UTILITY LEGEND/NOTES

WATER [45] WATER MAIN FITTING AS NOTED

- Ⓦ PROPOSED WATER METER
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- Ⓘ PROPOSED IRRIGATION VALVE
- EXISTING WATER LINE — — — W — — — W —
- PROPOSED C900 WATER LINE —— W ——— W ——
- EXISTING IRRIGATION LINE —— — — IRR ——
- PROPOSED HDPE IRRIGATION LINE —— IRR ——

- NOTES -

1. ALL WATERLINE WORKS MUST BE INSTALLED BY A CONTRACTOR THAT HAS BEEN PRE-QUALIFIED BY THE IVINS CITY WATER DEPARTMENT
2. ALL CONSTRUCTION SHALL CONFORM TO "IVINS CITY" STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION", "THE INTERNATIONAL PLUMBING CODE", AND THE "INTERNATIONAL BUILDING CODE" LATEST EDITION ADMINISTERED BY THE CITY OF IVINS
3. CONTRACTOR SHALL POTHOLE ALL PIPELINES AND VERIFY LOCATION AND DEPTH PRIOR TO PROCEEDING WITH ANY BUILDING OR PIPELINE CONSTRUCTION
4. THE POTABLE WATER SUPPLY TO LAWN IRRIGATION SYSTEMS SHALL BE PROTECTED AGAINST BACKFLOW PER THE INTERNATIONAL PLUMBING CODE (IPC) SECTION 608.16.5 AND FOR FIRE SPRINKLER SYSTEMS PER (IPC) 608.06.4
5. ALL BACKFLOW ASSEMBLY INSTALLATION AND TEST REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF IVINS BACKFLOW ORDINANCE 9-1-1997-5-6-5
6. 14 GAUGE WIRE SHALL BE TAPED TO ALL WATER LINES FOR LOCATING PURPOSES. THE WIRE SHALL ALSO BE BROUGHT UP AT EACH VALVE BOX, HYDRANT AND METER
7. THRUST RESTRAINT ON THE NEW PIPELINE WILL BE AS SHOWN ON THE DETAILS USE MEGA-LUG ON THE FITTINGS AND FIELD LOCK GASKETS ON THE REQUIRED LENGTH OF RESTRAINED PIPE
8. ASPHALT REPLACED OVER THE PIPE TRENCHING IS TO MATCH EXISTING PAVEMENT DEPTHS WITH A 24" OVER CUT FROM EDGE OF THE TRENCH LINE ON EACH SIDE OF THE TRENCH.
9. CONTRACTORS SHALL CUT OFF AND CAP (BACK AT THE WATER MAIN). ALL EXISTING SERVICE LINES OR UN-USED STUB LINES THAT WILL BE ABANDONED
10. ANY CHANGES MADE IN THE FIELD MUST BE FIRST APPROVED AND DOCUMENTED BY KMU WC AND IVINS CITY

SEWER

- EXISTING SEWER LINE — — SS — — — SS — —
- PROPOSED HDPE SEWER LINE —— SS ——
- EXISTING SEWER MANHOLE (SIZE AS NOTED) Ⓢ
- PROPOSED SEWER LATERAL ——

NOTE TRACER WIRE ON SEWER TO BE CONTINUOUS BETWEEN ACCESS POINTS

NOTE PROPOSED IRRIGATION IS PRIVATE AND NOT A REQUIRED IMPROVEMENT

BAJA BROADBAND

- Ⓔ EXISTING CABLE PEDESTAL
- Ⓑ CABLE PEDESTAL (NUMBER INDICATES TURN-UPS)
- EXISTING CABLE LINE — — — — — — — —
- CABLE LINE (2" CONDUIT) —— TV ——

- NOTES -

1. DEVELOPER WILL PROVIDE ALL REQUIRED TRENCH
2. BAJA BROADBAND WILL PROVIDE 2" CONDUITS. PLEASE CONTACT RANDALL @ 435-705-6006 AT LEAST ONE WEEK PRIOR TO OPENING TRENCH TO SCHEDULE WORK.
3. THE DEVELOPER SHALL PROVIDE ALL STREET NAMES AND ADDRESSES AFTER FINAL JUC APPROVAL.
4. FAILURE TO COMPLETE 1-3 ABOVE COULD CAUSE DELAYS IN SERVICE.
5. ANY QUESTIONS REGARDING SERVICE SHOULD BE DIRECTED TO RANDALL LOPEZ WITH BAJA BROADBAND @ 435-705-6006
6. RELOCATION OF NEW OR EXISTING BAJA BROADBAND FACILITIES WILL BE BILLABLE TO THE DEVELOPER/CONTRACTOR
7. ANY MODIFICATIONS AFTER CONDUIT/CABLE PLACEMENT WILL BE BILLABLE TO THE DEVELOPER/CONTRACTOR AS WILL DAMAGES CAUSED BY OTHER CONTRACTORS WORKING FOR THE DEVELOPER ON THIS PROJECT

QUESTAR

- EXISTING QUESTAR GAS LINE — — — G — — — G —
- PROPOSED QUESTAR GAS LINE —— G ——— G ——

- NOTES -

DEVELOPER NEEDS TO CONTRACT BECKY MARCHAL AT 435-674-6116 QUESTAR'S GAS MARKETING DEPARTMENT PRIOR TO BREAKING GROUND FOR GAS SIGN UP

DEVELOPER WILL BE RESPONSIBLE TO GET ALL COMPACTION TEST DONE AT DEVELOPER EXPENSE.

IF CASINGS ARE NEEDED, THEY ARE TO BE INSTALLED BY DEVELOPER AT HIS/HER COST. A MAP WILL BE AVAILABLE AT QUEST AR GAS FOR CASING'S LOCATIONS (1135 E. 350 N. STG)

ALL OF THE 10' UTILITY EASEMENTS BACK OF SIDEWALK WILL BE GRADED TO WITHIN 6 INCHES OF TOP BACK OF CURB BEFORE GAS LINES WILL BE INSTALLED

*****DEVELOPER WILL BE RESPONSIBLE FOR THE COST OF ANY GAS LINES TO BE LOWERED AND/OR RELOCATED AFTER INSTALLATION ALL TRENCHES SHALL BE BACKFILLED AND ALL DEBRIS, CONSTRUCTION MATERIALS AND EXCESS DIRT PILES SHALL BE CLEARED AWAY PROPERTY LOT LINES WITH TO BACK OF CURB AND GRADE (CUL-DA-SAC'S STAKE RADIUS) MUST BE STAKED BY THE DEVELOPER BEFORE GAS WILL BE INSTALLED

POWER, WATER, SEWER LINES, CULVERTS AND OTHER HAZARDS NOT CLEARLY NOTICEABLE SHALL BE STAKED BY DEVELOPER BEFORE GAS LINES WILL BE INSTALLED

FAILURE TO COMPLY WITH THE ABOVE NOTES WILL RESULT IN A DELAY OF GAS LINES INSTALLATION TO THIS PROJECT. CONTACT SCOTT @ 435-674-6154 FOR SCHEDULING.

*****IMPORTANT NOTICE*****
GAS WILL BE PUT ON THE SCHEDULE FOR INSTALLATION WHEN POWER TRENCH IS BURIED, STREETS ARE WITHIN 6" OF SUBGRADE AND 10' UTILITY EASEMENT ARE WITHIN 6" OF FINAL GRADE OF TOP BACK OF CURB.

NOTE JUC LOCATION LOCATION SHOWN ON PLANS IS SCHEMATIC. TRENCH IS LOCATED PER CROSS SECTION

POWER

- E ELECTRICAL ENCLOSURE
- △ ELECTRICAL TRANSFORMER
- P SECONDARY POWER BOX
- EXISTING POWER LINE — — — P — — — P —
- SECONDARY POWER LINE — — — — — — — —
- PRIMARY POWER LINE ——— • ——— • ———

- NOTES -

ALL ROAD CROSSINGS SHALL BE IN CONDUITS. SIZES OF CONDUITS WILL BE AS FOLLOWS
- -THREE PHASE POWER IN 4" CONDUIT
- -SINGLE PHASE POWER IN 3" CONDUIT
- -SECONDARY POWER IN 3" CONDUIT

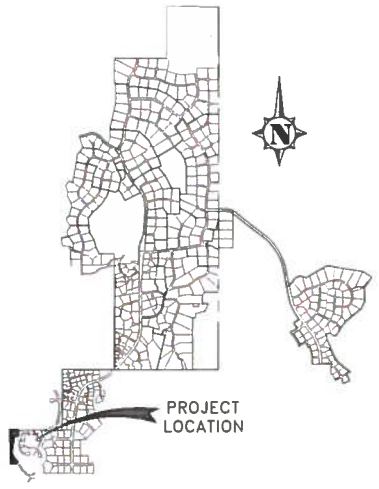
CENTURY LINK

- Ⓔ EXISTING TELEPHONE PEDESTAL
- Ⓣ TELEPHONE PEDESTAL (NUMBER INDICATES TURN-UPS)
- EXISTING TELEPHONE LINE — — — — T — — — T — —
- PROPOSED TELEPHONE LINE —— T ——— T ——

- NOTES -

1. CENTURYLINK WILL PROVIDE ALL 2" AND 4" PVC AND WILL DELIVER IT TO THE SITE. PLEASE CALL 313-1388 TO SCHEDULE DELIVERY
2. THE DEVELOPER IS RESPONSIBLE TO PLACE ALL PVC AS NOTED. IN THE DEVELOPER PROVIDED TRENCH. ALL PVC IS 2" UNLESS OTHERWISE NOTED.
3. THE DEVELOPER IS TO PROVIDE ALL STREET NAMES AND LOT ADDRESSES WITHIN TWO WEEKS OF UTILITY PLAN APPROVAL.
3. FAILURE TO COMPLY WITH THE ABOVE NOTES COULD RESULT IN DELAY OF SERVICE TO THIS PROJECT. CONTACT TELCO ENG. 673-9639 W/ QUESTIONS

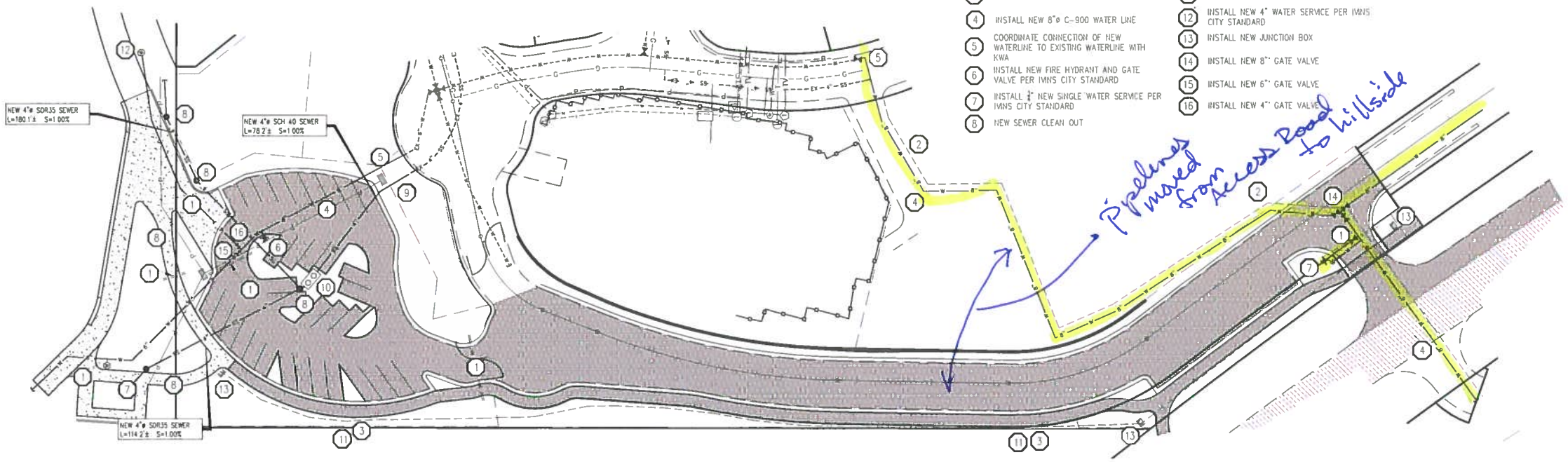
40 0 40
SCALE IN FEET

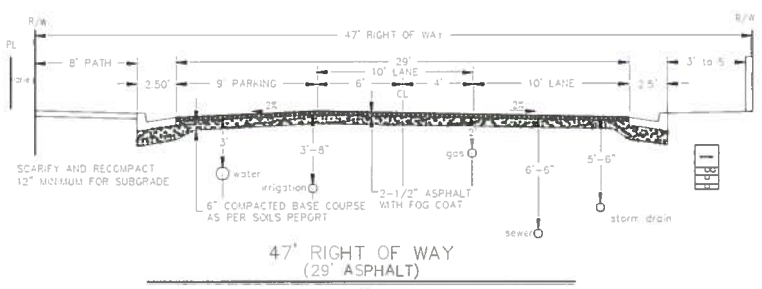


KAYENTA – VICINITY MAP
NO SCALE

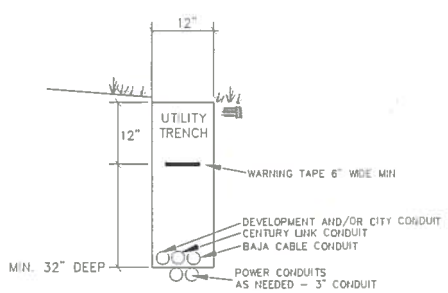
CONSTRUCTION NOTES

1. IVINS CITY CONDUIT CROSSING (1) – 4" AND (2) – 2"
2. KAYENTA DEVELOPMENT CONDUIT (2) – 2"
3. IVINS CITY CONDUIT (2) – 4" AND (2) – 2"
4. INSTALL NEW 8"ø C-900 WATER LINE
5. COORDINATE CONNECTION OF NEW WATERLINE TO EXISTING WATERLINE WITH KWA
6. INSTALL NEW FIRE HYDRANT AND GATE VALVE PER IVNS CITY STANDARD
7. INSTALL 1" NEW SINGLE WATER SERVICE PER IVNS CITY STANDARD
8. NEW SEWER CLEAN OUT
9. CONNECT TO EXISTING HDPE SEWER WITH ROMAC ALPHA COUPLER
10. INSTALL NEW SEPTIC TANK
11. 2" IRRIGATION LINE
12. INSTALL NEW 4" WATER SERVICE PER IVNS CITY STANDARD
13. INSTALL NEW JUNCTION BOX
14. INSTALL NEW 8" GATE VALVE
15. INSTALL NEW 6" GATE VALVE
16. INSTALL NEW 4" GATE VALVE

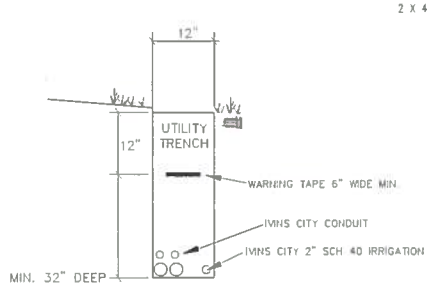




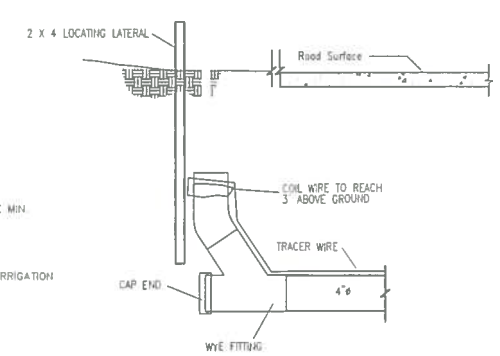
47' RIGHT OF WAY
(29' ASPHALT)
N.T.S.



JUC UTILITY TRENCH



CONDUIT TRENCH



SEWER LATERAL

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.
DIGALERT
1-800-662-4111
UNDERGROUND SERVICE (USA)

NOTICE!
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

No.	Description of Revisions	Date	By

KUMA
ENGINEERING COMPANY
469 WEST TONAPAH WAY
IVINS, UT 84738
(435) 279-0244

UTILITY PLAN
FIRE LAKE PARK

PREPARED FOR IVINS CITY
PROJECT LOCATED IN SECTION 25, T41S, R17W SLB&M
IVINS, UTAH

REGISTERED PROFESSIONAL ENGINEER
NO. 187008
04-16-2018
Brett L. Hendrickson
BRETT L. HENDRICKSON
STATE OF UTAH

Project : CMC
File : BASE.FLP
Date : APR 2018
Drafted by : BH
Review by : BH

Scale :
1 = 50

Sheet No.
UP-1



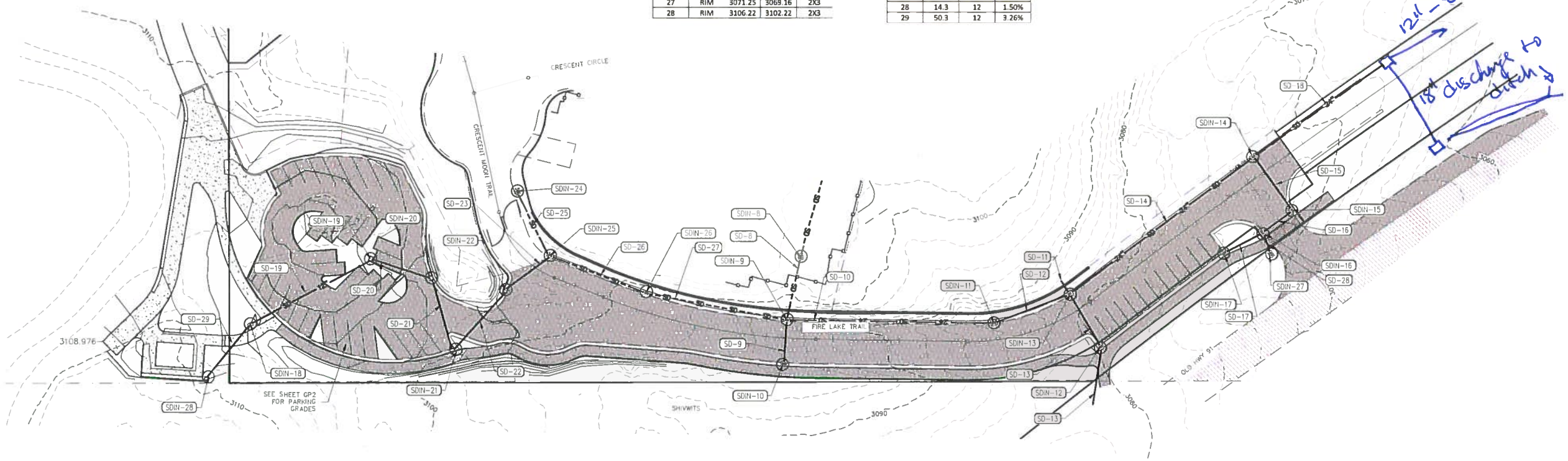
DRAINAGE NOTES
1. CONTRACTOR MAY ADJUST STORM DRAIN RIM HEIGHT TO MATCH THE EXISTING GROUND IF NEEDED. MINIMUM COVER OF 1' IS REQUIRED
2. HDPE STORM DRAIN PIPE MAY BE CURVED TO ACCOMMODATE CURVES IN THE ROAD AND TO ALLOW THE PIPE TO RUN IN THE DISTURBED RIGHT OF WAY. PLEASE SEE MANUFACTURES SPECIFICATIONS FOR MAXIMUM RADIUS AND JOINT DEFLECTION

LEGEND

EXISTING STORM DRAIN	— — SD — —
PROPOSED STORM DRAIN	———
DRAINAGE ARROW	⟹
PROPOSED INLET BOX AND PROTECTION	
EXISTING CONTOUR	— — 2940 — —
PROPOSED CONTOUR	2940

INLET		TOP	FL	SIZE
9	TBC	3096.02	3089.85	EXISITNG
10	TBC	3096.24	3090.14	2X3
11	TBC	3085.74	3080.26	3X3
12	TBC	3081.51	3075.12	4X4
13	TBC	3081.37	3076.50	4X4
14	TBC	3073.13	3067.13	3X3
15	TBC	3072.62	3068.13	2X3
16	TBC	3072.62	3068.93	2X3
17	TBC	3075.27	3068.22	2X3
18	RIM	3104.25	3100.58	2X3
19	RIM	3103.50	3099.04	2X3
20	TBC	3103.30	3098.35	2X3
21	TBC	3103.16	3097.55	2X3
22	TBC	3101.76	3096.72	2X3
24	TBC	3102.33	3097.03	EXISITNG
25	TBC	3101.41	3096.11	EXISITNG
26	TBC	3099.41	3093.71	EXISITNG
27	RIM	3071.25	3069.16	2X3
28	RIM	3106.22	3102.22	2X3

PIPE	LENGTH	SIZE	SLOPE
8	46.6	18	1.50%
9	28.8	12	1.50%
10	152.8	24	6.47%
11	57.9	24	8.88%
12	45.5	18	3.03%
13	43.4	18	3.46%
14	170.5	24	4.69%
15	50.1	12	1.50%
16	26.4	12	1.50%
17	31.6	12	1.50%
19	102.6	12	1.50%
20	45.9	12	1.50%
21	53.6	12	1.50%
22	55.4	12	1.50%
23	40.9	12	1.50%
25	49.7	12	1.50%
26	73.7	12	3.31%
27	104.6	12	3.75%
28	14.3	12	1.50%
29	50.3	12	3.26%



No.	Description of Revisions	Date	By

KUMA
ENGINEERING COMPANY
469 WEST TONAPAH WAY
IVINS, UT 84738
(435) 229-0244

GRADING PLAN
FIRE LAKE PARK

PREPARED FOR IVINS CITY
PROJECT LOCATED IN SECTION 36, T41S, R17W SLB&M
IVINS, UTAH

REGISTERED PROFESSIONAL ENGINEER
No. 8173008
02-28-2018
Brett Hendrickson
BRETT L. HENDRICKSON
STATE OF UTAH

Project :	CMC
File :	BASE-FLP
Date :	APR 2018
Drafted by :	BH
Review by :	BH

Scale : 1 = 40

Sheet No. GP-1