CITY OF SPARKS

2023 ALLEY REHABILITATION PROGRAM

ALLEY G

PWP# WA 2023-156

BID# 22/23 - 024

JANUARY 2023

City of Sparks
It's Happening Here!

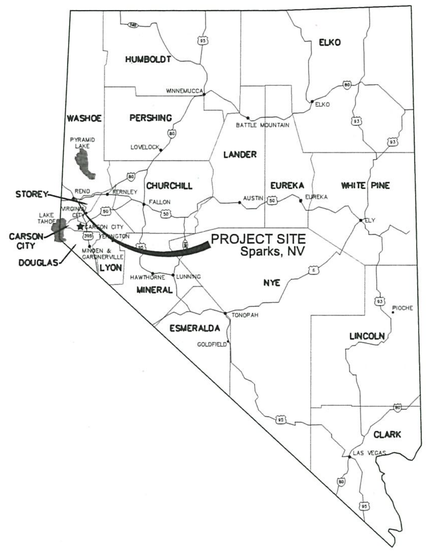
SPARKS CITY COUNCIL

MAYOR	ED LAWSON
WARD 1	DONALD ABBOTT
WARD 2	DIAN VANDERWELL
WARD 3	PAUL ANDERSON
WARD 4	CHARLENE BYBEE
WARD 5	KRISTOPHER DAHIR

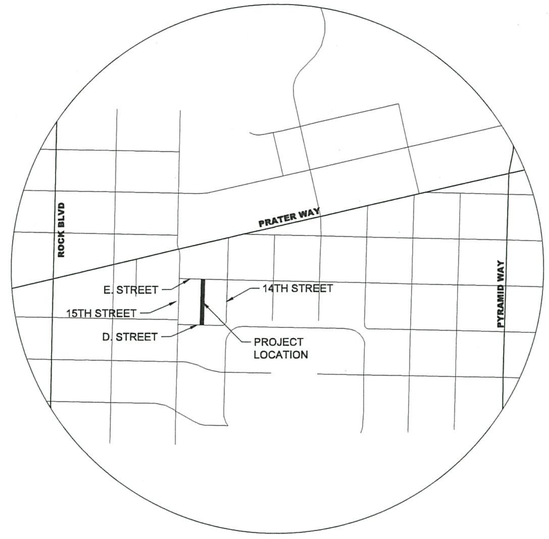
APPROVED BY:

01/12/2023

JON R. ERICSON, P.E., P.T.O.E. DATE



LOCATION MAP



VICINITY MAP

SHEET INDEX

ENGINEER

LUMOS & ASSOCIATES

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RENO, NEVADA 89521
TEL: 775.827.6111
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PROFESSIONAL ENGINEER — ALEX J. GREENBLAT — Exp: 06-30-23 — CIVIL — No. 24022 — STATE OF NEVADA
1/13/2023

CITY OF SPARKS
2023 ALLEY REHABILITATION PROGRAM
ALLEY G
TITLE SHEET
WASHOE COUNTY
NEVADA
SPARKS

REV	DATE	DESCRIPTION	BY

ISSUED FOR BIDDING
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DRAWN BY:	MEP / TDA
DESIGNED BY:	TDA
CHECKED BY:	AJG
JOB NO.:	10687.001

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LEGEND

EXISTING		PROPOSED
4174	CONTOUR LINE	4174
+ 4163.1	GROUND ELEVATION	+ 4163.1
	TREE	
	ROCK	
	EDGE OF PAVEMENT	
	AC PAVING TO BE REMOVED	
	CURB & GUTTER	
	CONCRETE	
	UTILITY POLE	
	LIGHT	
	GUY WIRE	
ET	ELECTRIC TRANSFORMER	ET
EV	ELECTRIC VAULT	EV
EP	ELECTRIC PANEL	EP
EC	ELECTRIC CABINET	EC
EB	ELECTRIC BOX	EB
EM	ELECTRIC METER	EM
EG	ELECTRIC GENERATOR	EG
E	ELECTRIC MANHOLE	E
AC	AIR CONDITIONER	AC
	ELECTRIC OUTLET	
	BOLLARD	
D	STORM DRAIN MANHOLE / DROP INLET	D D
	CATCH BASIN	
WV	WATER VALVE	WV
ICV	IRRIGATION CONTROL VALVE WATER	ICV
WM	METER	WM
WS	WATER SPIGOT / HOSE BIB WATER	WS
W	MANHOLE	W
WV	WATER VAULT	WV
	FIRE HYDRANT	
GV	GAS VALVE	GV
GM	GAS METER	GM
T	TELEPHONE MANHOLE	T
TB	TELEPHONE BOX	TB
TV	TELEPHONE VAULT	TV
S	SEWER MANHOLE	S
SSCO	SEWER CLEANOUT	SSCO
	SURVEY MONUMENT	
	CONTROL POINT	
	BARRICADE	
	SIGN	
	RETAINING WALL	
	FENCE	X
	GRADE BREAK	
	FLOW LINE	
	SOIL TEST PIT	
	DETAIL CALLOUT	X CX.X
EX-TEL	COMM LINE	TELE
EX-GAS	GAS LINE	GAS
EX-ON-ELEC / EX-ELEC	ELECTRIC LINE	ELEC
EX-SS	SEWER LINE	SS
EX-WL	WATER LINE	WL
AIR	AIR LINE	AIR
EX-SD	STORM DRAIN	SD
REC WL	RECLAIMED WATER LINE	REC WL

FOUND SECTION CORNER AS NOTED

FOUND 5/8" REBAR AND CAP "PLS 14413" - UNLESS OTHERWISE NOTED SET 5/8" REBAR AND CAP "PLS 17616" - UNLESS OTHERWISE NOTED

ABBREVIATIONS

AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AGG	AGGREGATE
BC	BEGIN CURVE (HORIZONTAL)
BOW	BOTTOM OF WALL
BF, BOF	BOTTOM OF FOOTING
BV	BUTTERFLY VALVE
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK
CB	CATCH BASIN
cfs	CUBIC FEET PER SECOND
CF	CUBIC FEET
C&G	CURB AND GUTTER
℄	CENTER LINE
CL	CLASS / CENTER LINE
CMP	CORRUGATED METAL PIPE
COMP	COMPACTION
CONC	CONCRETE
CONTR	CONTRACTOR
CP	CONCRETE PAD
CTV	CABLE TELEVISION
DI	DROP INLET
DIA	DIAMETER
DWY	DRIVEWAY
E	EAST
EA	EACH
EC	END CURVE (HORIZONTAL)
ELL	ELBOW
ELEC	ELECTRICAL
ELEV	ELEVATION
EVC	END VERTICAL CURVE
EX, (E)	EXISTING
EXT	EXTERIOR
FCA	FLANGE COUPLING ADAPTER
FE	FINISH ELEVATION
FES	FLARED END SECTION
FF	FINISH FLOOR
FFC	FRONT FACE OF CURB
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
fps	FEET PER SECOND
FTG	FOOTING
G	GAS
GALV	GALVANIZED
GB	GRADE BREAK
GDW	GRAVEL DRIVEWAY
GD	GROUND
GV	GATE VALVE
H	HANDICAPPED
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INT	INTERSECTION
IRR	IRRIGATION
LAT	LATERAL
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MDD	MAXIMUM DRY DENSITY
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MMD	MAXIMUM MARSHALL DENSITY
MUTCD	MANUAL FOR TRAFFIC CONTROL DEVICES
N	NORTH
NAP	NOT A PART
NIP	NOT IN PROJECT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
(P)	PROPOSED
PCC	PORTLAND CEMENT CONCRETE
PG	PAD GRADE
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION VERTICAL CURVE
PL	PROPERTY LINE
POCC	POINT OF COMPOUND CURVATURE
POT	POINT OF TANGENCY
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q 5	5 YEAR PEAK FLOW
Q 100	100 YEAR PEAK FLOW
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
RET	CURB RETURN
RP	RADIUS POINT
RT	RIGHT
R/W, ROW	RIGHT-OF-WAY
S=	SLOPE
S	SOUTH
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SL	STREET LIGHT
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEAN OUT
SSMH	SANITARY SEWER MANHOLE
SSPWC	STANDARD SPEC. FOR PUBLIC WORKS CONSTRUCTION
STA	STATION
SW	SIDEWALK
TELE	TELEPHONE
TBO	TEMPORARY BLOW OFF VALVE
TC	TOP OF CURB, TOP OF CONC
TG	TO GRADE
TOB	TOP OF BERM
TF, TOF	TOP OF FOOTING
TOW	TOP OF WALL
TS	TRAFFIC SIGNAL
TSCB	TRAFFIC CONTROL SIGNAL BOX
TR	TOP OF RAIL
TRANS	TRANSITION
TYP	TYPICAL
UG/P	UNDER GROUND POWER
UNO	UNLESS NOTED OTHERWISE
Vs	VELOCITY AT 5 YEAR PEAK
VC	VERTICAL CURVE
VEL	VELOCITY
VERT	VERTICAL
VG	VALLEY GUTTER
W	WEST
W/G	WATER AND GAS
WL	WATER LINE
WM	WATER METER
WS	WATER SURFACE
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
YR	YEAR

811 Know what's below. Call before you dig.

NOTES:

GENERAL

1. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION REVISION 8, 10-19-2018.
2. THE CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY THE CITY OF SPARKS, FOR ALL DETAILING NOT SHOWN ON THESE PLANS.
3. CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. THE CITY OF SPARKS SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES, ALL UTILITY COMPANIES, OWNER'S REPRESENTATIVES, AND THE PROJECT ENGINEER PRIOR TO COMMENCING WORK. THIS MEETING SHALL BE HELD AT LEAST FORTY-EIGHT (48) HOURS, OR TWO (2) BUSINESS DAYS, PRIOR TO THE START OF CONSTRUCTION AND SHALL COMMUNICATE SCHEDULES, CONTRACTORS MEAN AND METHODS, MATERIALS TO BE USED, AND OTHER RELEVANT MATTERS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.
5. ALL WORK EITHER DIRECTLY OR INDIRECTLY RELATED TO THE PROJECT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY SYSTEM MANAGER.
6. THE CONTRACTOR SHALL MAINTAIN AN ONSITE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, FIELD CHANGES, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS. RECORDS SHALL BE IN GOOD ORDER AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
7. CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS REGARDING MATERIAL AND EQUIPMENT SUBMITTAL REQUIREMENTS.
8. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-642-2444 TO PROVIDE FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
9. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROCURE ALL NECESSARY PERMITS, LICENSES, INSURANCE POLICIES, ETC. AS MAY BE NECESSARY TO COMPLY WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK; UNLESS OTHERWISE OBTAINED BY THE OWNER.
11. CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS REGARDING PROJECT TRAFFIC CONTROL REQUIREMENTS. ALL TRAFFIC CONTROL PLANS SHALL BE PREPARED BY ATTSA CERTIFIED PERSONNEL.
12. THE CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTROL AND THE STANDARD SPECIFICATIONS.
13. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618.
14. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
15. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
16. TEMPORARY CONSTRUCTION FENCING SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT IN AREAS AS DELINEATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE TEMPARARY FENCING SHALL PREVENT CHILDREN AND PETS FROM ENTERING THE CONSTRUCTION AREA, CREATE A VISUAL BARRIER OF THE CONSTRUCTION ACTIVITIES FROM THE ADJACENT RESIDENCE AND YARDS, AND PROTECT VEGETATION FROM CONSTRUCTION EQUIPMENT.
17. THE CONTRACTOR SHALL USE ONLY AUTHORIZED SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AND OBTAIN PROPER APPROVALS FROM THE LAND OWNER AND LOCAL GOVERNING AUTHORITY TO DO SO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. IN THE EVENT A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE THE MONUMENT REPLACED, AT HIS OWN EXPENSE, BY A LICENSED SURVEYOR IN THE STATE OF NEVADA.
19. CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS REGARDING CONSTRUCTION HOURS.
20. ALL FIELD CHANGES MUST BE PRE-APPROVED BY THE CITY OF SPARKS.
21. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
22. THE OWNER IS RESPONSIBLE FOR FURNISHING QUALIFIED SITE INSPECTIONS AS REQUIRED TO COMPLY WITH LOCAL ORDINANCES.
23. A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THIS PROJECT. ALL RECOMMENDATIONS INCLUDED IN THE REPORT ARE HEREBY MADE A PART OF THE CONSTRUCTION DOCUMENTS UNLESS MODIFIED WITHIN THESE PLANS. INSPECTION AND TESTING DURING CONSTRUCTION SHALL BE REQUIRED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN THE REPORT.
    TITLE: GEOTECHNICAL INVESTIGATION REPORT - ALLEY G DESIGN
    DATE: JUNE 2022
    FIRM : LUMOS & ASSOCIATES, INC.

UNDERGROUND UTILITIES

24. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
25. NO OTHER UTILITIES MAY BE PLACED IN A WATER OR SEWER TRENCH.
26. ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEAN OUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES.
27. CONTRACTOR SHALL SUPPORT TRENCH SIDEWALLS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND GOVERNING SAFETY REGULATIONS. SHEETING OR SHORING SHALL CONFORM TO LOCAL REGULATIONS AND OSHA STANDARDS.
28. ENDS OF UNFINISHED PIPE SHALL BE SEALED AT THE END OF EACH DAY.
29. PIPE SHALL BE LAID IN THE UPHILL DIRECTION, WITH BELL ENDS UPHILL.

GRADING, EXCAVATION & SURFACE IMPROVEMENTS

30. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY TAKE-OFF AND SHALL BUDGET THE PROJECT ACCORDINGLY. ALL EXCESS GRADING MATERIALS SHALL BE DISPOSED OF OFFSITE.
31. ALL EARTHWORK ACTIVITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT.
32. THE SOILS ENGINEER SHALL APPROVE ALL EARTHWORK AND GRADING TO CONFIRM COMPACTION REQUIREMENTS ARE MET.
33. CONTRACTOR SHALL PROTECT EXISTING PAVING, CONCRETE, LANDSCAPING, FENCING, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS NOT SPECIFICALLY CALLED OUT FOR REPLACEMENT. CONTRACTOR SHALL REPAIR/REPLACE ANYTHING DAMAGED BY FORCES UNDER THEIR EMPLOY OR CONTRACT.
34. ALL ASPHALT CONCRETE SURFACES SHALL BE SAWCUT TWO FEET MINIMUM INSIDE THE EDGE OF PAVEMENT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED PAVEMENT TIE-IN EDGES SHALL BE METICULOUSLY CLEANED OF ALL LOOSE MATERIAL AND THEN TREATED WITH BITUMINOUS EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIALS SHALL BE GRADED AND RECOMPACTED PRIOR TO PAVING.

ENVIRONMENTAL

35. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND MAINTAINING A SWPPP.
36. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION AND SILTATION FROM ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES, AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
37. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM INCLUDING WATERING OF OPEN AREAS, TO CONFORM WITH THE LATEST FEDERAL, STATE, AND COUNTY AIR POLLUTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UPDATING DUST CONTROL PERMITS FOR THE PROJECT.
38. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
39. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES. GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED.
40. IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, PREPARE A DEWATERING PLAN, AND OBTAIN APPROVAL FROM THE PROJECT ENGINEER BEFORE PROCEEDING WITH WORK. DEWATERING ACTIVITIES MAY REQUIRE THE CONTRACTOR TO OBTAIN A DISCHARGE/PUMPING PERMIT FROM THE STATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH PERMITS.
41. ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.

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PROFESSIONAL ENGINEER STATE OF NEVADA ALEX J. GREENBLAT Exp: 06-30-23 CIVIL No. 24022

1/13/2023

CITY OF SPARKS — WASHOE COUNTY — NEVADA

2023 ALLEY REHABILITATION PROGRAM

ALLEY G

NOTES, ABBREVIATIONS, AND LEGEND

SPARKS — WASHOE COUNTY

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JOB NO.:	10687.001

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BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD83(94) BASED UPON REAL TIME KINEMATIC GPS OBSERVATIONS, OBSERVED 6-9-2021 USING A SURVEY GRADE DUAL FREQUENCY GPS RECEIVER FROM THE WASHOE COUNTY CONTROL NETWORK MODIFIED BY A COMBINED FACTOR OF 1.000197939, SCALED FROM 0.00N ,0.00E AND CONVERTED TO U.S. SURVEY FEET. ALL DIMENSIONS ON THIS MAP ARE GROUND DISTANCES.

BASIS OF ELEVATIONS

DATUM: NAVD 88
PROJECT BENCHMARK = USC&G BM #G374
HAVING AN ELEVATION OF 4426.65'

PROJECT CONTROL

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
502	14871596.54	2292696.77	4425.11	CP 5/8 R/C CONTROL
503	14871937.12	2293837.04	4418.04	CP 2.5" BRASS CAP
504	14871593.75	2293109.42	4422.25	CP 2.5" BRASS CAP

N

0 20' 40'
22x34 SHEETS: 1" = 20'
11x17 SHEETS: 1" = 40'

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PROJECT CONTROL
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DESIGNED BY: TDA
CHECKED BY: AJG
JOB NO.: 10687.001

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01/04/2023 11:19 am tadams

SURFACE IMPROVEMENT NOTES

A. SURFACE RESTORATION LIMITS ARE ESTIMATED AS SHOWN AND SHALL NOT BE CONSIDERED A MAXIMUM OR MINIMUM AREA. CONTRACTOR SHALL EVALUATE CONSTRUCTION METHODS, DESIGN DETAILS, EQUIPMENTS, SOILS, AND OTHER CONDITIONS TO DETERMINE QUANTITIES.

B. PROTECT ALL EXISTING STRUCTURES, TREES, UTILITIES, FENCING, BOXES, POLE, ETC, IN PLACE UNLESS NOTED OTHERWISE. IF DAMAGE IS CAUSE BY CONTRACTOR, THEN IT SHALL BE REPLACED AT NO DIRECT PAYMENT.

C. UNLESS OTHERWISE NOTED, PROTECT AND ADJUST ALL EXISTING UTILITY MANHOLE FRAME AND COVER, VALVE BOXES, AND VAULT COVERS TO NEW FINISH GRADE WITHIN IMPROVEMENT LIMITS.

D. PAVEMENT PATCHING SHALL MATCH EXISTING THICKNESS, BUT SHALL BE NO MORE THAN 6" AND NO LESS THAN 4". REFER TO PATCHING DETAIL ON SHEET D1.2.

E. REFERENCE GEOTECHNICAL REPORT AND DETAILS C100 / D1.0 FOR ALLEY SECTION DETAILS AND EXISTING ALLEY SECTION CONDITIONS.

F. EXPANSION JIONTS SHALL BE LOCATED AT ALL INTERFACES OF PCC PAVEMENT WITH PCC CURB, MANHOLES/CATCH BASINS, AND POLES. SEE DETAIL C303 / D1.2.

G. REFERENCE MUTCD 2009, FIGURE 3B-22 FOR ACCESSIBILITY PARKING SPACE MARKING SPECIFICATIONS.

LEGEND:

	REMOVE AND REPLACE PCC ALLEY	C100 / D1.0
	REMOVE AND REPLACE SIDEWALK	S-103 / D1.0
	REMOVE AND REPLACE PCC DRIVEWAY TRANSITION	C102 / D1.0
	PERMANENT ASPHALT PATCH	C103 / D1.0
	REMOVE AND REPLACE LANDSCAPE PAVERS	
	INSTALL POST CURB OR REINFORCED RETAINING CURB	C104 / D1.0 — C105 / D1.0
x x	REMOVE AND REPLACE EXISTING CHAIN LINK GATE FENCE	C301 / D1.2

SURFACE IMPROVEMENT QUANTITIES

NO.	DESCRIPTION	UNIT	QUANTITY
1	REMOVE & REPLACE PCC ALLEY	SF	6180
2	REMOVE & REPLACE PCC SIDEWALK	SF	101
3	REMOVE & REPLACE PCC DRIVEWAY TRANSITION	SF	420
4	PERMANENT ASPHALT PATCH	SF	1334
4	REMOVE & REPLACE LANDSCAPE PAVERS	SF	40
5	INSTALL PCC POST CURB	LF	4
6	INSTALL PCC REINFORCED RETAINING CURB	LF	18
7	ADJUST NEW CATCH BASIN TO FINISH GRADE WITH NEW FRAME AND COVER	EA	1
8	INSTALL PREFORMED THERMOPLASTIC ADA PARKING STALL PAVEMENT MARKING	EA	1
9	INSTALL "COMPACT" SPOT PAINT STENCILS	EA	7
10	PAVEMENT MARKING 4" SINGLE WHITE PAINT	LF	130
11	REMOVE AND REPLACE 4" BOLLARD	EA	8
12	INSTALL NEW 4" BOLLARD	EA	8
13	REMOVE AND REPLACE 4' CHAIN LINK FENCE / GATE	LF	52
15	REMOVE AND REPLACE 6' CHAIN LINK PRIVACY FENCE / GATE	LF	91

N

0 10' 20'

22x34 SHEETS: 1" = 10'
11x17 SHEETS: 1" = 20'

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2023 ALLEY REHABILITATION PROGRAM
ALLEY G
SURFACE IMPROVEMENT PLAN
WASHOE COUNTY
NEVADA
SPARKS

REV	DATE	DESCRIPTION	BY

ISSUED FOR BIDDING
NOT FOR CONSTRUCTION

BAR IS 1 INCH ON ORIGINAL DRAWING
0 N/A
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

C3.0

DRAWN BY: MEP / TDA
DESIGNED BY: TDA
CHECKED BY: AJG
JOB NO.: 10687.001

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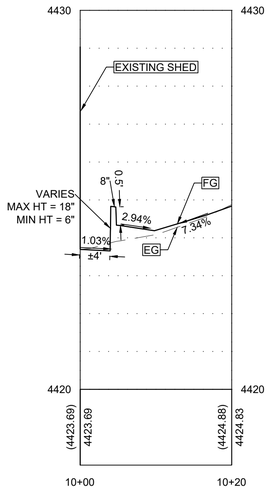
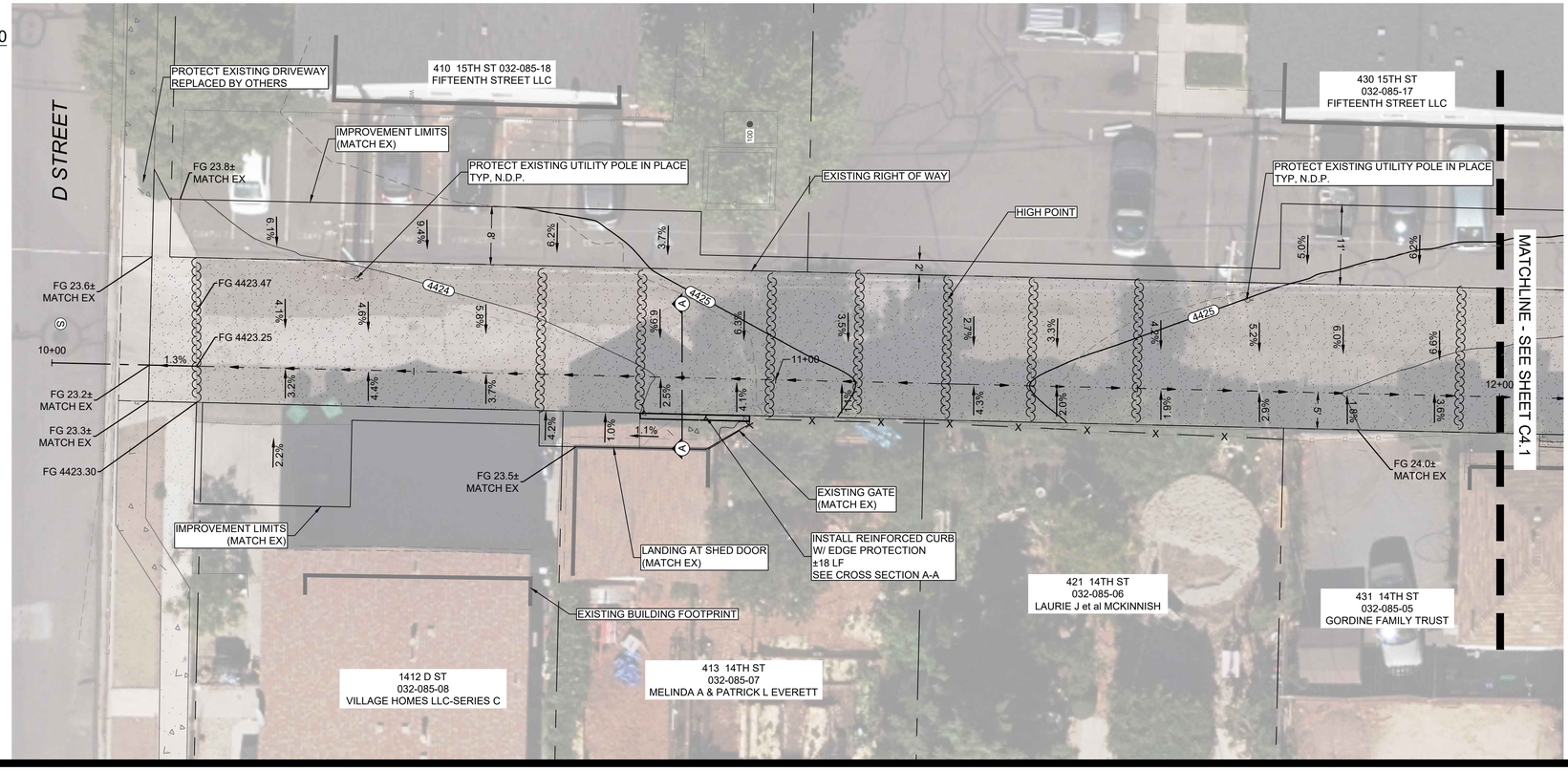
SECTION A-A - STA:10+00 TO STA:10+20

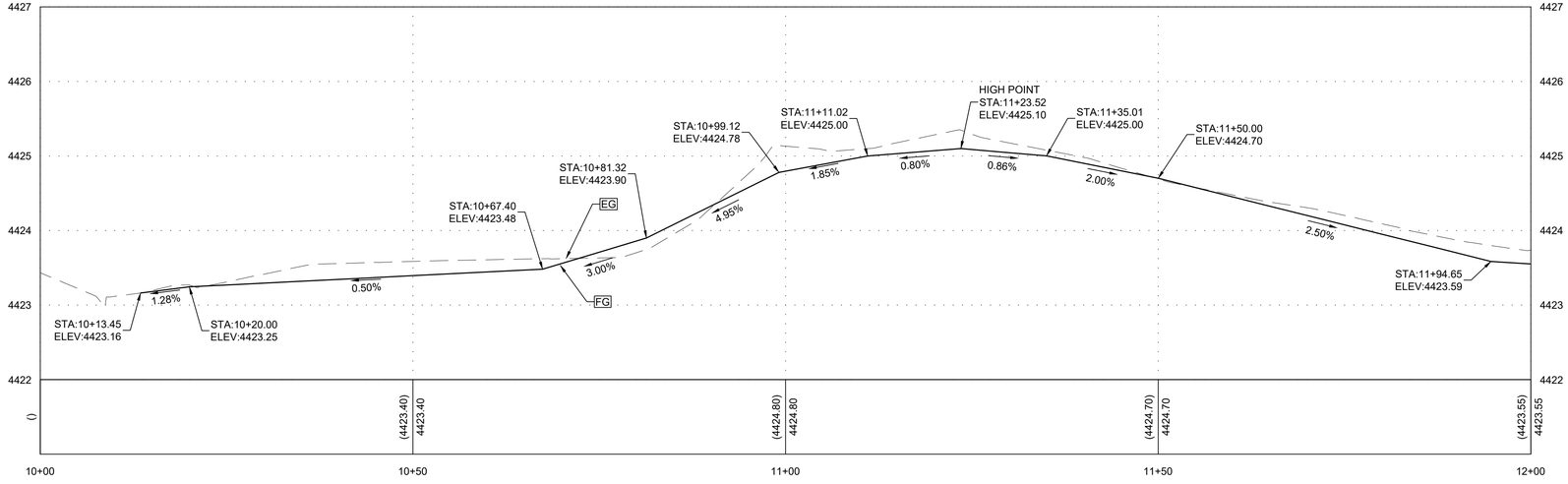




HORIZONTAL SCALE
0 10' 20'
22x34 SHEETS: 1" = 10'
11x17 SHEETS: 1" = 20'

VERTICAL SCALE
0 2' 4'
22x34 SHEETS: 1" = 2'
11x17 SHEETS: 1" = 4'

ALLEY G FL - STA:10+00 TO STA:12+00



GENERAL NOTES:

1. EXPANSION JOINTS SHALL BE LOCATED AT ALL INTERFACES OF PCC PAVEMENT WITH PCC CURB, MANHOLES/CATCH BASINS, AND POLES. SEE DETAIL C303 / D1.2
2. SITE GRADING SHALL BE CONSIDERED AS PART OF REMOVAL AND REPLACEMENT OF THE ALLEYWAY SECTION. REFER TO GEOTECHNICAL REPORT FOR OVER-EXCAVATION GUIDELINES.
3. REINFORCE PCC ADJACENT TO MANHOLES, UTILITY POLES, CATCH BASINS, VALVES, ETC. PER DETAIL C102 / D1.2.
4. LANDSCAPING DOES NOT INCLUDE FENCING. FENCING IS PAID FOR AS SPECIFIED IN BID ITEM CLARIFICATIONS. PROTECT ALL EXISTING FENCING IN PLACE UNLESS NOTED OTHERWISE ON PLANS.
5. BUSHES AND TREES SHALL BE TRIMMED OR REMOVED AS NECESSARY FOR CONSTRUCTION BY AN ISA CERTIFIED ARBORIST. NO DIRECT PAYMENT FOR THIS WORK.
6. FOR UTILITY IMPROVEMENTS REFER TO SHEET C5.0 AND C5.1.

HORIZONTAL SCALE
0 10' 20'
22x34 SHEETS: 1" = 10'
11x17 SHEETS: 1" = 20'

VERTICAL SCALE
0 1' 2'
22x34 SHEETS: 1" = 1'
11x17 SHEETS: 1" = 2'

LUMOS & ASSOCIATES
9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

PROFESSIONAL ENGINEER ALEX J. GREENBLAT Exp: 06-30-23 CIVIL No. 24022 STATE OF NEVADA
1/13/2023

CITY OF SPARKS
2023 ALLEY REHABILITATION PROGRAM
ALLEY G
GRADING PLAN - STA. 10+00 TO 12+00
SPARKS WASHOE COUNTY NEVADA

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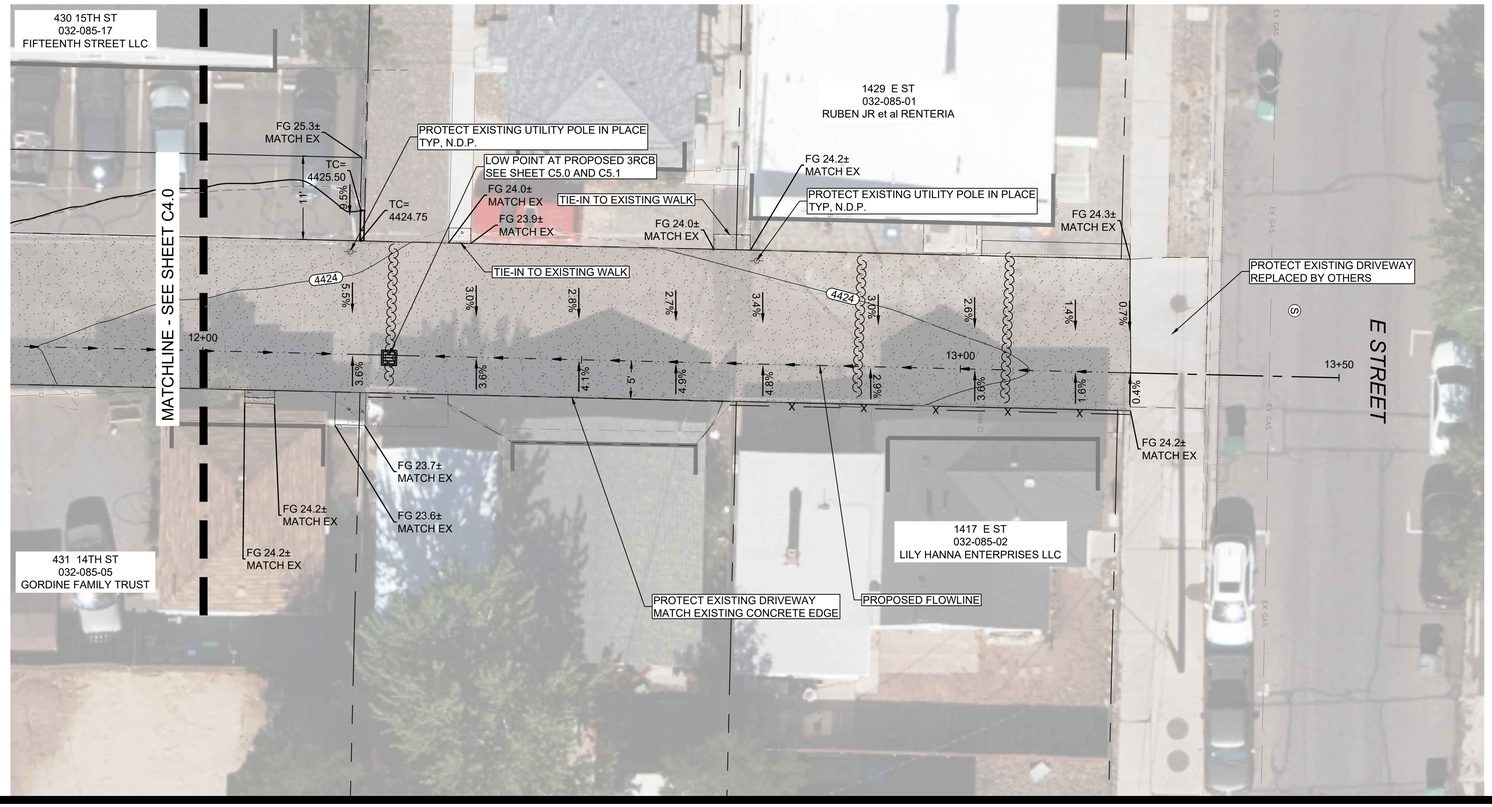
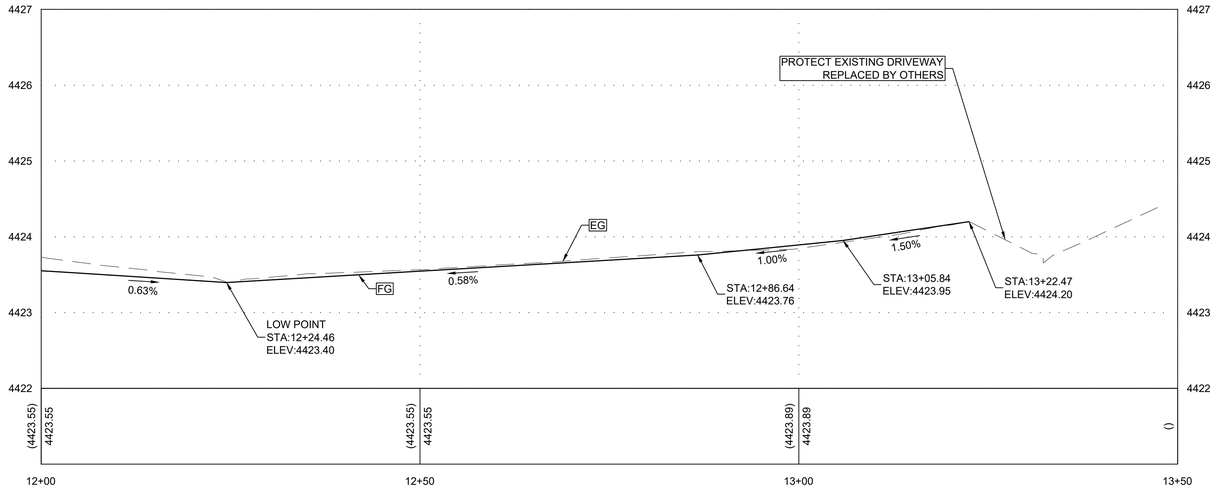


ALLEY G FL - STA:12+00 TO STA:13+50



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2. SITE GRADING SHALL BE CONSIDERED AS PART OF REMOVAL AND REPLACEMENT OF THE ALLEYWAY SECTION. REFER TO GEOTECHNICAL REPORT FOR OVER-EXCAVATION GUIDELINES.
3. REINFORCE PCC ADJACENT TO MANHOLES, UTILITY POLES, CATCH BASINS, VALVES, ETC. PER DETAIL C102 / D1.2.
4. LANDSCAPING DOES NOT INCLUDE FENCING. FENCING IS PAID FOR AS SPECIFIED IN BID ITEM CLARIFICATIONS. PROTECT ALL EXISTING FENCING IN PLACE UNLESS NOTED OTHERWISE ON PLANS.
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6. FOR UTILITY IMPROVEMENTS REFER TO SHEET C5.0 AND C5.1.

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VERTICAL SCALE
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CITY OF SPARKS
2023 ALLEY REHABILITATION PROGRAM
ALLEY G
GRADING PLAN - STA. 12+00 TO 13+50
WASHOE COUNTY
NEVADA
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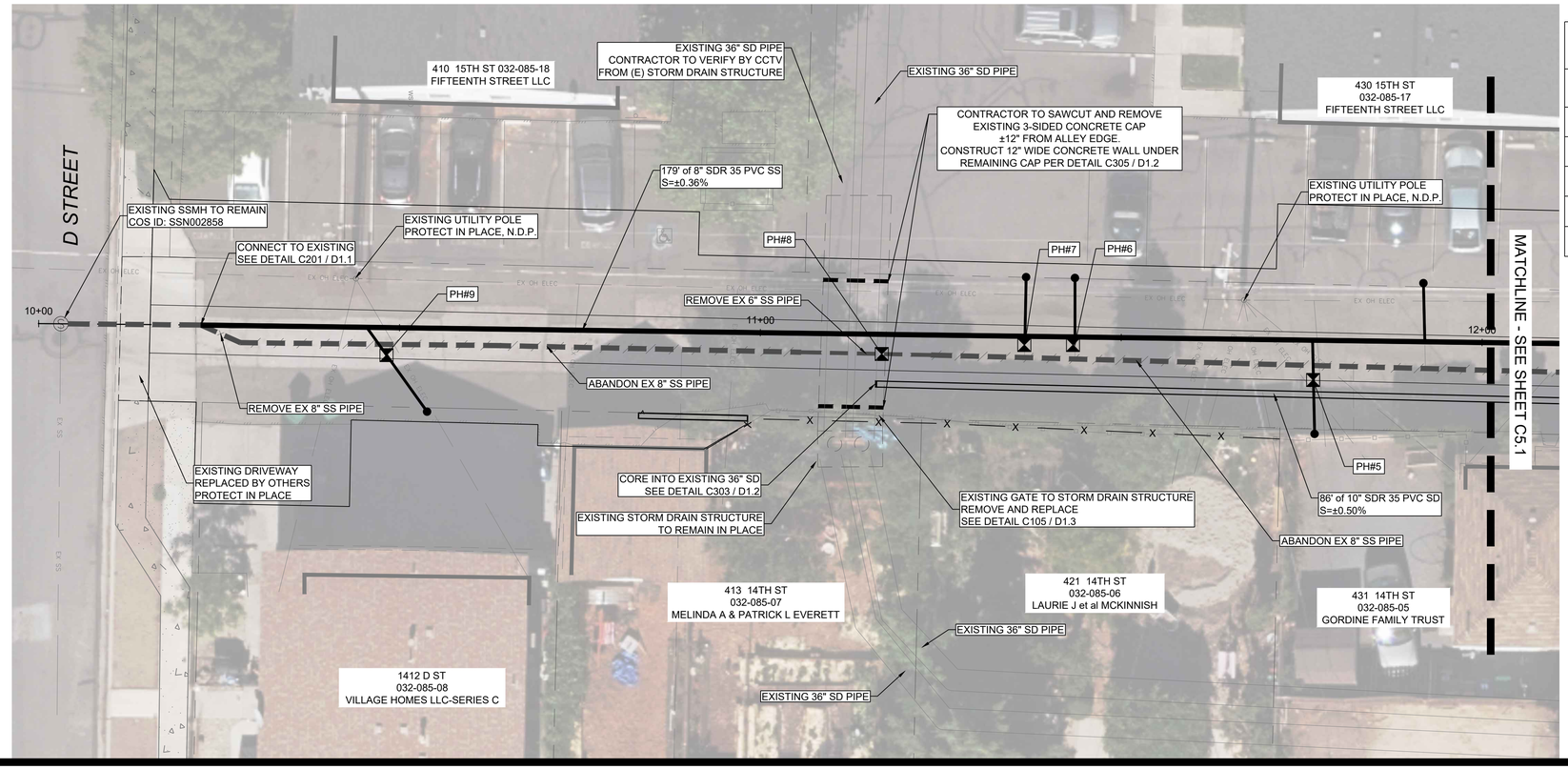
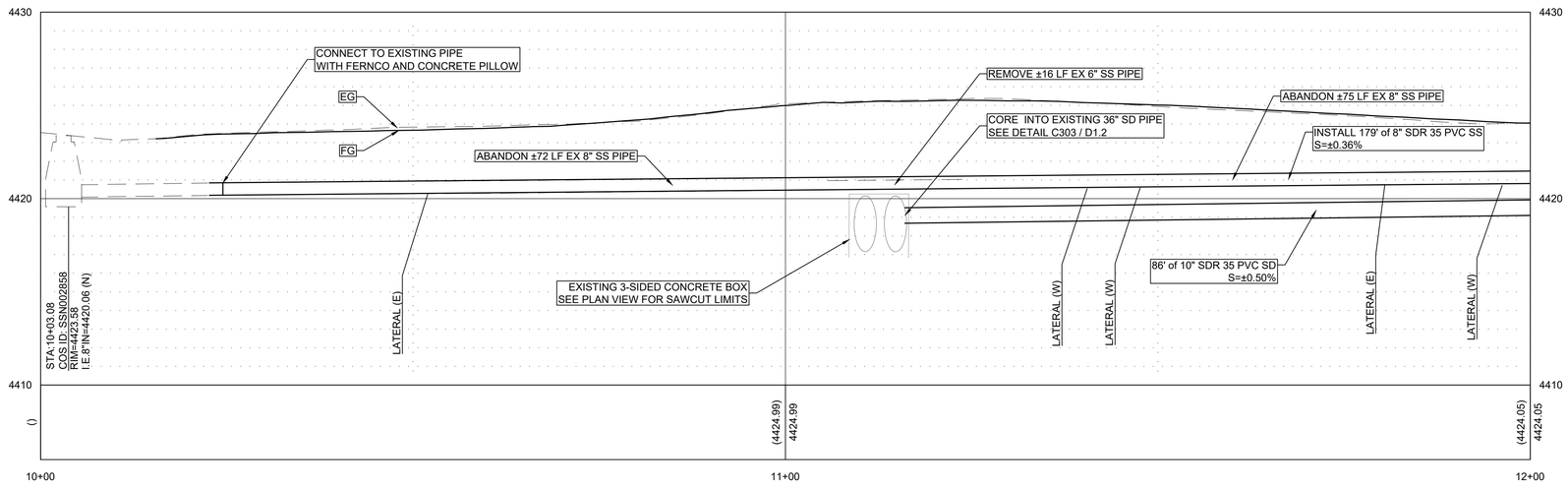


0 10' 20'
22x34 SHEETS: 1" = 10'
11x17 SHEETS: 1" = 20'

POTHOLE DATA

POTHOLE NO.	DESCRIPTION
PH#5	4" PVC LATERAL, 2 O'CLOCK @ 34" TO TOP OF PIPE
PH#6	4" PVC SS LATERAL, 46" TO TOP OF PIPE
PH#7	4" PVC SS LATERAL, 2 O'CLOCK @ 48" TO TOP OF PIPE
PH#8	36" RCP SD MAIN (APPROXIMATE) @ 62" TO TOP OF PIPE
PH#9	4" PVC SS LATERAL, 3 O'CLOCK @ 35" TO TOP OF PIPE

ALLEY G UTILITY - STA:10+00 TO STA:12+00



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VERTICAL SCALE
0 5' 10'
22x34 SHEETS: 1" = 5'
11x17 SHEETS: 1" = 10'

UTILITY NOTES:

1. 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 PLANS ARE APPROXIMATE AND NOT TO BE RELIED ON AS EXACT OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE AND VERIFY THE LOCATIONS AND DEPTH OF EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO INSTALLATION OF STORM DRAIN AND SANITARY SEWER.
2. CONTRACTOR TO VERIFY ALL SEWER LATERALS BY DYE, SMOKE, PUSH CAMERA, ETC. AND RECONNECT ALL ACTIVE LATERALS AND INSTALL SANITARY SEWER CLEANOUT PER DETAIL C202 / D1.1.
3. CONTRACTOR TO SETUP MEANS OF BYPASS PUMPING FOR EXISTING FLOWS DURING INSTALLATION OF PROPOSED SANITARY SEWER.
4. CONTRACTOR TO USE STORM DRAIN INLET PROTECTION IN AND/OR AROUND ALL STORM DRAIN MANHOLES AND CATCH BASINS.
5. CONTRACTOR TO VERIFY EXISTING STORM DRAIN FACILITIES AND CORE INTO EXISTING 36" STORM DRAIN PIPE PER DETAIL C-300 / D1.2.
6. ALL PIPES TO BE ABANDONED IN-PLACE SHALL BE FILLED BY PRESSURE GROUTING PER DETAIL C306 / D1.2.

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ALEX J. GREENBLAT
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No. 24022
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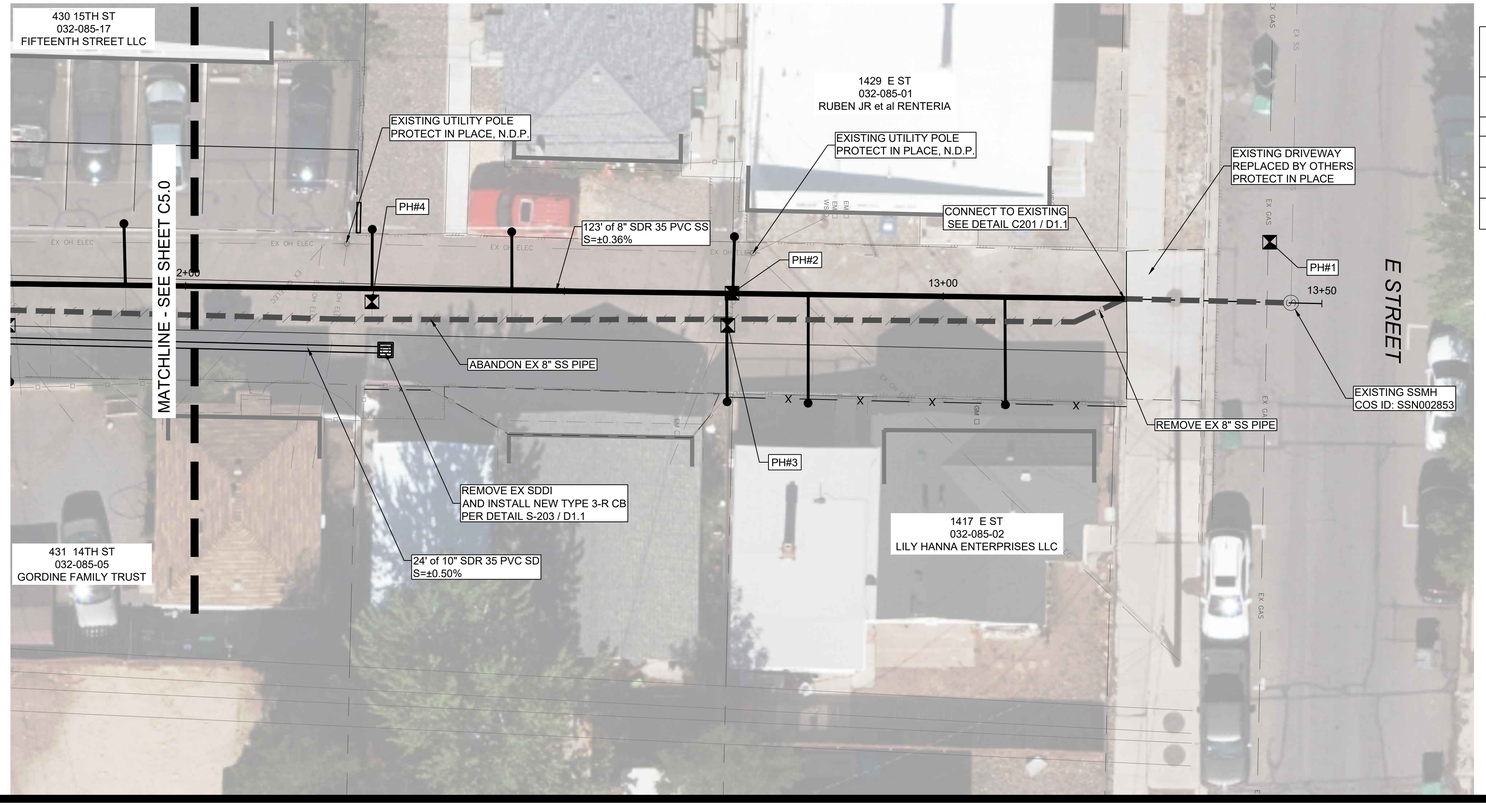
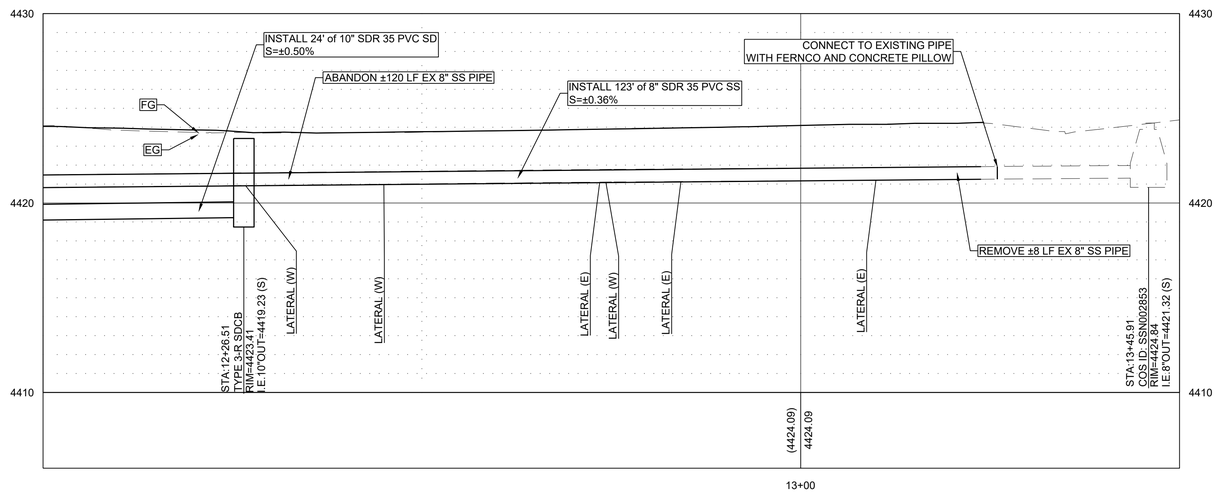


POTHOLE DATA

POTHOLE NO.	DESCRIPTION
PH #1	2" GAS LINE @ 42" TO TOP OF PIPE
PH#2	4" PVC SS LATERAL, 3 O'CLOCK @ 25.5" TO TOP OF PIPE
PH#3	4" PVC SS LATERAL, 2 O'CLOCK @ 23" TO TOP OF PIPE
PH#4	4" PVC SS LATERAL @ 26" TO TOP OF PIPE

0 10' 20'
22x34 SHEETS: 1" = 10'
11x17 SHEETS: 1" = 20'

ALLEY G UTILITY - STA:12+00 TO STA:13+50



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2. CONTRACTOR TO VERIFY ALL SEWER LATERALS BY DYE, SMOKE, PUSH CAMERA, ETC. AND RECONNECT ALL ACTIVE LATERALS AND INSTALL SANITARY SEWER CLEANOUT PER DETAIL C202 / D1.1.
3. CONTRACTOR TO SETUP MEANS OF BYPASS PUMPING FOR EXISTING FLOWS DURING INSTALLATION OF PROPOSED SANITARY SEWER.
4. CONTRACTOR TO USE STORM DRAIN INLET PROTECTION IN AND/OR AROUND ALL STORM DRAIN MANHOLES AND CATCH BASINS.
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REGISTERED PROFESSIONAL ENGINEER
ALEX J. GREENBLAT
Exp: 06-30-23
CIVIL
No. 24022
STATE OF NEVADA
1/13/2023

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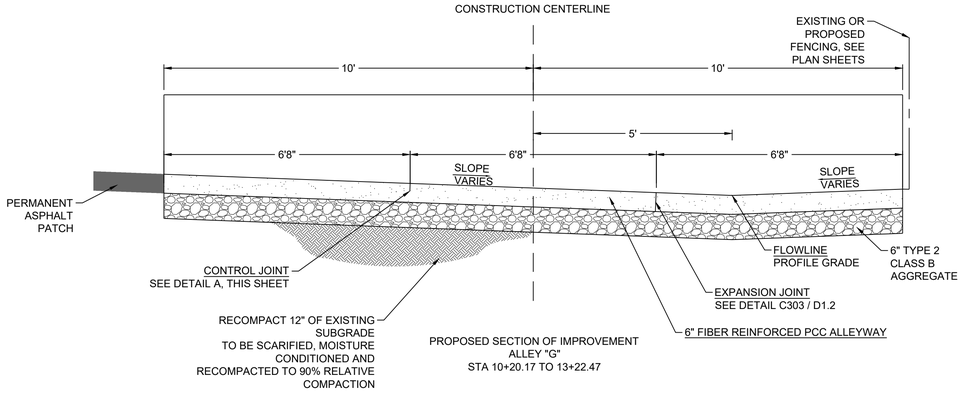
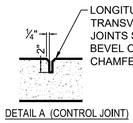




DETAIL A (CONTROL JOINT)

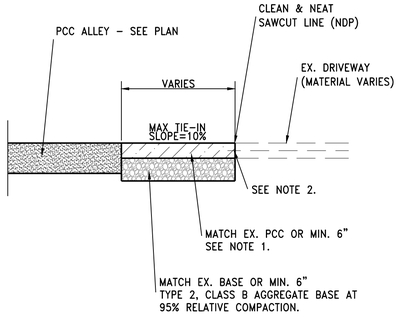
NOTES:

1. PCC PAVEMENT SHALL BE JOINTED AS SHOWN ABOVE FOR LONGITUDINAL JOINTS AND 10'-0" ON CENTER FOR TRANSVERSE JOINTS. DEVIATIONS FROM THIS LAYOUT MUST BE APPROVED BY THE ENGINEER. JOINTS TO BE CUT A MINIMUM OF 4 HOURS TO A MAXIMUM OF 12 HOURS AFTER CONCLUSION OF BRUSH FINISHING. SEE DETAIL A THIS SHEET.
2. CONTRACTOR TO POUR VALLEY GUTTER LIMITS AS SHOWN ON PLAN ABOVE FIRST AND SEPARATELY FROM REMAINING PCC WIDTH.

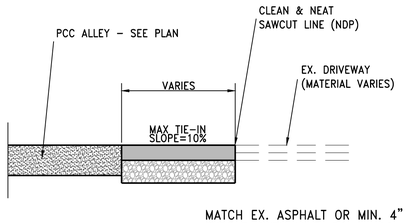
C100 / D1.0 PROPOSED SECTION OF IMPROVEMENT ALLEY "G"
SCALE: NTS

NOTES:

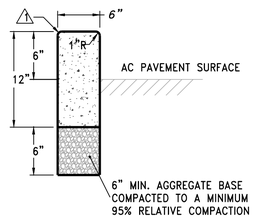
1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 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.
2. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES. DOWEL INTO EXISTING ADJACENT CONCRETE DRIVEWAY APPROACH WITH (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.



C101 / D1.0 P.C.C. DRIVEWAY TRANSITION
SCALE: NTS



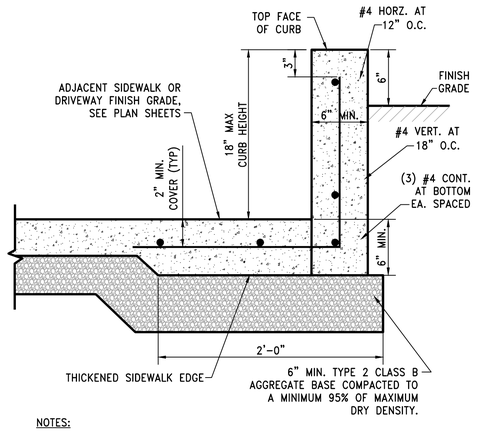
C102 / D1.0 PERMANENT BITUMINOUS PAVEMENT PATCH BEHIND PCC ALLEY
SCALE: NTS



NOTES:

1. RADIUS TO BE 1/2 INCH, OMIT ROUNDING IF CURBS ARE BACK TO BACK.
2. FIBER-REINFORCED 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). 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.
2. AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
3. WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET AND LOCATED ON THE BACK, TOP AND FACE OF THE CURB AND THE TOP OF THE GUTTER PAN.

C103 / D1.0 P.C.C. POST CURB
SCALE: NTS



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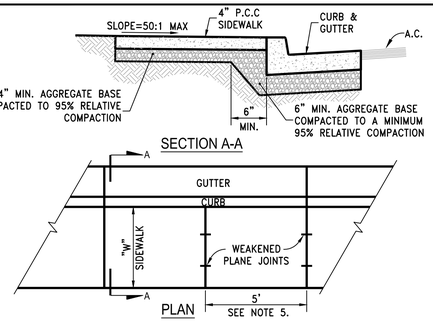
2. AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
3. WEAKENED PLANE JOINTS SHALL MATCH SPACING OF ADJACENT SIDEWALK OR DRIVEWAY AND IN ACCORDANCE WITH SECTION 312 OF SSPWC.
4. SIDEWALK AND/OR DRIVEWAY SECTIONS MAY BE PLACED MONOLITHICALLY WITH POST CURB SECTIONS.

C104 / D1.0 P.C.C. REINFORCED RETAINING CURB
SCALE: NTS

NOTES:

1. 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.
2. AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
3. SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. WITH 60" PASSING SPACE EVERY 200' ON RESIDENTIAL STREETS AND 6 FT MIN. ON COLLECTOR AND ARTERIAL STREETS.
4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC, AS ADOTED BY CITY COUNCIL.
5. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW SIDEWALK. DOWEL INTO EXISTING ADJACENT CONCRETE SIDEWALK WITH A MINIMUM OF TWO (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
6. SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.
7. TUNNELING AND/OR BORING IS NOT ALLOWED.



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.
City of Sparks	NOTES - P.C.C. ALLEY	S-113B
		APPROVED BY: JE | DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.
City of Sparks	SIDEWALK DETAIL	S-103
		APPROVED BY: JE | DATE: 1/2020

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CHECKED BY:	AJG
JOB NO.:	10687.001

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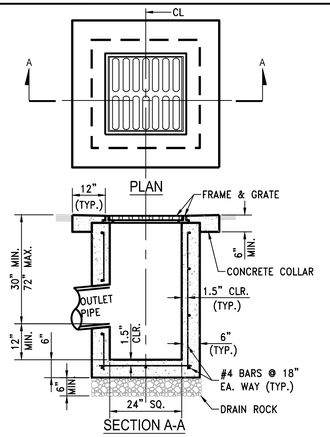
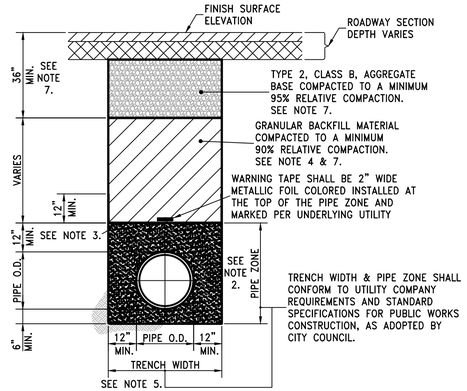


NOTES:

1. 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.
2. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" CLEAR COVER.
3. CONCRETE STRUCTURE MAY BE A PRE-CAST CONCRETE UNIT. BASE OF PRE-CAST CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
4. FRAME & GRATE SHALL BE D&L I-9226 OR APPROVED EQUAL.
5. CATCH BASIN SHALL BE TRAFFIC-RATED AND USED ONLY AT LOW POINTS IN ALLEYS OR PARKING AREAS.
6. ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.

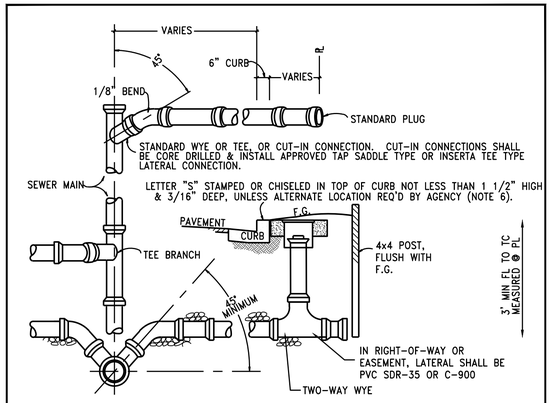
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.
City of Sparks	CATCH BASIN TYPE 3-R	S-203
		APPROVED BY: JE | DATE: 1/2020



NOTES:

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

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.
City of Sparks	TRENCH EXCAVATION/BACKFILL	S-117
		APPROVED BY: JE | DATE: 1/2020



NOTES

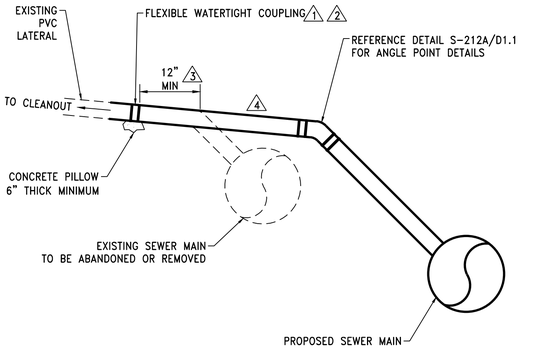
1. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 2%, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. LATERAL SHALL BE CUT BACK TO SOUND MATERIAL FOR COUPLING.
3. ALL CONNECTIONS TO THE CITY SEWER MAINS MUST BE CORE DRILLED.
4. ENCASE LATERAL CONNECTION IN CEMENT, STABILIZED SAND OR 2000 PSI CONCRETE FOLLOWING INSTALLATION. CONNECTION MUST BE INSPECTED BY CITY PRIOR TO BACKFILL.
5. NO LATERAL CONNECTIONS SHALL BE MADE TO SANITARY SEWER "INTERCEPTOR" LINES WITHOUT THE APPROVAL OF THE CITY ENGINEER.
6. ALL APPLICABLE SANITARY SEWER PIPE INSTALLATION WORK SHALL BE IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.

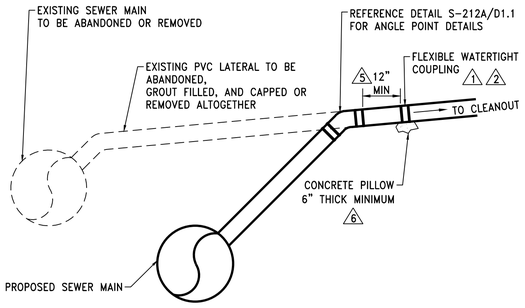
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.
City of Sparks	SANITARY SEWER LATERAL	S-212A
		APPROVED BY: JE | DATE: 1/2020

NOTES:

1. SEWER LATERALS SHALL HAVE A MINIMUM PIPE DIAMETER OF 4-INCHES.
2. ALL PLASTIC PIPE USED FOR SEWER SERVICE LATERAL CONSTRUCTION SHALL BE SOLID WALL AND SHALL MEET THE REQUIREMENTS OF D-2412, HAVE A MINIMUM STIFFNESS OF 46 PSI AS DEFINED BY THE REQUIREMENTS OF ASTM D-3034.
3. SERVICE LATERALS SHALL HAVE A MINIMUM SLOPE OF 1/4-INCH PER FOOT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. SEWER LATERALS SHALL HAVE A MINIMUM COVER OF 36-INCHES IN THE PUBLIC RIGHT-OF-WAY AND IN EASEMENTS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. THE DEFINITION OF "COVER" IS THE DISTANCE FROM THE TOP OF PIPE TO FINISHED GRADE.
5. USE OF SEWER SERVICE TAP SADDLE CONNECTIONS SHALL NOT BE ALLOWED FOR NEW SEWER MAIN CONSTRUCTION. WHEN A TAP SADDLE CONNECTION IS TO BE USED ON AN EXISTING SEWER MAIN, IT SHALL BE A WYE SADDLE AND BE INSTALLED PER DETAIL S-212C.
6. SEWER LATERALS SHALL HAVE A CLEANOUT INSTALLED BETWEEN SIDEWALK AND RIGHT-OF-WAY. A G5 BOX CLEARLY MARKED "SEWER" SHALL BE INSTALLED OVER THE TOP OF THE CLEANOUT RISER CAP PIPE.
7. SEWER LATERALS SHALL NOT BE CONNECTED DIRECTLY TO OR WITHIN 5-FEET OF A MANHOLE STRUCTURE.
8. EXISTING SEWER LATERALS SHALL BE CUT BACK TO SOUND MATERIAL FOR COUPLING. PLACE 6-INCH THICK CONCRETE PAD UNDER CONNECTION.
9. SEWER LATERAL CONNECTION SHALL BE STABILIZED WITH APPROVED MATERIAL FOLLOWING INSTALLATION. CONNECTION TO CITY SEWER MAIN MUST BE INSPECTED BY THE CITY PRIOR TO BACKFILL.
10. NO LATERAL CONNECTIONS SHALL BE MADE DIRECTLY TO A SANITARY SEWER "INTERCEPTOR" UNLESS APPROVED BY THE CITY ENGINEER.
11. SEWER LATERALS SHALL NOT BE CONNECTED TO A SEWER MAIN UNLESS THE CONNECTION POINT IS BETWEEN TWO MANHOLE STRUCTURES.
12. EACH INDIVIDUAL PARCEL SHALL HAVE A MINIMUM OF ONE SEWER LATERAL. TWO OR MORE PARCELS SHALL NOT SHARE ONE SEWER LATERAL.
13. SANITARY SEWER LATERAL IDENTIFICATION AND LOCATING REQUIREMENTS SHALL BE PER SPARKS MUNICIPAL CODE 17.16.130 (SMC 17.16.130).
14. DISCONTINUANCE OF USE OF AN EXISTING SEWER LATERAL REQUIRES ABANDONMENT OF THE LATERAL. CUT, REMOVE 1-FOOT OF EXISTING LATERAL AND CAP BOTH ENDS OF THE EXISTING SEWER LATERAL TO BE ABANDONED WITHIN 6-INCHES OF THE SEWER MAIN. ABANDONMENT MUST BE INSPECTED BY CITY PRIOR TO BACKFILL.
15. PROPERTY OWNER SHALL BE RESPONSIBLE FOR OPERATION, MAINTENANCE AND REPAIR OF THE SEWER LATERAL WITHIN THE PUBLIC RIGHT-OF-WAY PER SPARKS MUNICIPAL CODE.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION		DRAWING No.
City of Sparks	NOTES - SANITARY SEWER LATERAL	S-212B
		APPROVED BY: JE | DATE: 1/2020



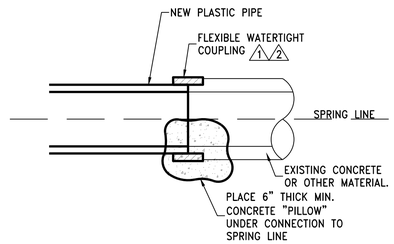


NOTES:

1. RC5000 STRONG BACK COUPLING OR APPROVED EQUAL SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR TO VERIFY OUTSIDE DIAMETER OF EXISTING PIPE AND PROVIDE PROPER FLEXIBLE WATERTIGHT COUPLINGS. IF CIPP IS ENCOUNTERED, EPOXY LINER AT END OF PIPE.
3. CONTRACTOR TO CONNECT THE NEW LATERAL TO THE EXISTING LATERAL A MINIMUM OF 12" FROM THE ANGLE POINT OF THE EXISTING LATERAL.
4. THE NEW LATERAL EXTENSION SHALL MAINTAIN SIMILAR SLOPE AS THE EXISTING LATERAL UNTIL THE ANGLE POINT TO THE NEW MAIN. ADJUSTMENTS MAY BE NECESSARY IF UTILITY CONFLICTS EXIST.
5. CONTRACTOR SHALL EXTEND CONNECTION TO EXISTING LATERAL A MINIMUM OF 12" BEYOND THE NEW ANGLE POINT.
6. CONCRETE PILLOW DOES NOT NEED TO BE PLACED IF A NEW LATERAL IS CONSTRUCTED ALL THE WAY BACK TO THE CLEANOUT.

C200 D1.1 EXISTING PVC LATERAL EXTENSION AND CONNECTION TO NEW MAIN

SCALE: NTS



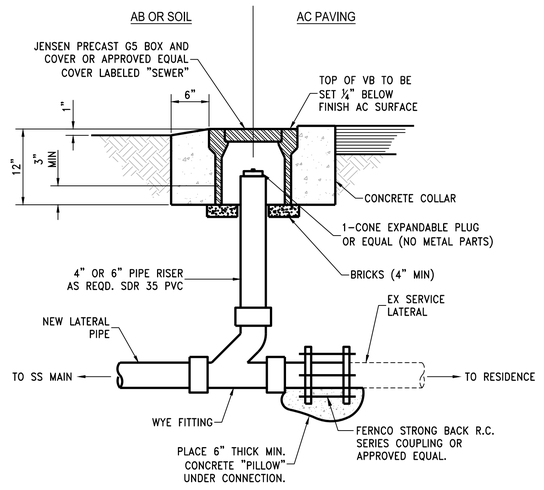
SECTION

NOTES:

1. RC5000 STRONG BACK COUPLING OR APPROVED EQUAL SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR TO VERIFY OUTSIDE DIAMETER OF EXISTING PIPE AND PROVIDE PROPER FLEXIBLE WATERTIGHT COUPLINGS. IF CIPP IS ENCOUNTERED, EPOXY LINER AT END OF PIPE.

C201 D1.1 EXISTING PIPE TO NEW PVC PIPE CONNECTION

SCALE: NTS



C202 D1.1 LATERAL CLEANOUT DETAIL

SCALE: NTS

LUMOS & ASSOCIATES
9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

PROFESSIONAL ENGINEER ALEX J. GREENBLAT Exp: 06-30-23 CIVIL No. 24022 STATE OF NEVADA

1/13/2023

CITY OF SPARKS
2023 ALLEY REHABILITATION PROGRAM
ALLEY G
DETAIL SHEET
WASHOE COUNTY
NEVADA
SPARKS

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		ISSUED FOR BIDDING NOT FOR CONSTRUCTION	

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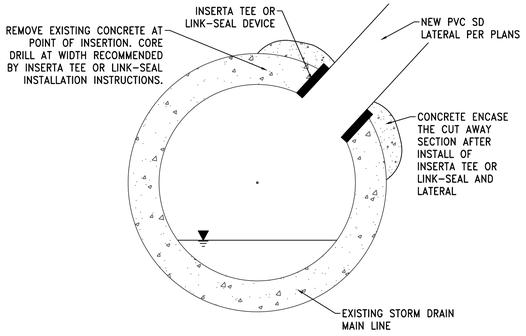
DESIGNED BY:	TDA
CHECKED BY:	AJG
JOB NO.:	10687.001

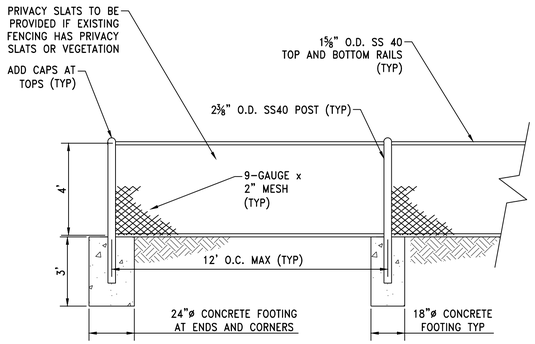


NOTES:

1. "INSERTA TEE", "LINK-SEAL" OR APPROVED EQUAL, FOR THE CONNECTION TO THE EXISTING STORM DRAIN SYSTEM, SHALL BE INSTALLED TO MANUFACTURER'S RECOMMENDATIONS

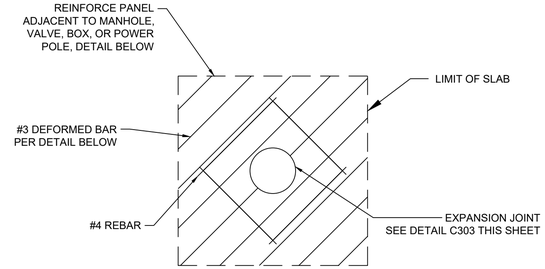
C300 D1.2 CORE DRILL INTO EXISTING STORM DRAIN MAIN

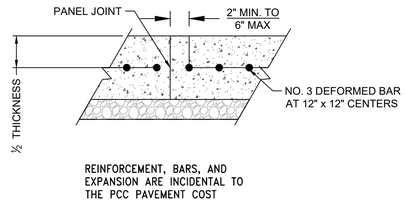
SCALE: NTS



C301 D1.2 CHAINLINK FENCE AND POSTS

SCALE: NTS

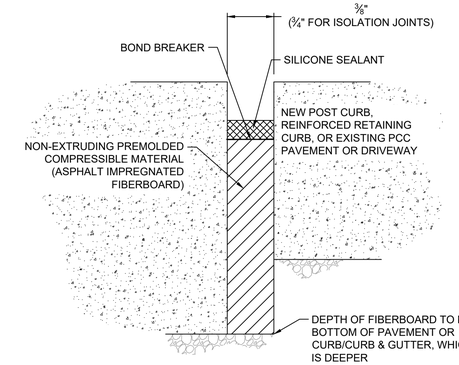




REINFORCEMENT, BARS, AND EXPANSION ARE INCIDENTAL TO THE PCC PAVEMENT COST

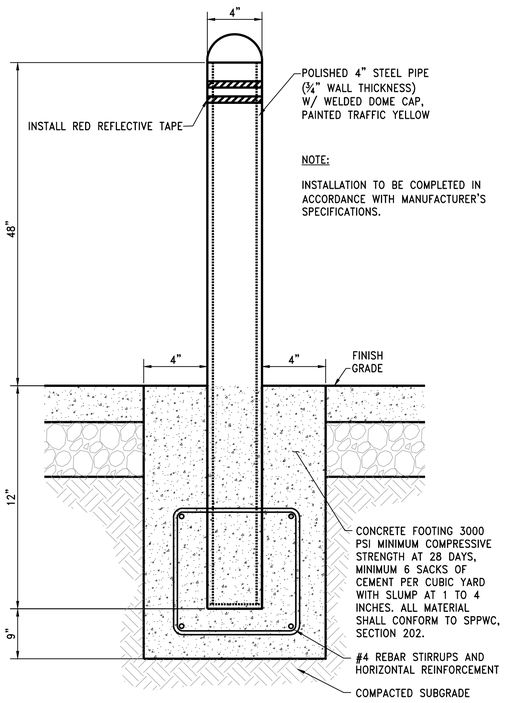
C302 D1.2 REINFORCEMENT DETAIL FOR MANHOLES, VALVES, AND POLES

SCALE: NTS



C303 D1.2 TYPICAL EXPANSION JOINT

SCALE: NTS

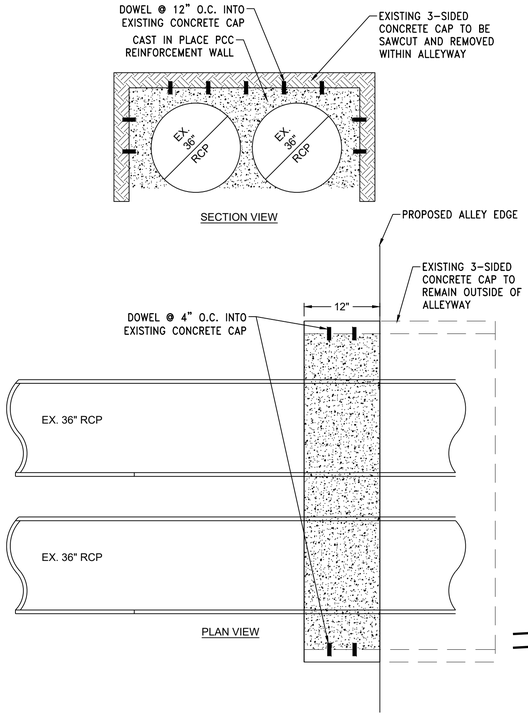


NOTE:

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

C304 D1.2 4" DIAMETER BOLLARD

SCALE: NTS

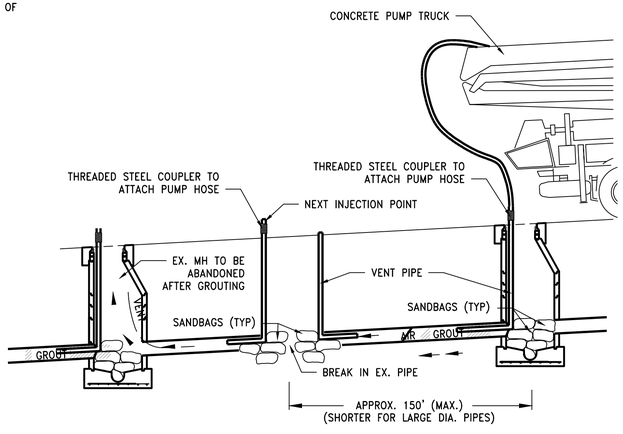


C305 D1.2 3-SIDED CONCRETE CAP REINFORCEMENT WALL

SCALE: NTS

NOTES:

1. FLUSH PIPE W/ WATER TO LUBRICATE PRIOR TO GROUTING.
2. VERIFY ALL EX. LATERALS ARE ABANDONED & CAPPED. (VIDEO.)
3. GROUT WILL FLOW OUT OF VENT PIPE, GIVING VISUAL CONFIRMATION THAT MAINLINE IS FULL OF GROUT.
4. CUT & BURY STAND PIPES MIN. 18" BELOW GRADE AFTER GROUTING IS COMPLETE.
5. PREPARE MULTIPLE SECTIONS FOR GROUTING IN ADVANCE SO THAT PUMP TRUCK DOES NOT HAVE DOWN TIME BETWEEN SECTIONS.
6. CONCRETE TRUCKS TO ARRIVE BEFORE PREVIOUS TRUCK EMPTIES. (SEE NOTE #5.)
7. PUMP IN DIRECTION OF FLOW (DOWNSTREAM.)
8. RECOMMEND SMALLER SECTIONS (<100') TO BE ABANDONED TO DECREASE LIKELIHOOD OF LOCKING UP BEFORE PIPE IS FILL OF GROUT. OVER 100'=COMMON LOCKUP. (THIS IS BASED ON PIPE DIAMETER, SLOPE AND OBSTRUCTIONS.)



C306 D1.2 PIPE ABANDONMENT WITH GROUT

SCALE: NTS

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CITY OF SPARKS

2023 ALLEY REHABILITATION PROGRAM

ALLEY G

DETAIL SHEET

WASHOE COUNTY

SPARKS

NEVADA

REV	DATE	DESCRIPTION	BY

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DESIGNED BY:	TDA
CHECKED BY:	AJG
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