

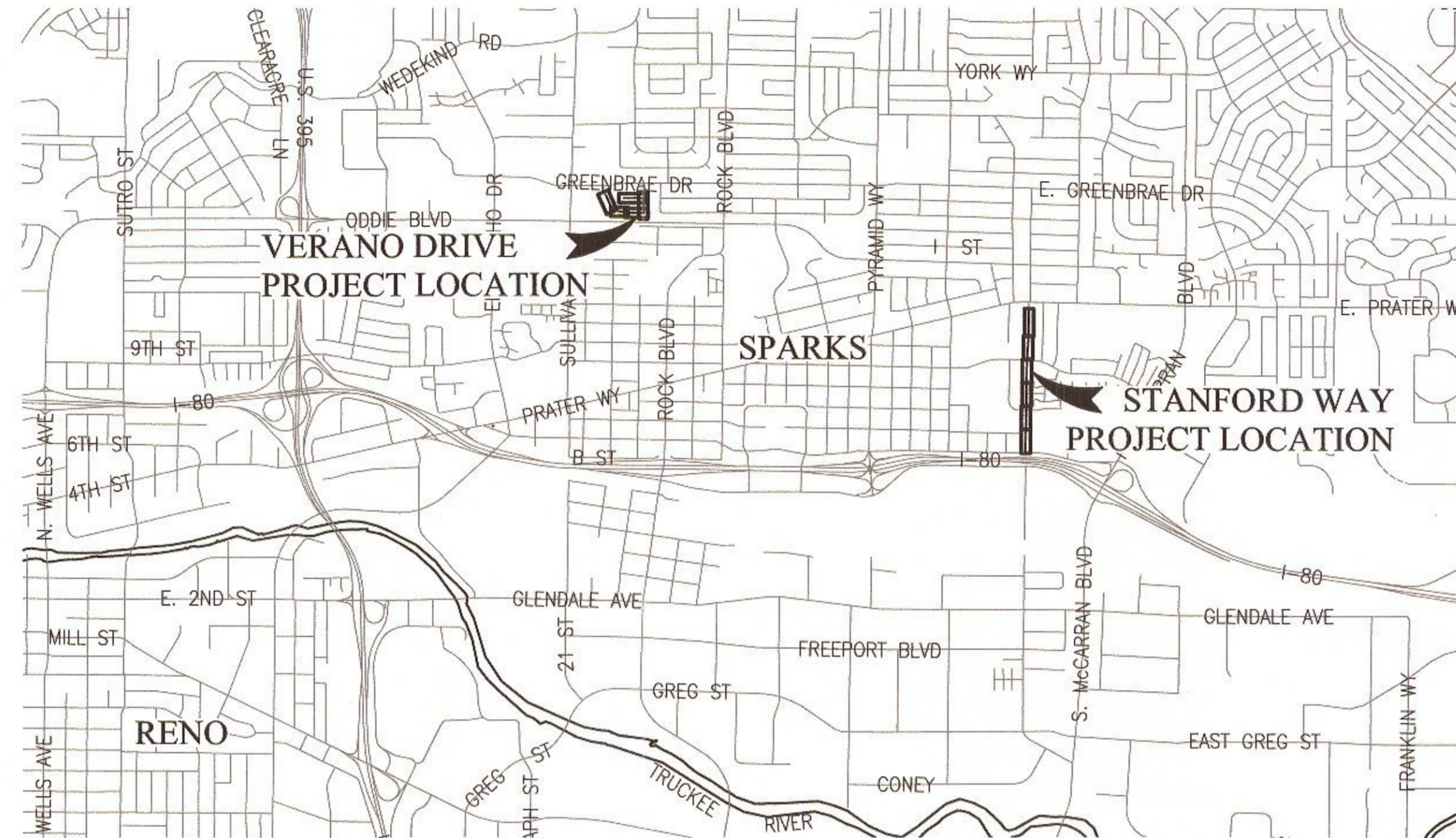
# CITY OF SPARKS

## STANFORD WAY SANITARY SEWER CIPP LINING

SPARKS, NEVADA  
 BID NO. #19/20-019 - PWP NO. WA-2020-132

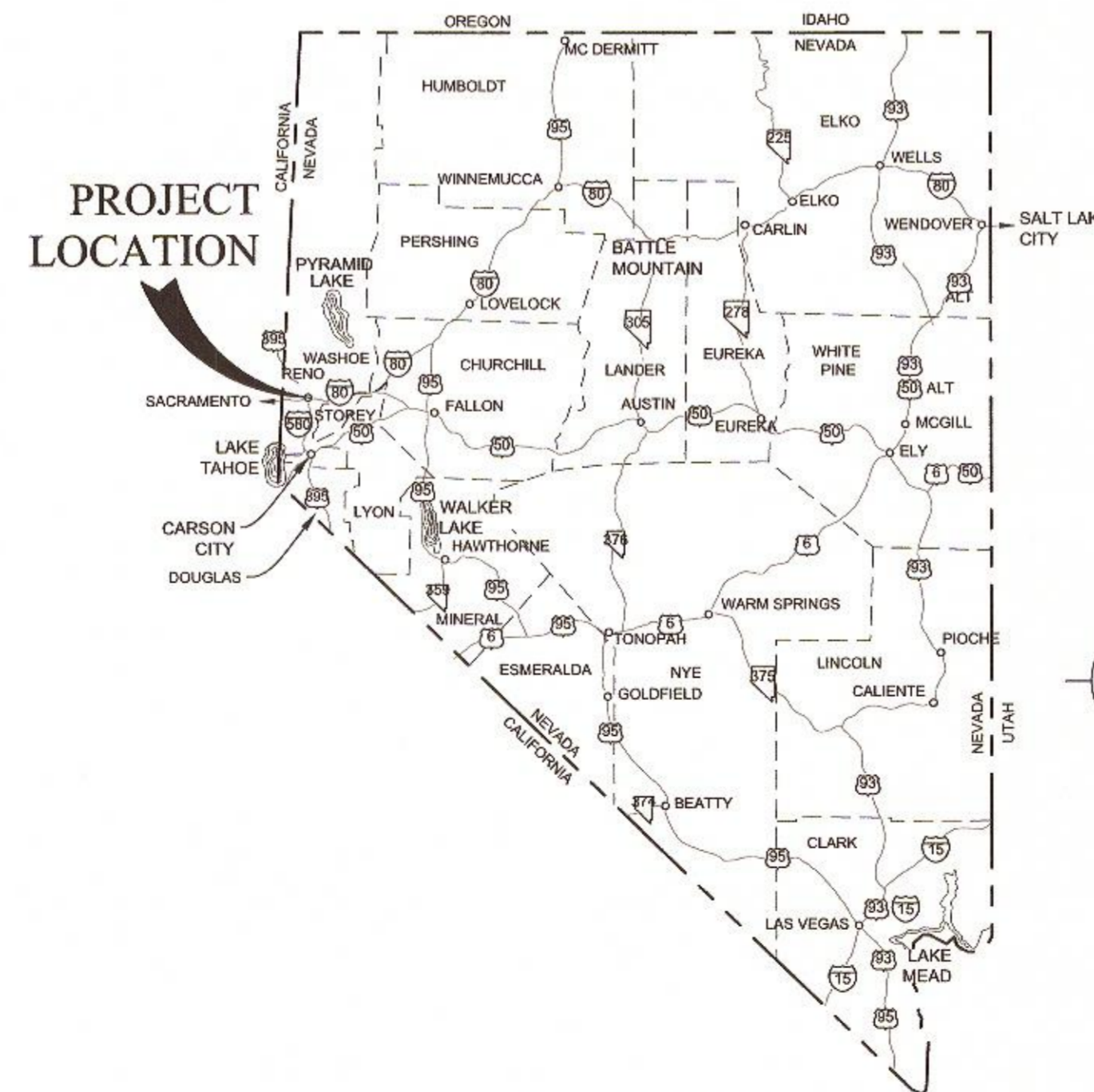
**OWNER:**  
**CITY OF SPARKS**  
 431 PRATER WAY  
 P.O. BOX 857  
 SPARKS, NV 89431-0857  
 PHONE: (775) 353-2273  
 FAX: (775) 353-2399

**ENGINEER/SURVEYOR:**  
**FARR WEST ENGINEERING**  
 5510 LONGLEY LANE  
 RENO NV 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0766




VICINITY MAP  
 N.T.S.

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LOCATION MAP  
 N.T.S.

  
 JON R. ERICSON, P.E., P.T.O.E.  
 CITY ENGINEER

1/10/20  
 DATE

CITY OF SPARKS

RONALD E. SMITH  
 DONALD ABBOTT  
 ED LAWSON  
 PAUL ANDERSON  
 CHARLENE BYBEE  
 KRISTOPHER DAHIR  
 NEIL C. KURTZ

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

BID SET



**BASIS OF BEARINGS**

NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1994, HIGH ACCURACY REFERENCE NETWORK (NAD 83/94-HARN), AS DETERMINED USING REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS WITH CORRECTIONS TRANSMITTED BY THE NORTHERN NEVADA COOPERATIVE REAL TIME NETWORK GPS (NNCRN GPS). THE BEARING BETWEEN GPS REFERENCE STATION "WVRF" - S11SM15000 AND WASHOE COUNTY CONTROL POINT "SBM 82" - N53SM01211 AND IS TAKEN AS NORTH 60°40'43" WEST. ALL DIMENSIONS SHOWN ARE GRID DISTANCES. COMBINED GRID-TO-GROUND FACTOR=1.000197939.

**BASIS OF ELEVATION**

THE BASIS OF ELEVATION IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS TAKEN FROM THE CITY OF SPARKS 2000 GEODETIC CONTROL NETWORK RECORD OF SURVEY 3885, RECORDED ON FEBRUARY 7, 2001 AS FILE 2522263, FILED IN THE OFFICIAL RECORDS OF WASHOE COUNTY, NEVADA, MONUMENT "BM 82" WITH A PUBLISHED ELEVATION OF 4399.76 FT. CITY OF SPARKS BENCHMARK "BM 82" IS DESCRIBED AS BEING A DRIVE RIVET AND 2-INCH ALUMINUM WASHER IN THE TOP OF THE CURB, 3 FEET NORTH OF THE NORTH CURB RETURN AT THE NORTHEAST CORNER OF VICTORIAN AVENUE AND NORTH MCCARRAN BOULEVARD ON NORTH MCCARRAN BOULEVARD.



FARR WEST ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.

ONE INCH AT FULL SCALE:	DATE: JANUARY 2020	SCALE: SEE SHEET	DESIGNED: CM	CHECKED: KK, GL
REVISION	BY	APP	DATE	
1771				
				
				
CITY OF SPARKS STANFORD WAY SANITARY SEWER CIPP LINING COVER SHEET				
SHEET NUMBER <b>G1</b>				
1 OF 12				

FILE SPEC: \\fwr-renewable\public\client\_projects\Sparks, City of 094\1771\_2020 CIPP Sewer Lining\5.0 Drawings\5.2 DWG\G\_Sheets.dwg  
 PLOT DATE: Jan 08, 2020 - 12:13pm

## CITY OF SPARKS PUBLIC WORKS GENERAL NOTES

- CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE PROJECT SPECIFICATIONS, AND PROJECT PLANS AND CONSTRUCTION DETAILS, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC, 2012 EDITION) AS ADOPTED BY THE CITY OF SPARKS AND THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION (SDPWC), NEVADA ADMINISTRATIVE CODE, AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. ALL SPECIFICATIONS REFERENCED HEREIN REFER TO THE PROJECT SPECIFICATION SECTION UNLESS INDICATED OTHERWISE. WHERE CONFLICTS EXIST BETWEEN SPECIFICATIONS, CONTRACTOR SHALL ADHERE TO THE STRICTER SPECIFICATION WITH APPROVAL OF THE OWNER AND INSPECTORS.
- THE CONTRACTOR SHALL CALL THE CITY OF SPARKS PUBLIC WORKS FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION, REQUIRED INSPECTIONS, AND TESTING.
- MODIFICATIONS TO THE APPROVED PLANS REQUIRE REVIEW AND APPROVAL BY THE OWNER & ENGINEER. WORK PERFORMED WITHOUT WRITTEN APPROVAL WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
- THE APPROVED PLANS, PERMITS AND INSPECTION RECORDS MUST BE ON THE JOB SITE AT ALL TIMES.
- OUTSIDE OF AN UNFORESEEN CIRCUMSTANCE SEWER MAIN SHUTDOWNS/INTERRUPTION OF SERVICE IS NOT PERMITTED UNLESS APPROVED BY OWNER AND ENGINEER AND PROPER NOTIFICATIONS ARE PROVIDED. OWNER APPROVAL IS REQUIRED 48 HOURS PRIOR TO NOTIFICATION OF CUSTOMERS. RESIDENTIAL CUSTOMERS SHALL RECEIVE 48 HOURS WRITTEN NOTICE. THE OWNER IS RESPONSIBLE FOR THE NOTIFICATION WHEN WORK IS PERFORMED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE IN ALL OTHER CASES. A LIST SHALL BE KEPT BY THE RESPONSIBLE PARTY LISTING THE DATE, TIME, AND ADDRESS OF ALL PERSONS NOTIFIED. THE CONTRACTOR WILL BE SUBJECT TO DAMAGE CLAIMS SHOULD THEY FAIL TO NOTIFY CUSTOMERS OR MAINTAIN DOCUMENTATION OF NOTIFICATION OF CUSTOMERS. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES WITHOUT AUTHORIZATION OF THE UTILITY OWNER.
- PURSUDE WORK IN A CONTINUOUS AND DILIGENT MANNER CONFORMING TO ALL PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE OWNER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL.
- MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. ALL MATERIALS SHALL BE STORED WITHIN APPROVED CONSTRUCTION AREAS ON PAVED SURFACES ONLY. CONTRACTOR SHALL STORE/CONTAIN, HANDLE AND TRANSPORT HAZARDOUS OR FLAMMABLE MATERIALS TO MINIMIZE THE POTENTIAL FOR SPILLS, FIRES OR EXPLOSIONS. STORAGE/CONTAINMENT, HANDLING AND TRANSPORT OF HAZARDOUS OR FLAMMABLE MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE OR FEDERAL REQUIREMENTS.
- CONTRACTOR SHALL MAINTAIN AND OPERATE EQUIPMENT IN A MANNER TO MINIMIZE THE POTENTIAL FOR SPILLS. SPILLS OF HAZARDOUS OR FLAMMABLE MATERIALS SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR OWNER REPRESENTATIVE.
- CONTRACTOR SHALL OPERATE VEHICLES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. VEHICLE AND EQUIPMENT OPERATORS SHALL BE PROPERLY LICENSED AND TRAINED.
- VEHICLE ACCIDENTS, INJURIES, SPILLS OR OTHER INCIDENTS SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR OWNER REPRESENTATIVE.
- ROAD SHOULDERS MAY NOT BE UTILIZED FOR OVERNIGHT EQUIPMENT AND MATERIALS STORAGE, BUT MAY BE USED FOR THE APPLICABLE SECTION OF EACH DAY'S WORK. A LAYDOWN YARD MAY BE AVAILABLE ON 4TH STREET ACROSS FROM WRIGHT WAY, CONTRACTOR SHOULD ENQUIRE WITH THE CITY OF SPARKS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS. CONTRACTOR MAY OBTAIN PERMISSIONS TO STAGE AT OTHER LOCATIONS ON OWN ACCORD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND SHALL REPLACE ANY MONUMENTS OBLITERATED OR DAMAGED DURING CONSTRUCTION AT OWN EXPENSE. REPLACEMENT SHALL BE PERFORMED BY A LICENSED PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL UTILIZE CONSTRUCTION TECHNIQUES TO MINIMIZE GRADING, VEGETATION REMOVAL, AND SURFACE DISTURBANCE. CONTRACTOR WILL BE RESPONSIBLE FOR THE RESTORATION OF ALL LANDSCAPING, SOD, CURBS, ASPHALT, DRIVEWAY PAVERS, RIP RAP, RETAINING WALLS, IRRIGATION PIPING AND LANDSCAPE LIGHTING TO EQUAL OR BETTER THAN EXISTING CONDITION. ALL COST FOR RESTORATION WILL BE INCLUDED IN THE APPLICABLE BID ITEM.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIALS TO BE USED ON THE SITE TO INCLUDE, BUT NOT BE LIMITED TO, A.C. MIX DESIGN, AGGREGATE BASE QUALIFICATIONS, PIPE BEDDING, PIPING, AND CIPP PRODUCTS PER SPECIFICATION SECTIONS 306D AND 306E TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE MANUFACTURER OR USE OF SUCH ITEMS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT AND MAKE OWN INTERPRETATIONS WITH REGARD TO MATERIALS, METHODS, AND EQUIPMENT NECESSARY TO PERFORM THE WORK REQUIRED FOR THIS PROJECT PRIOR TO BIDDING AND ORDERING MATERIALS.
- ANY HAZARDOUS MATERIALS COLLECTED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE HAZARDOUS MATERIALS LAWS AND REGULATIONS.
- CONTRACTOR SHALL EXAMINE THE PROJECT WORK AREAS PRIOR TO BIDDING TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF EXISTING SITE CONDITIONS THAT WILL BE ENCOUNTERED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS AND SUBJECT TO THE SPECIAL PROVISIONS OF THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING AND SHORING PROCEDURES AND CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY OTHER NECESSARY PERMITS AND FEES REQUIRED PRIOR TO BEGINNING WORK.

## EROSION CONTROL NOTES

- BEST MANAGEMENT PRACTICES SHALL BE IN PLACE FOR DUST CONTROL, SEDIMENT CONTROL, AND EROSION CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE EROSION OR PONDING AND TO PROTECT ADJACENT IMPROVEMENTS AND PROPERTIES FROM AN INFLUX OF RUNOFF OR SEDIMENT.
- SURPLUS OR WASTE MATERIAL AND/OR FILL OF EARTHEN MATERIAL SHALL NOT BE PLACED IN DRAINAGE WAYS.
- ALL LOOSE PILES OF SOIL, SILT, CLAY, SAND, DEBRIS OR OTHER EARTHEN MATERIALS MUST BE PROTECTED IN A REASONABLE MANNER TO PREVENT THE DISCHARGE OF THESE MATERIALS TO WATERS OF THE STATE. THESE MATERIALS MUST BE REMOVED FROM THE SITE AT THE END OF EACH WORKING DAY.
- IF NECESSARY, CONTRACTOR SHALL ENHANCE EROSION CONTROL MEASURES IN THE FIELD.
- CONTRACTOR SHALL INSTALL SEDIMENT CONTROL DEVICES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ALL GRADING AND CONSTRUCTION DEBRIS AT THE END OF EACH WORKING DAY.
- DEWATERING EFFLUENT SHALL BE TREATED PRIOR TO DISCHARGE BY MEANS OF DEWATERING STRUCTURES (e.g. STRAW BALE FILTER/SILT FENCE PIT, GRAVEL FILTER, ETC.).

## DUST CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR PREVENTING CONTROLLABLE FUGITIVE DUST FROM THE PROJECT'S DISTURBED AREAS TO BECOME AIRBORNE ON A 7-DAY/WEEK, 24-HOUR/DAY BASIS FROM COMMENCEMENT OF THE PROJECT TO FINAL COMPLETION.
- REGULAR VACUUM OR SWEEPING OF PAVED SURFACES WHERE CONSTRUCTION IS OCCURRING WILL BE PERFORMED AT LEAST DAILY AND MORE OFTEN IF NECESSARY TO REMOVE DIRT OR WASTE RESULTING FROM THE CONSTRUCTION.
- STOCKPILED EARTHEN MATERIALS SHALL BE REMOVED FROM THE SITE AT THE END OF EACH WORKING DAY.
- ALL TRUCKS IMPORTING OR EXPORTING DIRT, ROCK OR OTHER FILL MATERIALS SHALL PREVENT SPILLAGE OR LOSS OF BULK MATERIAL FROM HOLES OR OTHER OPENINGS IN THE CARGO COMPARTMENT FLOOR, SIDES, AND/OR TAILGATE. ALL HAUL TRUCKS MUST BE COVERED WITH A TARP OR OTHER SUITABLE CLOSURE; OR BULK MATERIALS MUST CONTAIN ENOUGH MOISTURE AND/OR DUST SUPPRESSANT TO PREVENT FUGITIVE DUST EMISSIONS DURING TRANSPORT; OR LOAD ALL TRUCKS SUCH THAT THE FREEBOARD IS NOT LESS THAN SIX (6) INCHES.
- ALL PROJECT RELATED VEHICLES SHALL PARK ON EXISTING PAVED SURFACES. CONTRACTOR SHALL MINIMIZE CONSTRUCTION RELATED VEHICLE AND EQUIPMENT EMISSIONS DURING CONSTRUCTION BY SHUTTING OFF EQUIPMENT AND VEHICLES NOT IN USE. IDLING OF DIESEL ENGINES SHALL BE KEPT AT A MINIMUM SO FAR AS PRACTICAL.

## ACCESS/TRAFFIC CONTROL NOTES:

- PROVIDE AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL, THROUGHOUT CONSTRUCTION, IN ACCORDANCE WITH APPLICABLE PARTS OF SSPWC SECTION 332 AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD, LATEST EDITION).
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS AT ALL TIMES. ROADS WITHIN THE PROJECT MAY HAVE LIMITED SIGHT DISTANCE.
- STREETS SHALL REMAIN OPEN TO LOCAL TRAFFIC AND ONE-WAY TRAFFIC SHALL BE PROVIDED AT ALL TIMES.
- RESIDENCES SHALL HAVE ACCESS TO/FROM DRIVEWAY AT ALL TIMES. CONTRACTOR SHALL PROVIDE COORDINATION FOR ACCESS (TRENCH PLATE, MOVE EQUIPMENT, ETC.) WITH RESIDENCES.
- TRAFFIC DELAYS SHALL BE HELD TO 10 MINUTES OR LESS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND ACCESS TO THE SITE PRIOR TO BID.
- CONTRACTOR SHALL DETERMINE BEST METHODS FOR ACCESS WHEN OFF HAULING WASTE, DELIVERY OF MATERIALS, AND DAY TO DAY ACTIVITIES.
- TRAFFIC CONTROL PLANS TO BE SUBMITTED TO CITY OF SPARKS FOR REVIEW. SUBMIT TRAFFIC CONTROL PLANS TO:  
NAME: ASHLEY ELSON  
TEL: (775)353-2375  
EMAIL: AELSON@CITYOFSPARKS.US  
OFFICE LOCATION: SPARKS CITY HALL, 431 PRATER WAY, SPARKS, NV 89431
- THE HOURS OF WORK SHALL BE FROM 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAY; WEEKEND WORK UPON APPROVAL BY CITY ENGINEER.
- THE WORK OF SETTING UP AND TEARING DOWN TRAFFIC CONTROL DEVICES AS REQUIRED SHALL BE COMPLETED EACH DAY WITHIN THE HOURS SPECIFIED ON THE PERMIT AND/OR ON THE APPROVED TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLETELY REMOVED FROM THE ROADWAY AT THE END OF EACH WORKING DAY.

## ASPHALT AND PAVING NOTES

- TEMPORARY PAVEMENT SHALL MEET THE REQUIREMENTS OF THE SSPWC. THE CONTRACTOR SHALL MAINTAIN PAVEMENT IN A SAFE AND SMOOTH CONDITION UNTIL FINAL PAVEMENT CAN BE PLACED, TO THE SATISFACTION OF THE ENGINEER AND THE EXCAVATION AND ENCROACHMENT PERMIT.
- PERMANENT ASPHALT CONCRETE PAVEMENT PATCH SHALL MEET THE REQUIREMENTS OF THE SSPWC, THE EXCAVATION AND ENCROACHMENT PERMITS, AND SHALL UTILIZE PG 64-28 NV MIX.

## EXISTING UTILITY GENERAL NOTES

- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND DEPTHS ARE UNKNOWN. CONTRACTOR IS RESPONSIBLE FOR EXACT FIELD LOCATIONS.
- UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE PLANS. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY ACTUAL LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL UNDERGROUND SERVICES ALERT, USA, AT (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE EXISTING UTILITIES SURROUNDING THE AREA THAT HAVE THE POTENTIAL TO CONFLICT WITH THE PROPOSED WORK AND DETERMINE THE EXACT LOCATION AND DEPTH. POTHOLING SHALL OCCUR A MINIMUM OF 7 DAYS PRIOR TO THE COMMENCEMENT OF WORK IN ANY AREA. CONTRACTOR SHALL REPORT THE FINDINGS TO THE ENGINEER WITHIN 24 HOURS AFTER COMPLETION.
- THE CONTRACTOR SHALL COORDINATE UNDERGROUND CONSTRUCTION IN SUCH A MANNER AS TO PREVENT ANY CONFLICT WHERE UTILITY LINES CROSS.
- RELOCATION OF EXISTING UTILITIES SHALL BE DONE UNDER THE DIRECTION OF THE UTILITY HAVING JURISDICTION OVER THE UTILITY IN QUESTION.
- IF ANY UNKNOWN SUBSURFACE STRUCTURES ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO PROCEEDING.

## BYPASS PUMPING NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL CONSTRUCTION ACTIVITIES TO PROPERLY CONTROL AND DISPOSE OF RAW SEWAGE FROM EACH CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND LAWS FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL SUPPLY ALL NECESSARY EQUIPMENT AND WORK TO MEET THIS REQUIREMENT.
- CONTRACTOR TO PROVIDE TEMPORARY CONNECTION TO NEW MAIN OR BYPASS PUMPING TO PROVIDE UNINTERRUPTED FLOW TO THE SYSTEM NOT BEING WORKED ON. SEWER TO BE COUPLED TO EX AND FLOW RE-ESTABLISHED AT END OF EACH DAY.
- REFER TO SPECIFICATION SECTION SECTION 306A - BYPASS PUMPING FOR ADDITIONAL REQUIREMENTS.

## IN-SITU CONSTRUCTION GENERAL NOTES

- IDENTIFIED EXISTING SEWER MAINS AND LATERALS SHALL RECEIVE CURED-IN-PLACE PIPE (CIPP). REFER TO SPECIFICATION SECTION 306E FOR INFORMATION.
- CONTRACTOR TO PRE CLEAN AND VIDEO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ALL CIPP SHALL HAVE A COLOR TELEVISION INSPECTION PRIOR TO ACCEPTANCE BY OWNER.
- NOTE THAT MAIN AND LATERAL SIZES ARE SHOWN BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL CONFIRM AND NOTIFY THE ENGINEER OF ANY SIGNIFICANT ALTERATIONS PRIOR TO PROCURING MATERIALS.

## GRAVITY SEWER POINT REPAIR GENERAL NOTES

- CONTRACTOR SHALL ASSUME EXTERNAL POINT REPAIRS ARE TO BE MADE WITH REINFORCED CONCRETE PIPE OF LIKE DIAMETER TO THE EXISTING PIPE. PRIOR TO ORDERING PARTS, CONTRACTOR DETERMINE THE ACTUAL INNER DIAMETER OF THE EXISTING SEWER MAIN AT THE LOCATION OF THE POINT REPAIR. CONTRACTOR SHALL ORDER WHICHEVER TYPE IS EQUAL TO OR SLIGHTLY GREATER THAN THE EXISTING I.D., INCLUDING, PVC SDR35 OR SDR26, AND PVC C900 PC165 PC235 OR PC305.
- FLEXIBLE TRANSITION COUPLINGS ARE REQUIRED WHEN CONNECTING SEWER POINT REPAIR SEGMENTS TO EXISTING ADJACENT MAINS. COUPLINGS SHALL BE FERNCO STRAIGHT OR TRANSITION COUPLINGS OR APPROVED EQUAL.
- NEW PVC TO NEW PVC COUPLINGS SHALL BE GASKETED PUSH ON PVC.
- MARKING TAPE SHALL BE INSTALLED 12" ABOVE ALL SEWER MAINS AND LATERALS. TAPE WIDTH SHALL BE TWO (2) INCHES; THICKNESS SHALL BE FOUR (4) MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED SEWER LINE BELOW" OR EQUIVALENT WORDING.
- CONTRACTOR SHALL CONNECT ALL EXISTING SEWER LATERALS TO THE NEW MAIN USING A SEWER LATERAL WYE CONNECTION DETAIL B/D2. UNLESS OTHERWISE APPROVED.

## SEWER LATERAL NOTES - REQUIRES CONFIRMATION

- LATERALS SHOWN ARE APPROXIMATE LOCATIONS THAT HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL VERIFY ALL LATERAL LOCATIONS DURING CONSTRUCTION. ALL SANITARY SEWER LATERALS HAVE NOT BEEN VERIFIED AS ACTIVE LATERALS. CONTRACTOR SHALL VERIFY THAT ALL SANITARY SEWER LATERALS ARE ACTIVE OR INACTIVE PRIOR TO THE INSTALLATION OF ANY MAIN LINE SANITARY SEWER PIPE SEGMENT (MH TO MH). EACH ACTIVE SEWER LATERAL WHERE FLOW IS EVIDENT BY SIMPLE VISUAL INSPECTION SHALL BE RECONNECTED.
- IF NO INDICATIONS OF FLOW ARE PRESENT THEN A PUSH TYPE CAMERA WITH VIDEO TAPE INSPECTION CAPABILITY AND SURFACE LOCATE CAPABILITY SHALL BE USED TO CONFIRM IF LATERAL IS ACTIVE OR INACTIVE. EACH LATERAL SHALL BE CONSIDERED ACTIVE UNLESS IT CAN BE POSITIVELY DETERMINED TO BE INACTIVE. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL INACTIVE AND ACTIVE LATERALS PRIOR TO RECONNECTION OR ABANDONMENT PER THE SPECIFICATIONS.
- CONTRACTOR SHALL CONFIRM EACH BUILDING ON EACH STREET HAS AN ACTIVE SANITARY SEWER LATERAL THAT IS CONNECTED TO A SEWER MAIN. IF NO LATERAL CAN BE FOUND, CONTRACTOR SHALL EMPLOY THE USE OF A LOCATOR DOWN AN EXISTING PLUMBING VENT OR BUILDING FIXTURE WITHIN THE BUILDING TO LOCATE AND PROVIDE CONNECTION TO THE SEWER MAIN.
- CONTRACTOR SHALL VERIFY LATERAL SIZES (2", 3", 4" OR 6") PRIOR TO INSTALLATION AND MATCH EXISTING.

## ASBESTOS PIPE REMOVAL NOTES

- REMOVAL OF ASBESTOS CEMENT PIPE (ACP), TRANSITE PIPE (TR) AND OF MATERIALS CONTAINING ASBESTOS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, LOCAL, STATE, AND FEDERAL INCLUDING BUT NOT LIMITED TO HEALTH DEPARTMENT, OSHA, NDEP, AND EPA. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL PERMITS AND PAY ALL ASSOCIATED FEES AND COST RELATED TO THE LEGAL HANDLING, TRANSPORTATION AND DISPOSAL. PROPER SAFETY EQUIPMENT SHALL BE UTILIZED BY WORKERS AND BY TRANSPORT EQUIPMENT AND NO FUGITIVE DUST WILL BE ALLOWED DURING THIS WORK. MATERIAL SHALL BE WRAPPED IN PLASTIC AND LABELED AS REQUIRED. ALL WORK TO BE PERFORMED UNDER THE DIRECTION OF AN APPROVED CERTIFIED PROFESSIONAL. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER FOR CHAIN OF CUSTODY FOR SAID DISPOSAL.

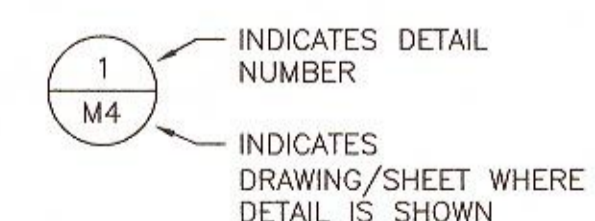
## EXISTING LEGEND:

— EX W —	WATERLINE
— EX SS —	SANITARY SEWER
— EX SD —	STORM DRAIN
— EX E —	ELECTRICAL
— EX OHP —	OVER HEAD POWER
— EX TELE —	TELEPHONE/COMM LINE
— EX G —	GAS MAIN/LATERAL
— ABANDONED —	ABANDONED UTILITY
---	PROPERTY LINE
⊙	EXISTING MANHOLE

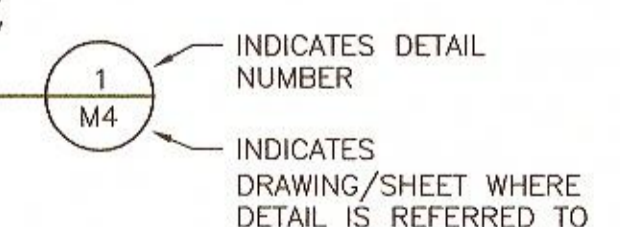
## PROPOSED LEGEND:

108+00	SS	CIPP SANITARY SEWER MAIN / CONSTRUCTION CONTROL LINE
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## DETAIL AND SECTION DESIGNATION



**SUBTITLE  
DETAIL**  
SCALE:



**BID SET**



CITY OF SPARKS  
STANFORD WAY SANITARY SEWER CIPP LINING  
GENERAL NOTES

SHEET NUMBER

G2

2 OF 12

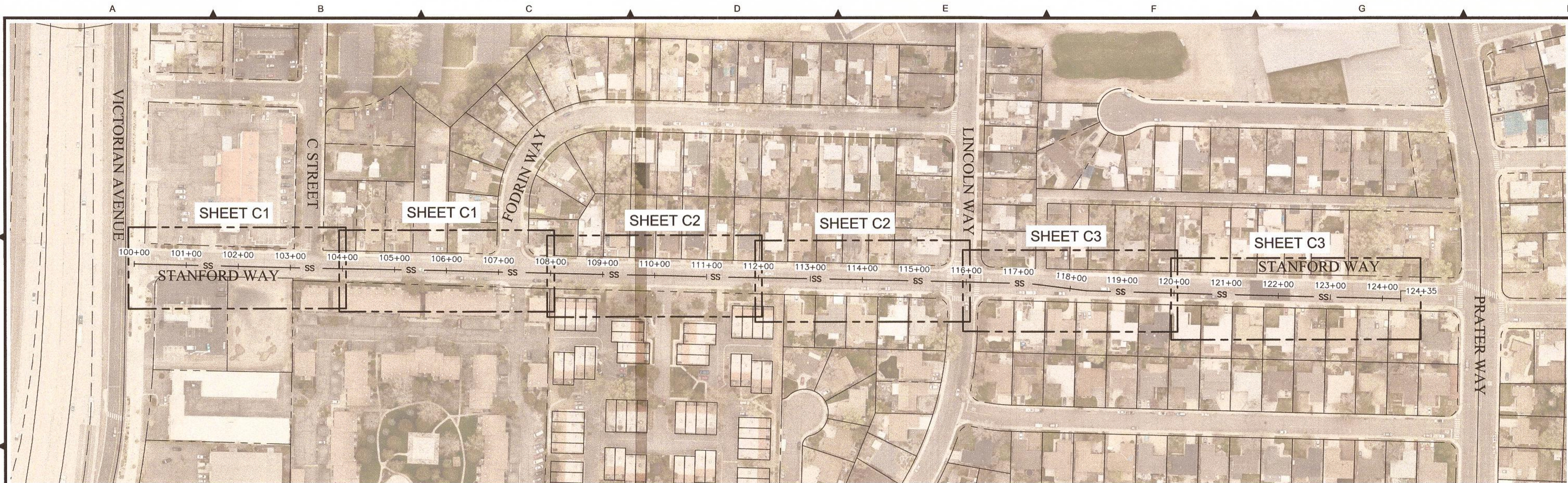
**FARR WEST  
ENGINEERING**  
5510 LONGLEY LANE  
RENO, NEVADA 89511  
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FARRWESTENGINEERING.COM



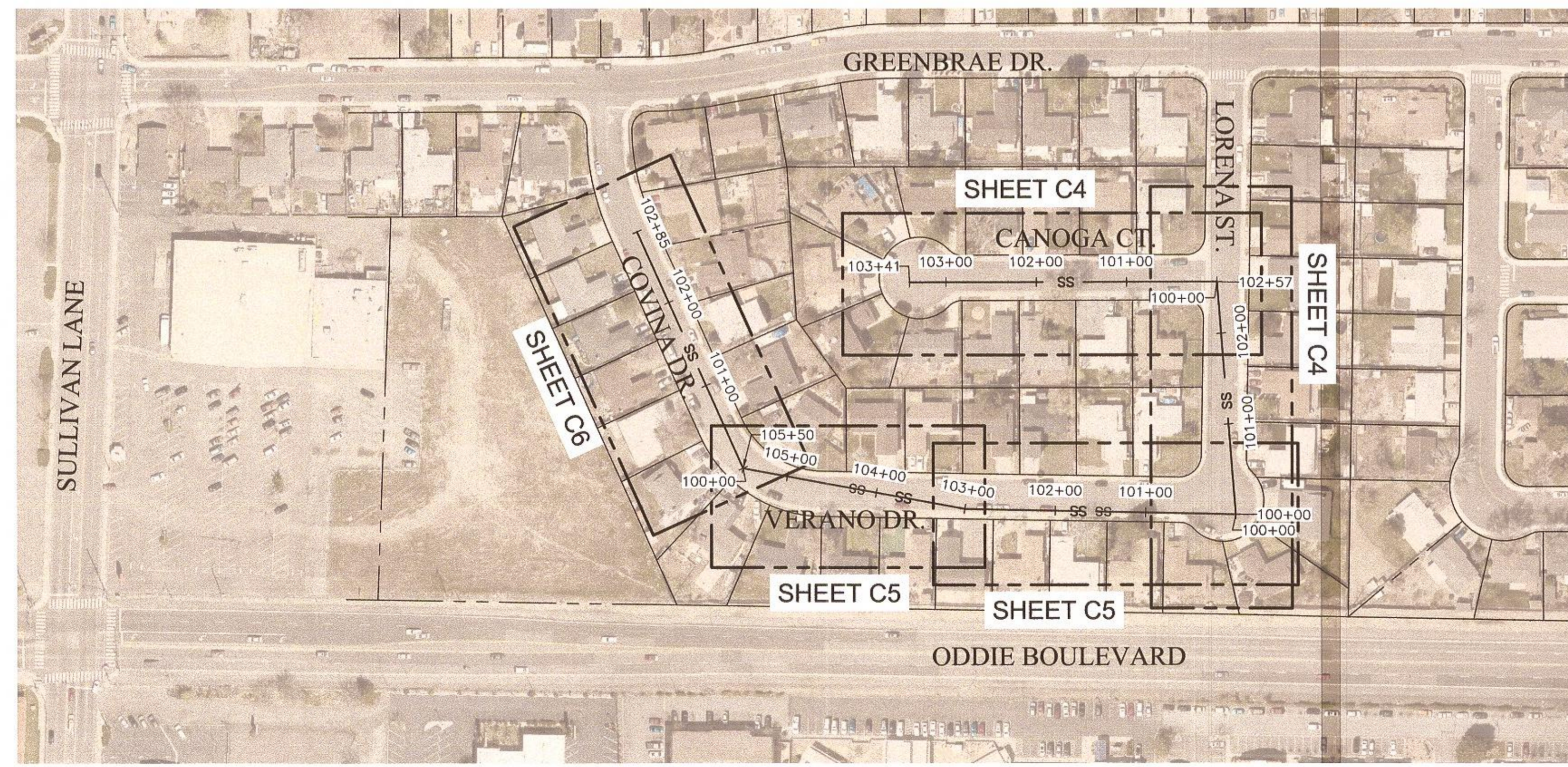
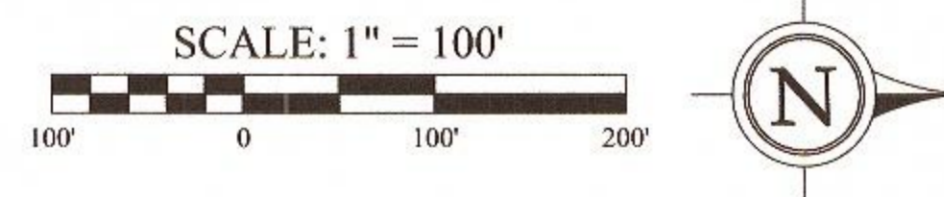
NEVADA

2

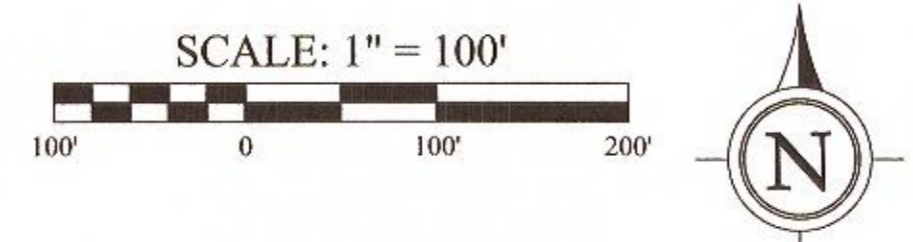
WASHOE COUNTY



STANFORD WAY VICINITY MAP



VERANO DRIVE VICINITY MAP



JOB NO.:	1771
DATE:	JANUARY 2020
SCALE:	SEE SHEET
DESIGNED:	CM
DRAWN:	CM
CHECKED:	KK, GL

ONE INCH AT FULL SCALE:	DESCRIPTION	BY	APP	DATE



NEVADA

WASHOE COUNTY

CITY OF SPARKS

STANFORD WAY SANITARY SEWER CIPP LINING

KEY MAP

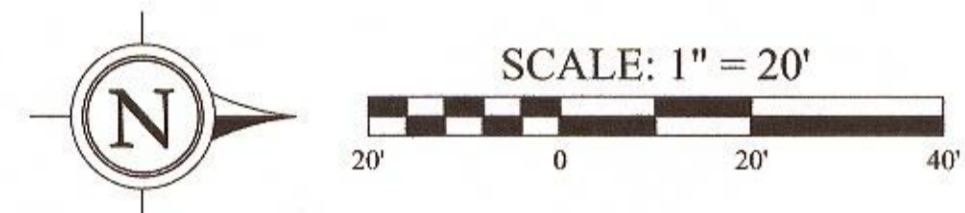
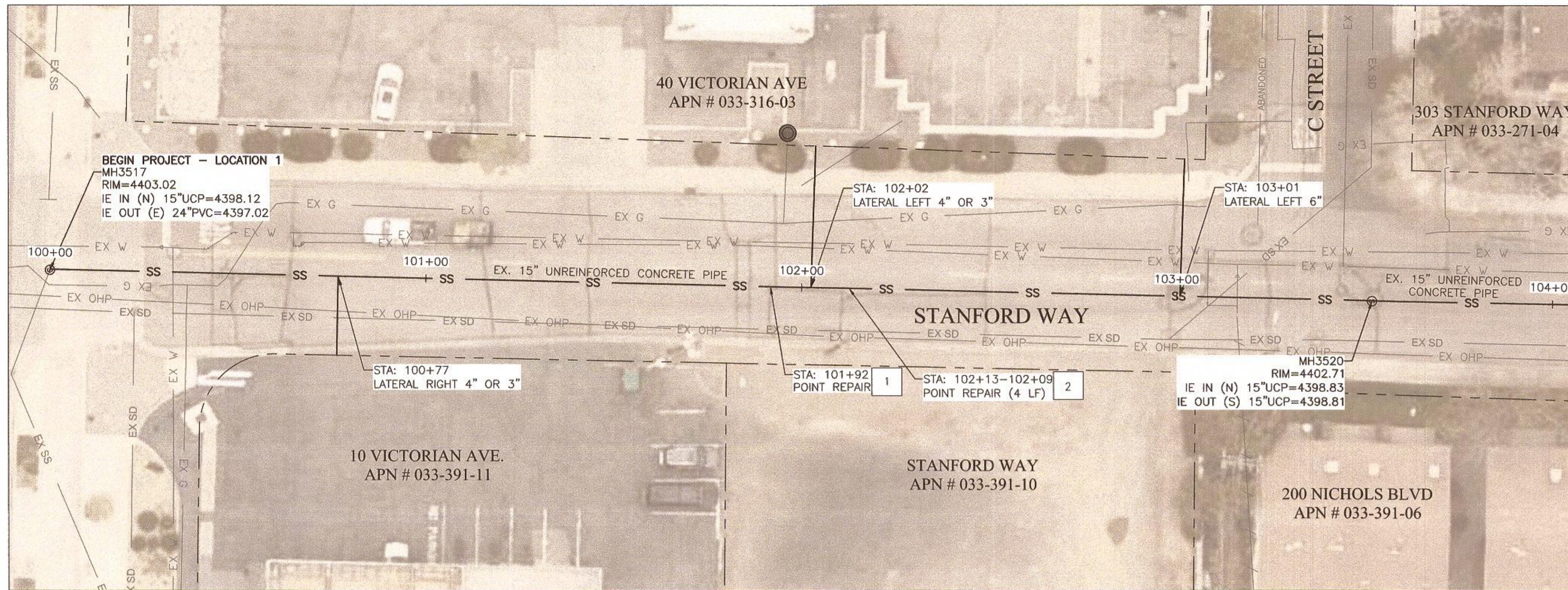
BID SET

SHEET NUMBER

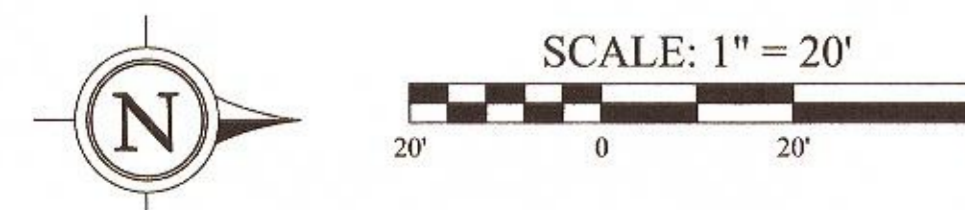
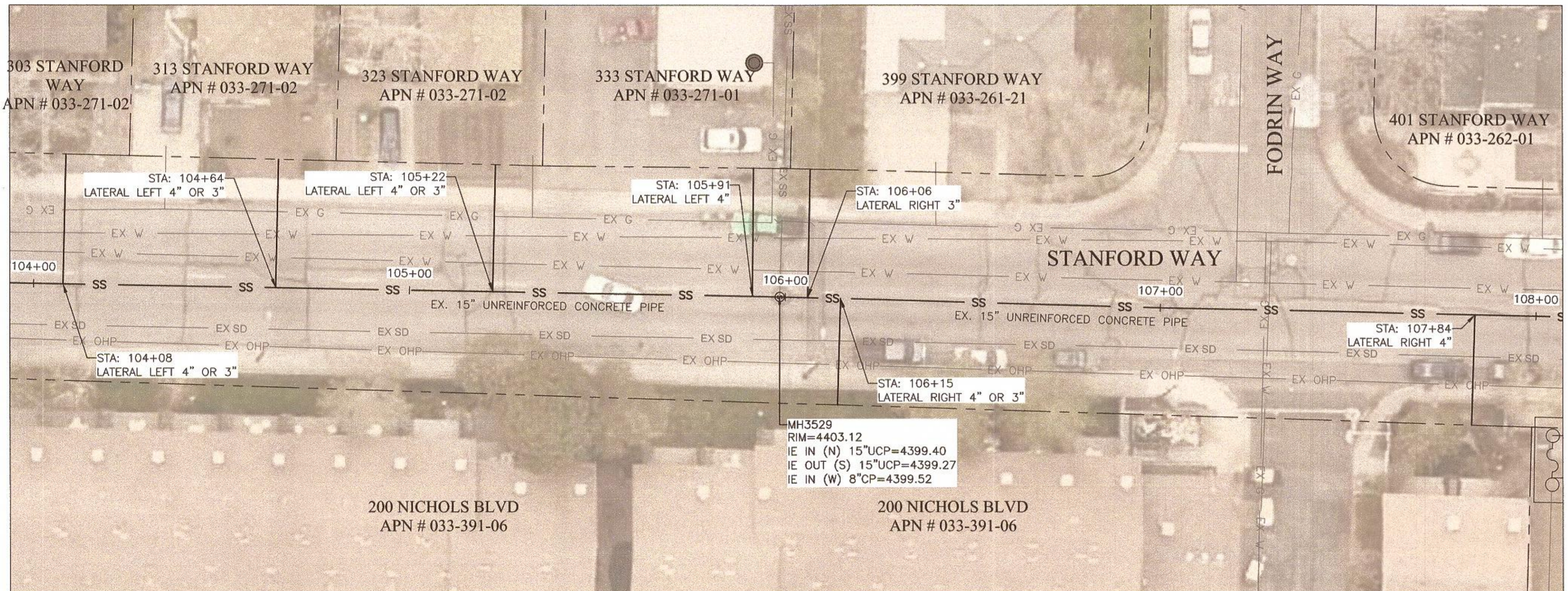
G3

3 OF 12

FILE SPEC: \\we-reno-file\public\client\_projects\Sparks\_City of 09A\1771\_2020 CIPP Sewer Lining\5.0 Drawings\5.0 DMG\G-Sheets.dwg  
 PLOT DATE: Jun 08, 2020 - 12:14pm



STANFORD WAY - STA: 100+00 TO 104+00



STANFORD WAY - STA: 104+00 TO 108+00

**GENERAL NOTES:**

- A. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES SHOWN ON THESE DRAWINGS IS APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEO, MEASURE THE DISTANCE FROM INSIDE MANHOLE, AND VERIFY THE LOCATIONS AND/OR ELEVATIONS PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- B. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER 48 HOURS IN ADVANCE OF ANY SECTION REPLACEMENT.
- C. CLEAN AND REHABILITATE EXISTING SEWER MAIN WITH CIPP PER SPECIFICATION SECTION 306E. CONFIRM I.D. PRIOR TO PROCURING MATERIALS.
- D. CONTRACTOR SHALL VERIFY THE SIZE AND PRECISE LOCATION OF EACH LATERAL PRIOR TO ORDERING OR INSTALLING TOP HATS. CONTRACTOR SHALL VERIFY AND REINSTATE ALL LATERALS WITHIN SEWER MAIN AND INSTALL "TOP HAT" SEAL AT ALL LATERAL TO MAIN CONNECTIONS PER SECTION 306E.
- E. CONTRACTOR TO PROVIDE BYPASS PUMPING TO PROVIDE UNINTERRUPTED FLOW TO THE SYSTEM NOT BEING WORKED ON. SEWER FLOW TO BE RE-ESTABLISHED AT THE END OF EACH DAY.
- F. PRIOR TO PERFORMING POINT REPAIRS, CONTRACTOR SHALL MAKE OWN DETERMINATION AS TO WHETHER EXISTING PIPE CONTAINS ASBESTOS, AND USE APPROPRIATE ABATEMENT AS NECESSARY.
- G. CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND TRIM ALL ROOTS WHICH HAVE THE POTENTIAL TO REFLECT THROUGH THE CIPP, INCLUDING IN THE PORTIONS OF LATERALS WHICH ARE TO BE REHABILITATED.
- H. CONTRACTOR SHALL PROVIDE AND IMPLEMENT A TRAFFIC CONTROL PLAN PER THE SPECIFICATIONS, MUTCD LATEST EDITION, DETAILS ON SHEET D3, AND EXCAVATION AND ENCROACHMENT PERMIT.
- I. GRIND AND OVERLAY WITH PERMANENT PAVEMENT PATCH REQUIRED PER DETAIL B/D1 ON VERANO, COVINA, CANOGA, AND LORENA. REMOVE AND REPLACE STRIPING TO EQUAL OR BETTER CONDITION. THIS NOTE DOES NOT APPLY TO STANFORD WAY.

**SHEET NOTES:**

- 1 EXISTING PIPE WALL PARTLY BROKEN ~2FT. EITHER GRIND UNTIL FLUSH WITH SURROUNDING PIPE WALL PER BID ITEM 10 INTERNAL POINT REPAIR; OR PERFORM EXTERNAL POINT REPAIR PER BID ITEM 9 AND DETAILS B/D1, D/D1, AND E/D2.
- 2 TOP HALF OF EXISTING PIPE WALL MISSING ~4FT. PERFORM EXTERNAL POINT REPAIR PER BID ITEM 9 AND DETAILS B/D1, D/D1, AND E/D2.

DATE	BY	APP	DESCRIPTION

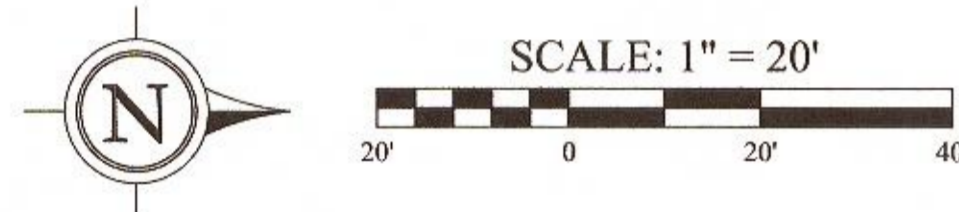
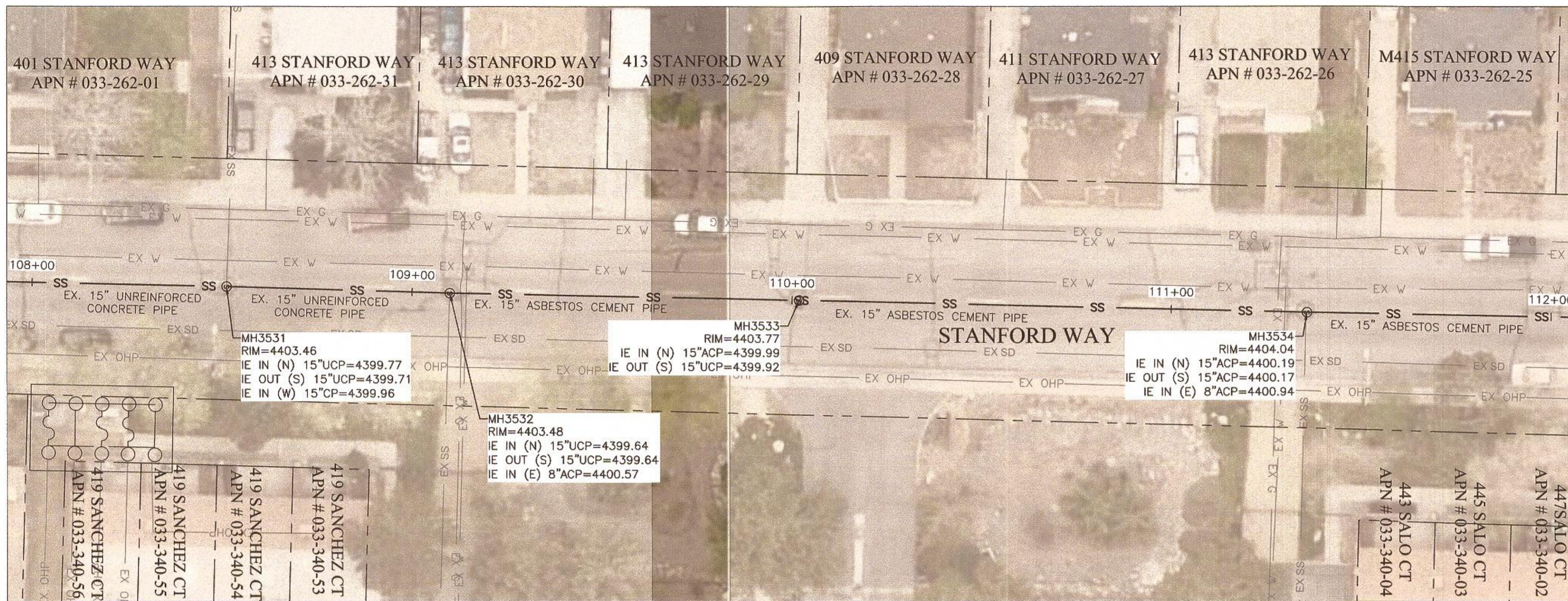
**FARR WEST ENGINEERING**  
 5510 LONGLEY LANE  
 RENO, NEVADA 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0766  
 FARRWESTENGINEERING.COM



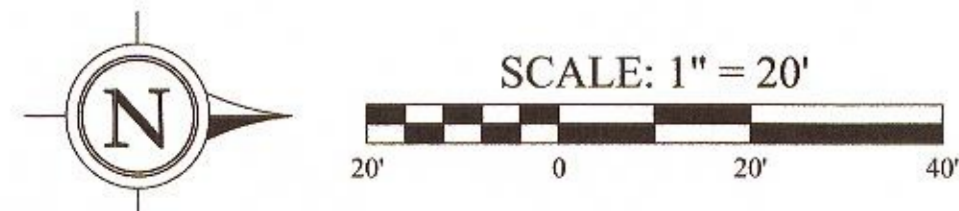
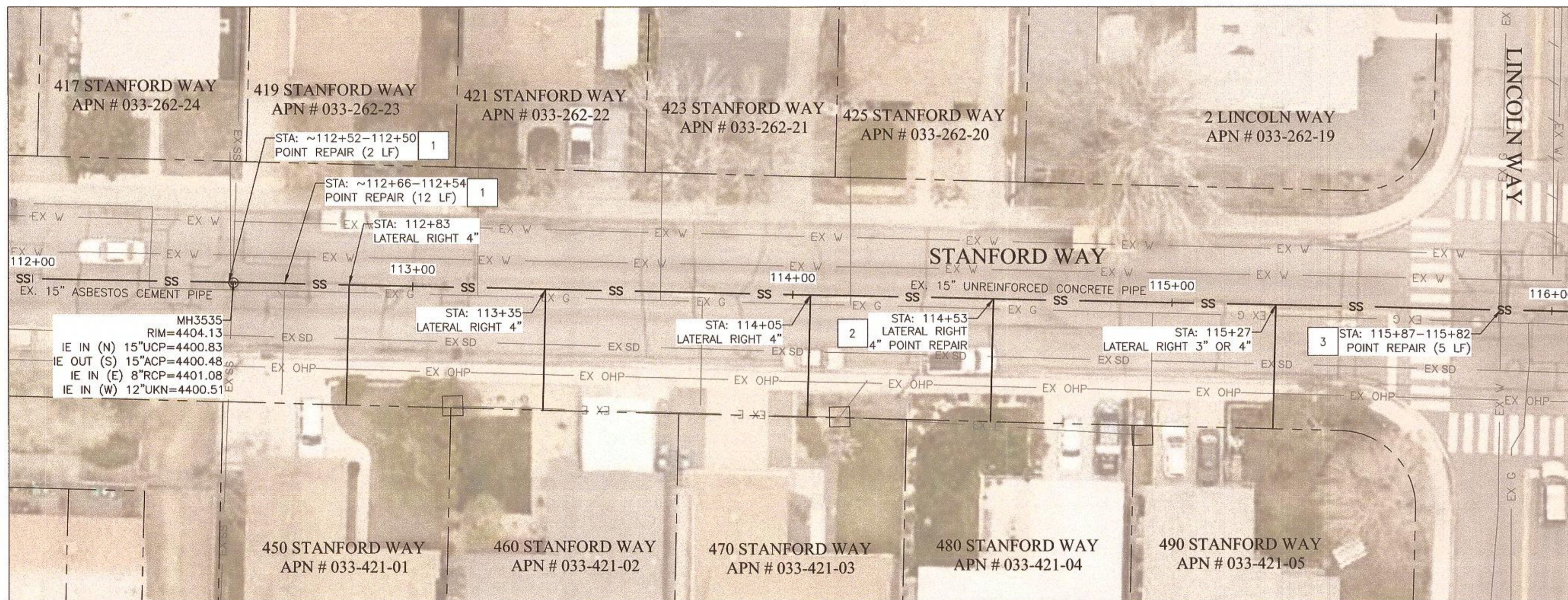
CITY OF SPARKS  
 STANFORD WAY SANITARY SEWER CIPP LINING  
 STANFORD WAY 100+00 TO 108+00  
 WASHOE COUNTY  
 NEVADA

**BID SET**

FILE SPEC: \\fwe-revo-fila\public\client\_projects\Sparks, City of 09\1771\_2020 CIPP Sewer Lining\5.0 Drawings\5.2 DWG\C-Sheets.dwg  
 PLOT DATE: Jan 08, 2020 - 12:14pm



STANFORD WAY - STA: 108+00 TO 112+00



STANFORD WAY - STA: 112+00 TO 116+00

**GENERAL NOTES:**

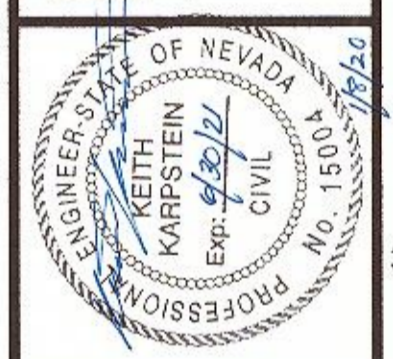
- A. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES SHOWN ON THESE DRAWINGS IS APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEO, MEASURE THE DISTANCE FROM INSIDE MANHOLE, AND VERIFY THE LOCATIONS AND/OR ELEVATIONS PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- B. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER 48 HOURS IN ADVANCE OF ANY SECTION REPLACEMENT.
- C. CLEAN AND REHABILITATE EXISTING SEWER MAIN WITH CIPP PER SPECIFICATION SECTION 306E. CONFIRM I.D. PRIOR TO PROCURING MATERIALS.
- D. CONTRACTOR SHALL VERIFY THE SIZE AND PRECISE LOCATION OF EACH LATERAL PRIOR TO ORDERING OR INSTALLING TOP HATS. CONTRACTOR SHALL VERIFY AND REINSTATE ALL LATERALS WITHIN SEWER MAIN AND INSTALL "TOP HAT" SEAL AT ALL LATERAL TO MAIN CONNECTIONS PER SECTION 306E.
- E. CONTRACTOR TO PROVIDE BYPASS PUMPING TO PROVIDE UNINTERRUPTED FLOW TO THE SYSTEM NOT BEING WORKED ON. SEWER FLOW TO BE RE-ESTABLISHED AT THE END OF EACH DAY.
- F. PRIOR TO PERFORMING POINT REPAIRS, CONTRACTOR SHALL MAKE OWN DETERMINATION AS TO WHETHER EXISTING PIPE CONTAINS ASBESTOS, AND USE APPROPRIATE ABATEMENT AS NECESSARY.
- G. CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND TRIM ALL ROOTS WHICH HAVE THE POTENTIAL TO REFLECT THROUGH THE CIPP, INCLUDING IN THE PORTIONS OF LATERALS WHICH ARE TO BE REHABILITATED.
- H. CONTRACTOR SHALL PROVIDE AND IMPLEMENT A TRAFFIC CONTROL PLAN PER THE SPECIFICATIONS, MUTCD LATEST EDITION, DETAILS ON SHEET D3, AND EXCAVATION AND ENCROACHMENT PERMIT.
- I. GRIND AND OVERLAY WITH PERMANENT PAVEMENT PATCH REQUIRED PER DETAIL B/D1 ON VERANO, COVINA, CANOGA, AND LORENA. REMOVE AND REPLACE STRIPING TO EQUAL OR BETTER CONDITION. THIS NOTE DOES NOT APPLY TO STANFORD WAY.

**SHEET NOTES:**

- 1 REPLACE EXISTING UNDERSIZE PVC PIPE ~4FT, INCLUDING MAKE CONNECTION TO EXISTING MANHOLE. PERFORM EXTERNAL POINT REPAIR PER BID ITEM 9 AND DETAILS B/D1, D/D1, E/D1, A/D2, AND E/D2.
- 2 EXISTING LATERAL PROTRUDES INTO MAIN. GRIND UNTIL FLUSH WITH SURROUNDING PIPE WALL PER BID ITEM 10 INTERNAL POINT REPAIR.
- 3 REPLACE EXISTING UNDERSIZE PVC PIPE ~10FT. PERFORM EXTERNAL POINT REPAIR PER BID ITEM 9 AND DETAILS B/D1, D/D1, AND E/D2.

DATE	BY	APP	REVISION
JANUARY 2020			

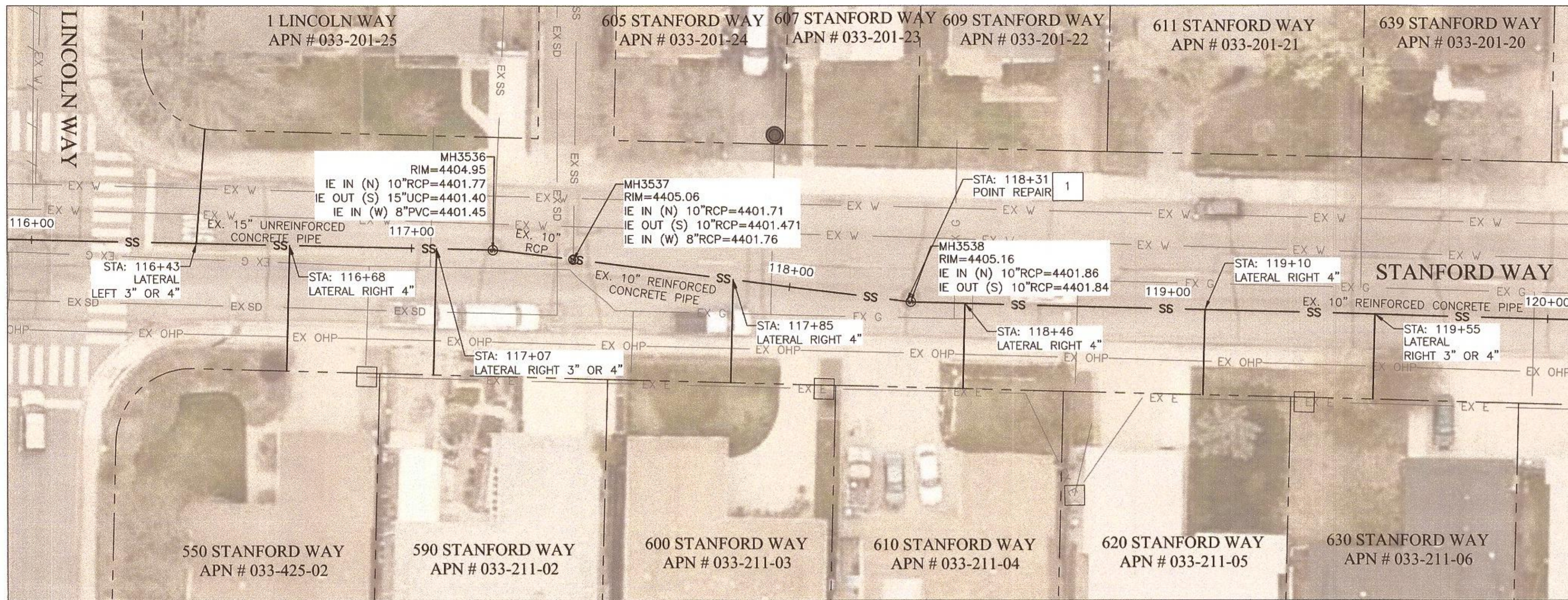
**FARR WEST ENGINEERING**  
 5510 LONGLEY LANE  
 RENO, NEVADA 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0766  
 FARRWESTENGINEERING.COM



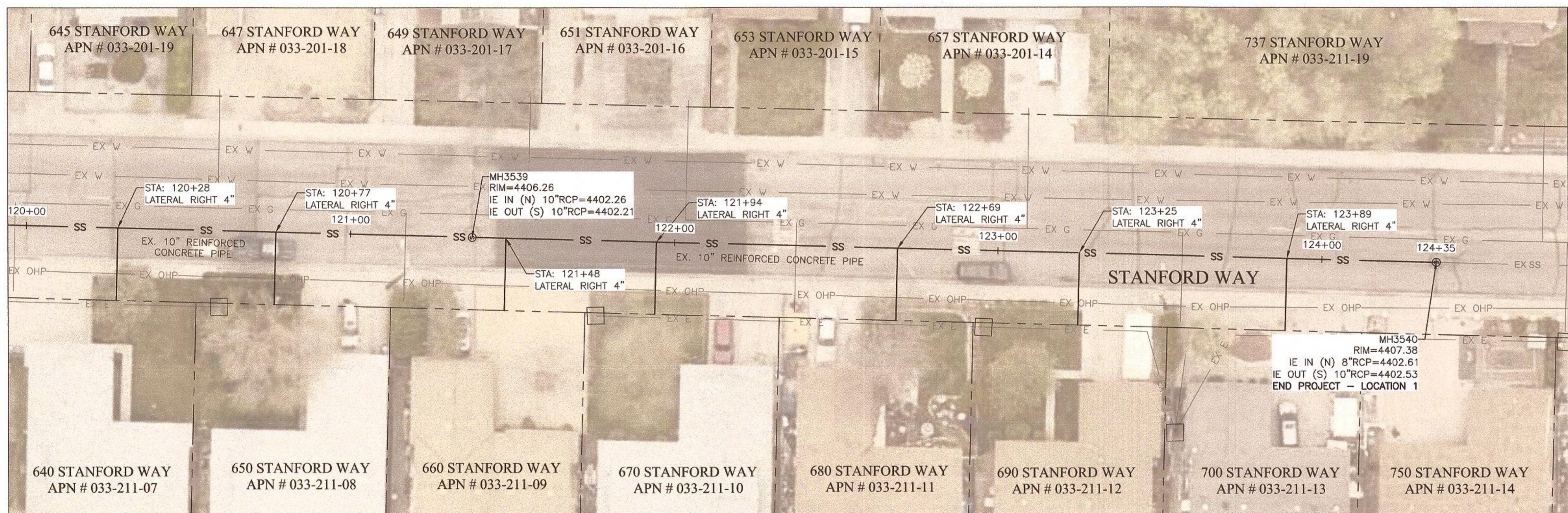
CITY OF SPARKS  
 STANFORD WAY SANITARY SEWER CIPP LINING  
 STANFORD WAY 108+00 TO 116+00  
 WASHOE COUNTY  
 NEVADA

BID SET

FILE SPEC: \\fwe-reno-file\public\client\_projects\Sparks\_City of 09A\1771\_2020 CIPP Sewer Lining\5.0 Drawings\5.2 DWG\C-Sheets.dwg  
 PLOT DATE: Jan 08, 2020 - 12:14pm



STANFORD WAY - STA: 116+00 TO 120+00



STANFORD WAY - STA: 120+00 TO 124+35

**GENERAL NOTES:**

- A. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES SHOWN ON THESE DRAWINGS IS APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEO, MEASURE THE DISTANCE FROM INSIDE MANHOLE, AND VERIFY THE LOCATIONS AND/OR ELEVATIONS PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- B. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER 48 HOURS IN ADVANCE OF ANY SECTION REPLACEMENT.
- C. CLEAN AND REHABILITATE EXISTING SEWER MAIN WITH CIPP PER SPECIFICATION SECTION 306E. CONFIRM I.D. PRIOR TO PROCURING MATERIALS.
- D. CONTRACTOR SHALL VERIFY THE SIZE AND PRECISE LOCATION OF EACH LATERAL PRIOR TO ORDERING OR INSTALLING TOP HATS. CONTRACTOR SHALL VERIFY AND REINSTATE ALL LATERALS WITHIN SEWER MAIN AND INSTALL "TOP HAT" SEAL AT ALL LATERAL TO MAIN CONNECTIONS PER SECTION 306E.
- E. CONTRACTOR TO PROVIDE BYPASS PUMPING TO PROVIDE UNINTERRUPTED FLOW TO THE SYSTEM NOT BEING WORKED ON. SEWER FLOW TO BE RE-ESTABLISHED AT THE END OF EACH DAY.
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- I. GRIND AND OVERLAY WITH PERMANENT PAVEMENT PATCH REQUIRED PER DETAIL B/D1 ON VERANO, COVINA, CANOGA, AND LORENA. REMOVE AND REPLACE STRIPING TO EQUAL OR BETTER CONDITION. THIS NOTE DOES NOT APPLY TO STANFORD WAY.

**SHEET NOTES:**

- 1 REPLACE EXISTING UNDERSIZE PVC PIPE ~4FT, INCLUDING MAKE CONNECTION TO EXISTING MANHOLE. PERFORM EXTERNAL POINT REPAIR PER BID ITEM 9 AND DETAILS B/D1, D/D1, E/D1, A/D2, AND E/D2.

REVISION	DESCRIPTION	BY	APP	DATE

ONE INCH AT FULL SCALE:

JOB NO.:	1771
DATE:	JANUARY 2020
SCALE:	SEE SHEET
DESIGNED:	CM
DRAWN:	CM
CHECKED:	KK, DL

**FARR WEST ENGINEERING**  
 5510 LONGLEY LANE  
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 FARRWESTENGINEERING.COM

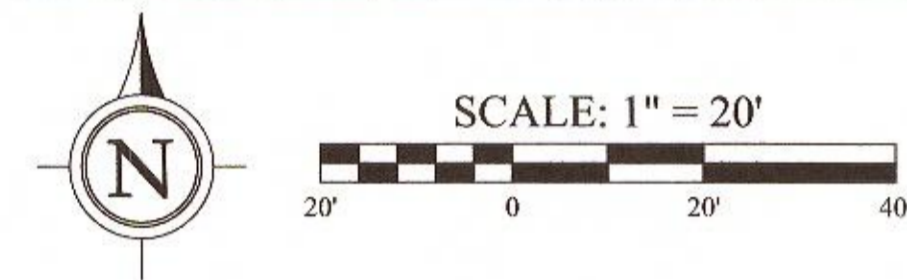
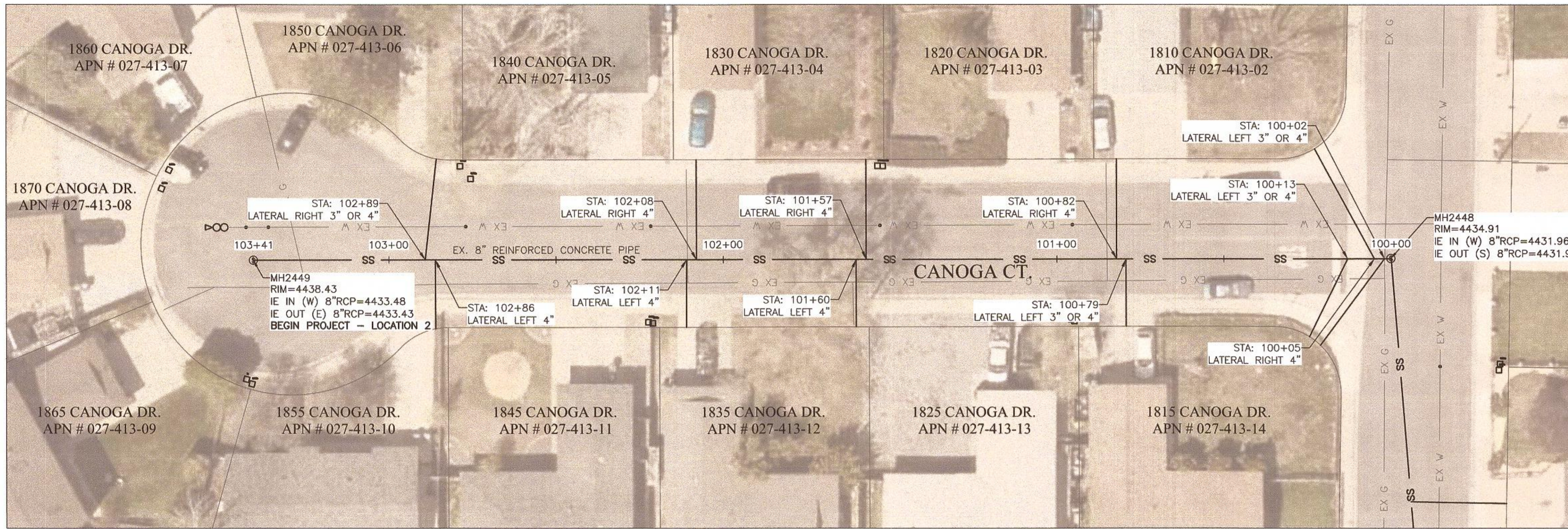


CITY OF SPARKS  
 STANFORD WAY SANITARY SEWER CIPP LINING  
 STANFORD WAY 116+00 TO 124+35  
 NEVADA  
 WASHOE COUNTY

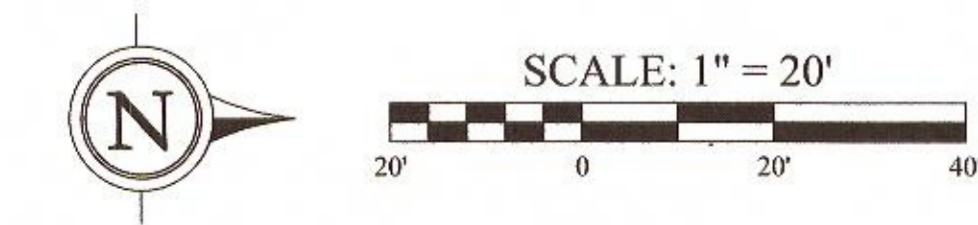
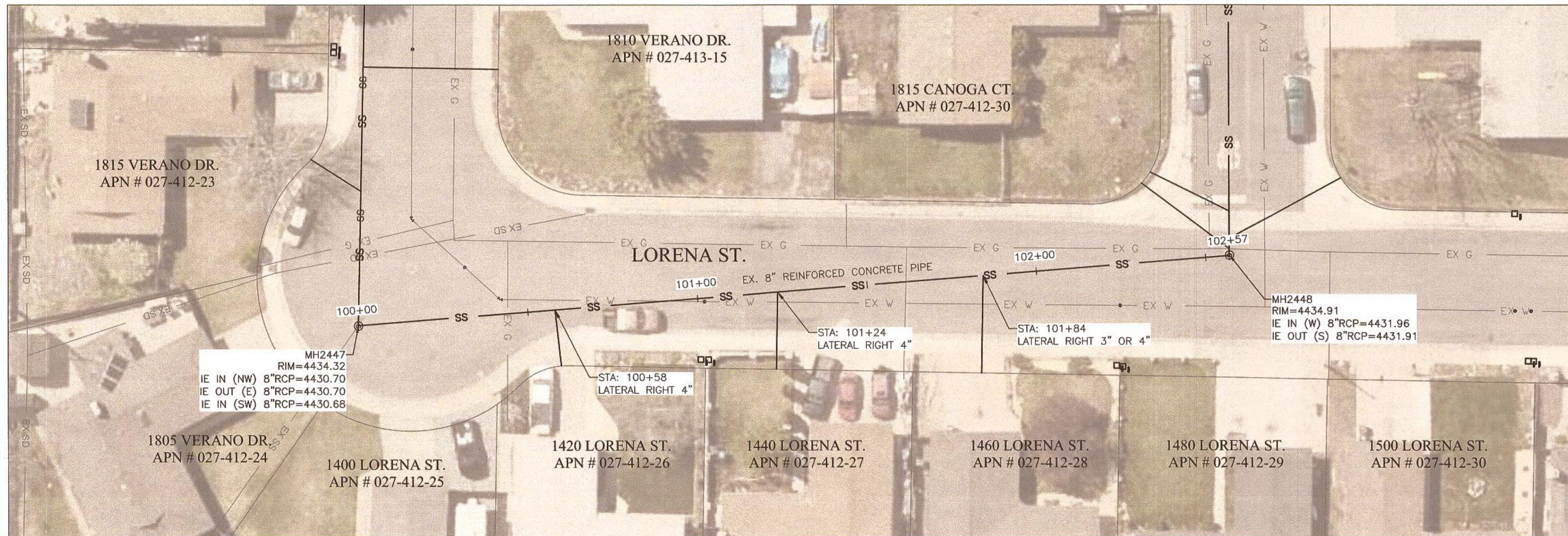
**BID SET**

SHEET NUMBER	C3
6 OF 12	

FILE SPEC: \\fwe-reno-file\public\client\_projects\sparks\_city\_of\_09A\1771\_2020\_CIPP\_Sewer\_Lining\5.0\_Drawings\5.2\_DWG\C-Sheets.dwg  
 PLOT DATE: Jun 08, 2020 - 12:14pm



CANOGA COURT - STA: 100+00 TO 103+41



LORENA STREET - STA: 100+00 TO 102+57

**GENERAL NOTES:**

- A. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES SHOWN ON THESE DRAWINGS IS APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEO, MEASURE THE DISTANCE FROM INSIDE MANHOLE, AND VERIFY THE LOCATIONS AND/OR ELEVATIONS PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
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- C. CLEAN AND REHABILITATE EXISTING SEWER MAIN WITH CIPP PER SPECIFICATION SECTION 306E. CONFIRM I.D. PRIOR TO PROCURING MATERIALS.
- D. CONTRACTOR SHALL VERIFY THE SIZE AND PRECISE LOCATION OF EACH LATERAL PRIOR TO ORDERING OR INSTALLING TOP HATS. CONTRACTOR SHALL VERIFY AND REINSTATE ALL LATERALS WITHIN SEWER MAIN AND INSTALL "TOP HAT" SEAL AT ALL LATERAL TO MAIN CONNECTIONS PER SECTION 306E.
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DATE		BY		APP	
REVISION	DESCRIPTION				
JOB NO.:	DATE:	SCALE:	DESIGNED:	DRAWN:	CHECKED:
1771	JANUARY 2020	SEE SHEET	CM	CM	KIC, GL

**FARR WEST ENGINEERING**  
 5500 LONGLEY LANE  
 RENO, NEVADA 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0766  
 FARRWESTENGINEERING.COM

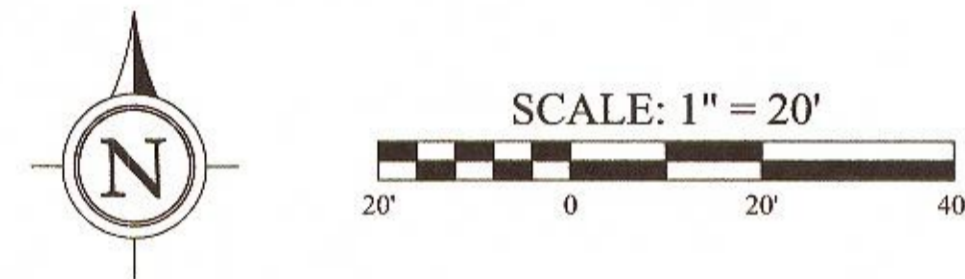
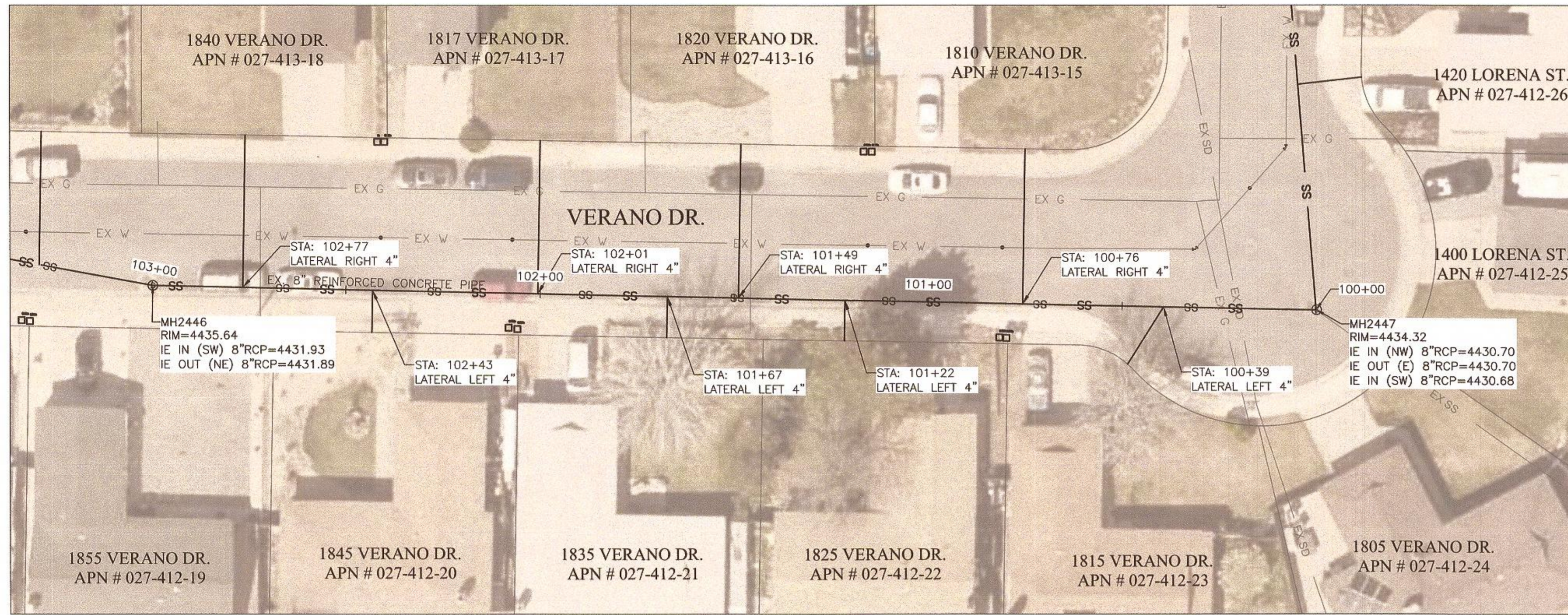
STATE OF NEVADA  
 ENGINEER  
 KEITH KARPSTEIN  
 Exp. 1/1/2020  
 CIVIL  
 No. 15000

CITY OF SPARKS  
 STANFORD WAY SANITARY SEWER CIPP LINING  
 CANOGA COURT AND LORENA STREET  
 WASHOE COUNTY  
 NEVADA

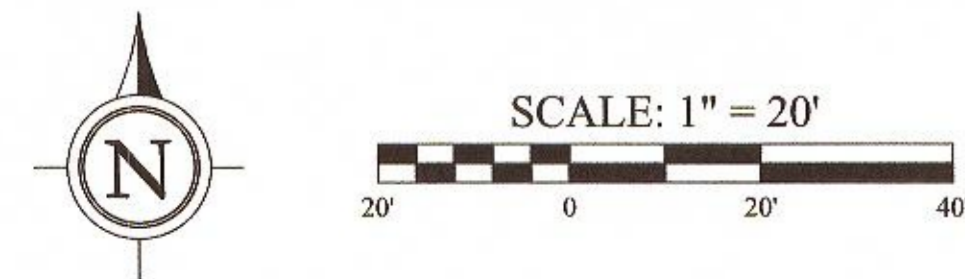
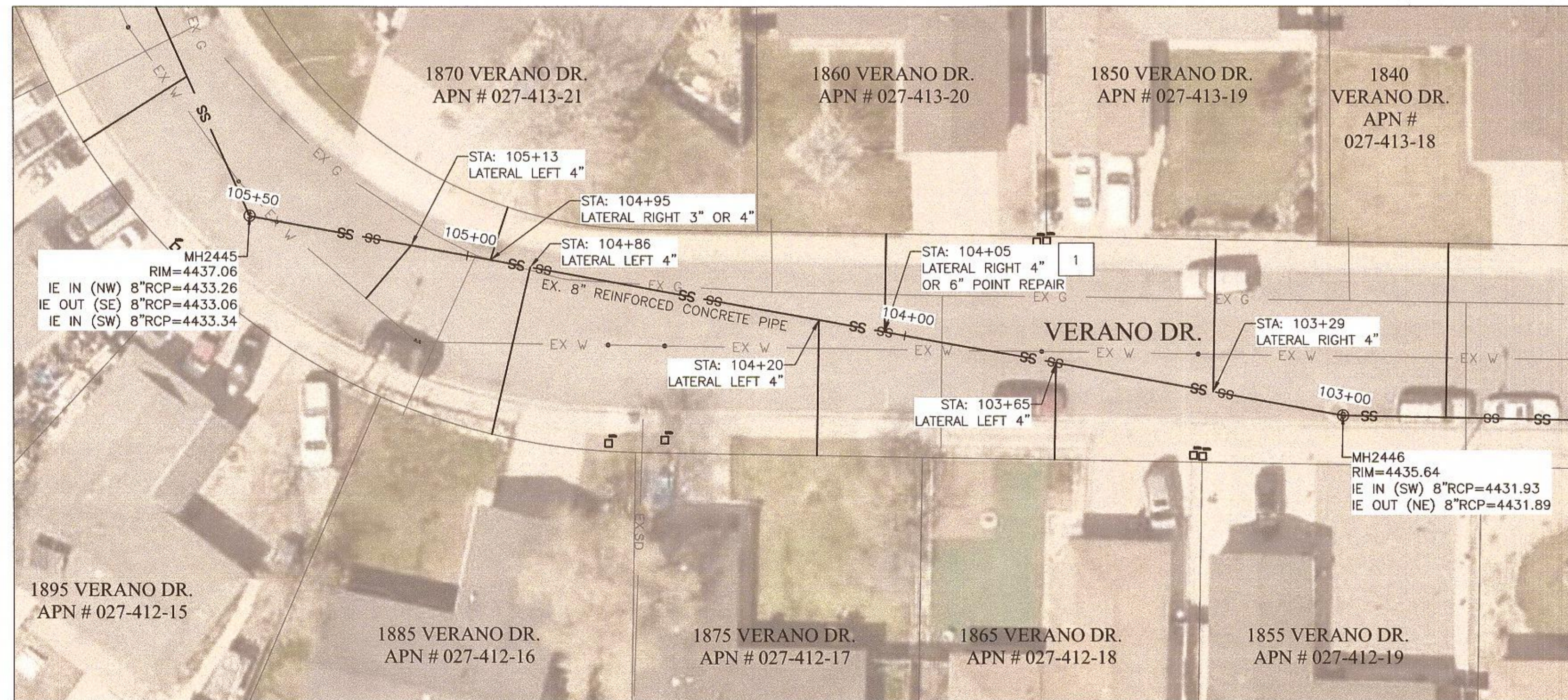
**BID SET**

SHEET NUMBER	
C4	7 OF 12

FILE SPEC: \\fwe-reno-file\public\client\_projects\Sparks\_City of 09A\1771\_2020 CIPP Sewer Lining\5.0 Drawings\5.2 DWG\C-Sheets.dwg  
 PLOT DATE: Jun 06, 2020 - 12:15pm



VERANO DRIVE - STA: 100+00 TO 103+00



VERANO DRIVE - STA: 103+00 TO 105+50

**GENERAL NOTES:**

- A. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES SHOWN ON THESE DRAWINGS IS APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEO, MEASURE THE DISTANCE FROM INSIDE MANHOLE, AND VERIFY THE LOCATIONS AND/OR ELEVATIONS PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
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**CONSTRUCTION NOTES:**

- 1 EXISTING LATERAL PROTRUDES INTO MAIN. GRIND UNTIL FLUSH WITH SURROUNDING PIPE WALL PER BID ITEM 10 INTERNAL POINT REPAIR.

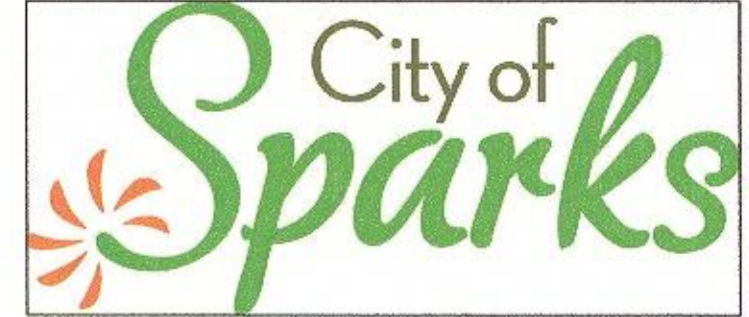
REVISION	DESCRIPTION	BY	APP	DATE

**FARR WEST ENGINEERING**  
 5510 LONGLEY LANE  
 RENO, NEVADA 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0766  
 FARRWESTENGINEERING.COM



CITY OF SPARKS  
 STANFORD WAY SANITARY SEWER CIPP LINING  
 VERANO DRIVE  
 WASHOE COUNTY  
 NEVADA

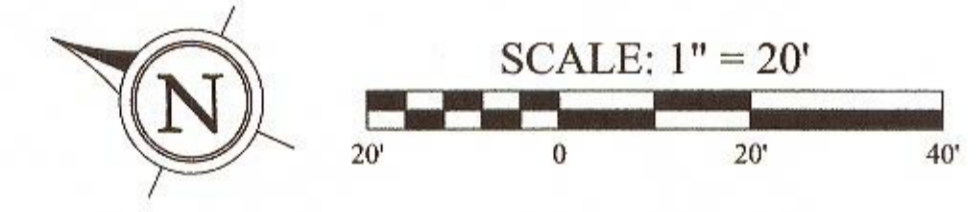
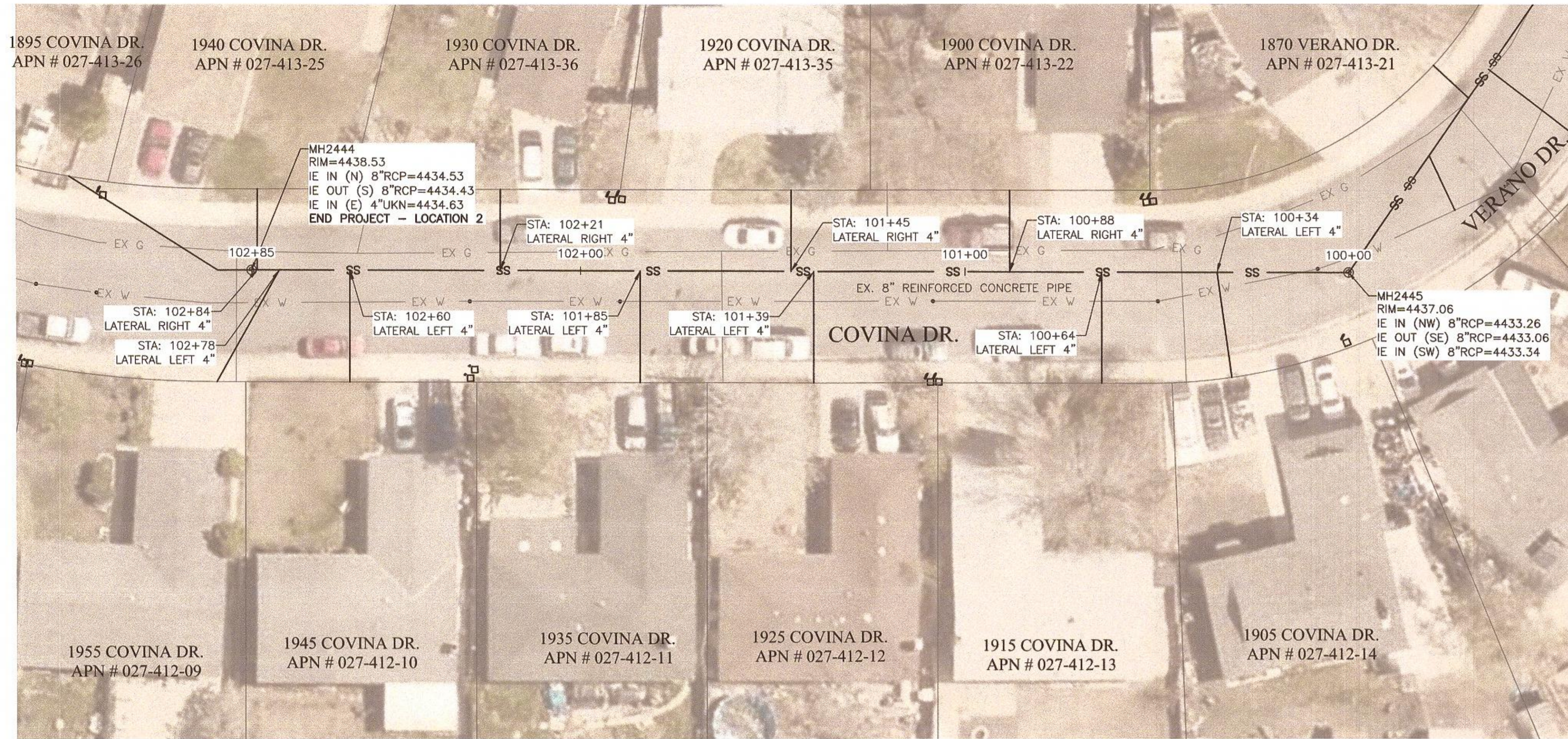
BID SET



SHEET NUMBER  
**C5**  
 8 OF 12

FILE SPEC: \\fwe-reno-fila\public\client\_projects\Sparks\_City of 09A\1771\_2020 CIPP Sewer Lining\5.0 Drawings\5.2 DWG\C-Sheets.dwg  
 PLOT DATE: Jun 08, 2020 - 12:14pm





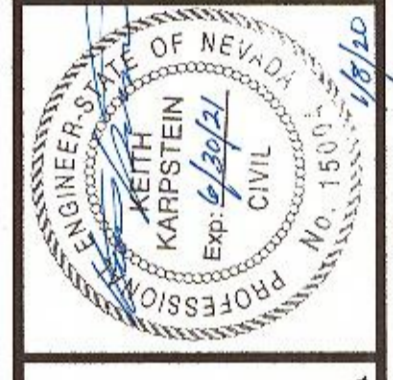
COVINA DRIVE - STA: 100+00 TO 102+85

**GENERAL NOTES:**

- A. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTE THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND FEATURES SHOWN ON THESE DRAWINGS IS APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEO, MEASURE THE DISTANCE FROM INSIDE MANHOLE, AND VERIFY THE LOCATIONS AND/OR ELEVATIONS PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
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- C. CLEAN AND REHABILITATE EXISTING SEWER MAIN WITH CIPP PER SPECIFICATION SECTION 306E. CONFIRM I.D. PRIOR TO PROCURING MATERIALS.
- D. CONTRACTOR SHALL VERIFY THE SIZE AND PRECISE LOCATION OF EACH LATERAL PRIOR TO ORDERING OR INSTALLING TOP HATS. CONTRACTOR SHALL VERIFY AND REINSTATE ALL LATERALS WITHIN SEWER MAIN AND INSTALL "TOP HAT" SEAL AT ALL LATERAL TO MAIN CONNECTIONS PER SECTION 306E.
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REVISION	DESCRIPTION	DATE

JOB NO.:	1771
DATE:	JANUARY 2020
SCALE:	SEE SHEET
DESIGNED:	CM
DRAWN:	CM
CHECKED:	KS, SL



NEVADA

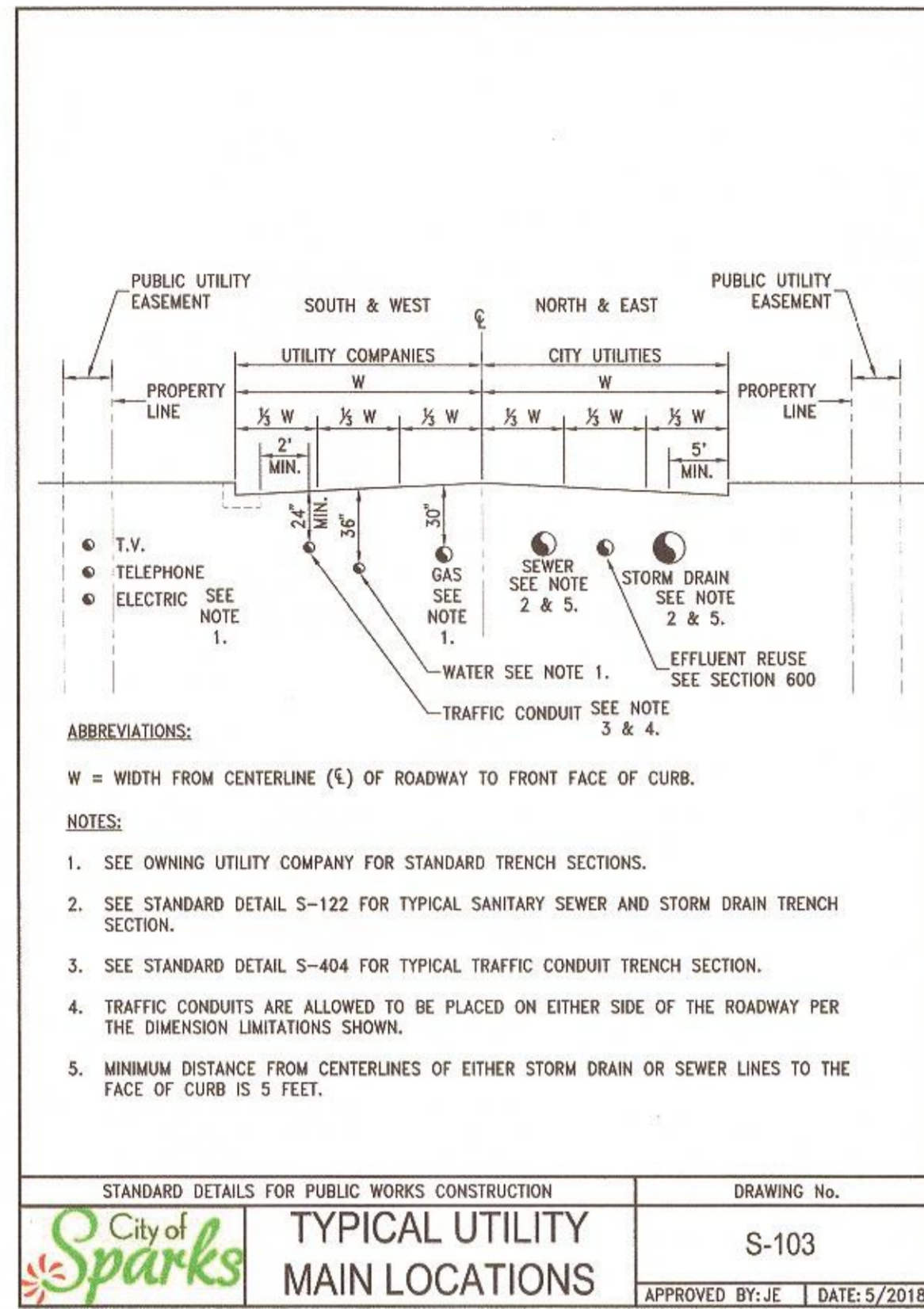
WASHOE COUNTY

CITY OF SPARKS  
STANFORD WAY SANITARY SEWER CIPP LINING  
COVINA DRIVE

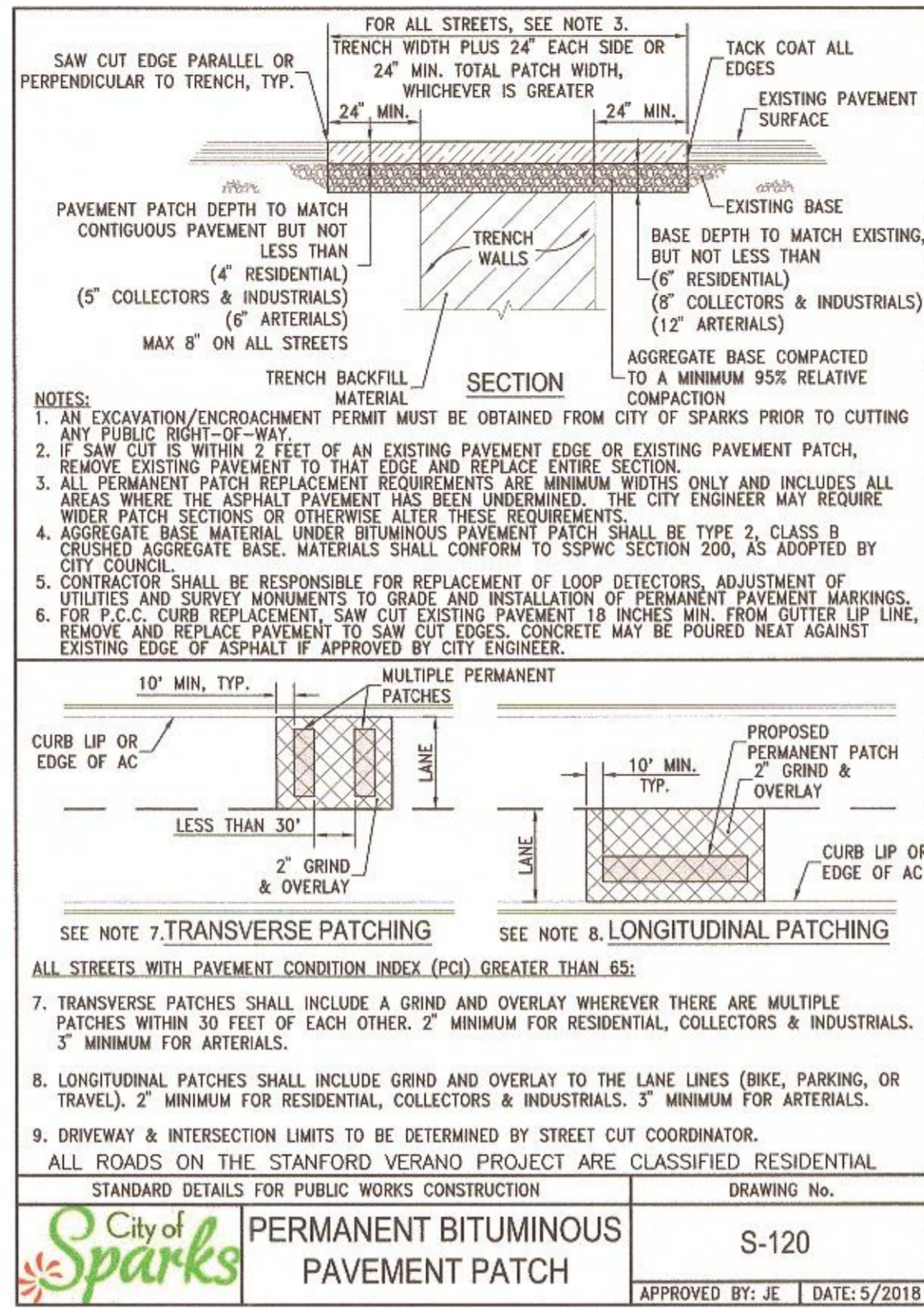
BID SET

SHEET NUMBER  
**C6**  
9 OF 12

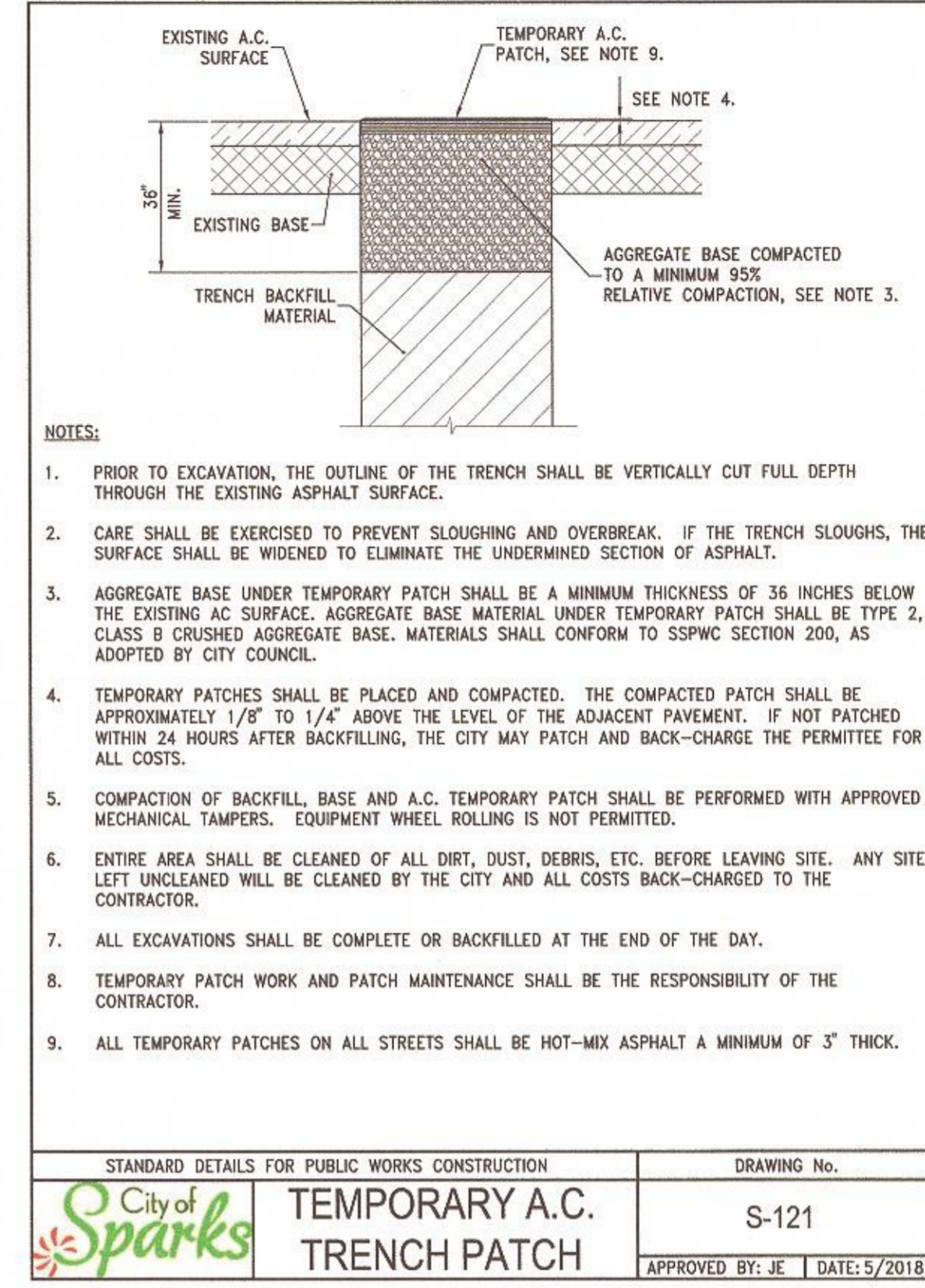
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PLOT DATE: Jan 06, 2020 - 12:15pm



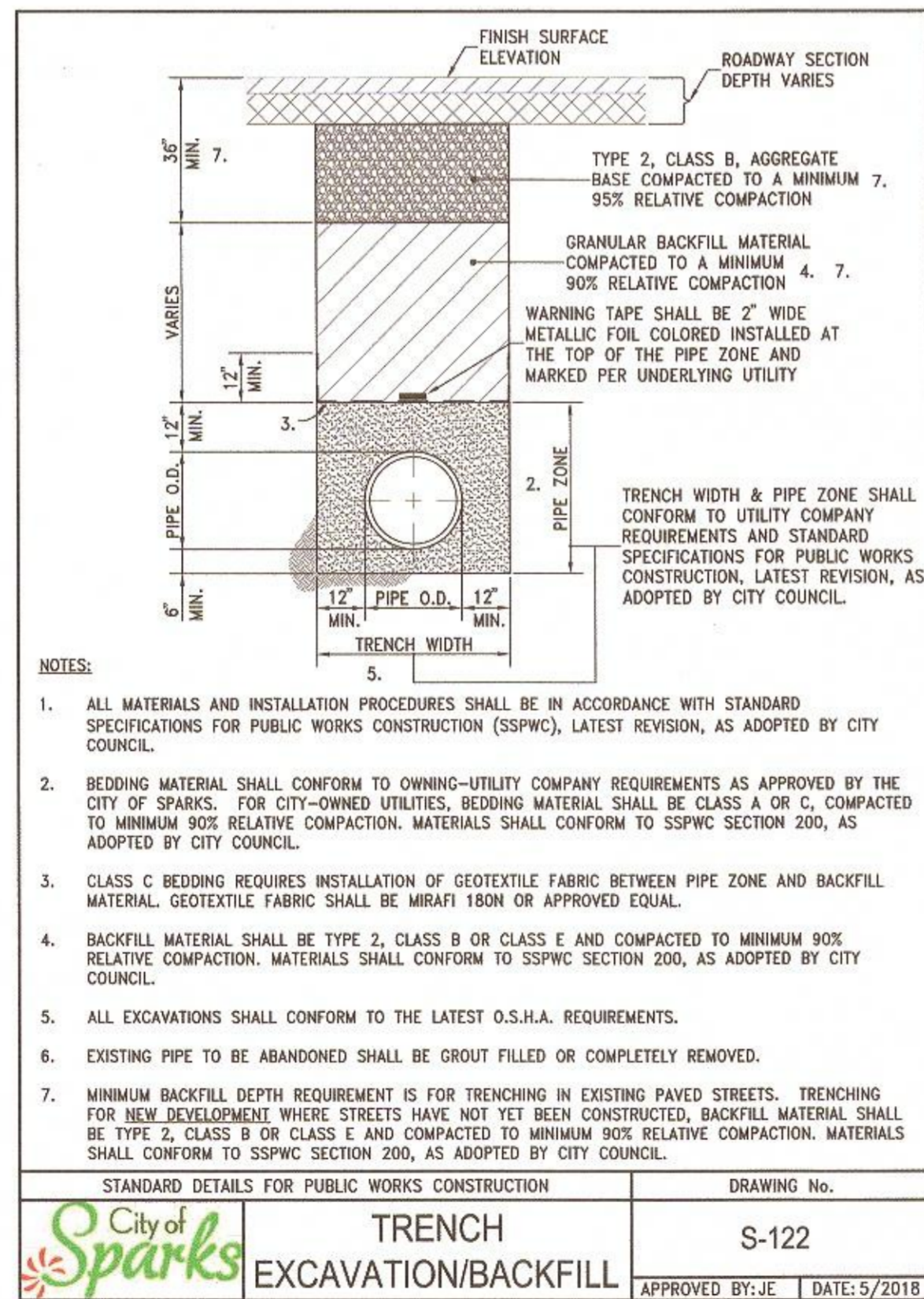
**TYPICAL UTILITY MAIN LOCATIONS**  
SCALE: NTS



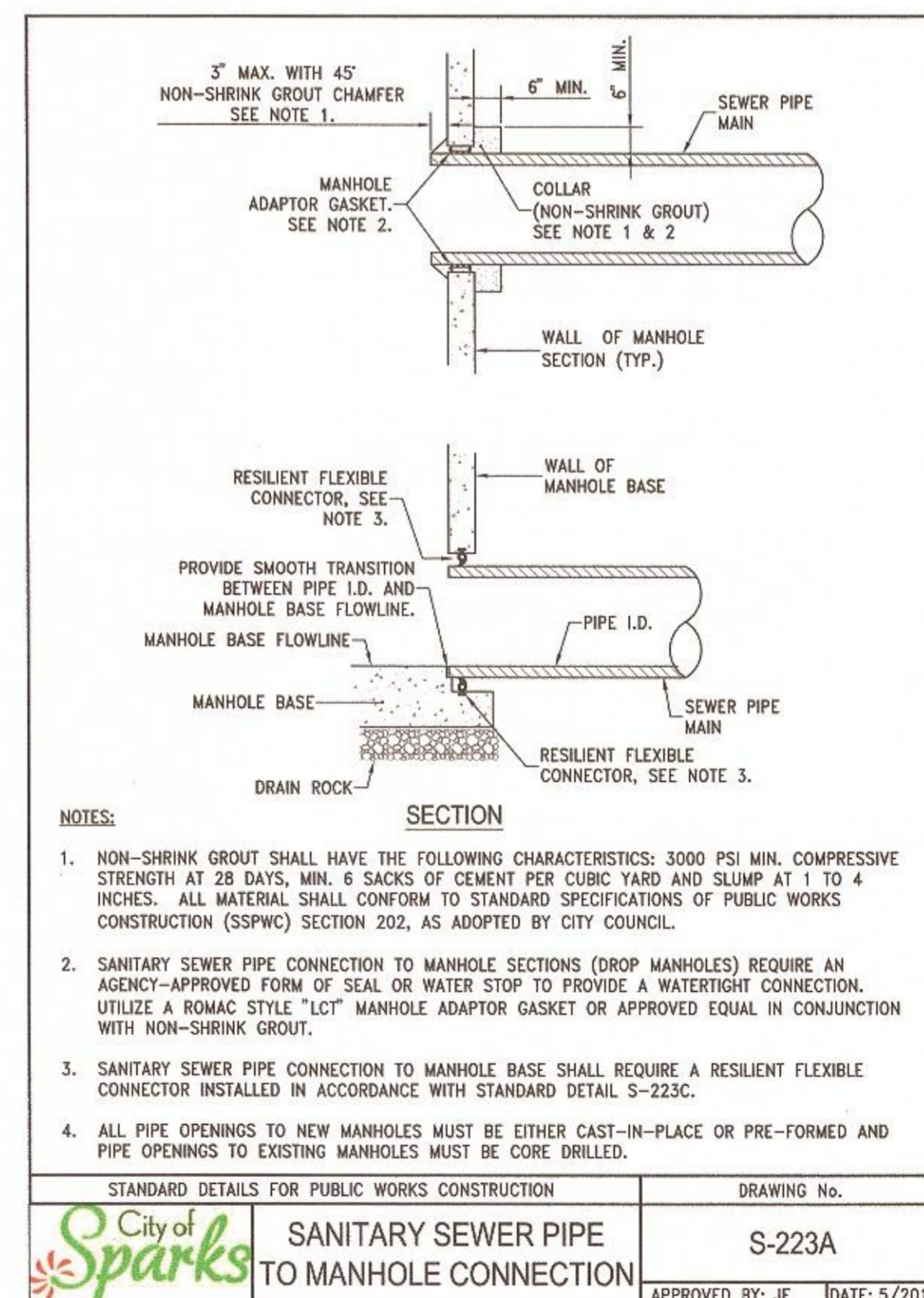
**PERMANENT BITUMOUS PAVEMENT PATCH**  
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**TEMPORARY A.C. TRENCH PATCH**  
SCALE: NTS

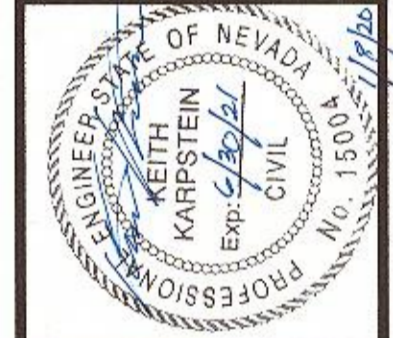


**TRENCH EXCAVATION/BACKFILL**  
SCALE: NTS



**SANITARY SEWER PIPE TO MAHOLE CONNECTION**  
SCALE: NTS

ONE INCH AT FULL SCALE:	DESCRIPTION	REVISION	DATE
BY: APP			
JOB NO.: 1771	DATE: JANUARY 2020	SCALE: SEE SHEET	DESIGNED: CM
			DRAWN: CM
			CHECKED: K.S. SU



CITY OF SPARKS  
**STANFORD WAY SANITARY SEWER CIPP LINING**  
GENERAL DETAILS

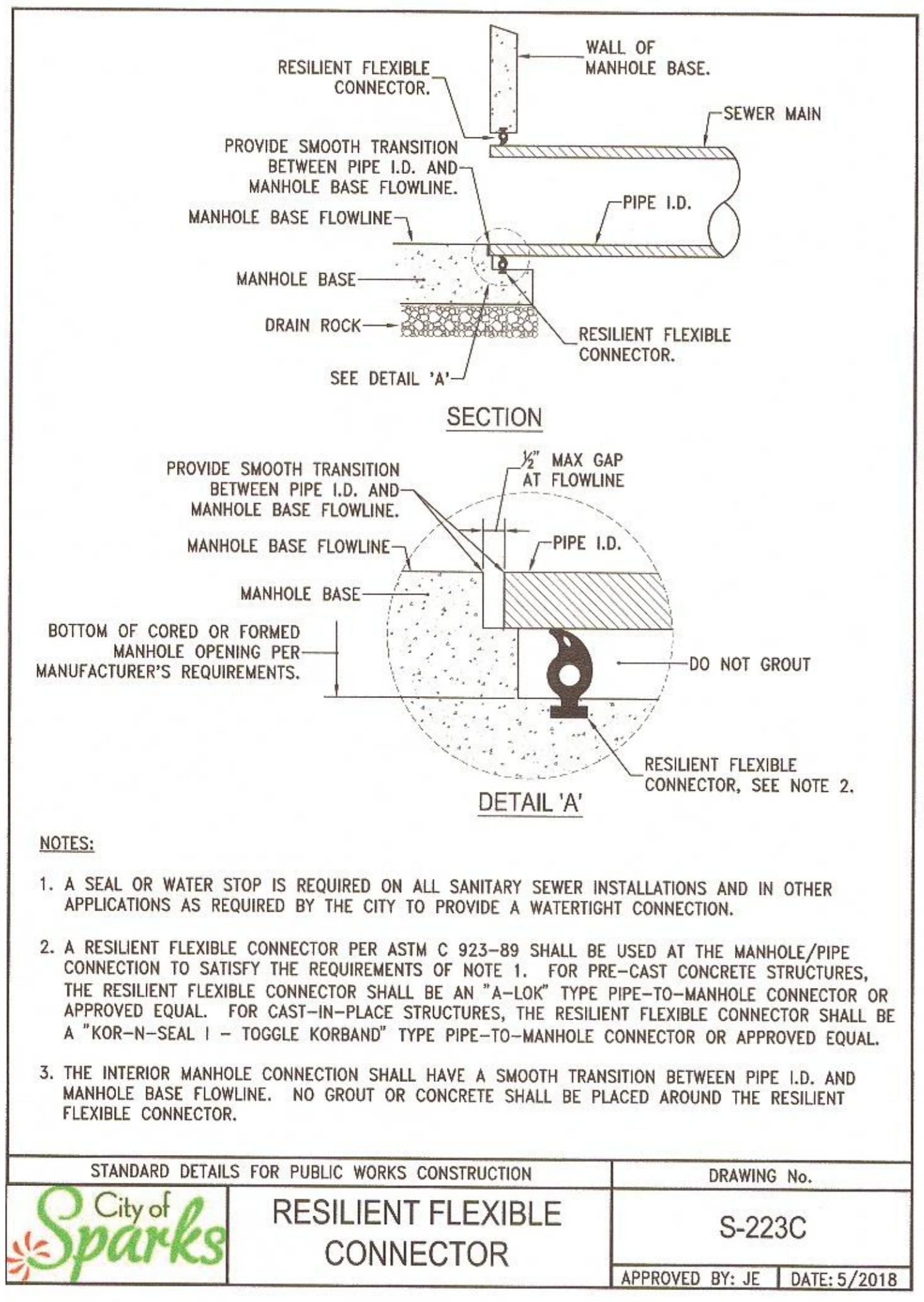
NEVADA  
WASHOE COUNTY

**BID SET**

SHEET NUMBER  
**D1**  
10 OF 12

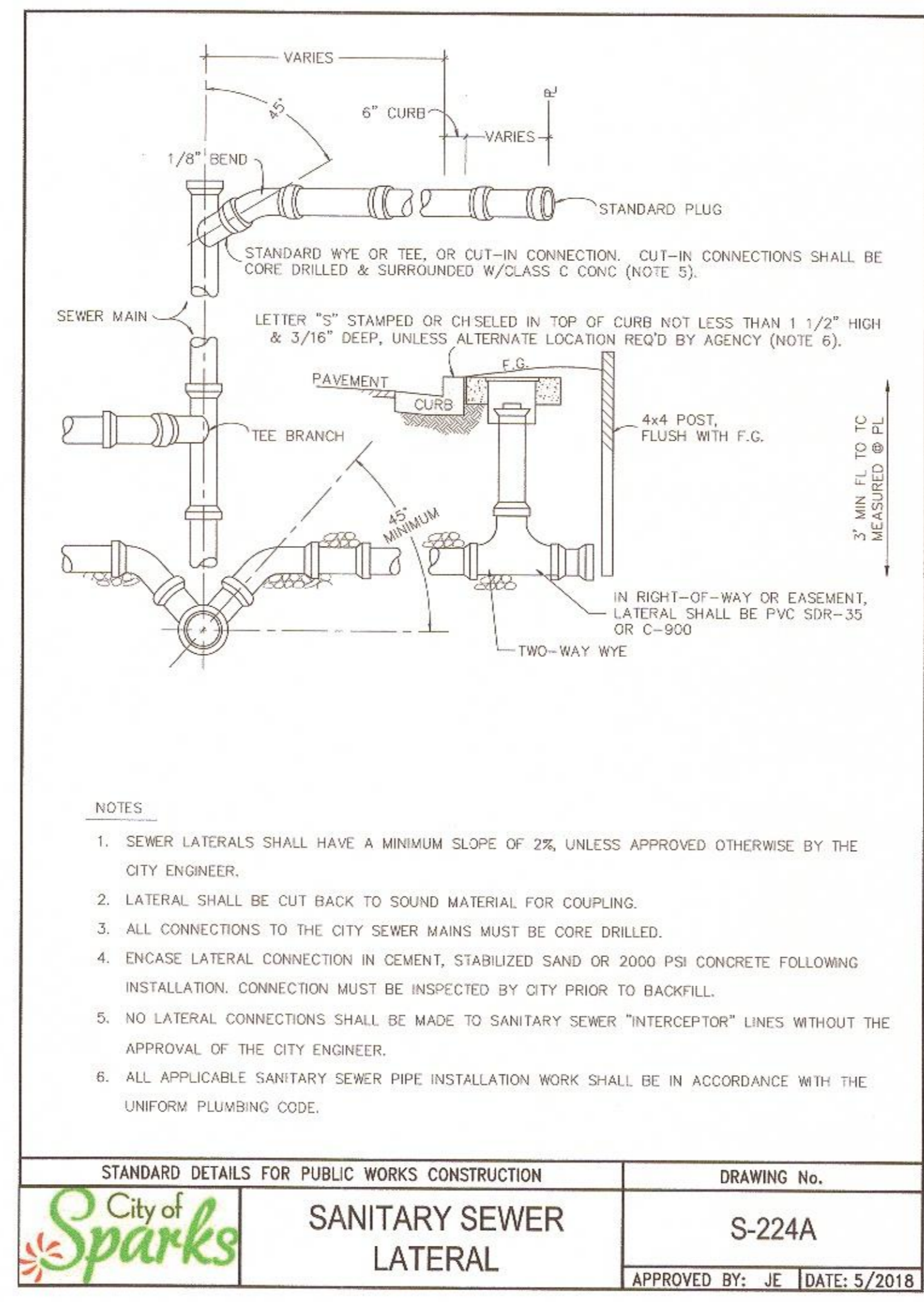
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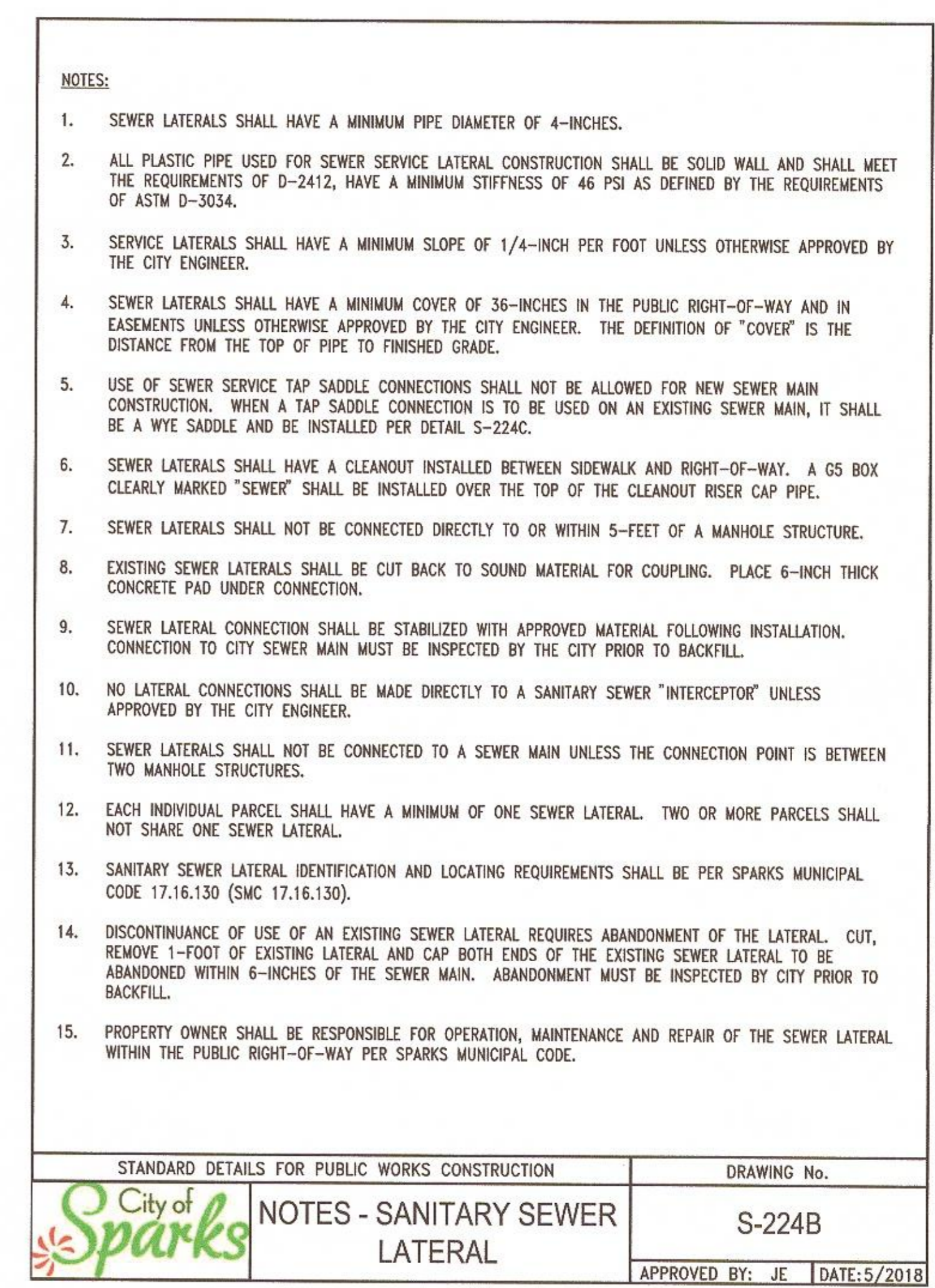
**RESILIENT FLEXIBLE CONNECTOR**  
 SCALE: NTS

A  
D2



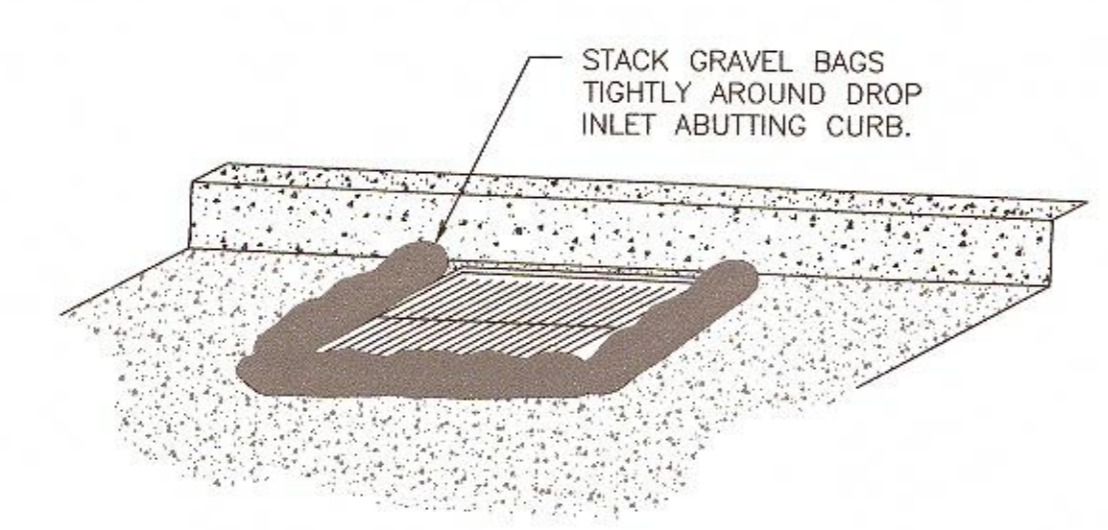
**SANITARY SEWER LATERAL**  
 SCALE: NTS

B  
D2



**NOTES SANITARY SEWER**  
 SCALE: NTS

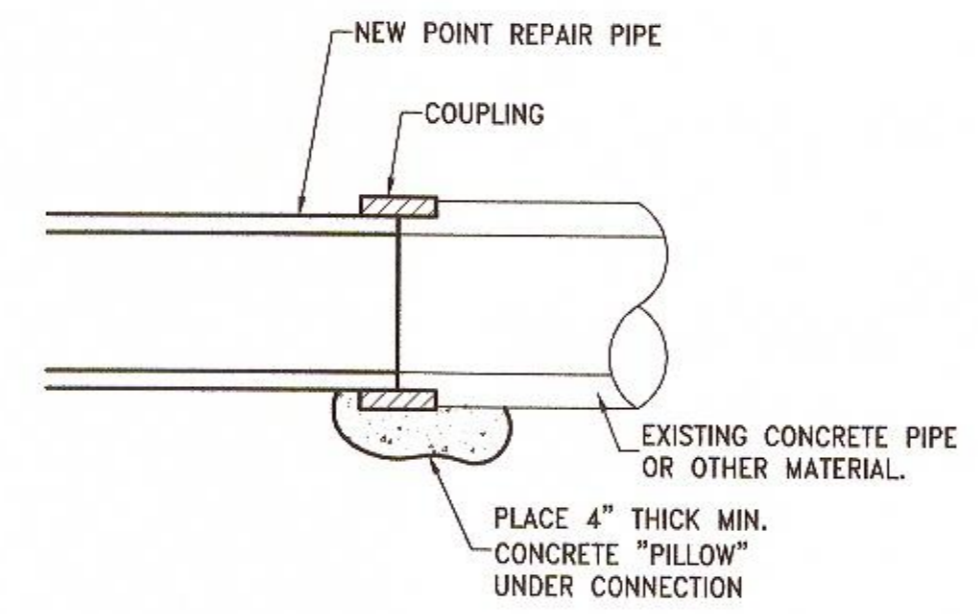
C  
D2



- NOTES**
- AT EACH EXTERNAL POINT REPAIR, PROTECT NEAREST DOWN-SLOPE DROP INLET PER THIS DETAIL.
  - INSTALL FILTER FABRIC BELOW GRATES, EXTEND FILTER FABRIC EIGHTEEN INCHES (18") BEYOND THE EDGE OF THE GRATE ALL DIRECTIONS.

**DROP INLET PROTECTION DETAIL**  
 SCALE: NTS

D  
D2



- NOTES**
- CONSTRUCT POINT REPAIR WITH WHICHEVER PIPE IS EQUAL TO OR SLIGHTLY GREATER THAN THE EXISTING I.D., PVC SDR35 OR SDR26, AND PVC C900 PC165 PC235 OR PC305.
  - CONTRACTOR TO VERIFY OUTSIDE DIAMETER OF EXISTING PIPE AND PROVIDE PROPER FLEXIBLE COUPLINGS TO NEW PIPE.
  - FERNCO FLEXIBLE COUPLING OR OTHER APPROVED COUPLING SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
  - THE ROLE OF THE COUPLINGS IS TO SECURE THE NEW TO THE EXISTING PIPE UNTIL THE CIPP CURE IS COMPLETE.

**EX PIPE TO NEW PIPE CONNECTION**  
 SCALE: NTS

E  
D2

**BID SET**

**City of Sparks**

JOB NO.: 1771	DATE: JANUARY 2020	SCALE: SEE SHEET	DESIGNED: CM	DRAWN: CM	CHECKED: KK, GL
BY:	APP:	DATE:			
DESCRIPTION	REVISION				
ONE INCH AT FULL SCALE:					

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 FARRWESTENGINEERING.COM

PROFESSIONAL ENGINEER STATE OF NEVADA  
 KEITH KARPSTEIN  
 Exp. 9/21  
 CIVIL  
 No. 15004

**CITY OF SPARKS**  
 STANFORD WAY SANITARY SEWER CIPP LINING  
 GENERAL DETAILS

NEVADA  
 WASHOE COUNTY

SHEET NUMBER  
**D2**  
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