

# CITY OF SPARKS

## 2023 DRAINAGE AND ROADWAY IMPROVEMENT PROJECT - 5TH, 6TH, 7TH & G STREETS

5TH ST. & 7TH ST., FROM G ST. TO H ST.

6TH ST. , FROM PRATER WAY TO H ST.

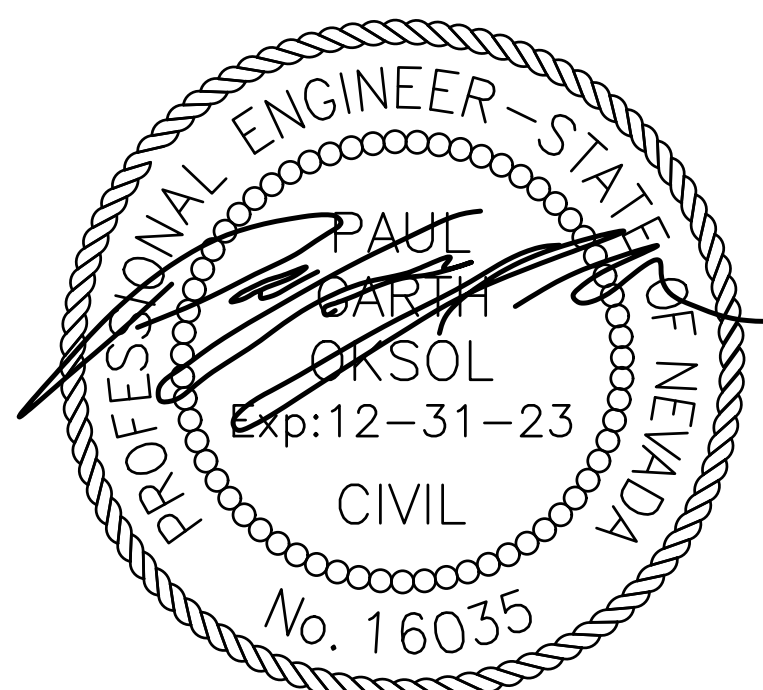
G ST., FROM 7TH ST. TO 4TH ST.

BID #22/23-013, PWP #WA-2023-102

November 2022

100% PLANS

PREPARED & SUBMITTED BY:




17 NOVEMBER 2022

GARTH OKSOL, P.E. PROJECT ENGINEER DATE



**CITY OF SPARKS OFFICIALS:**

ED LAWSON	MAYOR
DONALD ABBOTT	COUNCIL MEMBER WARD 1
DIAN VANDERWELL	COUNCIL MEMBER WARD 2
PAUL ANDERSON	COUNCIL MEMBER WARD 3
CHARLENE BYBEE	COUNCIL MEMBER WARD 4
KRISTOPHER DAHIR	COUNCIL MEMBER WARD 5
NEIL C. KRUTZ	CITY MANAGER

APPROVED BY:  DATE: 11-17-2022  
 JON R. ERICSON, P.E., P.T.O.E. CITY ENGINEER

PROJECT LOCATION MAP



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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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PROJECT No. - 49-21-099



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

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**THE LANGDON GROUP**



**GATEWAY MAPPING INC.**

J-U-B FAMILY OF COMPANIES

LAST UPDATED: 11/16/2022

DRAWING: G-001

SHEET: 01 OF 18

## 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 EDITION).
- 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.
- 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 EROSION.
- 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.
- 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.
- 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.
- SPARKS MUNICIPAL CODE 20.04.005.D RESTRICTS CONSTRUCTION HOURS TO 5:00 A.M. UNTIL 7:00 P.M., MONDAY THROUGH FRIDAY AND 8:00 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 PROJECT 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.

- ALL DIMENSIONS ARE TO FRONT FACE OF CURB (FFC) UNLESS NOTED OTHERWISE.
- 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.
- NO MATERIALS OF ANY KIND SHALL BE STOCKPILED OR CONSTRUCTION EQUIPMENT PARKED ON CONCRETE OR ASPHALT SURFACES UNLESS APPROVED BY THE CITY PROJECT COORDINATOR.
- CONSTRUCTION OF STREET IMPROVEMENTS MUST ALLOW FOR THE PERPETUATION OF ALL EXISTING LEGAL ACCESSES AND EXISTING DRIVEWAYS.
- 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.
- 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.
- 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.
- RECENT UTILITY WORK INCLUDES:
  - NV ENERGY 7TH STREET GAS MAIN REPLACEMENT
  - TMWA 5TH, 6TH, 7TH, AND G 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.
- 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.)

LONNIE J. JOHNSON, P.E. OR GARTH OKSOL, P.E. 775-852-1440 office  
 J-U-B OFFICE - RENO, NV  
 5190 Neil Rd. Ste. 500  
 Reno, NV 89502

TRANSPORTATION MANAGER - (CITY OF SPARKS)

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



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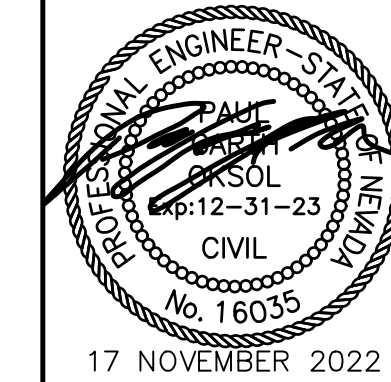
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2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST

GENERAL NOTES

FILE: 49-21-099 G-101X  
 JUB PROJ. #: ---  
 DRAWN BY: ###  
 DESIGN BY: ##  
 CHECKED BY: ##  
 ONE INCH  
 AT FULL SIZE. IF NOT ONE  
 INCH, SCALE ACCORDINGLY  
 LAST UPDATED: 11/17/2022  
 DRAWING:  
 G-002  
 SHEET: 02 OF 18



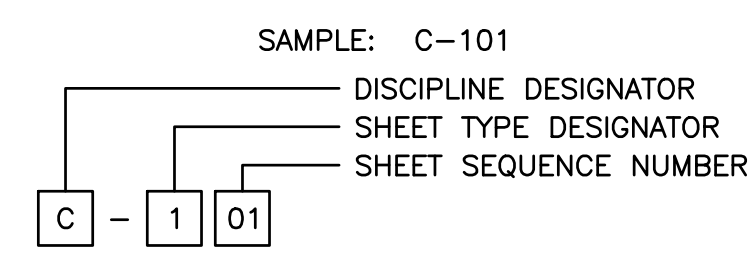
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**2022 DRAINAGE & ROADWAY PROJECT**  
**5TH, 6TH, 7TH & G ST**  
**LEGEND & GENERAL PROJECT INFORMATION**

FILE: 49-21-099 G-101X
JUB PROJ #: ---
DRAWN BY: ###
DESIGN BY: ###
CHECKED BY: ###
SCALE: ONE INCH = AT FULL SIZE. IF NOT ONE INCH, SCALE ACCORDINGLY.
LAST UPDATED: 11/17/2022
DRAWING: G-003
SHEET: 03 OF 18

### SHEET NUMBERING

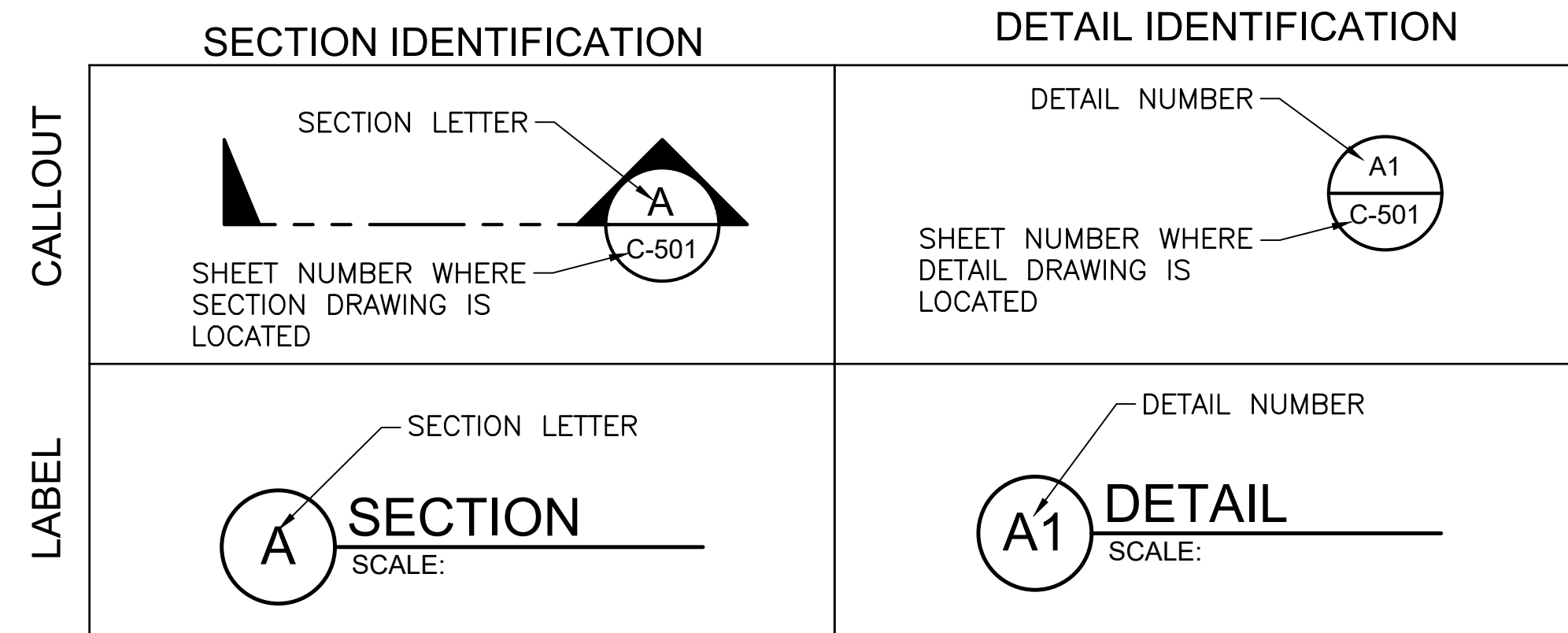


DISCIPLINE DESIGNATORS		
DISCIPLINE	DESIGNATOR	DESCRIPTION
GENERAL	G	ALL GENERAL
	GI	GENERAL INFORMATION
	GC	GENERAL CONTRACTUAL
	GR	GENERAL RESOURCE
SURVEY/MAPPING	V	ALL SURVEY
GEOTECHNICAL	B	ALL GEOTECHNICAL
CIVIL	C	ALL CIVIL
LANDSCAPE	L	ALL LANDSCAPE
STRUCTURAL	S	ALL STRUCTURAL
ARCHITECTURAL	A	ALL ARCHITECTURE
EQUIPMENT	Q	ALL EQUIPMENT
MECHANICAL	M	ALL MECHANICAL
ELECTRICAL	E	ALL ELECTRICAL
PLUMBING	P	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.



### LINE LEGEND

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
PROPERTY LINE	—————	—— P/L ———
RIGHT OF WAY	—————	—— R/W ———
ROAD CENTERLINE	—————	—— ———
WATER MAIN	—————	—— W ———
WATER SERVICE	—————	—— WS ——— WS ———
SANITARY SEWER	—————	—— SS ———
STORM DRAIN	—————	—— SD ———
OVERHEAD POWER	—————	—— OHP ———
NATURAL GAS	—————	—— G ———
NATURAL GAS SERVICE	—————	—— G ——— G ———
FENCE	—————	—— X ———
WOOD FENCE	—————	—— ———
MAJOR CONTOUR	—————	—— ———
MINOR CONTOUR	—————	—— ———
UTILITY ABANDONED IN PLACE	—————	—— ———
CURB & GUTTER AND SIDEWALK	—————	—— ———

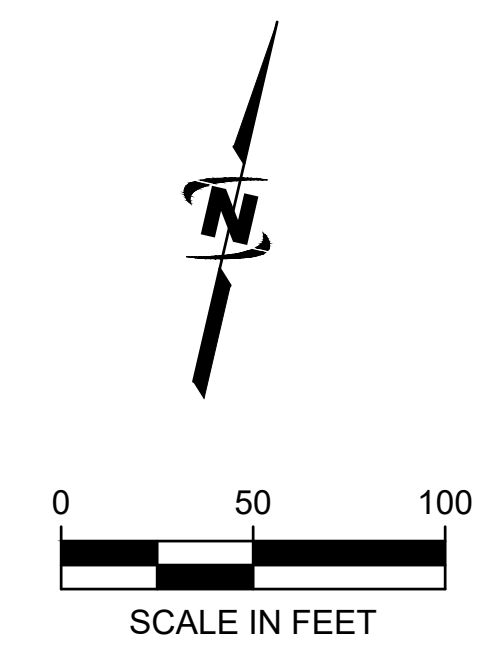
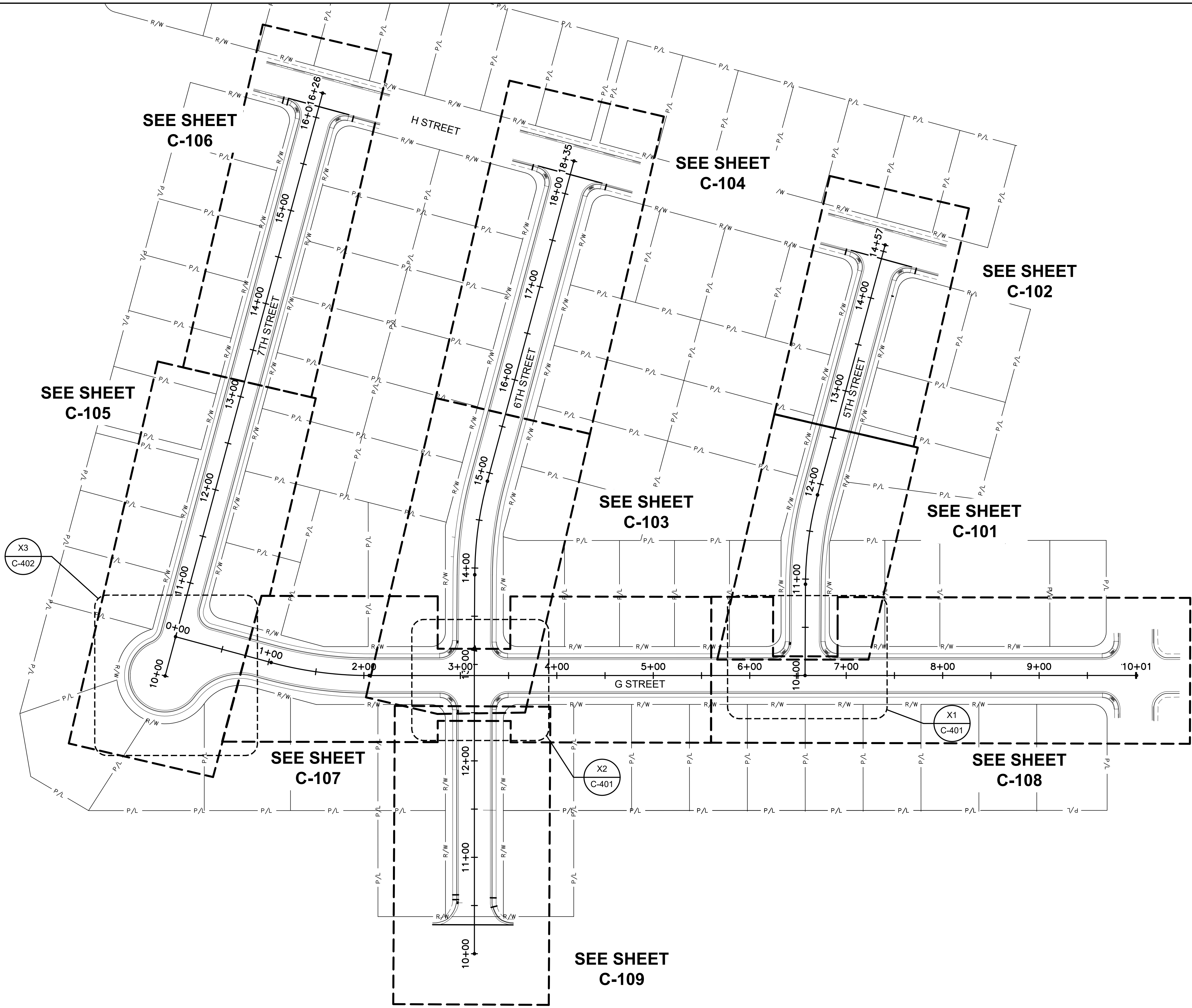
### SYMBOL LEGEND

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL	SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
CATCH BASIN			GAS VALVE		
SD MANHOLE			POWER POLE		
SS MANHOLE			STREET LIGHT		
FIRE HYDRANT			GUY WIRE		
WATER METER			TEST HOLE		
WATER VALVE			SIGN		

### HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		S-103 C-501, S-111B C-501, S-112A C-502

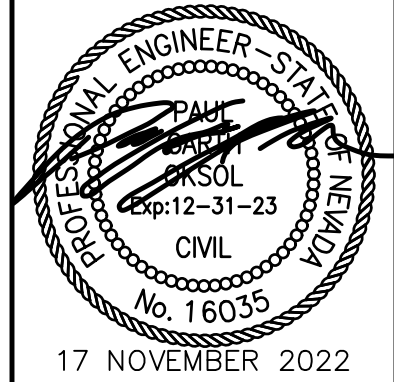
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 Date Created: 11/15/2022 10:05 AM Project: NV SPARKS CIVIL PROJECTS 49-21-099 SPARKS 5TH-6TH-7TH ROADREHAB DESIGN CAD SHEET 49-21-099 C-101X.DWG



DRAWING SCALES:  
 1 INCH @ 50 SC = 22"x34" PLANS  
 1 INCH @ 100 SC = 11"x17" PLANS



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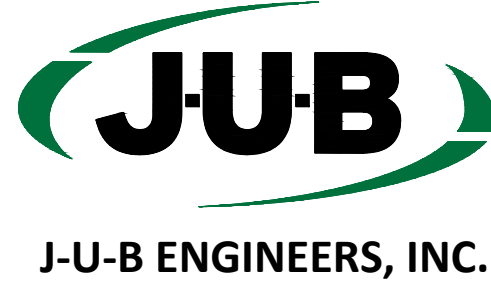


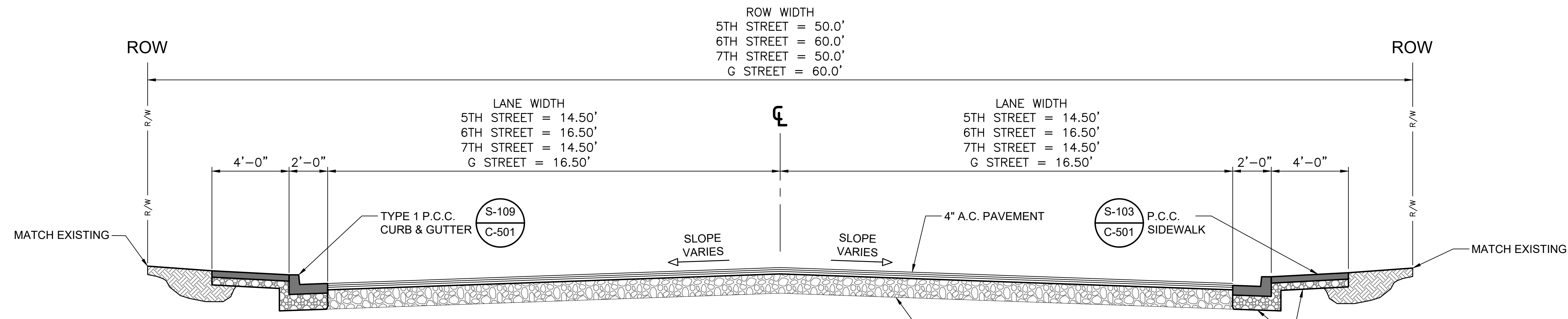
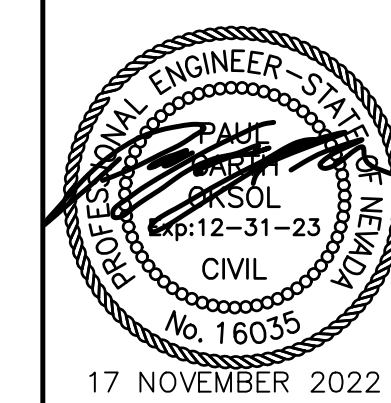
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2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 INDEX PLAN SHEET

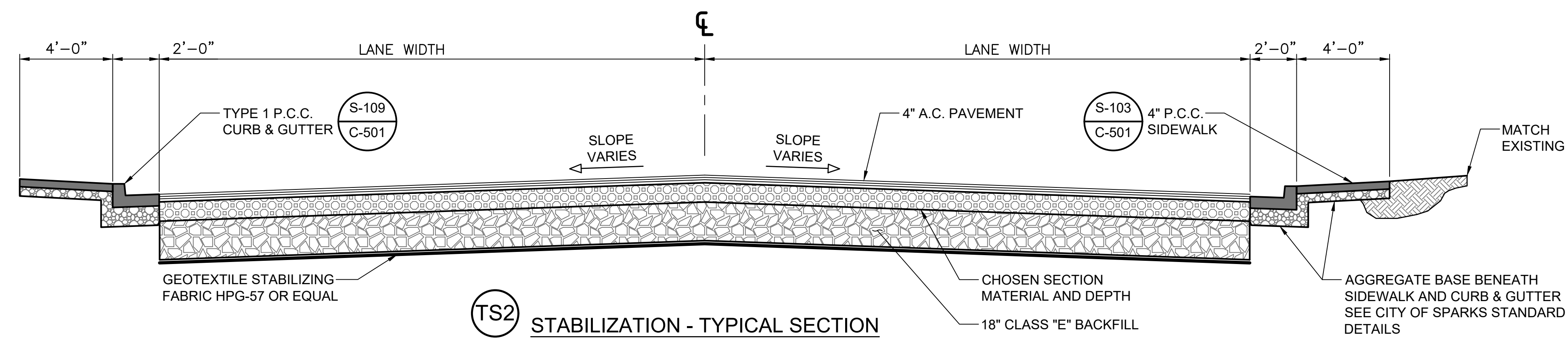
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 AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY  
 LAST UPDATED: 11/17/2022  
 DRAWING: G-004  
 SHEET: 04 OF 18





**TS1 TYPICAL SECTION**

1. REMOVE EXISTING ASPHALT TO BASE MATERIAL (DEPTH VARIES)
2. REMOVE COMPOSITE MATERIALS TO NEW ASPHALT DEPTH (AS NEEDED)
3. ADD NEW TYPE 2 AGGREGATE BASE (IF NEEDED)
4. SCARIFY COMPOSITE MATERIALS TO A DEPTH OF TEN-INCHES (10"), MOISTURE CONDITION, GRADE AND RE-COMPACT TO MIN. 95% RELATIVE COMPACTION
5. PLACE 4-INCHES (4") BITUMINOUS PLANT MIX, TYPE III, 50-BLOW, 3-VOID, PG64-28NV WITH LIME MARINATION



**TS2 STABILIZATION - TYPICAL SECTION**

WHERE REQUIRED FOR STABILIZATION

- NOTES:
1. IF THIS SECTION IS REQUIRED, THE CONTRACTOR SHALL ACKNOWLEDGE THE POSSIBILITY OF EXISTING UTILITIES AND SHALL TAKE STEPS TO INSURE THAT ALL UTILITIES ARE LOCATED AND PROTECTED DURING CONSTRUCTION.
  2. DEPTHS MAY VARY FROM TEST RESULTS CONDUCTED IN THE FIELD BY THE MATERIAL TESTER OR ENGINEER ON RECORD.

REUSE OF DRAWINGS

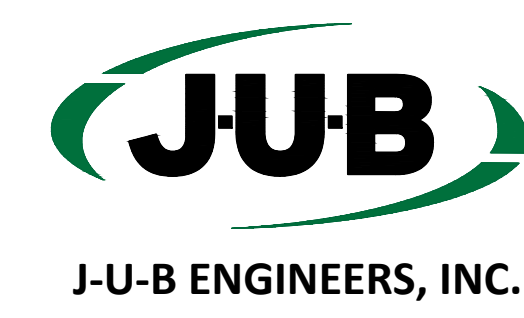
JUB SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT, AND TRADE SECRET RIGHTS IN THIS DRAWING. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF JUB. ANY REUSE WITHOUT WRITTEN CONSENT BY JUB WILL BE AT CLIENTS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JUB.

NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

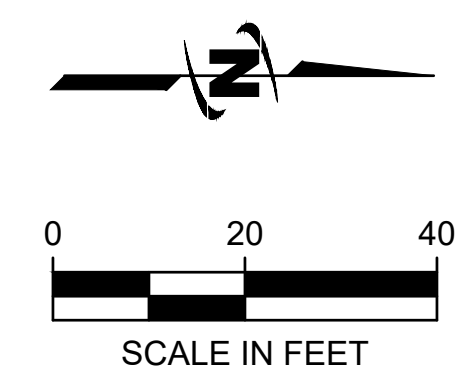
2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST

ROADWAY TYPICAL SECTIONS

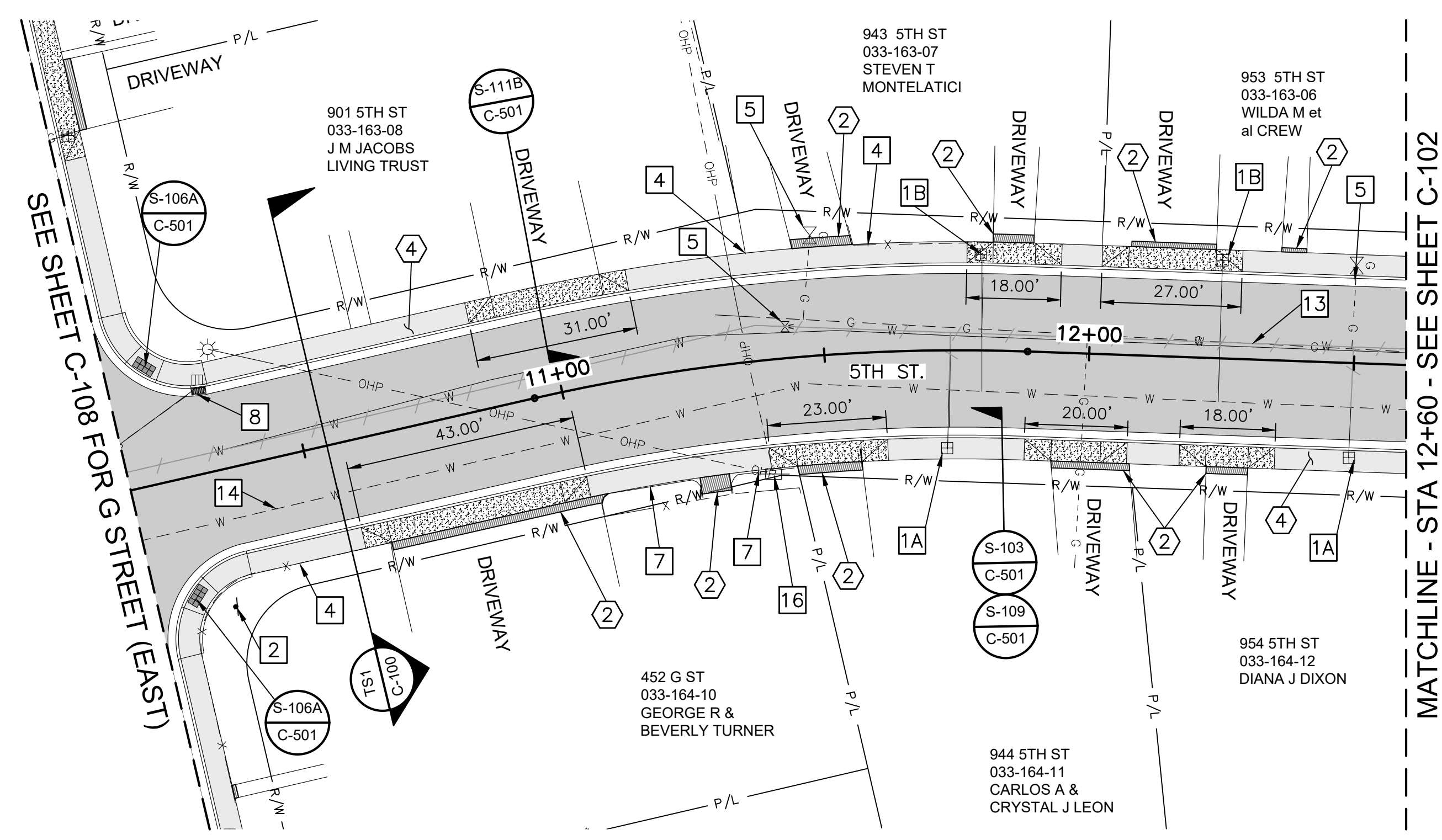
FILE: 49-21-099-G-101X
JUB PROJ. #: ---
DRAWN BY: ###
DESIGN BY: ###
CHECKED BY: ###
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY
LAST UPDATED: 11/17/2022
DRAWING: C-100
SHEET: 05 OF 18



Plot Date: 11/17/2022 5:06 PM Plotted By: Rachel Cave  
 Date Created: 11/16/2022 JUB\COM\CENTRAL\CALIENTS\NV\SPARKS\CITY\PROJECTS\49-21-099-SPARKS-5TH-6TH-7TH-ROADWAY\DESIGN\CAD\SHETS\49-21-099-G-101X.DWG



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



CONSTRUCTION NOTES:

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 2 PROTECT EXISTING SIGN IN PLACE
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 7 PROTECT IN PLACE EXISTING LANDSCAPE WALL
- 8 REMOVE AND REPLACE EXISTING CATCH BASIN, FRAME AND GRATE WITH NEW TYPE 4-R CATCH BASIN, SEE DETAIL S-204A & B, SHEET C-502
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA. PROTECT IN PLACE
- 16 EXISTING POWER POLE. PROTECT IN PLACE

RE-CONSTRUCTION NOTES:

- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVER TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

NEW CONSTRUCTION NOTES:

- S-103  
C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109  
C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B  
C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A  
C-501 PEDESTRIAN RAMP, SEE DETAIL

REUSE OF DRAWINGS

J-U-B SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT, AND OTHER RIGHTS IN THIS DRAWING. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF J-U-B ENGINEERS, INC. ANY REUSE WITHOUT WRITTEN CONSENT BY J-U-B WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B.

NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

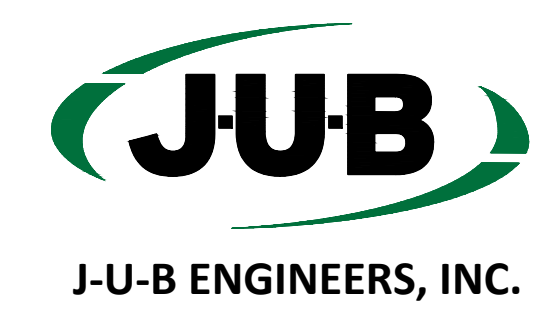
Plot Date: 11/17/2022 5:06 PM Plotted By: Rachel Cave  
 Date Created: 11/16/2022 10:00 AM Client: 5190 NEIL RD, SPARKS 5TH-6TH-7TH, ROADREHAB DESIGN CAD SHEET 48-21-099, C-101X.DWG

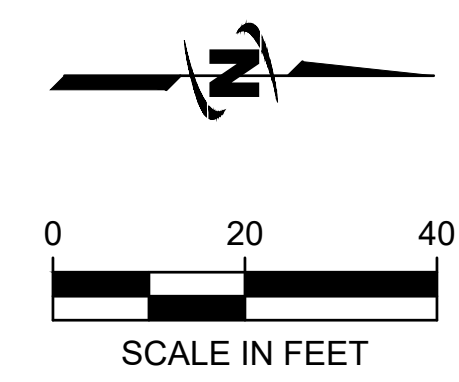
HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502

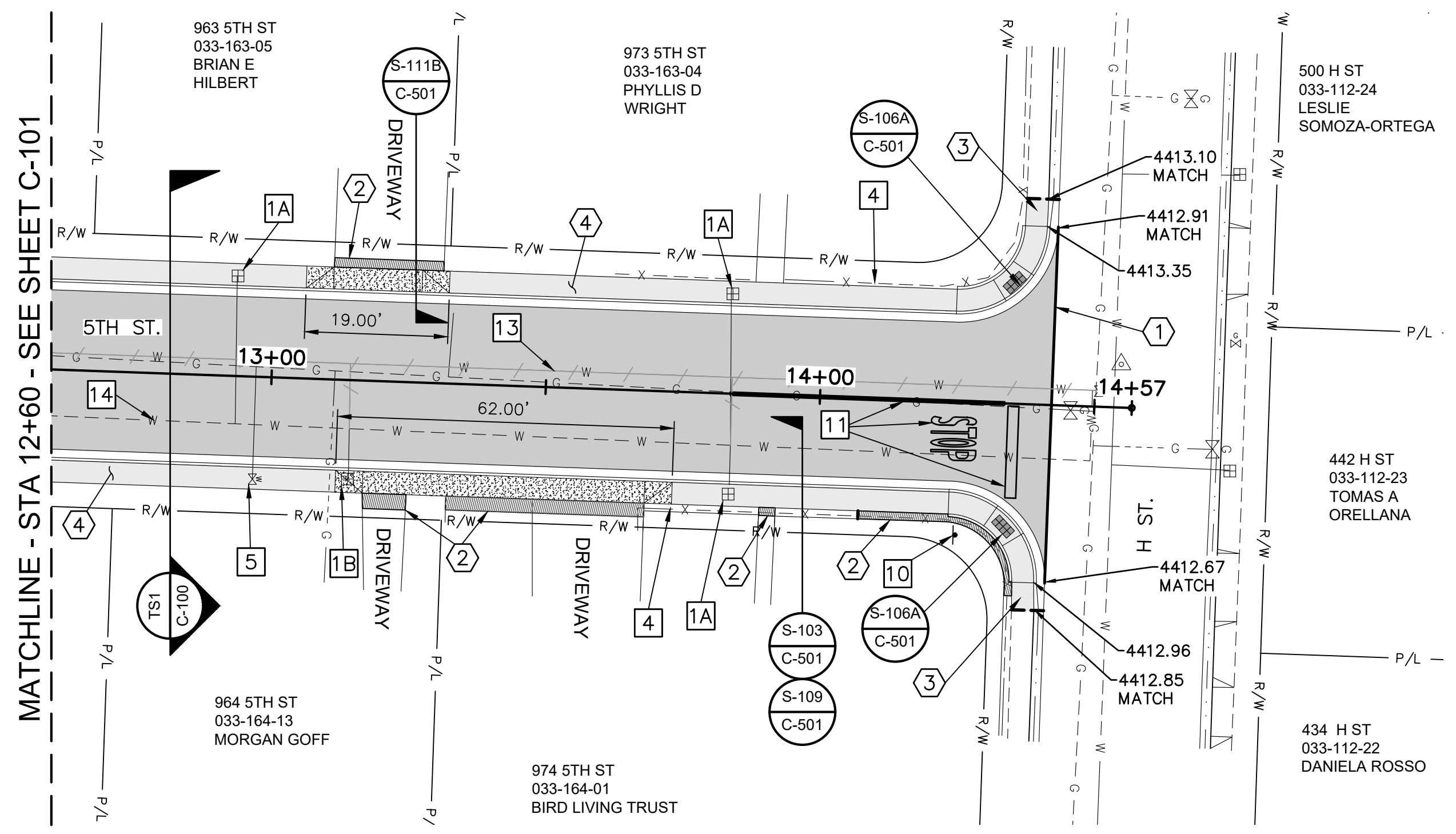
STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN		SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)			
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED		OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	
10+00.00																	
10+50.00	16.50'	4,411.86	<b>4,411.73</b>	14.50'	4,411.76	<b>4,411.85</b>	2.8	4,412.41	<b>4,412.26</b>	2.5	14.50'	4,411.89	<b>4,411.89</b>	16.50'	4,412.13	<b>4,412.27</b>	
10+94.67	16.50'	4,411.99	<b>4,411.94</b>	14.50'	4,411.92	<b>4,411.98</b>	2.8	4,412.45	<b>4,412.39</b>	2.5	14.50'	4,411.95	<b>4,412.03</b>	16.50'	4,412.19	<b>4,412.21</b>	
11+00.00	16.50'	4,412.18	<b>4,411.96</b>	14.50'	4,411.94	<b>4,411.98</b>	2.8	4,412.46	<b>4,412.39</b>	2.5	14.50'	4,411.97	<b>4,412.05</b>	16.50'	4,412.15	<b>4,412.30</b>	
11+50.00	16.50'	4,412.50	<b>4,412.52</b>	14.50'	4,412.14	<b>4,412.14</b>	2.8	4,412.62	<b>4,412.55</b>	2.5	14.50'	4,412.14	<b>4,412.19</b>	16.50'	4,412.19	<b>4,412.14</b>	
11+88.36	16.50'	4,412.30	<b>4,412.21</b>	14.50'	4,412.21	<b>4,412.26</b>	2.8	4,412.77	<b>4,412.67</b>	2.5	14.50'	4,412.24	<b>4,412.31</b>	16.50'	4,412.41	<b>4,412.67</b>	
12+00.00	16.50'	4,412.39	<b>4,412.66</b>	14.50'	4,412.24	<b>4,412.29</b>	2.8	4,412.83	<b>4,412.70</b>	2.5	14.50'	4,412.34	<b>4,412.34</b>	16.50'	4,412.47	<b>4,412.29</b>	
12+50.00	16.50'	4,412.57	<b>4,412.81</b>	14.50'	4,412.35	<b>4,412.43</b>	3.0	4,412.95	<b>4,412.86</b>	2.5	14.50'	4,412.35	<b>4,412.50</b>	16.50'	4,412.57	<b>4,412.87</b>	

2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 5TH STREET (SOUTH) PLAN





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



CONSTRUCTION NOTES:

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA. BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 10 SALVAGE STREET NAME SIGNS ADD A STOP SIGN & INSTALL NEW POSTS, SEE DETAIL S-401A, SHEET C-502
- 11 INSTALL DOUBLE YELLOW STRIPING (50 LF), STOP BAR AND A STOP LEGEND
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA. PROTECT IN PLACE

RE-CONSTRUCTION NOTES:

- 1 SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVEMENT TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 3 REMOVE & REPLACE 5' OF CONCRETE SIDEWALK WHERE GRADES DO NOT MATCH THE EXISTING SIDEWALK GRADES. TRANSITIONS MUST BE ADA COMPLIANT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

NEW CONSTRUCTION NOTES:

- (S-103 / C-501) CONCRETE SIDEWALK, SEE DETAIL
- (S-109 / C-501) TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- (S-111B / C-501) P.C.C. DRIVEWAY APRON, SEE DETAIL
- (S-106A / C-501) PEDESTRIAN RAMP, SEE DETAIL

REUSE OF DRAWINGS

J-U-B SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT, AND TRADEMARK RIGHTS IN THIS DRAWING. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF J-U-B ENGINEERS, INC. ANY REUSE WITHOUT WRITTEN CONSENT BY J-U-B WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B.

NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

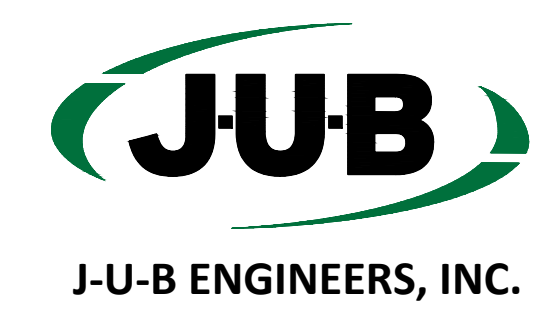
HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		(TS1 / C-100)
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON (S-111B / C-501)
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK (S-103 / C-501)
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY (S-103 / C-501, S-111B / C-501, S-112A / C-502)

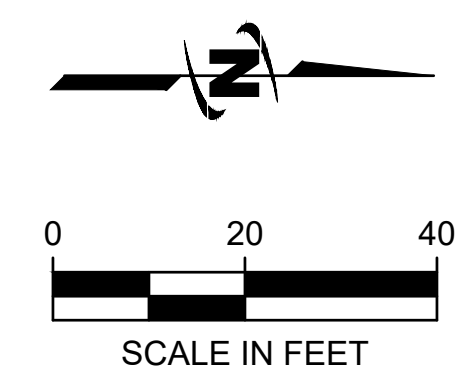
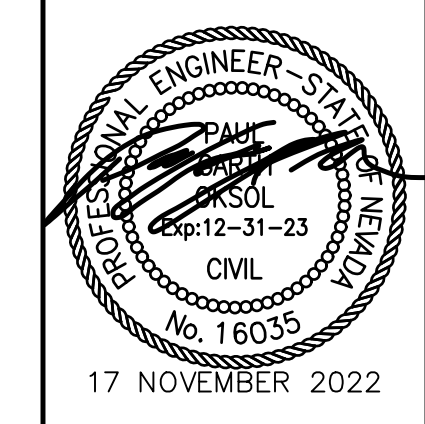
DESIGN TABLE 5TH (NORTH) SHEET C-102

STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN			SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED	EXISTING		PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING
13+00.00	16.50'	4,412.71	4,412.95	14.50'	4,412.52	4,412.57	3.0	4,412.98	4,413.01	2.5	14.50'	4,412.45	4,412.65	16.50'	4,412.65	4,413.03	
13+50.00	16.50'	4,412.91	4,413.09	14.50'	4,412.61	4,412.72	3.1	4,412.99	4,413.17	2.5	14.50'	4,412.54	4,412.81	16.50'	4,412.81	4,412.76	
14+00.00	16.50'	4,412.96	4,413.23	14.50'	4,412.72	4,412.86	3.2	4,413.15	4,413.33	2.5	14.50'	4,412.76	4,412.97	16.50'	4,413.07	4,413.34	
14+42.19								4,412.96	4,412.96								

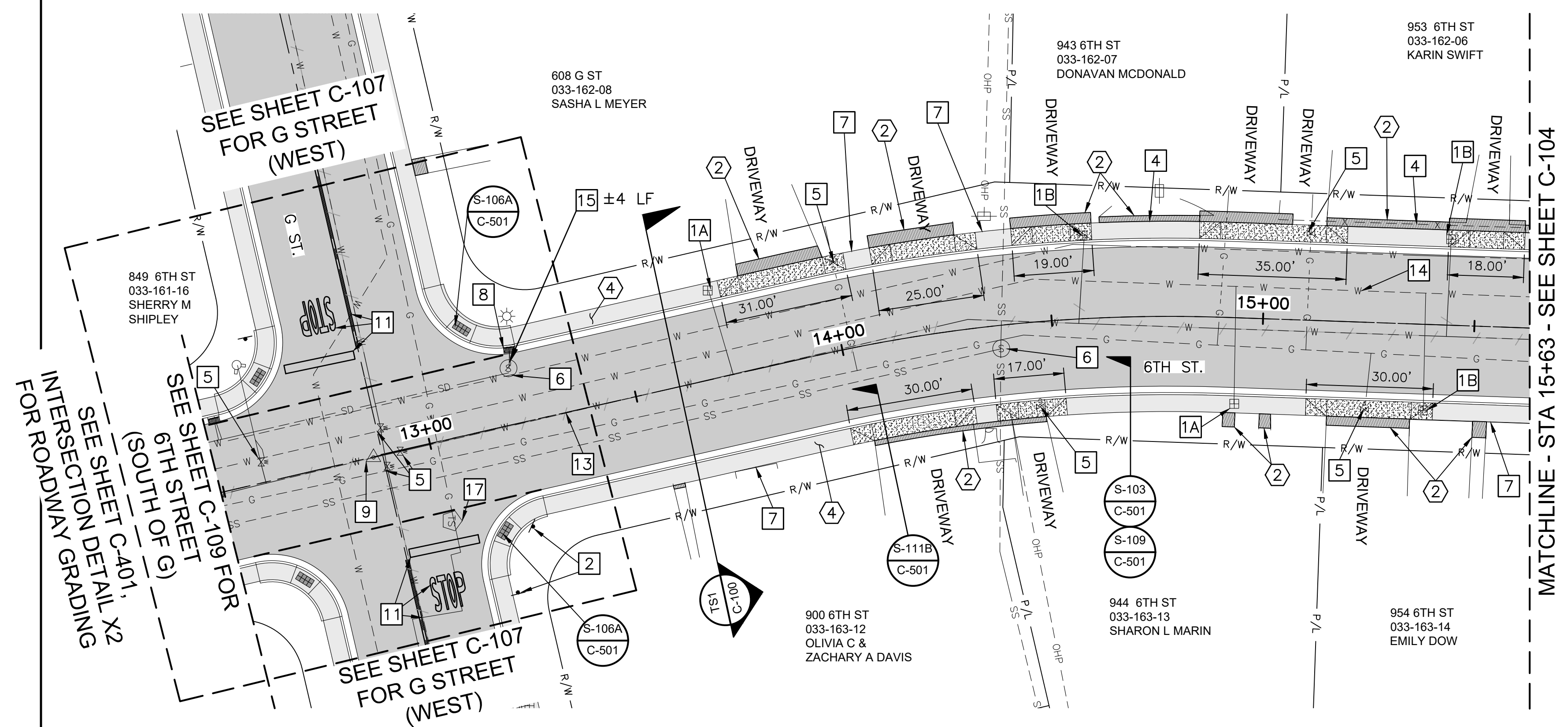
2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 5TH STREET (NORTH) PLAN



Plot Date: 11/17/2022 5:06 PM Plotted By: Rachel Cave  
 Date Created: 11/16/2022 10:00 AM Client: NV SPARKS CITY PROJECT # 49-21-099 SPARKS 5TH-6TH-7TH ROADWAY DESIGN CAD SHEET # 49-21-099 C-101X.DWG



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



**CONSTRUCTION NOTES:**

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 2 PROTECT EXISTING SIGN IN PLACE

- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 6 ADJUST EXISTING MANHOLE RIM TO GRADE, CONSTRUCT NEW P.C.C. COLLAR, SEE DETAIL S-210A, SHEET C-502
- 7 PROTECT IN PLACE EXISTING LANDSCAPE WALL
- 8 REMOVE AND REPLACE EXISTING CATCH BASIN, FRAME AND GRATE WITH NEW TYPE 4-R CATCH BASIN, SEE DETAIL S-204A & B, SHEET C-502

**RE-CONSTRUCTION NOTES:**

- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVER TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100.

**NEW CONSTRUCTION NOTES:**

- S-103  
C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109  
C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B  
C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A  
C-501 PEDESTRIAN RAMP, SEE DETAIL

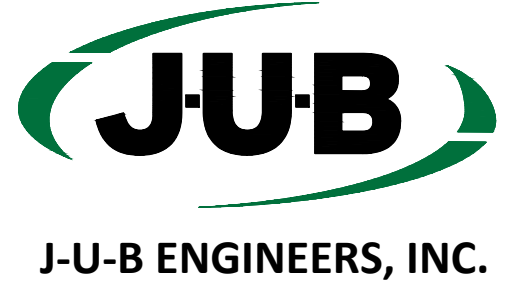
STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN			SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED	EXISTING		PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING
12+88.50								4,413.28	4,413.18								
13+00.00								4,413.27	4,413.20								
13+04.83								4,413.27	4,413.22								
13+16.03								4,413.28	4,413.25								
13+24.65	18.50'	4,413.11	4,413.30	16.50'	4,412.75	4,412.93	2.0	4,413.26	4,413.26	3.2	16.50'	4,412.73	4,412.74	18.50'	4,412.94	4,413.12	
13+50.00	18.50'	4,413.04	4,413.37	16.50'	4,412.79	4,412.99	2.0	4,413.25	4,413.32	3.1	16.50'	4,412.73	4,412.81	18.50'	4,412.99	4,413.18	
13+92.98	18.50'	4,413.03	4,413.05	16.50'	4,412.91	4,413.10	2.0	4,413.33	4,413.43	3.2	16.50'	4,412.84	4,412.91	18.50'	4,413.01	4,412.79	
14+00.00	18.50'	4,413.02	4,413.09	16.50'	4,412.93	4,413.10	2.0	4,413.34	4,413.43	3.0	16.50'	4,412.88	4,412.94	18.50'	4,413.07	4,413.14	
14+42.09	18.50'	4,413.08	4,413.61	16.50'	4,412.94	4,413.21	2.0	4,413.39	4,413.54	3.0	16.50'	4,412.94	4,413.04	18.50'	4,413.10	4,412.98	
14+50.00	18.50'	4,412.99	4,413.21	16.50'	4,412.96	4,413.24	2.0	4,413.41	4,413.57	3.0	16.50'	4,412.97	4,413.07	18.50'	4,413.20	4,413.27	
14+91.21	18.50'	4,413.37	4,413.31	16.50'	4,413.12	4,413.36	2.0	4,413.55	4,413.69	3.3	16.50'	4,412.94	4,413.14	18.50'	4,413.21	4,413.51	
15+00.00	18.50'	4,413.33	4,413.34	16.50'	4,413.09	4,413.38	2.0	4,413.59	4,413.71	3.3	16.50'	4,412.96	4,413.16	18.50'	4,413.25	4,413.53	
15+50.00	18.50'	4,413.44	4,413.46	16.50'	4,413.26	4,413.51	2.0	4,413.86	4,413.84	3.4	16.50'	4,413.14	4,413.28	18.50'	4,413.38	4,413.66	

**HATCH LEGEND**

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502

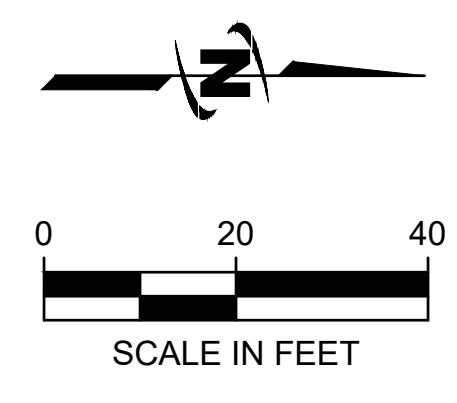
NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

**2022 DRAINAGE & ROADWAY PROJECT**  
 5TH, 6TH, 7TH & G ST  
 6TH STREET (SOUTH) PLAN

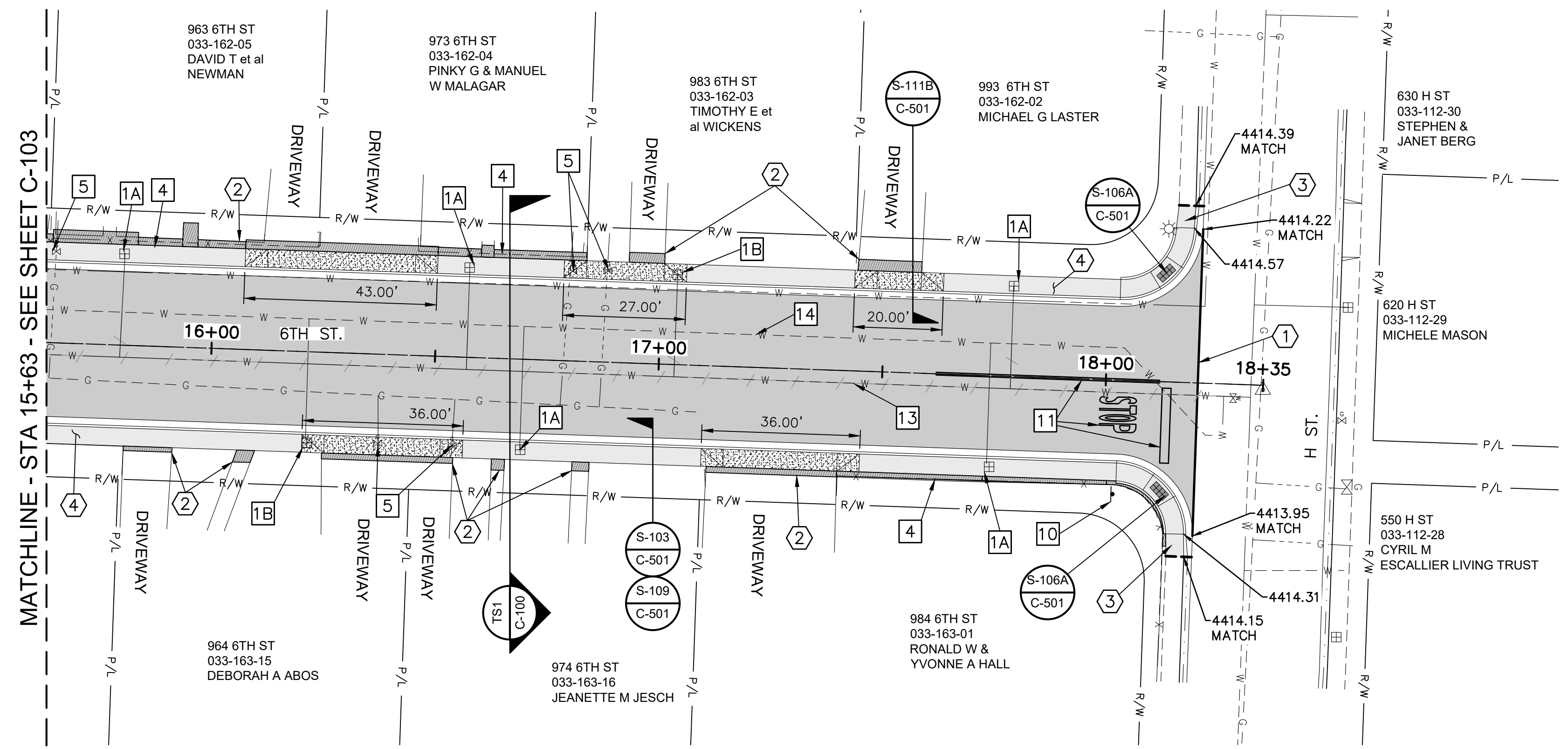


Plot Date: 11/17/2022 5:07 PM Plotted By: Rachel Cave  
 Date Created: 11/17/2022 JUB-ENGINEERS, INC. SPARKS 5TH-6TH-7TH ROADWAY DESIGN CAD SHEET 49-21-099-C-103X.DWG





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



**CONSTRUCTION NOTES:**

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA. ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 10 SALVAGE STREET NAME SIGNS ADD A STOP SIGN & INSTALL NEW POSTS, SEE DETAIL S-401A, SHEET C-502
- 11 INSTALL DOUBLE YELLOW STRIPING (50 LF), STOP BAR AND A STOP LEGEND
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA. PROTECT IN PLACE

**RE-CONSTRUCTION NOTES:**

- 1 SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK, AND/OR PAVER TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 3 REMOVE & REPLACE 5' OF CONCRETE SIDEWALK WHERE GRADES DO NOT MATCH THE EXISTING SIDEWALK GRADES. TRANSITIONS MUST BE ADA COMPLIANT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

**NEW CONSTRUCTION NOTES:**

- S-103  
C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109  
C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B  
C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A  
C-501 PEDESTRIAN RAMP, SEE DETAIL

REUSE OF DRAWINGS

JUB SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT AND OTHER RIGHTS IN THIS DRAWING. NO PART OF THIS DRAWING SHALL NOT BE REUSED WITHOUT JUB'S PRIOR WRITTEN CONSENT. ANY REUSE WITHOUT WRITTEN CONSENT BY JUB WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JUB.

NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

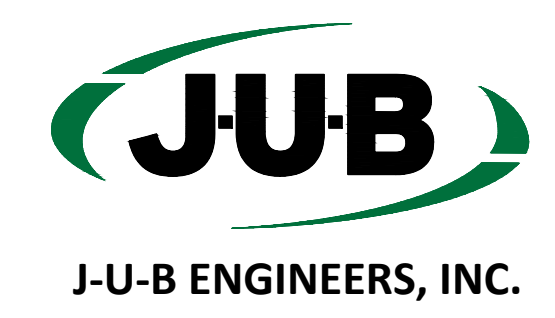
**HATCH LEGEND**

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502

**DESIGN TABLE 6TH (NORTH) SHEET C-104**

	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN			SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED	EXISTING		PROPOSED	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING
16+00.00	18.50'	4,413.62	4,414.01	16.50'	4,413.39	4,413.63	2.0	4,413.95	4,413.96	3.4	16.50'	4,413.30	4,413.40	18.50'	4,413.59	4,413.78	
16+50.00	18.50'	4,413.93	4,414.13	16.50'	4,413.65	4,413.76	2.0	4,413.98	4,414.09	3.5	16.50'	4,413.37	4,413.52	18.50'	4,413.64	4,413.48	
17+00.00	18.50'	4,413.73	4,413.84	16.50'	4,413.57	4,413.88	2.0	4,414.15	4,414.21	3.5	16.50'	4,413.55	4,413.64	18.50'	4,413.75	4,414.02	
17+50.00	18.50'	4,414.05	4,413.97	16.50'	4,413.79	4,414.01	2.0	4,414.28	4,414.34	3.5	16.50'	4,413.67	4,413.76	18.50'	4,413.72	4,414.14	
18+00.00	18.50'	4,414.24	4,414.51	16.50'	4,414.02	4,414.14	2.0	4,414.32	4,414.47	3.5	16.50'	4,413.83	4,413.89	18.50'	4,414.11	4,414.26	
18+20.82								4,414.39	4,414.39								

2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 6TH STREET (NORTH) PLAN



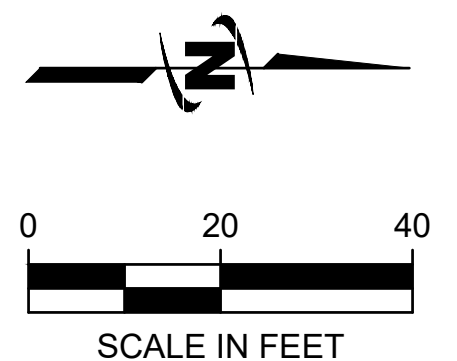
Plot Date: 11/17/2022 5:07 PM Plotted By: Rachel Cave  
 Date Created: 11/17/2022 JUB.COM\CENTRAL\CALCULATED\SPARKS\5TH-6TH-7TH\_FDR\DRH\B\DESIGN\CAD\SHEET\49-21-099\_C-103X.DWG

REUSE OF DRAWINGS

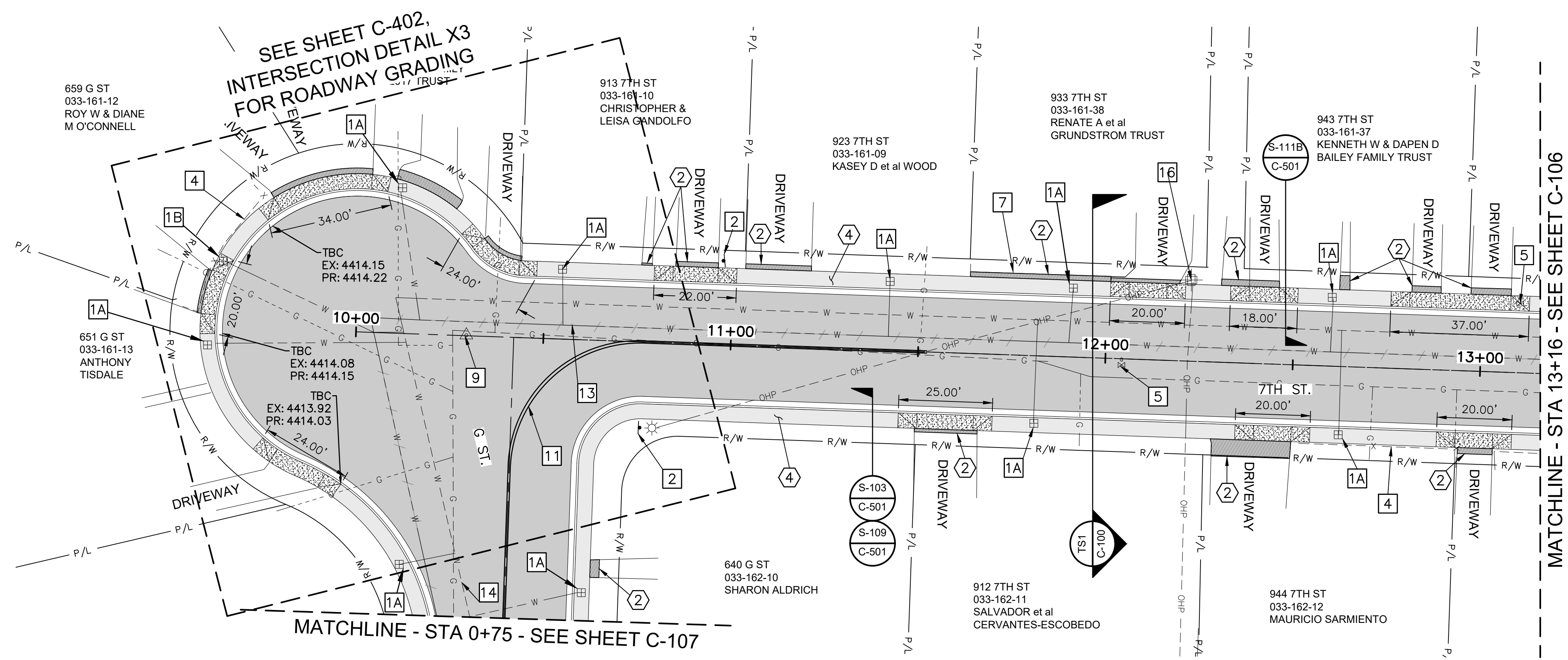
J-U-B SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT AND OTHER RIGHTS IN THIS DRAWING. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF J-U-B ENGINEERS, INC. ANY REUSE WITHOUT WRITTEN CONSENT BY J-U-B WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B.

NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 7TH STREET (SOUTH) PLAN



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



CONSTRUCTION NOTES:

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 2 PROTECT EXISTING SIGN IN PLACE
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 7 PROTECT IN PLACE EXISTING LANDSCAPE WALL
- 9 REMOVE AND RESET SURVEY MONUMENT, SEE DETAIL S-118, SHEET C-502
- 11 INSTALL DOUBLE YELLOW STRIPING (200 LF, R=35')
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA. PROTECT IN PLACE
- 16 EXISTING POWER POLE. PROTECT IN PLACE

RE-CONSTRUCTION NOTES:

- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVEMENT TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

NEW CONSTRUCTION NOTES:

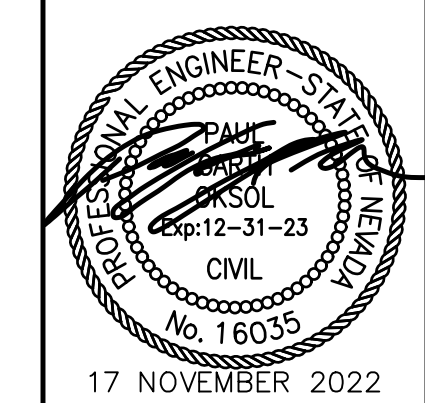
- S-103  
C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109  
C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B  
C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A  
C-501 PEDESTRIAN RAMP, SEE DETAIL

HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502

DESIGN TABLE 7TH (SOUTH) SHEET C-105

STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN		SLOPE	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								4,414.57	4,414.79								
10+50.00	16.50'	4,414.18	4,414.40	14.50'	4,414.02	4,414.10	2.5	4,414.61	4,414.46								
11+00.00	16.50'	4,414.24	4,414.44	14.50'	4,414.10	4,414.22	2.5	4,414.59	4,414.58	3.7	14.50'	4,414.06	4,414.05	16.50'	4,414.39	4,414.43	
11+50.00	16.50'	4,414.37	4,414.63	14.50'	4,414.16	4,414.32	2.5	4,414.79	4,414.68	3.4	14.50'	4,414.12	4,414.18	16.50'	4,414.38	4,414.16	
12+00.00	16.50'	4,414.54	4,414.75	14.50'	4,414.30	4,414.43	2.5	4,414.88	4,414.79	3.3	14.50'	4,414.32	4,414.31	16.50'	4,414.51	4,414.68	
12+50.00	16.50'	4,414.54	4,414.80	14.50'	4,414.29	4,414.54	2.5	4,414.89	4,414.90	3.2	14.50'	4,414.33	4,414.43	16.50'	4,414.53	4,414.38	
13+00.00	16.50'	4,414.48	4,414.55	14.50'	4,414.48	4,414.64	2.5	4,415.04	4,415.00	3.1	14.50'	4,414.40	4,414.55	16.50'	4,414.68	4,414.51	



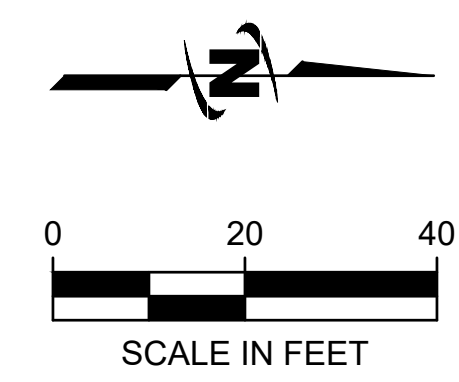
17 NOVEMBER 2022

NO.	REVISION	DESCRIPTION	BY	DATE

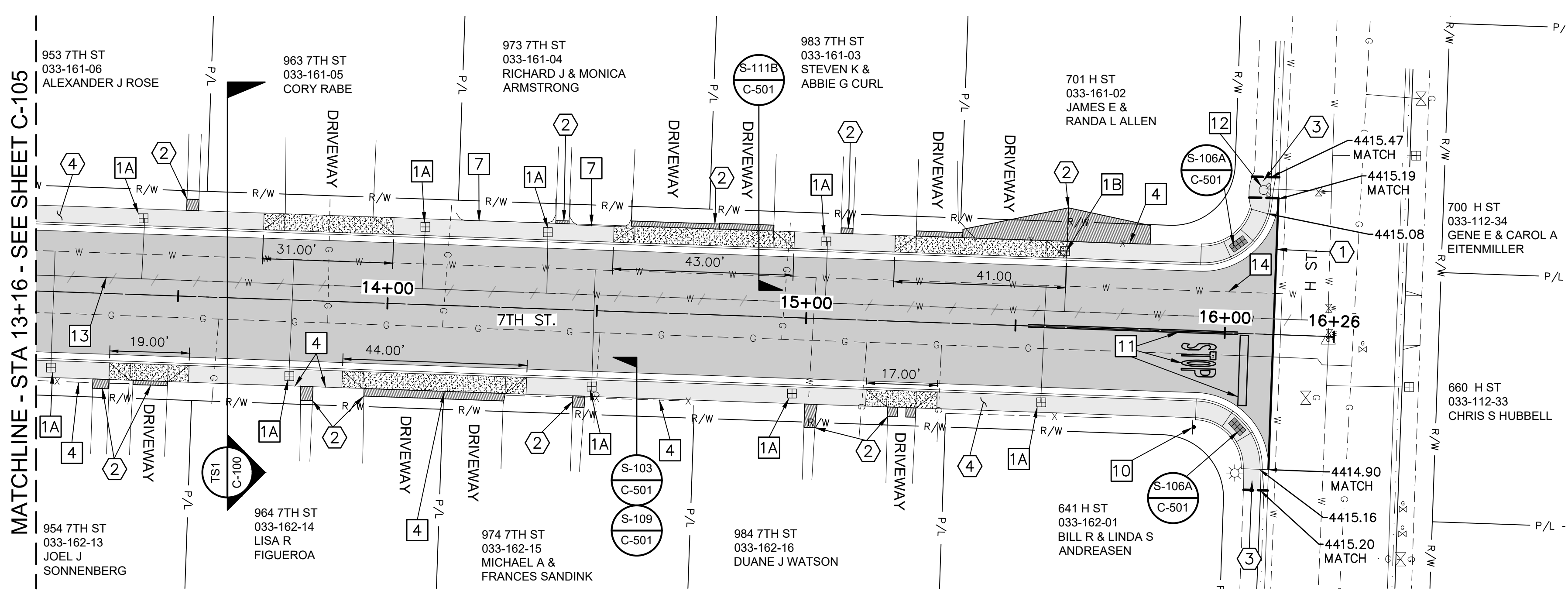
J-U-B SHALL RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHT, AND OTHER RIGHTS IN THIS DRAWING. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF J-U-B. ANY REUSE WITHOUT WRITTEN CONSENT BY J-U-B WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B.

**2022 DRAINAGE & ROADWAY PROJECT**  
**5TH, 6TH, 7TH & G ST**  
**7TH STREET (NORTH) PLAN**

FILE: 49-21-099-C-105X
JUB PROJ # : ---
DRAWN BY: ###
DESIGN BY: ###
CHECKED BY: ###
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY LAST UPDATED: 11/17/2022
DRAWING: <b>C-106</b>
SHEET: 11 OF 18



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



**CONSTRUCTION NOTES:**

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 7 PROTECT IN PLACE EXISTING LANDSCAPE WALL
- 10 SALVAGE STREET NAME SIGNS ADD A STOP SIGN & INSTALL NEW POSTS, SEE DETAIL S-401A, SHEET C-502
- 11 INSTALL DOUBLE YELLOW STRIPING (50 LF), STOP BAR AND A STOP LEGEND
- 12 PROTECT EXISTING HYDRANT IN PLACE
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA. PROTECT IN PLACE

**RE-CONSTRUCTION NOTES:**

- 1 SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVEMENT TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 3 REMOVE & REPLACE 5' OF CONCRETE SIDEWALK WHERE GRADES DO NOT MATCH THE EXISTING SIDEWALK GRADES. TRANSITIONS MUST BE ADA COMPLIANT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

**NEW CONSTRUCTION NOTES:**

- S-103  
C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109  
C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B  
C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A  
C-501 PEDESTRIAN RAMP, SEE DETAIL

**HATCH LEGEND**

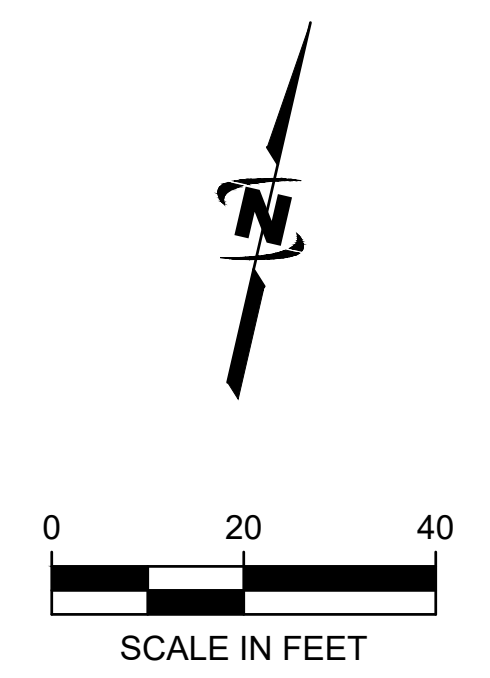
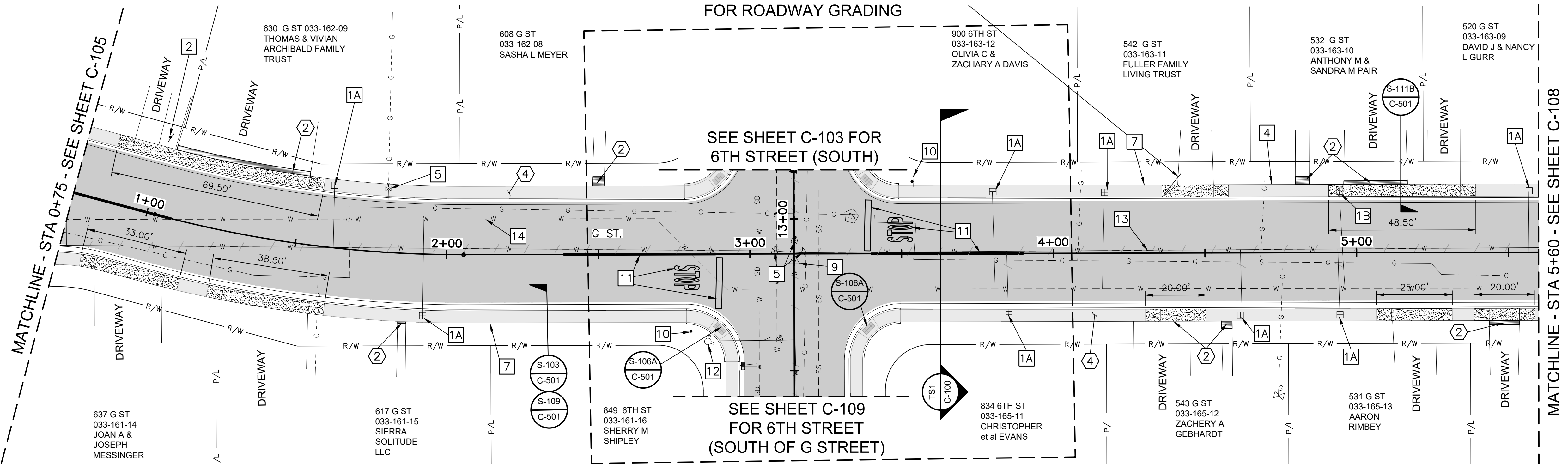
HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502

STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN			SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)		
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED	EXISTING		PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING
13+50.00	16.50'	4,414.80	4,415.09	14.50'	4,414.53	4,414.75	2.5	4,415.08	4,415.11	3.0	14.50'	4,414.59	4,414.68	16.50'	4,414.86	4,414.78	
14+00.00	16.50'	4,414.97	4,415.12	14.50'	4,414.68	4,414.85	2.5	4,415.19	4,415.21	2.8	14.50'	4,414.68	4,414.80	16.50'	4,144.80	4,144.75	
14+50.00	16.50'	4,415.19	4,415.31	14.50'	4,414.84	4,414.96	2.5	4,415.24	4,415.32	2.7	14.50'	4,414.85	4,414.93	16.50'	4,415.18	4,415.30	
15+00.00	16.50'	4,415.17	4,415.43	14.50'	4,414.88	4,415.06	2.5	4,415.35	4,415.42	2.6	14.50'	4,414.98	4,415.05	16.50'	4,415.13	4,415.42	
15+50.00	16.50'	4,415.18	4,415.11	14.50'	4,415.45	4,415.17	2.5	4,415.45	4,415.53	2.5	14.50'	4,415.08	4,415.17	16.50'	4,415.25	4,415.55	
16+00.00								4,415.52	4,415.59								
16+11.59								4,415.53	4,415.53								

NO.	REVISION	DESCRIPTION	BY	DATE

2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 G STREET (WEST) PLAN

SEE SHEET C-401,  
 INTERSECTION DETAIL X2  
 FOR ROADWAY GRADING



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

CONSTRUCTION NOTES:

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE. ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA. BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE. METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA. ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA. BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 2 PROTECT EXISTING SIGN IN PLACE
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 7 PROTECT IN PLACE EXISTING LANDSCAPE WALL
- 9 REMOVE AND RESET SURVEY MONUMENT, SEE DETAIL S-118, SHEET C-502
- 10 SALVAGE STREET NAME SIGNS ADD A STOP SIGN & INSTALL NEW POSTS, SEE DETAIL S-401A, SHEET C-502
- 11 INSTALL DOUBLE YELLOW STRIPING (50 LF), A STOP BAR, STOP LEGEND, AND CROSS WALK SEE DETAIL S-411, SHEET C-502
- 12 PROTECT EXISTING HYDRANT IN PLACE
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA. PROTECT IN PLACE

RE-CONSTRUCTION NOTES:

- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVER TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

NEW CONSTRUCTION NOTES:

- S-103  
C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109  
C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B  
C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A  
C-501 PEDESTRIAN RAMP, SEE DETAIL

HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502

STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN		SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)			
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED		OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	
0+00.00								4,414.60	4,414.45								
0+50.00								4,414.10	4,414.28	2.6	16.50'	4,413.74	4,413.85	18.50'	4,413.99	4,414.22	
0+85.50	18.50'	4,413.83	4,414.03	16.50'	4,413.58	4,413.66	2.5	4,414.15	4,414.07	3.2	16.50'	4,413.60	4,413.55	18.50'	4,413.72	4,413.58	
1+00.00	18.50'	4,413.74	4,413.54	16.50'	4,413.56	4,413.58	2.5	4,414.07	4,413.99	2.8	16.50'	4,413.55	4,413.52	18.50'	4,413.64	4,413.47	
1+50.00	18.50'	4,413.36	4,413.26	16.50'	4,413.43	4,413.32	2.5	4,413.77	4,413.74	2.5	16.50'	4,413.43	4,413.33	18.50'	4,413.49	4,413.32	
2+00.00	18.50'	4,413.38	4,413.28	16.50'	4,413.18	4,413.20	2.5	4,413.50	4,413.61	3.1	16.50'	4,413.15	4,413.10	18.50'	4,413.39	4,413.50	
2+50.00	18.50'	4,413.25	4,413.46	16.50'	4,413.03	4,413.09	2.5	4,413.34	4,413.50	3.6	16.50'	4,412.92	4,412.90	18.50'	4,413.14	4,413.27	
3+00.00								4,413.27	4,413.27								
3+50.00	18.50'	4,412.81	4,413.05	16.50'	4,412.64	4,412.68	2.5	4,413.13	4,413.10	2.4	16.50'	4,412.59	4,412.71	18.50'	4,412.79	4,413.08	
4+00.00	18.50'	4,412.71	4,412.92	16.50'	4,412.52	4,412.54	2.5	4,412.91	4,412.96	2.8	16.50'	4,412.49	4,412.50	18.50'	4,412.68	4,412.88	
4+50.00	18.50'	4,412.52	4,412.36	16.50'	4,412.35	4,412.41	2.5	4,412.80	4,412.82	3.2	16.50'	4,412.39	4,412.29	18.50'	4,412.56	4,412.63	
5+00.00	18.50'	4,412.25	4,412.23	16.50'	4,412.15	4,412.27	2.5	4,412.62	4,412.68	3.6	16.50'	4,412.19	4,412.08	18.50'	4,412.39	4,412.45	
5+50.00	18.50'	4,412.31	4,412.51	16.50'	4,412.05	4,412.13	2.5	4,412.51	4,412.54	3.6	16.50'	4,412.06	4,411.95	18.50'	4,412.14	4,411.90	

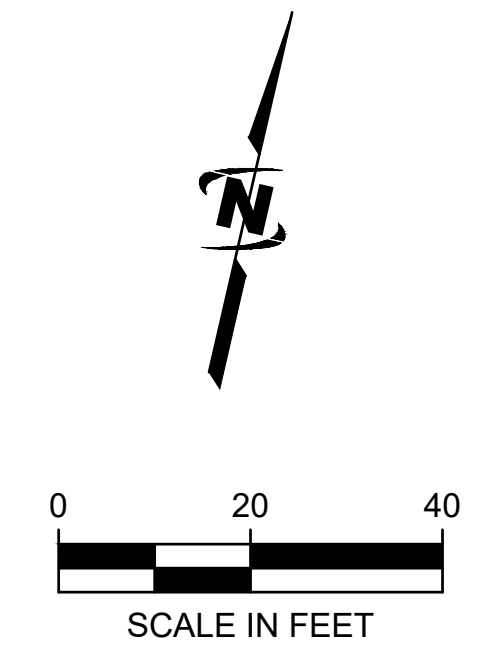
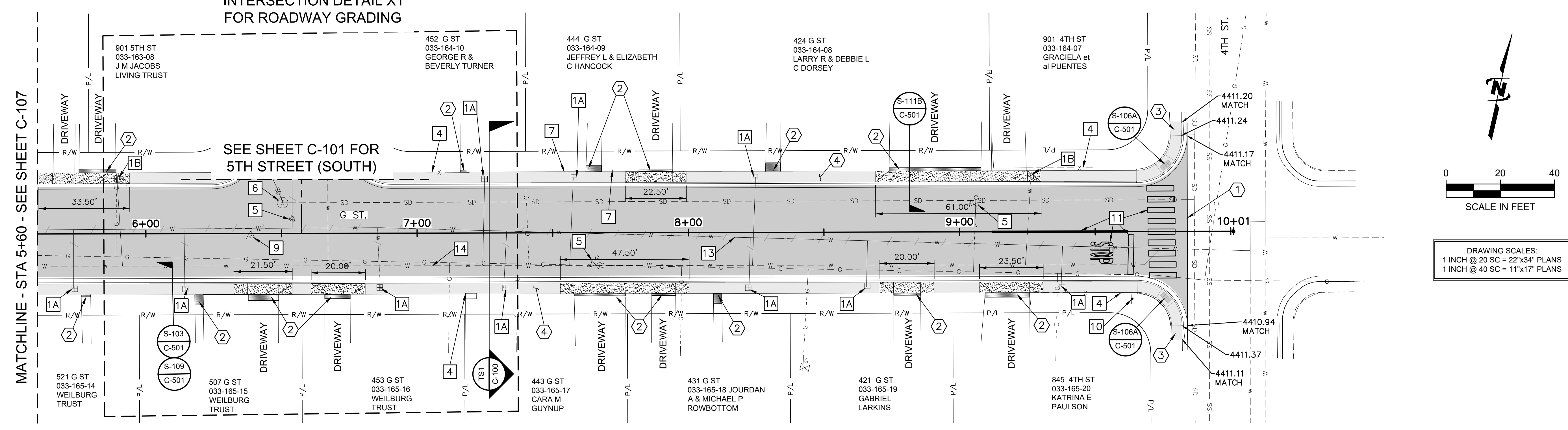
REUSE OF DRAWINGS

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NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

**2022 DRAINAGE & ROADWAY PROJECT**  
**5TH, 6TH, 7TH & G ST**  
**G STREET (EAST) PLAN**

SEE SHEET C-401,  
 INTERSECTION DETAIL X1  
 FOR ROADWAY GRADING



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

**CONSTRUCTION NOTES:**

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA, BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 4 AS NEEDED, REMOVE AND RE-INSTALL EXISTING FENCE TO CONSTRUCT NEW SIDEWALK
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS

**RE-CONSTRUCTION NOTES:**

- 6 ADJUST EXISTING MANHOLE RIM TO GRADE, CONSTRUCT NEW P.C.C. COLLAR, SEE DETAIL S-210A, SHEET C-502
- 7 PROTECT IN PLACE EXISTING LANDSCAPE WALL
- 9 REMOVE AND RESET SURVEY MONUMENT, SEE DETAIL S-118, SHEET C-502
- 10 SALVAGE STREET NAME SIGNS ADD A STOP SIGN & INSTALL NEW POSTS, SEE DETAIL S-401A, SHEET C-502
- 11 INSTALL DOUBLE YELLOW STRIPING (50 LF), A STOP BAR, STOP LEGEND, AND CROSSWALK, SEE DETAIL S-411, SHEET C-502
- 13 EXISTING WATER LINE TO BE ABANDONED BY TMWA, PROTECT IN PLACE
- 14 PROPOSED WATERLINE BY TMWA, PROTECT IN PLACE

**NEW CONSTRUCTION NOTES:**

- 1 SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK AND/OR PAVER TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 3 REMOVE & REPLACE 5' OF CONCRETE SIDEWALK WHERE GRADES DO NOT MATCH THE EXISTING SIDEWALK GRADES. TRANSITIONS MUST BE ADA COMPLIANT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100

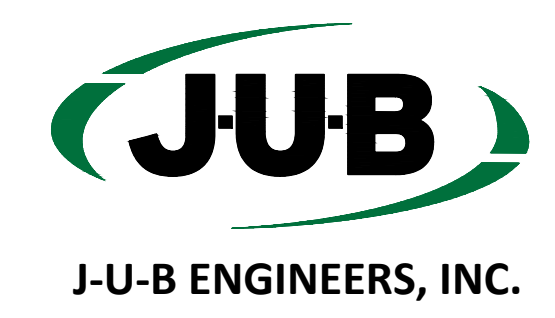
- S-103 C-501 CONCRETE SIDEWALK, SEE DETAIL
- S-109 C-501 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B C-501 P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A C-501 PEDESTRIAN RAMP, SEE DETAIL

**DESIGN TABLE 6TH STREET (SOUTH) Sheet C-109**

STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN		SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)			
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED		OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	
10+29.99								4,412.70	4,412.70								
10+50.00								4,412.64	4,412.72								
11+00.00	18.50'	4,412.36	4,412.25	16.50'	4,412.18	4,411.99	5.2	4,412.62	4,412.85	2.5	16.50'	4,412.31	4,412.44	18.50'	4,412.39	4,412.40	
11+50.00	18.50'	4,412.48	4,412.58	16.50'	4,412.28	4,412.21	4.6	4,412.72	4,412.97	2.5	16.50'	4,412.29	4,412.56	18.50'	4,412.52	4,412.52	
12+00.00	18.50'	4,412.60	4,412.80	16.50'	4,412.35	4,412.42	4.1	4,412.82	4,413.10	2.5	16.50'	4,412.50	4,412.69	18.50'	4,412.77	4,413.07	
12+50.00	18.50'	4,412.77	4,413.02	16.50'	4,412.50	4,412.64	3.5	4,413.04	4,413.22	2.5	16.50'	4,412.63	4,412.81	18.50'	4,412.91	4,413.19	
12+71.99								4,412.78	4,413.24								

**HATCH LEGEND**

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 C-501 S-111B C-501 S-112A C-502



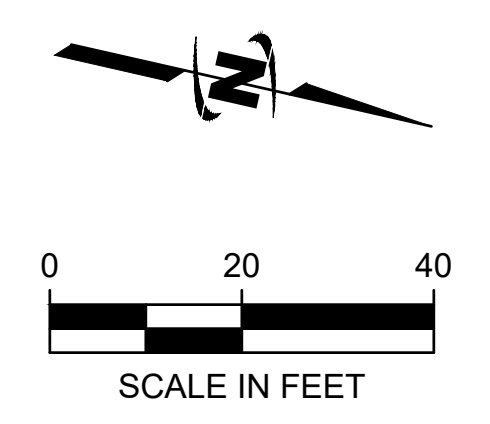
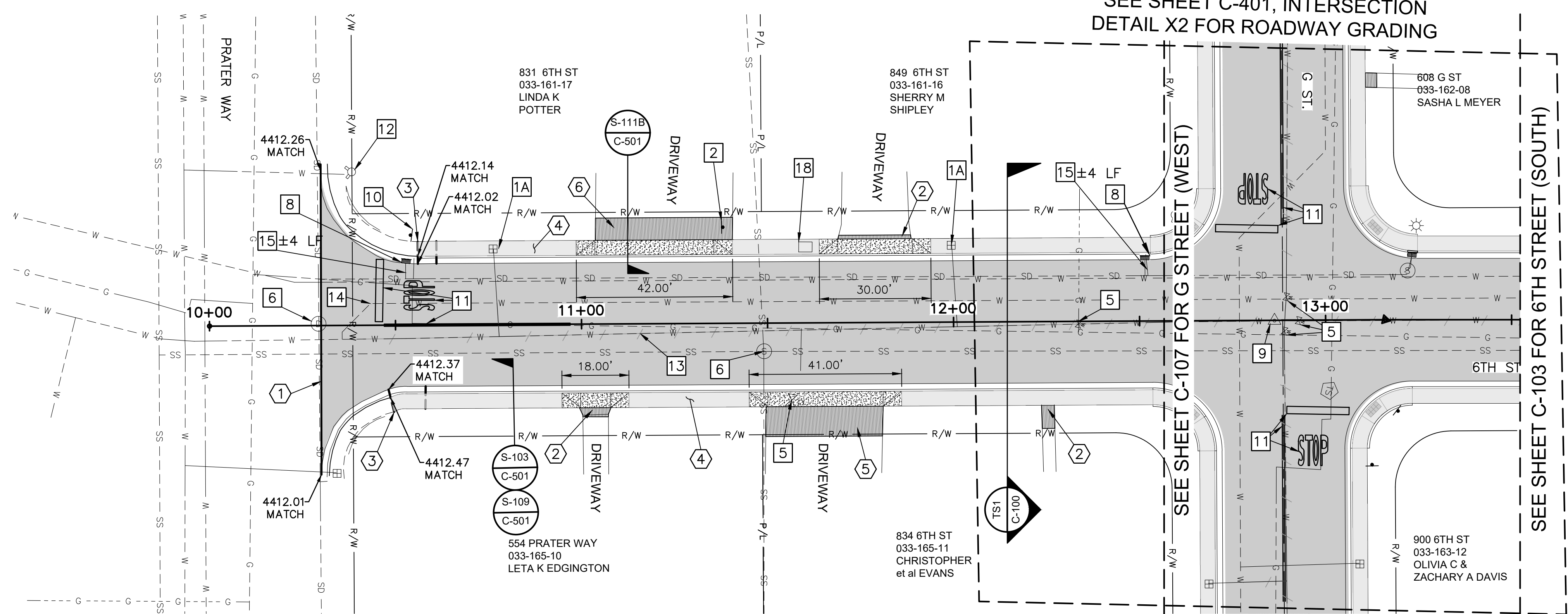
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NO.	DESCRIPTION	BY	DATE

2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 6TH STREET (SOUTH OF G) PLAN

SEE SHEET C-401, INTERSECTION  
 DETAIL X2 FOR ROADWAY GRADING



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

CONSTRUCTION NOTES:

- 1A ADJUST EXISTING WATER METERS TO FINISHED GRADE, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA. BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 1B ADJUST EXISTING WATER METERS TO FINISHED GRADE, METER BOXES THAT ARE LOCATED WITHIN DRIVEWAYS OR DRIVEWAY WINGS SHALL REQUIRE A TRAFFIC RATED BOX & LID AND WILL BE PROVIDED BY TMWA, ANY BOXES THAT HAVE EXISTING DAMAGE SHALL BE REPLACED AND PROVIDED BY TMWA. BOXES DAMAGED IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE TMWA CONSTRUCTION STANDARDS, APPENDIX 10K
- 2 PROTECT EXISTING SIGN IN PLACE
- 5 ADJUST EXISTING UTILITY VALVE TO GRADE, CONSTRUCT NEW VALVE COLLAR, SEE DETAIL NS-1, SHEET C-501. CONTRACTOR TO OBTAIN AS-BUILT PLANS INFORMATION FOR NEW WATERLINE FROM TMWA TO REFERENCE AND CONFIRM WATER MAIN, SERVICES, METERS AND VALVE LOCATIONS
- 6 ADJUST EXISTING MANHOLE RIM TO GRADE, CONSTRUCT NEW P.C.C. COLLAR, SEE DETAIL S-210A, SHEET C-502

RE-CONSTRUCTION NOTES:

- 1 SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT. FINISHED SURFACE SHALL MATCH ADJACENT EXISTING SURFACE WITH A NEAT/CLEAN EDGE
- 2 REMOVE AND REPLACE (WIDTH VARIES DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP ON DRIVEWAYS AND 4.5% SLOPE TO CATCH UP ON PATHWAYS, SEE PLANS) CONCRETE, BRICK, AND/OR PAVER TRANSITION SECTION WHERE GRADES DO NOT MATCH THE EXISTING WALKWAY, DRIVEWAY OR EXISTING CONCRETE FEATURE GRADES IF REQUIRED OR AS NECESSARY (TYPICAL OF ALL LOCATIONS UNLESS OTHERWISE SHOWN WITH DIMENSIONS), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 3 REMOVE & REPLACE 5' OF CONCRETE SIDEWALK WHERE GRADES DO NOT MATCH THE EXISTING SIDEWALK GRADES. TRANSITIONS MUST BE ADA COMPLIANT
- 4 UNLESS OTHERWISE CALLED OUT, ALL CURB, GUTTER, AND SIDEWALK SHALL BE REMOVED AND REPLACED. SEE TS1, SHEET C-100
- 5 REMOVE AND REPLACE DRIVEWAY TO COLD JOINT, ±8' FROM BACK OF WALK (USE 10% SLOPE TO CATCH UP), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT
- 6 REMOVE AND REPLACE DRIVEWAY TO COLD JOINT, ( WIDTH DEPENDING ON ELEVATION DIFFERENCE, USE 10% SLOPE TO CATCH UP), SAW CUT FULL DEPTH FOR A CLEAN VERTICAL JOINT, REPLACE WITH SAME AS EXISTING (6" WITH REBAR)

NEW CONSTRUCTION NOTES:

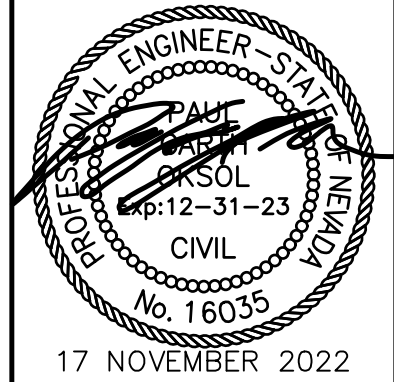
- S-103 CONCRETE SIDEWALK, SEE DETAIL
- S-109 TYPE 1 P.C.C. CURB & GUTTER, SEE DETAIL
- S-111B P.C.C. DRIVEWAY APRON, SEE DETAIL
- S-106A PEDESTRIAN RAMP, SEE DETAIL

HATCH LEGEND

HATCH DESCRIPTION	HATCH DEPICTION	ASSOCIATED SECTION/DETAIL
PROPOSED ASPHALT TYPICAL SECTION		TS1 C-100
PROPOSED CONCRETE DRIVEWAY		DRIVEWAY APRON S-111B C-501
PROPOSED CONCRETE REPLACEMENT SECTION		SIDEWALK S-103 C-501
PROPOSED POSSIBLE REM & REPL SECTION		DRIVEWAY OR WALKWAY S-103 S-111B S-112A C-501 C-501 C-502

DESIGN TABLE 6TH STREET (SOUTH) Sheet C-109

STATION	TOP BACK OF CURB (LEFT)			LIP OF GUTTER (LEFT)			SLOPE	CROWN		SLOPE	LIP OF GUTTER (RIGHT)			TOP BACK OF CURB (RIGHT)			
	OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED		EXISTING	PROPOSED		OFFSET	EXISTING	PROPOSED	OFFSET	EXISTING	PROPOSED	
10+29.99								4,412.70	4,412.70								
10+50.00								4,412.64	4,412.72								
11+00.00	18.50'	4,412.36	4,412.25	16.50'	4,412.18	4,411.99	5.2	4,412.62	4,412.85	2.5	16.50'	4,412.31	4,412.44	18.50'	4,412.39	4,412.40	
11+50.00	18.50'	4,412.48	4,412.58	16.50'	4,412.28	4,412.21	4.6	4,412.72	4,412.97	2.5	16.50'	4,412.29	4,412.56	18.50'	4,412.52	4,412.52	
12+00.00	18.50'	4,412.60	4,412.80	16.50'	4,412.35	4,412.42	4.1	4,412.82	4,413.10	2.5	16.50'	4,412.50	4,412.69	18.50'	4,412.77	4,413.07	
12+50.00	18.50'	4,412.77	4,413.02	16.50'	4,412.50	4,412.64	3.5	4,413.04	4,413.22	2.5	16.50'	4,412.63	4,412.81	18.50'	4,412.91	4,413.19	
12+71.99								4,412.78	4,413.24								

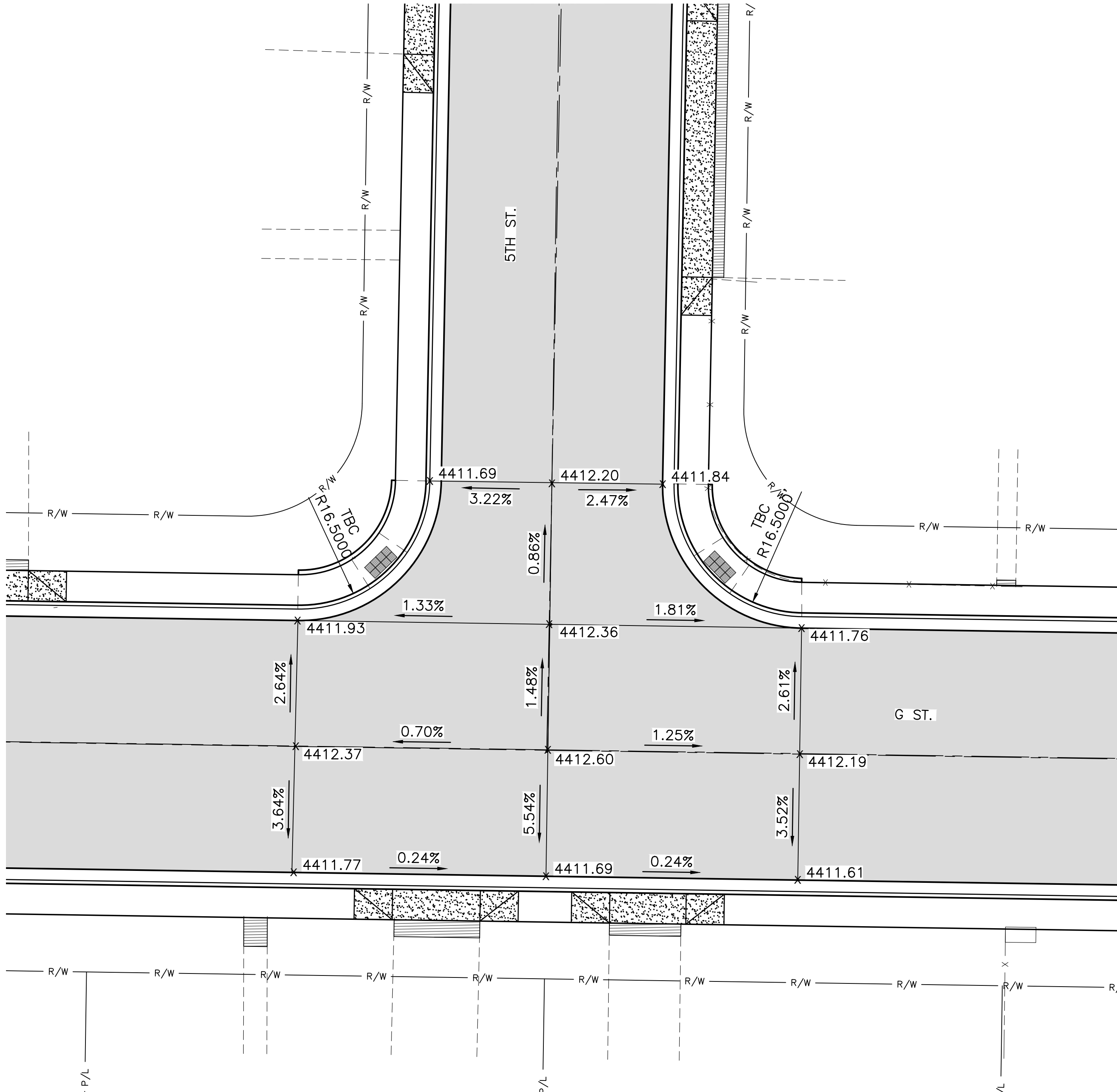


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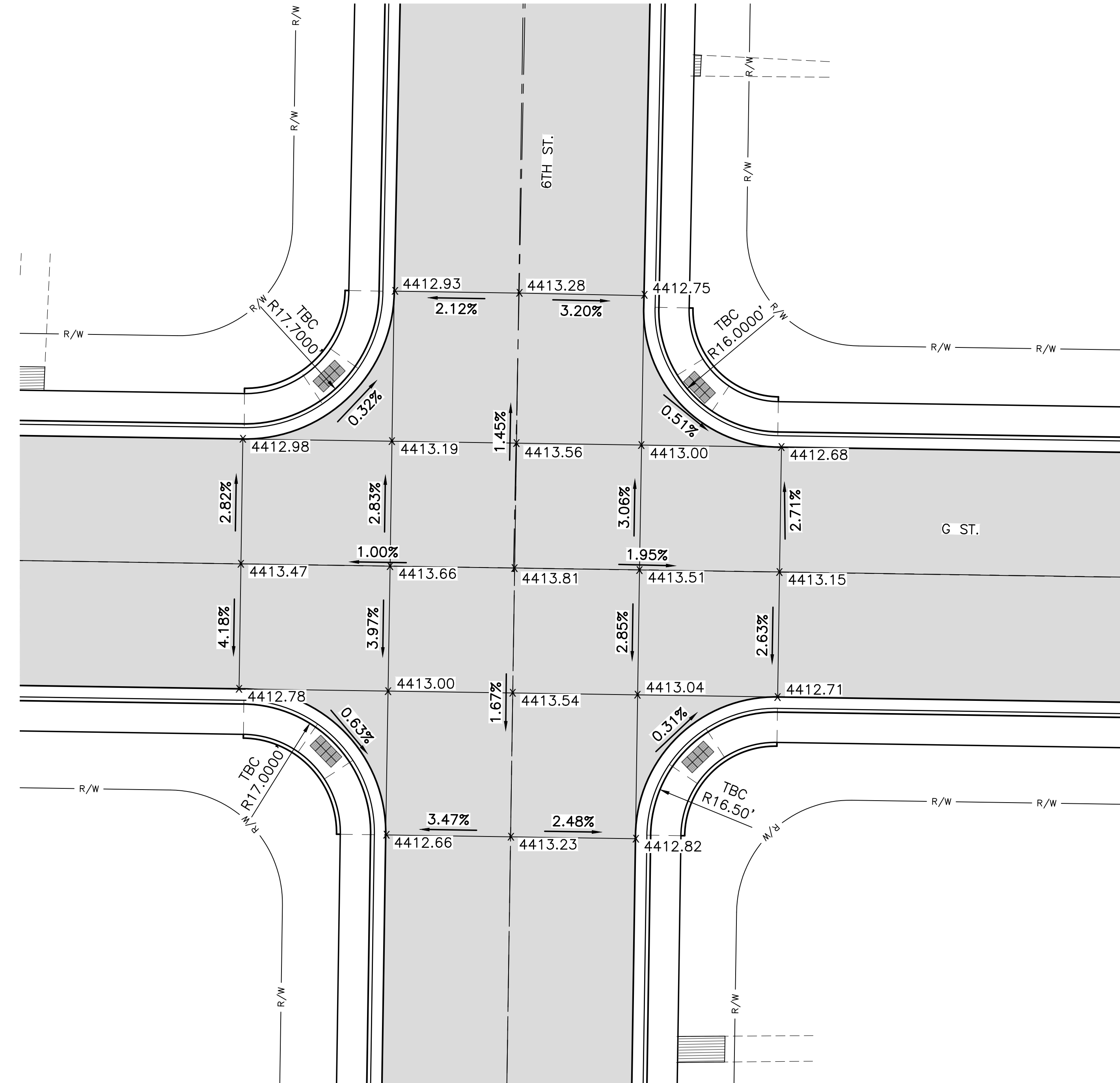
NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

**2022 DRAINAGE & ROADWAY PROJECT**  
**5TH, 6TH, 7TH & G ST**  
**5TH & 6TH INTERSECTION PLAN**

FILE: 49-21-099 C-401X
JUB PROJ. # : ---
DRAWN BY: ##
DESIGN BY: ##
CHECKED BY: ##
ONE INCH AT FULL SIZE. IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 11/17/2022
DRAWING: <b>C-401</b>
SHEET: 15 OF 18

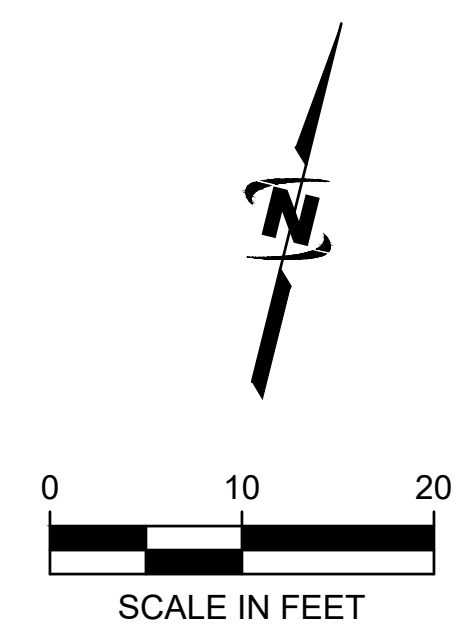


**INTERSECTION - X1**  
**5TH STREET & G STREET**

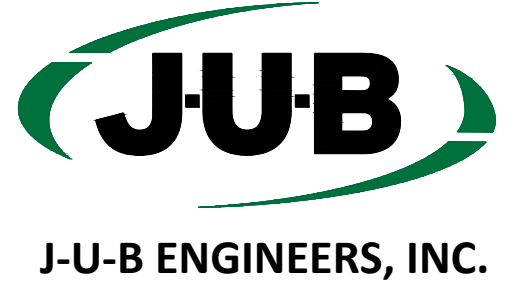


**INTERSECTION - X2**  
**6TH STREET & G STREET**

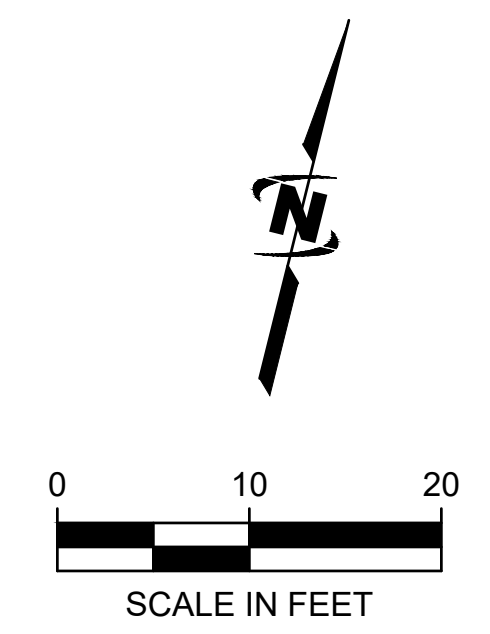
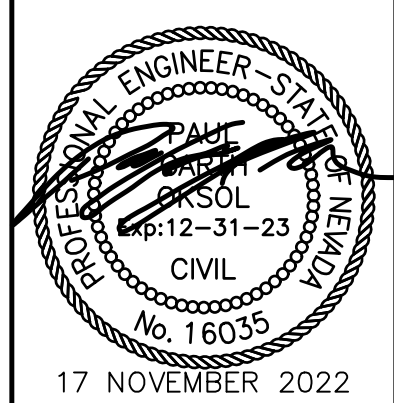
**GRADING & DRAINAGE LEGEND**  
 0.29% PROPOSED LONGITUDINAL GRADE SLOPES  
 x GRADE BREAK LOCATION



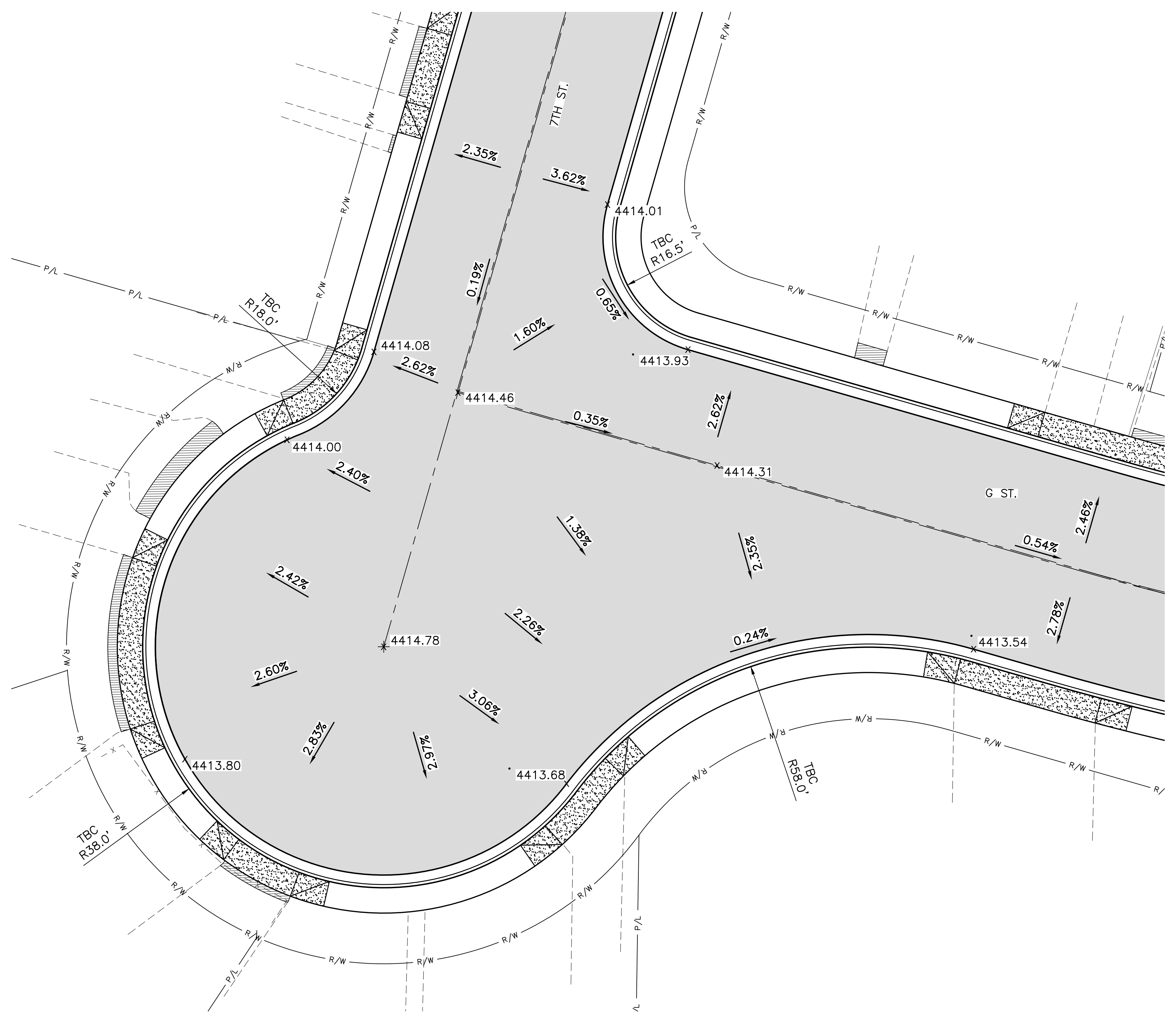
DRAWING SCALES:  
 1 INCH @ 20 SC = 22"x34" PLANS  
 1 INCH @ 40 SC = 11"x17" PLANS



Plot Date: 11/17/2022 5:06 PM Plotted By: Rachel Cave  
 Date Created: 11/15/2022 JUB\COM\CENTRAL\Clients\NV\SPARKS\CITY PROJECTS\49-21-099 SPARKS 5TH-6TH-7TH ROADWAY\DESIGN\CAD\SHEET\49-21-099 C-401X.DWG



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



INTERSECTION - X3  
 7TH STREET & G STREET

GRADING & DRAINAGE LEGEND

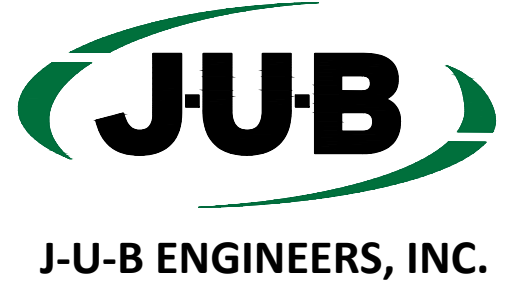
- 0.29% PROPOSED LONGITUDINAL GRADE SLOPES
- X GRADE BREAK LOCATION

REUSE OF DRAWINGS  
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NO.	REVISION	DESCRIPTION	BY	APPR.	DATE

2022 DRAINAGE & ROADWAY PROJECT  
 5TH, 6TH, 7TH & G ST  
 7TH INTERSECTION GRADING PLAN

FILE: 49-21-099 C-401X
JUB PROJ. #: ---
DRAWN BY: ###
DESIGN BY: ###
CHECKED BY: ###
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY
LAST UPDATED: 11/17/2022
DRAWING: C-402
SHEET: 16 OF 18

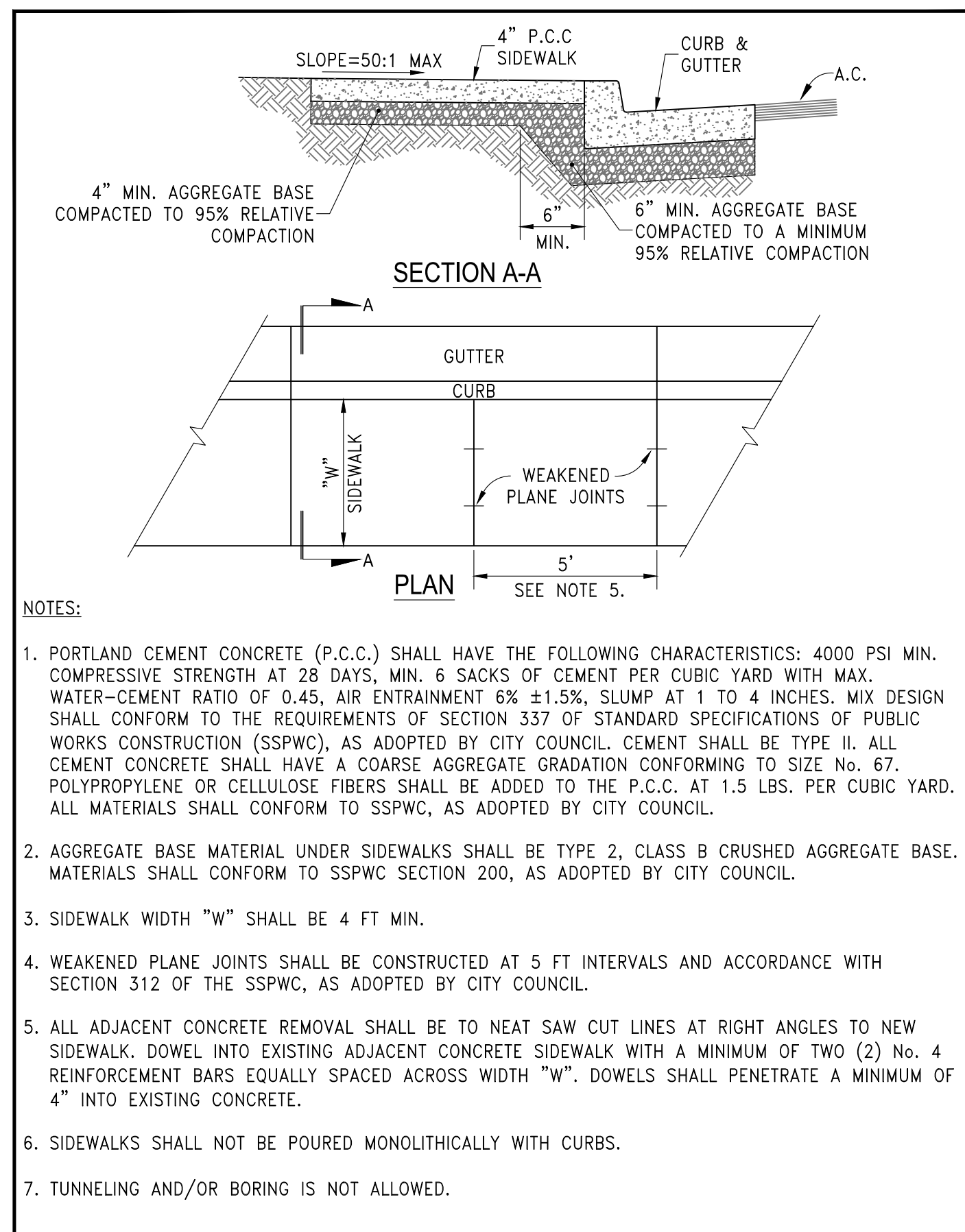
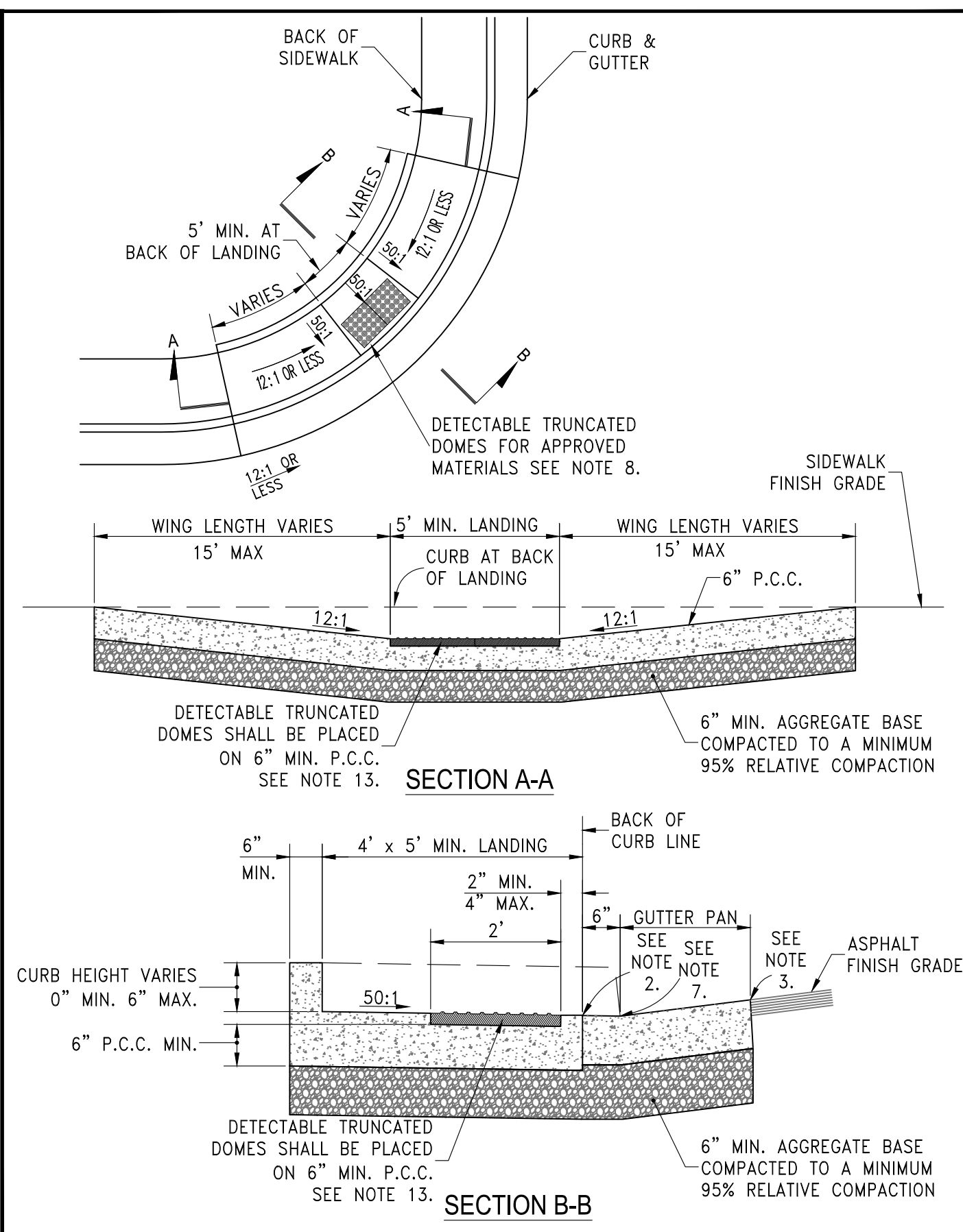
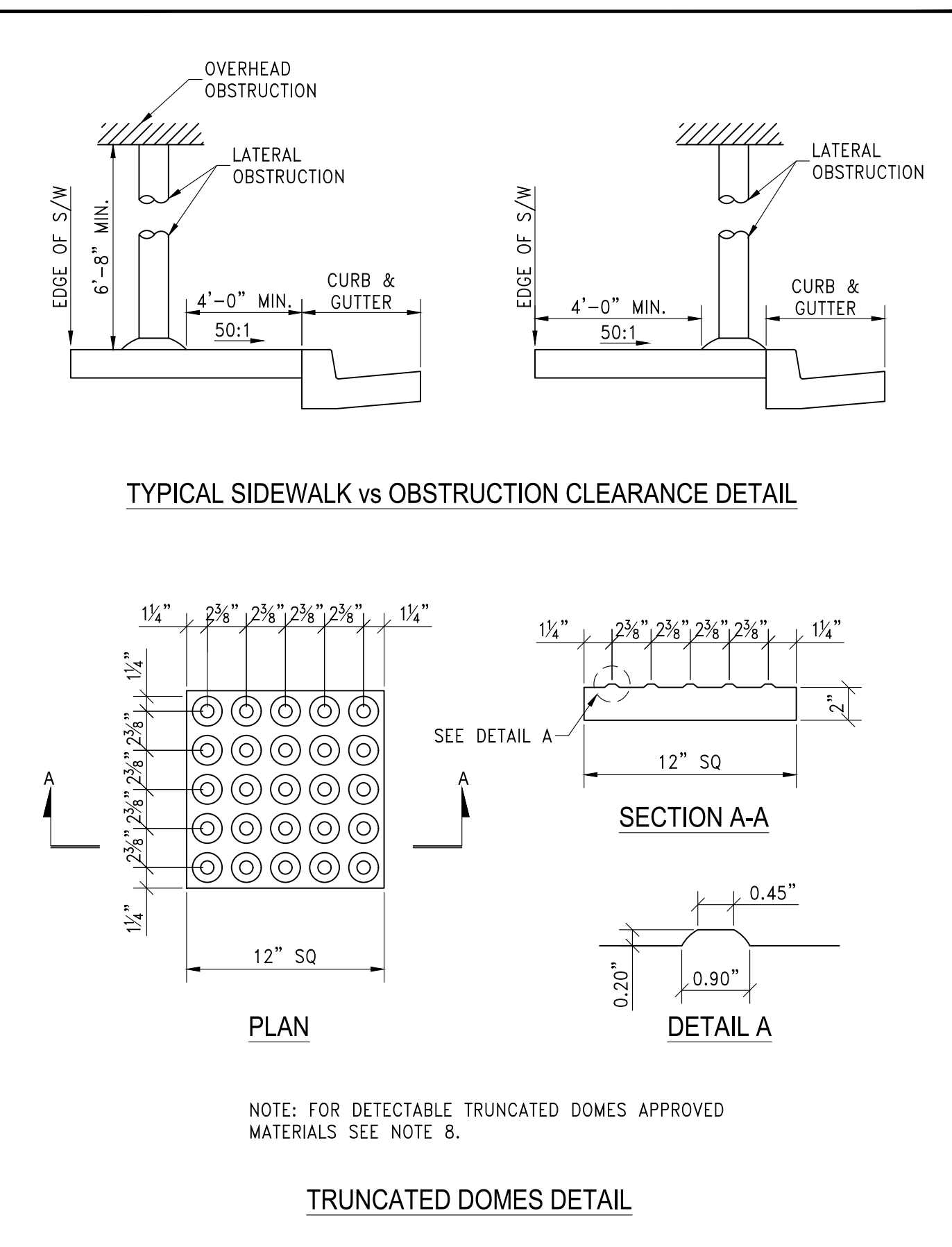


Plot Date: 11/17/2022 5:08 PM Plotted By: Rachel Cave  
 Date Created: 11/15/2022 JUB\CENTRAL\CLIENTS\SPARKS\CITY PROJECTS\49-21-099 SPARKS 5TH-6TH-7TH ROADWAY DESIGN\CAD\SHEET\49-21-099 C-401X.DWG

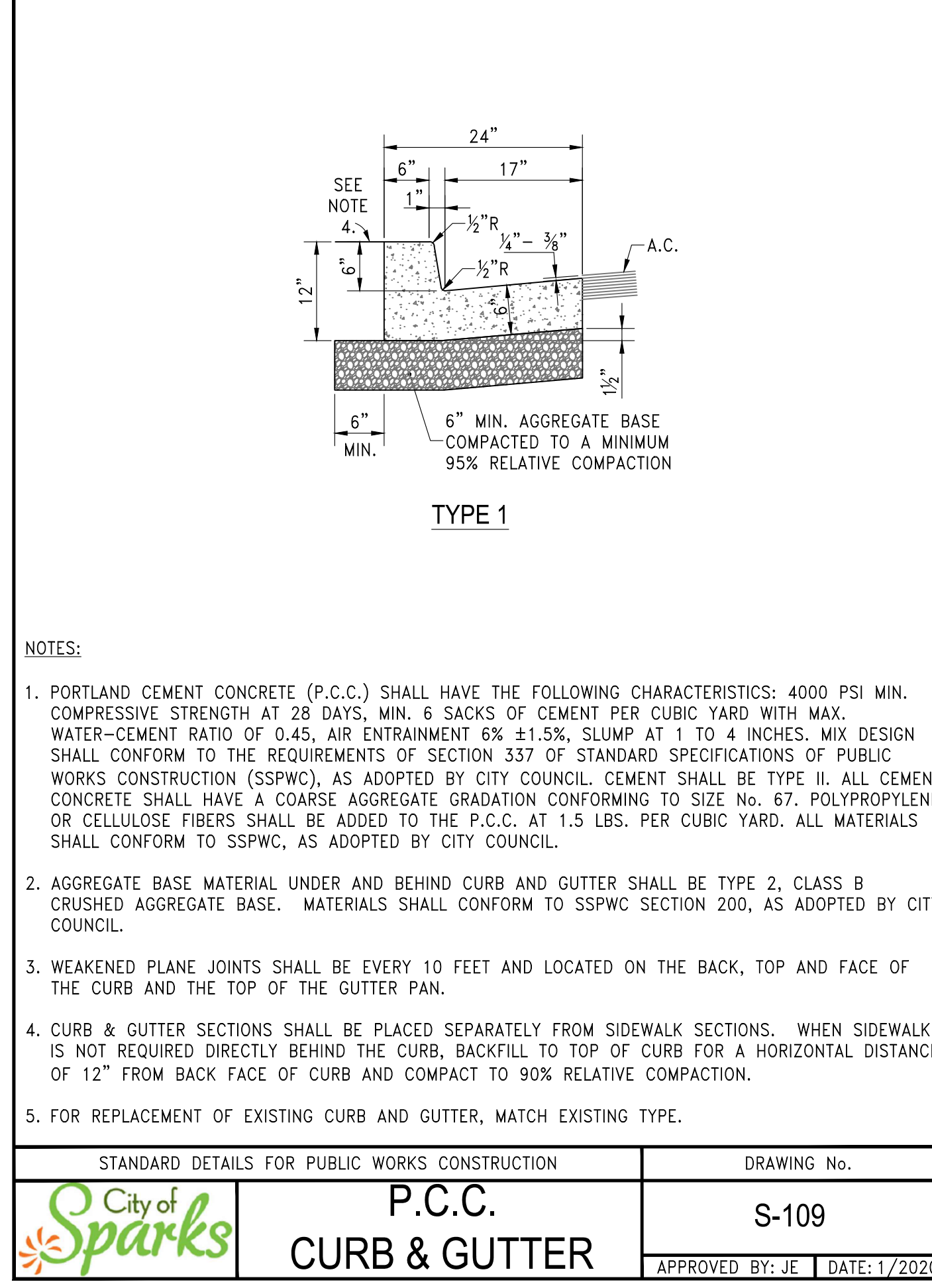
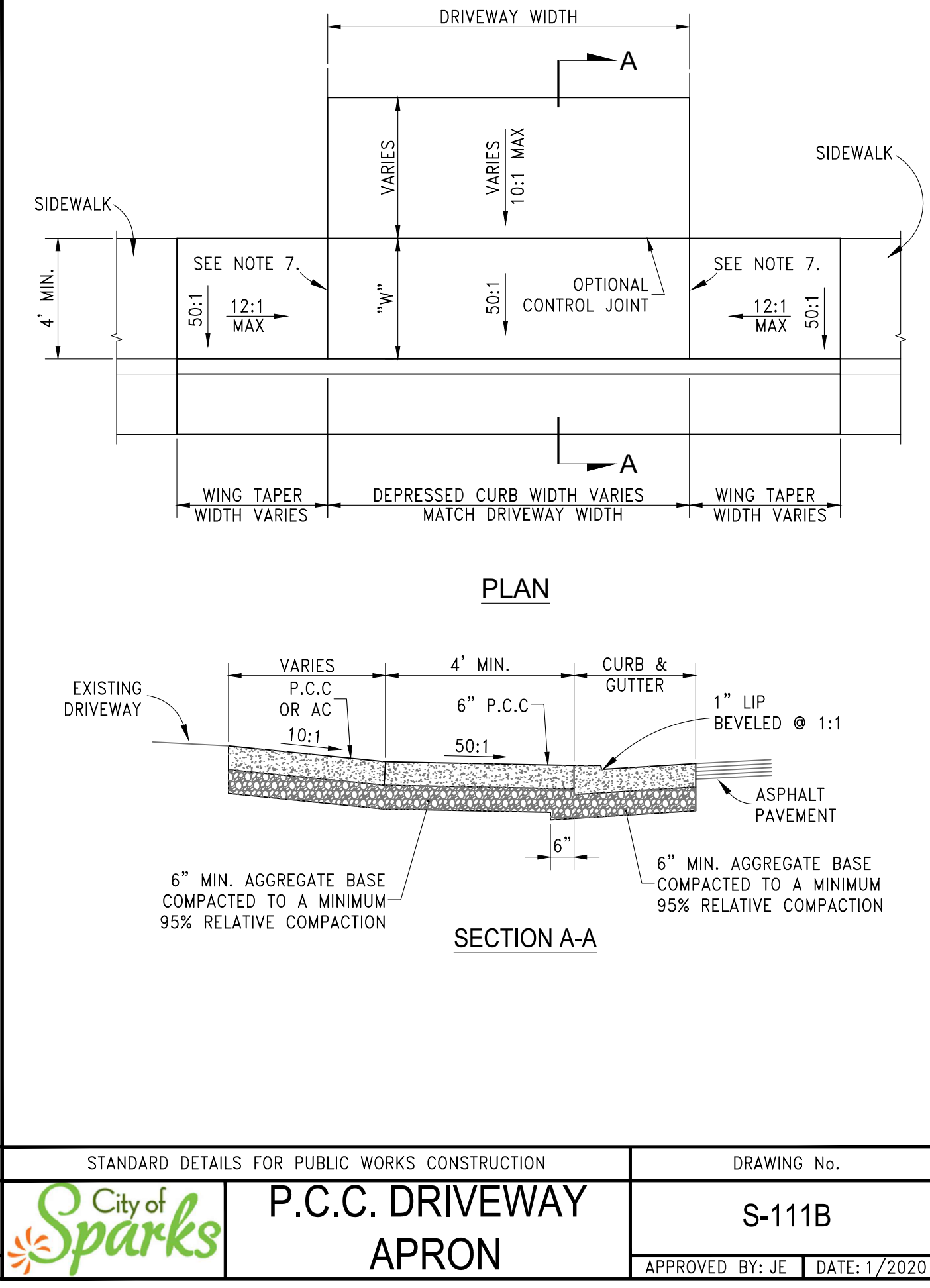
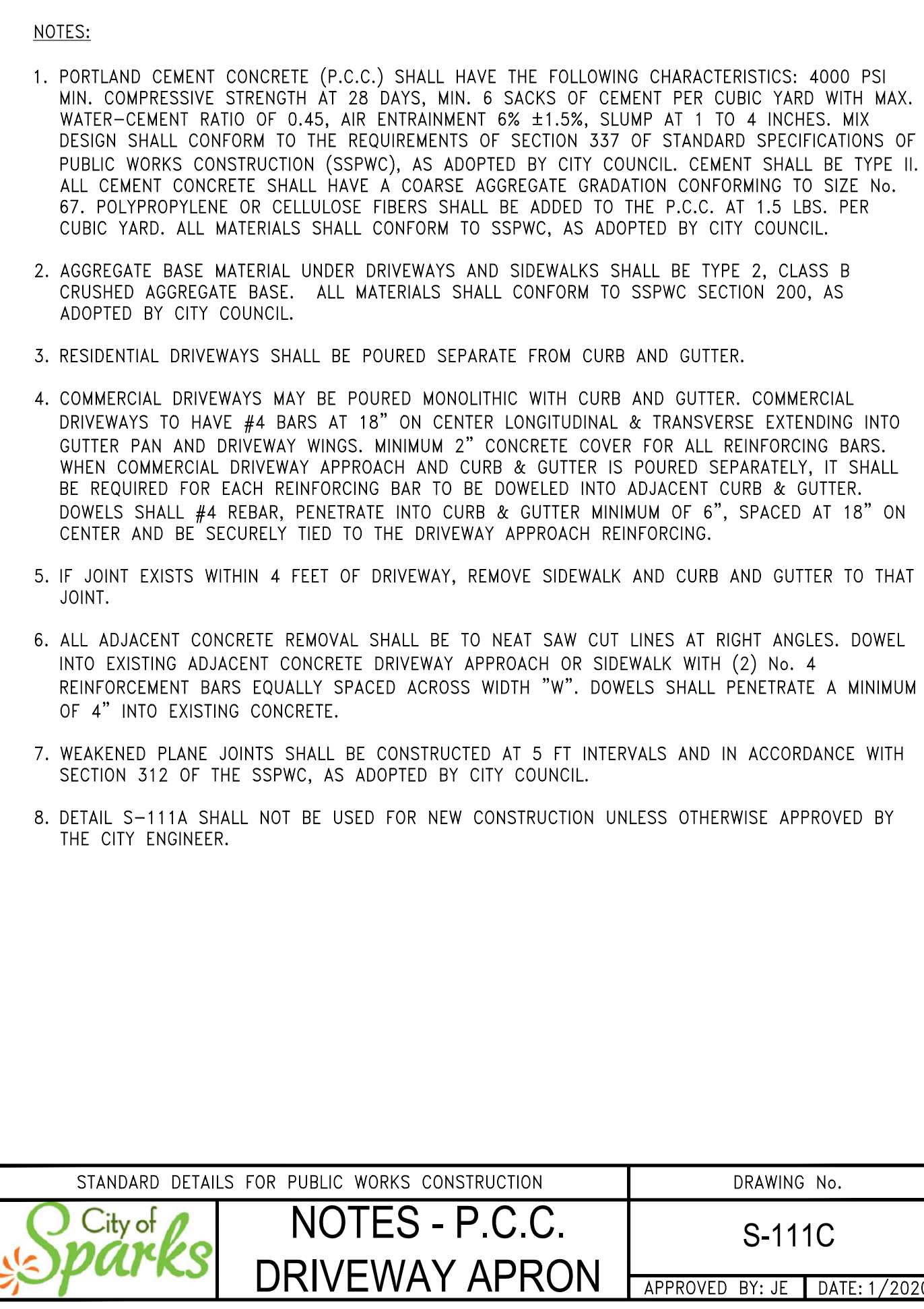
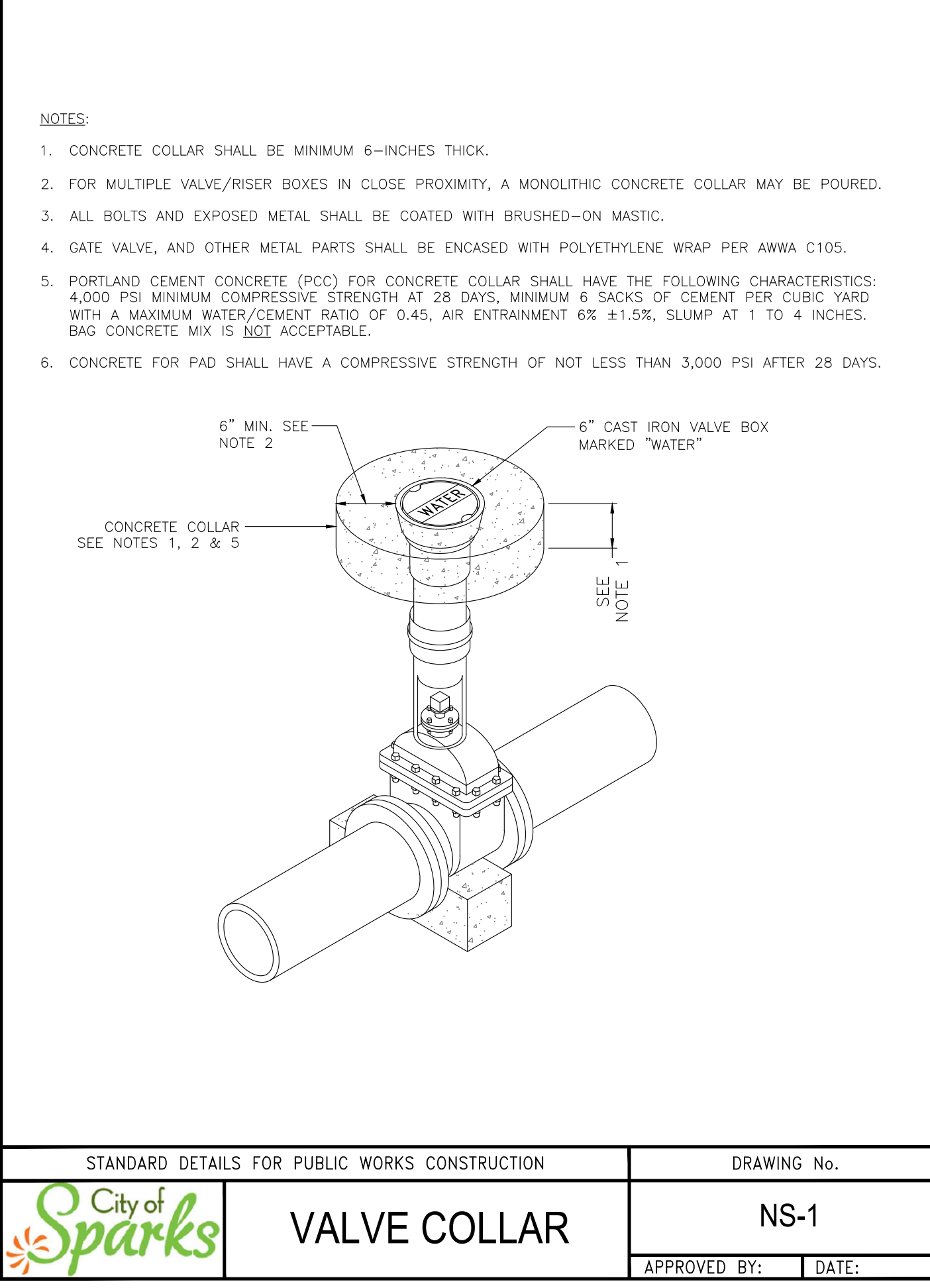


NO.	REVISION	DESCRIPTION	DATE

- 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.
- PLANTMIX BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP.
- 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: "CASTINACT 3", "TEKWAY DOME-TILES", "ADA SOLUTIONS", 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 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 COUNCIL.
- 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.
- 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.
- 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.

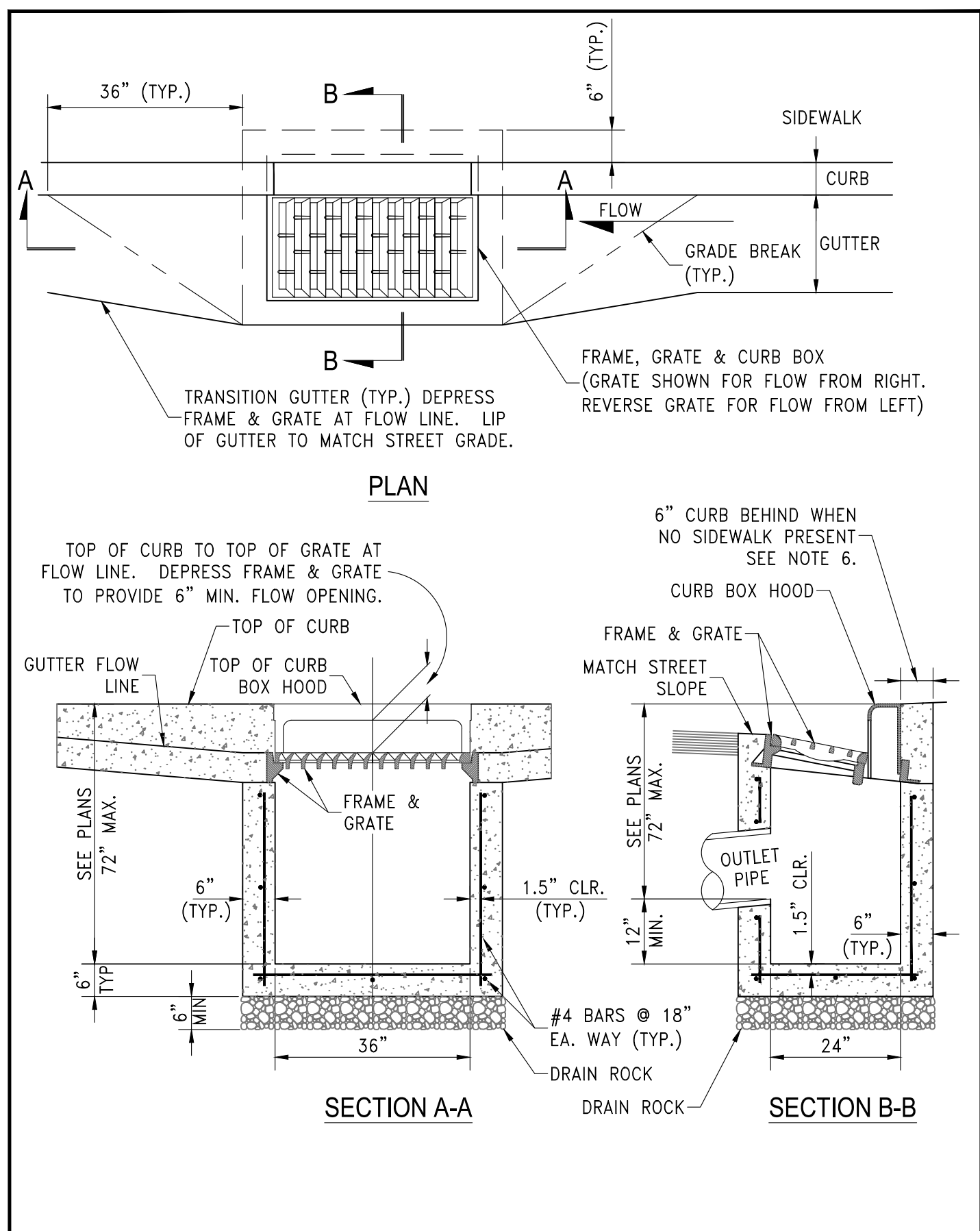


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.	STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>SIDEWALK DETAIL</b>	S-103	<b>PEDESTRIAN RAMP - EXISTING SIDEWALKS</b>	S-106A	<b>PEDESTRIAN RAMP - DETAILS</b>	S-106F	<b>NOTES - PEDESTRIAN RAMP</b>	S-106G
APPROVED BY: JE   DATE: 1/2020		APPROVED BY: JE   DATE: 1/2020		APPROVED BY: JE   DATE: 1/2020		APPROVED BY: JE   DATE: 3/2021	



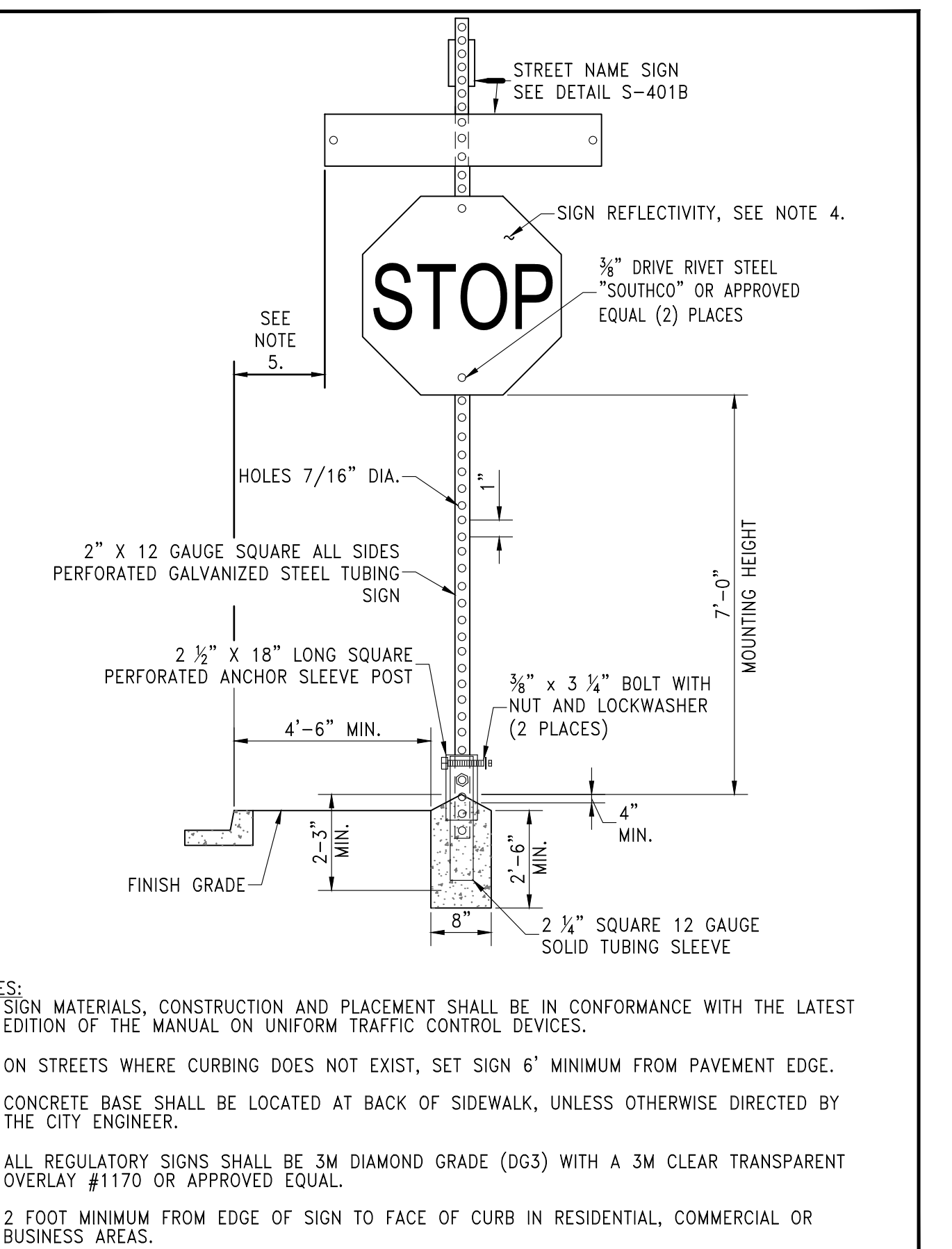
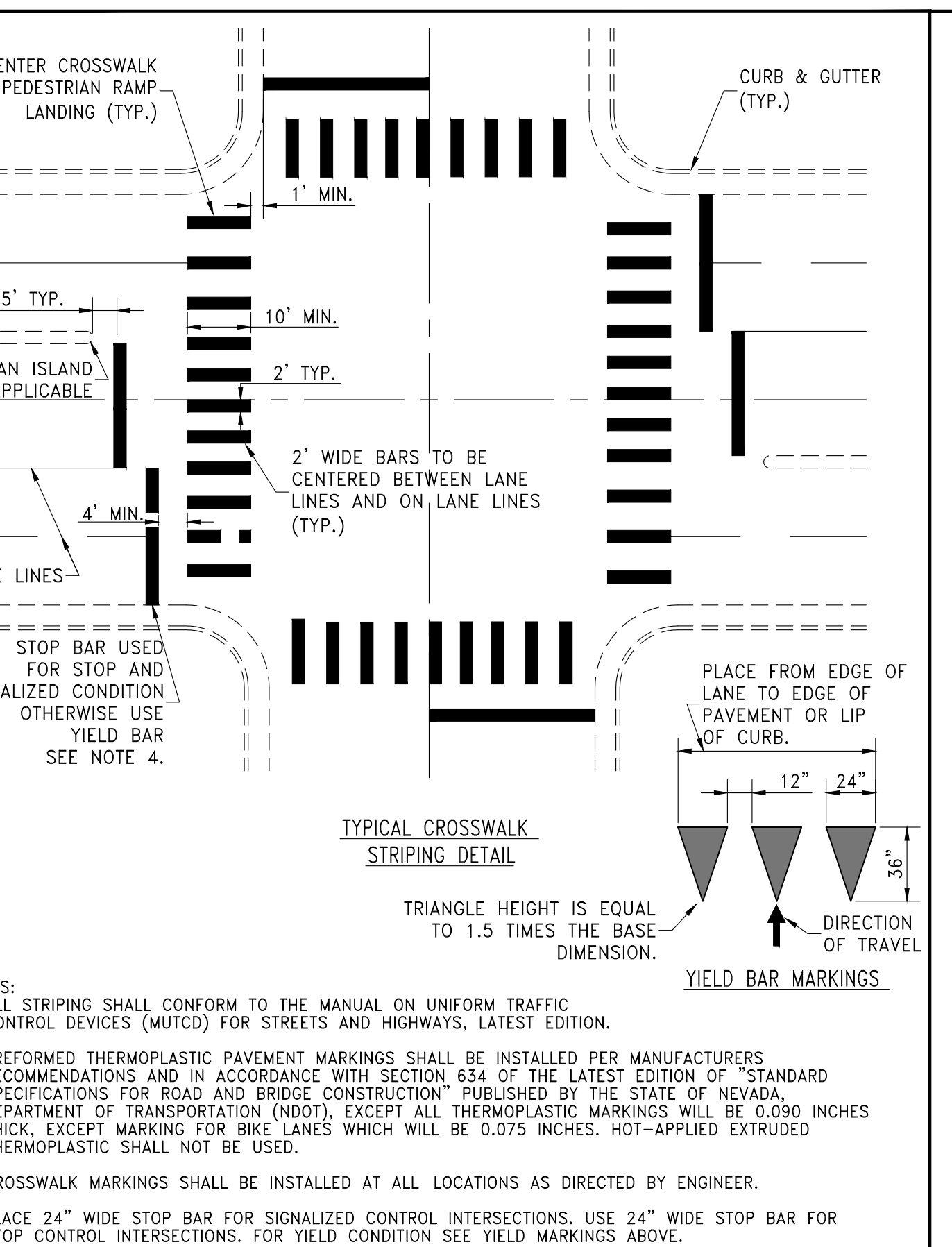
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<b>P.C.C. CURB &amp; GUTTER</b>	S-109	<b>P.C.C. DRIVEWAY APRON</b>	S-111B	<b>NOTES - P.C.C. DRIVEWAY APRON</b>	S-111C	<b>VALVE COLLAR</b>	NS-1
APPROVED BY: JE   DATE: 1/2020		APPROVED BY: JE   DATE: 1/2020		APPROVED BY: JE   DATE: 1/2020		APPROVED BY:   DATE:	

File: D:\1172022\508 PM Plotted By: Rafaela Gave Date Created: 11/15/2022\JUB\COMMON\DRAWING\CLIENT\SPARKS\CITY\PROJECT\501X\21-099 - SPARKS\_5TH-6TH-7TH - ROADWAY\DESIGN\CAD\SET\49-21-099-C-501X.DWG



**NOTES:**

- 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 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.
- 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.
- FRAME, GRATE AND CURB BOX HOOD ASSEMBLY SHALL BE D&L I-3519 WITH TYPE L "VANE GRATE" OR APPROVED EQUAL. GRATE SHALL BE INSTALLED 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).
- 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.
- FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT WITH MINIMAL GAPS.
- CATCH BASIN SHALL NOT BE PLACED WITHIN THE RADIUS OF THE CURB UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

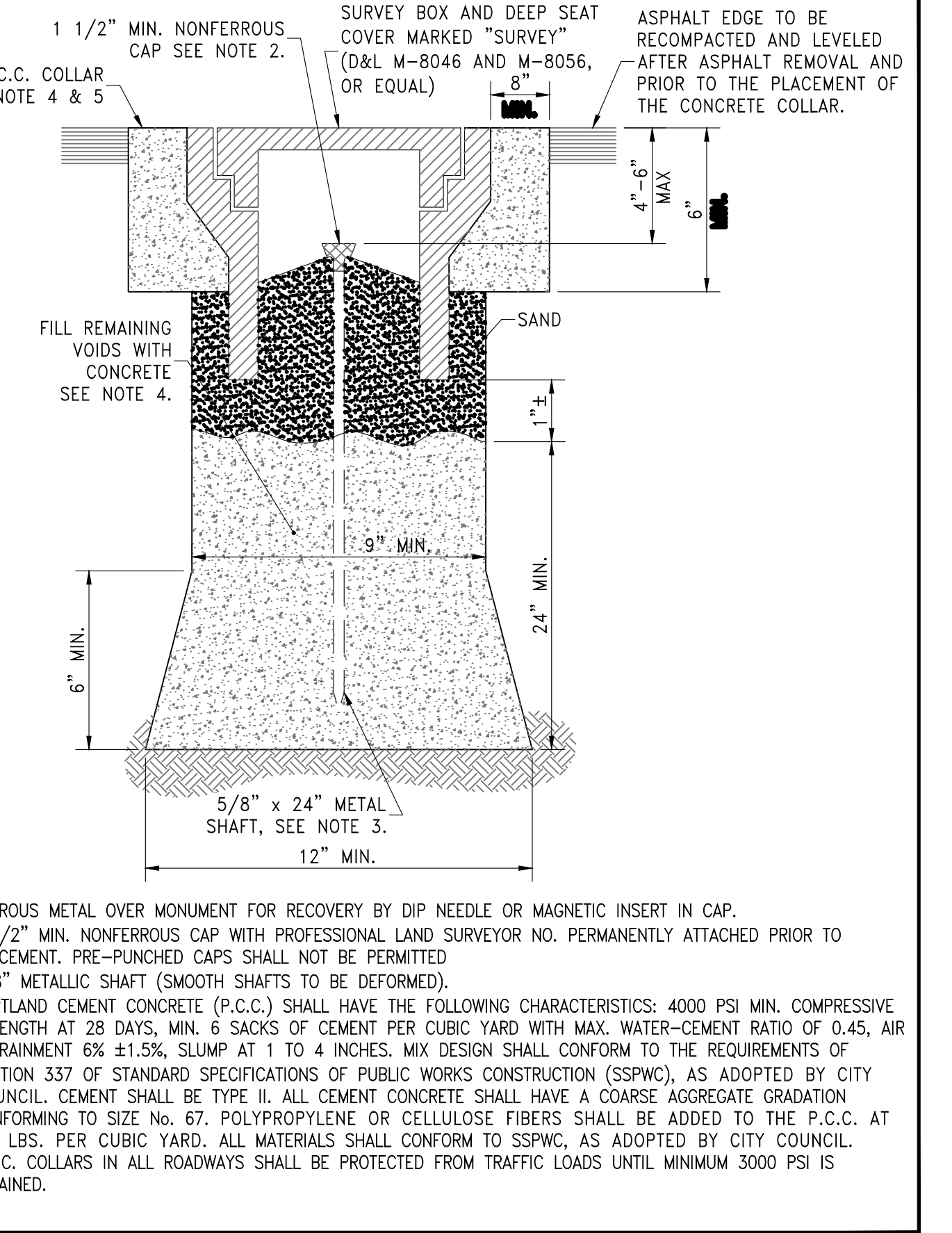
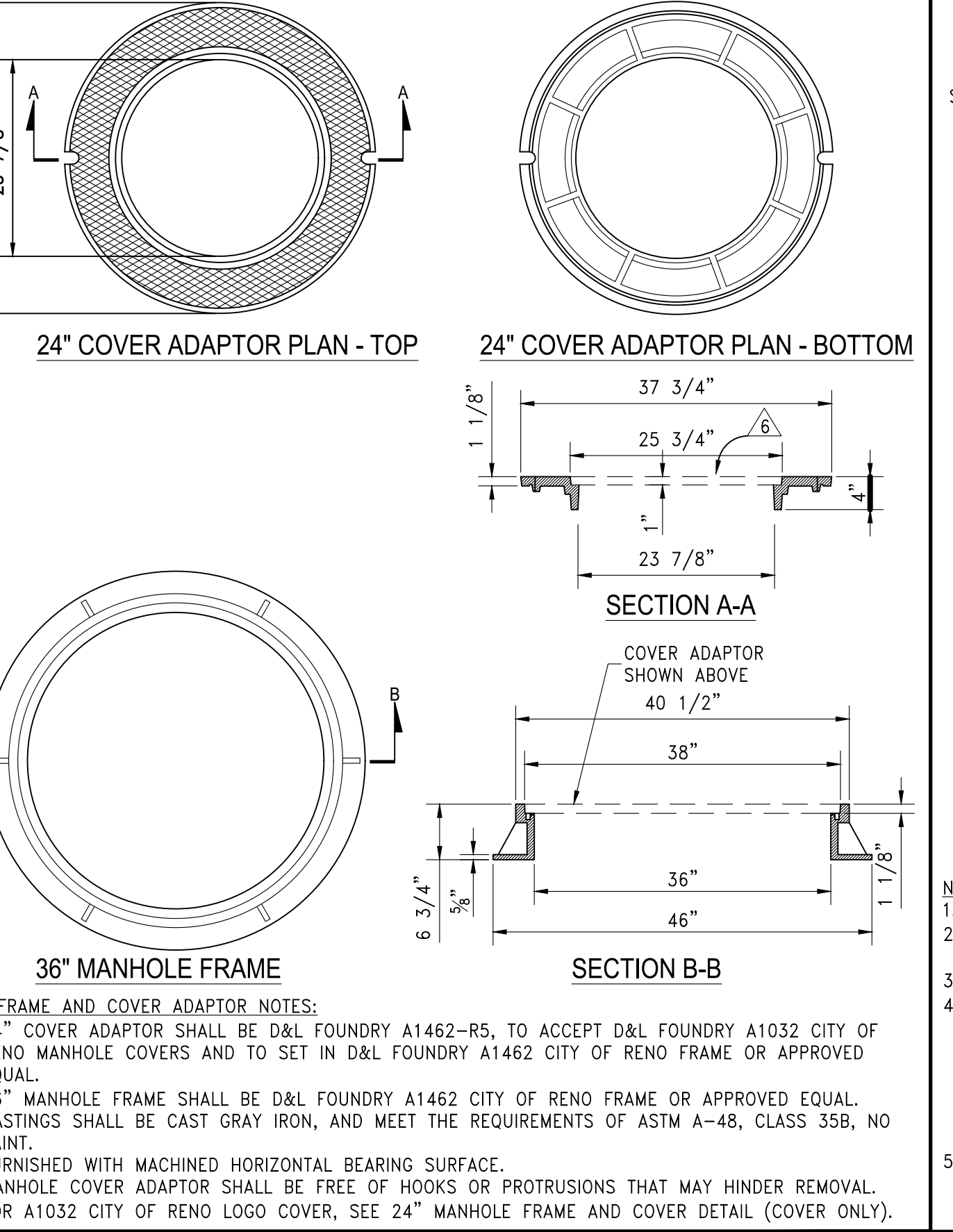
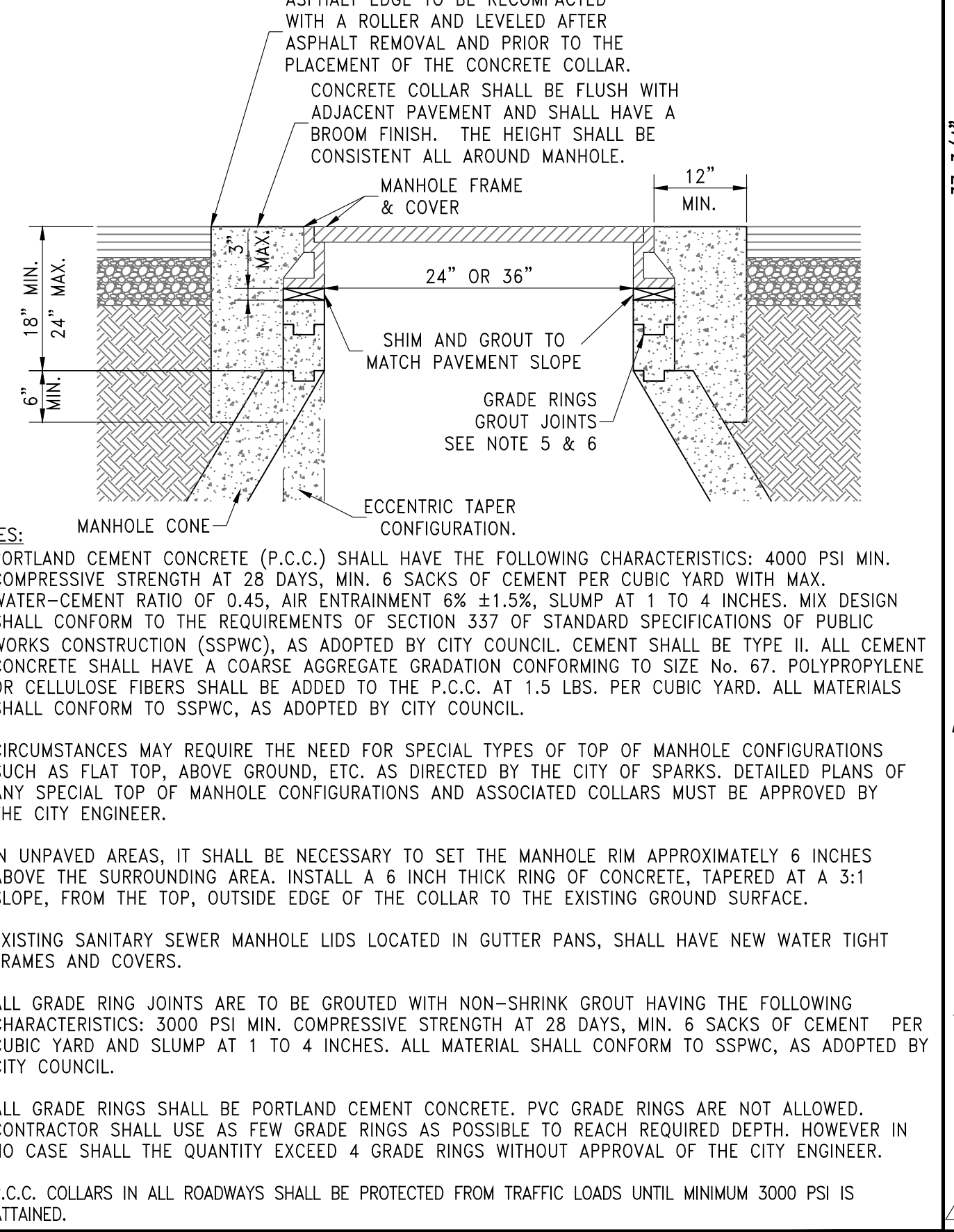
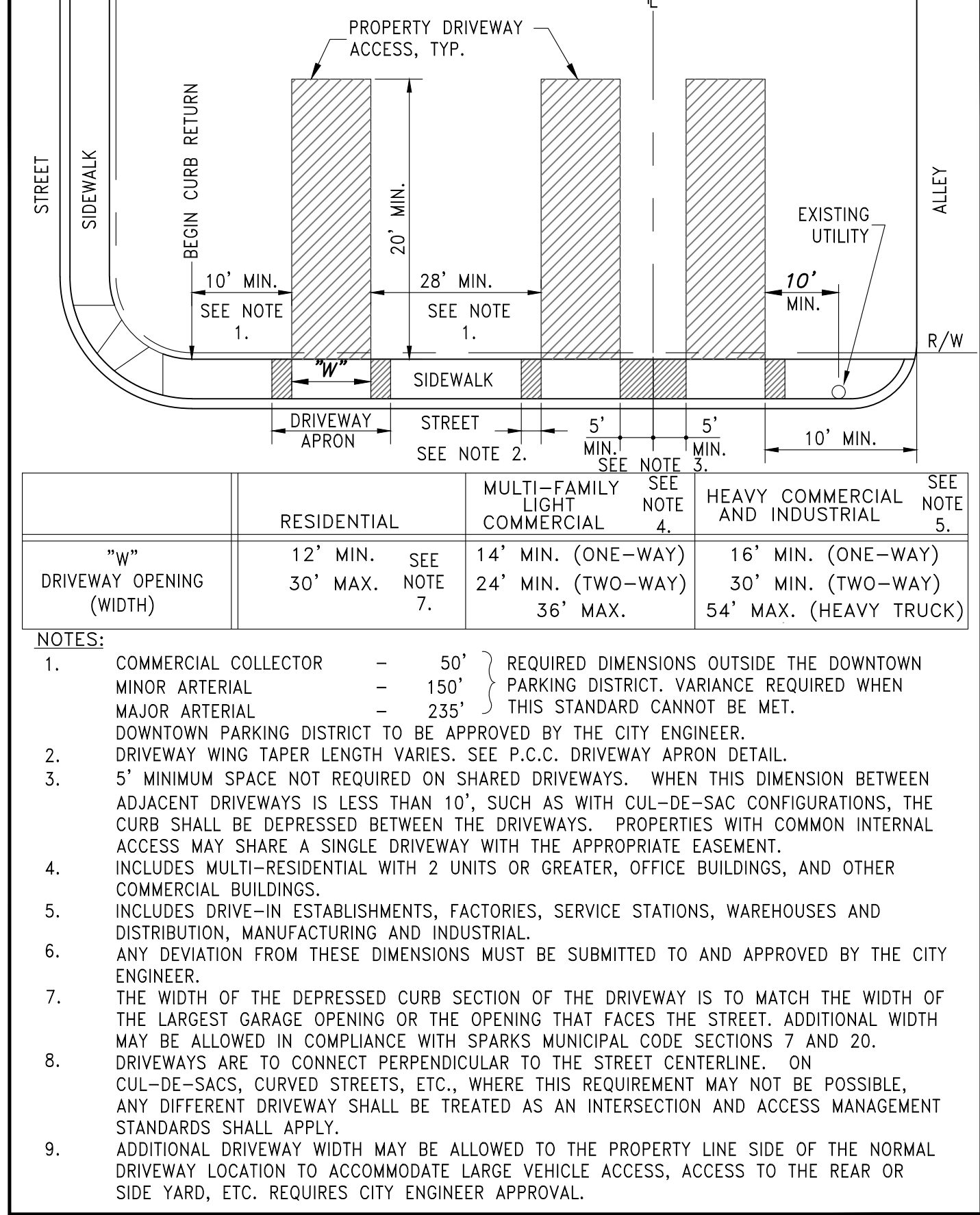


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**CATCH BASIN TYPE 4-R**  
 DRAWING No. S-204A  
 APPROVED BY: JE DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**NOTES - CATCH BASIN TYPE 4-R**  
 DRAWING No. S-204B  
 APPROVED BY: JE DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**CROSSWALK LEGEND**  
 DRAWING No. S-411  
 APPROVED BY: JE DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**TRAFFIC SIGN INSTALLATION**  
 DRAWING No. S-401A  
 APPROVED BY: JE DATE: 4/2021



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**DRIVEWAY GEOMETRICS**  
 DRAWING No. S-112A  
 APPROVED BY: JE DATE: 5/2022

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**MANHOLE COLLAR**  
 DRAWING No. S-210A  
 APPROVED BY: JE DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**36\"/>
 DRAWING No. R-214B  
 APPROVED BY: JF DATE: 3/2014**

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**MONUMENTS**  
 DRAWING No. S-118  
 APPROVED BY: JE DATE: 1/2020

**City of Sparks**

J-U-B ENGINEERS, INC.  
 5190 Neil Rd.  
 Ste. 500  
 Reno, NV 89501  
 Phone: 775.852.1440  
 www.jub.com

**Professional Engineer Seal:**  
 JUB ENGINEERS, INC.  
 No. 16035  
 17 NOVEMBER 2022

**2022 DRAINAGE & ROADWAY PROJECT**  
 5TH, 6TH, 7TH & G ST

**DETAILS**

FILE: 49-21-099\_C-501X  
 JOB PROJ: # ---  
 DRAWN BY: ---  
 DESIGN BY: ---  
 CHECKED BY: ---

AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY  
 LAST UPDATED: 11/17/2022

DRAWING: **C-502**  
 SHEET: 18 OF 18

Plot Date: 11/17/2022 5:08 PM Plotted By: Rajesh Gave  
 Date Created: 11/15/2022 JUB-CENTRAL-CALCULATED-SUB-SPARKS-CITY-PROJECT-549-21-099-SPARKS-5TH-6TH-7TH-ROADWAY-DESIGN-CAD-SHEET-49-21-099-C-501X.DWG