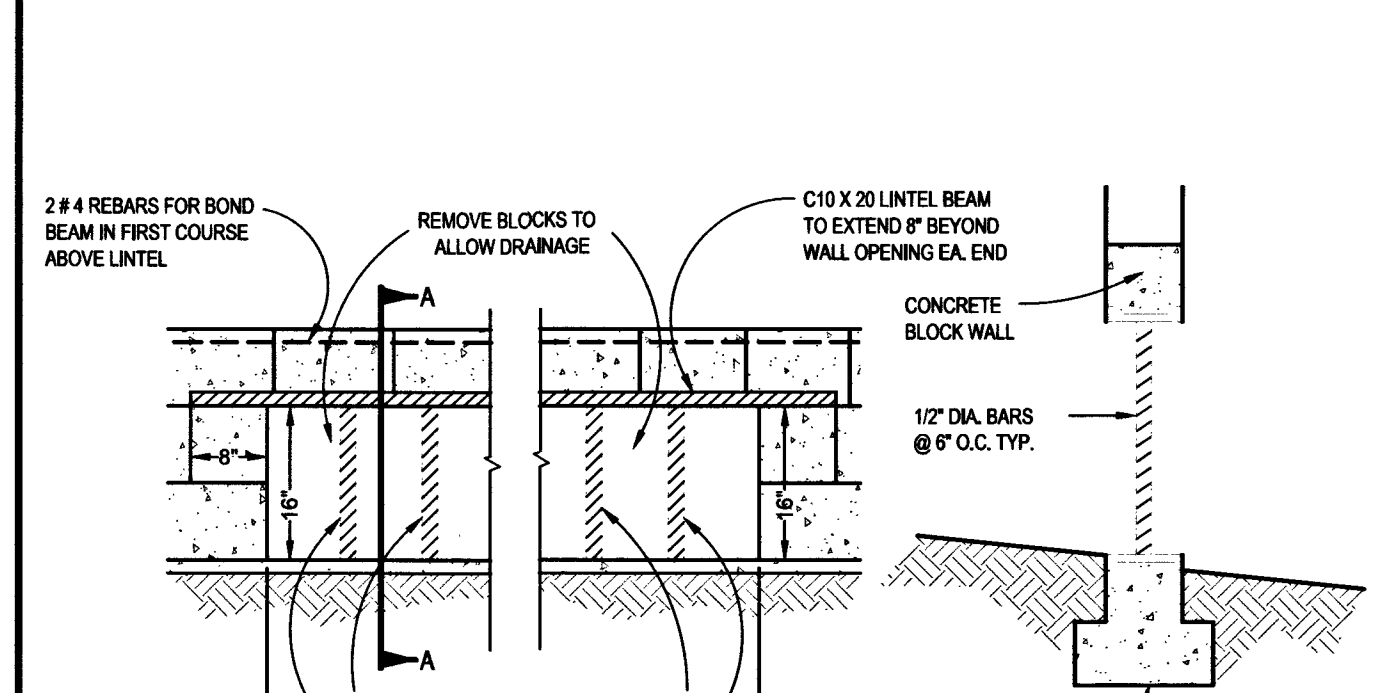
NTS
SECTION E
SIDE/SIDE YARD



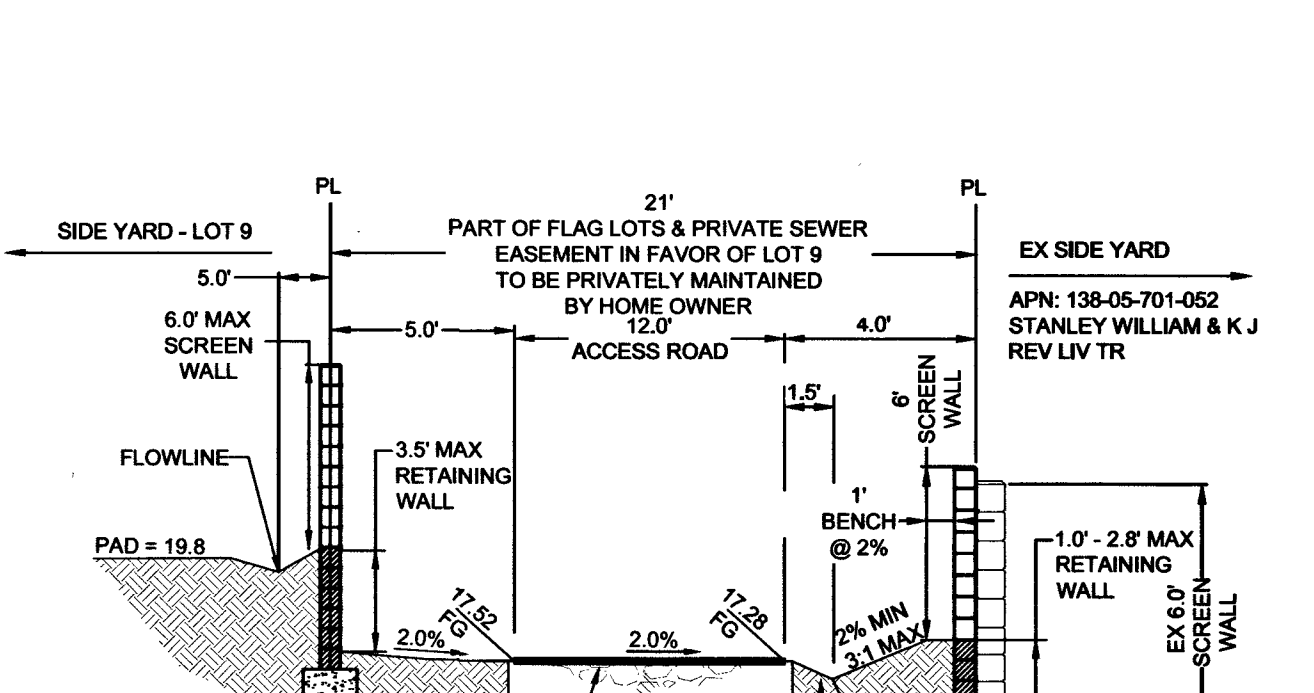
SECTION F
LOT 7 DRIVE



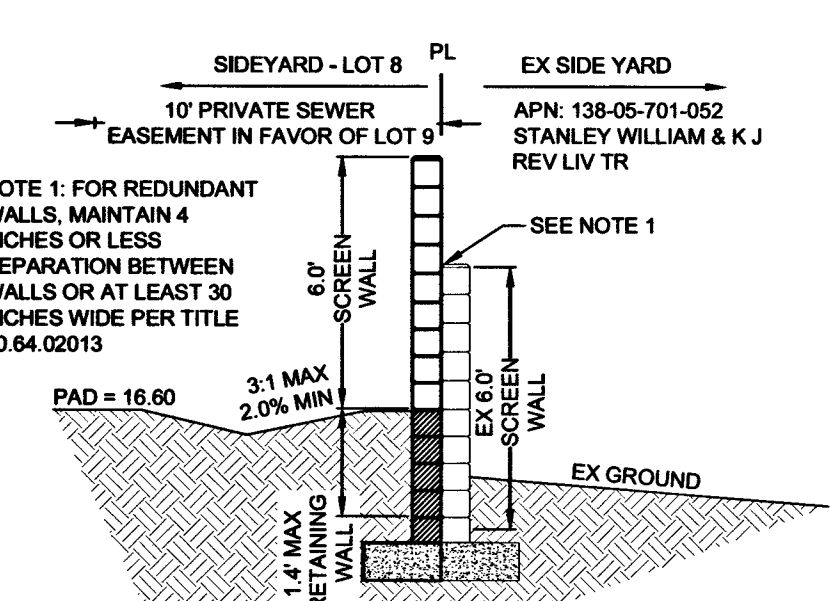
DETAIL G
5.0' CONCRETE FLUME



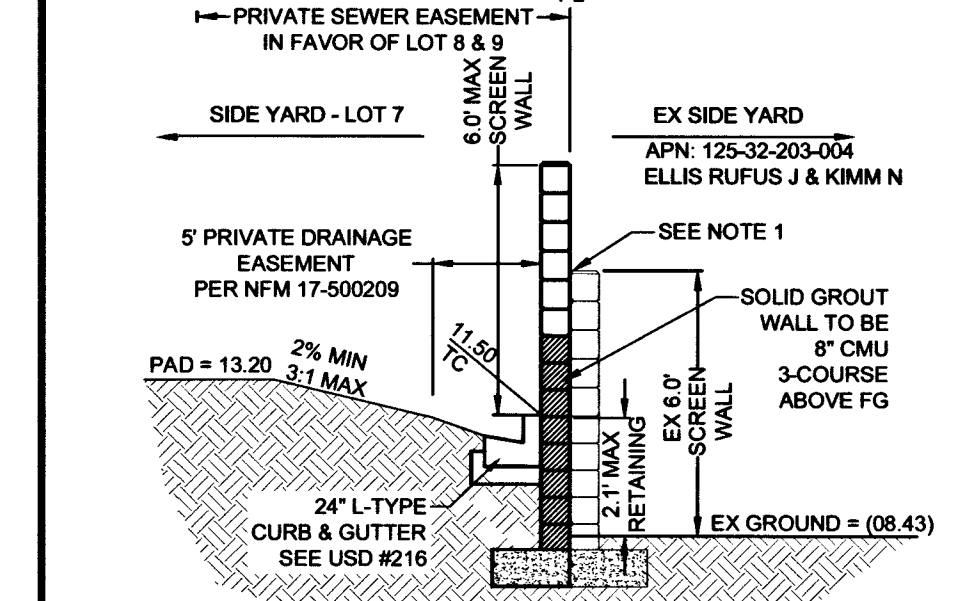
SECTION H
48" X 16" BLOCK WALL OPENING



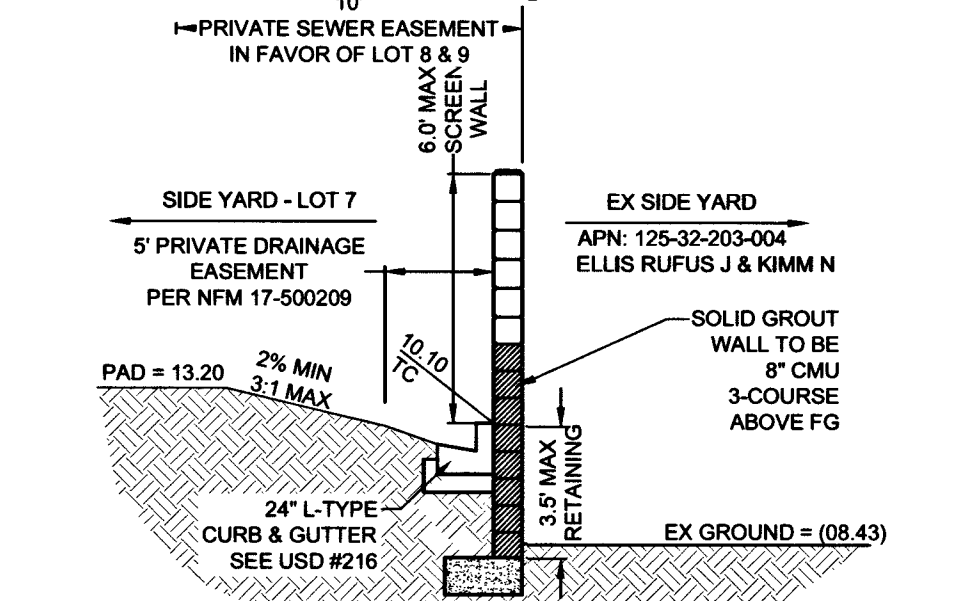
SECTION I
LOT 8 DRIVE



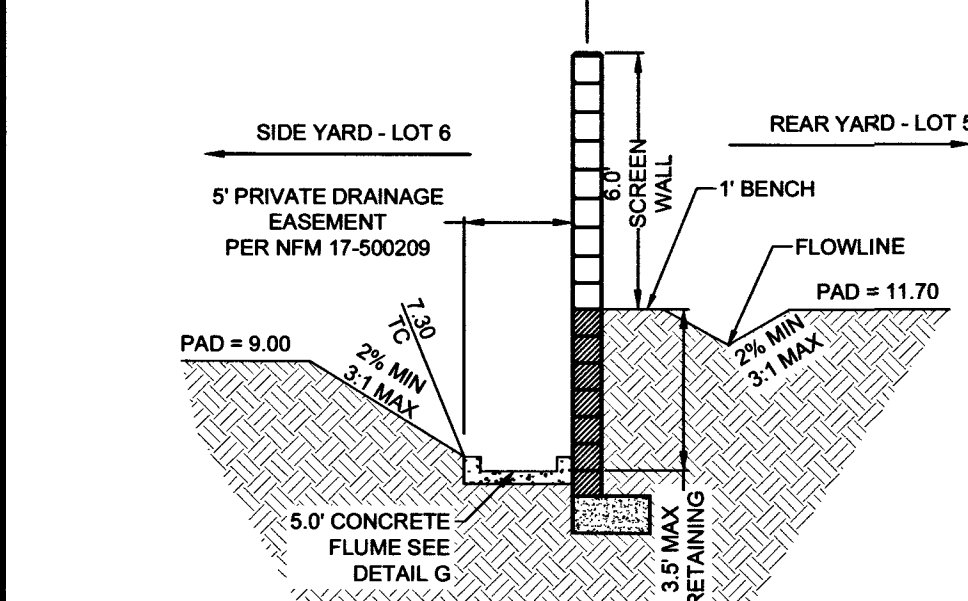
SECTION J
SOUTHERN BOUNDARY



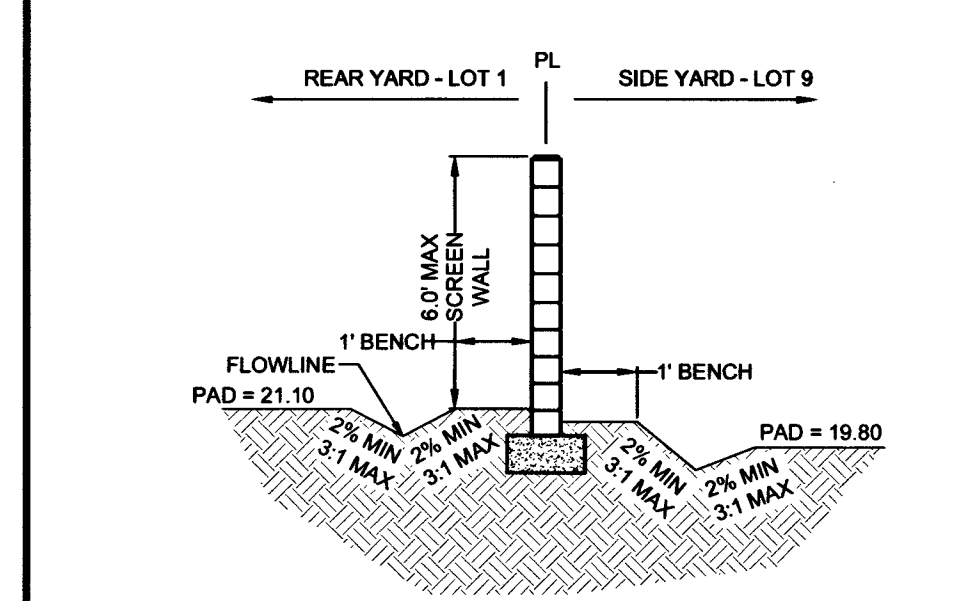
SECTION K
SOUTHERN BOUNDARY



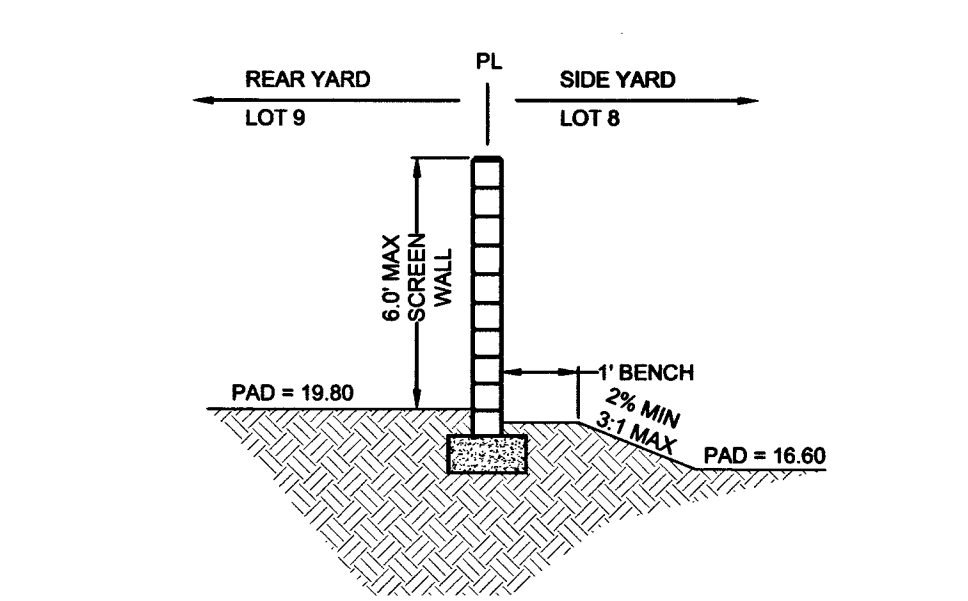
SECTION L
SOUTHERN BOUNDARY



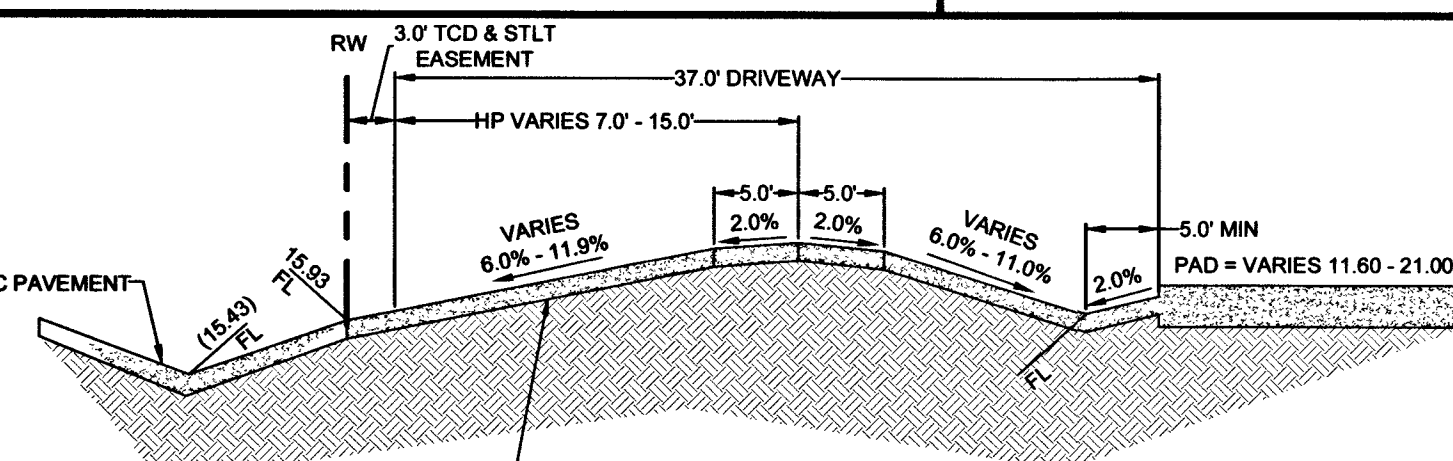
SECTION M
REAR TO SIDE YARD



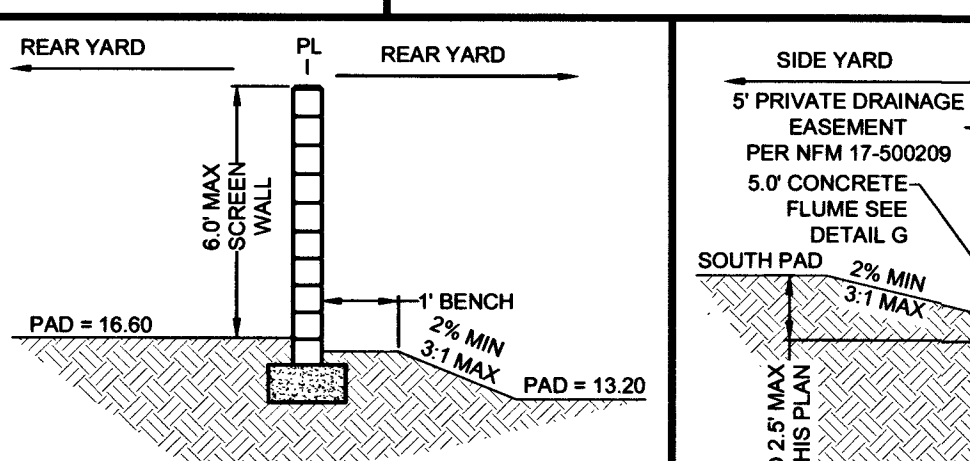
SECTION N
REAR/SIDE YARD



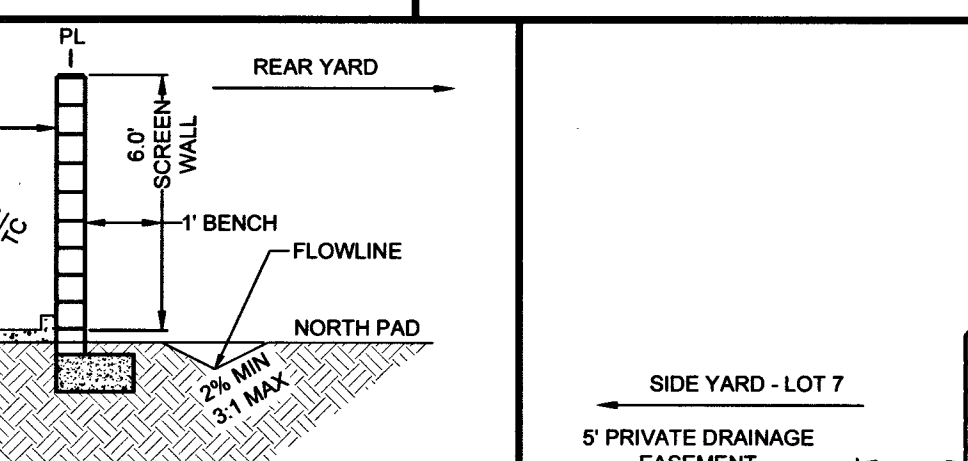
SECTION O
REAR/FRONT YARD



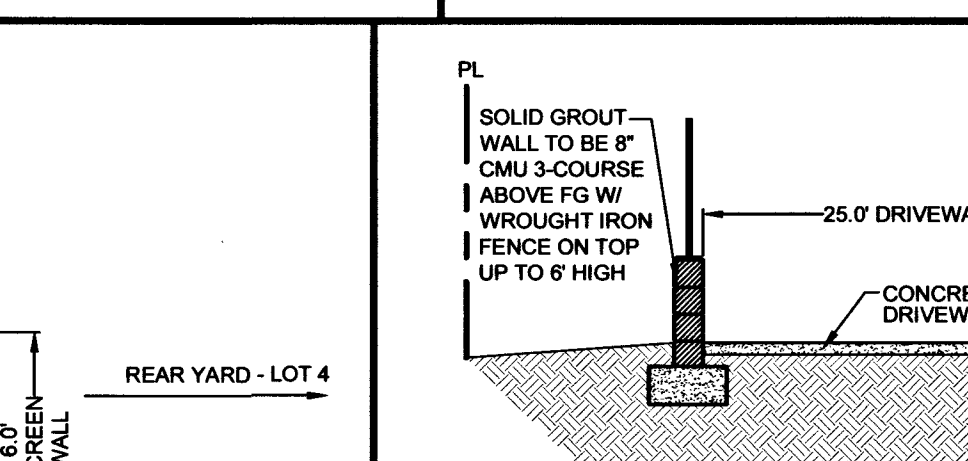
SECTION P
NORTHERN BOUNDARY



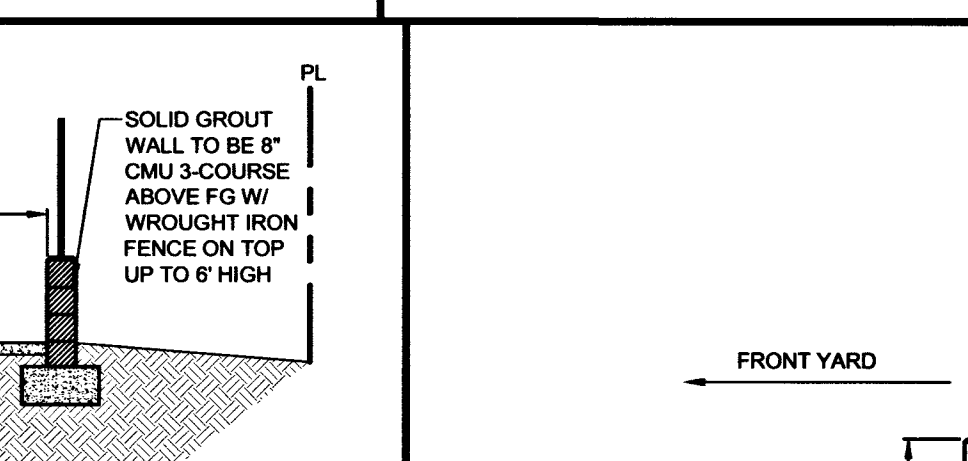
SECTION Q
REAR/REAR YARD



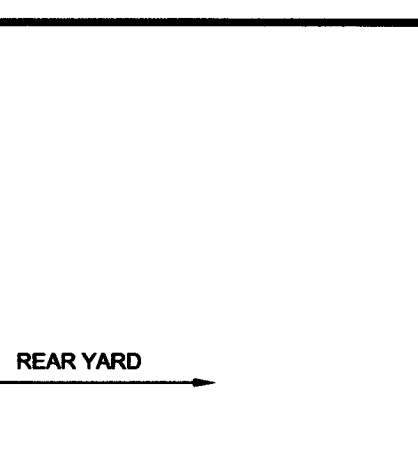
SECTION R
SIDE/REAR YARD



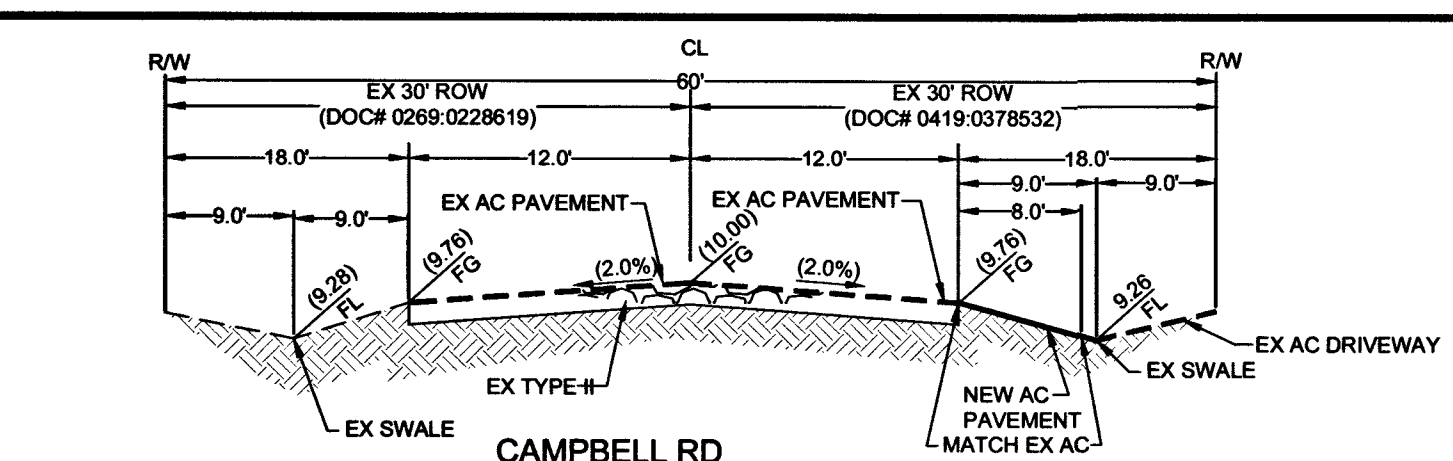
SECTION S
REAR TO SIDE YARD



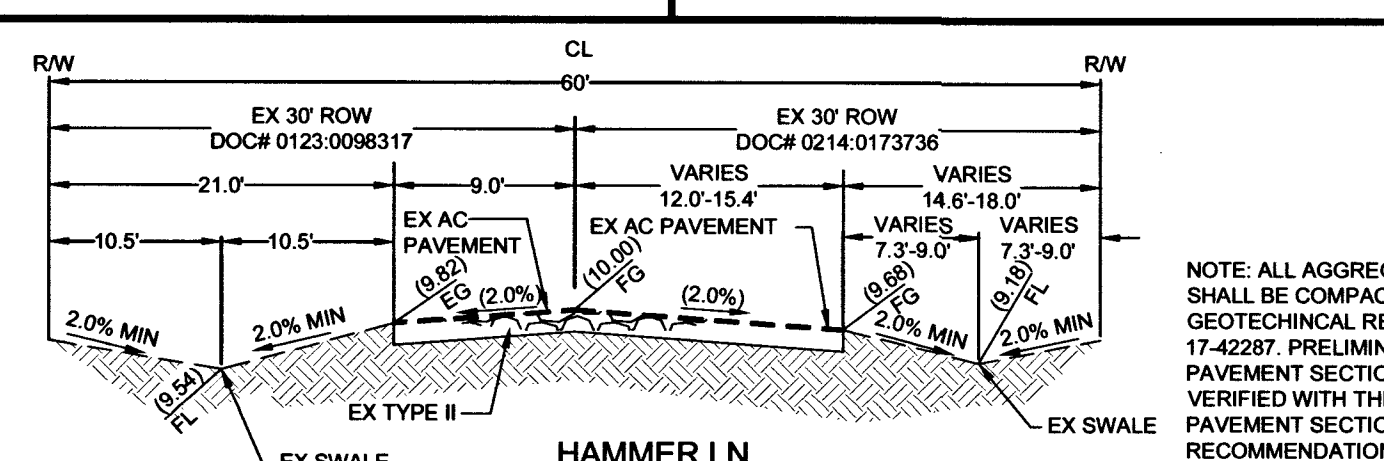
SECTION T
DRIVEWAYS



SECTION V
REAR/FRONT YARD

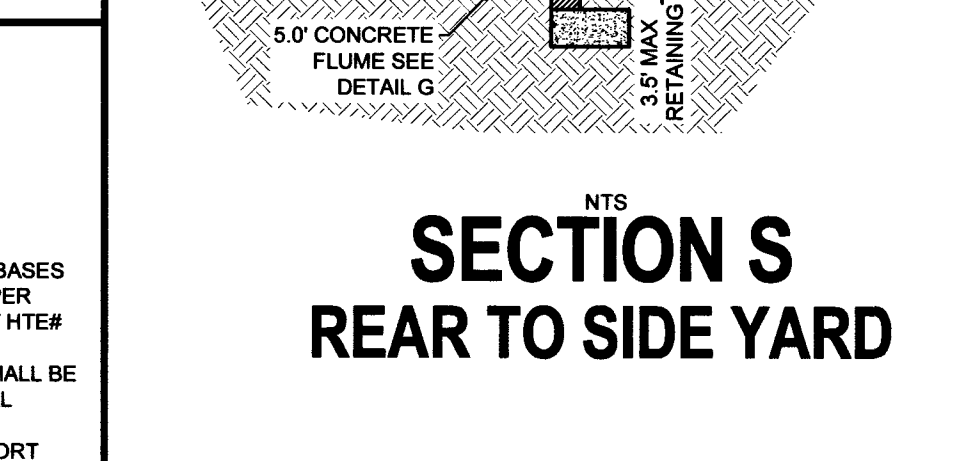


CAMPBELL RD
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION W



HAMMER LN
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION X

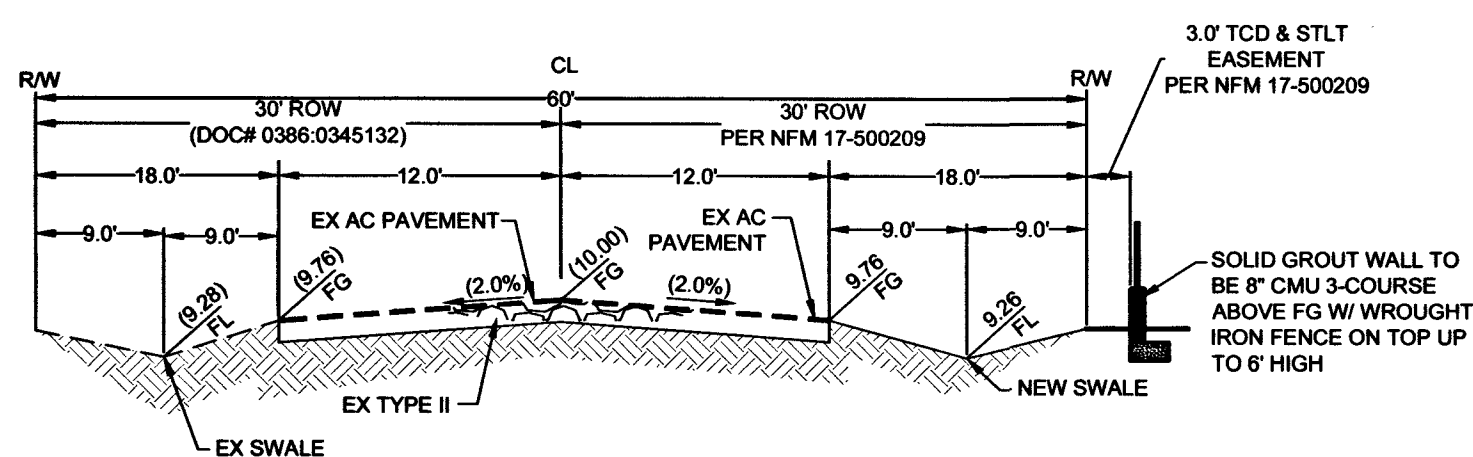
NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT HTE# 17-42287. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



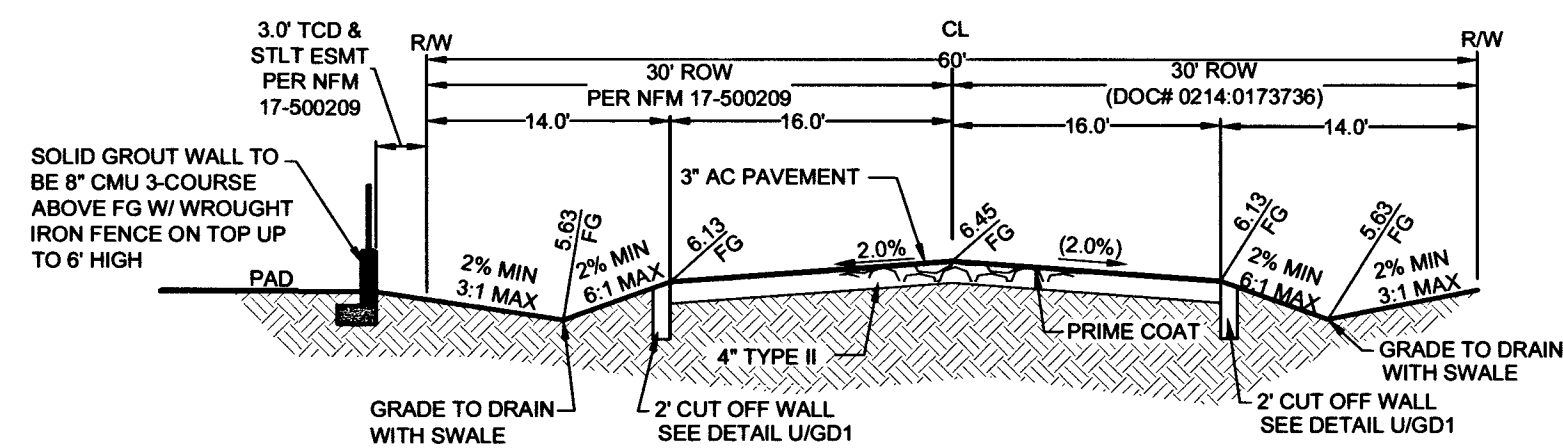
DETAIL U
2' CUT OFF WALL

APPROVED FOR CONSTRUCTION
STANLEY FONG
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE 9.21.18
LIVWV APPROVED FIRE FLOW 2,000 GPM AT 20 PSI RESIDUAL

THM ENTERPRISES LLC		JANEY & ENGINEERING	
928 W. RUSSELL ROAD STE. 235 LAS VEGAS, NV 89116 (702) 825-3111 FAX: (702) 825-3889		900 S. JONES BOULEVARD LAS VEGAS, NV 89116 (702) 362-4444 FAX: (702) 362-2233	
HAMMER & KEVIN A RESIDENTIAL SUBDIVISION			
GRADING SECTION AND DETAILS 1			
STANLEY FONG Exp. 8-30-19 CIVIL No. 22816			
DATE:	5/10/2018	SCALE:	1"=30'
JOB NO.:	THM-17-013	DESIGNED BY:	SB
CHECKED BY:	SF	SHEET NAME:	GD1
SHEET NUMBER:	05 OF 15	CLV:	307V11/41
CC:	HTE# PW17-39999-SDF	PROJ#:	125535

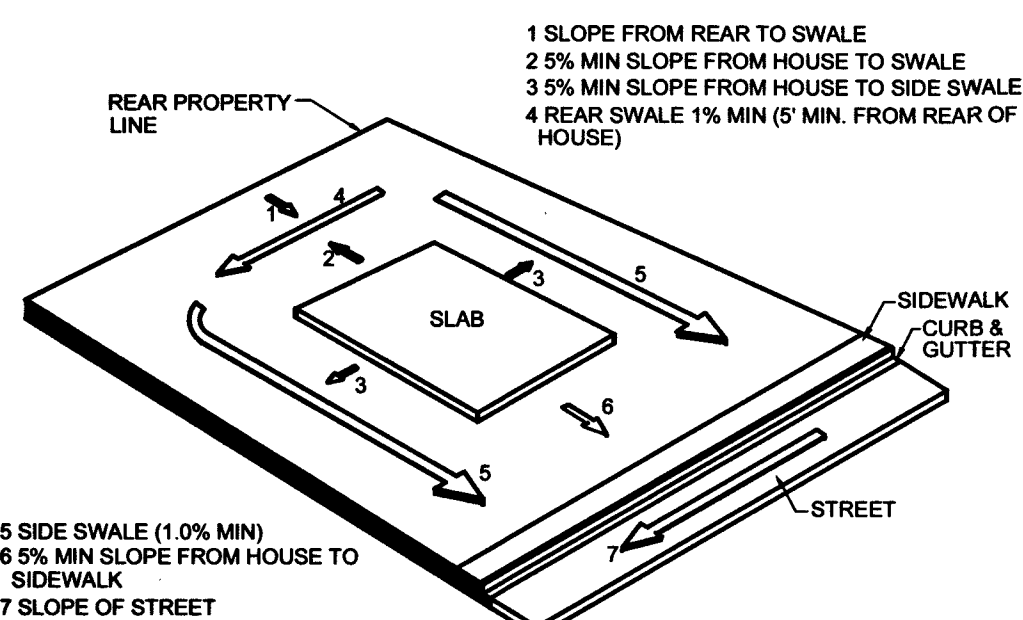


CAMPBELL ROAD
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION Y
LOT 9 WESTERN BOUNDARY

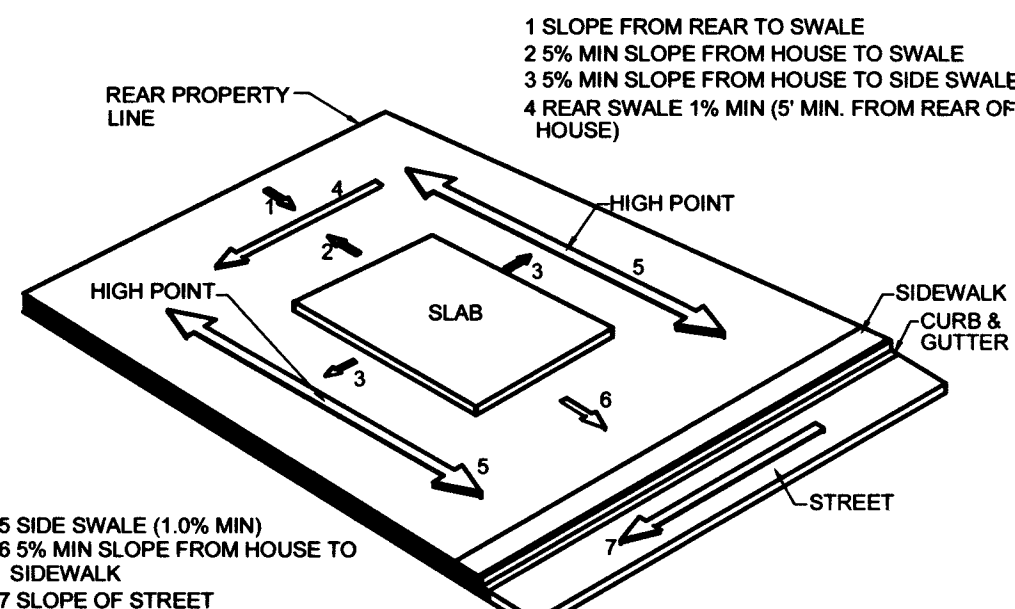


KEVIN ROAD
60-FT WIDE RIGHT-OF-WAY
NTS
SECTION Z
LOT 6 EASTERN BOUNDARY

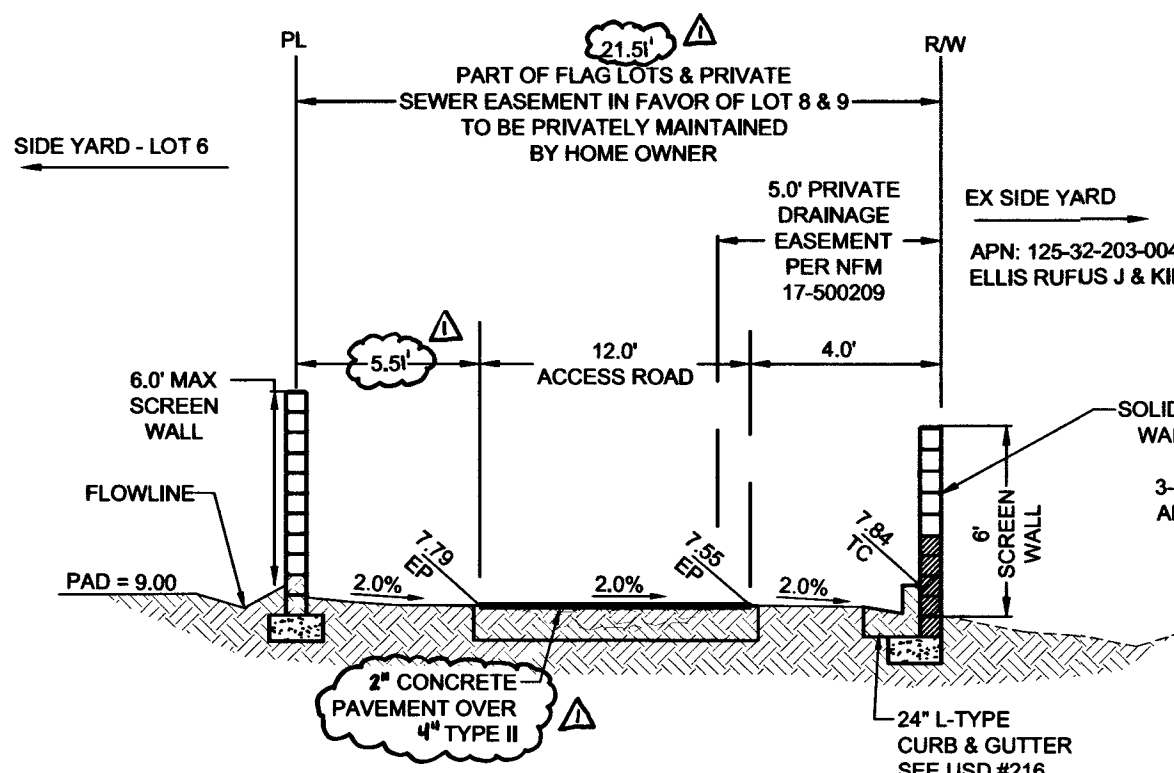
NOTE: ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT HTE# 17-42287. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.



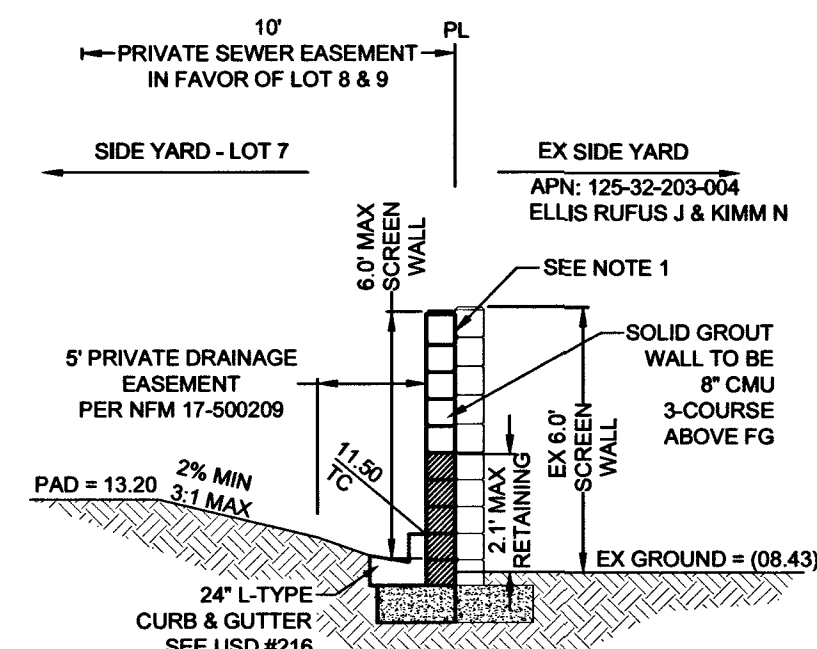
SECTION AA
TYP. LOT DRAINAGE



SECTION BB
TYP. LOT DRAINAGE



SECTION CC
LOT 7 DRIVE



NOTE 1: FOR REDUNDANT WALLS, MAINTAIN 4 INCHES OR LESS SEPARATION BETWEEN WALLS OR AT LEAST 30 INCHES WIDE PER TITLE 30.64.02013

SECTION DD
SOUTHERN BOUNDARY

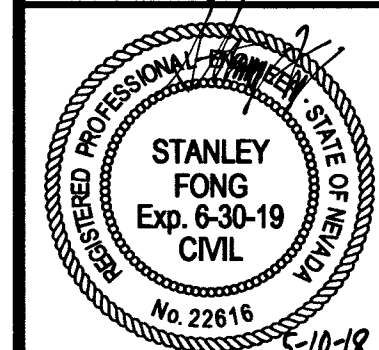
THM ENTERPRISES LLC
9205 W. RUSSELL ROAD STE 235
LAS VEGAS, NV 89118
(702) 925-3131 FAX: (702) 925-3899

ANNEY & JONES ENGINEERING
880 S. JONES BLVD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-3233



HAMMER & KEVIN
A RESIDENTIAL SUBDIVISION

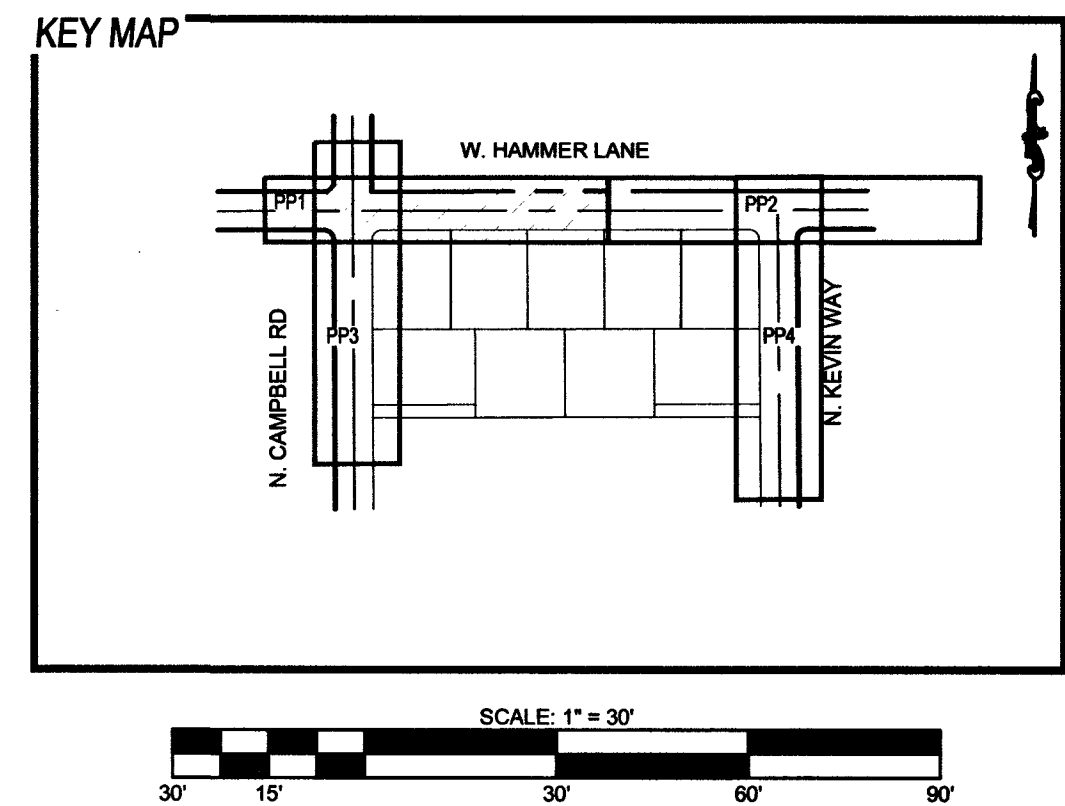
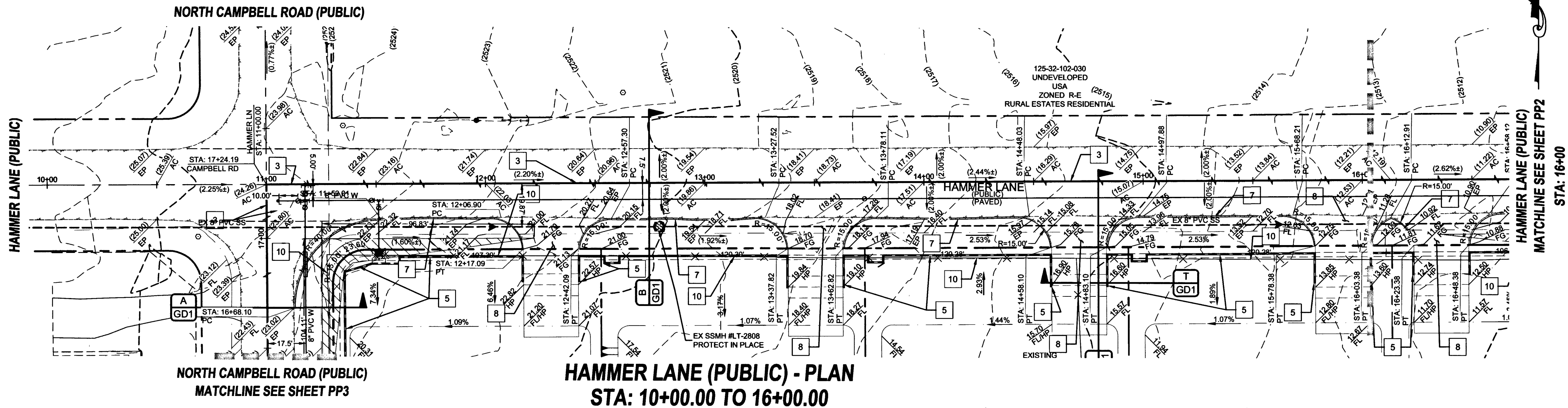
GRADING SECTION AND DETAILS 2



DATE: 5/10/2018
SCALE: 1"=30'
JOB NO: THM-17-013
DESIGNED BY: SB CHECKED BY: SF
SHEET NAME: GD2

SHEET NUMBER:
06 OF **15**
307V1141
CLV L17-01036
CC HTE# PW17-39999-SDF

APPROVED FOR CONSTRUCTION
Stanley Fong
LAS VEGAS VALLEY WATER DISTRICT, ENGINEERING SERVICES
FIRST APPROVED DATE: 5-21-18 PROJECT# 125555
LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL



- ### GRADING CONSTRUCTION NOTES
- 5.0' CONCRETE CHANNEL (SEE DETAIL 'G' ON GD1)
 - INSTALL 48"x18" BLOCK WALL OPENING (SEE DETAIL 'H' ON GD1)
 - SAWCUT & REMOVE EX AC PAVEMENT (PER CCAUSD 503, 500.3 & 500.4)
 - 3" AC PAVEMENT OVER 4" TYPE II (PER GEOTECHNICAL REPORT # DW17-42287)
 - SOLID GROUT 3 COURSES ABOVE FG MIN.
 - DECORATIVE 6" BLOCK WALL
 - 2' CUT-OFF WALL (DETAIL UGD1)
 - DRIVEWAY: 2" AC OVER 4" TYPE II (DETAIL PGD1) (SEE DRIVEWAY NOTE ON THIS SHEET)
 - INSTALL 24" L-TYPE CURB & GUTTER (USD #216)
- 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
 - 4" SEWER LATERAL PER DCSWCS SD-22
 - SAWCUT REMOVE AND REPLACE EXISTING AC PAVEMENT PER CCAUSD # 503, 500.4 & 500.5
 - FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
 - 8" WATERLINE TEE (UDACS PLT. 31)
 - INSTALL END CAP & 2" BLOW-OFF ASSEMBLY (UDACS PLT. 36)
 - 8"x8" TEE (UDACS PLT. 31)
 - 8" GATE VALVE (UDACS PLT. 30 & 39)
 - PROTECT EX. SEWER LINE (PER SD-21)
 - 8" 45° HORIZONTAL WATERLINE BEND (UDACS PLT. 31)
 - 6" SEWER LATERAL PER DCSWCS SD-22
 - 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
 - JENSEN HT1224 TRAFFIC RATED BOX OR EQUIVALENT IMPROVED CONDITION METER BOX COLLAR
 - REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY
 - 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & LID PER DCSWCS STANDARDS
 - REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY & CONNECT TO EX MAIN WITH 10" X 8" REDUCER & 1" MAX HORIZONTAL DEFLECTION (UDACS PLT. 30)
 - 1" MAX HORIZONTAL DEFLECTION

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACHES IN RIGHT-OF-WAY ARE NON-STANDARD IMPROVEMENTS AND ARE NOT MAINTAINED BY CLARK COUNTY PUBLIC WORKS.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
6835 S. ESCONCADO ST. STE. B
LAS VEGAS, NV 89119
(702) 897-1424
REPORT NO.: 11240-LVR6
DATE: 06/18/13
REVISED: 01/20/15 UPDATE: 06/02/17

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

PROFILE NOTES

ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BASIS OF BEARING

BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 80 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BM NO. 819032W6 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, ~ 142' SOUTH OF WASHBURN ROAD
NAVD88 ELEV: 2507.62 (FEET)
764.322 (METERS)

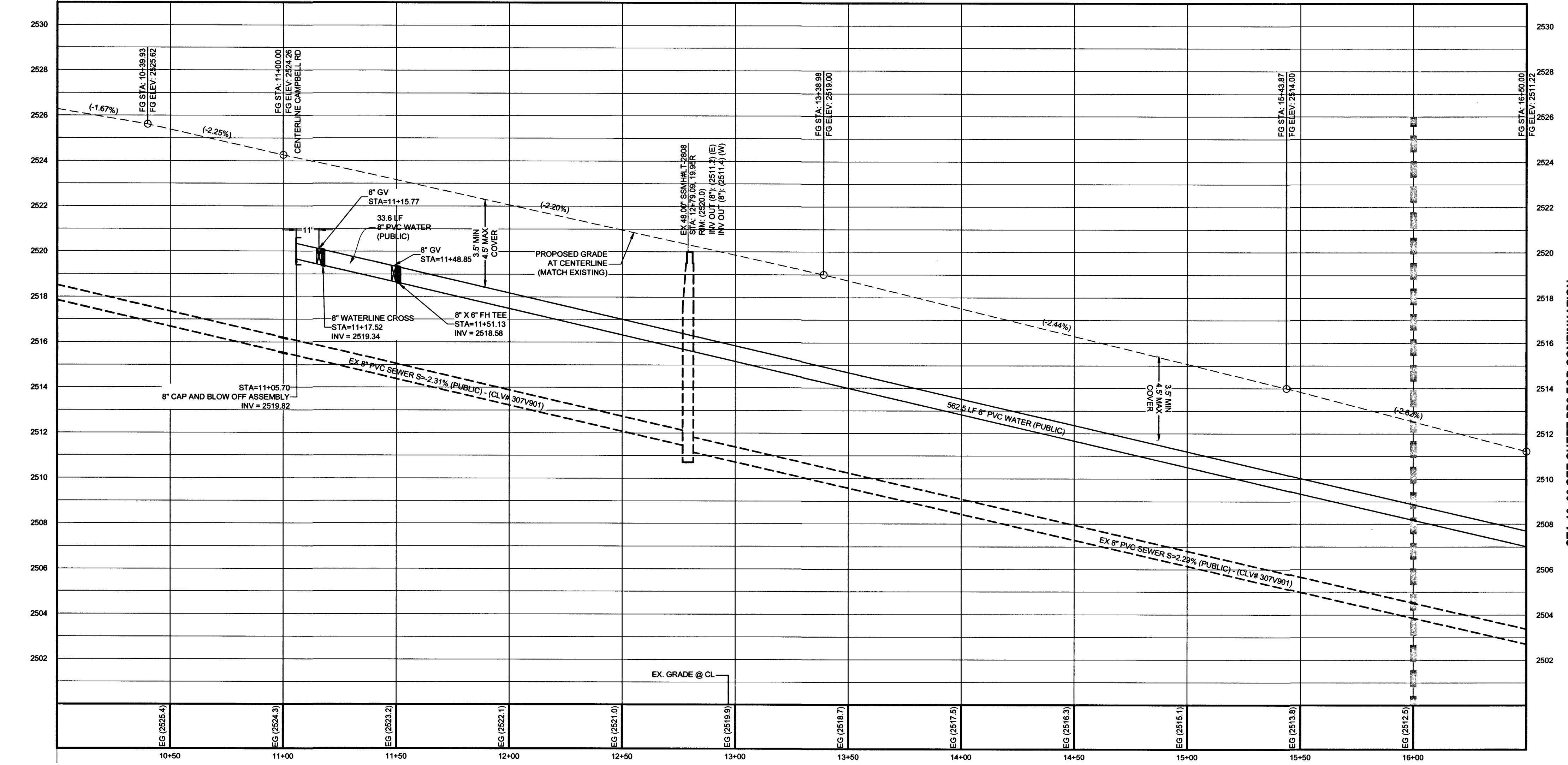
APPROVED FOR CONSTRUCTION

Stanley Fong
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 02-21-14 PROJECT# 125555
LVMWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

DATE: 5/10/2018
SCALE: 1"=30'
JOB NO: THM-17-013
DESIGNED BY: SB CHECKED BY: SF
SHEET NAME: PP1
SHEET NUMBER: 07 OF 15
307 V11/4/17-01036
CLV
CC HTE# PW17-39999-SDF



HAMMER LANE (PUBLIC) - PROFILE
STA: 10+00.00 TO 16+00.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO.15

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

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

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

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

Avoid overhead power line contact. It's costly.
Call before you Overhead
1-702-227-2929

THM ENTERPRISES, LLC

8200 W. RUSSELL ROAD STE. 235

LAS VEGAS, NV 89115

(702) 628-3131 FAX: (702) 628-3889

STANLEY FONG

Exp. 6-30-19

CIVIL

No. 22816

5-10-18

DATE: 5/10/2018

SCALE: 1"=30'

JOB NO: THM-17-013

DESIGNED BY: SB CHECKED BY: SF

SHEET NAME: PP1

SHEET NUMBER: 07 OF 15

307 V11/4/17-01036

CLV

CC HTE# PW17-39999-SDF

THM ENTERPRISES, LLC

8200 W. RUSSELL ROAD STE. 235

LAS VEGAS, NV 89115

(702) 628-3131 FAX: (702) 628-3889

STANLEY FONG

Exp. 6-30-19

CIVIL

No. 22816

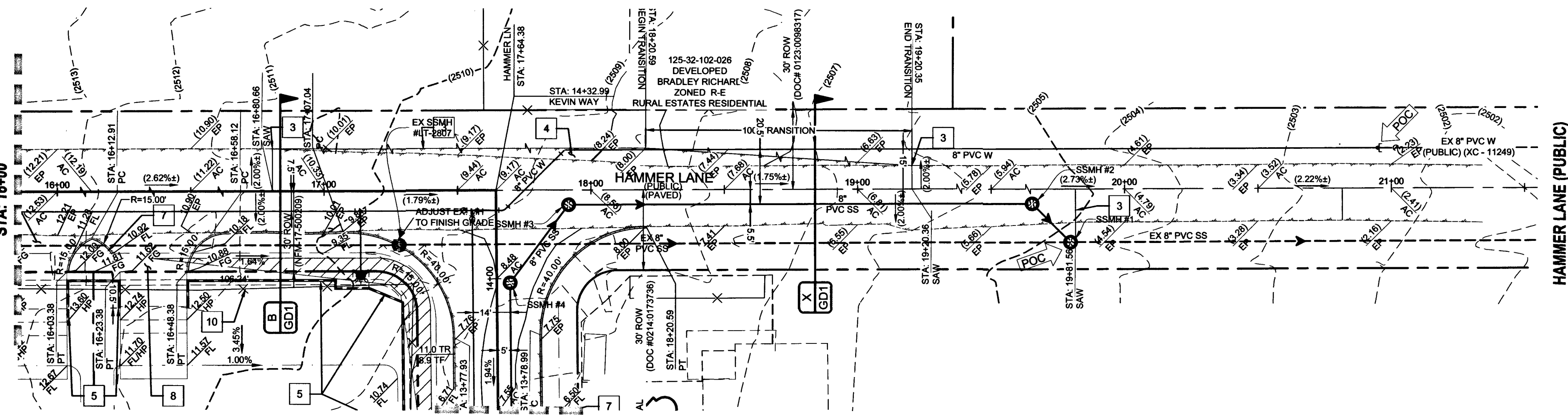
5-10-18

FILE NAME:

PROJ#125555 AGR:116561 QS:25-32-AW

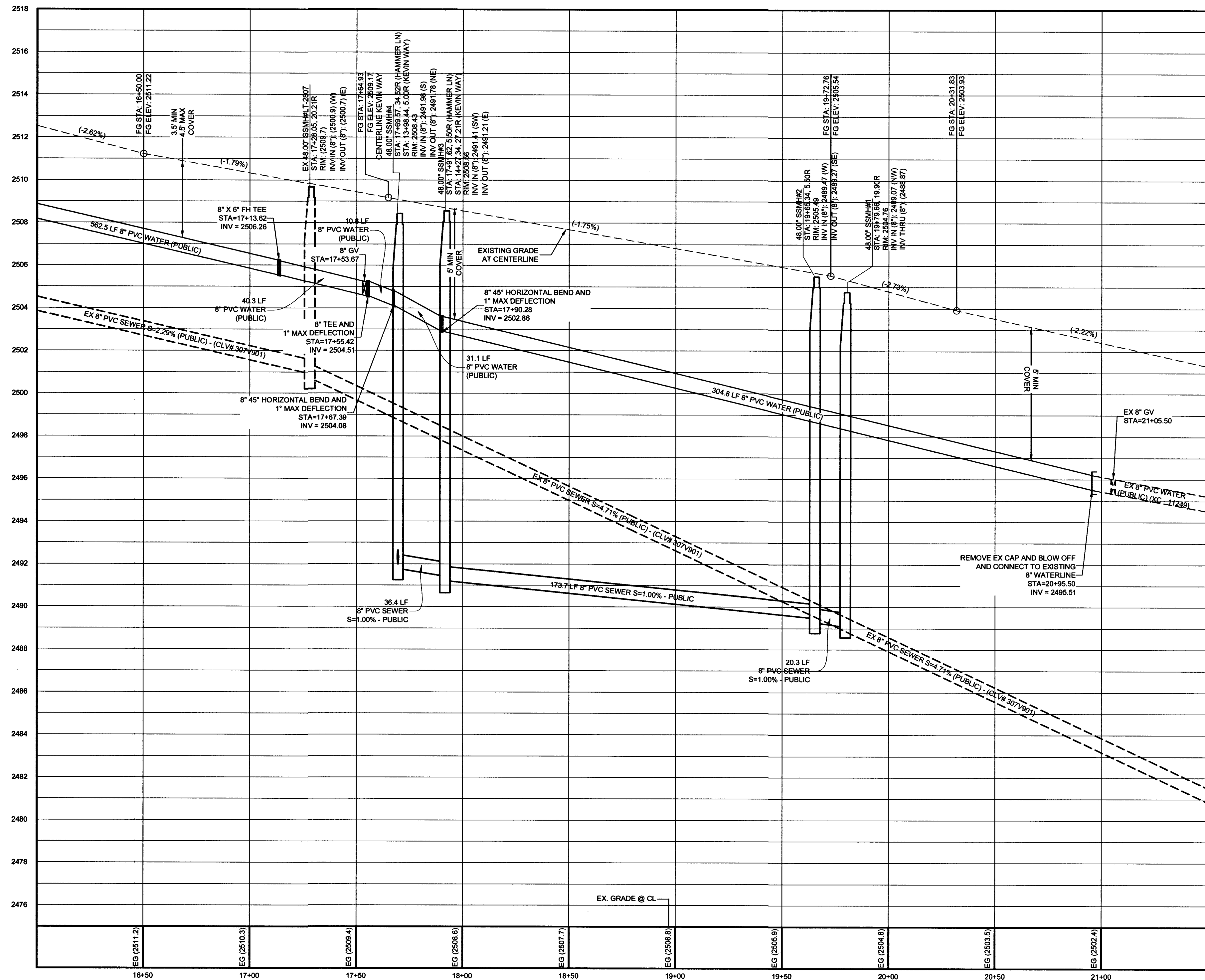
HAMMER LANE (PUBLIC)
MATCHLINE SEE SHEET PP1
STA: 16+00

STA 16+00 SEE SHEET PP2 FOR CONTINUATION



NORTH KEVIN WAY (PUBLIC)
MATCHLINE SEE SHEET PP4

HAMMER LANE (PUBLIC) - PLAN
STA: 16+00.00 TO 22+00.00

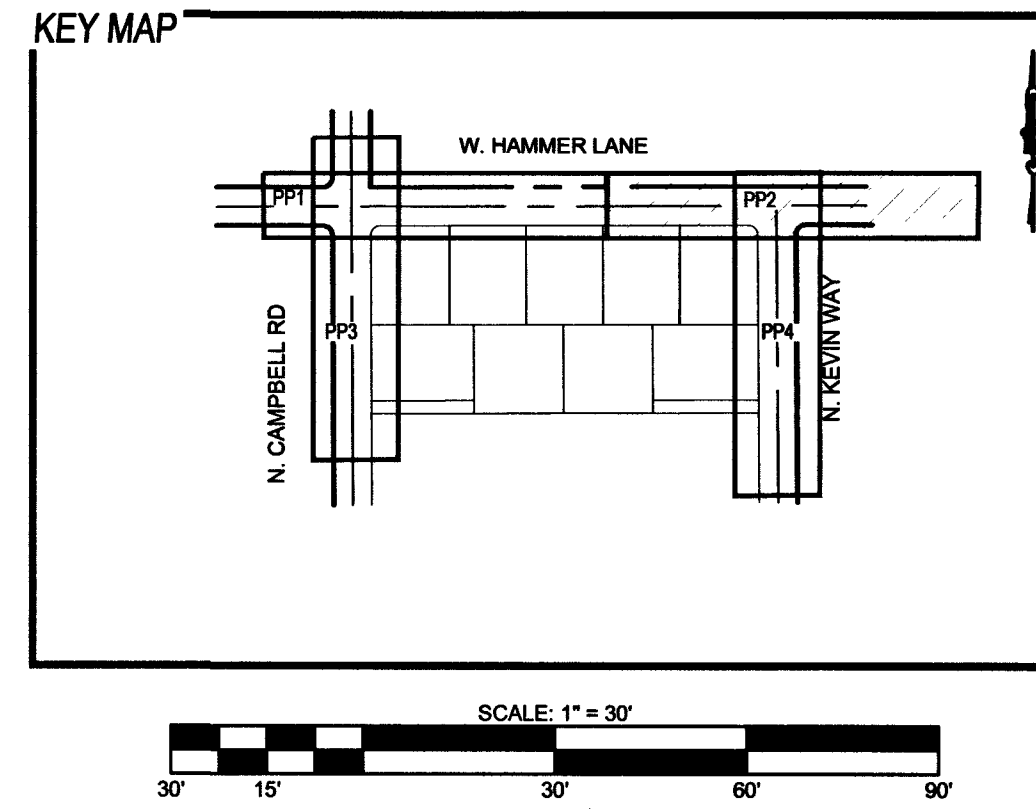


HAMMER LANE (PUBLIC) - PROFILE
STA: 16+00.00 TO 22+00.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO.15

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.38.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.



- GRADING CONSTRUCTION NOTES**
- 5' CONCRETE CHANNEL (SEE DETAIL 'G' ON GD1)
 - INSTALL 48"x16" BLOCK WALL OPENING (SEE DETAIL 'H' ON GD1)
 - SAWCUT & REMOVE EX AC PAVEMENT (PER CCAUSD 503, 500.3 & 500.4)
 - 3" AC PAVEMENT OVER 4" TYPE II (PER GEOTECHNICAL REPORT # DW17-42287)
 - SOLID GROUT 3 COURSES ABOVE FG MIN.
 - DECONSTRUCTIVE 8" BLOCK WALL
 - 2' CUT-OFF WALL (DETAIL UGD1)
 - DRIVEWAY: 2" AC OVER 4" TYPE II (DETAIL PGD1) (SEE DRIVEWAY NOTE ON THIS SHEET)
 - INSTALL 24" L-TYPE CURB & GUTTER (USD #216)
- 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
 - 4" SEWER LATERAL PER DCSWCS SD-22
 - SAWCUT REMOVE AND REPLACE EXISTING AC PAVEMENT PER CCAUSD # 503, 500.4 & 500.5
 - FIRE HYDRANT ASSEMBLY W/ 8" GATE VALVE (UDACS PLT. 40)
 - 8" WATERLINE TEE (UDACS PLT. 31)
 - INSTALL END CAP & 2" BLOW-OFF ASSEMBLY (UDACS PLT. 36)
 - 8"x6" TEE (UDACS PLT. 31)
 - 8" GATE VALVE (UDACS PLT. 30 & 39)
 - PROTECT EX. SEWER LINE (PER SD-21)
 - 8" 45° HORIZONTAL WATERLINE BEND (UDACS PLT. 31)
 - 8" SEWER LATERAL PER DCSWCS SD-22
 - 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
 - JENSEN HT1234 TRAFFIC RATED BOX OR EQUIVALENT
 - IMPROVED CONDITION METER BOX COLLAR
 - REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY
 - 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & LID PER DCSWCS STANDARDS
 - REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY & CONNECT TO EX MAIN WITH 10" X 8" REDUCER & 1" MAX HORIZONTAL DEFLECTION (UDACS PLT. 30)
 - 1" MAX HORIZONTAL DEFLECTION

DRIVEWAY NOTE
PROPOSED DRIVEWAY APPROACHES IN RIGHT-OF-WAY ARE NON-STANDARD IMPROVEMENTS AND ARE NOT MAINTAINED BY CLARK COUNTY PUBLIC WORKS.

GEOTECHNICAL
GEOTEK RESIDENTIAL, LLC
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NV 89119
(702) 897-1424
REPORT NO.: 11240-LVR6
DATE: 06/18/13
REVISED: 01/20/15
UPDATE: 06/02/17

UTILITY DISCLAIMER
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

PROFILE NOTES
ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BASIS OF BEARING
NORTH 89°40'09" EAST
BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK
PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BM NO. 81360226 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD
NAVD88 ELEV: 2507.62 (FEET)
784.329 (METERS)

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 2-21-17
PROJECT: 125555
LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY: _____ DATE: _____

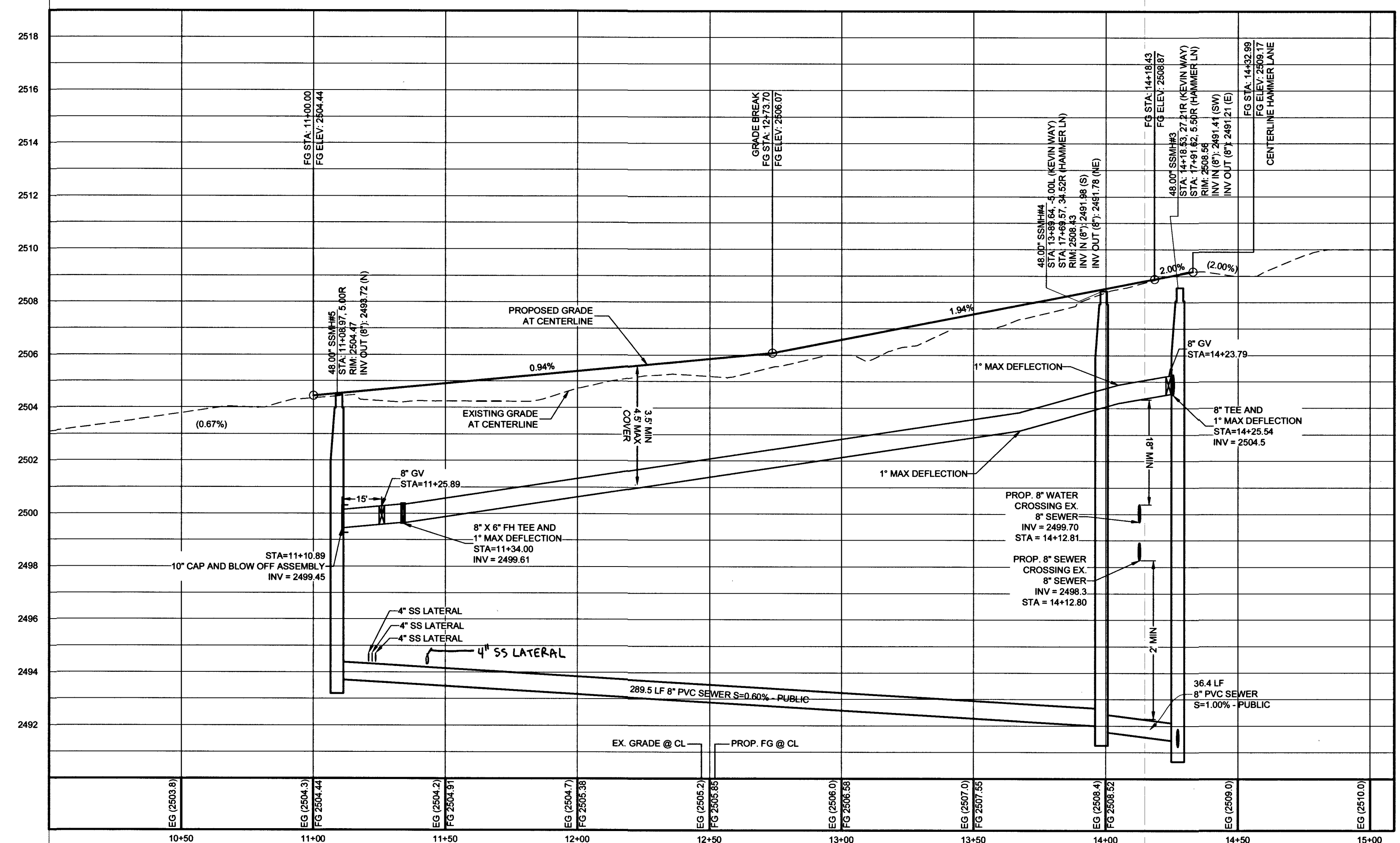
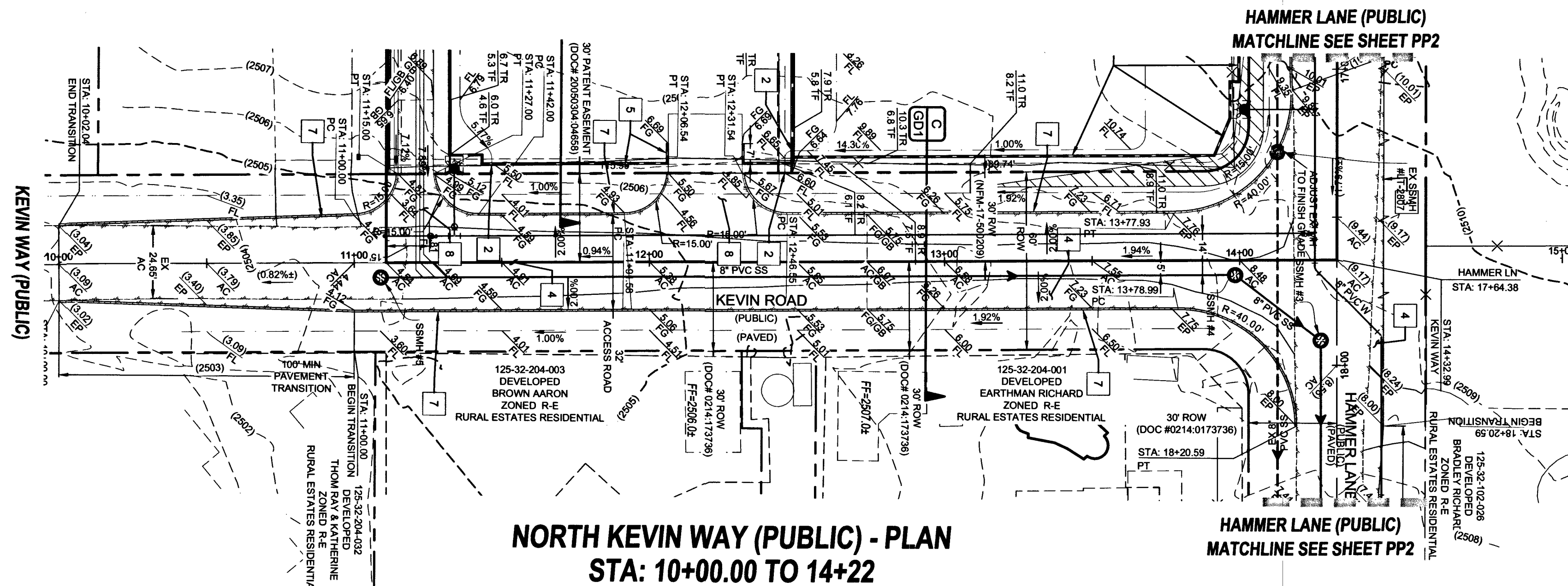
ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING 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.

FAST
Call before you Dig
Underground
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION

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

Call before you Overhead
1-702-227-2929
Avoid overhead power line contact. It's costly.

THM ENTERPRISES, LLC		STANLEY FONG	
808 W. RUSSELL ROAD STE. 235 LAS VEGAS, NV 89119 (702) 626-3131 FAX: (702) 626-3889		Exp. 6-30-19 CIVIL No. 22816 5-10-18	
HAMMER & KEVIN A RESIDENTIAL SUBDIVISION HAMMER LANE STA: 16+00 TO 22+00 PLAN AND PROFILE 2		DATE: 5/10/2018 SCALE: 1"=30' JOB NO: THM-17-013 DESIGNED BY: SB CHECKED BY: SF SHEET NAME: PP2 SHEET NUMBER: 08 OF 15 307V11/17-01036 CLV CC HTE# PW17-39999-SDF	
THM ENTERPRISES, LLC 808 W. RUSSELL ROAD STE. 235 LAS VEGAS, NV 89119 (702) 626-3131 FAX: (702) 626-3889		STANLEY FONG Exp. 6-30-19 CIVIL No. 22816 5-10-18	

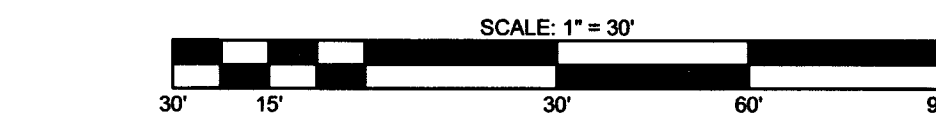
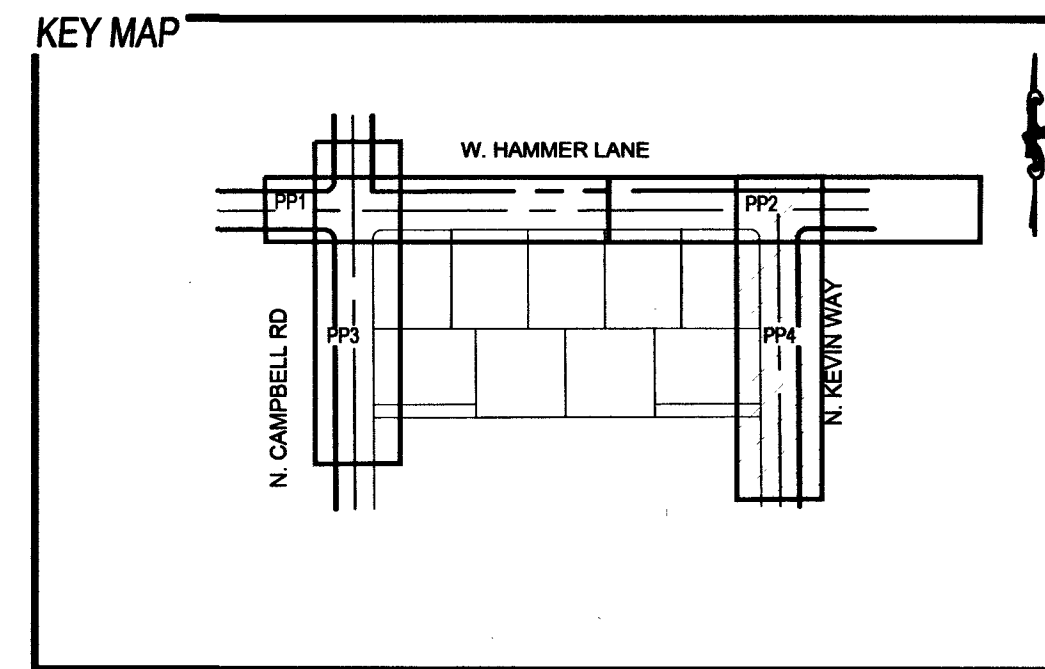


NORTH KEVIN WAY (PUBLIC) - PROFILE
STA: 10+00.00 TO 14+22
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
 INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO.15

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

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")
 PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
 FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.



GRADING CONSTRUCTION NOTES

1. 5.0' CONCRETE CHANNEL (SEE DETAIL 'G' ON GD1)
 2. INSTALL 48"x16" BLOCK WALL OPENING (SEE DETAIL 'H' ON GD1)
 3. SAWCUT & REMOVE EX AC PAVEMENT (PER CCAUSD 503, 500.3 & 500.4)
 4. 3" AC PAVEMENT OVER 4" TYPE II (PER GEOTECHNICAL REPORT # DW17-42287)
 5. SOLID CROUT 3 COURSES ABOVE FG MIN.
 6. DECORATIVE 6" BLOCK WALL
 7. Z CUT-OFF WALL (DETAIL UGD1)
 8. DRIVEWAY: 2" AC OVER 4" TYPE II (DETAIL P/GD1) (SEE DRIVEWAY NOTE ON THIS SHEET)
 9. INSTALL 24" L-TYPE CURB & GUTTER (USD #216)
1. 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
 2. 4" SEWER LATERAL PER DCSWCS SD-22
 3. SAWCUT REMOVE AND REPLACE EXISTING AC PAVEMENT PER CCAUSD # 503, 500.4 & 500.5
 4. FIRE HYDRANT ASSEMBLY W/ 8" GATE VALVE (UDACS PLT. 40)
 5. 8" WATERLINE TEE (UDACS PLT. 31)
 6. INSTALL END CAP & 2" BLOW-OFF ASSEMBLY (UDACS PLT. 38)
 7. 8"x6" TEE (UDACS PLT. 31)
 8. 8" GATE VALVE (UDACS PLT. 30 & 39)
 9. PROTECT EX. SEWER LINE (PER SD-21)
 10. 8" 45° HORIZONTAL WATERLINE BEND (UDACS PLT. 31)
 11. 8" SEWER LATERAL PER DCSWCS SD-22
 12. 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
 13. JENSEN HT124 TRAFFIC RATED BOX OR EQUIVALENT IMPROVED CONDITION METER BOX COLLAR
 14. REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY
 15. 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & LID PER DCSWCS STANDARDS
 16. REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY & CONNECT TO EX MAIN WITH 10" X 8" REDUCER & 1" MAX HORIZONTAL DEFLECTION (UDACS PLT. 30)
 17. 1" MAX HORIZONTAL DEFLECTION

DRIVEWAY NOTE

PROPOSED DRIVEWAY APPROACHES IN RIGHT-OF-WAY ARE NON-STANDARD IMPROVEMENTS AND ARE NOT MAINTAINED BY CLARK COUNTY PUBLIC WORKS.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
 6835 S. ESCONDIDO ST. STE. B
 LAS VEGAS, NV 89119
 (702) 897-1424
 REPORT NO.: 11240-LVR6
 DATE: 06/18/13
 REVISED: 01/20/15
 UPDATE: 06/02/17

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

PROFILE NOTES

ADD 2500 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
 ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO GOVERNING ENTITY.

BASIS OF BEARING

NORTH 89°40'09" EAST
 BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 80 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD83
 CITY OF LAS VEGAS BM NO. 84060326 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD
 NAVD83 ELEV: 2507.62 (FEET)
 754.329 (METERS)

APPROVED FOR CONSTRUCTION

Shane Dean
 LAS VEGAS VALLEY WATER DISTRICT, ENGINEERING SERVICES
 FIRST APPROVED DATE: 12-21-12
 PROJECT: 125555
 LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

CLARK COUNTY
 DEPARTMENT OF PUBLIC WORKS
 DEVELOPMENT REVIEW
 ACCEPTANCE OF PLANS FOR FILING

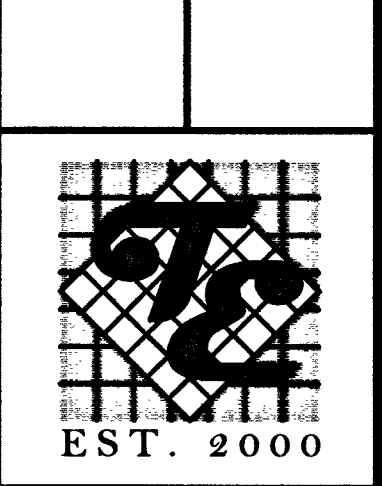
BY: _____ DATE: _____
 CHECKED BY: _____

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.

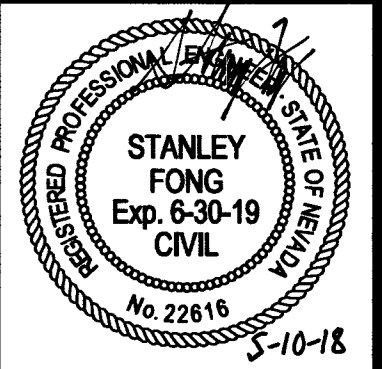
NO.	DESCRIPTION	BY	SFTS.	APPR.	DATE

THM ENTERPRISES LLC
 9205 W. RUSSELL ROAD STE. 235
 LAS VEGAS, NV 89118
 (702) 823-3151 FAX: (702) 823-3899

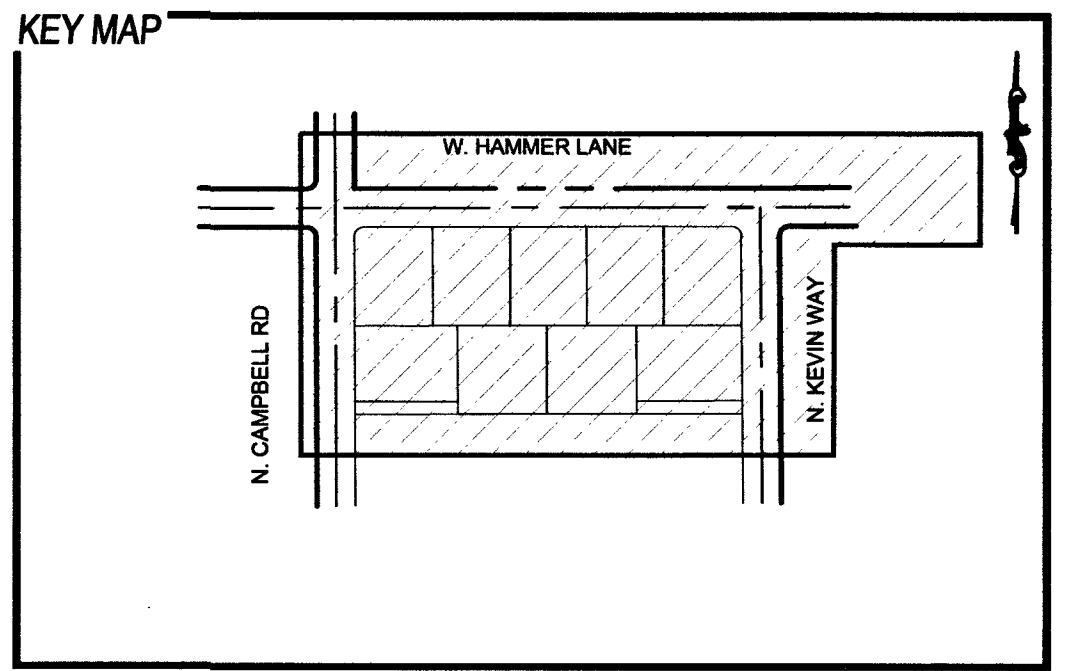
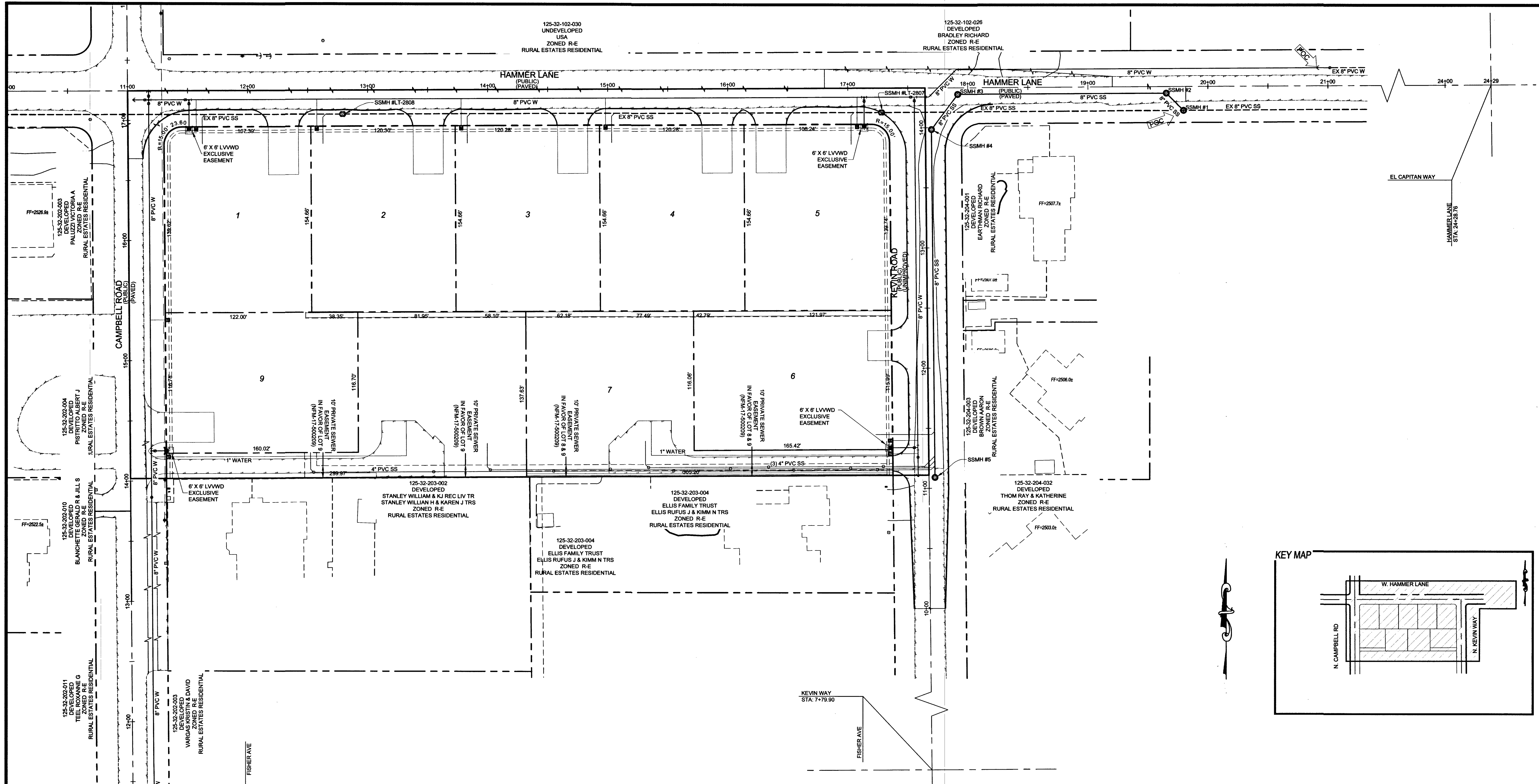
STANLEY FONG
 6803 S. JONES BOULEVARD
 LAS VEGAS, NV 89118
 (702) 362-8644 FAX: (702) 362-8233



HAMMER & KEVIN
 A RESIDENTIAL SUBDIVISION
NORTH KEVIN WAY
STA: 10+00 TO 14+22
PLAN AND PROFILE 4



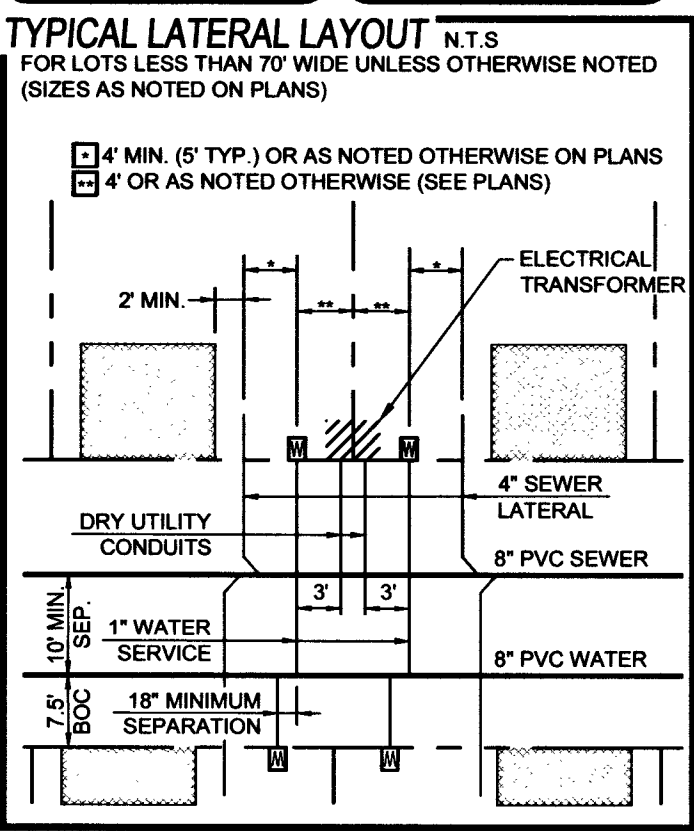
DATE: 5/10/2018
 SCALE: 1"=30'
 JOB NO: THM-17-013
 DESIGNED BY: SB CHECKED BY: SF
 SHEET NAME: PP4
 SHEET NUMBER: 10 OF 15
 CLV 17-01036
 CC HTE# PW17-39999-SDF



Call before you Overhead
1-702-227-2929

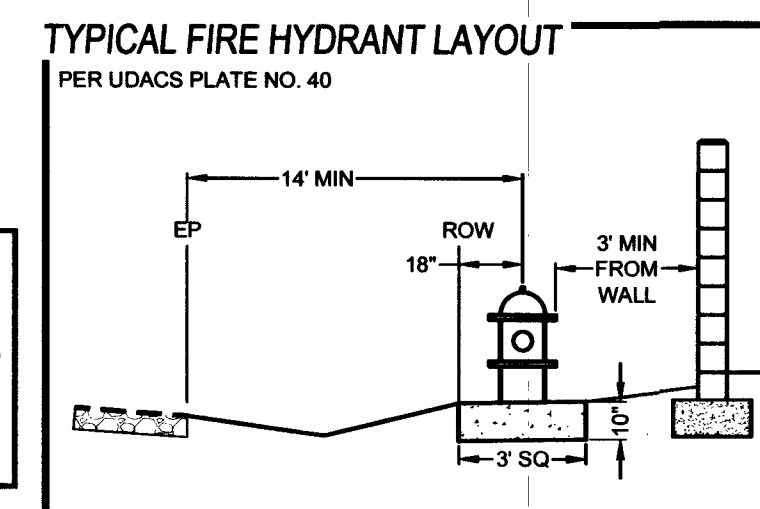
Call before you Dig
811
1-800-227-2600

FAST
Call before you Underground
1-702-432-5300



WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

WASTEWATER CALCULATIONS
FACILITY TYPE: SINGLE FAMILY RESIDENTIAL
TOTAL UNITS AT BUILD OUT: 9 HOUSES
AVERAGE FLOW = 0.0022 MGD (9 ERUS)
PEAK FLOW = 0.0077 MGD (32 ERUS)
PEAK + WET WEATHER = 0.0097 MGD (40 ERUS)



FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENT IS 2000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
BASED ON:
AREA UNDER ROOF: 5000-SF MAX
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
HEIGHT: 35-FT MAX
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO
TOTAL HYDRANTS: 4

UTILITY DISCLAIMER
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

- UTILITY NOTES
- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
 - FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
 - WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
 - LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
 - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 - ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
 - ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
 - INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
 - 3 MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
 - 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

SCALE: 1" = 40'

BASIS OF BEARING
NORTH 89°40'09" EAST
BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK
PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BM NO. 9LV8032W6 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD
NAVD88 ELEV: 2507.62 (FEET)
764.329 (METERS)

APPROVED FOR CONSTRUCTION
CLARK COUNTY FIRE DEPARTMENT
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. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL. FF17-44628

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 5-31-18 PROJECT# 125555
LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

DATE: 5/10/2018
SCALE: 1"=40'
JOB NO: THM-17-013
DESIGNED BY: SB CHECKED BY: SF
SHEET NAME: MUT
SHEET NUMBER: 11 OF 15
CLV L17-01036
CC HTE# PW17-39999-SDF

THM ENTERPRISES LLC
9285 W. RUSSELL ROAD STE. 233
LAS VEGAS, NV 89118
(702) 925-3131 FAX: (702) 925-3889

THM & KEVIN
A RESIDENTIAL SUBDIVISION

REVISIONS

NO.	DESCRIPTION	BY	SPTS.	APPR.	DATE

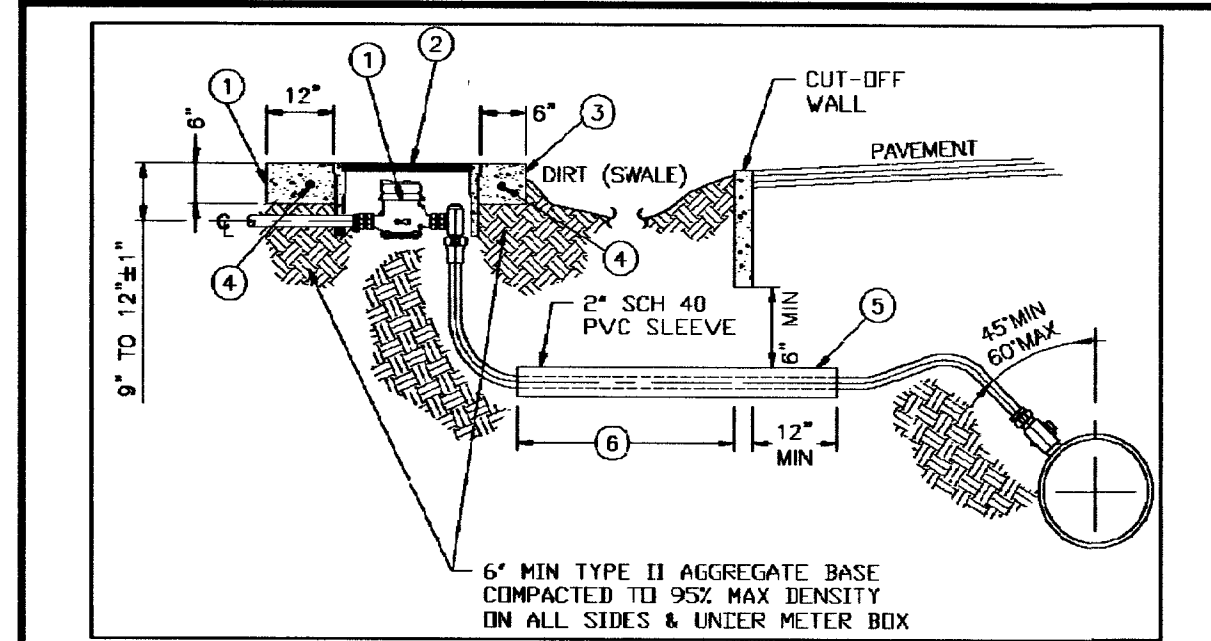
MASTER UTILITY PLAN

STANLEY FONG
Exp. 5-30-19
CIVIL
No. 22616

5-10-18

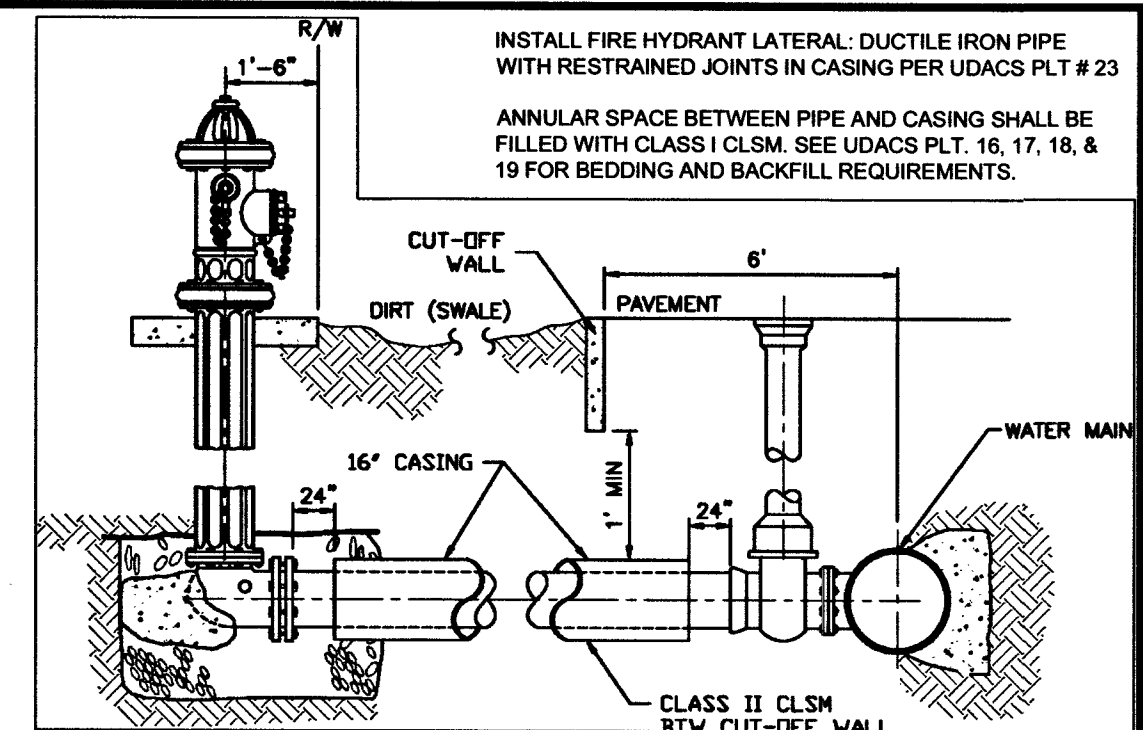
FILE NAME: 125-32-203-003

PROJ# 125555 AGR: 16561 QS-125-32-NW



1. INSTALL 1" METER PER UDACS PLATE #3
2. INSTALL ARMORCAST 1" METER BOX ASSEMBLY (P800485T/A6000484T) OR APPROVED EQUAL
3. 6" THICK FORMED CONCRETE COLLAR
4. #4 REBAR 2" FROM BOTTOM, CENTERED WITHIN EACH SIDE OF COLLAR 4" MIN OVERLAP
5. 2" SCHEDULE 40 PVC SLEEVE, 6" MIN SEPARATION BETWEEN SLEEVE & BOTTOM OF CUT OFF WALL

DETAIL Y SERVICE SADDLE AND METER COLLAR WITH CUT-OFF WALL

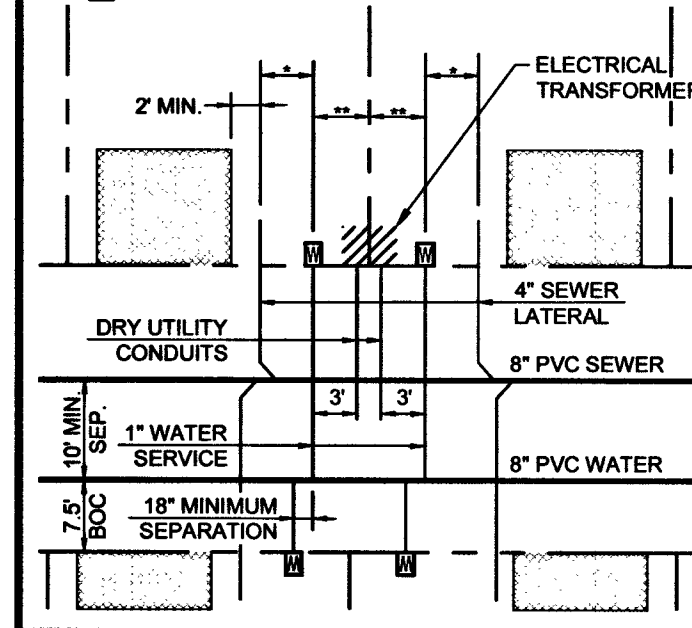


1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #40
2. INSTALL 16" CASING 24" FROM HYDRANT VALVE AND 24" FROM 90° BEND PER UDACS PLATE #23
3. MIN. 1" SEPARATION BETWEEN STEEL CASING & BOTTOM OF CUT OFF WALL
4. BACKFILL WITH CLSM (CLASS I) IN DIRT AREA

DETAIL Z FIRE HYDRANT LATERAL CASING

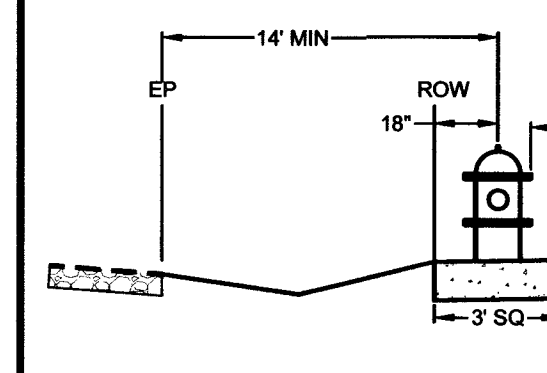
TYPICAL LATERAL LAYOUT

FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



MATCHLINE SEE SHEET PP3

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

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

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

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

UTILITY CONSTRUCTION NOTES

1. 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
2. 4" SEWER LATERAL PER DCSWCS SD-22
3. SAWCUT REMOVE AND REPLACE EXISTING AC PAVEMENT PER CCAUSD #503, 500.4 & 500.5
4. FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40) - PUBLIC
5. 6" WATERLINE TEE (UDACS PLT. 31)
6. INSTALL END CAP & 2" BLOW-OFF ASSEMBLY (UDACS PLT. 36)
7. 6"x6" TEE (UDACS PLT. 31)
8. 6" GATE VALVE (UDACS PLT. 30 & 39)
9. PROTECT EX. SEWER LINE (PER SD-21)
10. 8" 45° HORIZONTAL WATERLINE BEND (UDACS PLT. 31)
11. CLEANOUT WITH TRAFFIC RATED LID PER DCSWCS SD-28
12. 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4) JENSEN HTI234 TRAFFIC RATED BOX OR EQUIVALENT UNIMPROVED CONDITION METER BOX COLLAR
13. REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY
14. 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & SINGLE 24" LID PER DCSWCS STANDARDS
15. REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY & CONNECT TO EX MAIN WITH 10" X 8" REDUCER & 1" MAX HORIZONTAL DEFLECTION (UDACS PLT. 30)
16. 1" MAX HORIZONTAL DEFLECTION
17. STEEL ENCASING (UDACS PLT. 23)
18. 6" CROSS (UDACS PLT. 31)

BACKWATER VALVE (BWV)

LOTS 1, 2, 3, 4, 5. THESE LOTS HAVE DRAINAGE PIPING FEATURE THAT ARE LOWER THAN THE NEXT UPSTREAM SEWER MANHOLE COVER AND SHALL HAVE BACKWATER VALVES INSTALLED PER DCSWCS SD-29.

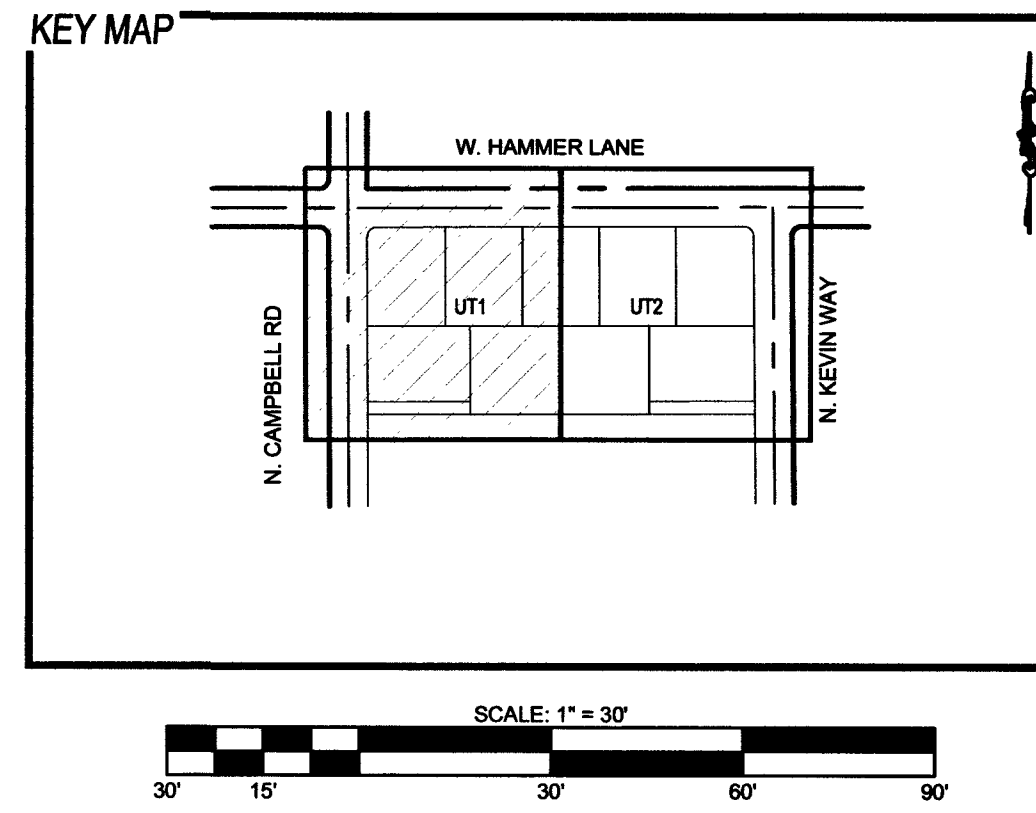
USE OF CUT-OFF WALLS NEAR LVVWD FACILITIES

FIVE FEET MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN THE CUT-OFF WALL AND THE WATER MAIN, FOR CROSSING OVER THE PROPOSED WATER MAIN, THE MAIN MUST BE WITHIN A STEEL CASING (PER UDACS PLATE 23) SPANNING FIVE FEET ON EITHER SIDE OF THE CUTOFF WALL AND VERTICAL SEPARATION OF NO LESS THAN ONE FOOT BETWEEN TOP OF CASING AND BOTTOM OF THE WALL. IF THE MAIN IS EXISTING, A MINIMUM OF ONE FOOT VERTICALLY IS REQUIRED AND CLSM 1 BETWEEN THE TOP OF THE MAIN AND THE BOTTOM OF THE CUTOFF WALL.

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.



SCALE: 1" = 30'

WASTEWATER CALCULATIONS

FACILITY TYPE: SINGLE FAMILY RESIDENTIAL
TOTAL UNITS AT BUILD OUT: 9 HOUSES
AVERAGE FLOW = 0.0022 MGD (9 ERUS)
PEAK FLOW = 0.00777 MGD (32 ERUS)
PEAK + WET WEATHER = 0.0097 MGD (40 ERUS)
CALCULATIONS:
AVG FLOW = 9 X 90,000 GAL X 1 MG = 0.0022 MGD
365 DAYS 1,000,000 G
PEAK FLOW = 0.0022 X 3.5 = 0.00777 MGD
PEAK + WET WEATHER FLOW = 0.00777 MGD X 1.25 = 0.0097 MGD

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
BASED ON:
AREA UNDER ROOF: 5000-SF MAX
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
HEIGHT: 35-FT MAX
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO
TOTAL HYDRANTS: 4
OCCUPANCY: R-3
ROOF CONSTRUCTION: TILE
STORIES: 2
HIGH PILED COMBUSTIBLE
STORAGE: NO
ESFR SYSTEM: NO

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT. 15.)
9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BASIS OF BEARING

NORTH 89°40'00" EAST
BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 22, TOWNSHIP 19 SOUTH, RANGE 90 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEY, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD83
CITY OF LAS VEGAS BM NO. 9LV9032W6 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD
NAVD83 ELEV: 2507.62 (FEET)
764.329 (METERS)

APPROVED FOR CONSTRUCTION

CLARK COUNTY FIRE DEPARTMENT
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. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 5-31-18 PROJECT# 125555
LVVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

FAST
Call before you Dig
Underground
1-702-432-5300
FREEWAY & ARTERIAL
SYSTEM OF TRANSPORTATION

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

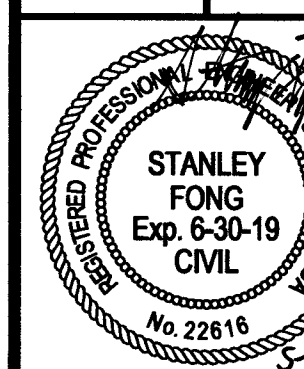
Call before you Dig
Overhead
1-702-227-2929

THM ENTERPRISES LLC
6025 W. RUSSELL ROAD STE. 235
LAS VEGAS, NV 89118
(702) 923-3151 FAX: (702) 923-3889

THM ENGINEERING
6003 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 923-2844 FAX: (702) 923-2833

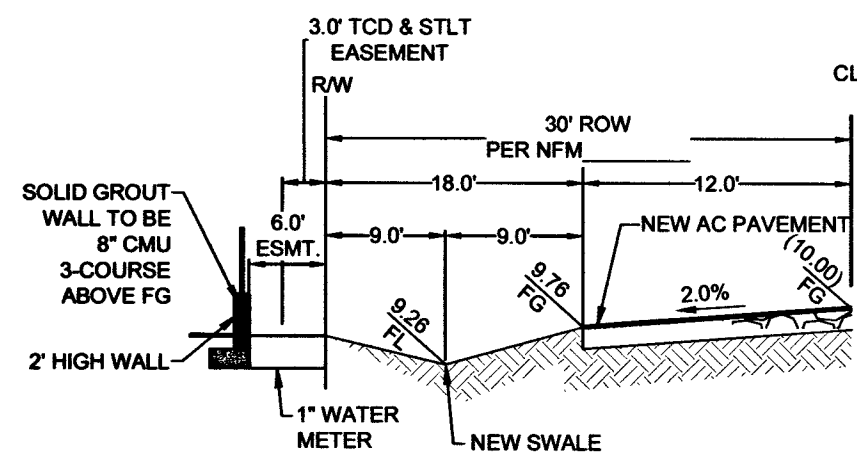


HAMMER & KEVIN
A RESIDENTIAL SUBDIVISION

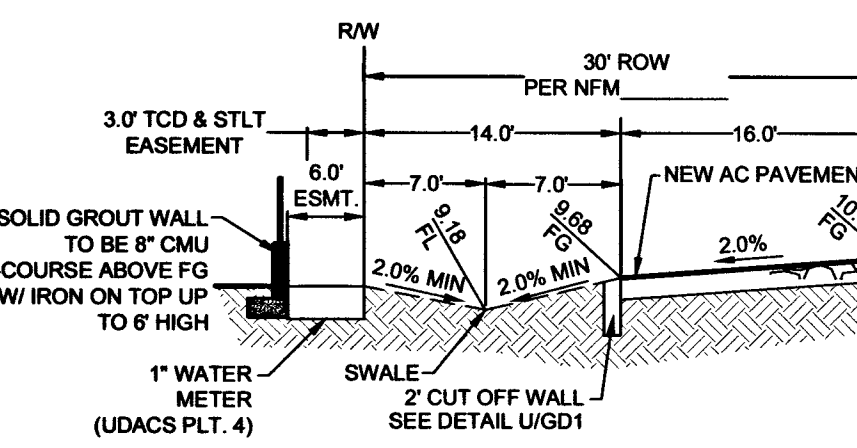


DATE: 5/10/2018
SCALE: 1"=30'
JOB NO: THM-17-013
DESIGNED BY: SB CHECKED BY: SF
SHEET NAME: UT1
SHEET NUMBER: 12 OF 15
CLV: 307/V1/H/1
L17-01036
CC HTE# PW17-39999-SDF

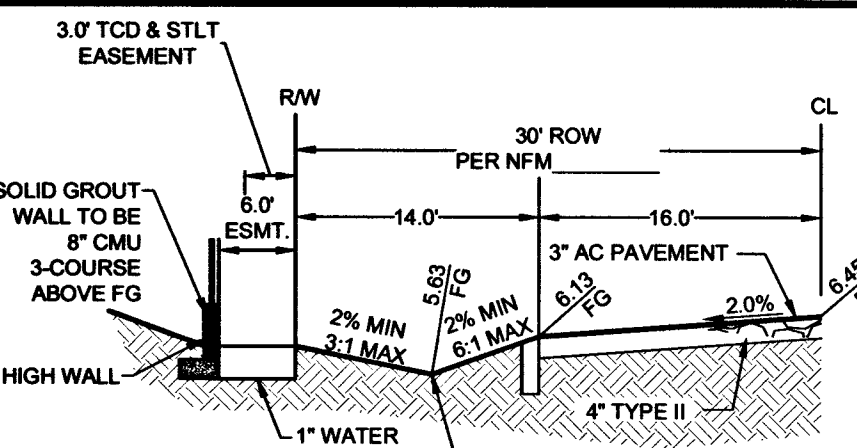
PROJ# 125555 AGR:116561 QS:25-32-NW



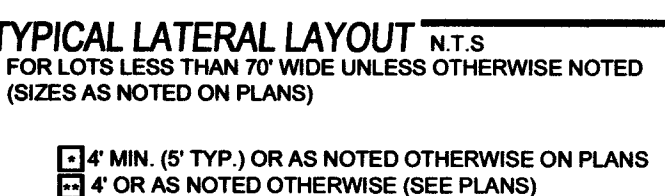
**TYPICAL WATER SERVICE METER
ALONG CAMPBELL ROAD
SECTION AA**



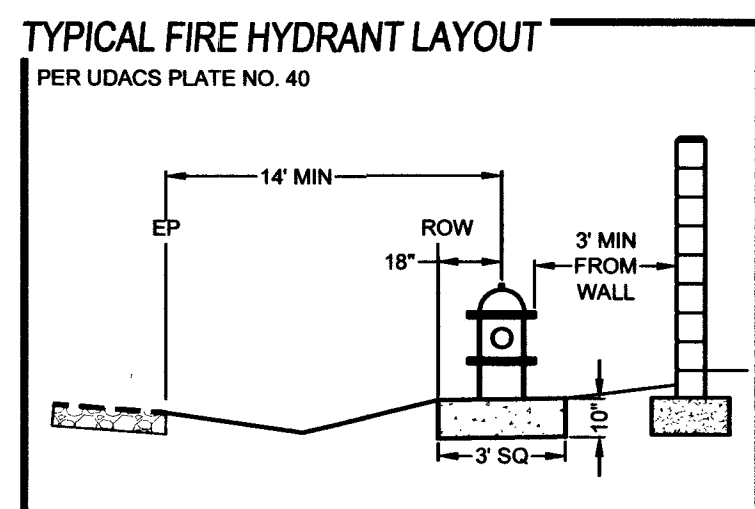
**TYPICAL WATER SERVICE METER
ALONG HAMMER LANE
SECTION BB**



**TYPICAL WATER SERVICE METER
ALONG KEVIN WAY
SECTION CC**



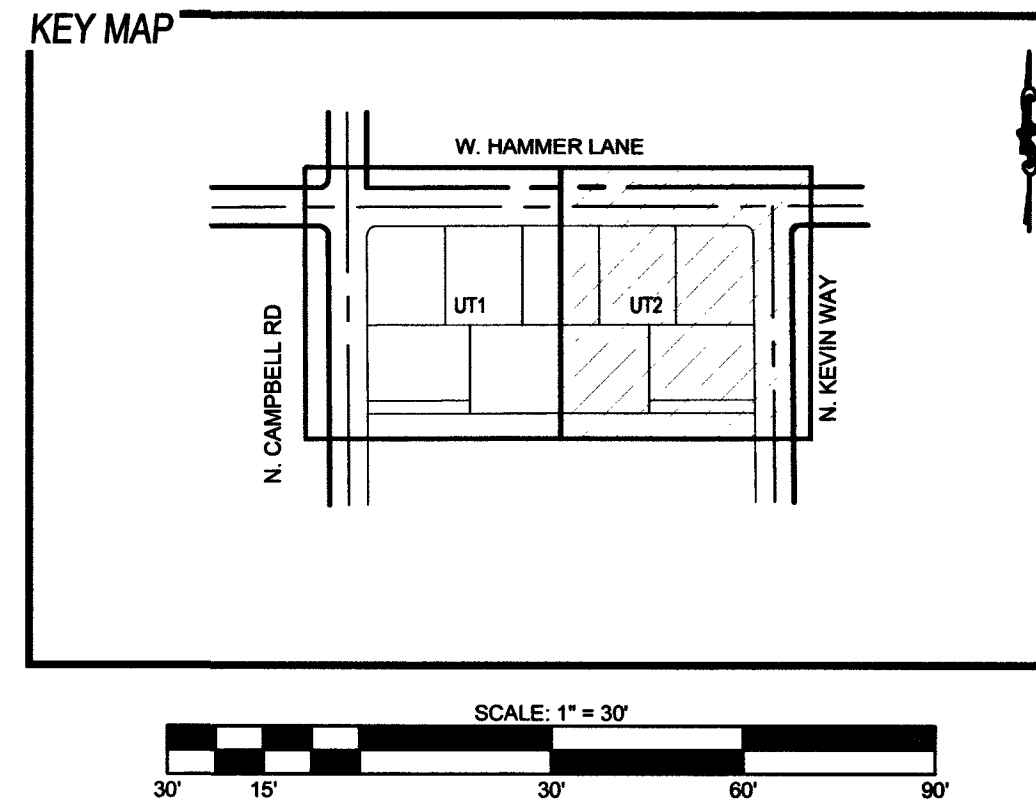
TYPICAL LATERAL LAYOUT



TYPICAL FIRE HYDRANT LAYOUT

MATCHLINE SEE SHEET UT1

MATCHLINE SEE SHEET PP2



WASTEWATER CALCULATIONS

FACILITY TYPE: SINGLE FAMILY RESIDENTIAL
TOTAL UNITS AT BUILD OUT: 9 HOUSES
AVERAGE FLOW = 0.0022 MGD (9 ERUS)
PEAK FLOW = 0.0077 MGD (32 ERUS)
PEAK + WET WEATHER = 0.0097 MGD (40 ERUS)
CALCULATIONS:
AVG FLOW = 9 X 90,000 GAL X 1 MG = 0.0022 MGD
365 DAYS 1,000,000 G
PEAK FLOW = 0.0022 X 3.5 = 0.0077 MGD
PEAK + WET WEATHER FLOW = 0.0077 MGD X 1.25 = 0.0097 MGD

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
BASED ON:
AREA UNDER ROOF: 5000-SF MAX
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
HEIGHT: 35-FT MAX
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO
TOTAL HYDRANTS: 4
OCCUPANCY: R-3
ROOF CONSTRUCTION: TILE
STORIES: 2
HIGH PILED COMBUSTIBLE
STORAGE: NO
ESFR SYSTEM: NO

UTILITY NOTES

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
- FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
- WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
- LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
- ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
- ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT. 15)
- 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
- 12' MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.06

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BASIS OF BEARING

BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD83
CITY OF LAS VEGAS BM NO. 8L9032W - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD
NAVD83 ELEV: 2507.62 (FEET)
784.329 (METERS)

APPROVED FOR CONSTRUCTION

CLARK COUNTY FIRE DEPARTMENT
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. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL. *FP17-44628*

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
FIRST APPROVED DATE: 5-21-18 PROJECT# 125555
LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

UTILITY CONSTRUCTION NOTES

- 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4)
- 4" SEWER LATERAL PER DCSWCS SD-22
- SAWCUT REMOVE AND REPLACE EXISTING AC PAVEMENT PER CCAUSD # 503, 500.4 & 500.5
- FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40) - PUBLIC
- 6" WATER LINE TEE (UDACS PLT. 31)
- 8" GATE VALVE (UDACS PLT. 30 & 39)
- PROTECT EX. SEWER LINE (PER SD-21)
- 45" HORIZONTAL WATER LINE BEND (UDACS PLT. 31)
- CLEANOUT WITH TRAFFIC RATED LID PER DCSWCS SD-26
- 1" TYPE K COPPER WATER LATERAL W/ 1" METER (UDACS PLT. 4) JENSEN HT1234 TRAFFIC RATED BOX OR EQUIVALENT UNIMPROVED CONDITION METER BOX COLLAR
- REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY
- 4" MANHOLE, BASE PRECAST, GRADE RING COLLAR & SINGLE 24" LID PER DCSWCS STANDARDS
- REMOVE EXISTING END CAP & 2" BLOW-OFF ASSEMBLY & CONNECT TO EX MAIN WITH 10" X 8" REDUCER & 1" MAX HORIZONTAL DEFLECTION (UDACS PLT. 30)
- 1" MAX HORIZONTAL DEFLECTION
- STEEL ENCASED (UDACS PLT. 23)
- CROSS (UDACS PLT. 31)

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOLDERS, FENCES, WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.
LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

BACKWATER VALVE (BWV)

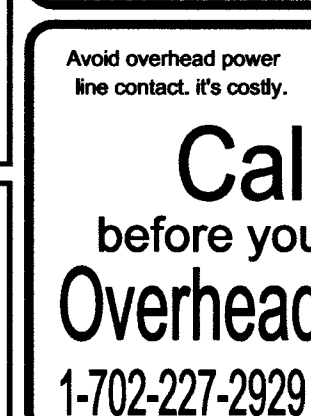
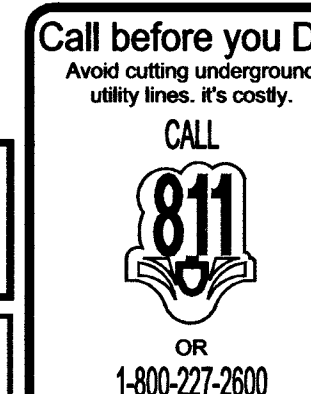
LOTS 1, 2, 3, 4, 5.
THESE LOTS HAVE DRAINAGE PIPING FEATURE THAT ARE LOWER THAN THE NEXT UPSTREAM SEWER MANHOLE COVER AND SHALL HAVE BACKWATER VALVES INSTALLED PER DCSWCS SD-29.

USE OF CUT-OFF WALLS NEAR LVVWD FACILITIES

FIVE FEET MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN THE CUT-OFF WALL AND THE WATER MAIN. FOR CROSSING OVER THE PROPOSED WATER MAIN, THE MAIN MUST BE WITHIN A STEEL CASING (PER UDACS PLATE 23) SPANNING FIVE FEET ON EITHER SIDE OF THE CUTOFF WALL AND VERTICAL SEPARATION OF NO LESS THAN ONE FOOT BETWEEN TOP OF CASING AND BOTTOM OF THE WALL. IF THE MAIN IS EXISTING, A MINIMUM OF ONE FOOT VERTICALLY IS REQUIRED AND CLSM 1 BETWEEN THE TOP OF THE MAIN AND THE BOTTOM OF THE CUTOFF WALL.

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.



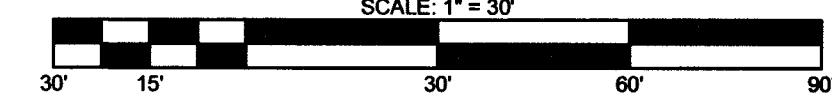
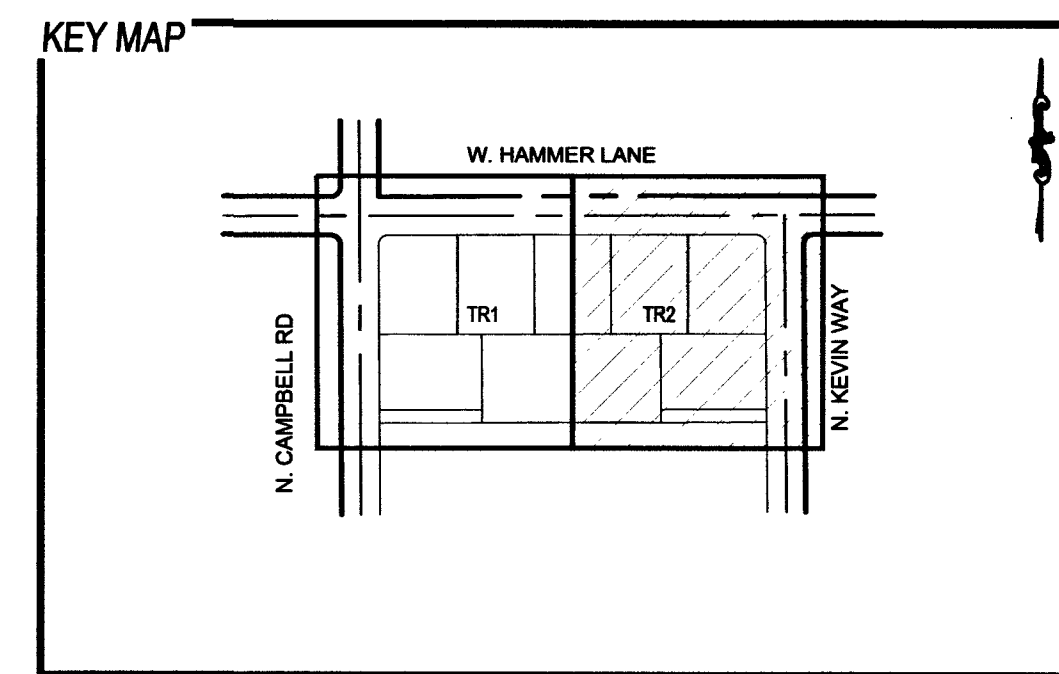
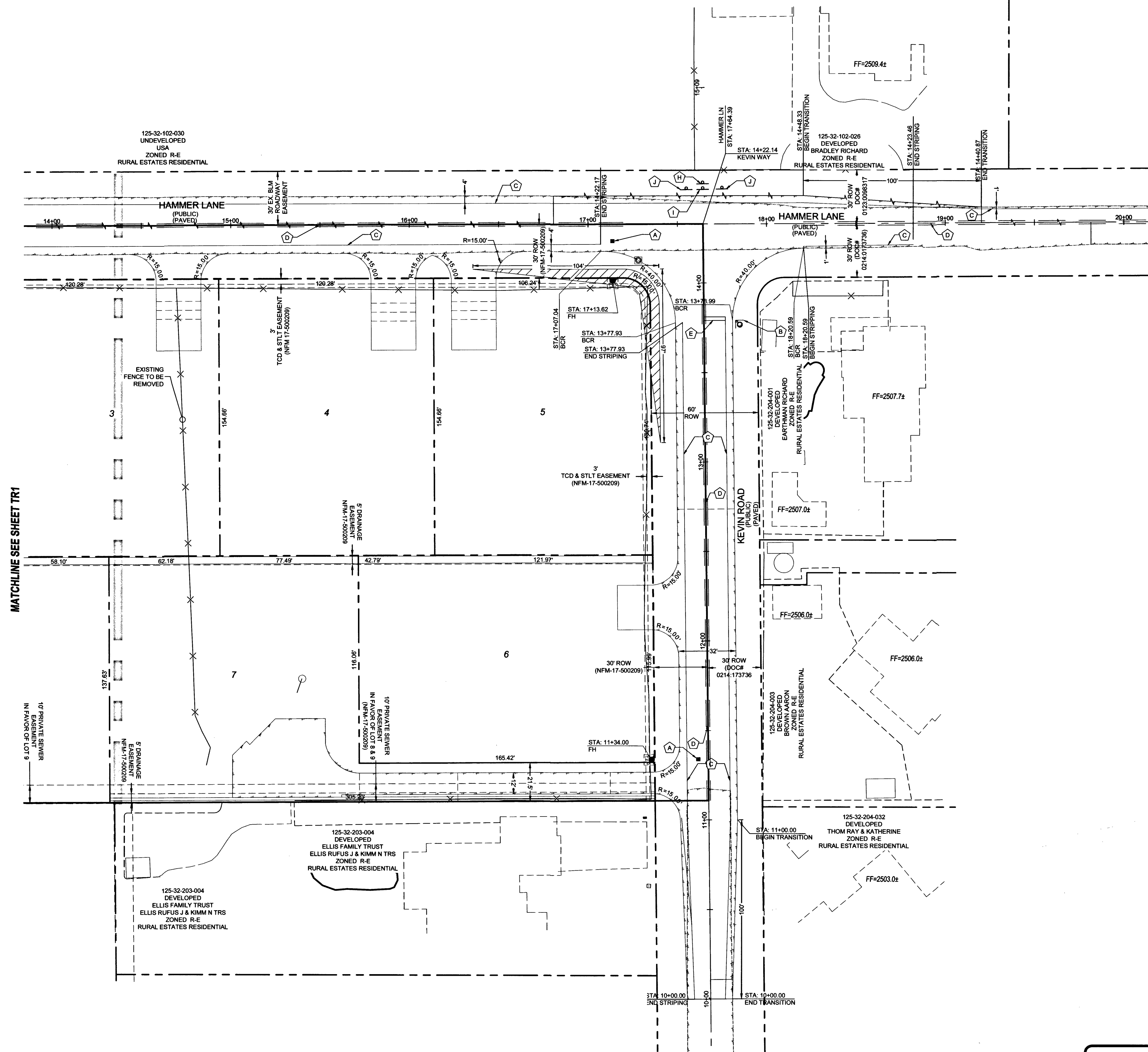
THM ENTERPRISES LLC
9205 W. RUSSELL ROAD, STE. 235
LAS VEGAS, NV 89119
(702) 923-3131 FAX: (702) 923-3889

STANLEY FONG
Exp. 6-30-19
CIVIL
No. 22616
EST. 2000

HAMMER & KEVIN
A RESIDENTIAL SUBDIVISION
UTILITY PLAN 2

DATE: 5/10/2018
SCALE: 1"=30'
JOB NO: THM-17-013
DESIGNED BY: SB CHECKED BY: SF
SHEET NAME: UT2
SHEET NUMBER: 13 OF 15
CLV 307V1714/ L17-01036
CC HTE# PW17-39999-SDF

PROJ.#: 125555 AGR: 16565 QS: 125-32-2W



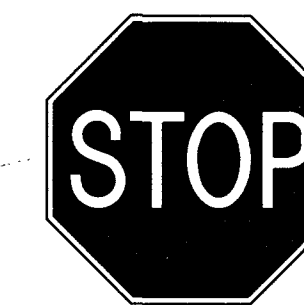
- # TRAFFIC CONSTRUCTION NOTES
- A BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS
 - B INSTALL 30" R-1 "STOP" SIGN W/ TWO (2) 9" D-3 "STREET NAME" SIGNS
 - C INSTALL 4" WHITE PAINTED EDGE LINE
 - D INSTALL TYPE I CENTERLINE (CCAUSD #244 RPM)
 - E INSTALL 24" WIDE WHITE STOP BAR (CCAUSD #254)
 - F MATCH EXISTING TYPE I CENTERLINE
 - G MATCH EXISTING 4" SOLID WHITE LINE
 - H INSTALL W-1 SIGN
 - I INSTALL 18" OM-4-2 SIGN
 - J INSTALL TYPE III BARRICADES

SIGHT VISIBILITY ZONES (SVZ)
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. (COSAUL 201)

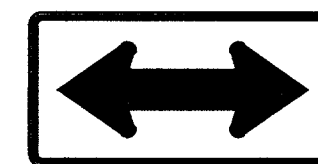
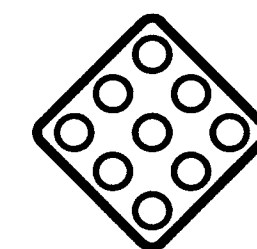
BASIS OF BEARING
NORTH 89°40'09" EAST

BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN FILE 200 PAGE 45 OF SURVEYS, CLARK COUNTY, NEVADA, OFFICIAL RECORDS.

TRAFFIC SIGN LEGEND



R1-1
30° PER NOTE C



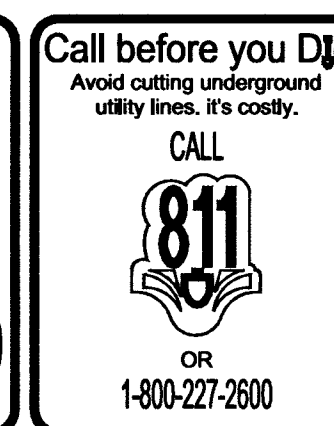
UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BM NO. 9LV9032W6 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN
CONCRETE PAD, WEST SIDE OF CAMPBELL ROAD, +/- 142' SOUTH OF WASHBURN ROAD

NAVD88 ELEV: 2507.62 (FEET)
764.329 (METERS)



Clark County Public Works
ACCEPTED

BY: WAM

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 OF UNIFORM TRAFFIC
CONTROL DEVICES.

[illegible]

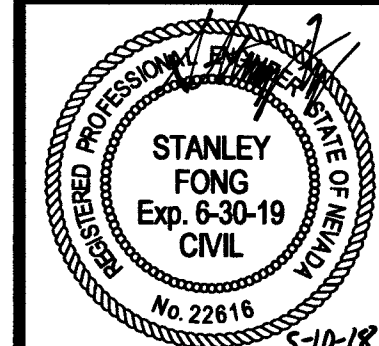
THM ENTERPRISES LLC
9205 W. RUSSELL ROAD STE. 235
LAS VEGAS, NV 89149

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8944 FAX: (702) 362-5233



HAMMER & KEVIN A RESIDENTIAL SUBDIVISION

TRAFFIC PLAN 2



DATE: 5/10/2018

SCALE: 1"=30'

JOB NO: THM-17-013

DESIGNED BY:	CHECKED BY:
SB	SF

SHEET NAME:

TR2

QUESTIONS

SHEET NUMBER: **15**

15 OF 15