# CITY OF SPARKS

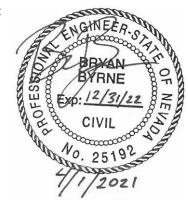
# 2021 DRAINAGE AND ROADWAY IMPROVEMENT PROJECT - G ST & SHRIVER BLVD

G ST. from 4TH ST. to 1ST ST., and SHRIVER BOULEVARD from PRATER WAY to I ST. BID #20/21-016, PWP #WA-2021-254

# April 2021

100% PLANS - FOR BIDDING PURPOSES ONLY

PREPARED & SUBMITTED BY:



BRYAN J. BYRNE, PE PROJECT ENGINEER DATE

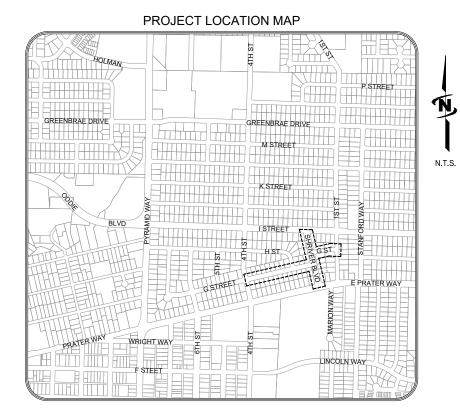


## CITY OF SPARKS OFFICIALS:

ED LAWSON DONALD ABOTT DIAN VANDERWELL PAUL ANDERSON CHARLENE BYBEE KRISTOPHER DAHIR NEIL C. KRUTZ

MAYOR
COUNCIL MEMBER WARD 1
COUNCIL MEMBER WARD 2
COUNCIL MEMBER WARD 3
COUNCIL MEMBER WARD 4
COUNCIL MEMBER WARD 5
CITY MANAGER

APPROVED BY: JON R. ERICSON, P.E., P.T.O.E. CITY ENGINEER



PROJECT No. - 49-20-051



# J-U-B ENGINEERS, INC.

9160 Double Diamond Parkway, Reno, NV 89521  $\,p$  775 852 1440  $\,w$  www.jub.com



THE LANGDON GROUP



GATEWAY MAPPING INC.

J-U-B FAMILY OF COMPANIES

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### BASIS OF BEARINGS:

NEVADA STATE PLANE COORDINATE SYSTEM, NAD 83/94, WEST ZONE, MODIFIED BY A GRID TO GROUND COMBINED SCALE FACTOR OF 1.000197939 BASED ON THE WASHOE COUNTY GPS NETWORK.

## BASIS OF ELEVATIONS (VERTICAL DATUM):

NAVD 88 BASED ON CITY OF SPARKS BENCHMARK #77 ELEVATION 4407.56.

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DRAWING:
G-001

SHEET: 1 OF

# **GENERAL NOTES**

- . ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DETAILS CONTAINED IN THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), 2012 EDITION, AND THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION (SDPWC), LATEST EDITION, AS ADOPTED BY CITY OF SPARKS, AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. ALL SPECIFICATIONS REFERENCED HEREIN REFER TO THE SSPWC UNLESS INDICATED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL, THROUGHOUT CONSTRUCTION, IN ACCORDANCE WITH APPLICABLE PARTS OF SPECIFICATION SECTION 332, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD, LATEST EDITION).
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL SAFETY DURING CONSTRUCTION, AND ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTOR SHALL FENCE AND OR BARRICADE THE CONSTRUCTION AREA AS REQUIRED TO PROTECT ADJACENT SITES, VEHICULAR TRAFFIC, AND PEDESTRIAN TRAFFIC. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618, IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES ADJACENT TO STREETS, AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.
- 5. THE CONTRACTOR SHALL PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- 6. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE CITY OF SPARKS SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL.
- THE CONTRACTOR SHALL INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND/OP EPOSION
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. ALL MATERIALS SHALL BE STORED WITHIN APPROVED CONSTRUCTION AREAS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS DUST CONTROL THROUGHOUT THE CONSTRUCTION OF ALL ITEMS SHOWN ON THESE DRAWINGS IN CONFORMITY WITH SECTION 40.030 OF WASHOE COUNTY AIR POLLUTION REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULAR CLEANING OF ALL MUD, DIRT, DEBRIS, ETC., FROM ANY AND ALL ADJACENT STREETS AND SIDEWALKS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, ALL PERMITS AS REQUIRED BY CITY OF SPARKS. THE DUST CONTROL PERMIT SHALL BE AT THE CONTRACTOR'S EXPENSE. THE ENCROACHMENT, EXCAVATION, AND LANE CLOSURE PERMITS ARE "NO FEE" PERMITS FOR CITY PROJECTS.
- 11. SPARKS MUNICIPAL CODE 20.04.005.D RESTRICTS CONSTRUCTION HOURS TO 7:00 A.M. UNTIL 7:00 P.M., MONDAY THROUGH FRIDAY AND 9:00 A.M. UNTIL 5:00 P.M. ON SATURDAY. FOR THIS PROJECT, THE DEFINED CONSTRUCTION HOURS WILL BE 7:00 A.M. UNTIL 7:00 P.M., MONDAY THROUGH FRIDAY UNLESS OTHERWISE REQUIRED BY THESE SPECIFICATIONS OR REQUESTED BY THE CITY PROJECT COORDINATOR. THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION OPERATIONS BEFORE SEVEN O'CLOCK (7:00 A.M. PACIFIC TIME) EACH WORKING DAY EXCEPT AS DIRECTED BY THE CITY COORDINATOR AND AS SPECIFIED HEREIN.

THE CONTRACTOR SHALL NOT PERFORM ANY CONTRACT WORK ON SATURDAY, SUNDAY, LEGAL HOLIDAYS, AND OUTSIDE OF THE TWELVE (12) HOURS AVAILABLE DURING A REGULAR WORKING DAY EXCEPT AS DIRECTED AND APPROVED BY THE CITY PROJECT COORDINATOR AND AS SPECIFIED HEREIN.

WHEN DIRECTED TO WORK OUTSIDE OF THE LEGALLY PERMITTED CONSTRUCTION HOURS DEFINED ABOVE, THE CONTRACTOR SHALL FIRST OBTAIN APPROVAL FROM THE CITY PROJECT COORDINATOR AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING SUCH OVERTIME WORK. IF THE CONTRACTOR PLANS TO PERFORM WORK ON SATURDAY OR SUNDAY, HE/SHE SHALL OBTAIN APPROVAL BY THE WEDNESDAY PRIOR TO WORK ON THE SATURDAY OR SUNDAY FOR WHICH WORK IS PLANNED. IF THE CONTRACTOR PLANS TO PERFORM WORK ON A LEGAL HOLIDAY, HE/SHE SHALL FIRST OBTAIN APPROVAL FOR THE CITY PROJECT COORDINATOR AT LEAST 72 HOURS IN ADVANCE.

CONTRACTOR SHALL OBTAIN APPROVAL THROUGH THE TEMPORARY USE PERMIT (T.U.P.) AND PAY A FEE OF ONE HUNDRED (\$100.00) DOLLARS TO WORK OUTSIDE OF THE ABOVE LEGALLY PERMITTED CONSTRUCTION HOURS. THE REQUEST SHALL INCLUDE JUSTIFICATION OF HOW PUBLIC SAFETY WILL BE ENHANCED THROUGH WORKING OUTSIDE OF THE RESTRICTED CONSTRUCTION HOURS. SUBMITTAL AND PAYMENT OF FEES DOES NOT GUARANTEE APPROVAL.

THE CONTRACTOR SHALL BE CHARGED FOR ALL OF CITY OF SPARKS EMPLOYEE(S) TIME SPENT OUTSIDE A STANDARD WORK DAY TO INCLUDE OVERTIME, SATURDAY, SUNDAY, OR HOLIDAY WORK, BASED ON THE EMPLOYEE'S HOURLY RATE, PLUS BENEFITS. THE CONTRACTOR WILL BE NOTIFIED OF THE COSTS INCURRED AND IF THE PAYMENT IS NOT MADE, SUCH COSTS WILL BE DEDUCTED FROM ANY PAYMENT DUE TO THE CONTRACTOR.

- 12. ALL DIMENSIONS ARE TO FRONT FACE OF CURB (LIP) UNLESS NOTED OTHERWISE
- 13. SHOULD ANY PREHISTORIC OR HISTORIC REMAINS OR ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL BE TEMPORARILY HALTED AT THE SPECIFIC SITE AND THE STATE HISTORIC PRESERVATION OFFICE OF THE DEPARTMENT OF MUSEUMS, LIBRARY AND ARTS, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO (2) WORKING DAYS FROM THE DATE OF NOTIFICATION
- A PRECONSTRUCTION CONFERENCE WILL BE HELD WITH CITY OF SPARKS PRIOR TO ANY CONSTRUCTION.
- 15. NO MATERIALS OF ANY KIND SHALL BE STOCKPILED OR CONSTRUCTION EQUIPMENT PARKED ON CONCRETE OR ASPHALT SURFACES.
- CONSTRUCTION OF STREET IMPROVEMENTS MUST ALLOW FOR THE PERPETUATION OF ALL EXISTING LEGAL ACCESSES AND EXISTING DRIVEWAYS.
- 17. THE CONTRACTOR SHALL FURNISH PRODUCT SUBMITTALS FOR IMPROVEMENTS INCLUDING MANUFACTURER'S SPECIFICATIONS, SHOP DRAWINGS, CONCRETE MIX DESIGNS, ASPHALT MIX DESIGNS, GRADATION CERTIFICATIONS, ETC. FOR REVIEW BY THE ENGINEER OF RECORD. SUBMITTALS SHALL BE FURNISHED PROMPTLY AFTER EXECUTION OF THE CONTRACT, BUT IN ALL CASES PRIOR TO DELIVERY OF SLICH MATERIALS.
- 18. THE CONTRACTOR UPON COMPLETION OF THE PROJECT, SHALL PREPARE AND SUBMIT RECORD DRAWINGS TO THE OWNER. SUBMITTAL SHALL BE IN THE FORM OF A CD OR USB DRIVE IN 300 DPI, MULTIPAGE PDF FORMAT.
- 19. THE CONTRACTOR IS REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS REQUIRED TO SUBMIT THE NOI, PAY THE ASSOCIATED FEES, AND PROVIDE A COPY OF THE NOI RECEIPT WITH THE EE PERMIT APPLICATION. BEST MANAGEMENT PRACTICES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL COMPLY AND MAINTAIN THE CONSTRUCTION. SITE INSPECTION CHECKLIST, LOCATED IN APPENDIX D OF THE TRUCKEE MEADOWS BMP HANDBOOK. THE CHECKLIST SHALL BE ONSITE FOR REVIEW BY STATE AND LOCAL GOVERNMENT INSPECTORS. THE CONTRACTOR SHALL INSPECT THE SITE DAILY; PRIOR TO FORECASTED RAIN EVENTS AND WITHIN 24 HOURS OF ANY RAIN EVENT. IF AN INSPECTOR DETERMINES THAT INSTALLED STORM WATER CONTROLS PLACE THE CITY AT RISK OF VIOLATING ITS NPDES PERMIT, THE INSPECTOR MAY ORDER A CHANGE TO THE STORM WATER CONTROLS. IF THE CHANGE IS NOT ACCEPTABLE OR IS NOT IMMEDIATELY IMPLEMENTED, A VIOLATION POSSIBLY RESULTING IN A FINE MAY BE ISSUED. THE CONTRACTOR SHALL NOT DISPOSE OR PLACE DEBRIS IN ANY CITY OF SPARKS MANHOLE. CATCH BASIN OR FACILITY.

# **ASPHALT NOTES**

- PULVERIZED MATERIAL SHALL CONFORM TO REQUIREMENTS OF THE SSPWC FOR TYPE I RECYCLED AGGREGATE BASE.
- ASPHALT CONCRETE MIX DESIGN SHOULD BE TYPE III, 50 BLOW MARSHALL MIX, WITH PG64-28NV, AND 3% AIR VOIDS.
- 3. MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- ASPHALT CONCRETE PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH SSPWC.

# **EXISTING UTILITIES**

APPROXIMATE LOCATIONS OF UTILITIES ARE SHOWN ON THE PLANS. THEY ARE TO BE USED FOR GENERAL INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN CONSTRUCTION MIGHT INTERFERE WITH NORMAL OPERATION OF ANY UTILITIES. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE APPROPRIATE UTILITY COMPANY FIELD-LOCATE ANY UTILITY INSTALLATIONS WHICH MIGHT BE AFFECTED BY CONSTRUCTION PRIOR TO BEGINNING WORK IN THAT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE OF EXISTING UTILITIES AND FOR RESTORING ANY UTILITIES DAMAGED DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. DEPTHS AND ELEVATIONS OF UTILITIES ARE UNKNOWN UNLESS OTHERWISE SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITY DEPTHS AND ELEVATIONS; ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

# **INSPECTION AND TESTING**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS TESTING INCLUDING BUT NOT LIMITED TO CONCRETE, COMPACTION AND ASPHALT & SUBGRADE. ALL TESTS SHALL MEET MINIMUM ENGINEER REQUIREMENTS. SEE THE CONTRACT DOCUMENTS AND DRAWINGS FOR FREQUENCY OF TESTING. RESULTS ARE TO BE DELIVERED TO SPECIAL INSPECTOR, OWNER AND ENGINEER.
- 2. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ENGINEER AND SPECIAL INSPECTOR FOR INSPECTIONS OF WORK AT APPROPRIATE INTERVALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ADDITIONAL INSPECTIONS THAT ARE THE RESULT OF HIS WORKMANSHIP.

# **DEMOLITION NOTES**

- THE REMOVAL OF EXISTING IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC, 2012), SECTION 301.00.
- EXISTING IMPROVEMENTS, ADJACENT PROPERTY, FENCING, WALLS, UTILITIES AND OTHER FACILITIES, TREES AND PLANTS THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM INJURY OR DAMAGE RESULTING FROM THE CONTRACTORS OPERATIONS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC, 2012), SECTIONS 301.04 AND 300.04.
- 3. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, WATER & GAS VALVE COVERS, & UTILITY BOXES AND FRAME AND COVERS, BOTH HORIZONTALLY AND VERTICALLY, AS REQUIRED TO FIT THE NEW WORK. THE CONTRACTOR SHALL REPLACE ANY APPURTENANCE DAMAGED DURING RELOCATION AT THE COST OF THE CONTRACTOR.
- ALL EXISTING FEATURES IN CONFLICT WITH PROPOSED SHALL BE REMOVED, RELOCATED AND/OR REPLACED. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER AND THE GOVERNING AGENCIES PRIOR TO SUCH REMOVAL, RELOCATION AND/OR REPLACEMENT.

# **CONTACT PHONE NUMBERS**

CONTRACTOR - ( CONSTRUCTON)

ENGINEER - (J-U-B ENGINEERS, INC.)

LONNIE J. JOHNSON, P.E. J-U-B OFFICE - RENO, NV 9160 Double Diamond Parkway Reno, NV 89521

TRANSPORTATION MANAGER - (CITY OF SPARKS)

AMBER SOSA, P.E. 431 Prater Way Sparks, NV 89431 775-353-2273 office

775-852-1440 office



CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES





J-U-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521



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2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

FILE: 49-20-051-GSHR-T
JUB PROJ. #:49-20-051
DRAWN BY: KBK
DESIGN BY: BR

DRAWN BY: KBK

DESIGN BY: BB

CHECKED BY: LJJ

ONE INCH

AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGI

DRAWING: G-002

SHEET: 2 OF 17

# LINE LEGEND

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
PROPERTY LINE		——— P/L ———
ROAD CENTERLINE		
WATER MAIN		w
WATER SERVICE		ws ws
SANITARY SEWER		ss
STORM DRAIN	sp	sp
OVERHEAD POWER		OHP
NATURAL GAS		G
NATURAL GAS SERVICE		G G
FENCE		x
WOOD FENCE		
MAJOR CONTOUR	2521	
MINOR CONTOUR		
UTILITY ABANDONED IN PLACE		
CURB & GUTTER AND SIDEWALK		========

# SYMBOL LEGEND

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL	SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
CATCH BASIN		Tunui	GAS VALVE	Ğ ⊠	
SD MANHOLE	D		POWER POLE	-	
SS MANHOLE	(\$)		STREET LIGHT	*	
FIRE HYDRANT	Q		GUY WIRE	$\leftarrow$	
WATER METER	⊞		TEST HOLE	(TH)	
WATER VALVE	×		SIGN	•	

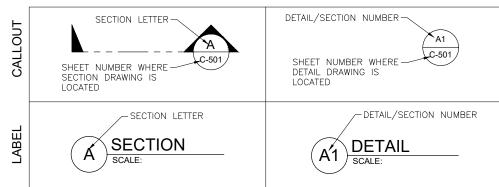
# HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 TS2 C-100 C-100
PROPOSED ASPHALT SPECIAL SECTION		TS3 C-100
PROPOSED CONCRETE DRIVEWAY		(\$-111A) C-501
PROPOSED CONCRETE REPLACEMENT SECTION	Č 7	DRIVEWAY OR C-501 C-501
PROPOSED POSSIBLE REM & REPL SECTION	Š	DRIVEWAY OR C-501 C-501

# SECTION AND DETAIL IDENTIFIERS

NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION
OF THE IDENTIFIER IF THE DETAIL DRAWING OR
SECTION VIEW IS LOCATED ON THE SAME SHEET.

### SECTION IDENTIFICATION DETAIL IDENTIFICATION



# SHEET NUMBERING

SAMPLE: C-101 DISCIPLINE DESIGNATOR
 SHEET TYPE DESIGNATOR
 SHEET SEQUENCE NUMBER - 1 01

DISCIPLINE DESIGNATORS										
DISCIPLINE	DESIGNATOR	DESCRIPTION								
	G	ALL GENERAL								
GENERAL	GI	GENERAL INFORMATION								
GENERAL	GC	GENERAL CONTRACTUAL								
	GR	GENERAL RESOURCE								
SURVEY/MAPPING	V	ALL SURVEY								
GEOTECHNICAL	В	ALL GEOTECHNICAL								
CIVIL	С	ALL CIVIL								
LANDSCAPE	L	ALL LANDSCAPE								
STRUCTURAL	S	ALL STRUCTURAL								
ARCHITECTURAL	A	ALL ARCHITECTURE								
EQUIPMENT	Q	ALL EQUIPMENT								
MECHANICAL	М	ALL MECHANICAL								
ELECTRICAL	E	ALL ELECTRICAL								
PLUMBING	Р	ALL PLUMBING								
PROCESS	D	ALL PROCESS								
RESOURCE	R	ALL RESOURCE								

SHEET TYPE DESIGNATORS								
DESIGNATOR	SHEET TYPE							
0	GENERAL (SYMBOLS, LEGENDS, NOTES, ETC.)							
1	PLANS (HORIZONTAL VIEWS)							
2	ELEVATIONS, PROFILES, COMBINED PLAN & PROFILES							
3	SECTIONS (SECTIONAL VIEWS)							
4	LARGE-SCALE VIEWS (PLANS, ELEVATIONS, ECT.)							
5	DETAILS OR COMBINED DETAILS AND SECTIONS							
6	SCHEDULES AND DIAGRAMS							
7	USER DEFINED							
8	USER DEFINED							
9	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOS)							

J-U-B ENGINEERS, INC. 9160 Double Diamond Parkway Reno, NV 89521

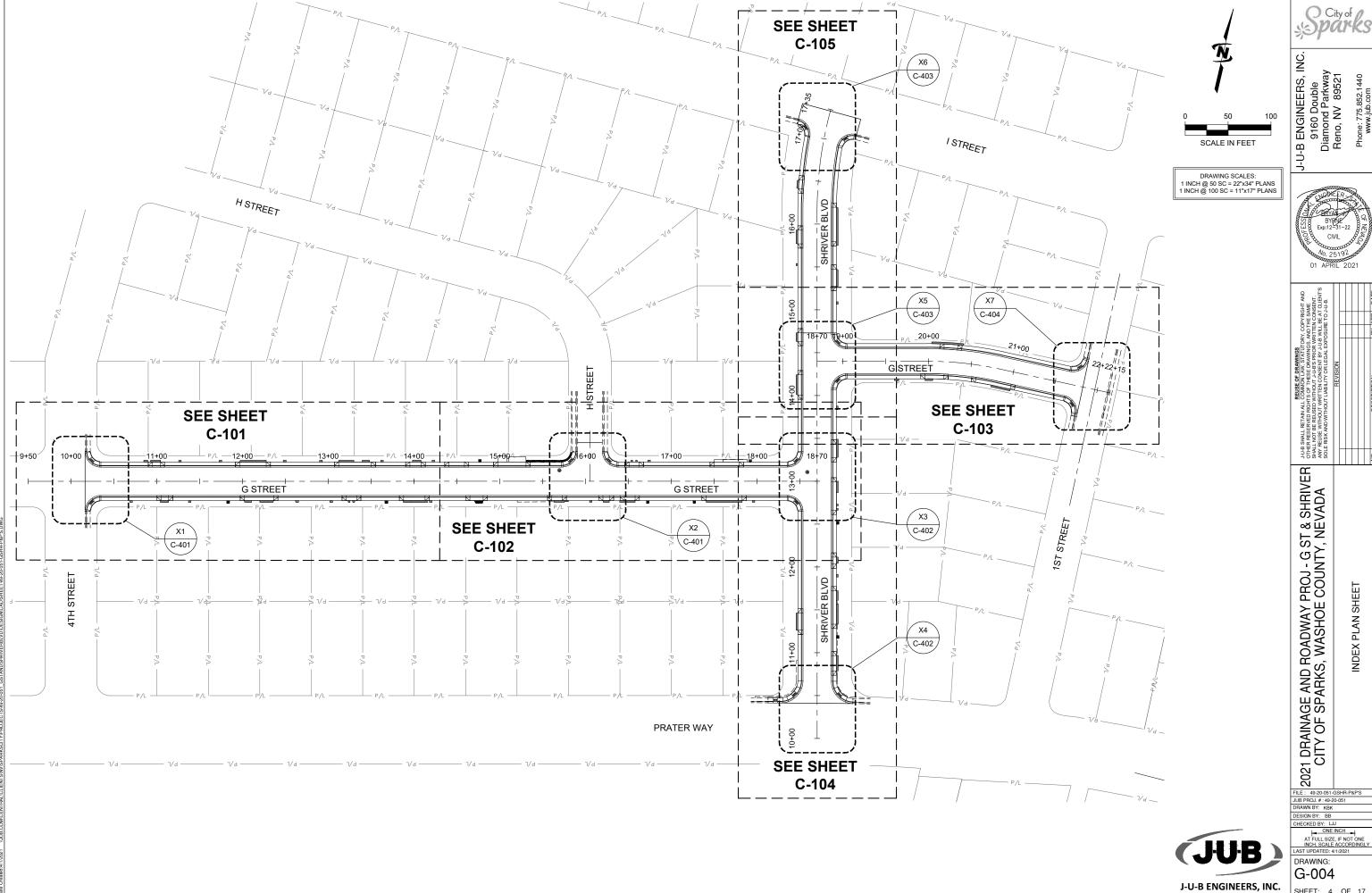


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□ F					ш

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LAST UPDATED: 4/1/2021 J-U-B ENGINEERS, INC.

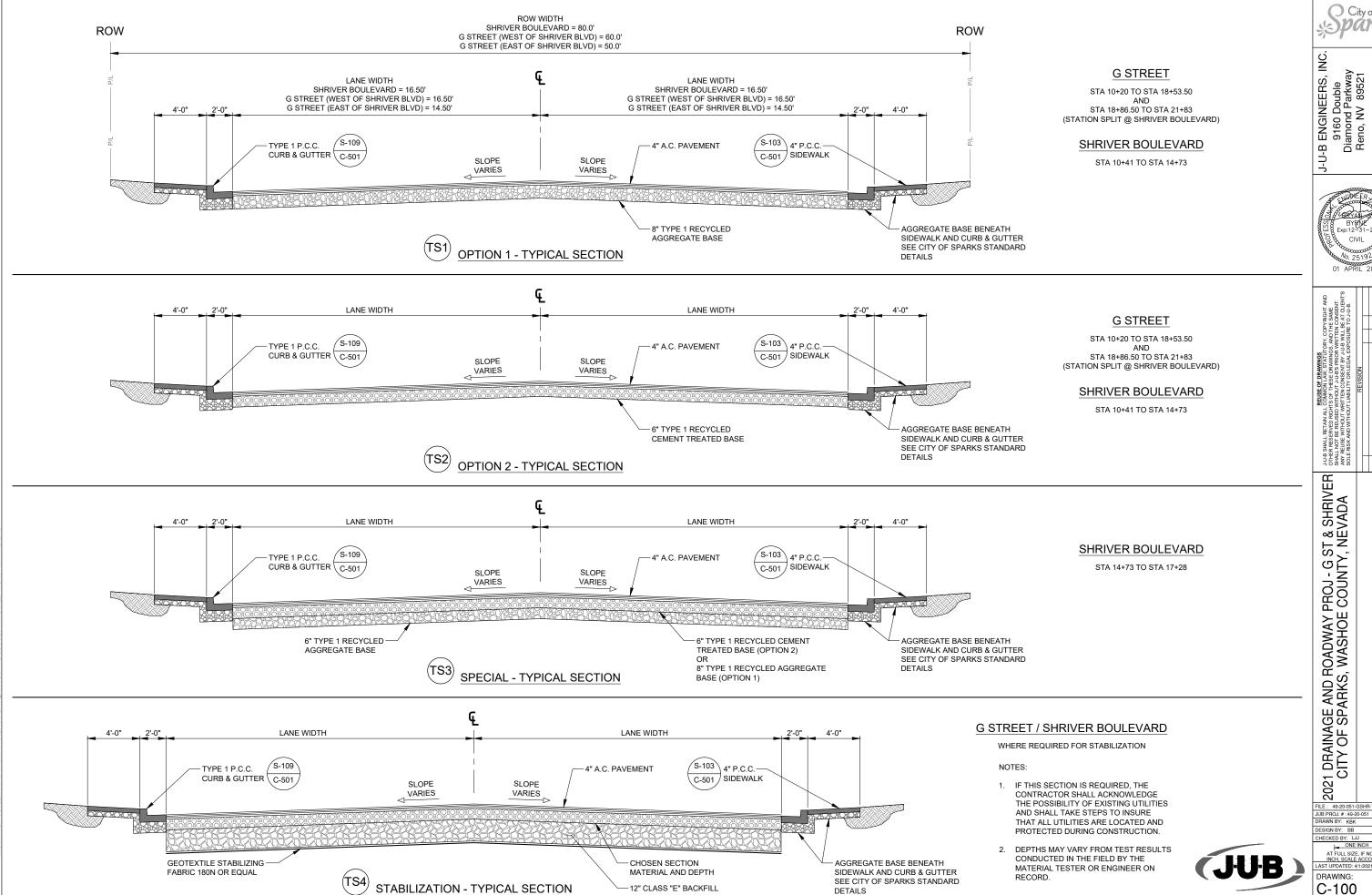
DRAWING: G-003 SHEET: 3 OF 17



City of Sparks



SHEET: 4 OF 17





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ROADWAY TYPICAL SECTIONS

DRAWN BY: KBK

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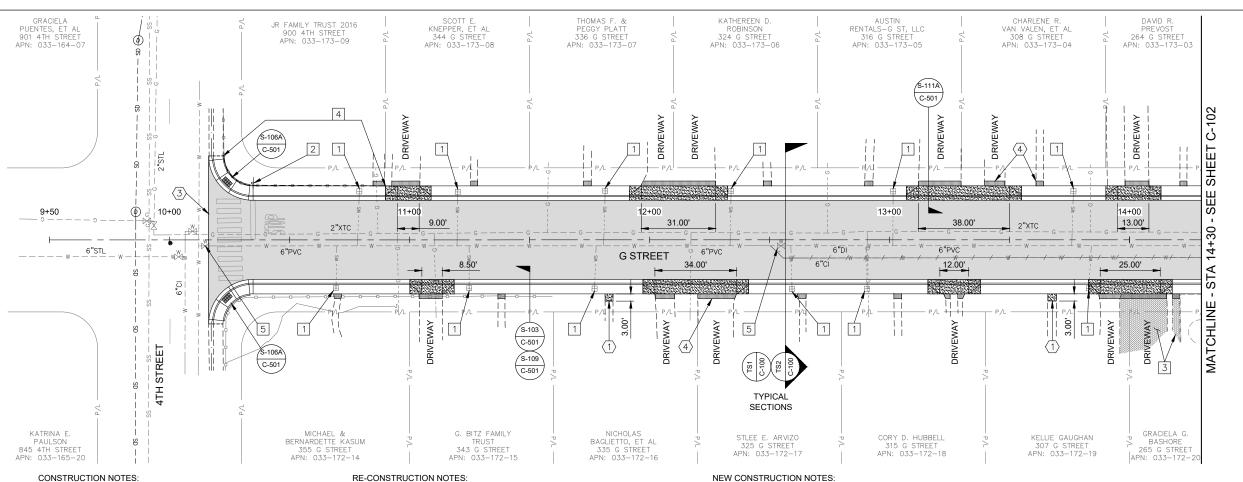
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AST UPDATED: 4/1/2021

DRAWING C-100

J-U-B ENGINEERS, INC.

SHEET: 5 OF 17



LIP OF GUTTER (RIGHT)

**EXISTING** 

4,410.85

4,410.84

4,410.73

4.410.58

4,410.50

4,410.37

4.410.28

4,410.16

4,410.04

4 409 92

4,409,79

4,410.86

4,410.76

4,410.65

4,410.50

4,410.42

4,410.27

4,410.12

4,409.98

4,409.84

4.409.70

4,409.55

OFFSET

33.05'

16.50'

16.50'

16.50

16.50

16.50

16.50

16.50'

16.50

16.50

16.50

ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS SHALL REQUIRE A TRAFFIC RATED LID AND WILL BE

LIP OF GUTTER (LEFT)

**EXISTING** 

4,410.92

4,410.85

4,410.78

4,410.62

4,410.58

4.410.54

4,410.39

4,410.21

4,410.10

4 409 93

4,409,77

**PROPOSED** 

4,410.92

4,410.79

4,410.75

4,410.60

4,410.53

4,410.44

4,410.28

4.410.10

4,409.96

4 409.81

4,409.66

OFFSET

33.05

16.50'

16.50'

16.50'

16.50

16.50

16.50

16.50

16.50

16 50'

16.50

PROTECT EXISTING SIGN IN PLACE

OFFSET

33.26'

18.50'

18.50'

18.50'

18.50'

18.50

18.50'

18.50'

18.50'

18 50'

18.50'

10+00.00

10+16.32

10+18.41

10+34.82

10+50.00

10+71.63

11+00.00

11+25.48

11+50.00

11+91.59

12+00.00

12+50.00

12+50.91

13+00.00

13+07.01

13+50.00

14+00.00

FURNISHED BY TMWA

EXISTING BRICK DRIVEWAY AND WALKWAY, SAW CUT EXISTING BRICKS TO MATCH NEW BACK OF SIDEWALK LIMITS AND PROTECT IN PLACE

4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK

ADJUST EXISTING WATER VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-503. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS

TOP BACK OF CURB (LEFT)

**EXISTING** 

4,411,19

4,411.05

4,411.03

4,410.89

4,410.84

4.410.81

4,410.50

4,410.42

4,410.27

4 410 10

4,409,94

PROPOSED

4,411.26

4,411.17

4,411.13

4,410.98

4,410.91

4,410.82

4,410.66

4.410.48

4,410.34

4 410.19

4,410.04

REMOVE AND REPLACE (3 LF) EXISTING CONCRETE WALKWAY AS REQUIRED TO MATCH ROADWAY SIDEWALK GRADES, SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT

SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE

REMOVE AND REPLACE (2 FOOT WIDE) CONCRETE TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY OR DRIVEWAY GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATION UNLESS OTHERWISE SHOWN WITH DIMENSIONS)

**DESIGN TABLE G STREET SHEET C-101** 

4.411.58

4,411.35

4,411.36

4,411.29

4.411.19

4,411.08

4,411.01

4,410.95

4,410.84

4,410.80

4.410.57

4.410.57

4,410.50

4,410.48

4,410.36

4.410.23

EXISTING

CROWN

**PROPOSED** 

4,411.35

4,411.20

4,411.16

4,411.10

4,411.02

4,410.94

4,410.86

4,410.71

4,410.69

4,410.53

4.410.52

4,410.37

4,410.35

4.410.22

4,410.08

### NEW CONSTRUCTION NOTES:

CONCRETE SIDEWALK, SEE DETAIL C-501

TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL C-501

/S-111A P.C.C. DRIVEWAY APRON, SEE DETAIL C-501

PEDESTRIAN RAMP, SEE DETAIL

TOP BACK OF CURB (RIGHT)

**EXISTING** 

4,411.14

4,411.17

4,411.06

4,410.91

4,410.84

4,410.68

4.410.47

4,410.32

4,410.14

4.410.05

4,409.91

4,411.24

4,411.14

4,411.03

4,410.88

4,410.80

4,410.65

4,410.50

4,410.36

4,410.22

4,410.08

4,409.93

OFFSET

33.26'

18.50'

18.50'

18.50

18.50'

18.50'

18.50

18.50'

18.50'

18 50'

18.50

# HATCH I ECENID

	HATCH LE	EGEND
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 TS2 C-100 C-100
PROPOSED ASPHALT SPECIAL SECTION		TS3 C-100
PROPOSED CONCRETE DRIVEWAY OR PROPOSED CONCRETE REPLACEMENT SECTION	3.0'	DRIVEWAY OR C-501 C-501
PROPOSED POSSIBLE REM & REPL SECTION	2.0,	DRIVEWAY OR WALKWAY S-103 S-111A C-501 C-501

SEE INTERSECTION LAYOUTS FOR STRIPING NOTES, SEE SHEETS C-401 TO C-404.

DRAWN BY: KBK DESIGN BY: BB HECKED BY: L

ONE INCH

AT FULL SIZE, IF NOT ONI AST UPDATED: 4/1/2021 DRAWING C-101

SHEET: 6 OF 17

City of

J-U-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521

J-U-B SHALL RETAIN ALL C OTHER RESERVED RIGHT: SHALL NOT BE REUSED W ANY REUSE WITHOUT WRI SOLE RISK AND WITHOUT

2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

PLAN 14+30

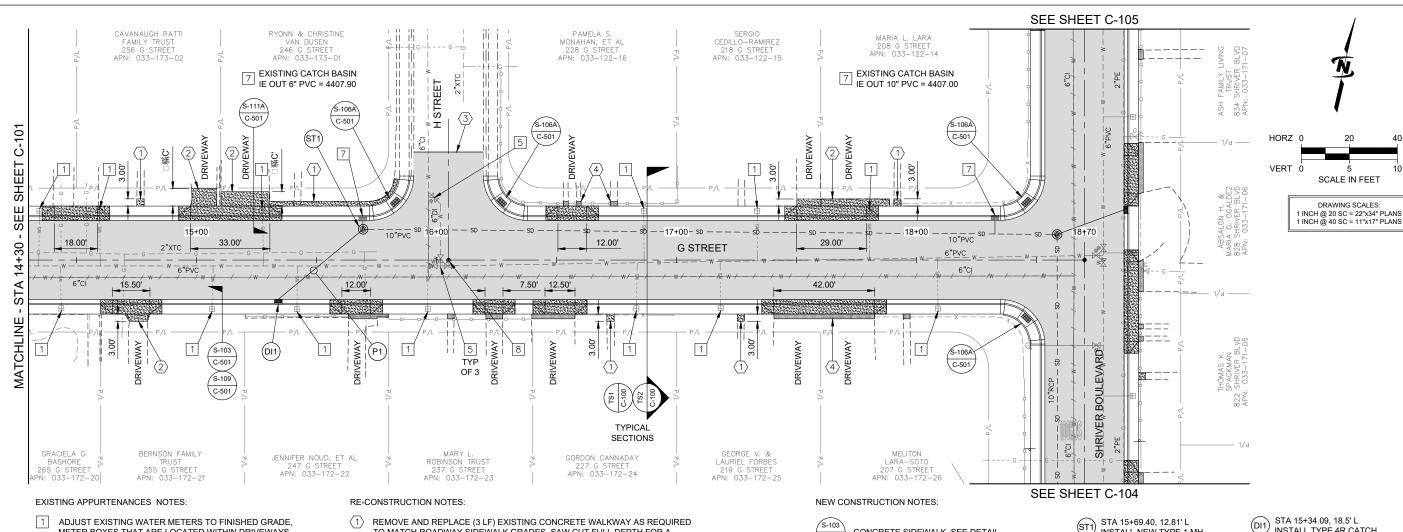
G STREET (WEST) STA 10+00 TO STA

HOR7

SCALE IN FEET

DRAWING SCALES: 1 INCH @ 20 SC = 22"x34" PLANS 1 INCH @ 40 SC = 11"x17" PLANS

J-U-B ENGINEERS, INC.



- ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS SHALL REQUIRE A TRAFFIC RATED LID AND WILL BE FURNISHED BY TMWA
- 5 ADJUST EXISTING WATER VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-503. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- REMOVE AND REPLACE EXISTING CATCH BASIN, FRAME AND GRATE WITH NEW TYPE 4-R CATCH BASIN, SEE DETAIL S-204A & B, SHEET C-502
- REMOVE AND RESET ROADWAY MONUMENT, SEE DETAIL S-118, SHEET C-502

- REMOVE AND REPLACE (3 LF) EXISTING CONCRETE WALKWAY AS REQUIRED TO MATCH ROADWAY SIDEWALK GRADES, SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- (2) REMOVE AND REPLACE (3 LF) EXISTING CONCRETE DRIVEWAY AS REQUIRED TO MATCH ROADWAY SIDEWALK GRADES, SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- 4 REMOVE AND REPLACE (2 FOOT WIDE) CONCRETE TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY OR DRIVEWAY GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATION UNLESS OTHERWISE SHOWN WITH DIMENSIONS)

CONCRETE SIDEWALK, SEE DETAIL

TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL C-501

P.C.C. DRIVEWAY APRON, SEE DETAIL

PEDESTRIAN RAMP, SEE DETAIL

ST1 STA 15+69.40, 12.81' L INSTALL NEW TYPE 1 MH RIM (E) = 4409.57 RIM (P) = 4409.30 IE IN 6" (N) = 4407.60 IE OUT 10" (E) = 4407.40 NEW IE IN 10" (SW) = 4407.60

SEE DETAIL S-206A, SHEET C-503

PIPE SLOPE = 0.50%

DI1 STA 15+34.09, 18.5' L INSTALL TYPE 4R CATCH BASIN, FRAME & GRATE TBC = 4409.54 FL = 4409.04 GRATE = 4408.81 IE OUT (10") = 4407.82 (C-502) PIPE SLOPE = 0.50%

45.8 LF - 10" C900 PVC PIPE SLOPE = 0.50% REFERENCE DETAIL S-117, SHEET C-502 BACKFILL SHALL INCLUDE 200 PSI EXCAVATABLE SLURRY BACKFILL

SEE INTERSECTION LAYOUTS OR STRIPING NOTES, SEE HEETS C-401 TO C-404.

# HATCH LEGEND

	ПАТ	CH LEGENL	<u>)</u>
HATCH DESCRIPTION	N	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION			TS1 TS2 C-100 C-100
PROPOSED ASPHALT SPECIAL SECTION			TS3 C-100
PROPOSED CONCRETE DRIVEWAY		3.0'	DRIVEWAY OR WALKWAY S-103 S-111A C-501 C-501
PROPOSED POSSIBLE REM & REPL SECTION		2.0,	DRIVEWAY OR WALKWAY

						DESIGN TAB	LE G STREET	SHEET C-102						
	TOP E	ACK OF CURB	(LEFT)	LIP	OF GUTTER (L	EFT)	CROWN LIP OF GUTTER (RIGHT)			GHT)	TOP BACK OF CURB (RIGHT)			
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED
14+50.00	18.50'	4,409.80	4,409.90	16.50'	4,409.57	4,409.52	4,410.11	4,409.94	16.50'	4,409.69	4,409.40	18.50'	4,409.86	4,409.78
14+65.08							4,410.05	4,409.90						
15+00.00	18.50'	4,409.73	4,409.75	16.50'	4,409.52	4,409.37	4,409.95	4,409.85	16.50'	4,409.60	4,409.26	18.50'	4,409.72	4,409.64
15+34.09							4,409.86	4,409.80	16.50'	4,409.54	4,409.16	18.50'	4,409.68	4,409.54
15+50.00	18.50'	4,409.57	4,409.61	16.50'	4,409.34	4,409.23	4,409.85	4,409.78	16.50'	4,409.51	4,409.32	18.50'	4,409.65	4,409.70
15+55.59									16.50'	4,409.50	4,409.38	18.50'	4,409.64	4,409.76
15+67.00	18.50'	4,409.51	4,409.56	16.50'	4,409.27	4,409.18								
15+72.00	18.50'	4,409.52	4,409.56	16.50'	4,409.24	4,409.18	4,409.84	4,409.75						
15+88.41	33.26'	4,409.58	4,409.70	33.05'	4,409.45	4,409.32								
16+00.00							4,409.83	4,409.67	16.50'	4,409.39	4,409.25	18.50'	4,409.48	4,409.63
16+05.00							4,409.80	4,409.66						
16+21.59	33.26'	4,409.51	4,409.65	33.05'	4,409.42	4,409.27								
16+38.00	18.50'	4,409.40	4,409.56	16.50'	4,409.26	4,409.18	4,409.67	4,409.56						
16+50.00	18.50'	4,409.39	4,409.51	16.50'	4,409.16	4,409.13	4,409.63	4,409.53	16.50'	4,409.18	4,409.11	18.50'	4,409.33	4,409.49
17+00.00	18.50'	4,409.24	4,409.32	16.50'	4,409.00	4,408.94	4,409.53	4,409.38	16.50'	4,409.03	4,408.96	18.50'	4,409.28	4,409.34
17+50.00	18.50'	4,409.10	4,409.13	16.50'	4,408.89	4,408.75	4,409.39	4,409.23	16.50'	4,408.92	4,408.81	18.50'	4,409.08	4,409.19
18+00.00	18.50'	4,408.95	4,408.94	16.50'	4,408.74	4,408.56	4,409.25	4,409.08	16.50'	4,408.78	4,408.67	18.50'	4,408.81	4,409.05
18+31.00	18.50'	4,408.71	4,408.82	16.50'	4,408.53	4,408.44								
18+35.00	18.50'	4,408.71	4,408.82	16.50'	4,408.55	4,408.44	4,409.23	4,408.98	16.50'	4,408.75	4,408.57	18.50'	4,408.96	4,408.95
18+50.00							4,409.12	4,408.95						
18+53.50							4,409.13	4,409.14						
18+70.00							4,409.34	4,409.28						



City of

J-U-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521



Æ	JUJB SHALL RETAIN ALL COMMON LAW STATUTORY COPY RIGHT AND OTHER RESERVED RIGHTS OF THESE DRAWNINGS, AND THE SAME OWN, MAY BE ERICINST WITHOUT ALL BES DRING WENTER A CAMERAT
	STALLY METADOLE MITTOOLOGES THAN MILL BE AT CHRISTS SOLE RISK AND WITHOUT WRITTEN CONSENT BY JUB WILL BE AT CHRISTS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B.
	REVISION

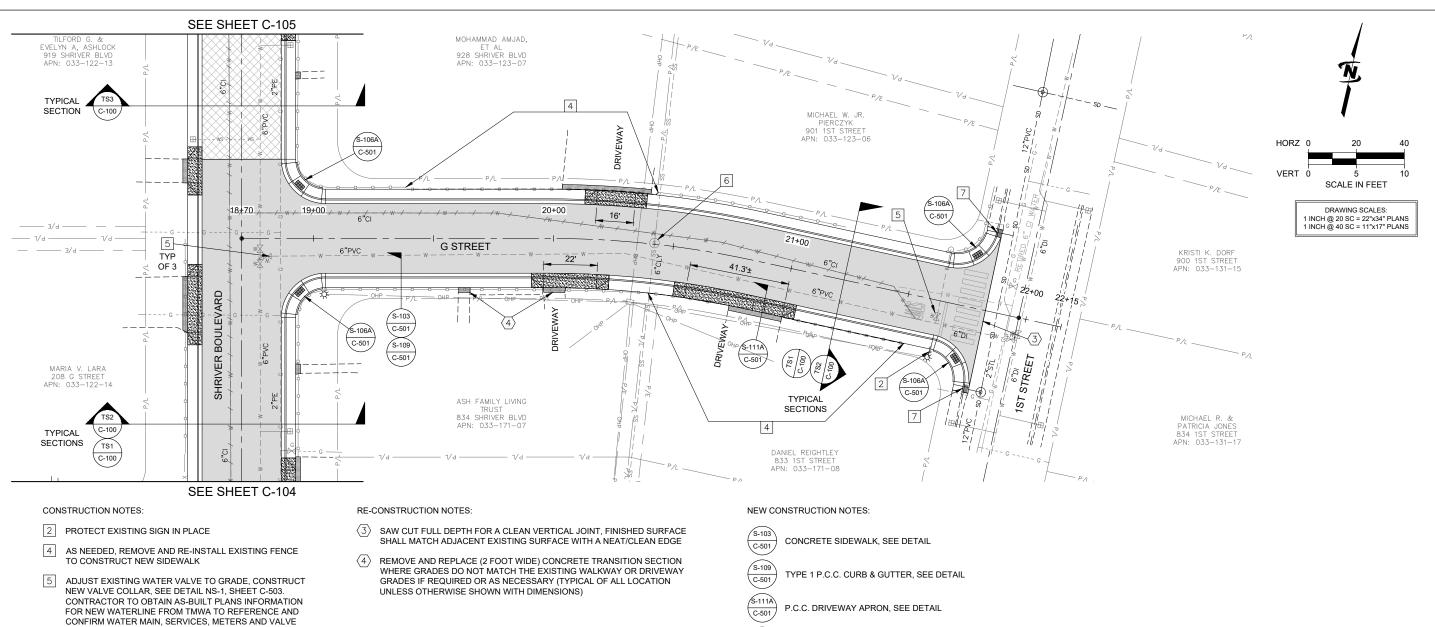
2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIV CITY OF SPARKS, WASHOE COUNTY, NEVADA G STREET (WEST) PLAN STA 14+30 TO STA 18+70

DRAWN BY: KBK DESIGN BY: BB CHECKED BY: LJJ

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH, SCALE ACCORDINGI

AST UPDATED: 4/1/2021 DRAWING

C-102 SHEET: 7 OF 17



PEDESTRIAN RAMP, SEE DETAIL

						DESIGN TAE	LE G STREET	SHEET C-103						
	TOP BACK OF CURB (LEFT) LIP OF GUTTER (LEFT)						CRO	NWC	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED
18+70.00							4,409.78	4,409.44						
18+86.50							4,409.50	4,409.42						
19+00.00							4,409.46	4,409.41						
19+05.00	16.50'	4,409.40	4,409.38	14.50'	4,409.12	4,409.00	4,409.45	4,409.40	14.50'	4,409.16	4,409.04	16.50'	4,409.35	4,409.42
19+50.00	16.50'	4,407.17	4,409.12	14.50'	4,408.90	4,408.74	4,409.23	4,409.13	14.50'	4,408.91	4,408.77	16.50'	4,409.12	4,409.15
19+90.77							4,409.04	4,408.88	14.50'	4,408.66	4,408.52	16.50'	4,408.90	4,408.90
20+00.00	16.50'	4,408.87	4,408.84	14.50'	4,408.55	4,408.46	4,409.00	4,408.84	14.50'	4,408.63	4,408.48	16.50'	4,408.85	4,408.86
20+37.22	16.50'	4,408.64	4,408.62	14.50'	4,408.30	4,408.24								
20+50.00	16.50'	4,408.57	4,408.56	14.50'	4,408.24	4,408.18	4,408.76	4,408.59	14.50'	4,408.44	4,408.23	16.50'	4,408.59	4,408.61
21+00.00	16.50'	4,408.34	4,408.34	14.50'	4,408.06	4,407.96	4,408.49	4,408.35	14.50'	4,408.25	4,407.99	16.50'	4,408.28	4,408.37
21+05.43							4,408.45	4,408.32	14.50'	4,408.19	4,407.96	16.50'	4,408.20	4,408.34
21+50.00	16.50'	4,408.07	4,408.13	14.50'	4,407.82	4,407.75	4,408.15	4,408.14	14.50'	4,407.79	4,407.78	16.50'	4,408.05	4,408.16
21+63.83							4,408.08	4,408.08	14.50'	4,407.73	4,407.72	16.50'	4,408.00	4,408.10
21+63.97	16.50'	4,408.03	4,408.07	14.50'	4,407.77	4,407.69								
21+80.23									30.95'	4,407.50	4,407.50	31.20'	4,407.79	4,407.76
21+80.37	31.20'	4,407.85	4,407.95	30.95'	4,407.64	4,407.64								
21+82.77							4,407.98	4,407.98						

HATCH LEGEND											
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL									
PROPOSED ASPHALT TYPICAL SECTION		TS1 TS2 C-100 C-100									
PROPOSED ASPHALT SPECIAL SECTION		TS3 C-100									
PROPOSED CONCRETE DRIVEWAY OR PROPOSED CONCRETE REPLACEMENT SECTION	.000	DRIVEWAY OR (C-501) (C-501)									
PROPOSED POSSIBLE REM & REPL SECTION	20.0										

SEE INTERSECTION LAYOUTS FOR STRIPING NOTES, SEE SHEETS C-401 TO C-404.

J-U-B ENGINEERS, INC.

DRAWN BY: KBK DESIGN BY: BB AST UPDATED: 4/1/2021 DRAWING

C-103

SHEET: 8 OF 17

6 ADJUST EXISTING MANHOLE RIM TO GRADE, CONSTRUCT

NEW P.C.C. COLLAR, SEE DETAIL S-210A, SHEET C-503 7 PROTECT IN PLACE EXISTING INLET FRAME AND GRATE

City of

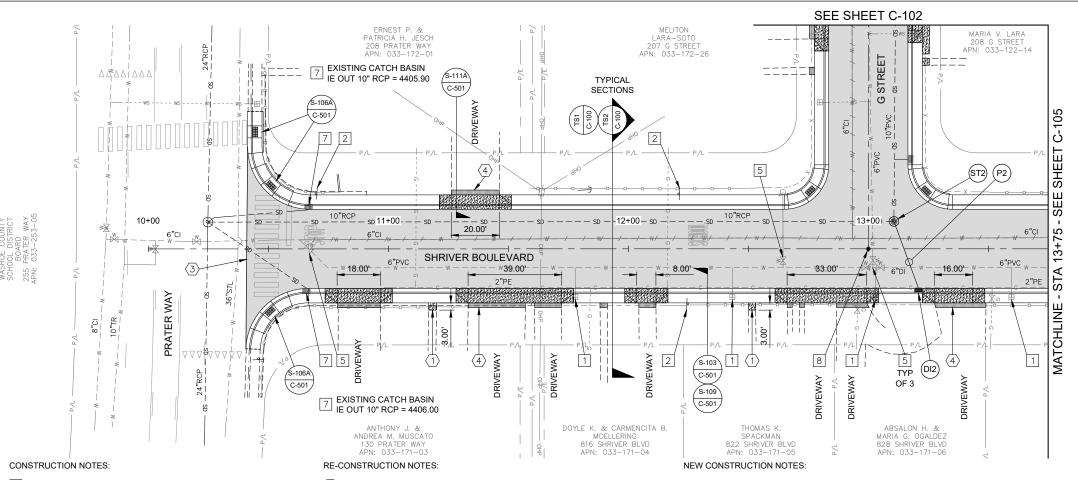
J-U-B ENGINEERS, INC. 9160 Double Diamond Parkway Reno, NV 89521

J-U-B SHALL RETAIN ALL C OTHER RESERVED RIGHT: SHALL NOT BE REUSED W ANY REUSE WITHOUT WRI SOLE RISK AND WITHOUT 2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

G STREET (EAST) PLAN STA 18+70 TO STA 21+97

CHECKED BY: LJJ

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH, SCALE ACCORDINGI



1 ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS SHALL REQUIRE A TRAFFIC RATED LID AND WILL BE

2 PROTECT EXISTING SIGN IN PLACE

13+35.00

ADJUST EXISTING WATER VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-503. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS

REMOVE AND REPLACE EXISTING CATCH BASIN, FRAME AND GRATE WITH NEW TYPE 4-R CATCH BASIN. SEE DETAIL S-204A & B, SHEET C-502

8 REMOVE AND RESET ROADWAY MONUMENT, SEE DETAIL S-118, SHEET C-502

- REMOVE AND REPLACE (3 LF) EXISTING CONCRETE WALKWAY AS REQUIRED TO MATCH ROADWAY SIDEWALK GRADES, SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- REMOVE AND REPLACE (2 FOOT WIDE) CONCRETE TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY OR DRIVEWAY GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATION UNLESS OTHERWISE SHOWN WITH DIMENSIONS)

CONCRETE SIDEWALK, SEE DETAIL C-501

TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL C-501

P.C.C. DRIVEWAY APRON, SEE DETAIL C-501

PEDESTRIAN RAMP, SEE DETAIL

ST2) STA 13+10.65, 11.42' L INSTALL NEW TYPE 1 MH RIM (E) = 4409.17 RIM (P) = 4409.04 IE IN 10" (W) = 4406.70 IE OUT 10" (S) = 4406.70 NEW IE IN 10" (NE) = 4406.80 PIPE SLOPE = 0.50% SEE DETAIL, S-206A, SHEET C-503

DI2 STA 13+20.90, 18.5' R INSTALL TYPE 4R CATCH BASIN, FRAME & GRATE TBC = 4409.05 FL = 4408.55 GRATE = 4408.32 GRATE = 4400.32 IE OUT 10" (SW) = 4406.94 (C-502) PIPE SLOPE = 0.50%

29.6 LF - 10" SDR-35 PVC PIPE SLOPE = 0.50% REFERENCE DETAIL S-117, SHEET C-502 BACKFILL SHALL INCLUDE 200 PSI EXCAVATABLE SLURRY BACKFILL

# HATCH I EGEND

<u> </u>												
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL										
PROPOSED ASPHALT TYPICAL SECTION		TS1 TS2 C-100 C-100										
PROPOSED ASPHALT SPECIAL SECTION		TS3 C-100										
PROPOSED CONCRETE DRIVEWAY OR PROPOSED CONCRETE REPLACEMENT SECTION	3 0.	DRIVEWAY OR WALKWAY S-103 S-111A C-501 C-501										
PROPOSED POSSIBLE REM & REPL SECTION	0,	DRIVEWAY OR WALKWAY C-501 C-501										

NOTE: SEE INTERSECTION LAYOUTS FOR STRIPING NOTES, SEE SHEETS C-401 TO C-404.

DRAWN BY: KBK DESIGN BY: BB CHECKED BY: LJJ

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH, SCALE ACCORDINGI DRAWING

C-104

J-U-B ENGINEERS, INC. SHEET: 9 OF 17

						DESIGN TABLE	SHRIVER STR	EET SHEET C-10	)4					
	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			CROWN		LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (		(RIGHT)
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED
10+00.00														
10+41.83							4,408.83	4,408.83						
10+44.35									32.92'	4,408.42	4,408.34	33.66'	4,408.59	4,408.72
10+44.95	34.04'	4,408.28	4,408.69	33.33'	4,408.35	4,408.31								
10+50.00							4,408.73	4,408.73						
10+64.50									16.60'	4,408.42	4,408.14	18.60'	4,408.55	4,408.52
10+65.56	18.57'	4,408.35	4,408.38	16.58'	4,408.24	4,408.00								
10+66.66							4,408.65	4,408.55	16.50'	4,408.43	4,408.14	18.50'	4,408.54	4,408.52
10+67.40	18.50'	4,408.47	4,408.38	16.50'	4,408.24	4,408.00	4,408.64	4,408.55						
11+00.00	18.50'	4,408.58	4,408.46	16.50'	4,408.36	4,408.08	4,408.77	4,408.64	16.50'	4,408.40	4,408.23	18.50'	4,408.68	4,408.61
11+50.00	18.50'	4,408.63	4,408.58	16.50'	4,408.43	4,408.20	4,408.88	4,408.76	16.50'	4,408.48	4,408.35	18.50'	4,408.76	4,408.73
11+77.25							4,408.98	4,408.83	16.50'	4,408.58	4,408.42	18.50'	4,408.83	4,408.80
12+00.00	18.50'	4,408.66	4,408.71	16.50'	4,408.46	4,408.33	4,409.03	4,408.90	16.50'	4,408.59	4,408.49	18.50'	4,408.82	4,408.87
12+50.00	18.50'	4,408.79	4,408.83	16.50'	4,408.57	4,408.45	4,409.20	4,409.05	16.50'	4,408.71	4,408.63	18.50'	4,408.92	4,409.01
12+65.00	18.50'	4,408.80	4,408.87	16.50'	4,408.61	4,408.49	4,409.25	4,409.09						
13+00.00							4,409.34	4,409.28	16.50'	4,408.86	4,408.78	18.50'	4,409.07	4,409.16
13+04.18												18.50'	4,409.08	4,409.18
13+20.90					1		4,409.35	4,409.23	16.50'	4,408.92	4,408.67	18.50'	4,409.08	4,409.05
		+	+		+	+	,	+		,			· /	+

4.409.37

4,409.42

4,409.20

HORZ 0 VERT SCALE IN FEET

> DRAWING SCALES: 1 INCH @ 20 SC = 22"x34" PLANS 1 INCH @ 40 SC = 11"x17" PLANS

J-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521

J-U-B

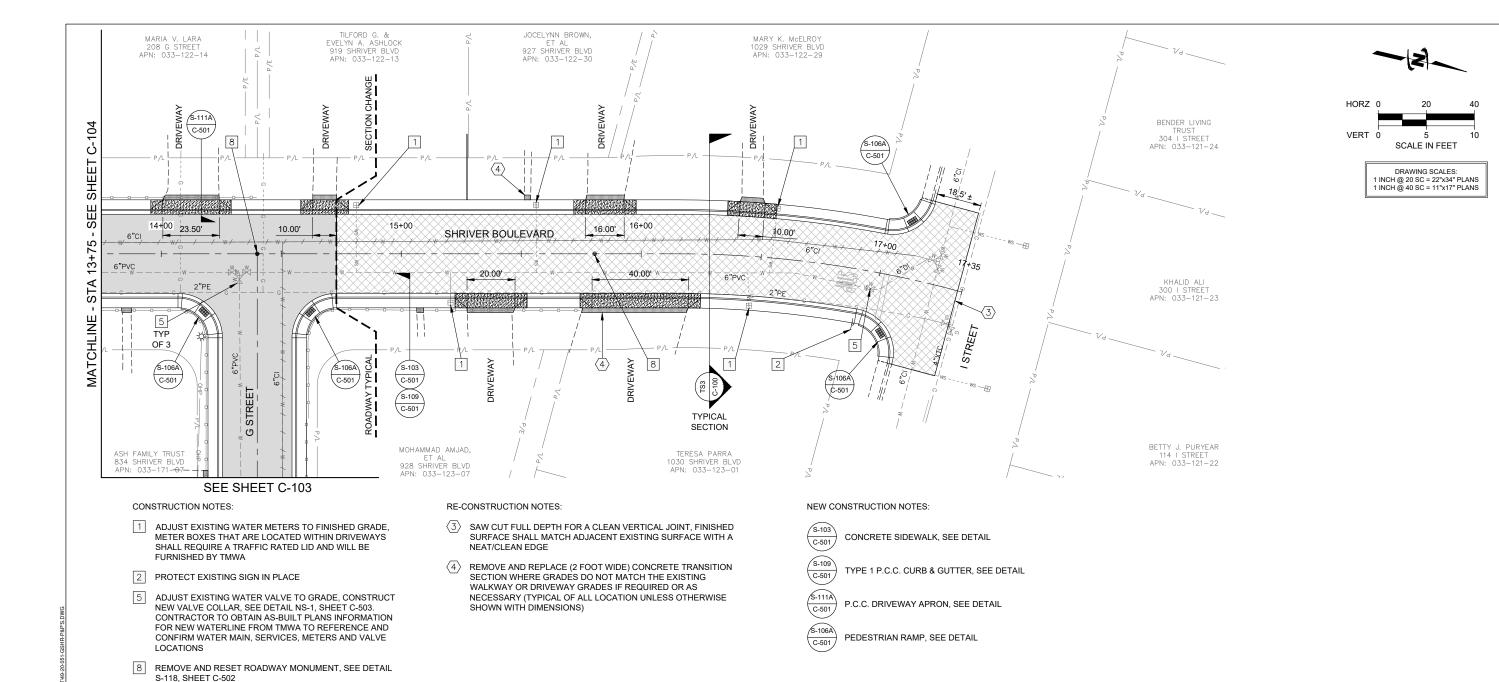
City of

J-U-B SHALL RETAIN A OTHER RESERVED RI SHALL NOT BE REUSE ANY REUSE WITHOUT SOLE RISK AND WITH

2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

SHRIVER BOULEVARD PLAN STA 10+25 TO STA 13+75

AST UPDATED: 4/1/2021



DESIGN TABLE SHRIVER STREET SHEET C-105														
	TOP E	BACK OF CURB	(LEFT)	LIP OF GUTTER (LEFT)		CROWN		LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGH)		(RIGHT)	
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED
14+00.00	18.50'	4,409.16	4,409.18	16.50'	4,408.96	4,408.80	4,409.59	4,409.32	16.50'	4,409.07	4,408.90	18.50'	4,409.20	4,409.28
14+00.68	18.50'	4,409.16	4,409.18	16.50'	4,408.96	4,408.80								
14+07.00							4,409.59	4,409.33	16.50'	4,409.03	4,408.92	18.50'	4,409.22	4,409.30
14+40.00							4,409.78	4,409.44						
14+50.00	18.50'	4,409.41	4,409.37	16.50'	4,409.17	4,408.99	4,409.79	4,409.47						
14+73.00							4,409.80	4,409.54	16.50'	4,409.35	4,409.13	18.50'	4,409.52	4,409.51
15+00.00	18.50'	4,409.60	4,409.55	16.50'	4,409.38	4,409.17	4,409.87	4,409.63	16.50'	4,409.38	4,409.22	18.50'	4,409.65	4,409.60
15+50.00	18.50'	4,409.75	4,409.75	16.50'	4,409.50	4,409.37	4,409.93	4,409.79	16.50'	4,409.53	4,409.38	18.50'	4,409.79	4,409.76
15+97.91	18.50'	4,409.84	4,409.93	16.50'	4,409.66	4,409.55	4,410.07	4,409.95						
16+00.00	18.50'	4,409.84	4,409.94	16.50'	4,409.66	4,408.56	4,410.07	4,409.95	16.50'	4,409.71	4,409.54	18.50'	4,409.75	4,409.92
16+50.00	18.50'	4,409.84	4,410.09	16.50'	4,409.71	4,409.71	4,410.25	4,410.11	16.50'	4,409.79	4,409.69	18.50'	4,409.93	4,410.07
16+93.06							4,410.34	4,410.32	16.50'	4,409.87	4,409.82	18.50'	4,410.12	4,410.20
16+98.94	18.50'	4,410.14	4,410.24	16.50'	4,409.90	4,409.86								
17+00.00							4,410.37	4,410.39	•			•		
17+10.86									33.48'	4,409.97	4,409.94	33.68'	4,410.19	4,410.32
17+14.16	32.91'	4,410.16	4,410.33	32.69'	4,409.99	4,409.95								
17+14.69							4,410.54	4,410.54						

# HATCH LEGEND

HATCH LEGEND												
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL										
PROPOSED ASPHALT TYPICAL SECTION		TS1 TS2 C-100 C-100										
PROPOSED ASPHALT SPECIAL SECTION		TS3 C-100										
PROPOSED CONCRETE DRIVEWAY OR PROPOSED CONCRETE REPLACEMENT SECTION	30.	DRIVEWAY OR (S-103 (S-111A) (C-501) (C-501)										
PROPOSED POSSIBLE REM & REPL SECTION	.0.2	DRIVEWAY OR (C-501) C-501										

SEE INTERSECTION LAYOUTS FOR STRIPING NOTES, SEE SHEETS C-401 TO C-404.

J-U-B ENGINEERS, INC.

2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA DRAWN BY: KBK DESIGN BY: BB DRAWING

AST UPDATED: 4/1/2021 C-105

SHEET: 10 OF 17

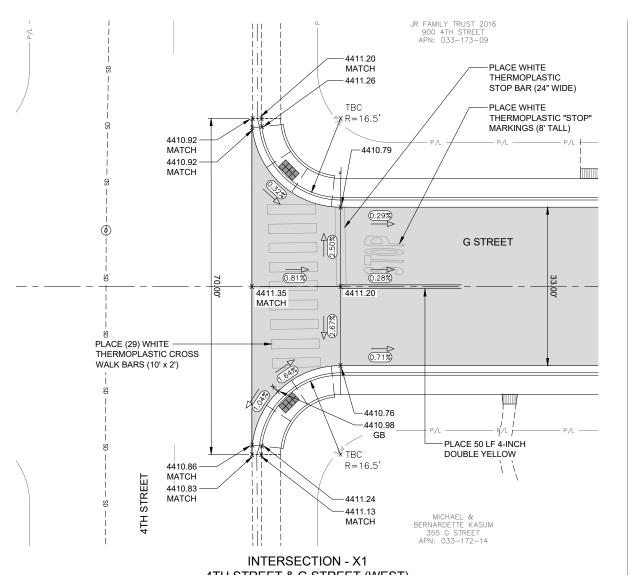
City of

J-B ENGINEERS, INC. 9160 Double Diamond Parkway Reno, NV 89521

J-U-B

F JU-B SHALL RETAIN ALL C OTHER RESERVED RIGHT: SHALL NOT BE REUSED W ANY REUSE WITHOUT WRI SOLE RISK AND WITHOUT

SHRIVER BOULEVARD PLAN STA 13+75 TO STA 17+33.90



# 4TH STREET & G STREET (WEST)

## **GRADING & DRAINAGE LEGEND**



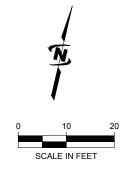
C-503

PROPOSED LONGITUDINAL GRADE SLOPES

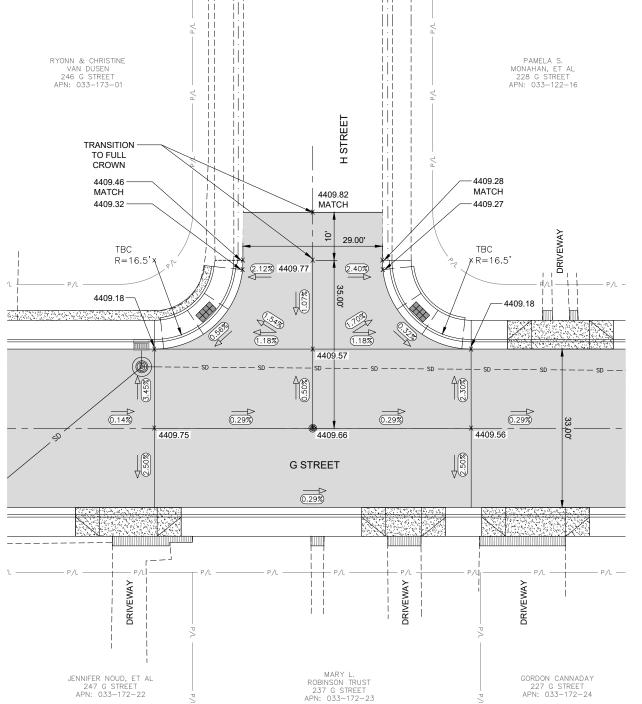
GRADE BREAK LOCATION

### STRIPING NOTES:

- 1. ALL LONGITUDINAL LINES SHALL BE PAINTED WITH (2) COATS OF NDOT TYPE II PAINT OR APPROVED EQUAL.
- 2. PREFORMED THERMOPLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH SECTION 634 OF THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION (NDOT), EXCEPT ALL THERMOPLASTIC MARKINGS WILL BE 0.090 INCHES THICK. HOT-APPLIED EXTRUDED THERMOPLASTIC SHALL NOT BE
- 3. ALL LETTERED "STOP", "15MPH", AND "SCHOOL" MARKINGS SHALL BE PREFORMED THERMOPLASTIC LEGENDS.
- 4. ANY REMOVAL OR DAMAGE TO STRIPING OUTSIDE OF LIMITS AS SHOWN, WILL BE RE-STRIPED AT THE CONTRACTOR'S
- 5. ALL PAVEMENT MARKINGS AND STRIPING SHALL CONFORM TO (ASSHTO & MUTCD) SPECIFICATIONS AND REQUIREMENTS FOR STREETS AND HIGHWAYS, LATEST ADDITION.



DRAWING SCALES: 1 INCH @ 10 SC = 22"x34" PLANS 1 INCH @ 20 SC = 11"x17" PLANS



INTERSECTION - X2 G STREET (WEST) & H STREET J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC. 9160 Double Diamond Parkway Reno, NV 89521



J-U-B SHALL RETAIN ALL C OTHER RESERVED RIGHT: SHALL NOT BE REUSED W ANY REUSE WITHOUT WRI SOLE RISK AND WITHOUT 2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

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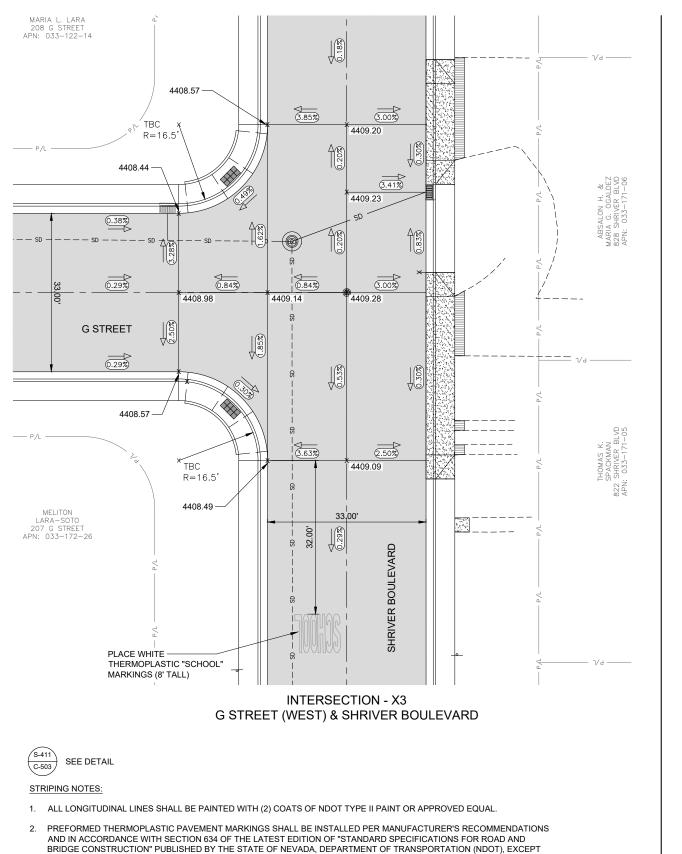
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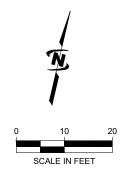
AST UPDATED: 4/1/2021 DRAWING

C-401

SHEET: 11 OF 17



- BRIDGE CONSTRUCTION" PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION (NDOT), EXCEPT ALL THERMOPLASTIC MARKINGS WILL BE 0.090 INCHES THICK. HOT-APPLIED EXTRUDED THERMOPLASTIC SHALL NOT BE
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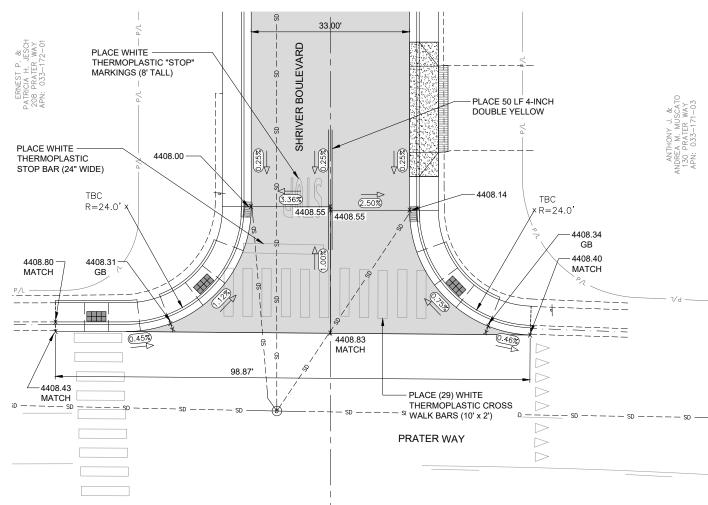


DRAWING SCALES: 1 INCH @ 10 SC = 22"x34" PLANS 1 INCH @ 20 SC = 11"x17" PLANS

# **GRADING & DRAINAGE LEGEND**

PROPOSED LONGITUDINAL GRADE SLOPES

GRADE BREAK LOCATION



**INTERSECTION - X4** SHRIVER BOULEVARD & PRATER WAY



J-U-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521



J-U-B SHALL RETAIN OTHER RESERVED I SHALL NOT BE REU: ANY REUSE WITHOL SOLE RISK AND WIT

2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA INTERSECTION LAYOUTS

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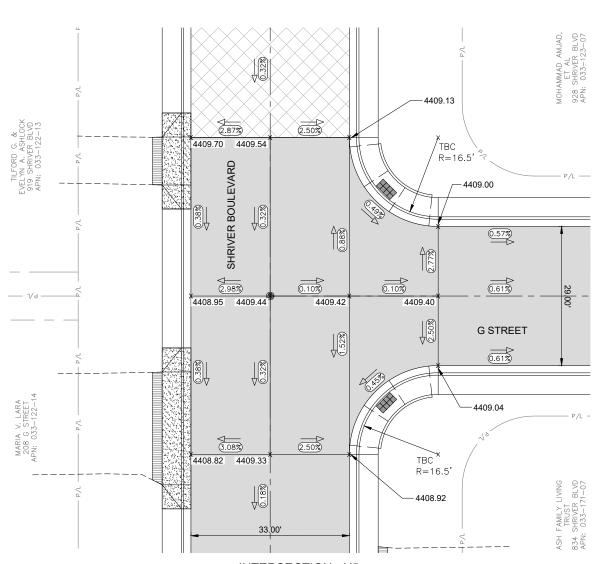
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AST UPDATED: 4/1/2021 DRAWING

C-402

SHEET: 12 OF 17



**INTERSECTION - X5** SHRIVER BOULEVARD & G STREET (EAST)

# **GRADING & DRAINAGE LEGEND**



PROPOSED LONGITUDINAL GRADE SLOPES

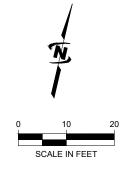
GRADE BREAK LOCATION



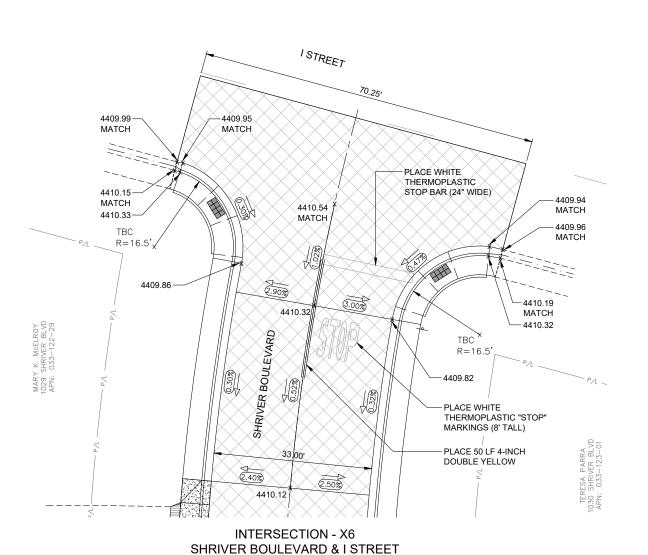
SEE DETAIL

### STRIPING NOTES:

- 1. ALL LONGITUDINAL LINES SHALL BE PAINTED WITH (2) COATS OF NDOT TYPE II PAINT OR APPROVED EQUAL.
- 2. PREFORMED THERMOPLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH SECTION 634 OF THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION (NDOT), EXCEPT ALL THERMOPLASTIC MARKINGS WILL BE 0.090 INCHES THICK. HOT-APPLIED EXTRUDED THERMOPLASTIC SHALL NOT BE
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- 5. ALL PAVEMENT MARKINGS AND STRIPING SHALL CONFORM TO (ASSHTO & MUTCD) SPECIFICATIONS AND REQUIREMENTS FOR STREETS AND HIGHWAYS, LATEST ADDITION.



DRAWING SCALES: 1 INCH @ 10 SC = 22"x34" PLANS 1 INCH @ 20 SC = 11"x17" PLANS





J-U-B ENGINEERS, INC. 9160 Double Diamond Parkway Reno, NV 89521



2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

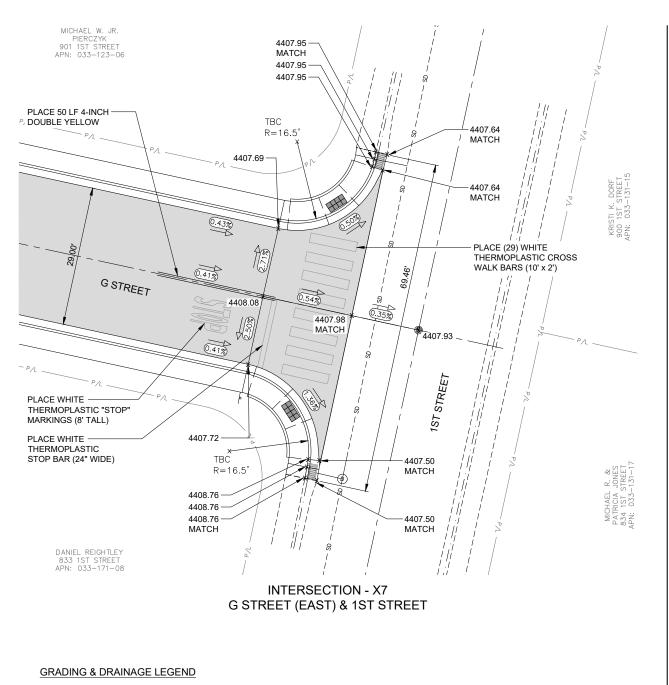
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DRAWING C-403

SHEET: 13 OF 17





PROPOSED LONGITUDINAL GRADE SLOPES

GRADE BREAK LOCATION



SEE DETAIL

### STRIPING NOTES:

- 1. ALL LONGITUDINAL LINES SHALL BE PAINTED WITH (2) COATS OF NDOT TYPE II PAINT OR APPROVED EQUAL.
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DRAWING SCALES: 1 INCH @ 10 SC = 22"x34" PLANS 1 INCH @ 20 SC = 11"x17" PLANS

J-U-B ENGINEERS, INC. 9160 Double Diamond Parkway Reno, NV 89521



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2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVEF CITY OF SPARKS, WASHOE COUNTY, NEVADA

FILE: 49-20-051-GSHR-JUB PROJ. #:49-20-051 DRAWN BY: KBK

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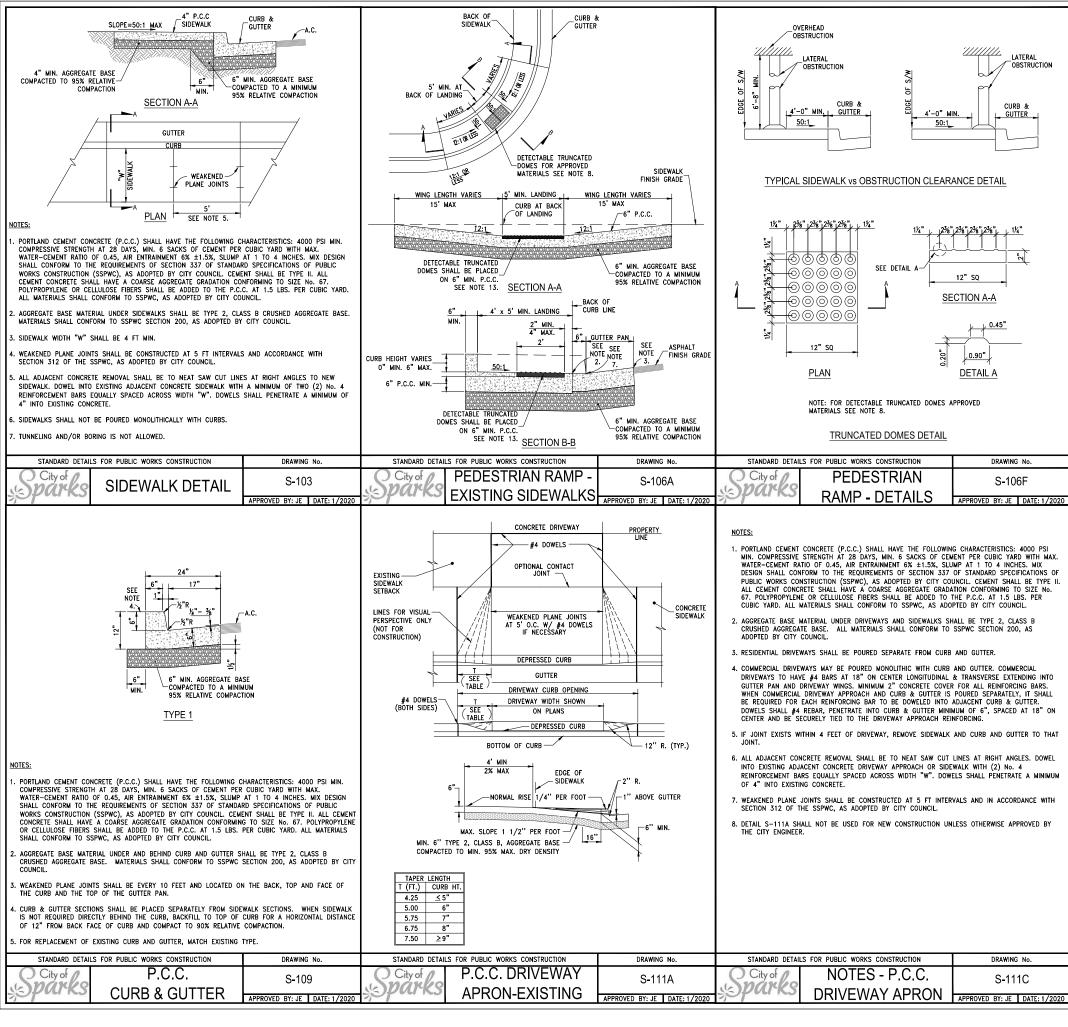
SHEET: 14 OF 17

AST UPDATED: 4/1/2021

DESIGN BY: BB

DRAWING C-404

J-U-B ENGINEERS, INC.



STORM DRAIN INLETS OR SIMILAR ACCESSES SHALL NOT BE LOCATED IN THE AREA AT THE BASE OF THE CURB RAMP OR LANDING AREA. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, PULL BOXES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL OF THE CITY ENGINEER.

NO LIP SHALL BE PERMITTED AT THE CURB RAMP SLOPE TO GUTTER PAN.

- 3. PLANTMIX BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP.
- 4. ROUGH BROOM TEXTURE ON CURB RAMPS AND WINGS.
- DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE PLACED ON MIN. SIX (6") INCHES OF P.C.C.
- ALL SLOPE RATES ARE RELATIVE TO LEVEL AND SHALL COMPLY WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) STANDARDS.
- GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
- DETECTABLE WARNING SHALL CONSIST OF PRECAST WETSET TILES WITH MIN. SIZE OF 2' X 2', COLOR YELLOW. APPROVED PRODUCTS INCLUDE: "CASTINTACT 3", "TEKWAY DOME-TILES", AND "ACCESS TILE". DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITION, OR TURNING SPACE. DETECTABLE WARNING SHALL BE CONSTRUCTED PER MANUFACTURER'S INSTALLATION GUIDELINES AND CONFORM
- 9. CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES

par

- 10. AGGREGATE BASE MATERIAL UNDER PEDESTRIAN RAMPS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY
- 11. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- 12. CONTRACTORS SHALL CORRECT ANY GRADE CONFLICT WITH EXISTING BOXES. THE CITY ENGINEER SHALL MAKE THE FINAL DETERMINATION REGARDING THE DEGREE OF MODIFICATIONS REQUIRED BY THE CONTRACTOR FOR GRADE CONFLICTS BETWEEN EXISTING BOXES AND NEW PEDESTRIAN RAMPS.
- 13. SIDEWALK AT BOTH SIDES OF RAMP MAY BE RECONSTRUCTED TO MINIMIZE THE GRADE AT A SIDEMARK AT SOLE TO BE DETERMINED IN THE FIELD, UPON APPROVAL OF THE CITY ENGINEER, SUBJECT TO PROWAG REQUIREMENTS. CURB AT THE BACK OF WALK MAY BE NEEDED. A TRANSITION SECTION OF SIDEWALK MAY BE NECESSARY TO MATCH CROSS SLOPE OF EXISTING SIDEWALK TO PEDESTRIAN RAMP IMPROVEMENTS. TRANSITION SECTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DRAWING No. J-U-B SHALL RETAIN, OTHER RESERVED R SHALL NOT BE REUS ANY REUSE WITHOU' SOLE RISK AND WITH NOTES -City of S-106G PEDESTRIAN RAMP APPROVED BY: JE DATE: 1/2020

2021 DRAINAGE AND ROADWAY PROJ - G ST & SHRIVER CITY OF SPARKS, WASHOE COUNTY, NEVADA

City of

J-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521

J-U-B

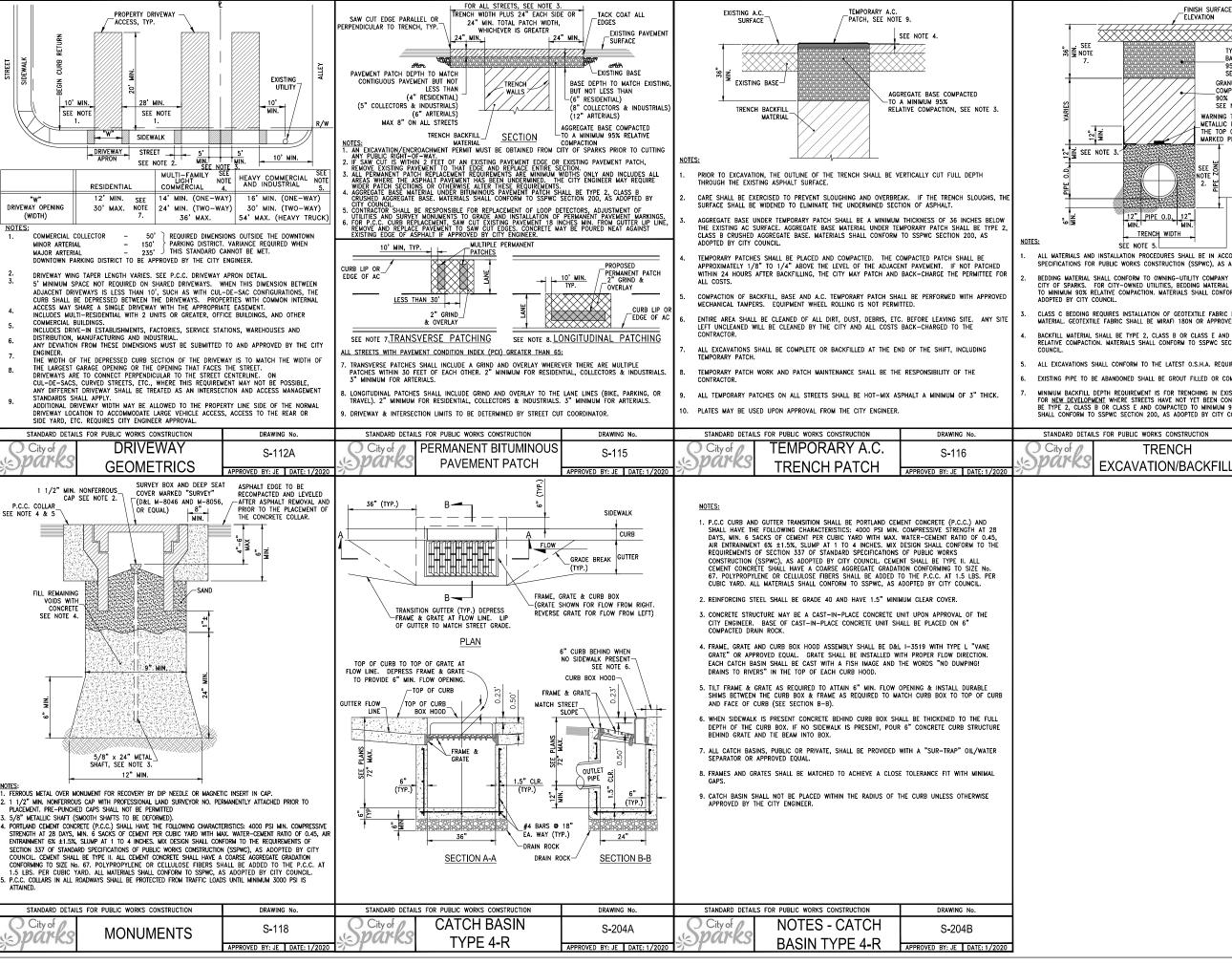
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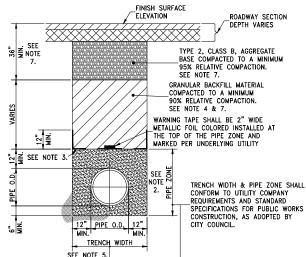
DRAWN BY: KBK J-U-B ENGINEERS, INC.

DESIGN BY: BB HECKED BY: AT FULL SIZE, IF NOT ON AST UPDATED: 4/1/2021 DRAWING C-501

JUB PROJ. #: 49-20-051

SHEET: 15 OF 17





- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL.
- BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE CITY OF SPARKS. FOR CITY-OWNED UTILITIES, BEDDING MATERIAL SHALL BE CLASS A OR C, COMPACTED TO MINIMUM 90% RELATIVE COMPACTION. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS
- CLASS C BEDDING REQUIRES INSTALLATION OF GEOTEXTILE FABRIC BETWEEN PIPE ZONE AND BACKFILL MATERIAL. GEOTEXTILE FABRIC SHALL BE MIRAFI 180N OR APPROVED EQUAL.
- BACKFILL MATERIAL SHALL BE TYPE 2, CLASS B OR CLASS E AND COMPACTED TO MINIMUM 90% RELATIVE COMPACTION. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY
- ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
- EXISTING PIPE TO BE ABANDONED SHALL BE GROUT FILLED OR COMPLETELY REMOVED
- MINIMUM BACKFILL DEPTH REQUIREMENT IS FOR TRENCHING IN EXISTING PAVED STREETS. TRENCHING FOR NEW DEVELOPMENT WHERE STREETS HAVE NOT YET BEEN CONSTRUCTED, BACKFILL MATERIAL SHALL BE TYPE 2, CLASS B OR CLASS E AND COMPACTED TO MINIMUM 90% RELATIVE COMPACTION. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.

TRENCH

DRAWING No. S-117 J-U-B SHALL F OTHER RESE SHALL NOT B ANY REUSE V SOLE RISK AN APPROVED BY: JE DATE: 1/2020 SHRIVER 2021 DRAINAGE AND ROADWAY PROJ - G ST & CITY OF SPARKS, WASHOE COUNTY, NE

City of

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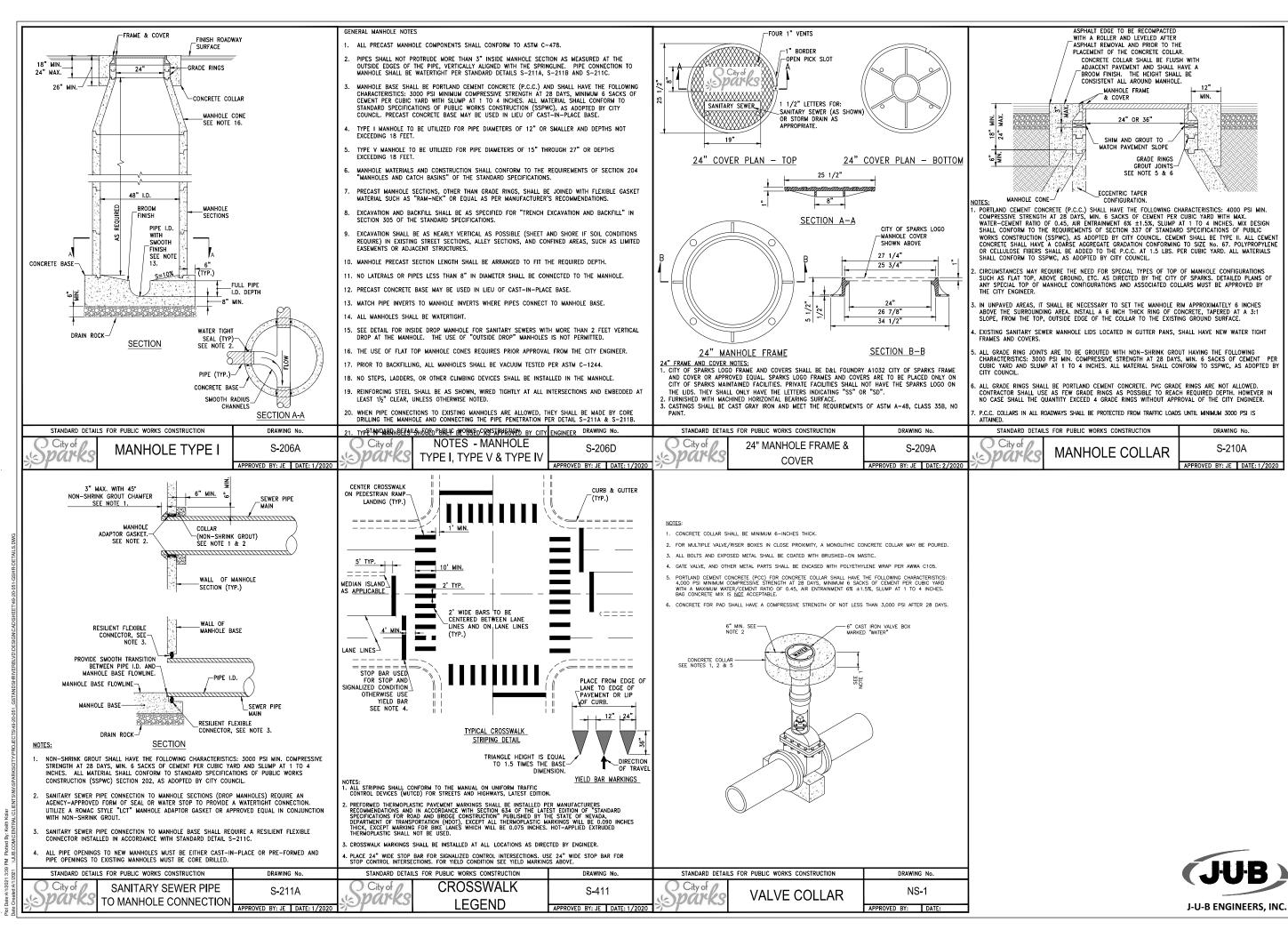
J-B ENGINEERS, IN 9160 Double Diamond Parkway Reno, NV 89521

J-U-B ENGINEERS, INC.

JUB PROJ. #:49-20-051 DRAWN BY: KBK DESIGN BY: BB HECKED BY: ONE INCH = AST UPDATED: 4/1/2021 DRAWING

C-502

SHEET: 16 OF 17



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J-B ENGINEERS, INC 9160 Double Diamond Parkway Reno, NV 89521

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2021 DRAINAGE AND ROADWAY PROJ - G S CITY OF SPARKS, WASHOE COUNTY,

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DRAWN BY: KBK

DESIGN BY: BB

CHECKED BY: LJJ

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AST UPDATED: 4/1/2021

DRAWING: C-503

C-503

SHEET: 17 OF 17