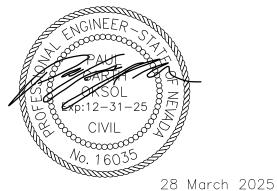
# CITY OF SPARKS 2025 DRAINAGE & ROADWAY PROJECT- M STREET M STREET FROM PYRAMID TO 1 ST. BID # 24/25-014 PWP #WA-2025-217

February 2025



GARTH OKSOL, P.E.
PROJECT ENGINEER

DATE

# PROJECT NO. 07-24-086



#### J-U-B ENGINEERS, INC.

5190 Neil Rd, Ste. 500, Reno, NV 89502 p 775 852 1440 w www.jub.com



THE LANGDON GROUP



GATEWAY MAPPING

J-U-B FAMILY OF COMPANIES





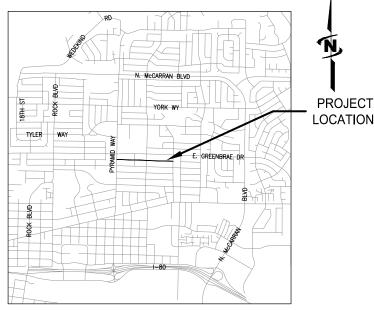
#### CITY OF SPARKS OFFICIALS:

ED LAWSON DONALD ABBOTT DIAN VANDERWELL PAUL ANDERSON CHARLENE BYBEE JOE RODRIGUEZ DION LOUTHAN

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: \_\_\_\_\_ DATE: \_\_\_\_\_ DATE: \_\_\_\_\_

AMBER SOSA, P.E. CITY ENGINEER



# **VICINITY MAP**



LOCATION MAP

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G-003	LEGENDS
G-004	SYMBOLS & ABBREVIATION
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## **BID SET**

3/28/2025

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#### **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, CITY OF SPARKS STANDARDS, 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 FRITION)
- 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.
- THE CONTRACTOR SHALL PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- 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/OR FROSION
- 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. ALL DIMENSIONS ARE TO FRONT FACE OF CURB (FFC) UNLESS NOTED OTHERWISE
- 12. 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
- 13. NO MATERIALS OF ANY KIND SHALL BE STOCKPILED OR CONSTRUCTION EQUIPMENT PARKED ON CONCRETE OR ASPHALT SURFACES UNLESS APPROVED BY THE CITY PROJECT COORDINATOR.
- 14. CONSTRUCTION OF STREET IMPROVEMENTS MUST ALLOW FOR THE PERPETUATION OF ALL EXISTING LEGAL ACCESSES AND EXISTING DRIVEWAYS.
- 15. 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 SUCH MATERIALS.

16. 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.

#### **EXISTING UTILITIES**

- 1. 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.
  - RECENT UTILITY WORK INCLUDES:

    A. NV ENERGY 7TH STREET GAS MAIN REPLACEMENT

    B. TMWA 5TH, 6TH, 7TH, AND G STREET WATER MAIN REPLACEMENT.

    C. TMWA H STREET WATER MAIN REPLACEMENT.

    CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH CURRENT CONDITIONS INCLUDING. BUT NOT LIMITED TO. FIELD INVENTORY.

## **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.
- 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
- 4. 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**

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

GARTH OKSOL, P.E. J-U-B OFFICE - RENO, NV 5190 Neil Rd. Ste. 500 Reno, NV 89502

TRANSPORTATION MANAGER - (CITY OF SPARKS)

ANDREW JAYANKURA, P.E. P.T.O.E, R.S.P

431 Prater Way Sparks, NV 89431 775-353-2273 office

775-852-1440 office

**BID SET** 

3/28/2025



Know what's **below. Call** before you d

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



J-U-B ENGINEERS, INC

U-B ENGINEERS, IN 5190 Neil Road Suite 500 Reno, NV 89502



JULB SHALL RETAIN ALL COMMON LAW, STATIUTORY, COPYRIGHT AND OTHER RESERVED RETORS AND THE SAME SHALL NOT BE REUSED WITHOUT JULBS PRIOW WRITTEN CONSENT ANY REUSE WITHOUT WRITTEN CONSENT BY JULB WILL BE AT CLIENTS SOLE RISK AND WITHOUT WRITTEN CONSENT BY JULB WILL BE AT CLIENTS OF THE REVISION REVISED WITHOUT WRITTEN CONSENT BY JULB SHALL SHA

DRAINAGE & ROADWAY PROJECT M STREET

> : 07-24-086\_G-002 PBO.L # : 07-24-086

DESIGN BY: PSS

DESIGN BY: PSS

CHECKED BY: GO

2025

AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGL

SHEET NUMBER

# LINE LEGEND

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
POWER / COMMUNICA	ATIONS	
OVERHEAD POWER	———ОНР———	OHP
UNDERGROUND POWER	UP	UP
OVERHEAD TELEPHONE	—— онт ——	онт
UNDERGROUND TELEPHONE	——	UT
FIBER OPTIC	——F/0——	F/O
CABLE TELEVISION	стv	ctv
UNDERGROUND POWER, TEL, CABLE TV		- — — -P,T,CTV - — — -
UNDERGROUND POWER, TEL, CABLE TV, GAS		— — P,T,CTV,G — — —
STORM DRAIN		
STORM DRAIN (GENERAL)	sp	sp
STORM DRAIN	——————————————————————————————————————	x"sp
ROOF DRAIN	RD	RD
LAND DRAIN	——LD——	LD
SANITARY SEWER		
SANITARY SEWER (GENERAL)	ss	ss
SANITARY SEWER	X*ss	x"ss
SANITARY SEWER SERVICE	—ss——ss—	ss ss
SEWER FORCE MAIN	———ғм——	FM
WATER		
WATER (GENERAL)	w	w
WATER (SPECIFIED SIZE)	×*W	x"w
WATER SERVICE	wsws	ws ws
IRRIGATION		
IRRIGATION	IRR	IRR
GRAVITY IRRIGATION	GIRR	GIRR
PRESSURE IRRIGATION		— — — PIRR — — —
POTABLE WATER	PW	PW
NON-POTABLE WATER	NPW	NPW
GAS		
NATURAL GAS	G	g
NATURAL GAS SERVICE	— G — G —	G G
HIGH PRESSURE GAS	HPG	HPG
LIQUID GAS	LG	LG
UTILITY		
CHLORINE LINE	——— CHL ———	CHL
INDUSTRIAL WASTE WATER	iww	IWW

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
BOUNDARY		
PROPERTY LINE	——P/L——	P/L
PROPERTY LINE		
RIGHT OF WAY	R/W	R/W
TEMPORARY EASEMENT	T/E	——— т/Е ———
PERMANENT EASEMENT	———P/E———	———— P/E ————
TOWNSHIP AND RANGE		
SECTION LINE		
QUARTER SECTION LINE		
1/16 SECTION LINE		
STATE LINE		
COUNTY LINE		
SITE		
FENCE	x	x
MAJOR CONTOUR	2521	
MINOR CONTOUR		
GRADE BREAK		GB
TOP OF BANK		тов
TOE OF SLOPE		тое
CUT LIMITS		
CUT LIMITS	сит	
FILL LIMITS		
FILL LIMITS	FILL	
DITCH		
STORM SWALE	· ·	
EDGE OF WATER		
HIGH WATER		
WETLAND		WET
WETLAND BOG		BOG
WETLAND MARSH		MRSH
WETLAND SWAMP		SWMP
ROADWAY		
ROAD SHOULDER		
ROAD CENTERLINE		
ROAD ASPHALT		— — — EP — — — —
ROAD GRAVEL	EG	— — — EG — — — —
TOP BACK OF CURB		
LIP OF GUTTER		
LANDSCAPING LIMITS	Ls	Ls

**BID SET** 3/28/2025

# SHEET NUMBERING

SAMPLE: C-101

- DISCIPLINE DESIGNATOR - SHEET TYPE DESIGNATOR - SHEET SEQUENCE NUMBER

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	Α	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	

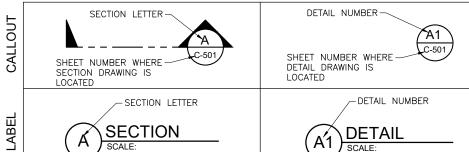
	SHEET TYPE DESIGNATORS		
DESIGNATOR	SHEET TYPE		
0	GENERAL (SYMBOLS, LEGENDS, NOTES, ETC.)		
1	PLANS (HORIZONTAL VIEWS)		
2	ELEVATIONS, PROFILES, COMBINED PLAN & PROFILES		
3	SECTIONS (SECTIONAL VIEWS)		
4	LARGE-SCALE VIEWS (PLANS, ELEVATIONS, ECT.)		
5	DETAILS OR COMBINED DETAILS AND SECTIONS		
6	SCHEDULES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

# 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



J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC. 5190 Neil Road Suite 500 Reno, NV 89502



2025 DRAINAGE & ROADWAY PROJECT M STREET

HECKED BY: GO

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

SHEET NUMBER:

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
SURVEY		
CAP (ALUMINUM)	$\oplus$	
CAP (BRASS)	•	
CHISELED X	$\boxtimes$	
CTRL PT GENERIC		
CTRL PT ½" REBAR	△1/2" PIN CONTROL PT	
CTRL PT %" REBAR	△ 5/8" PIN CONTROL PT	
CTRL PT 60D NAIL	<b>△</b> 60D	
CTRL PT HUB & TACK	А нт	
CTRL PT PK NAIL	<b>△</b> PK	
CTRL PT TEMP BENCH MARK	А твм	
NAIL	<b>\times</b>	•
NAIL AND TAG	$\bigcirc^{N/T}$	
NAIL (PK)	© <sup>PK</sup>	
BOLT	•	
DRILL STEEL	0	
REBAR (½")	0	•
REBAR (5/8")	0	•
STAINLESS STEEL ROD	•	
IRON PIPE	<b>©</b>	
RAILROAD SPIKE	$\Diamond$	
R/W MONUMENT	0	
STONE	$\oplus$	
SECTION CORNER. MON.	22 15	
SECTION QUARTER MON.	15 22	
SITE		
BOLLARD		Ø
BOULDER	0	<b></b>
DRINKING FOUNTAIN	DF	DF
FLAGPOLE	(F)	(F)
GATE		
MAIL BOX	M	M
PARKING METER	<u>P</u> M	₽₩.
POST	0	•
SIGN	<del>-</del>	<del></del>
SPOT ELEVATION		×
TREE (SHRUB)	0	
TREE (STUMP)	Pl	
TREE (CONIFEROUS)	W. W	
TREE (DECIDUOUS)		
TEST HOLE	TH	
WELL	Ŵ	
WELL (MONITORING)	M	M

SYMBOL DESCRIPTION DESCRIPTION UTILITIES  MANHOLE (GENERIC) PRESSURE CLEAN OUT AT GRADE THRUST BLOCK VAULT  COMMUNICATION TELE. MANHOLE TELE. PEDESTAL TELE. POLE TV PEDESTAL TO TV PEDESTAL TO TV PEDESTAL TELE. POLE TV PEDESTAL TO TV PEDESTAL TELE. POLE TV PEDESTAL TO TV TV PEDESTAL TO TV			
MANHOLE (GENERIC) PRESSURE CLEAN OUT AT GRADE THRUST BLOCK VAULT  COMMUNICATION  TELE. MANHOLE TELE. PEDESTAL TELE. POLE TV PEDESTAL TO PE			
PRESSURE CLEAN OUT AT GRADE THRUST BLOCK VAULT  COMMUNICATION TELE. MANHOLE TELE. MANHOLE TO PEDESTAL	UTILITIES		
THRUST BLOCK VAULT  COMMUNICATION  TELE. MANHOLE TELE. PEDESTAL TELE. POLE TV PEDESTAL GUY WIRE  DOMESTIC WATER  FIRE HYDRANT SPIGOT YARD HYDRANT WATER MANHOLE WATER METER WATER VALVE  ELEC.TRIC  ELEC. MANHOLE ELEC. METER ELEC. TRANS.  JUNCTION BOX POWER STUB STREET LIGHT TRAFFIC SIGNAL POLE IRRIGATION VALVE BRIGATION VALVE BRIGATION VALVE BRIGATION VALVE BOX SPRINKLER A NATURAL GAS  GAS METER GAS VALVE  SANITARY SEWER CLEANOUT SEWER STUB SS MANHOLE  STORM DRAIN  CATCH BASIN BI GO O O O O O O O O O O O O O O O O O O	MANHOLE (GENERIC)	0	•
COMMUNICATION  TELE. MANHOLE  TELE. PEDESTAL  TELE. POLE  TV PEDESTAL  GUY WIRE  DOMESTIC WATER  FIRE HYDRANT  SPIGOT  WATER MANHOLE  WATER MANHOLE  WATER MANHOLE  WATER MANHOLE  WATER MANHOLE  WATER WATER  B  B  B  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. MANHOLE  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION VALVE  BANTURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  S S MANHOLE  STORM DRAIN  CATCH BASIN  B  GRASSE TRAP   O  O  O  O  O  O  O  O  O  O  O  O		PCG	PCG
COMMUNICATION  TELE. MANHOLE  TELE. PEDESTAL  TO PEDESTAL  GUY WIRE  DOMESTIC WATER  FIRE HYDRANT  SPIGOT  YARD HYDRANT  WATER MANHOLE  WATER METER  WATER VALVE  ELEC. MANHOLE  ELEC. MANHOLE  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION VALVE  BANITARY SEWER  CLEANOUT  SEWER STUB  S SANITARY SEWER  CLEANOUT  SEWER STUB  S SEWER STUB  S SEWER STUB  S SEWER STUB  S SANITARY SEWER  CLEANOUT  SEWER STUB  S S MANHOLE  STORM DRAIN  CATCH BASIN  E  GO  D  O  O  O  O  O  O  O  O  O  O  O  O	THRUST BLOCK		_
TELE. MANHOLE  TELE. PEDESTAL  TELE. POLE  TV PEDESTAL  GUY WIRE   TV PEDESTAL  GUY WIRE   TV PEDESTIC WATER  FIRE HYDRANT  SPIGOT  YARD HYDRANT  WATER MANHOLE  WATER METER  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION  IRRIGATION  SPRINKLER  A  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  S S MANHOLE  STORM DRAIN  CATCH BASIN  FLARE END  GREASE TRAP	VAULT	V	V
TELE. PEDESTAL  TELE. POLE  TV PEDESTAL  GUY WIRE  TV PEDESTAL  GUY WIRE  TV PEDESTAL  GUY WIRE  TY PEDESTAL  TY PEDE	COMMUNICATION		
TELE. POLE  TV PEDESTAL  GUY WIRE  DOMESTIC WATER  FIRE HYDRANT  SPIGOT  WATER MANHOLE  WATER MANHOLE  WATER VALVE  ELEC. MANHOLE  ELEC. METER ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION VALVE  BANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  SS MANHOLE  SS MANHOLE  SS MANHOLE  STORM DRAIN  CATCH BASIN  FLARE END  GREASE TRAP	TELE. MANHOLE	T	•
TV PEDESTAL GUY WIRE  DOMESTIC WATER  FIRE HYDRANT SPIGOT ARAD HYDRANT WATER MANHOLE WATER METER WATER VALVE ELECTRIC ELEC. MANHOLE ELEC. METER ELEC. TRANS. JUNCTION BOX POWER POLE POWER STUB STREET LIGHT TRAFFIC SIGNAL POLE IRRIGATION IRRIGATION VALVE BANITARY SEWER CLEANOUT SEWER STUB SS MANHOLE SS MANHOLE SS MANHOLE SS MANHOLE SS MANHOLE SS MANHOLE STORM DRAIN CATCH BASIN FIRE A DO O  OF OTHER CANCELLY OF THE CONTROL OF	TELE. PEDESTAL	◐	◐
GUY WIRE  DOMESTIC WATER  FIRE HYDRANT  SPIGOT  YARD HYDRANT  WATER MANHOLE  WATER METER  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE  BANITARY SEWER  CLEANOUT  SEWER STUB  S SANITARY SEWER  CLEANOUT  SEWER STUB  S STORM DRAIN  CATCH BASIN  E  A  A  A  A  A  A  A  A  A  A  A  A	TELE. POLE	<del>-</del>	•
DOMESTIC WATER  FIRE HYDRANT  SPIGOT  YARD HYDRANT  WATER MANHOLE  WATER MANHOLE  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE  BANHOLE  SPINKLER  AA  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  BI  GAS VELLE  STORM DRAIN  CATCH BASIN  FLARE END  GREASE TRAP	TV PEDESTAL	īV	₩
FIRE HYDRANT  SPIGOT  YARD HYDRANT  WATER MANHOLE  WATER METER  WATER VALVE  ELEC. TRANS.  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION VALVE  BRIGATION  IRRIGATION VALVE  SPRINKLER  A  A  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  POWER POLE  POWER STUB  STORM DRAIN  CATCH BASIN  FLARE END  GREASE TRAP	GUY WIRE	$\uparrow$	$\uparrow$
SPIGOT YARD HYDRANT WATER MANHOLE WATER METER WATER VALVE  ELEC. TRANS. JUNCTION BOX POWER POLE POWER STUB STREET LIGHT TRAFFIC SIGNAL POLE IRRIGATION IRRIGATION VALVE BRIGATION SPRINKLER  NATURAL GAS GAS WETER GAS VALVE  SANITARY SEWER  CLEANOUT SEWER STUB SS MANHOLE  STORM DRAIN  CATCH BASIN DRY WELL FLARE END GREASE TRAP	DOMESTIC WATER		•
YARD HYDRANT  WATER MANHOLE  WATER METER  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE  BAS WATER  A A  NATURAL GAS  GAS WATER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GE  STORM DRAIN  CATCH BASIN  GE  GAS WALVE  GE  GAS WALVE  GE  GE  GE  GE  GE  GE  GE  GE  GE	FIRE HYDRANT	A	A
WATER MANHOLE  WATER METER  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE  BANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP	SPIGOT	•	€
WATER METER  WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  GREASE TRAP	YARD HYDRANT	Ŷ	•
WATER VALVE  ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE  IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  GREASE TRAP	WATER MANHOLE	w	•
ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS WETER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  S MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP	WATER METER	Ħ	
ELECTRIC  ELEC. MANHOLE  ELEC. METER  ELEC. TRANS.  ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS WETER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP	WATER VALVE	×	w H
ELEC. METER  ELEC. TRANS.  ELE			
ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  S S MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP	ELEC. MANHOLE	(E)	•
ELEC. TRANS.  JUNCTION BOX  POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE  IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  S S MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GO  GREASE TRAP	ELEC. METER	Ē	<u>E</u>
POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		E	
POWER POLE  POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP	JUNCTION BOX	IJ	l II
POWER STUB  STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION  IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		_	
STREET LIGHT  TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		(F)	(F)
TRAFFIC SIGNAL POLE  IRRIGATION  IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
IRRIGATION  IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			,,,
IRRIGATION VALVE IRRIGATION VALVE BOX  SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
IRRIGATION VALVE BOX  SPRINKLER  A  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		RB	RB
SPRINKLER  NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
NATURAL GAS  GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
GAS METER  GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  S  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		215	<b>A</b>
GAS VALVE  SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		<u>G</u>	<u>G</u>
SANITARY SEWER  CLEANOUT  SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
CLEANOUT  SEWER STUB  S SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		Ň	×
SEWER STUB  SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			_
SS MANHOLE  STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
STORM DRAIN  CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP		<u>(S)</u>	(S)
CATCH BASIN  DRY WELL  FLARE END  GREASE TRAP			
DRY WELL  FLARE END  GREASE TRAP			_
FLARE END  GREASE TRAP			
GREASE TRAP	DRY WELL		(w)
ONE ISE TIVE	FLARE END		
SD MANHOLE ①	GREASE TRAP		<b>®</b> O
	SD MANHOLE	0	•

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
FITTINGS	01502	
BEND (11.25°)		I
BEND (22.5°)		$\rightarrow$
BEND (45°)		<b>T</b>
BEND (90°)		Ч
CAP		E
COUPLING	#	#
CROSS	$\pm$	$\pm$
REDUCER (CONCENTRIC)	M	M
REDUCER (ECCENTRIC)	N	N
TEE	ㅗ	ᄑ
TRUE UNION	=	=
WYE	$\vdash$	$\vdash$
VALVES		
AIR VALVE		A
BLOW OFF	B	▲
COMBO VALVE	<u> </u>	<u>&amp;</u>
BALL VALVE (N.C.)	J <b>•</b> [	J <b>⊕</b> [
BALL VALVE (N.O.)	1 <u>o</u> t	1 <u>0</u> 1
BUTTERFLY VALVE	N	N
CHECK VALVE	И	И
CHECK VALVE (FLANGE)	N	Ν
CHECK VALVE (MJ)	N	N
GATE VALVE	$\bowtie$	$\bowtie$
PLUG VALVE (N.C.)	$\bowtie$	<b>₩</b>
PLUG VALVE (N.O.)	M	<b>**</b>
ROAD MARKINGS	Ι 4	
TURN ARROW		7
ARROW STRAIGHT		<b>†</b>
ARROW STRAIGHT/TURN	\frac{1}{2}	4
BICYCLE ROUTE		do
CAR		
HANDICAP SYMBOL	Ë	Ġ.
ROADWAY		
INTERSTATE ROUTE	25	
MAST ARM		
PEDESTRIAN SIGNAL		
STATE ROUTE	14	

TRAFFIC LIGHT

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
ROADWAY (CONT.)		
TYPE 2 BARRICADE	• •	
US ROUTE	287	
TRAFFIC ATTENUATOR		
JERSEY BARRIER		

	BREVIATIONS
ASSY	ASSEMBL
>	ANGLI
0	AT (MEASUREMENTS
BLDG	BUILDING
ВМ	BENCH MARK
BSC	BITUMINOUS SURFACE COURSI
BSW	BACK OF SIDEWALI
BW	BOTH WAYS
С	CHANNEL (STRUCTURAL
C/L	CENTER LINI
CMP	CORRUGATED METAL PIPI
CO	CLEANOU'
CONC	CONCRETE
CONT	CONTINUOUS
CPLG	COUPLING
CU FT	CUBIC FEET
CU YD	CUBIC YARI
DEG OR *	DEGREE
DET	DETAIL
DIA OR Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTRIBUTION
DWG	DRAWING
EA	EACH
ELB	ELBOV
ELEV	ELEVATION
EW	EACH WAY
EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRAN
FLG	FLANGE
FT OR '	FEE <sup>-</sup>
GV	GATE VALVE
HORIZ	HORIZONTAI
ID	INSIDE DIAMETER
IN OR "	INC
LB OR #	POUNI
LF	LINEAL FEE
LN	LINEAL
MAX	MAXIMUN
MIN	MINIMUM
NO OR #	NUMBER
PE	POLYETHYLENE
PL	PLATE
PL	PROPERTY LINE
PVC	POLYVINYL-CHLORIDE
R	RADIUS
RP	RADIUS POIN
	REMOVE & REPLACE
R&R	REMOVE & REPLACE
REM	
REQ'D	REQUIRED REVISION
REV	
R/W	RIGHT-OF-WAY

S	SLOPE
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
STL	STEEL
ST STL	STAINLESS STEEL
TBC	TOP BACK OF CURE
TYP	TYPICAL
TFC	TOP FACE OF CONCRETE
W/	WITH
W/O	WITHOUT
W/REQ'D	WHERE REQUIRED



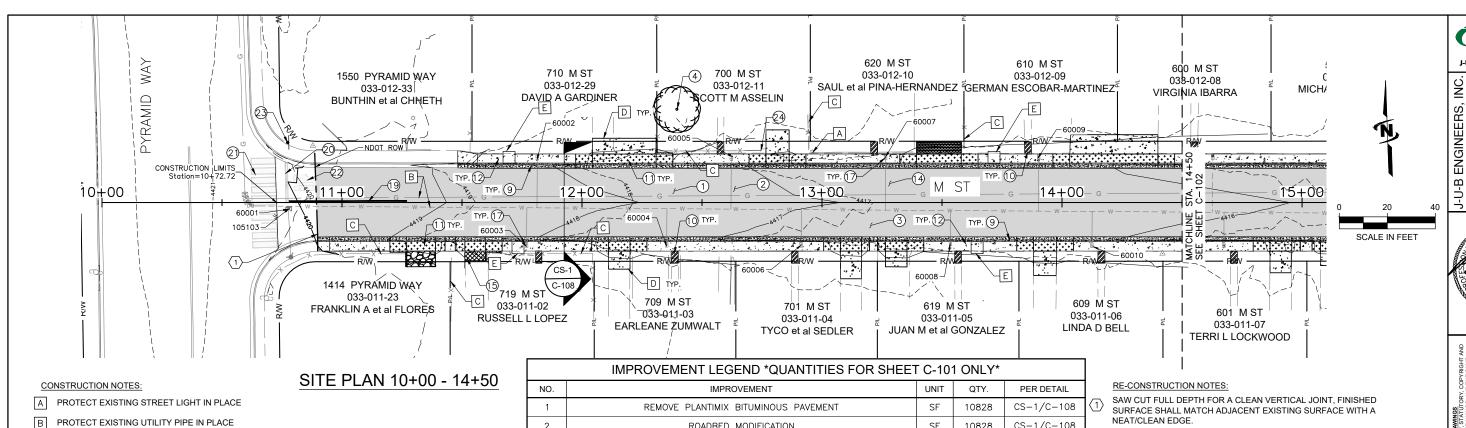
J-U-B ENGINEERS, INC. 5190 Neil Road Suite 500 Reno, NV 89502

28 Marc	h	2	20:	25		
SHT AND AME ISENT CLIENT'S I-U-B.						BY APR. DATE
PYRIC HE SA N CON BE AT E TO J						APR.
Y, CO AND T RITTEI WILL DSUR						ВУ
REUSE OF DRAWINGS OTHER RESERVED RIGHTS OF THESE CHANNINGS, AND THE SAME OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME THE RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME AND WEBUSE WITHOUT WRITTEN CONSIGNI BY JUB SHORT OF THE STAND STAND SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JUB.	REVISION					DESCRIPTION
SH/ SH/ SOI						Š.

2025 DRAINAGE & ROADWAY PROJECT M STREET FILE: 07-24-086 G004
JUB PROJ. #: 07-24-086
DRAWN BY: PSS
DESIGN BY: PSS
OHEINCH
AT FULL SIZE, IF NOT ONE
INCH SOALE ACCORDINGL!
LAST UPDATED: 2/12/2025
SHEET NUMBER:

SYMBOLS & ABBREVIATIONS

**BID SET** 3/28/2025



# HATCH LECEND

PROTECT EXISTING FENCE IN PLACE

E ADA PASSING SPACES (60" x 60" PAD)

D MATCH TO EXISTING GRADE

HATO	CH LEGEND	
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED PAVEMENT REHABILITATION		CS-1 C-108
PROPOSED FULL DEPTH PAVEMENT PATCH		S-115 D-501
PROPOSED CONCRETE REPLACEMENT SECTION	4 · · 4 4 4	S-109 D-501 S-103 D-501
PROPOSED DRIVEWAY APRON REPLACEMENT	* * * * * * * * * * * * * * * * * * *	S-111B D-501
PROPOSED GRAVEL REPLACEMENT		
PROPOSED PAVER/BRICK REPLACEMENT		
PROPOSED WALKWAY REPLACEMENT		S-103 D-501
REMOVE & REPLACE MOW STRIP		

	IVII NOVEMENT LEGEND QUANTITIES FOR GIVE			
NO.	IMPROVEMENT	UNIT	QTY.	PER DETAIL
1	REMOVE PLANTIMIX BITUMINOUS PAVEMENT	SF	10828	CS-1/C-108
2	ROADBED MODIFICATION	SF	10828	CS-1/C-108
3	OVEREXCAVATION OF UNSUITABLE MATERIAL, FURNISH & PLACE TYPE 1 AGGREGATE BASE (CONTINGENT)	CY	17	CS-1/C-108
4	PROVIDE ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST	HR	4	N/A
5	REMOVE AND DISPOSE OF EXISTING TREE	EA	0	N/A
6	GRIND EXISTING TREE STUMP AND DISPOSE OF GRINDINGS	EA	0	N/A
7	REMOVE EXISTING AND INSTALL TYPE 4R DRAINAGE INLET	EA	0	S-204A, S-204B/D-503
8	REMOVE AND REPLACE 15" PVC SDR STORM DRAIN PIPE	LF	0	S-117/D-503
9	REMOVE EXISTING AND CONSTRUCT PCC TYPE I CURB AND GUTTER	LF	667	S-109/D-501
10	REMOVE AND REPLACE RESIDENTIAL WALKWAY	SF	126	S-103/D-501
11	REMOVE EXISTING AND CONSTRUCT PCC RESIDENTIAL DRIVEWAY APRON	SF	2190	S-111B, S-111C/D-501
12	REMOVE EXISTING AND CONSTRUCT PCC SIDEWALK	SF	1503	S-103/D-501
13	REMOVE EXISTING AND CONSTRUCT PCC ADA ACCESSIBLE RAMP	EA	0	S-106A/D-501
14	FURNISH AND INSTALL 4-INCH PLANTMIX BITUMINOUS PAVEMENT	SF	10828	CS-1/C-108
15	FURNISH AND INSTALL FULL DEPTH PAVEMENT PATCH	SF	34	S-115/D-501
16	PROTECT AND ADJUST UTILITY VALVE TO FINISH GRADE	EA	0	10L-9D/D-502
17	PROTECT AND ADJUST METER BOX TO FINISH GRADE	EA	9	10K-2/D-502
18	ABANDON WATER MONITORING WELL	EA	0	D1/D-502
19	INSTALL 4-INCH SOLID DOUBLE YELLOW CENTERLINE STRIPING (TYPE II WATERBORNE),	LF	50	MUTCD 3B.01
20	INSTALL 24-INCH STOP BAR (THERMOPLASTIC)	LF	17	S-411/D-502
21	INSTALL INTERNATIONAL CROSSWALK (THERMOPLASTIC)	LF	37	S-411/D-502
22	INSTALL 8-FOOT STOP LEGENDS (THERMOPLASTIC)	EA	1	MUTCD 3B.20
23	FURNISH AND INSTALL NEW STOP SIGN AND POST, SALVAGE AND RE-INSTALL STREET SIGNS	EA	1	S-401A/D-502
24	REMOVE AND REINSTALL FENCING/GATE	LF	43	N/A
25	REMOVE AND REPLACE PCC MOW STRIP  DESIGN TABLE M STREET SHEET C-101	LF	0	N/A

	DESIGN TABLE IN STREET SHEET C-101													
	TOP BA	CK OF CUR	B (LEFT)	LIP	OF GUTTER (I	.EFT)	CR	OWN	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET (FT)	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	OFFSET (FT)	EXISTING	PROPOSED
11+00.00	16.25	19.82	19.78	1.56%	19.64	19.64	19.86	19.86	3.71%	19.56	19.34	16.25	19.72	19.81
11+50.00	16.25	19.07	18.85	2.13%	18.80	18.60	19.07	18.90	2.66%	18.70	18.52	16.25	18.89	18.70
12+00.00	16.25	18.05	18.17	2.50%	18.00	17.85	18.41	18.20	3.43%	17.86	17.71	16.25	17.99	18.18
12+50.00	16.25	17.42	17.79	2.50%	17.31	17.32	17.54	17.67	4.04%	17.16	17.10	16.25	17.29	17.57
13+00.00	16.25	16.75	17.14	2.50%	16.79	16.67	17.07	17.03	2.51%	16.82	16.67	16.25	16.97	17.14
13+50.00	16.25	16.49	16.50	2.50%	16.58	16.44	16.92	16.80	2.75%	16.57	16.41	16.25	16.75	16.86
14+00.00	16.25	16.39	16.73	2.50%	16.32	16.23	16.63	16.62	3.33%	16.39	16.14	16.25	16.55	16.29
14+50.00	16.25	16.15	16.31	2.50%	16.08	15.84	16.31	16.20	2.21%	16.08	15.88	16.25	16.28	16.35

Poin	t Table					
Point #	Description					
60001	WV					
60002	WM					
60003	WM					
60004	WM					
60005	WM					
60006	WM					
60007	WM					
60008	WM					
60009	WM					
60010	WM					
105103	WV					

THIS TABLE IS FOR CONSTRUCTION PURPOSES ONLY. THESE ARE NOT TO BE COUNTED FOR QUANTITIES.

> **BID SET** 3/28/2025

Driveway Build Back Table								
Address	Driveway Distance From Back of Sidewalk							
1414 Pyram id Way	6.5'							
719 M ST.	4.0'							
710 M ST.	6.5'							
709 M ST.	7.5'							
700 M ST.	10.0'							
701 M ST.	11.5'							
620 M ST.	5.0'							
619 M ST.	6.5'							
610 M ST.	8.0'							
609 M ST.	10.2'							
600 M ST.	8.0'							

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, IN 5190 Neil Road Suite 500 Reno, NV 89502

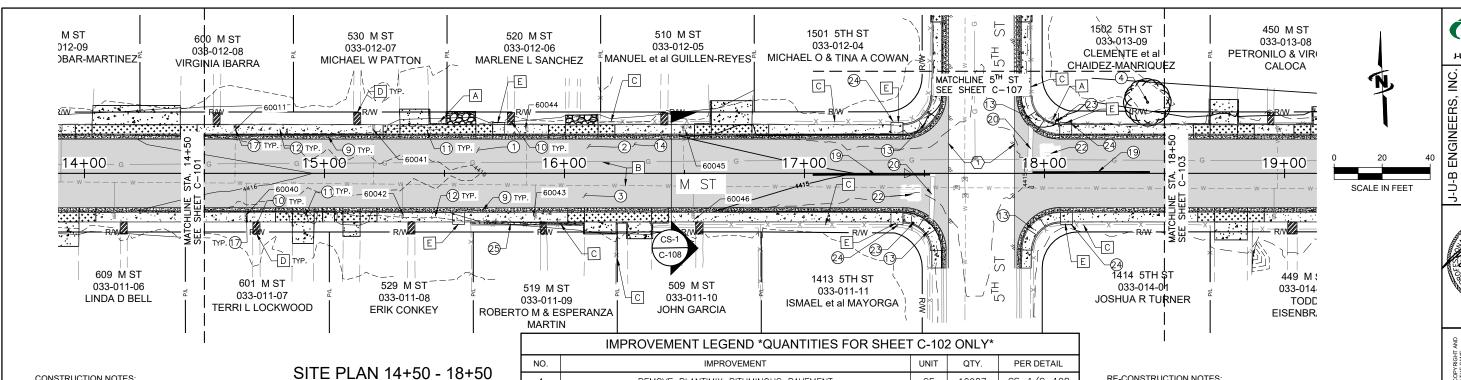


	OTHER RESERVED RIGHTS OF THESE DRAWNINGS, AND THE SAME SHALL NOT BE RELEGED WITHOUT JULES PROKE WRITTEN CONSERVANT RELISE WITHOUT WRITTEN CONSERVED BY JULES WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULIO SOLLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULIO JULIO STATEMENT AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULIO JULIO STATEMENT AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULIO JULIO STATEMENT AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULIO JULIO STATEMENT AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JULIO JULIO STATEMENT AND WITHOUT STATEMENT AND	SUR ANDRE	N CON	<u> </u>
1	REVISION	Ш		
	NO. DESCRIPTION	≧	BY APR.	

2025 DRAINAGE & ROADWAY PROJECT M STREET SITE PLAN 10+00 - 14+50

ONE INCH =

SHEET NUMBER:



CONSTRUCTION NOTES:

A PROTECT EXISTING STREET LIGHT IN PLACE

PROTECT EXISTING UTILITY PIPE IN PLACE

PROTECT EXISTING FENCE IN PLACE

D MATCH TO EXISTING GRADE

E ADA PASSING SPACES (60" x 60" PAD)

## HATCH I ECENID

HATO	HATCH LEGEND									
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL								
PROPOSED PAVEMENT REHABILITATION		CS-1 C-108								
PROPOSED FULL DEPTH PAVEMENT PATCH		S-115 D-501								
PROPOSED CONCRETE REPLACEMENT SECTION	4 4	S-109 D-501 S-103 D-501								
PROPOSED DRIVEWAY APRON REPLACEMENT	+ + + + + + + + + + + + + + + + + + + +	S-111B D-501								
PROPOSED GRAVEL REPLACEMENT										
PROPOSED PAVER/BRICK REPLACEMENT										
PROPOSED WALKWAY REPLACEMENT		S-103 D-501								
REMOVE & REPLACE MOW STRIP										

	10 1 2 2 2 2 2			
NO.	IMPROVEMENT	UNIT	QTY.	PER DETAIL
1	REMOVE PLANTIMIX BITUMINOUS PAVEMENT	SF	10987	CS-1/C-108
2	ROADBED MODIFICATION	SF	10987	CS-1/C-108
3	OVEREXCAVATION OF UNSUITABLE MATERIAL, FURNISH & PLACE TYPE 1 AGGREGATE BASE (CONTINGENT)	CY	17	CS-1/C-108
4	PROVIDE ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST	HR	4	N/A
5	REMOVE AND DISPOSE OF EXISTING TREE	EA	0	N/A
6	GRIND EXISTING TREE STUMP AND DISPOSE OF GRINDINGS	EA	0	N/A
7	REMOVE EXISTING AND INSTALL TYPE 4R DRAINAGE INLET	EA	0	S-204A, S-204B/D-503
8	REMOVE AND REPLACE 15" PVC SDR STORM DRAIN PIPE	LF	0	S-117/D-503
9	REMOVE EXISTING AND CONSTRUCT PCC TYPE I CURB AND GUTTER	LF	871	S-109/D-501
10	REMOVE AND REPLACE RESIDENTIAL WALKWAY	SF	116	S-103/D-501
11	REMOVE EXISTING AND CONSTRUCT PCC RESIDENTIAL DRIVEWAY APRON	SF	1362	S-111B, S-111C/D-501
12	REMOVE EXISTING AND CONSTRUCT PCC SIDEWALK	SF	1877	S-103/D-501
13	REMOVE EXISTING AND CONSTRUCT PCC ADA ACCESSIBLE RAMP	EA	4	S-106A/D-501
14	FURNISH AND INSTALL 4-INCH PLANTMIX BITUMINOUS PAVEMENT	SF	10987	CS-1/C-108
15	FURNISH AND INSTALL FULL DEPTH PAVEMENT PATCH	SF	0	S-115/D-501
16	PROTECT AND ADJUST UTILITY VALVE TO FINISH GRADE	EA	0	10L-9D/D-502
17	PROTECT AND ADJUST METER BOX TO FINISH GRADE	EA	8	10K-2/D-502
18	ABANDON WATER MONITORING WELL	EA	0	D1/D-502
19	INSTALL 4-INCH SOLID DOUBLE YELLOW CENTERLINE STRIPING (TYPE II WATERBORNE),	LF	100	MUTCD 3B.01
20	INSTALL 24-INCH STOP BAR (THERMOPLASTIC)	LF	40	S-411/D-502
21	INSTALL INTERNATIONAL CROSSWALK (THERMOPLASTIC)	LF	0	S-411/D-502
22	INSTALL 8-FOOT STOP LEGENDS (THERMOPLASTIC)	EA	2	MUTCD 3B.20
23	FURNISH AND INSTALL NEW STOP SIGN AND POST, SALVAGE AND RE-INSTALL STREET SIGNS	EA	2	S-401A/D-502
24	REMOVE AND REINSTALL FENCING/GATE	LF	20	N/A
25	REMOVE AND REPLACE PCC MOW STRIP	LF	47	N/A
	DESIGN TARLE M STREET SHEET C-102			

	DESIGN TABLE M STREET SHEET C-102													
	TOP BA	CK OF CUR	B (LEFT)	LIP (	of Gutter (	LEFT)	CROWN		LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET (FT)	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	OFFSET (FT)	EXISTING	PROPOSED
14+50.00	16.25	16.15	16.31	2.50%	16.08	15.84	16.31	16.20	2.21%	16.08	15.88	16.25	16.28	16.35
15+00.00	16.25	15.88	16.11	2.50%	15.81	15.63	16.10	15.99	1.59%	15.84	15.76	16.25	16.05	16.24
15+50.00	16.25	15.74	15.56	2.50%	15.63	15.50	16.04	15.86	2.27%	15.65	15.54	16.25	15.80	16.01
16+00.00	16.25	15.41	15.43	2.50%	15.42	15.35	15.86	15.70	2.73%	15.42	15.31	16.25	15.65	15.79
16+50.00	16.25	15.26	15.49	2.50%	15.20	15.02	15.62	15.37	1.98%	15.16	15.09	16.25	15.34	15.56
17+00.00	16.25	15.06	15.21	2.50%	14.98	14.73	15.36	15.09	1.96%	14.95	14.81	16.25	15.10	15.28
17+50.00	16.25	14.81	14.97	2.50%	14.87	14.52	15.13	14.57	2.00%	14.81	14.52	19.07	14.91	15.00
18+00.00	17.50	14.70	14.94	2.50%	14.71	14.53	14.95	14.58	1.27%	14.74	14.40	17.63	14.79	14.81
18+50.00	16.25	14.54	14.79	2.50%	14.40	14.32	14.74	14.68	3.22%	14.38	14.22	16.25	14.55	14.69

#### RE-CONSTRUCTION NOTES:

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

Poin	t Table					
Point #	Description					
60011	WM					
60040	WM					
60041	WM					
60042	WM					
60043	WM					
60044	WM					
60045	WM					
60046	WM					

THIS TABLE IS FOR CONSTRUCTION PURPOSES ONLY. THESE ARE NOT TO BE COUNTED FOR QUANTITIES.

> **BID SET** 3/28/2025

Driveway Build Back Table							
	Driveway Distance From Back of						
Address	Sidewalk						
601 M ST.	9.0'						
530 M ST.	6.5"						
529 M ST.	6.0'						
520 M ST.	5.5' W, 4.0' E						
519 M ST.	5.0'						
510 M ST.	10.0'						
509 M ST.	7.0'						

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-B ENGINEERS, II 5190 Neil Road Suite 500 Reno, NV 89502



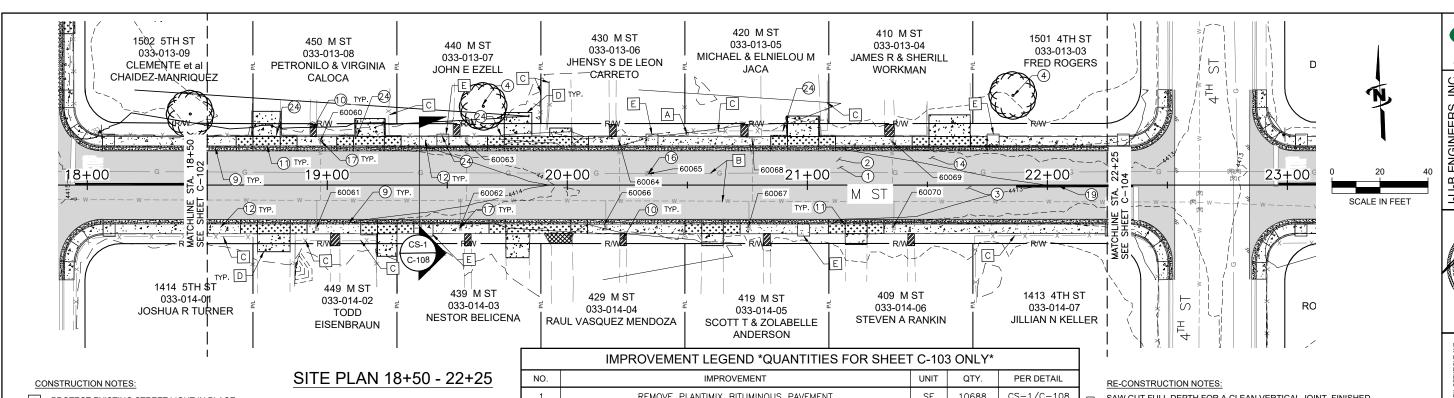
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2025 DRAINAGE & ROADWAY PROJECT M STREET SITE PLAN 14+50 - 18+50

RAWN BY: PSS

ONE INCH =

SHEET NUMBER:



A PROTECT EXISTING STREET LIGHT IN PLACE

- PROTECT EXISTING UTILITY PIPE IN PLACE
- PROTECT EXISTING FENCE IN PLACE
- D MATCH TO EXISTING GRADE
- ADA PASSING SPACES (60" x 60" PAD)

HATCH LEGEND							
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL					
PROPOSED PAVEMENT REHABILITATION		CS-1 C-108					
PROPOSED FULL DEPTH PAVEMENT PATCH		S-115 D-501					
PROPOSED CONCRETE REPLACEMENT SECTION	· · · · · · · · · · · · · · · · · · ·	S-109 D-501 (S-103) D-501					
PROPOSED DRIVEWAY APRON REPLACEMENT	+ + + + + + + + + + + + + + + + + + + +	S-111B D-501					
PROPOSED GRAVEL REPLACEMENT							
PROPOSED PAVER/BRICK REPLACEMENT							
PROPOSED WALKWAY REPLACEMENT		S-103 D-501					
REMOVE & REPLACE MOW STRIP							

	IMPROVEMENT LEGEND QUANTITIES FOR SHEET	I C-10.	JONEI	
NO.	IMPROVEMENT	UNIT	QTY.	PER DETAIL
1	REMOVE PLANTIMIX BITUMINOUS PAVEMENT	SF	10688	CS-1/C-108
2	ROADBED MODIFICATION	SF	10688	CS-1/C-108
3	OVEREXCAVATION OF UNSUITABLE MATERIAL, FURNISH & PLACE TYPE 1 AGGREGATE BASE (CONTINGENT)	CY	17	CS-1/C-108
4	PROVIDE ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST	HR	8	N/A
5	REMOVE AND DISPOSE OF EXISTING TREE	EA	0	N/A
6	GRIND EXISTING TREE STUMP AND DISPOSE OF GRINDINGS	EA	0	N/A
7	REMOVE EXISTING AND INSTALL TYPE 4R DRAINAGE INLET	EA	0	S-204A, S-204B/D-503
8	REMOVE AND REPLACE 15" PVC SDR STORM DRAIN PIPE	LF	0	S-117/D-503
9	REMOVE EXISTING AND CONSTRUCT PCC TYPE I CURB AND GUTTER	LF	768	S-109/D-501
10	REMOVE AND REPLACE RESIDENTIAL WALKWAY	SF	153	S-103/D-501
11	REMOVE EXISTING AND CONSTRUCT PCC RESIDENTIAL DRIVEWAY APRON	SF	2183	S-111B, S-111C/D-501
12	REMOVE EXISTING AND CONSTRUCT PCC SIDEWALK	SF	1967	S-103/D-501
13	REMOVE EXISTING AND CONSTRUCT PCC ADA ACCESSIBLE RAMP	EA	0	S-106A/D-501
14	FURNISH AND INSTALL 4-INCH PLANTMIX BITUMINOUS PAVEMENT	SF	10688	CS-1/C-108
15	FURNISH AND INSTALL FULL DEPTH PAVEMENT PATCH	SF	0	S-115/D-501
16	PROTECT AND ADJUST UTILITY VALVE TO FINISH GRADE	EA	1	10L-9D/D-502
17	PROTECT AND ADJUST METER BOX TO FINISH GRADE	EA	10	10K-2/D-502
18	ABANDON WATER MONITORING WELL	EA	0	D1/D-502
19	INSTALL 4-INCH SOLID DOUBLE YELLOW CENTERLINE STRIPING (TYPE II WATERBORNE),	LF	38	MUTCD 3B.01
20	INSTALL 24-INCH STOP BAR (THERMOPLASTIC)	LF	0	S-411/D-502
21	INSTALL INTERNATIONAL CROSSWALK (THERMOPLASTIC)	LF	0	S-411/D-502
22	INSTALL 8-FOOT STOP LEGENDS (THERMOPLASTIC)	EA	0	MUTCD 3B.20
23	FURNISH AND INSTALL NEW STOP SIGN AND POST, SALVAGE AND RE—INSTALL STREET SIGNS	EA	0	S-401A/D-502
24	REMOVE AND REINSTALL FENCING/GATE	LF	106	N/A
25	REMOVE AND REPLACE PCC MOW STRIP	LF	0	N/A
	DESIGN TABLE M STREET SHEET C 102			

	DESIGN TABLE M STREET SHEET C-103													
	TOP BA	CK OF CUR	B (LEFT)	LIP (	OF GUTTER (	LEFT)	CR	OWN	LIP	OF GUTTER	(RIGHT)	TOP BAG	CK OF CURE	(RIGHT)
	OFFSET (FT)	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	OFFSET (FT)	EXISTING	PROPOSE
18+50.00	16.25	14.54	14.79	2.50%	14.40	14.32	14.74	14.68	3.22%	14.38	14.22	16.25	14.55	14.69
19+00.00	16.25	14.30	14.62	2.50%	14.12	14.15	14.53	14.51	3.06%	14.17	14.07	16.25	14.34	14.54
19+50.00	16.25	14.05	14.44	2.50%	14.93	13.97	14.25	14.33	3.25%	13.92	13.86	16.25	14.14	14.33
20+00.00	16.25	13.65	13.79	2.50%	13.69	13.62	13.98	13.97	2.83%	13.67	13.57	16.25	13.79	13.71
20+50.00	16.25	13.57	13.84	2.50%	13.41	13.37	13.82	13.72	2.45%	13.50	13.37	16.25	13.72	13.84
21+00.00	16.25	13.32	13.13	2.50%	13.25	13.08	13.57	13.43	2.35%	13.27	13.10	16.25	13.42	13.56
21+50.00	16.25	13.08	13.34	2.50%	13.01	12.86	13.36	13.22	1.90%	13.02	12.95	16.25	13.17	12.95
22+00.00	16.25	12.92	13.11	2.50%	12.84	12.64	13.27	13.00	2.36%	12.86	12.66	16.25	13.03	13.13

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

Poin-	t Table
Point #	Description
60060	WM
60061	WM
60062	WM
60063	WM
60064	WM
60065	GV
60066	WM
60067	WM
60068	WM
60069	WM
60070	WM

THIS TABLE IS FOR CONSTRUCTION PURPOSES ONLY. THESE ARE NOT TO BE COUNTED FOR QUANTITIES.

> **BID SET** 3/28/2025

	Driveway Build Back Table					
	Driveway					
	Distance From					
	Back of					
Address	Sidewalk					
450 M ST.	10.5' W, 7.5 E					
449 M ST.	7.5' W, 9.4' E					
440 M ST.	10.0'					
439 M ST.	10.0'					
430 M ST.	3.5'					
429 M ST.	4.0'					
420 M ST.	8.5'					
419 M ST.	5.0'					
410 M ST.	9.0'					
409 M ST.	4.5'					

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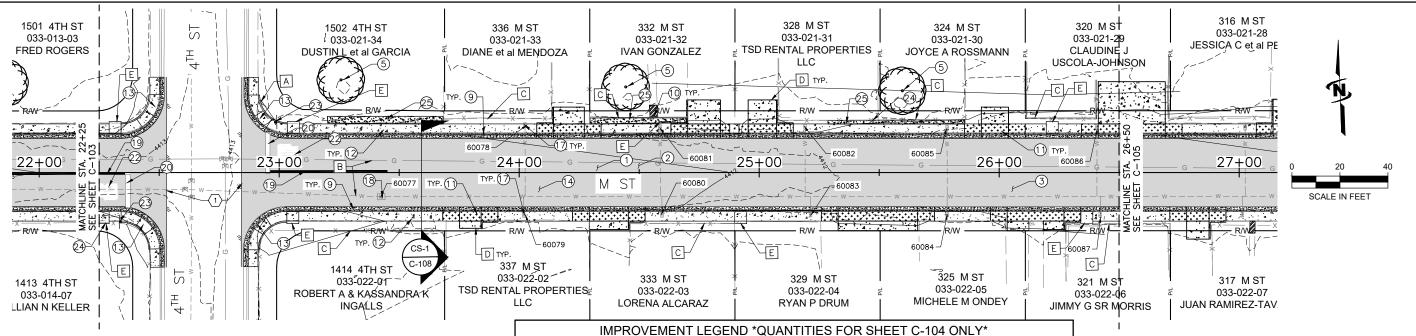
σ III

SITE F 18+50 -

2025 DRAINAGE & ROADWAY PROJECT M STREET

ONE INCH =

SHEET NUMBER:



CONSTRUCTION NOTES:

A PROTECT EXISTING STREET LIGHT IN PLACE

- PROTECT EXISTING UTILITY PIPE IN PLACE
- C PROTECT EXISTING FENCE IN PLACE
- D MATCH TO EXISTING GRADE
- ADA PASSING SPACES (60" x 60" PAD)

# HATCH LECEND

SITE PLAN 22+25 - 26+50

HATCH LEGEND								
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL						
PROPOSED PAVEMENT REHABILITATION		CS-1 C-108						
PROPOSED FULL DEPTH PAVEMENT PATCH		S-115 D-501						
PROPOSED CONCRETE REPLACEMENT SECTION	4 4	S-109 D-501 D-501						
PROPOSED DRIVEWAY APRON REPLACEMENT	+ + + + + + + + + + + + + + + + + + + +	S-111B D-501						
PROPOSED GRAVEL REPLACEMENT								
PROPOSED PAVER/BRICK REPLACEMENT								
PROPOSED WALKWAY REPLACEMENT		S-103 D-501						
REMOVE & REPLACE MOW STRIP								

	IMPROVEMENT LEGEND *QUANTITIES FOR SHEET	C-10 <sup>2</sup>	+ ONLY"	
NO.	IMPROVEMENT	UNIT	QTY.	PER DETAIL
1	REMOVE PLANTIMIX BITUMINOUS PAVEMENT	SF	11446	CS-1/C-108
2	ROADBED MODIFICATION	SF	11446	CS-1/C-108
3	OVEREXCAVATION OF UNSUITABLE MATERIAL, FURNISH & PLACE TYPE 1 AGGREGATE BASE (CONTINGENT)	CY	16	CS-1/C-108
4	PROVIDE ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST	HR	0	N/A
5	REMOVE AND DISPOSE OF EXISTING TREE	EA	3	N/A
6	GRIND EXISTING TREE STUMP AND DISPOSE OF GRINDINGS	EA	0	N/A
7	REMOVE EXISTING AND INSTALL TYPE 4R DRAINAGE INLET	EA	0	S-204A, S-204B/D-503
8	REMOVE AND REPLACE 15" PVC SDR STORM DRAIN PIPE	LF	0	S-117/D-503
9	REMOVE EXISTING AND CONSTRUCT PCC TYPE I CURB AND GUTTER	LF	692	S-109/D-501
10	REMOVE AND REPLACE RESIDENTIAL WALKWAY	SF	16	S-103/D-501
11	REMOVE EXISTING AND CONSTRUCT PCC RESIDENTIAL DRIVEWAY APRON	SF	1654	S-111B, S-111C/D-501
12	REMOVE EXISTING AND CONSTRUCT PCC SIDEWALK	SF	1810	S-103/D-501
13	REMOVE EXISTING AND CONSTRUCT PCC ADA ACCESSIBLE RAMP	EA	4	S-106A/D-501
14	FURNISH AND INSTALL 4-INCH PLANTMIX BITUMINOUS PAVEMENT	SF	11446	CS-1/C-108
15	FURNISH AND INSTALL FULL DEPTH PAVEMENT PATCH	SF	0	S-115/D-501
16	PROTECT AND ADJUST UTILITY VALVE TO FINISH GRADE	EA	0	10L-9D/D-502
17	PROTECT AND ADJUST METER BOX TO FINISH GRADE	EA	10	10K-2/D-502
18	ABANDON WATER MONITORING WELL	EA	1	D1/D-502
19	INSTALL 4—INCH SOLID DOUBLE YELLOW CENTERLINE STRIPING (TYPE II WATERBORNE),	LF	62	MUTCD 3B.01
20	INSTALL 24-INCH STOP BAR (THERMOPLASTIC)	LF	32	S-411/D-502
21	INSTALL INTERNATIONAL CROSSWALK (THERMOPLASTIC)	LF	0	S-411/D-502
22	INSTALL 8-FOOT STOP LEGENDS (THERMOPLASTIC)	EA	2	MUTCD 3B.20
23	FURNISH AND INSTALL NEW STOP SIGN AND POST, SALVAGE AND RE-INSTALL STREET SIGNS	EA	2	S-401A/D-502
24	REMOVE AND REINSTALL FENCING/GATE	LF	92	N/A
25	REMOVE AND REPLACE PCC MOW STRIP	LF	145	N/A

	DESIGN TABLE M STREET SHEET C-104													
	TOP BA	CK OF CUR	B (LEFT)	LIP (	OF GUTTER (	(LEFT)	CR	CROWN LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)			
	OFFSET (FT)	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	OFFSET (FT)	EXISTING	PROPOSEI
22+50.00	29.30	12.79	12.89	1.25%	12.92	12.41	13.10	12.43	1.76%	12.85	12.44	16.25	13.03	13.13
23+00.00	16.25	12.51	12.44	2.50%	12.55	12.29	12.92	12.59	0.26%	12.50	12.55	16.50	12.70	13.00
23+50.00	16.25	12.51	12.59	2.50%	12.37	12.12	12.58	12.48	0.24%	12.32	12.45	16.25	12.91	12.52
24+00.00	16.25	12.25	12.42	2.50%	12.16	11.95	12.53	12.31	0.36%	12.21	12.26	16.25	12.43	12.72
24+50.00	16.25	12.19	12.25	2.50%	12.02	11.78	12.27	12.13	0.47%	12.06	12.07	16.25	12.26	12.38
25+00.00	16.25	11.82	11.66	2.50%	11.85	11.60	12.16	11.96	0.59%	11.82	11.88	16.25	12.06	12.34
25+50.00	16.25	12.11	11.90	2.50%	11.91	11.43	11.94	11.79	0.71%	11.66	11.69	16.25	11.94	11.74
26+00.00	16.25	11.43	11.73	2.50%	11.44	11.26	11.78	11.62	0.82%	11.46	11.50	16.25	11.76	11.97
26+50.00	16.25	11.38	11.14	2.50%	11.30	11.09	11.62	11.44	0.94%	11.25	11.31	16.25	11.47	11.78

#### RE-CONSTRUCTION NOTES:

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

Point Table						
Point #	Description					
60077	WV MONITORING WELL					
60078	WM					
60079	WM					
60080	WM					
60081	WM					
60082	WM					
60083	WM					
60084	WM					
60085	WM					
60086	WM					
60087	WM					

THIS TABLE IS FOR CONSTRUCTION PURPOSES ONLY. THESE ARE NOT TO BE COUNTED FOR QUANTITIES.

# **BID SET**

3/28/2025

Driveway Build Back Table					
Address	Driveway Distance From Back of Sidewalk				
337 M ST.	3.0'				
336 M ST.	7.0'				
333 M ST.	5.0'				
332 M ST.	10.0'				
329 M ST.	2.5'				
328 M ST.	10.0'				
325 M ST.	3.0' W, 4.0' E				
324 M ST.	8.0'				
321 M ST.	3.5'				
320 M ST.	17.6'				

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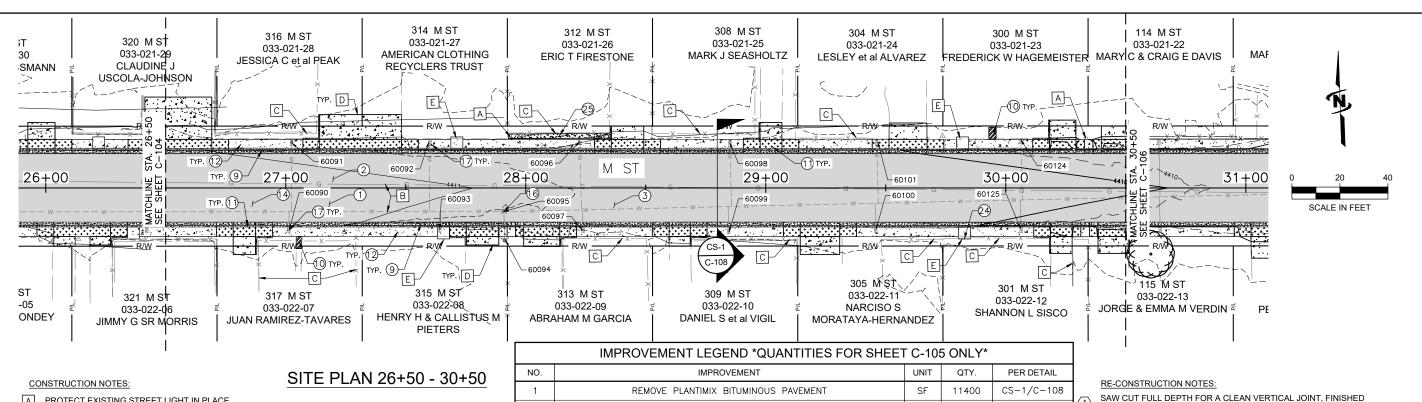
J-U-B ENGINEERS, IN 5190 Neil Road Suite 500 Reno, NV 89502



2025 DRAINAGE & ROADWAY PROJECT M STREET

ONE INCH =

SHEET NUMBER:



- A PROTECT EXISTING STREET LIGHT IN PLACE
- PROTECT EXISTING UTILITY PIPE IN PLACE
- PROTECT EXISTING FENCE IN PLACE
- D MATCH TO EXISTING GRADE
- ADA PASSING SPACES (60" x 60" PAD)

# LIATOLLECEND

<u>HATCH LEGEND</u>									
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL							
PROPOSED PAVEMENT REHABILITATION		CS-1 C-108							
PROPOSED FULL DEPTH PAVEMENT PATCH		S-115 D-501							
PROPOSED CONCRETE REPLACEMENT SECTION	4	S-109 D-501 S-103 D-501							
PROPOSED DRIVEWAY APRON REPLACEMENT	+ + + + + + + + + + + + + + + + + + + +	S-111B D-501							
PROPOSED GRAVEL REPLACEMENT									
PROPOSED PAVER/BRICK REPLACEMENT									
PROPOSED WALKWAY REPLACEMENT		S-103 D-501							
REMOVE & REPLACE MOW STRIP									

	INIT TO VENIENT ELGEND QUANTITIES FOR CITEE!		0.12.			
NO.	IMPROVEMENT	UNIT	QTY.	PER DETAIL		
1	REMOVE PLANTIMIX BITUMINOUS PAVEMENT	SF	11400	CS-1/C-108		
2	ROADBED MODIFICATION	SF	11400	CS-1/C-108		
3	OVEREXCAVATION OF UNSUITABLE MATERIAL, FURNISH & PLACE TYPE 1 AGGREGATE BASE (CONTINGENT)	CY	17	CS-1/C-108		
4	PROVIDE ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST	HR	0	N/A		
5	REMOVE AND DISPOSE OF EXISTING TREE	EA	0	N/A		
6	GRIND EXISTING TREE STUMP AND DISPOSE OF GRINDINGS	EA	0	N/A		
7	REMOVE EXISTING AND INSTALL TYPE 4R DRAINAGE INLET	EA	0	S-204A, S-204B/D-503		
8	REMOVE AND REPLACE 15" PVC SDR STORM DRAIN PIPE	LF	0	S-117/D-503		
9	REMOVE EXISTING AND CONSTRUCT PCC TYPE I CURB AND GUTTER	LF	710	S-109/D-501		
10	REMOVE AND REPLACE RESIDENTIAL WALKWAY	SF	26	S-103/D-501		
11	REMOVE EXISTING AND CONSTRUCT PCC RESIDENTIAL DRIVEWAY APRON	SF	3252	S-111B, S-111C/D-501		
12	REMOVE EXISTING AND CONSTRUCT PCC SIDEWALK	SF	1743	S-103/D-501		
13	REMOVE EXISTING AND CONSTRUCT PCC ADA ACCESSIBLE RAMP	EA	0	S-106A/D-501		
14	FURNISH AND INSTALL 4-INCH PLANTMIX BITUMINOUS PAVEMENT	SF	11400	CS-1/C-108		
15	FURNISH AND INSTALL FULL DEPTH PAVEMENT PATCH	SF	0	S-115/D-501		
16	PROTECT AND ADJUST UTILITY VALVE TO FINISH GRADE	EA	1	10L-9D/D-502		
17	PROTECT AND ADJUST METER BOX TO FINISH GRADE	EA	12	10K-2/D-502		
18	ABANDON WATER MONITORING WELL	EA	0	D1/D-502		
19	INSTALL 4—INCH SOLID DOUBLE YELLOW CENTERLINE STRIPING (TYPE II WATERBORNE),	LF	0	MUTCD 3B.01		
20	INSTALL 24-INCH STOP BAR (THERMOPLASTIC)	LF	0	S-411/D-502		
21	INSTALL INTERNATIONAL CROSSWALK (THERMOPLASTIC)	LF	0	S-411/D-502		
22	INSTALL 8-FOOT STOP LEGENDS (THERMOPLASTIC)	EA	0	MUTCD 3B.20		
23	FURNISH AND INSTALL NEW STOP SIGN AND POST, SALVAGE AND RE-INSTALL STREET SIGNS	EA	0	S-401A/D-502		
24	REMOVE AND REINSTALL FENCING/GATE	LF	5	N/A		
25	REMOVE AND REPLACE PCC MOW STRIP	LF	43	N/A		
DESIGN TABLE M STREET SHEET C-105						

						DE	SIGN TABLE	M STREET	SHEET C-105						
		TOP BA	CK OF CUR	B (LEFT)	LIP (	OF GUTTER (	LEFT)	CR	OWN	LIP	OF GUTTER	R (RIGHT)	TOP BAG	CK OF CURE	(RIGHT)
		OFFSET (FT)	<b>EXISTING</b>	PROPOSED	SLOPE	EXISTING	PROPOSED	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	OFFSET (FT)	EXISTING	PROPOSED
í	26+50.00	16.25	11.38	11.14	2.50%	11.30	11.09	11.62	11.44	0.94%	11.25	11.31	16.25	11.47	11.78
í	27+00.00	16.25	11.15	11.39	2.50%	11.11	10.91	11.52	11.27	1.05%	11.14	11.12	16.25	11.34	11.59
í	27+50.00	16.25	11.05	10.90	2.50%	10.97	10.74	11.37	11.10	1.17%	10.96	10.93	16.25	11.21	11.40
í	28+00.00	16.25	10.89	11.04	2.50%	10.81	10.57	11.10	10.92	1.29%	10.84	10.74	16.25	10.91	10.80
2	28+50.00	16.25	10.74	10.50	2.50%	10.63	10.40	10.91	10.75	1.40%	10.60	10.55	16.25	10.83	11.02
2	29+00.00	16.25	10.44	10.28	2.50%	10.37	10.22	10.68	10.58	1.52%	10.44	10.36	16.25	10.63	10.83
í	29+50.00	16.25	10.39	10.19	2.50%	10.22	10.05	10.51	10.41	1.65%	10.22	10.17	16.25	10.27	10.64
3	30+00.00	16.25	10.13	10.35	2.50%	10.06	9.88	10.41	10.23	1.75%	9.99	9.98	16.25	10.19	10.46
3	30+50.00	16.25	9.87	9.88	2.50%	9.85	9.70	10.16	10.06	1.87%	9.85	9.79	16.25	9.92	9.85

SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE.

	Poin	t Table
Poi	nt #	Description
60	090	WM
60	091	WM
60	092	WM
60	093	WM
60	094	FH
60	095	WV
60	096	WM
60	097	WM
60	098	WM
60	099	WM
60	100	WM
60	101	WM
60	124	WM
60	125	WM

THIS TABLE IS FOR CONSTRUCTION PURPOSES ONLY. THESE ARE NOT TO BE COUNTED FOR QUANTITIES.

# **BID SET**

3/28/2025

Driveway Bu	ıild Back Table
•	Driveway Distance From Back of
Address	Sidewalk
317 M ST.	7.5'
316 M ST.	10.3'
315 M ST.	3.5'
314 M ST.	10.3'
313 M ST.	4.1'
312 M ST.	5.5'
309 M ST.	4.0'
308 M ST.	7.0'
305 M ST.	7.5'
304 M ST.	6.8'
301 M ST.	7.0'
300 M ST.	8.0'
115 M ST.	7.0'
114 M ST.	5.5'

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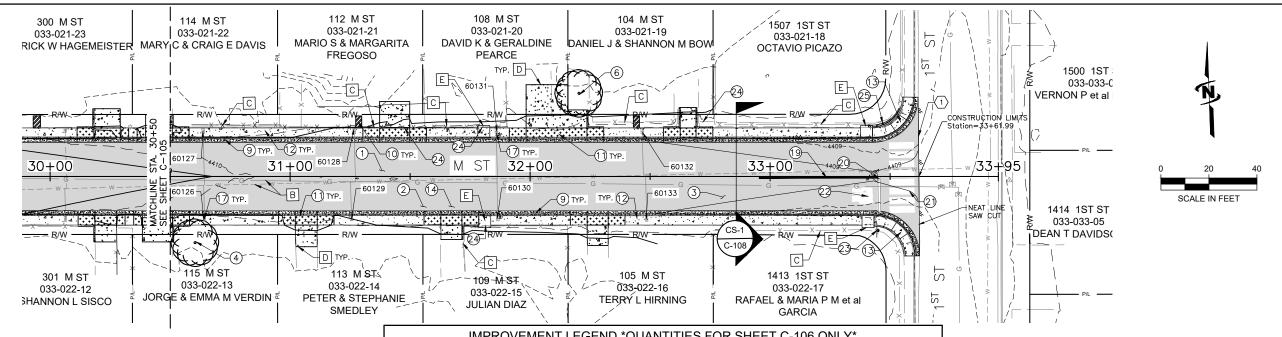


PLAN - 30+50 SITE F 26+50 -

2025 DRAINAGE & ROADWAY PROJECT M STREET

AT FULL SIZE, IF NOT OF

SHEET NUMBER: C-105



#### CONSTRUCTION NOTES:

A PROTECT EXISTING STREET LIGHT IN PLACE

PROTECT EXISTING UTILITY PIPE IN PLACE

C PROTECT EXISTING FENCE IN PLACE

D MATCH TO EXISTING GRADE

ADA PASSING SPACES (60" x 60" PAD)

SITE PLAN 30+50 - 33+95

HATCH LEGEND						
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL				
PROPOSED PAVEMENT REHABILITATION		CS-1 C-108				
PROPOSED FULL DEPTH PAVEMENT PATCH		S-115 D-501				
PROPOSED CONCRETE REPLACEMENT SECTION	4 4 4	S-109 D-501 S-103 D-501				
PROPOSED DRIVEWAY APRON REPLACEMENT	+ + + + + + + + + + + + + + + + + + + +	S-111B D-501				
PROPOSED GRAVEL REPLACEMENT						
PROPOSED PAVER/BRICK REPLACEMENT						
PROPOSED WALKWAY REPLACEMENT		S-103 D-501				
REMOVE & REPLACE MOW STRIP						

	IMPROVEMENT LEGEND *QUANTITIES FOR SHEET C-106 ONLY*					
NO.	IMPROVEMENT	UNIT	QTY.	PER DETAIL		
1	REMOVE PLANTIMIX BITUMINOUS PAVEMENT	SF	9048	CS-1/C-108		
2	ROADBED MODIFICATION	SF	9048	CS-1/C-108		
3	OVEREXCAVATION OF UNSUITABLE MATERIAL, FURNISH & PLACE TYPE 1 AGGREGATE BASE (CONTINGENT)	CY	16	CS-1/C-108		
4	PROVIDE ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST	HR	4	N/A		
5	REMOVE AND DISPOSE OF EXISTING TREE	EA	0	N/A		
6	GRIND EXISTING TREE STUMP AND DISPOSE OF GRINDINGS	EA	1	N/A		
7	REMOVE EXISTING AND INSTALL TYPE 4R DRAINAGE INLET	EA	0	S-204A, S-204B/D-503		
8	REMOVE AND REPLACE 15" PVC SDR STORM DRAIN PIPE	LF	0	S-117/D-503		
9	REMOVE EXISTING AND CONSTRUCT PCC TYPE I CURB AND GUTTER	LF	571	S-109/D-501		
10	REMOVE AND REPLACE RESIDENTIAL WALKWAY	SF	40	S-103/D-501		
11	REMOVE EXISTING AND CONSTRUCT PCC RESIDENTIAL DRIVEWAY APRON	SF	1397	S-111B, S-111C/D-501		
12	REMOVE EXISTING AND CONSTRUCT PCC SIDEWALK	SF	1662	S-103/D-501		
13	REMOVE EXISTING AND CONSTRUCT PCC ADA ACCESSIBLE RAMP	EA	2	S-106A/D-501		
14	FURNISH AND INSTALL 4-INCH PLANTMIX BITUMINOUS PAVEMENT	SF	9048	CS-1/C-108		
15	FURNISH AND INSTALL FULL DEPTH PAVEMENT PATCH	SF	0	S-115/D-501		
16	PROTECT AND ADJUST UTILITY VALVE TO FINISH GRADE	EA	0	10L-9D/D-502		
17	PROTECT AND ADJUST METER BOX TO FINISH GRADE	EA	8	10K-2/D-502		
18	ABANDON WATER MONITORING WELL	EA	0	D1/D-502		
19	INSTALL 4-INCH SOLID DOUBLE YELLOW CENTERLINE STRIPING (TYPE II WATERBORNE),	LF	50	MUTCD 3B.01		
20	INSTALL 24-INCH STOP BAR (THERMOPLASTIC)	LF	14	S-411/D-502		
21	INSTALL INTERNATIONAL CROSSWALK (THERMOPLASTIC)	LF	30	S-411/D-502		
22	INSTALL 8-FOOT STOP LEGENDS (THERMOPLASTIC)	EA	1	MUTCD 3B.20		
23	FURNISH AND INSTALL NEW STOP SIGN AND POST, SALVAGE AND RE-INSTALL STREET SIGNS	EA	1	S-401A/D-502		
24	REMOVE AND REINSTALL FENCING/GATE	LF	149	N/A		
25	REMOVE AND REPLACE PCC MOW STRIP	LF	16	N/A		

	DESIGN TABLE M STREET SHEET C-106													
	TOP BA	CK OF CUR	B (LEFT)	LIP (	of Gutter (	LEFT)	CR	OWN	LIP	OF GUTTER	(RIGHT)	TOP BAG	CK OF CURE	(RIGHT)
	OFFSET (FT)	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	EXISTING	PROPOSED	SLOPE	EXISTING	PROPOSED	OFFSET (FT)	EXISTING	PROPOSED
30+50.00	16.25	9.87	9.88	2.50%	9.85	9.70	10.16	10.06	1.87%	9.85	9.79	16.25	9.92	9.85
31+00.00	16.25	9.80	10.00	2.50%	9.68	9.53	9.96	9.89	1.99%	9.65	9.60	16.25	9.88	9.79
31+50.00	16.25	9.54	9.42	2.50%	9.52	9.36	9.97	9.71	2.10%	9.56	9.42	16.25	9.71	9.88
32+00.00	16.25	9.40	9.24	2.50%	9.39	9.19	9.94	9.54	2.22%	9.38	9.23	16.25	9.54	9.70
32+50.00	16.25	9.29	9.49	2.50%	9.22	9.01	9.74	9.37	2.33%	9.23	9.04	16.25	9.33	9.51
33+00.00	16.25	9.14	9.31	2.50%	9.04	8.84	9.48	9.20	2.45%	9.02	8.85	16.25	9.08	9.32
33+50.00	16.25	9.14	9.31	2.75%	8.86	8.72	9.26	9.11	2.85%	8.78	8.70	16.25	8.91	9.12
33+61.99	16.25	8.96	8.72	1.52%	8.98	8.98	9.20	9.20	1.62%	8.97	8.97	16.25	8.92	8.79

#### RE-CONSTRUCTION NOTES:

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

Poin	Point Table				
Point #	Description				
60126	WM				
60127	WM				
60128	WM				
60129	WM				
60130	WM				
60131	WM				
60132	WM				
60133	WM				

THIS TABLE IS FOR CONSTRUCTION PURPOSES ONLY. THESE ARE NOT TO BE COUNTED FOR QUANTITIES.

**BID SET** 

3/28/2025

Driveway Build Back Table				
A.I.I.	Driveway Distance From Back of Sidewalk			
Address 113 M ST.	9.0'			
112 M ST.	11.0'			
109 M ST.	6.0'			
108 M ST.	18.0'			
104 M ST.	7.5' W, 8.5' E			
105 M ST.	8.5'			

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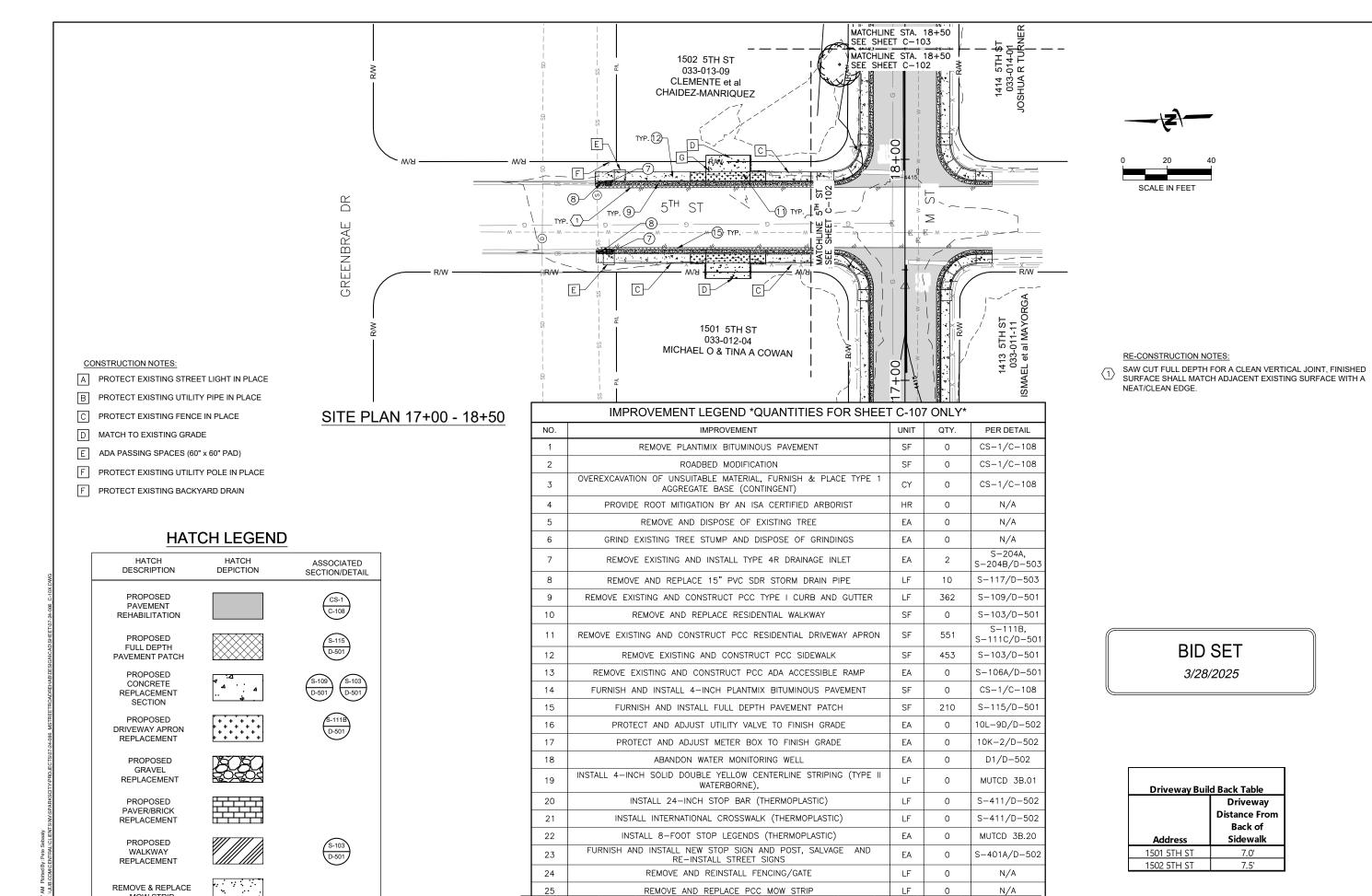


SITE PLAN 30+50 - 33+95

2025 DRAINAGE & ROADWAY PROJECT M STREET

ONE INCH AT FULL SIZE, IF NOT ONI

SHEET NUMBER:



TOP BACK OF CURB (LEET)

14.66

OFFSET (FT) FXISTING PROPOSED

14.94

14.51

15.01

14.51

2.41%

**DESIGN TABLE M STREET SHEET C-107** 

14.54

14.44

1.87%

2.05%

LIP OF GUTTERT (RIGHT)

SLOPE EXISTING PROPOSED SLOPE EXISTING PROPOSED OFFSET (FT) EXISTING PROPOSED

14.58

14.63

14.65

14.63

LIP OF GUTTER (LEFT)

14.66

14 44

TOP BACK OF CURB (RIGHT)

14.65

14.66

14.66 14.83

MOW STRIP

(JUB)

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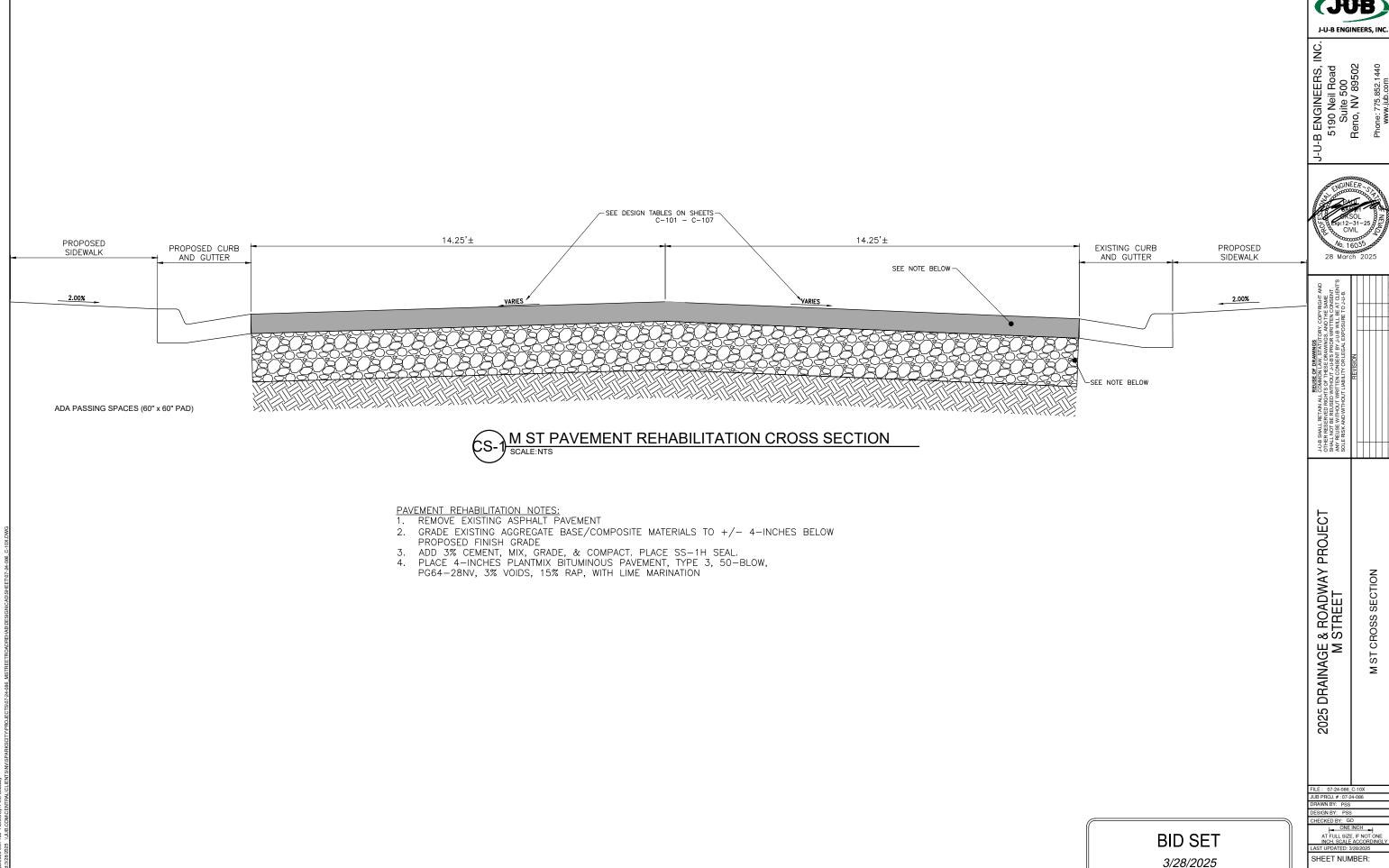
TUGINEER 55 TO THE TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TO

JUB SHALL RETAIN ALL COMMON LAW, STATIORY, COPYRIGHT AND OTHER RESERVED ROTHS OF THESE DEPAININGS, AND THE SAME SHALL NOT BE RELUSED WITHOUT JUBS PRIOR WRITTEN CONSENT ANY REUSE WITHOUT JUBS PRIOR WRITTEN CONSENT BY JUB WILL BE AT CLIENT'S SOLE RISK AND WITHOUT WRITTEN CONSENT BY JUB WILL BE AT CLIENT'S HOLE OF THE SAME SHALL SHOOL SHALL SHOULD SHE TO JULE. HEVISION HEVEL SHOWN THE SAME SHOWN

2025 DRAINAGE & ROADWAY PROJECT M STREET

> 07-24-086\_C-10X ROJ. #:07-24-086 N BY: PSS N BY: PSS KED BY: GO

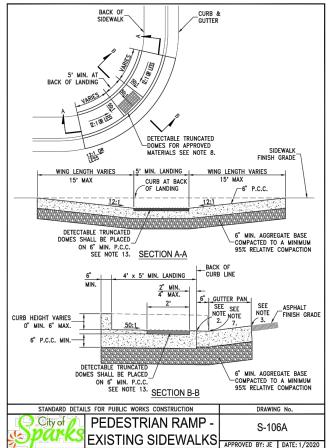
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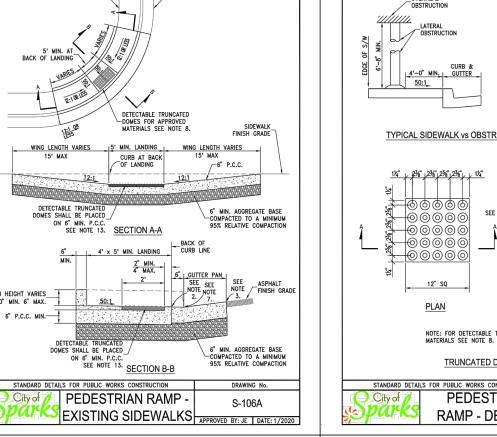


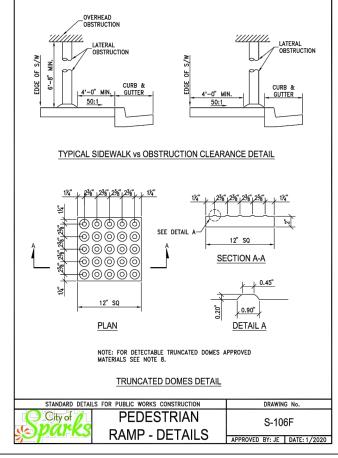
SHEET NUMBER: C-108

- . 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 PATIO 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
- AGGREGATE BASE MATERIAL LINDER SIDEWALKS SHALL BE TYPE 2. CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL
- SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. WITH 60" PASSING SPACE EVERY 200' ON RESIDENTIAL
- . WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC, AS ADOTED BY CITY COUNCIL.
- ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW SIDEWALK, DOWEL INTO EXISTING ADJACENT CONCRETE SIDEWALK WITH A MINIMUM OF TWO (2) No. 4
  REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
- SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.
- . TUNNELING AND/OR BORING IS NOT ALLOWED.









FOR ALL STREETS, SEE NOTE 3.
TRENCH WIDTH PLUS 24" EACH SIDE OR

WALLS ?

SAW CUT EDGE PARALLEL OR

PAVEMENT PATCH DEPTH TO MATCH

CONTIGUOUS PAVEMENT BUT NOT

(4" RESIDENTIAL)

(5" COLLECTORS & INDUSTRIALS)

(6" ARTERIALS)

MAX 8" ON ALL STREETS

IFSS THAN

\_TACK COAT ALL EDGES

EXISTING BASE

BASE DEPTH TO MATCH EXISTIN BUT NOT LESS THAN

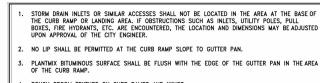
(8" COLLECTORS & INDUSTRIALS

-(6" RESIDENTIAL)

(12" ARTERIALS)

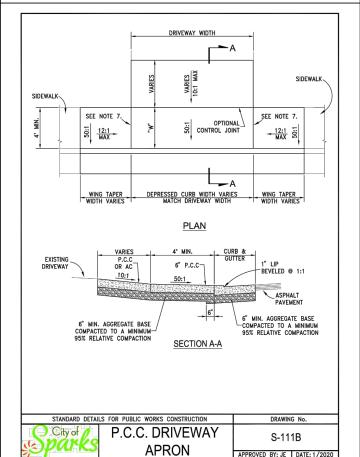
AGGREGATE BASE COMPACTED

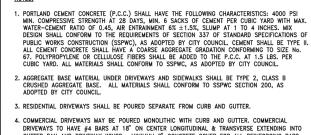
EXISTING PAVEMENT



- 4. ROUGH BROOM TEXTURE ON CURB RAMPS AND WINGS.
- 5. DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE PLACED ON MIN. SIX (6") INCHES OF P.C.C
- 6. 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", "ADA SOLUTIONS", AND "ACCESS TILE". DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMPRUN (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITION, OR TURNING SPACE DETECTABLE WARNING SHALL BE CONSTRUCTED PER MANUFACTURER'S INSTALLATION GUIDELINES AND CONFORM TO ADAAG
- . CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES
- 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
- 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 ADDEED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD HATERIALS SHALL COMPORT TO, SSPWC A RADORTED BY CITY COUNCIL 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 HORIZONTAL DISTANCE 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.







- COMMERCIAL DIGIVEWAYS MAY BE YOURED MONDLITHIC WITH CUBE AND GUTIEK. COMMERCIAL DRIVEWAYS TO HAVE #4 BARS AT 18" ON CENTER LONGITUDINAL & TRANSVERSE EXTENDING INTO GUTTER PAN AND DRIVEWAY WINGS. MINIMUM 2" CONCRETE COVER FOR ALL REINFORCING BARS. WHEN COMMERCIAL DRIVEWAY APPROACH AND CURB & GUTTER IS POURED SEPARATELY, IT SHALL BE REQUIRED FOR EACH REINFORCING BAR TO BE DOWELED INTO ADJACENT CURB & GUTTER. DOWELS SHALL #4 REBAR, PENETRATE INTO CURB & GUTTER MINIMUM OF 6", SPACED AT 18" ON CENTER AND BE SECURELY TIED TO THE DRIVEWAY APPROACH REINFORCING.
- 5. IF JOINT EXISTS WITHIN 4 FEET OF DRIVEWAY, REMOVE SIDEWALK AND CURB AND GUTTER TO THA
- 6. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES. DOWEL INTO EXISTING ADJACENT CONCRETE DRIVEWAY APPROACH OR SIDEWALK WITH (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM
- WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND IN ACCORDANCE WITH SECTION 312 OF THE SSPWC, AS ADOPTED BY CITY COUNCIL.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

City of 🖊

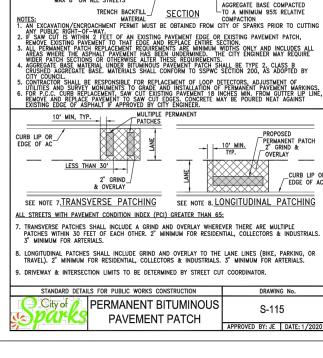
NOTES - P.C.C.

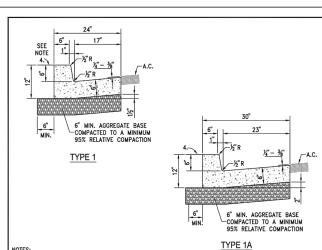
DRIVEWAY APRON APPROVED BY: JE | DATE: 1/20

8. DETAIL S-111A SHALL NOT BE USED FOR NEW CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

DRAWING No.

S-111C





- 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 ENTENJAIMENT 6% 4.15%, 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 COARSA AGGREGATE GRADATION COMFORMING 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
- AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200. AS ADOPTED BY CITY
- . WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET AND LOCATED ON THE BACK, TOP AND FACE OF
- CURB & GUTTER SECTIONS SHALL BE PLACED SEPARATELY FROM SIDEWALK SECTIONS. WHEN SIDEWALK IS NOT REQUIRED DIRECTLY BEHIND THE CURB. BACKFILL TO TOP OF CURB FOR A HORIZONTAL DISTANCE OF 12" FROM BACK FACE OF CURB AND COMPACT TO 90% RELATIVE COMPACTION.
- 5. FOR REPLACEMENT OF EXISTING CURB AND GUTTER, MATCH EXISTING TYPE.

STANDARD DETAIL:	S FOR PUBLIC WORKS CONSTRUCTION	DRAWIN	G No.
City of /	P.C.C.	S-10	9
SE) DUCKS	CURB & GUTTER		
/)_/	COND & GOTTEN	APPROVED BY: JE	DATE: 1/2020
	·		

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-B ENGINEERS, IN 5190 Neil Road Suite 500 Reno, NV 89502 Phone: 775.852.1 www.jub.com

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**PROJECT** ROADWAY I യ ഗ DRAINAGE 8

2025

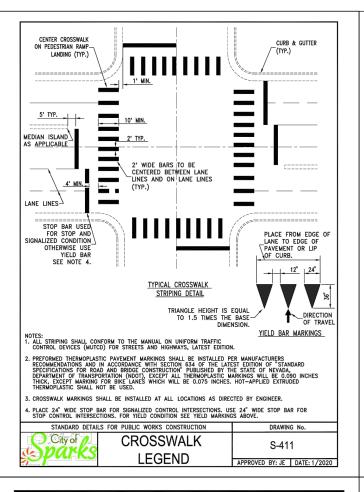
IB PROJ. #:07-24-08 RAWN BY: PSS

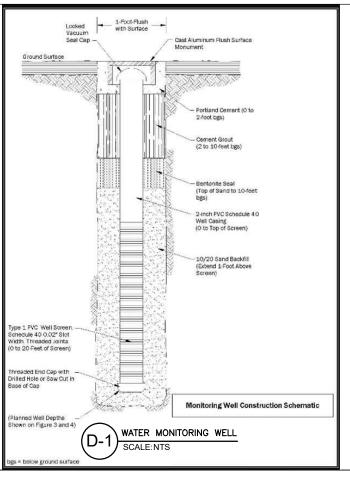
ECKED BY: GO AT FULL SIZE, IF NOT ON

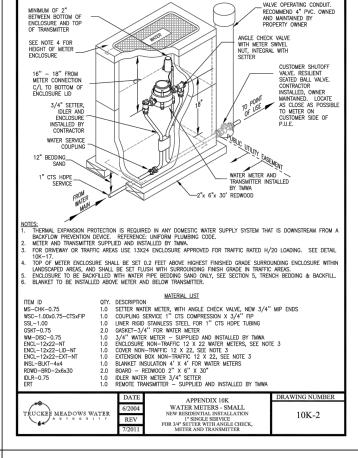
AST UPDATED: 2/12/202 SHEET NUMBER:

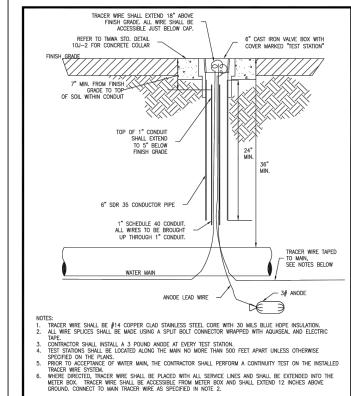
SIGN BY: PSS

D-501





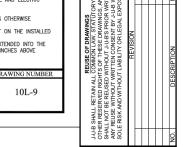




APPENDIX 10L MISCELLANEOUS WATER DETAILS

TRUCKEE MEADOWS WATER

REV

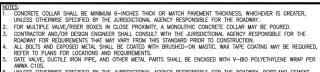


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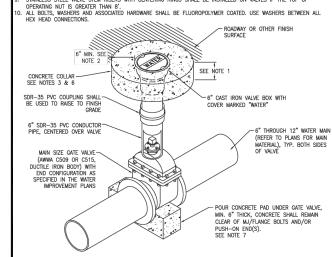
%. 1603<sup>1</sup>



AWWA CIUS. UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL AGENCY RESPONSIBLE FOR THE ROADWAY, PORTLAND CEMENT OCNORETE (F.C.), FOR CONFERE COLLAR SHALLAWE THE FOLLOWING CHARACTERISTICS: 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PAT COLO YARD WITH A MAXIMUM WATER/CEMENT AT 60 FOR AS IR ENTRANDED AS AS TO FEED AT THE COLO YARDS AS CONCRETE MIX IS NOT

ACCEPTABLE: AND CONCRETE MINE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI AFTER 28 DAYS. BAG CONCRETE MIX IS NOT ACCEPTABLE.

NORMALLY CLOSED VALVES SHALL HAVE A DEBRIS CAP INSTALLED WITH A TAG NOTING "NORMALLY CLOSED VALVE". TAG TO BE SUPPLIED BY TAMM, INSPECTOR. STAINLESS STEEL VALVE STEM RISERS WITH CENTERING RINGS SHALL BE INSTALLED ON VALVES IF THE TOP OF



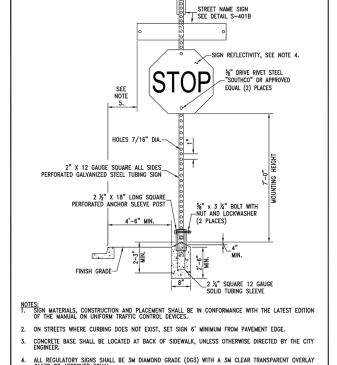
TRUCKEE MEADOWS WATER

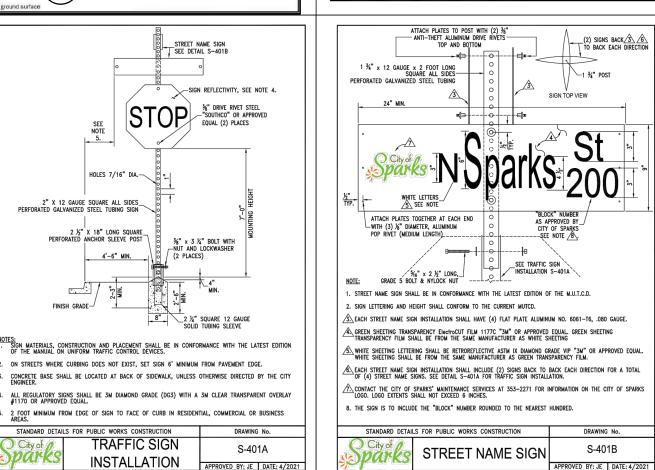
REV

APPENDIX 10J DISTRIBUTION VLAVE INSTALLATION

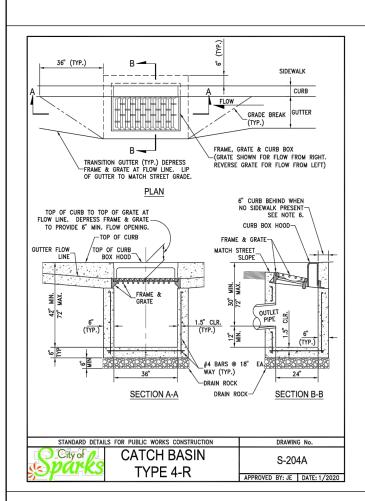
IN-LINE GATE VALVE

10J-2





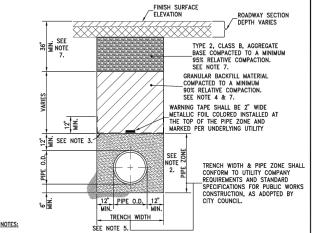




#### NOTES:

- 1. P.C.C CURB AND GUTTER TRANSITION SHALL BE PORTLAND CEMENT CONCRETE (P.C.C.) AND 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 68 4.15.%, 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 ADDE TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- 2. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" MINIMUM CLEAR COVER.
- CONCRETE STRUCTURE MAY BE A CAST—IN-PLACE CONCRETE UNIT UPON APPROVAL OF THE CITY ENGINEER. BASE OF CAST—IN-PLACE CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
- 4. FRAME, GRATE AND CURB BOX HOOD ASSEMBLY SHALL BE D&L I-3519 WITH TYPE L "VANE FRAME, ORATE AND CORE BOX MOON ASSEMBLY STALL BE UNSTALLED WITH PROPER FLOW DIRECTION. EACH CATCH BASIN SHALL BE CAST WITH A FISH IMAGE AND THE WORDS "NO DUMPING! DRAINS TO RIVERS" IN THE TOP OF EACH CURB HOOD.
- TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6" MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B-B).
- 6. WHEN SIDEWALK IS PRESENT CONCRETE BEHIND CURB BOX SHALL BE THICKENED TO THE FULL DEPTH OF THE CURB BOX. IF NO SIDEWALK IS PRESENT, POUR 6" CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM INTO BOX.
- ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.
- 8. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT WITH MINIMAL
- CATCH BASIN SHALL NOT BE PLACED WITHIN THE RADIUS OF THE CURB UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

STANDARD DETAIL	LS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
City of //	NOTES - CATCH	S-204B
parks	BASIN TYPE 4-R	ADDROVED BY IF   DATE 1 /2020



- 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 ADOPTED BY CITY COL ADOPTED BY CITY COUNCIL.
- CLASS C BEDDING REQUIRES INSTALLATION OF GEOTEXTILE FABRIC BETWEEN PIPE ZONE AND BACKFILL MATERIAL. GEOTEXTILE FABRIC SHALL BE MIRAFI 180N OR APPROVED EQUAL.
- ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
- EXISTING PIPE TO BE ARANDONED SHALL BE GROUT FILLED OR COMPLETELY REMOVED.
- MINIMUM BACKFILL DEPTH REQUIREMENT IS FOR TRENCHING IN EXISTING PAVED STREETS. TRENCHING FOR <u>NEW DEVELOPMENT</u> 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.

STANDARD	DETAILS FO	R PUBLIC WORKS CONSTRUCTION	DRAWING No.
City of	l.	TRENCH	S-117
spar	S EX	CAVATION/BACKFILL	APPROVED BY: JE   DATE: 1/2020

J-U-B ENGINEERS, INC.

-B ENGINEERS, IN 5190 Neil Road Suite 500 Reno, NV 89502

Phone: 775.852.1 www.jub.com N-B

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

& ROADWAY PROJECT STREET DRAINAGE 8

DRAWN BY: PSS DESIGN BY: PSS

2025

HECKED BY: GO AT FULL SIZE, IF NOT ON LAST UPDATED: 2/12/202

SHEET NUMBER:

D-503