

# CIVIL IMPROVEMENT PLANS VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 SPARKS, NEVADA

## TRUCKEE MEADOWS REGIONAL STORMWATER QUALITY NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF SPARKS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF SPARKS AND THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORMWATER GENERAL PERMIT NV100000, SECTION 1.B.A.b. (2).
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIST LOCATIONS AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NV100000, SECTION 1.B.A.g.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

## SITE NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION 2012 EDITION (AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AND DISTRIBUTED BY RENO, SPARKS, AND WASHOE COUNTY.
2. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINT OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
4. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING B.M.P. IMPROVEMENTS THAT ARE IN PLACE, AND SHALL PROVIDE AND MAINTAIN ADDITIONAL B.M.P.'S AS REQUIRED TO IMPLEMENT THEIR S.W.P.P.P.
6. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, NV ENERGY, CITY OF SPARKS, AND THE TRUCKEE MEADOWS WATER AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
8. ALL DIMENSIONS ARE TO FRONT FACE OF CURB UNLESS NOTED OTHERWISE.
9. ALL STRIPING AND SIGNAGE SHALL CONFORM TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

## GRADING NOTES:

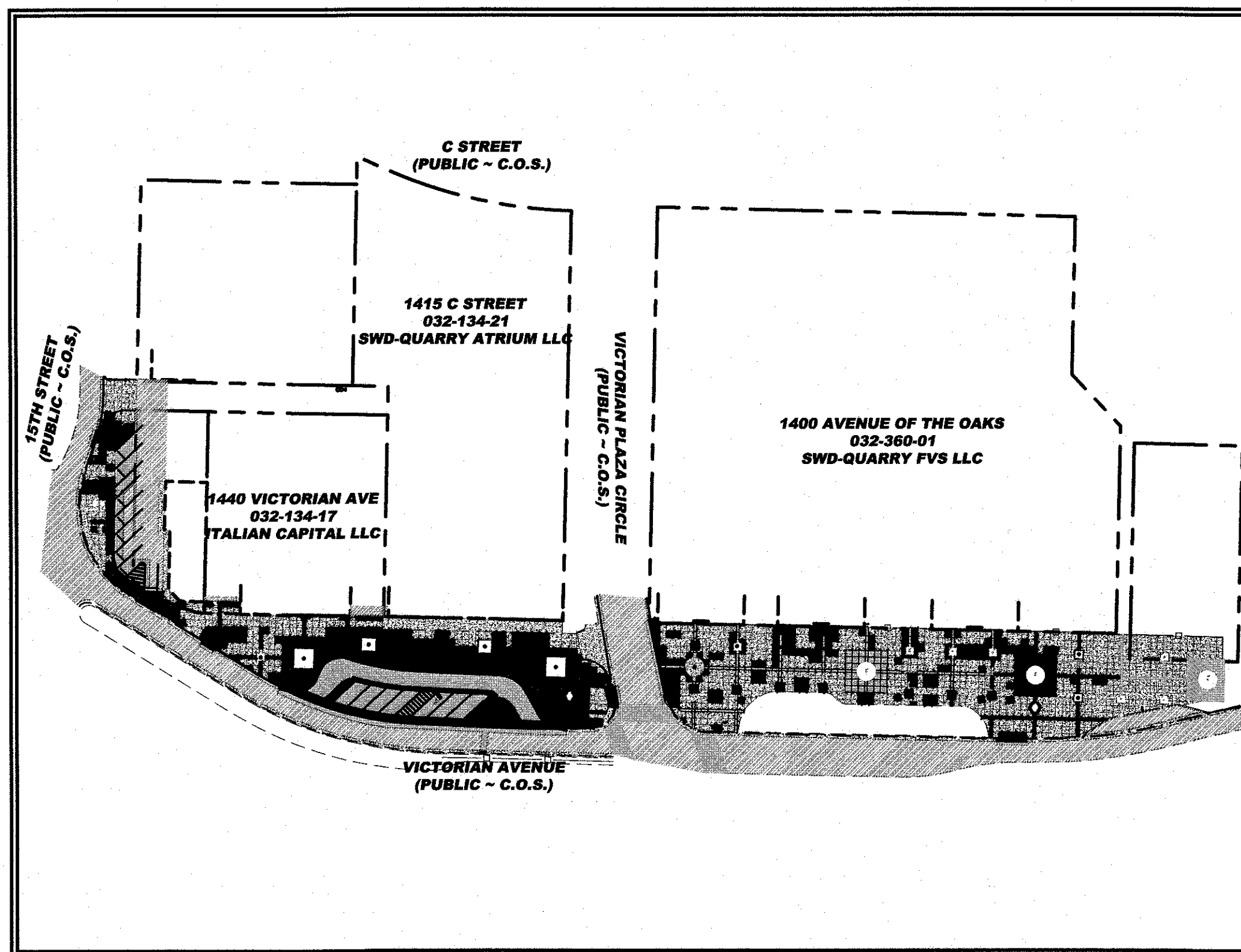
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2. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING WATERING OF OPEN AREAS. THE CONTRACTOR SHALL ALSO MAINTAIN CONFORMITY WITH SECTION 040.030 OF THE WASHOE COUNTY AIR POLLUTION REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINT OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS PER FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
5. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE TAKEN FROM SURFACE EVIDENCE AND AVAILABLE UTILITY COMPANY RECORDS. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD. ODYSSEY ENGINEERING INC. ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF SUCH RECORDS.
6. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
7. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND OWNERS PERSONNEL.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING B.M.P. IMPROVEMENTS THAT ARE IN PLACE, AND SHALL PROVIDE AND MAINTAIN ADDITIONAL B.M.P.'S AS REQUIRED TO IMPLEMENT HIS S.W.P.P.P.
9. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
10. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, NV ENERGY, CITY OF SPARKS, AND THE TRUCKEE MEADOWS WATER AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
11. ADD 4400 FEET TO ALL TRUNCATED ELEVATIONS.
12. EXISTING LANDSCAPING SHALL BE PRESERVED AS MUCH AS PRACTICAL DURING SITE IMPROVEMENTS CONSTRUCTION.

## LIST OF ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE	L.F.	LINEAL FEET
B.C.	BEGIN CURVE	M.H.	MANHOLE
B.V.C.	BEGIN VERTICAL CURVE	P.	PAD ELEVATION
B.S.	BACK OF SIDEWALK	P.I.	POINT OF INTERSECTION
C.B.	CATCH BASIN	P.R.C.	POINT OF REVERSE CURVATURE
C	CENTERLINE	P.O.T.	POINT OF TANGENT
CH	CHORD	P.V.C.	POLYVINYL CHLORIDE PIPE
C.M.P.	CORRUGATED METAL PIPE	R	PROPERTY LINE
CONC.	CONCRETE	(R)	RADIAL
CONST.	CONSTRUCT	R	RADIUS
C.P.	CONCRETE PIPE	REF.	REFERENCE
D.I.	DROP INLET	RET.	RETURN
DET.	DETAILS	R.C.P.	REINFORCED CONCRETE PIPE
ELEV.	ELEVATION	RT.	RIGHT
E.C.	END OF CURVE	R/W	RIGHT OF WAY
E.V.C.	END VERTICAL CURVE	S.S.	SANITARY SEWER
EXIST.	EXISTING	S.W.	SIDEWALK
E.G.	EXISTING GRADE	SHT.	SHEET
F.F.	FINISH FLOOR	STA.	STATION
F.F.C.	FRONT FACE CURB	S.D.	STORM DRAIN
F.G.	FINISH GRADE	T	TANGENT
F.H.	FIRE HYDRANT	T.C.	TOP OF CURB
G	GAS	T.P.	TOP OF PAVEMENT
G.B.	GRADE BREAK	TYP.	TYPICAL
HORIZ.	HORIZONTAL	VERT.	VERTICAL
INT.	INTERSECTION	V.C.	VERTICAL CURVE
I.E.	INVERT ELEVATION	V.P.I.	VERTICAL POINT OF INTERSECTION
LT.	LEFT	W	WATER
L	LENGTH		



VICINITY MAP



SITE LAYOUT

## OWNER/DEVELOPER

CITY OF SPARKS  
SPARKS, NV 89436

## CIVIL ENGINEER

ODYSSEY ENGINEERING, INC.  
895 ROBERTA LANE, SUITE #104  
SPARKS, NV 89431  
(775) 359-3303

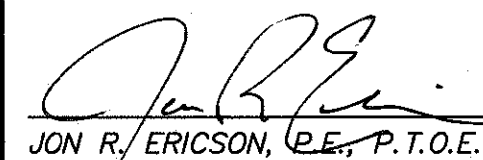
## CIVIL SHEET INDEX

- 1 ..... TITLE SHEET
- 2 ..... CIVIL DEMO PLAN
- 3 ..... CIVIL DEMO PLAN
- 4 ..... CIVIL SITE PLAN
- 5 ..... CIVIL SITE PLAN
- 6 ..... CIVIL GRADING PLAN
- 7 ..... CIVIL GRADING PLAN
- 8 ..... CIVIL UTILITY PLAN
- 9 ..... CIVIL UTILITY PLAN
- 10 ..... CIVIL DETAILS
- 11 ..... CIVIL DETAILS
- 12 ..... CIVIL DETAILS
- 13 ..... CIVIL DETAILS
- 14 ..... ART LOCATIONS
- 15 ..... ART LOCATIONS

## SPECIFICATIONS

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS, FOR PUBLIC WORKS CONSTRUCTION (2012 EDITION AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AND DISTRIBUTED BY THE CITY OF SPARKS AND WASHOE COUNTY.

CITY OF SPARKS APPROVAL:

  
 JON R. ERICSON, P.E., P.T.O.E.      DATE: 2/5/21  
 CITY ENGINEER

## ENGINEER'S CERTIFICATE

THESE PLANS, SHEETS 1 OF 16 THROUGH 16 OF 16, HAVE BEEN PREPARED IN ACCORDANCE WITH THE CITY OF SPARKS CODE.

FRANK A. BIDART      P.E. #10504

REV.	DATE	DESCRIPTION	BY	APP'D

DATE: FEB 4, 2021  
 DRAWN BY: ACAD 20  
 DESIGNED BY: TCP  
 CHECKED BY: FAB

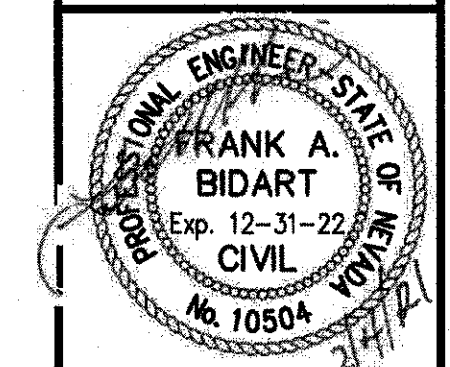
VICTORIAN AVE. INFRASTRUCTURE  
 IMPROVEMENTS SECTION 4  
 TITLE SHEET

SPARKS      WASHOE      NEVADA

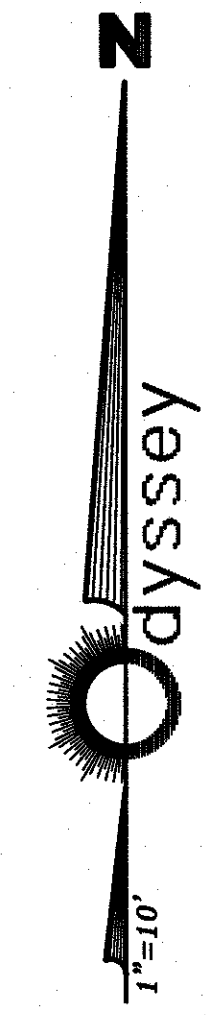
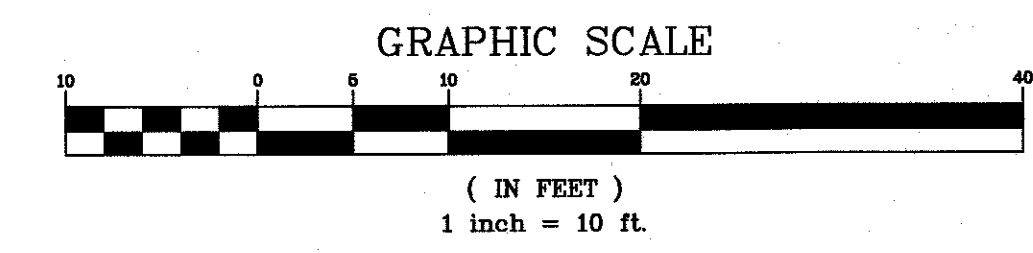
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 (775) 359-3303 FAX (775) 359-3329  
 ODYSSEYENGINEERING.COM

Odyssey

ENGINEERING  
INCORPORATED



SCALE	
HORIZ.	
VERT.	
JOB NO.	4273
SHEET	1
OF	15



REV.	DATE	DESCRIPTION	BY	APP'D

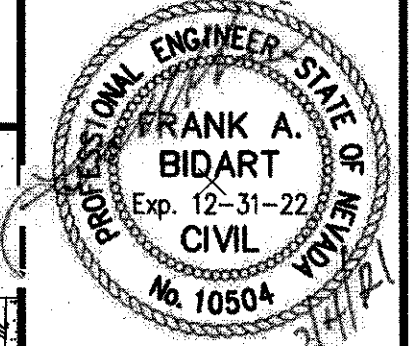
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VICTORIAN AVE. INFRASTRUCTURE  
 IMPROVEMENTS SECTION 4  
 DEMO PLAN

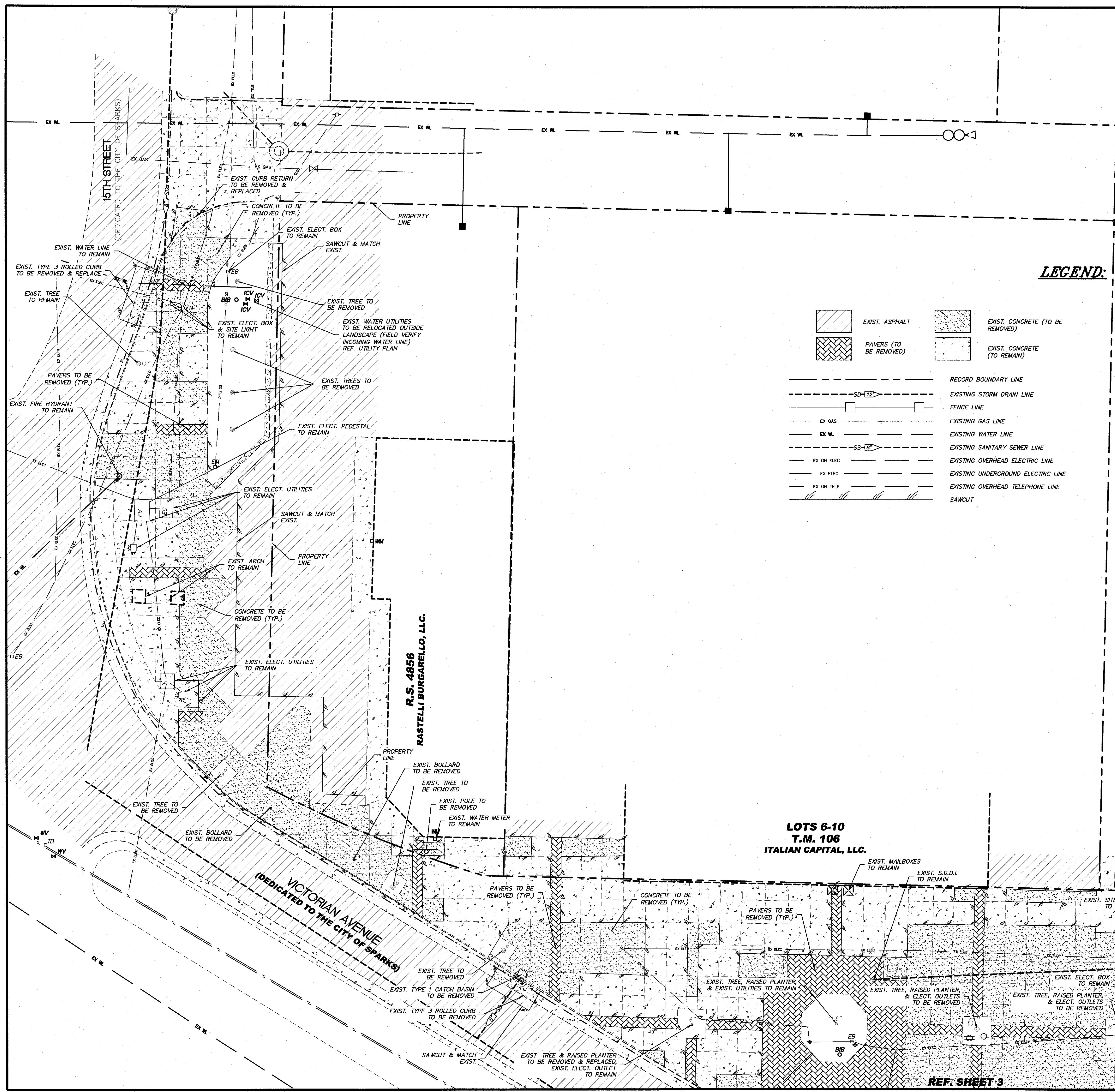
SPARKS NEVADA  
 WASHOE

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SCALE  
 HORIZ. 1" = 10'  
 VERT. -  
 JOB NO. 4273  
 SHEET 2 OF 15



**LEGEND:**

- |  |                                  |  |                                    |
|--|----------------------------------|--|------------------------------------|
|  | EXIST. ASPHALT                   |  | EXIST. CONCRETE (TO BE REMOVED)    |
|  | PAVERS (TO BE REMOVED)           |  | EXIST. CONCRETE (TO REMAIN)        |
|  | RECORD BOUNDARY LINE             |  | EXISTING STORM DRAIN LINE          |
|  | FENCE LINE                       |  | EXISTING WATER LINE                |
|  | EXISTING GAS LINE                |  | EXISTING OVERHEAD ELECTRIC LINE    |
|  | EXISTING WATER LINE              |  | EXISTING SANITARY SEWER LINE       |
|  | EXISTING OVERHEAD ELECTRIC LINE  |  | EXISTING UNDERGROUND ELECTRIC LINE |
|  | EXISTING OVERHEAD TELEPHONE LINE |  | SAWCUT                             |

- |  |                                    |  |                          |
|--|------------------------------------|--|--------------------------|
|  | CABLE TELEVISION BOX               |  | ELECTRIC OUTLET          |
|  | TELEPHONE BOX                      |  | BOLLARD                  |
|  | TELEPHONE VAULT                    |  | UTILITY POLE             |
|  | SANITARY SEWER CLEANOUT            |  | LIGHT POLE               |
|  | MANHOLE                            |  | ELECTRIC BOX             |
|  | STORM DRAIN DROP INLET             |  | ELECTRIC METER           |
|  | STORM DRAIN CATCH BASIN (TYPE 4-R) |  | ELECTRIC CABINET         |
|  | STORM DRAIN CATCH BASIN (TYPE 1)   |  | VERTICAL TRAFFIC CONTROL |
|  | SIGN                               |  | ELECTRIC VAULT           |
|  | FIRE HYDRANT                       |  | TRAFFIC SIGNAL           |
|  | WATER METER                        |  | ELECTRIC TRANSFORMER     |
|  | WATER VALVE                        |  | TREE                     |
|  | IRRIGATION CONTROL VALVE           |  |                          |
|  | GROUND HYDRANT                     |  |                          |
|  | BACKFLOW                           |  |                          |
|  | GAS METER                          |  |                          |
|  | GAS VALVE                          |  |                          |

LOTS 6-10  
 T.M. 106  
 ITALIAN CAPITAL, LLC.

R.S. 4856  
 RASTELLI BURGARELLO, LLC.

R.S. 6012  
 SWD-QUARRY ATRIUM, LLC.

*John E. ...* 2/5/21  
 CITY ENGINEER

REF. SHEET 3

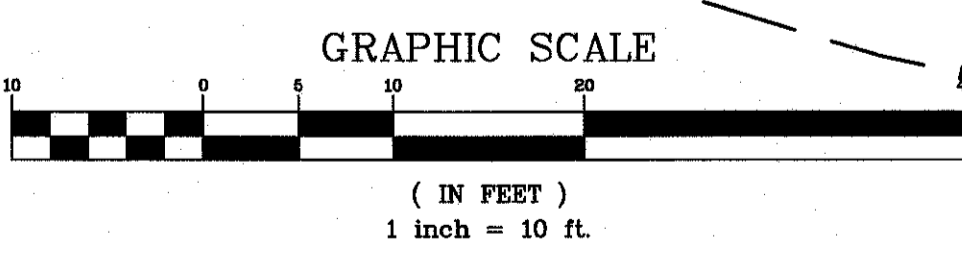
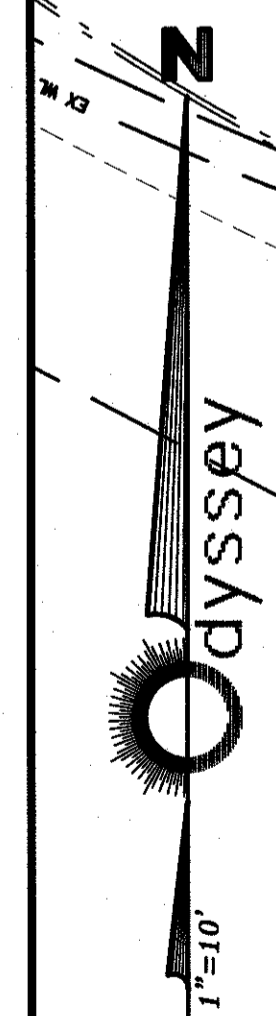
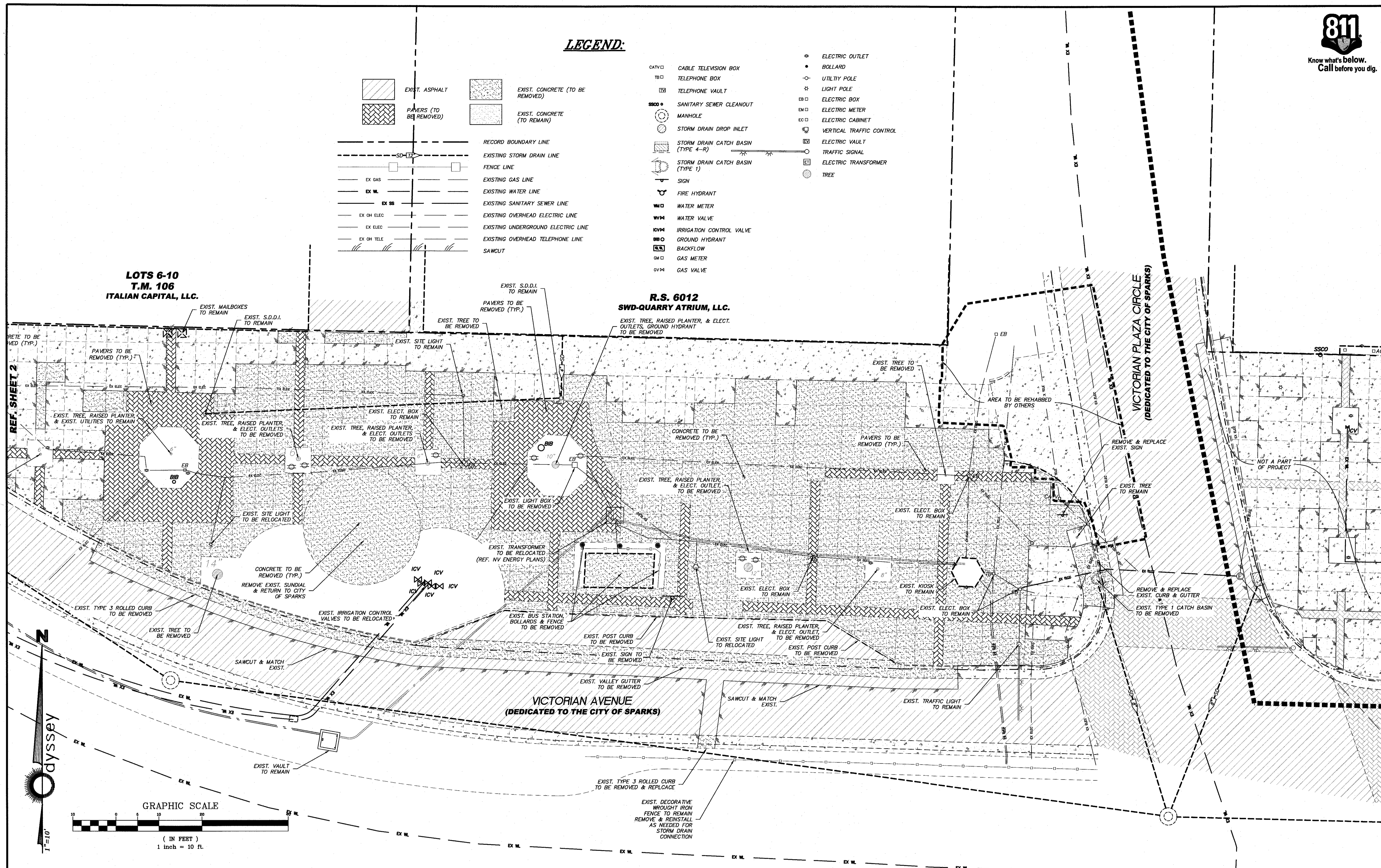


**LEGEND:**

- |  |                                    |  |                                 |  |                          |
|--|------------------------------------|--|---------------------------------|--|--------------------------|
|  | EXIST. ASPHALT                     |  | EXIST. CONCRETE (TO BE REMOVED) |  | ELECTRIC OUTLET          |
|  | PAVERS (TO BE REMOVED)             |  | EXIST. CONCRETE (TO REMAIN)     |  | BOLLARD                  |
|  | RECORD BOUNDARY LINE               |  |                                 |  | UTILITY POLE             |
|  | EXISTING STORM DRAIN LINE          |  |                                 |  | LIGHT POLE               |
|  | FENCE LINE                         |  |                                 |  | ELECTRIC BOX             |
|  | EXISTING GAS LINE                  |  |                                 |  | ELECTRIC METER           |
|  | EXISTING WATER LINE                |  |                                 |  | ELECTRIC CABINET         |
|  | EXISTING SANITARY SEWER LINE       |  |                                 |  | VERTICAL TRAFFIC CONTROL |
|  | EXISTING OVERHEAD ELECTRIC LINE    |  |                                 |  | ELECTRIC VAULT           |
|  | EXISTING UNDERGROUND ELECTRIC LINE |  |                                 |  | TRAFFIC SIGNAL           |
|  | EXISTING OVERHEAD TELEPHONE LINE   |  |                                 |  | ELECTRIC TRANSFORMER     |
|  | SAWCUT                             |  |                                 |  | TREE                     |

**LOTS 6-10  
T.M. 106  
ITALIAN CAPITAL, LLC.**

**R.S. 6012  
SWD-QUARRY ATRIUM, LLC.**



REV.	DATE	DESCRIPTION	BY	APP'D

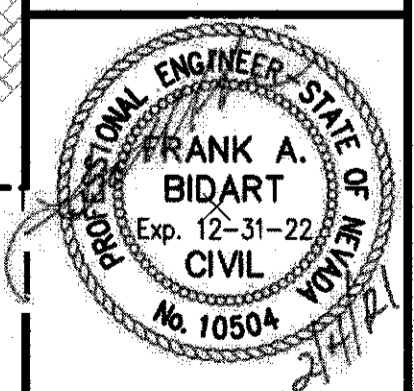
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 CHECKED BY: FAB

**VICTORIAN AVE. INFRASTRUCTURE  
IMPROVEMENTS SECTION 4  
CIVIL DEMO PLAN**

SPARKS WASHOE NEVADA

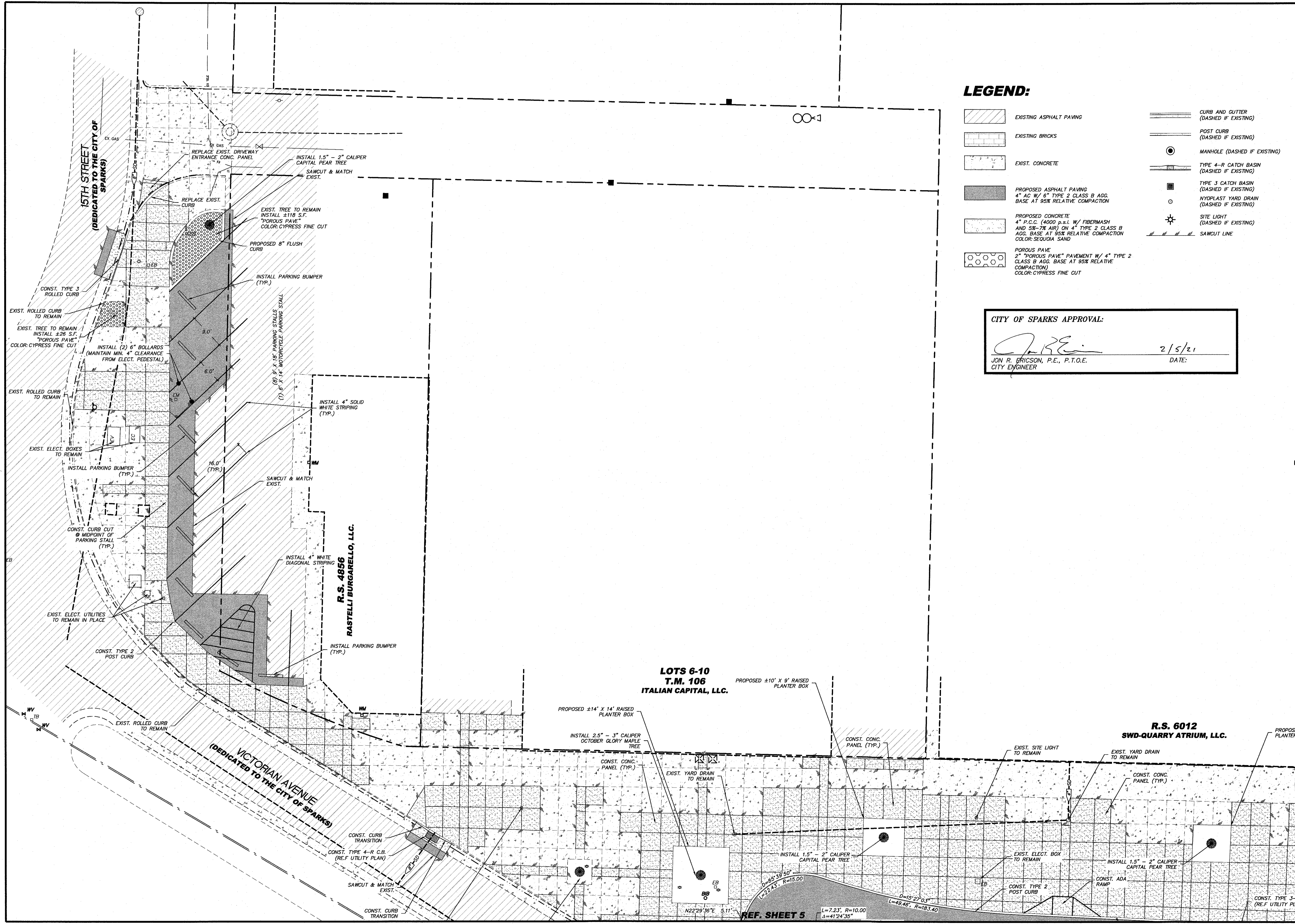
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SCALE	HORIZ. 1"=10'
VERT.	-
JOB NO.	4273
SHEET	3
OF	15

*J. Reid* 2/5/21  
CITY ENGINEER



**LEGEND:**

- EXISTING ASPHALT PAVING
- EXISTING BRICKS
- EXIST. CONCRETE
- PROPOSED ASPHALT PAVING  
4" AC W/ 6" TYPE 2 CLASS B AGG.  
BASE AT 95% RELATIVE COMPACTION
- PROPOSED CONCRETE  
4" P.C.C. (4000 p.s.i. W/ FIBERMASH  
AND 5%-7% AIR) ON 4" TYPE 2 CLASS B  
AGG. BASE AT 95% RELATIVE COMPACTION  
COLOR: SEQUOIA SAND
- POROUS PAVE  
2" "POROUS PAVE" PAVEMENT W/ 4" TYPE 2  
CLASS B AGG. BASE AT 95% RELATIVE  
COMPACTION  
COLOR: CYPRESS FINE CUT
- CURB AND GUTTER  
(DASHED IF EXISTING)
- POST CURB  
(DASHED IF EXISTING)
- MANHOLE (DASHED IF EXISTING)
- TYPE 4-R CATCH BASIN  
(DASHED IF EXISTING)
- TYPE 3 CATCH BASIN  
(DASHED IF EXISTING)
- NYOPLAST YARD DRAIN  
(DASHED IF EXISTING)
- SITE LIGHT  
(DASHED IF EXISTING)
- SAWCUT LINE

**CITY OF SPARKS APPROVAL:**

2/5/21  
 JON R. ERICSON, P.E., P.T.O.E. DATE:  
 CITY ENGINEER

REV.	DATE	DESCRIPTION	BY	APP'D

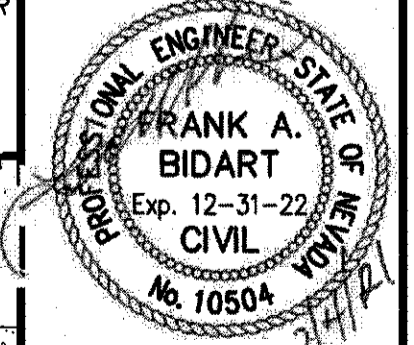
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**VICTORIAN AVE. INFRASTRUCTURE  
 IMPROVEMENTS SECTION 4  
 CIVIL SITE PLAN**

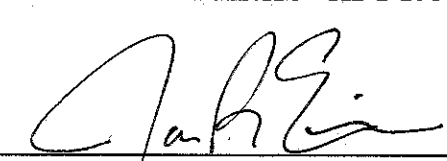
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 WASHOE  
 SPARKS

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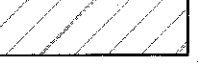
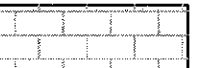
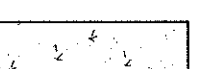

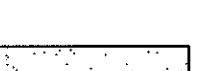

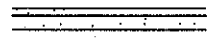
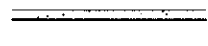

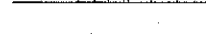


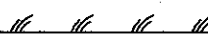

**odyssey**  
 ENGINEERING  
 INCORPORATED



SCALE  
 HORIZ. 1" = 10'  
 VERT. -  
 JOB NO. 4273  
 SHEET 4 OF 15

**CITY OF SPARKS APPROVAL:**  
  
 JON R. ERICSON, P.E., P.T.O.E.  
 CITY ENGINEER  
 DATE: 2/5/21

**LEGEND:**

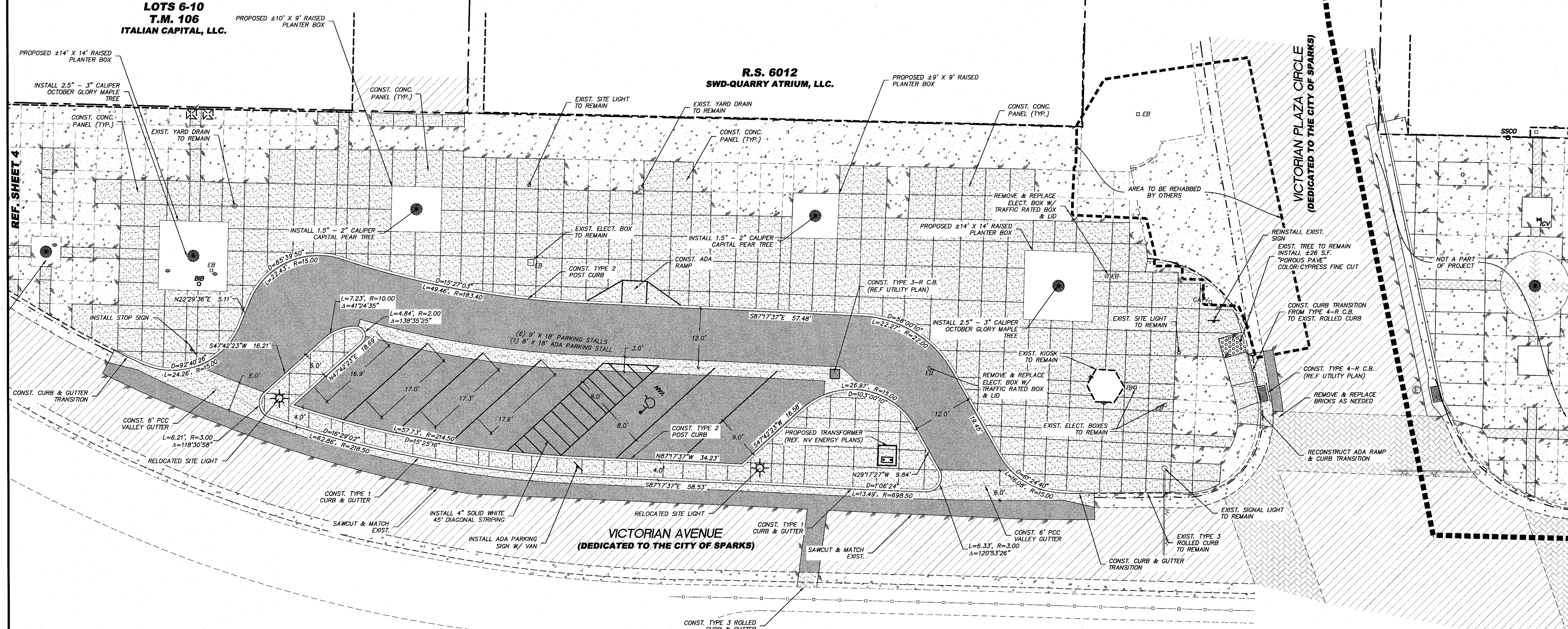
-  EXISTING ASPHALT PAVING
-  EXISTING BRICKS
-  EXIST. CONCRETE
-  PROPOSED ASPHALT PAVING  
4" AC W/ 6" TYPE 2 CLASS B AGG.  
BASE AT 95% RELATIVE COMPACTION
-  PROPOSED CONCRETE  
4" P.C.C. (4000 p.s.i. W/ FIBERMESH  
AND 5%-7% AIR) ON 4" TYPE 2 CLASS B  
AGG. BASE AT 95% RELATIVE COMPACTION  
COLOR: SEQUOIA SAND
-  POROUS PAVE  
2" "POROUS PAVE" PAVEMENT W/ 4" TYPE 2  
CLASS B AGG. BASE AT 95% RELATIVE  
COMPACTION  
COLOR: CYPRESS FINE CUT
-  CURB AND GUTTER  
(DASHED IF EXISTING)
-  POST CURB  
(DASHED IF EXISTING)
-  MANHOLE (DASHED IF EXISTING)
-  TYPE 4-R CATCH BASIN  
(DASHED IF EXISTING)
-  TYPE 3 CATCH BASIN  
(DASHED IF EXISTING)
-  NYOPLAST YARD DRAIN  
(DASHED IF EXISTING)
-  SITE LIGHT  
(DASHED IF EXISTING)
-  SAWCUT LINE

**LOTS 6-10  
T.M. 106  
ITALIAN CAPITAL, LLC.**

**R.S. 6012  
SWD-QUARRY ATRIUM, LLC.**

**VICTORIAN AVENUE  
(DEDICATED TO THE CITY OF SPARKS)**

**VICTORIAN AVENUE  
(DEDICATED TO THE CITY OF SPARKS)**



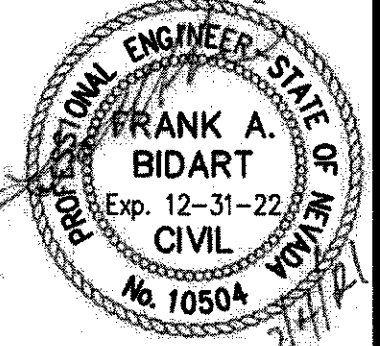
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DATE: FEB 4, 2021  
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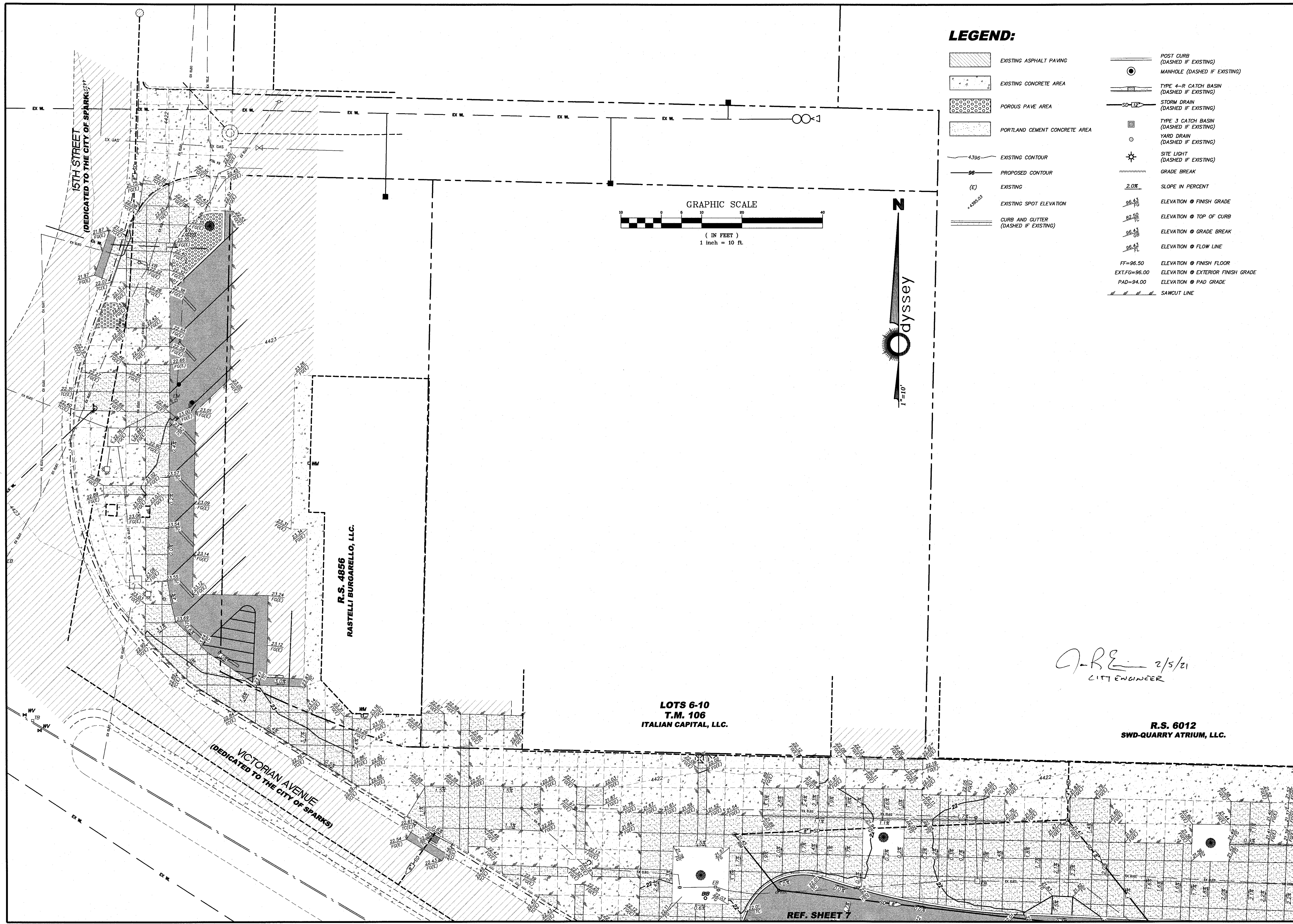
**VICTORIAN AVE. INFRASTRUCTURE  
IMPROVEMENTS SECTION 4  
CIVIL SITE PLAN**

885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-3329  
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**odyssey**  
 ENGINEERING  
 INCORPORATED

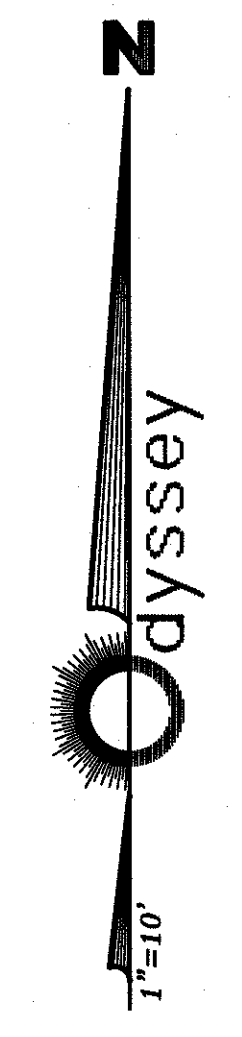
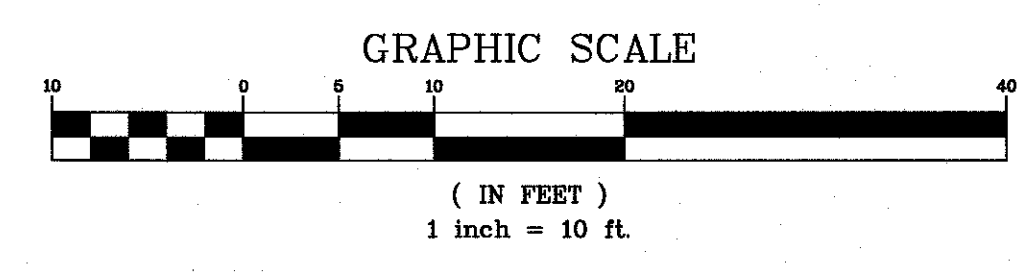


SCALE  
 HORIZ. 1"=10'  
 VERT. -  
 JOB NO. 4273  
 SHEET 5 OF 15



**LEGEND:**

- EXISTING ASPHALT PAVING
- EXISTING CONCRETE AREA
- POROUS PAVE AREA
- PORTLAND CEMENT CONCRETE AREA
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING
- EXISTING SPOT ELEVATION
- CURB AND GUTTER (DASHED IF EXISTING)
- POST CURB (DASHED IF EXISTING)
- MANHOLE (DASHED IF EXISTING)
- TYPE 4-R CATCH BASIN (DASHED IF EXISTING)
- STORM DRAIN (DASHED IF EXISTING)
- TYPE 3 CATCH BASIN (DASHED IF EXISTING)
- YARD DRAIN (DASHED IF EXISTING)
- SITE LIGHT (DASHED IF EXISTING)
- GRADE BREAK
- SLOPE IN PERCENT
- ELEVATION @ FINISH GRADE
- ELEVATION @ TOP OF CURB
- ELEVATION @ GRADE BREAK
- ELEVATION @ FLOW LINE
- ELEVATION @ FINISH FLOOR
- ELEVATION @ EXTERIOR FINISH GRADE
- ELEVATION @ PAD GRADE
- SAWCUT LINE



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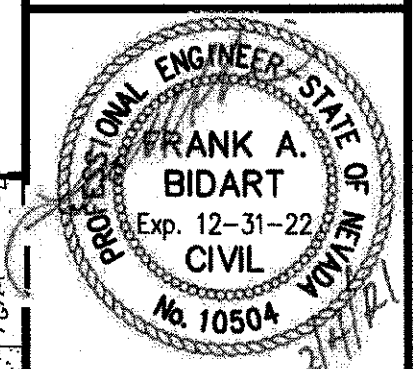
DATE: FEB 4, 2021  
 DRAWN BY: ACAD 20  
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**VICTORIAN AVE. INFRASTRUCTURE  
 IMPROVEMENTS SECTION 4  
 CIVIL GRADING PLAN**

SPARKS WASHOE NEVADA

895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-3329  
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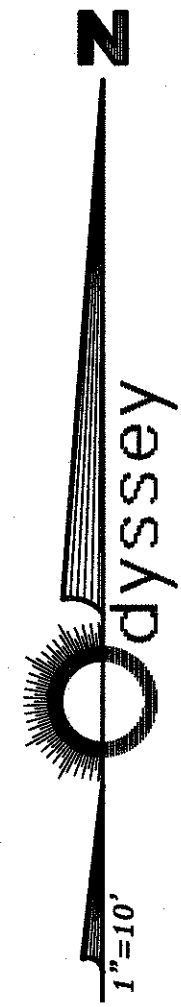
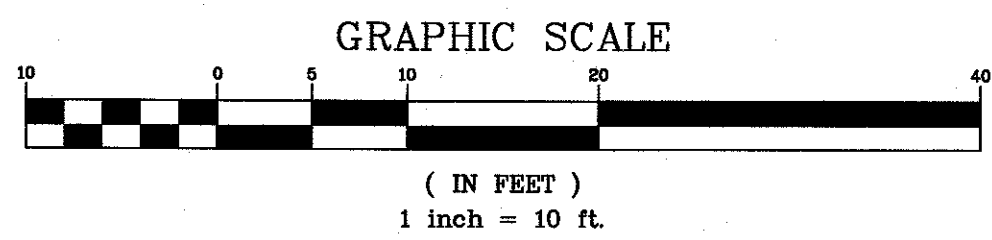
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*A-R-E* 2/5/21  
 CIVIL ENGINEER

**LOTS 6-10  
 T.M. 106  
 ITALIAN CAPITAL, LLC.**

**R.S. 6012  
 SWD-QUARRY ATRIUM, LLC.**

REF. SHEET 7

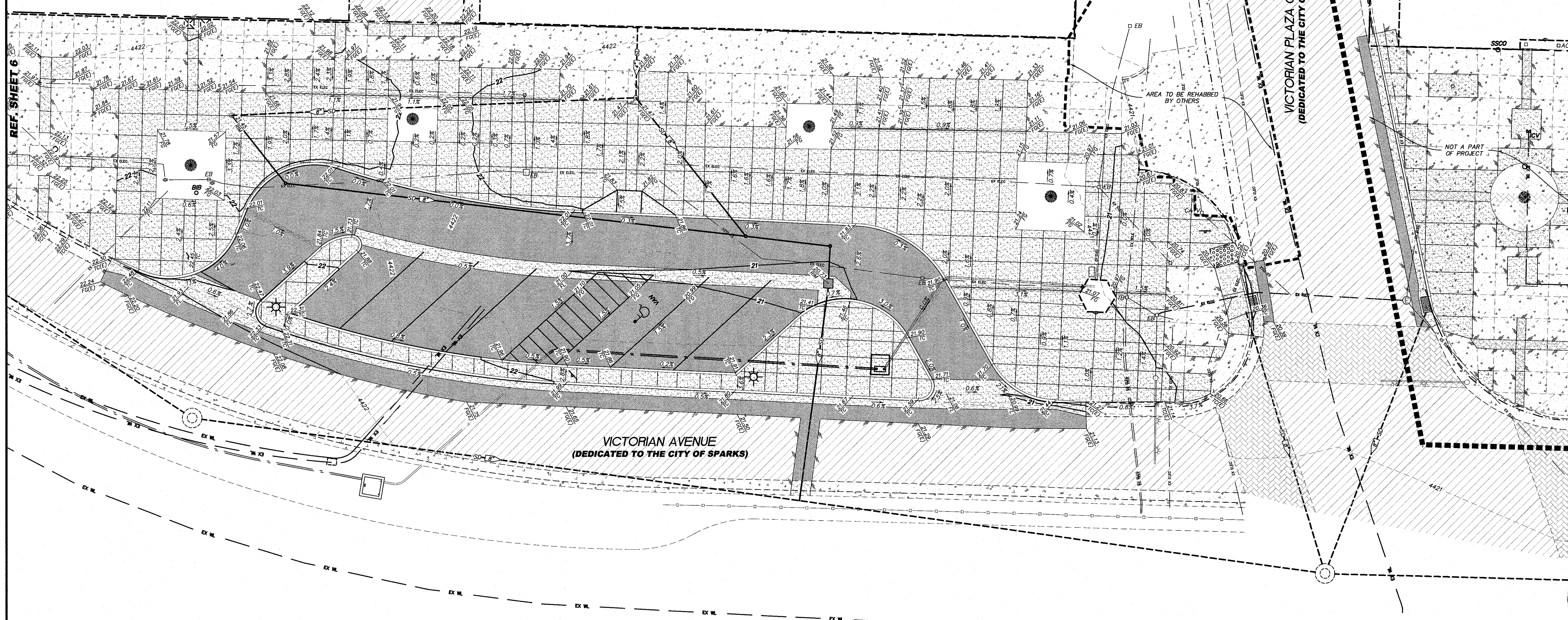


**LEGEND:**

- EXISTING ASPHALT PAVING
- EXISTING CONCRETE AREA
- POROUS PAVE AREA
- PORTLAND CEMENT CONCRETE AREA
- 4396 EXISTING CONTOUR
- 96 PROPOSED CONTOUR
- (E) EXISTING
- 4398.03 EXISTING SPOT ELEVATION
- CURB AND CUTTER (DASHED IF EXISTING)
- POST CURB (DASHED IF EXISTING)
- MANHOLE (DASHED IF EXISTING)
- TYPE 4-R CATCH BASIN (DASHED IF EXISTING)
- STORM DRAIN (DASHED IF EXISTING)
- TYPE 3 CATCH BASIN (DASHED IF EXISTING)
- YARD DRAIN (DASHED IF EXISTING)
- SITE LIGHT (DASHED IF EXISTING)
- GRADE BREAK
- 2.0% SLOPE IN PERCENT
- 96.43 ELEVATION @ FINISH GRADE
- 82.50 ELEVATION @ TOP OF CURB
- 96.43 ELEVATION @ GRADE BREAK
- 96.43 ELEVATION @ FLOW LINE
- FF=96.50 ELEVATION @ FINISH FLOOR
- EXT.FG=96.00 ELEVATION @ EXTERIOR FINISH GRADE
- PAD=94.00 ELEVATION @ PAD GRADE
- SAWCUT LINE

**LOTS 6-10  
T.M. 106  
ITALIAN CAPITAL, LLC.**

**R.S. 6012  
SWD-QUARRY ATRIUM, LLC.**



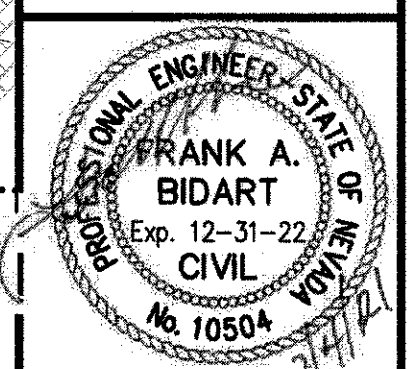
REV.	DATE	DESCRIPTION	BY	APP'D

**VICTORIAN AVE. INFRASTRUCTURE  
IMPROVEMENTS SECTION 4  
CIVIL GRADING PLAN**

SPARKS WASHOE NEVADA

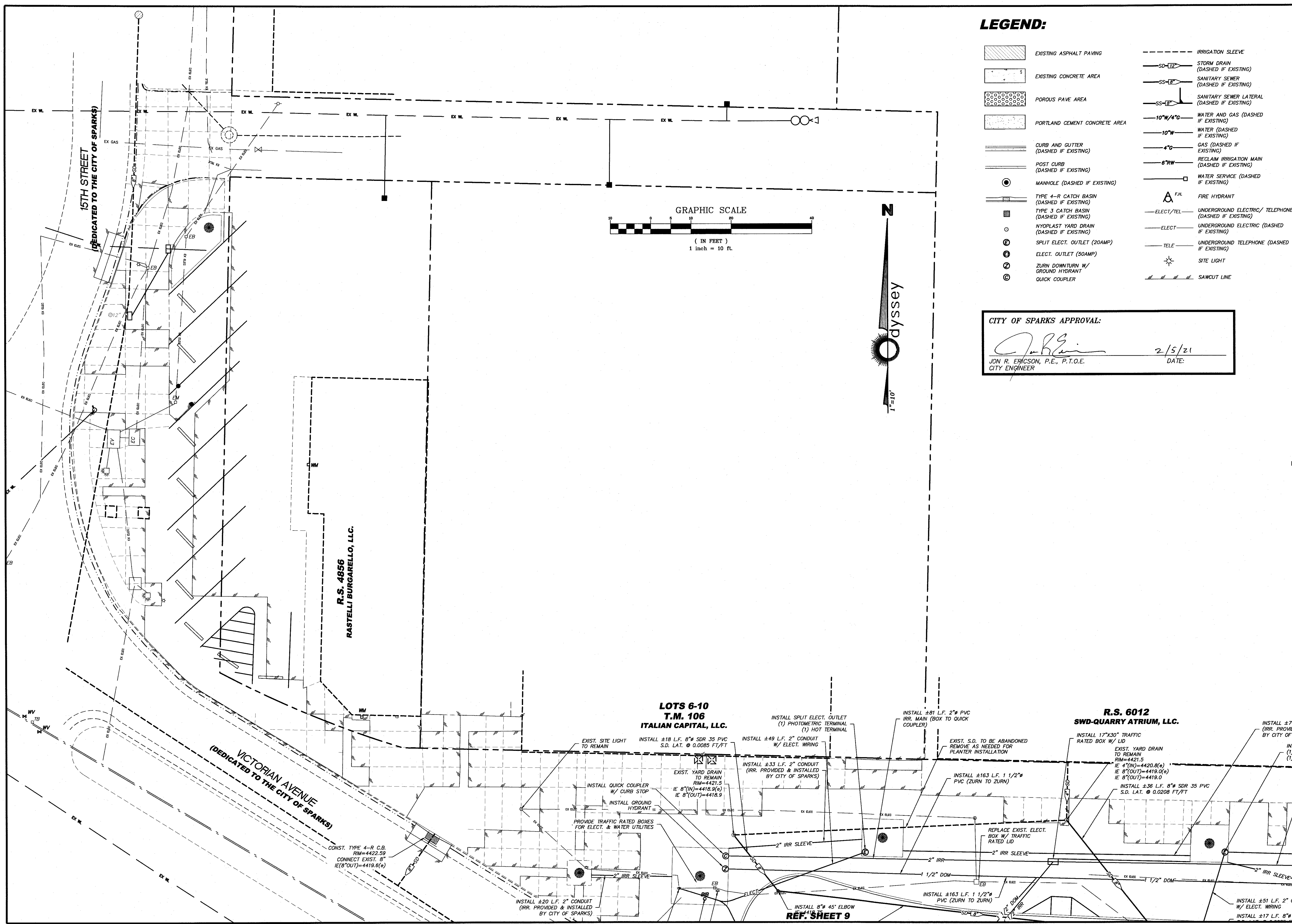
895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
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ENGINEERING  
INCORPORATED



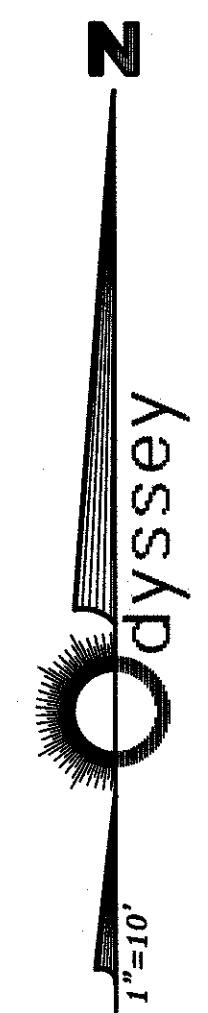
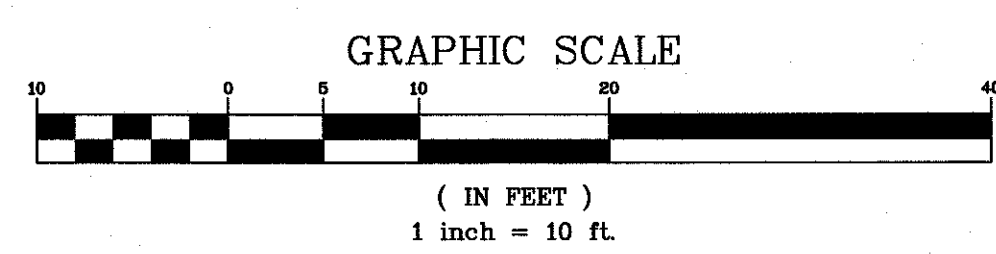
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JOB NO.	4273
SHEET	7
OF	15

*J. RE* 2/5/21  
CITY ENGINEER



**LEGEND:**

- EXISTING ASPHALT PAVING
- EXISTING CONCRETE AREA
- POROUS PAVE AREA
- PORTLAND CEMENT CONCRETE AREA
- CURB AND GUTTER (DASHED IF EXISTING)
- POST CURB (DASHED IF EXISTING)
- MANHOLE (DASHED IF EXISTING)
- TYPE 4-R CATCH BASIN (DASHED IF EXISTING)
- TYPE 3 CATCH BASIN (DASHED IF EXISTING)
- NYOPLAST YARD DRAIN (DASHED IF EXISTING)
- SPLIT ELECT. OUTLET (20AMP)
- ELECT. OUTLET (50AMP)
- ZURN DOWNTURN W/ GROUND HYDRANT
- QUICK COUPLER
- IRRIGATION SLEEVE
- STORM DRAIN (DASHED IF EXISTING)
- SANITARY SEWER (DASHED IF EXISTING)
- SANITARY SEWER LATERAL (DASHED IF EXISTING)
- W/4\"/> C symbol"/> WATER AND GAS (DASHED IF EXISTING)
- W symbol"/> WATER (DASHED IF EXISTING)
- C symbol"/> GAS (DASHED IF EXISTING)
- RW symbol"/> RECLAIM IRRIGATION MAIN (DASHED IF EXISTING)
- WATER SERVICE (DASHED IF EXISTING)
- F.H. FIRE HYDRANT
- UNDERGROUND ELECTRIC/ TELEPHONE (DASHED IF EXISTING)
- UNDERGROUND ELECTRIC (DASHED IF EXISTING)
- UNDERGROUND TELEPHONE (DASHED IF EXISTING)
- SITE LIGHT
- SAWCUT LINE



CITY OF SPARKS APPROVAL:

*Jon R. Ericson* 2/5/21  
 JON R. ERICSON, P.E., P.T.O.E. DATE:  
 CITY ENGINEER

REV.	DATE	DESCRIPTION	BY	APP'D

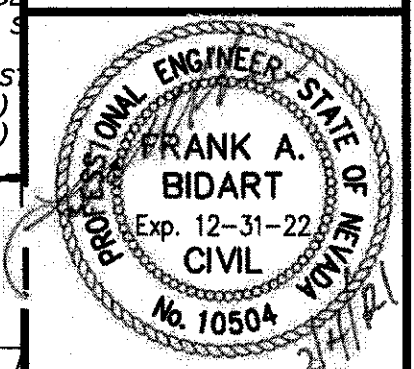
DATE: FEB 4, 2021  
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VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 CIVIL UTILITY PLAN

SPARKS WASHOE NEVADA

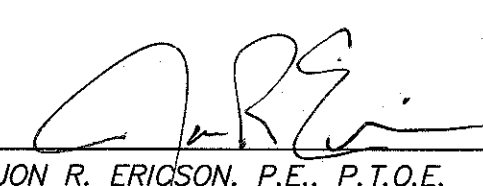
895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-5329  
 ODYSSEYRENO.COM

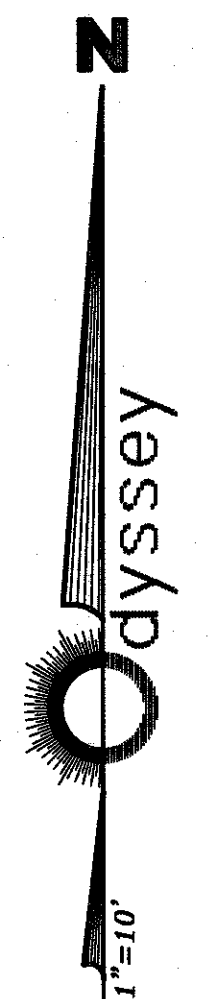
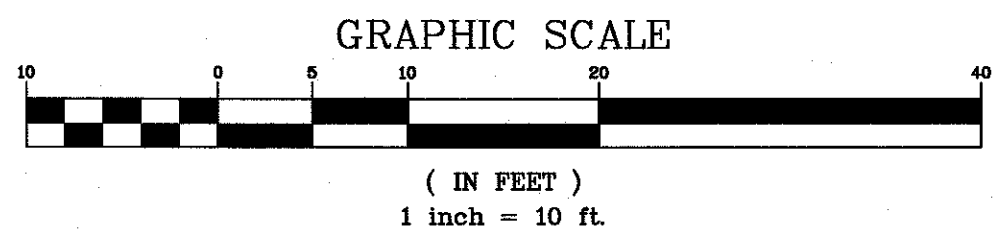
**Odyssey** ENGINEERING INCORPORATED



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 HORIZ. 1"=10'  
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 JOB NO. 4273  
 SHEET 8 OF 15

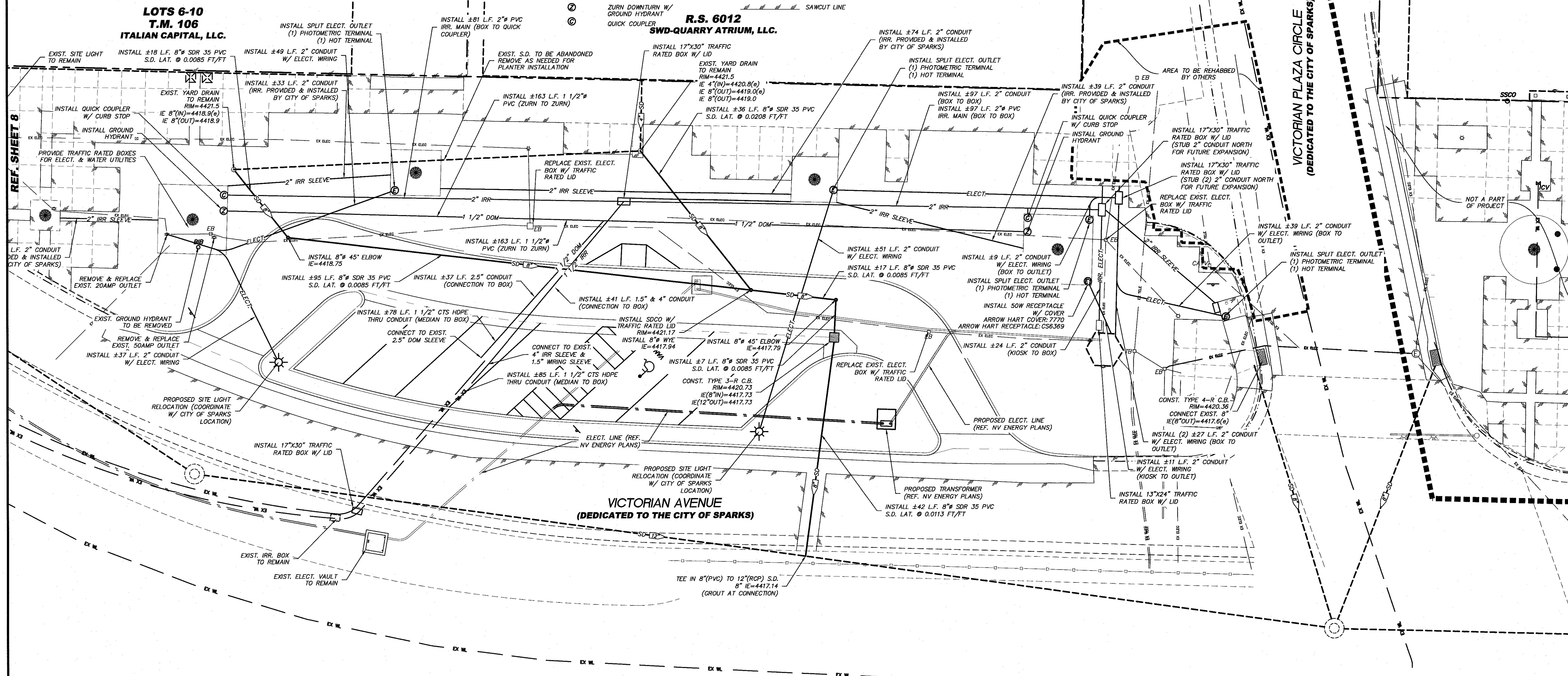


CITY OF SPARKS APPROVAL:  
  
 JON R. ERICSON, P.E., P.T.O.E.  
 CITY ENGINEER  
 DATE: 2/5/21



- LEGEND:**
- EXISTING ASPHALT PAVING
  - EXISTING CONCRETE AREA
  - POROUS PAVE AREA
  - PORTLAND CEMENT CONCRETE AREA
  - CURB AND GUTTER (DASHED IF EXISTING)
  - POST CURB (DASHED IF EXISTING)
  - MANHOLE (DASHED IF EXISTING)
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  - TYPE 3 CATCH BASIN (DASHED IF EXISTING)
  - NYOPLAST YARD DRAIN (DASHED IF EXISTING)
  - SPLIT ELECT. OUTLET (20AMP)
  - ELECT. OUTLET (50AMP)
  - ZURN DOWNTURN W/ GROUND HYDRANT
  - QUICK COUPLER
  - IRRIGATION SLEEVE
  - STORM DRAIN (DASHED IF EXISTING)
  - SANITARY SEWER (DASHED IF EXISTING)
  - SANITARY SEWER LATERAL (DASHED IF EXISTING)
  -

- 
- 
- 
- WATER SERVICE (DASHED IF EXISTING)
- FIRE HYDRANT
- UNDERGROUND ELECTRIC/ TELEPHONE (DASHED IF EXISTING)
- UNDERGROUND ELECTRIC (DASHED IF EXISTING)
- UNDERGROUND TELEPHONE (DASHED IF EXISTING)
- SITE LIGHT
- SAWCUT LINE



REV.	DATE	DESCRIPTION	BY	APP'D

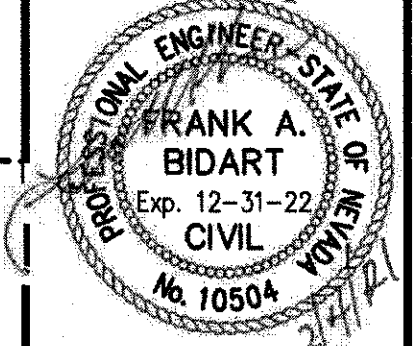
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**VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 CIVIL UTILITY PLAN**

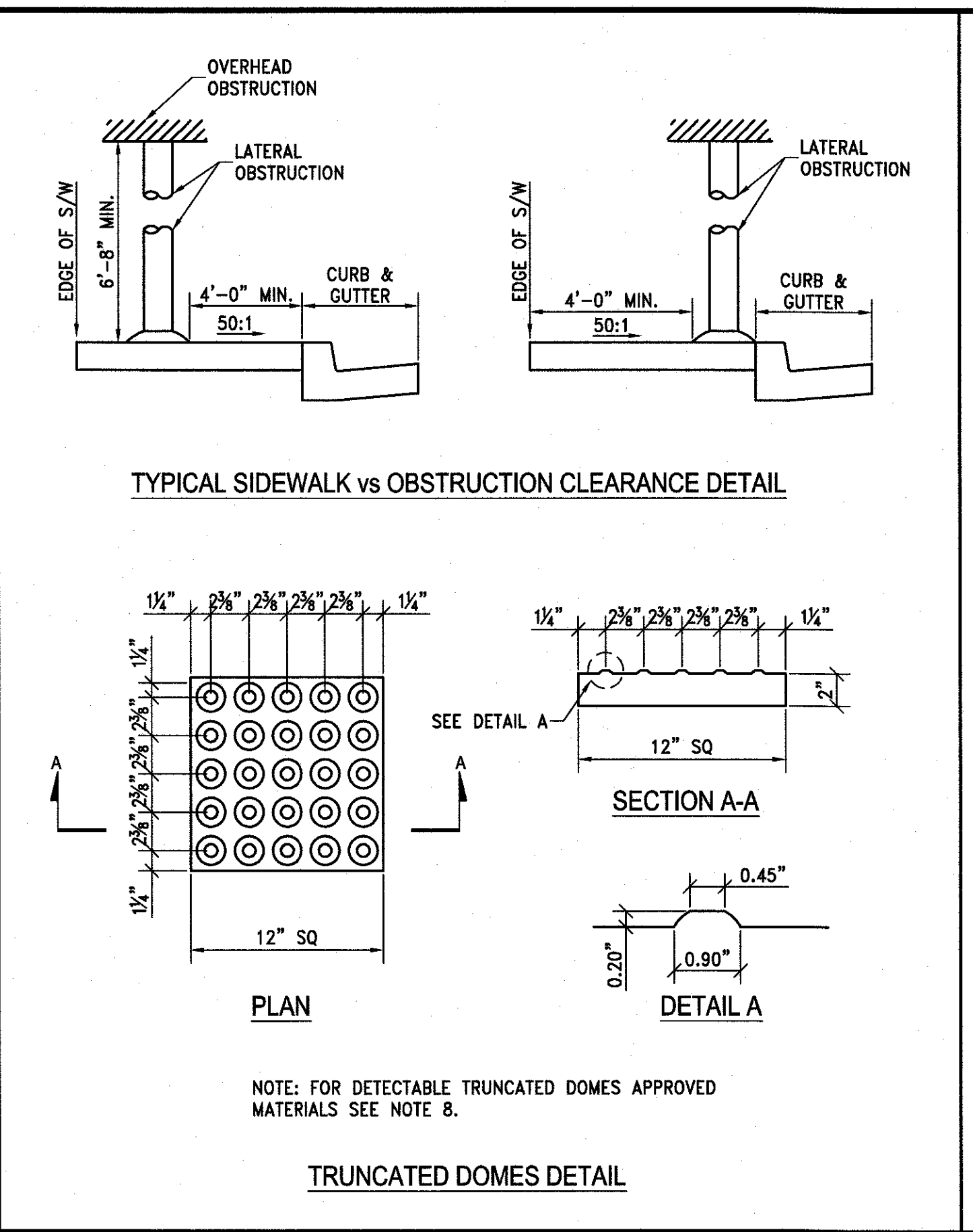
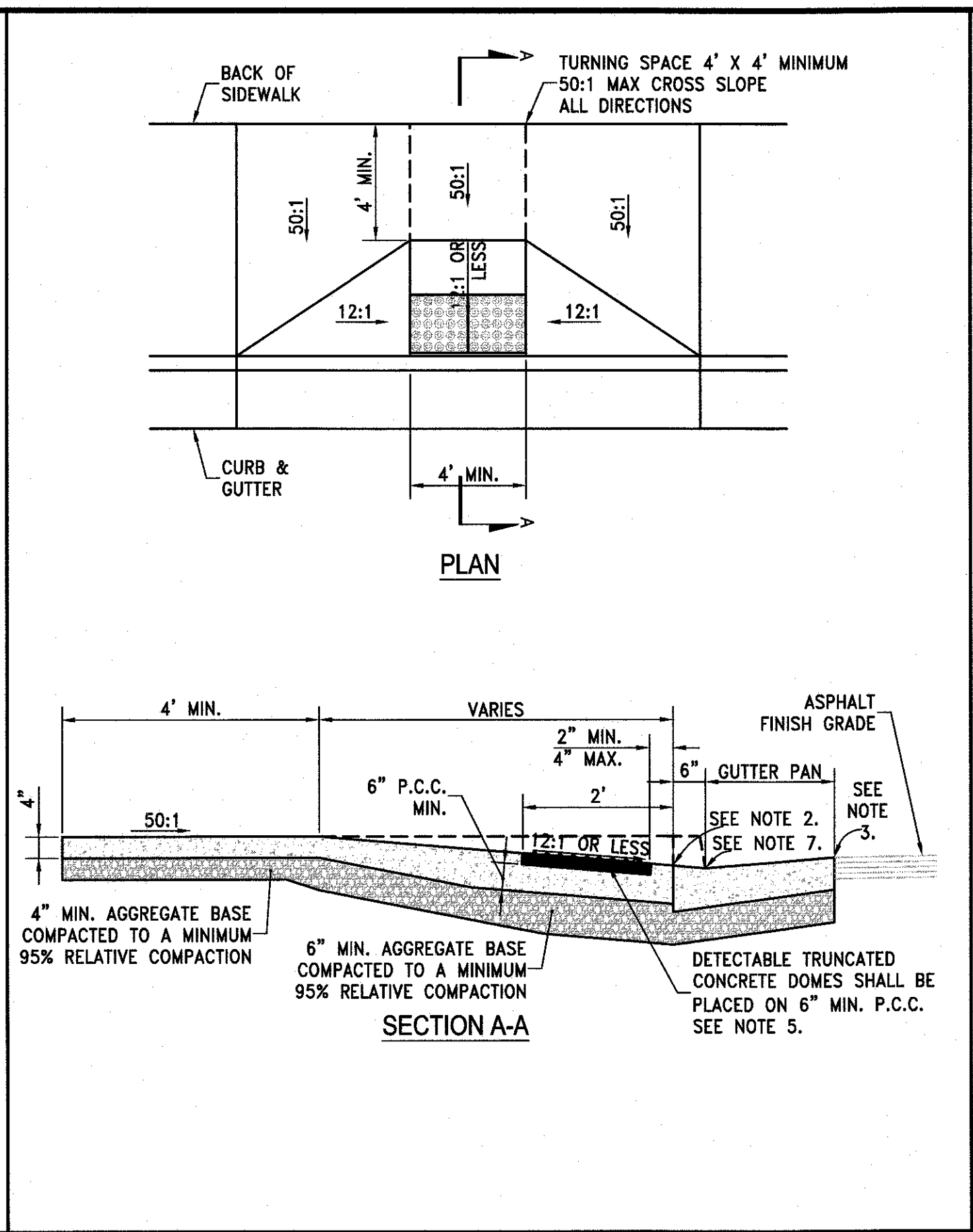
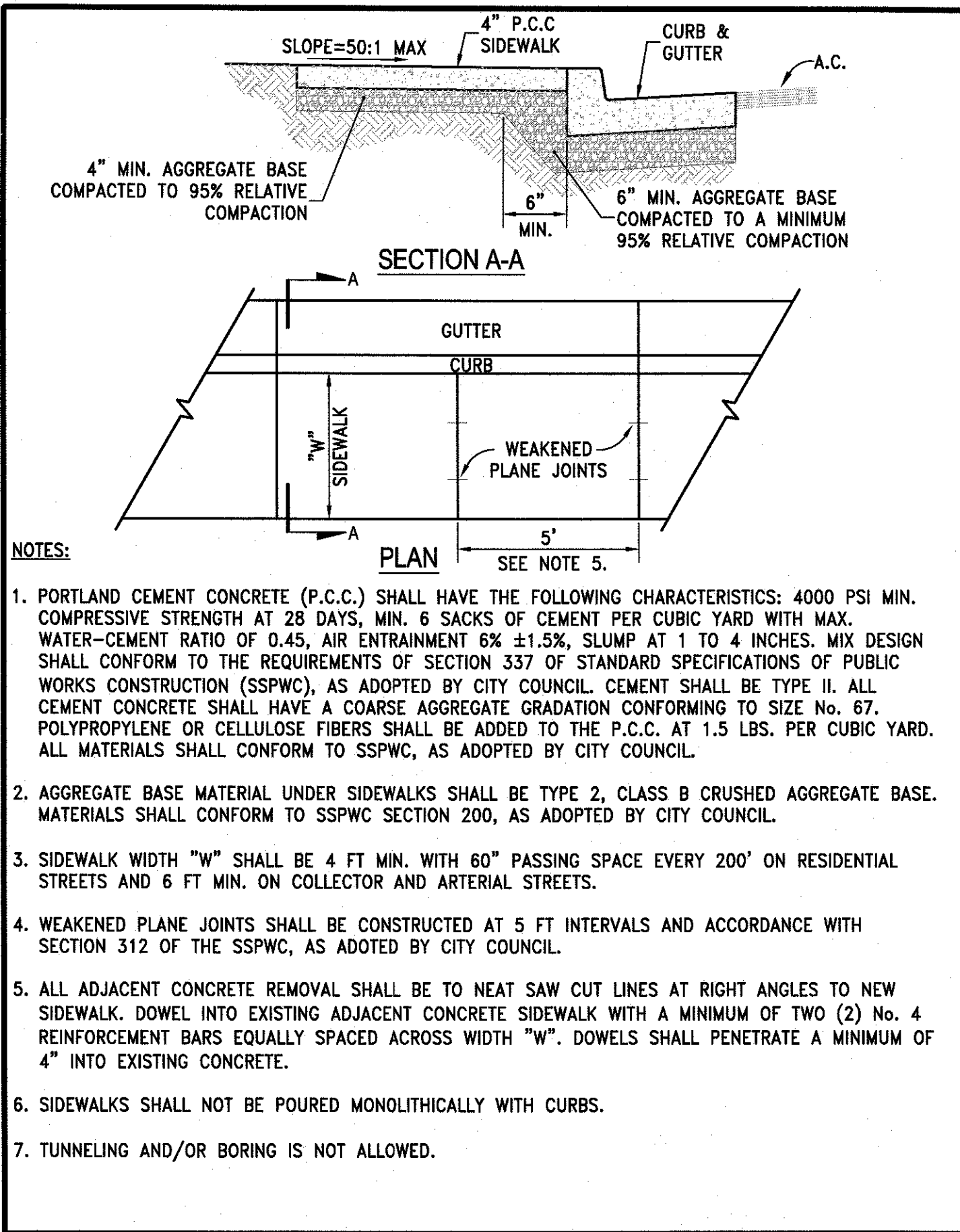
SPARKS NEVADA  
 WASHOE

895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-3329  
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**Odyssey ENGINEERING INCORPORATED**



SCALE  
 HORIZ. 1"=10'  
 VERT. -  
 JOB NO. 4273  
 SHEET 9 OF 15



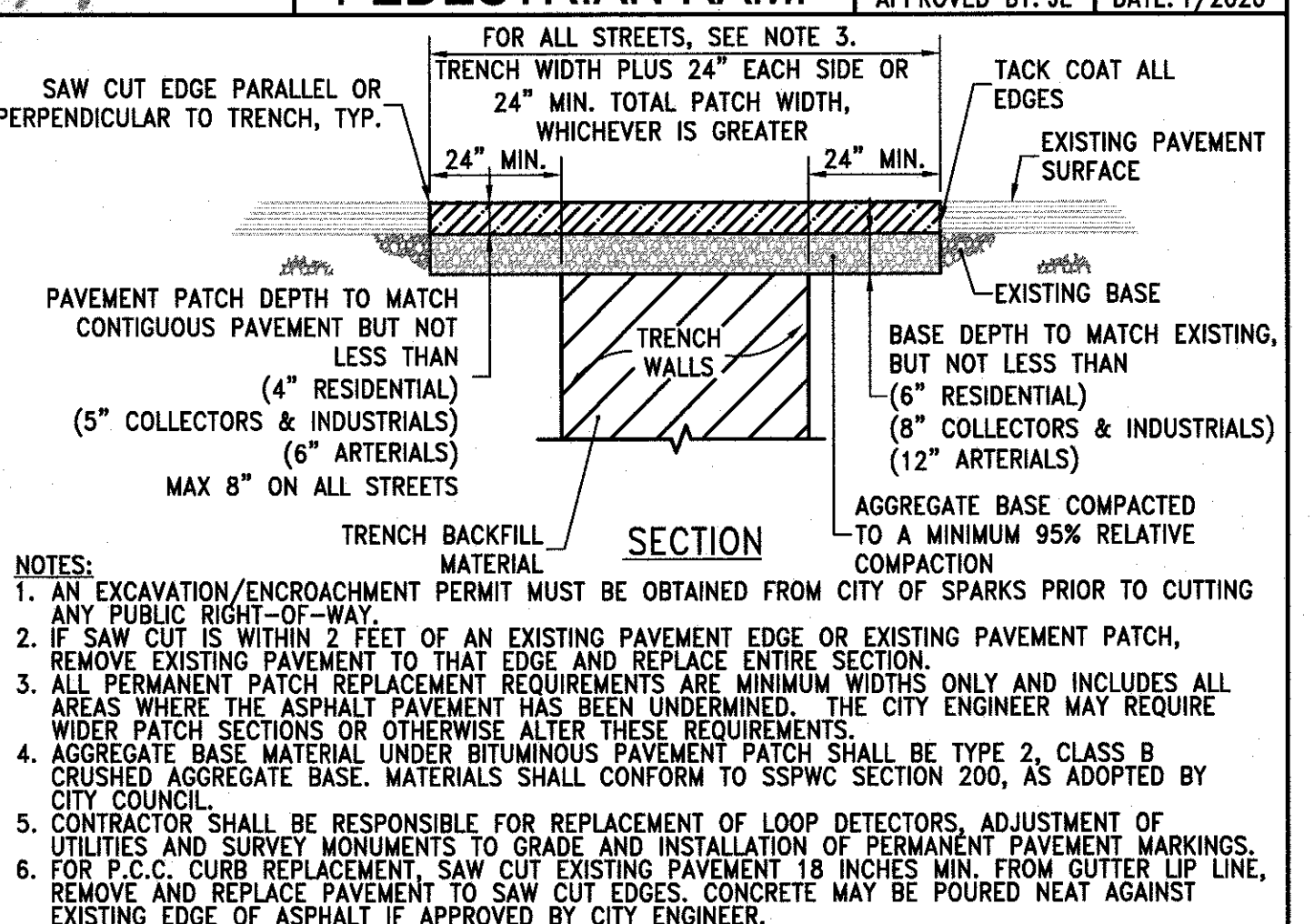
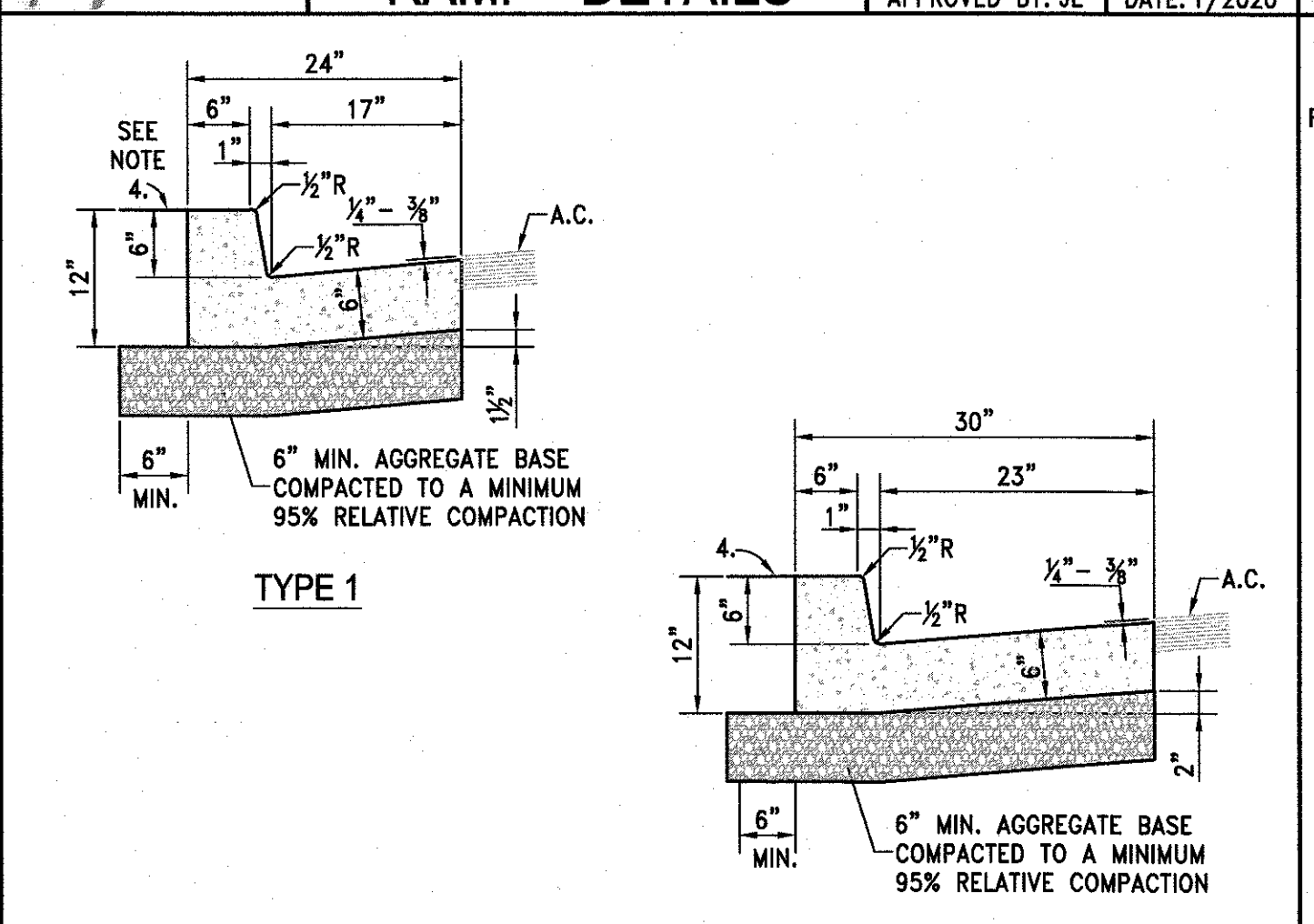
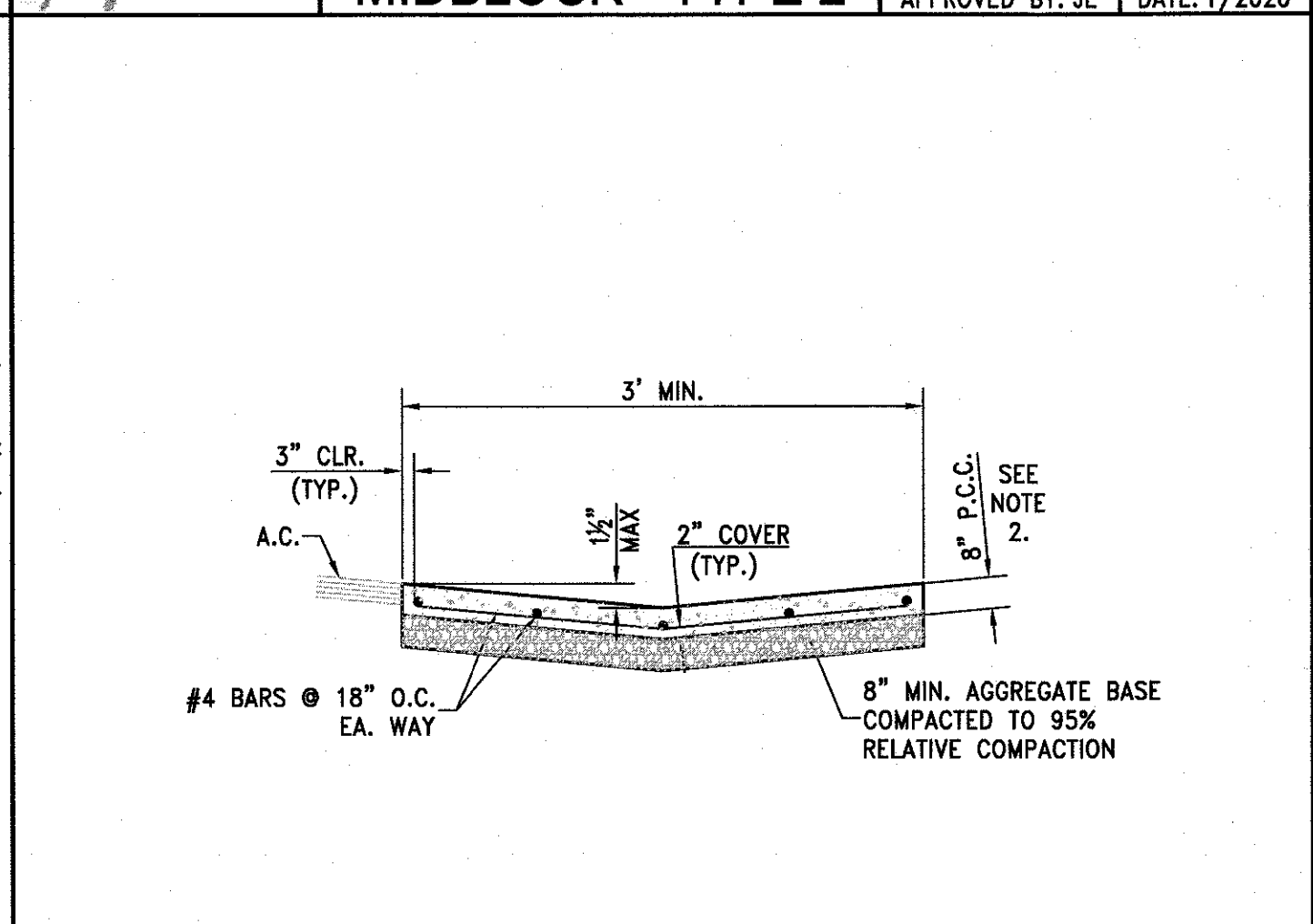
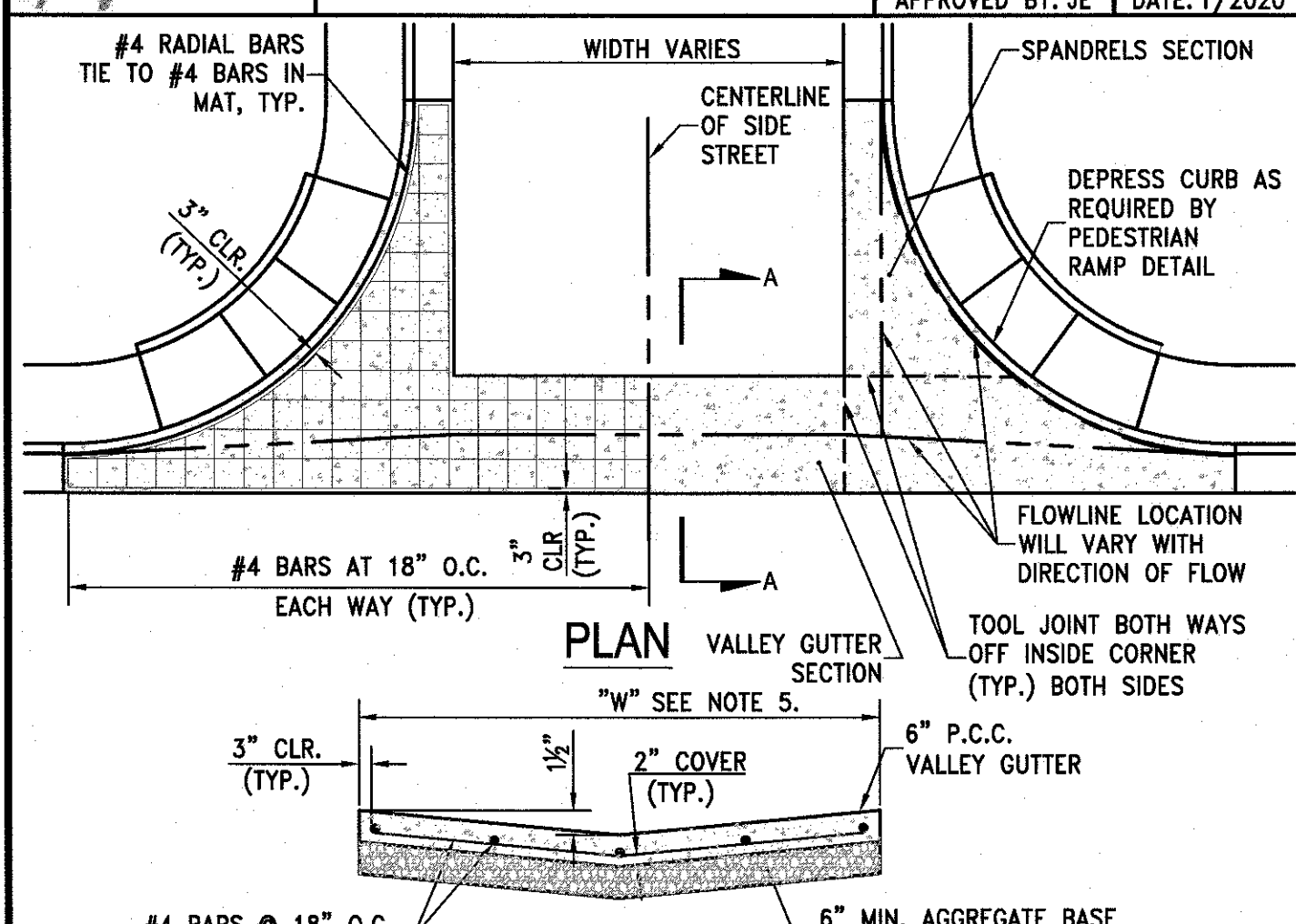
- STORM DRAIN INLETS OR SIMILAR ACCESSES SHALL NOT BE LOCATED IN THE AREA AT THE BASE OF THE CURB RAMP OR LANDING AREA. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, PULL BOXES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL OF THE CITY ENGINEER.
- NO 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", 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.
<b>Sidewalk Detail</b>	<b>S-103</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>Pedestrian Ramp Midblock - Type 2</b>	<b>S-106E</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>Pedestrian Ramp - Details</b>	<b>S-106F</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>NOTES - Pedestrian Ramp</b>	<b>S-106G</b>
APPROVED BY: JE   DATE: 1/2020	



- 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.
- AGGREGATE BASE UNDER VALLEY GUTTER AND SPANDRELS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- P.C.C. VALLEY GUTTER DETAIL FOR RESIDENTIAL OR COMMERCIAL ZONES ONLY FOR OTHER APPLICATIONS AN ENGINEERED DESIGN IS REQUIRED.
- VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
- LOCAL AND COLLECTOR STREETS, "W"=6" MIN. ARTERIAL STREETS (DRIVEWAYS ONLY), "W"=10' MIN.
- VALLEY GUTTER SECTIONS (SPANDRELS) ALONG CURB & GUTTER MAY BE A MONOLITHIC POUR AS SHOWN. DOWELS MATCHING REBAR SPACING SHOWN ARE REQUIRED FROM VALLEY GUTTER SECTION TO SPANDREL SECTION IF POURED SEPARATELY.

- THIS GUTTER DESIGN IS FOR USE ON CITY STREETS UPON APPROVAL OF THE CITY ENGINEER.
- 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.
- AGGREGATE BASE MATERIAL UNDER VALLEY GUTTERS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC, 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.
- AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- 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.
- CURB & GUTTER SECTIONS SHALL BE PLACED SEPARATELY FROM SIDEWALK SECTIONS. WHEN SIDEWALK IS NOT REQUIRED DIRECTLY BEHIND THE CURB, BACKFILL TO TOP OF CURB FOR A HORIZONTAL DISTANCE OF 12" FROM BACK FACE OF CURB AND COMPACT TO 90% RELATIVE COMPACTION.
- FOR REPLACEMENT OF EXISTING CURB AND GUTTER, MATCH EXISTING TYPE.

- AN EXCAVATION/ENCROACHMENT PERMIT MUST BE OBTAINED FROM CITY OF SPARKS PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY.
- SAW CUT IS WITHIN 2 FEET OF AN EXISTING PAVEMENT EDGE OR EXISTING PAVEMENT PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- ALL PERMANENT PATCH REPLACEMENT REQUIREMENTS ARE MINIMUM WIDTHS ONLY AND INCLUDES ALL AREAS WHERE THE ASPHALT PAVEMENT HAS BEEN UNDERLAIN. THE CITY ENGINEER MAY REQUIRE WIDER PATCH SECTIONS OR OTHERWISE ALTER THESE REQUIREMENTS.
- AGGREGATE BASE MATERIAL UNDER BITUMINOUS PAVEMENT PATCH SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF LOOP DETECTORS, ADJUSTMENT OF UTILITIES AND SURVEY MONUMENTS TO GRADE AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
- FOR P.C.C. CURB REPLACEMENT, SAW CUT EXISTING PAVEMENT 18 INCHES MIN. FROM GUTTER LIP LINE, REMOVE AND REPLACE PAVEMENT TO SAW CUT EDGES. CONCRETE MAY BE POURED NEAT AGAINST EXISTING EDGE OF ASPHALT IF APPROVED BY CITY ENGINEER.
- TRANSVERSE PATCHES SHALL INCLUDE A GRIND AND OVERLAY WHEREVER THERE ARE MULTIPLE PATCHES WITHIN 30 FEET OF EACH OTHER. 2" MINIMUM FOR RESIDENTIAL, COLLECTORS & INDUSTRIALS. 3" MINIMUM FOR ARTERIALS.
- LONGITUDINAL PATCHES SHALL INCLUDE GRIND AND OVERLAY TO THE LANE LINES (BIKE, PARKING, OR TRAVEL). 2" MINIMUM FOR RESIDENTIAL, COLLECTORS & INDUSTRIALS. 3" MINIMUM FOR ARTERIALS.
- DRIVEWAY & INTERSECTION LIMITS TO BE DETERMINED BY STREET CUT COORDINATOR.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>P.C.C. Valley Gutter</b>	<b>S-107</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>Longitudinal P.C.C. Valley Gutter</b>	<b>S-108</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>P.C.C. Curb &amp; Gutter</b>	<b>S-109</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>Permanent Bituminous Pavement Patch</b>	<b>S-115</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>P.C.C. Valley Gutter</b>	<b>S-107</b>
APPROVED BY: JE   DATE: 1/2020	

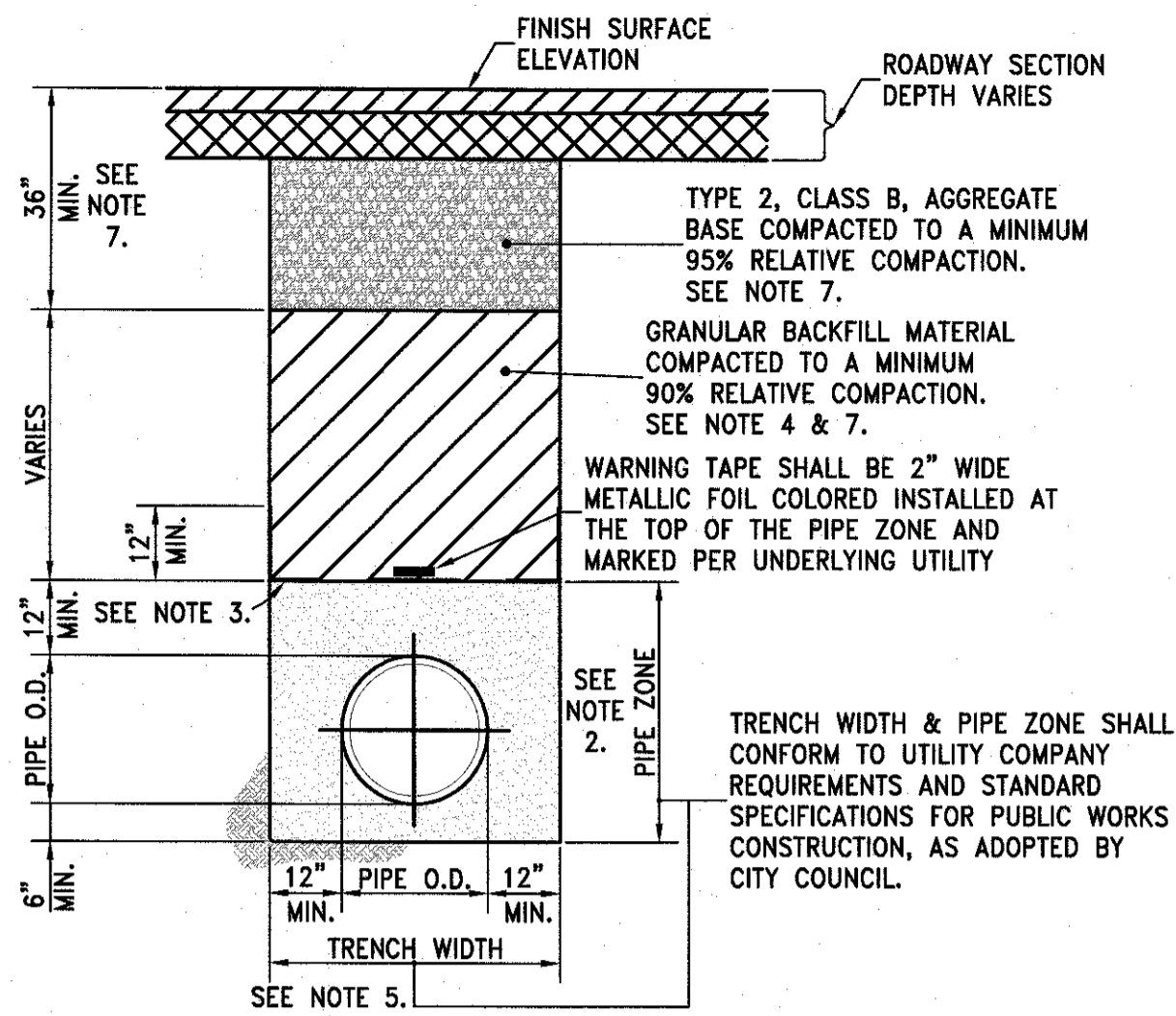
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>Longitudinal P.C.C. Valley Gutter</b>	<b>S-108</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>P.C.C. Curb &amp; Gutter</b>	<b>S-109</b>
APPROVED BY: JE   DATE: 1/2020	

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>Permanent Bituminous Pavement Patch</b>	<b>S-115</b>
APPROVED BY: JE   DATE: 1/2020	

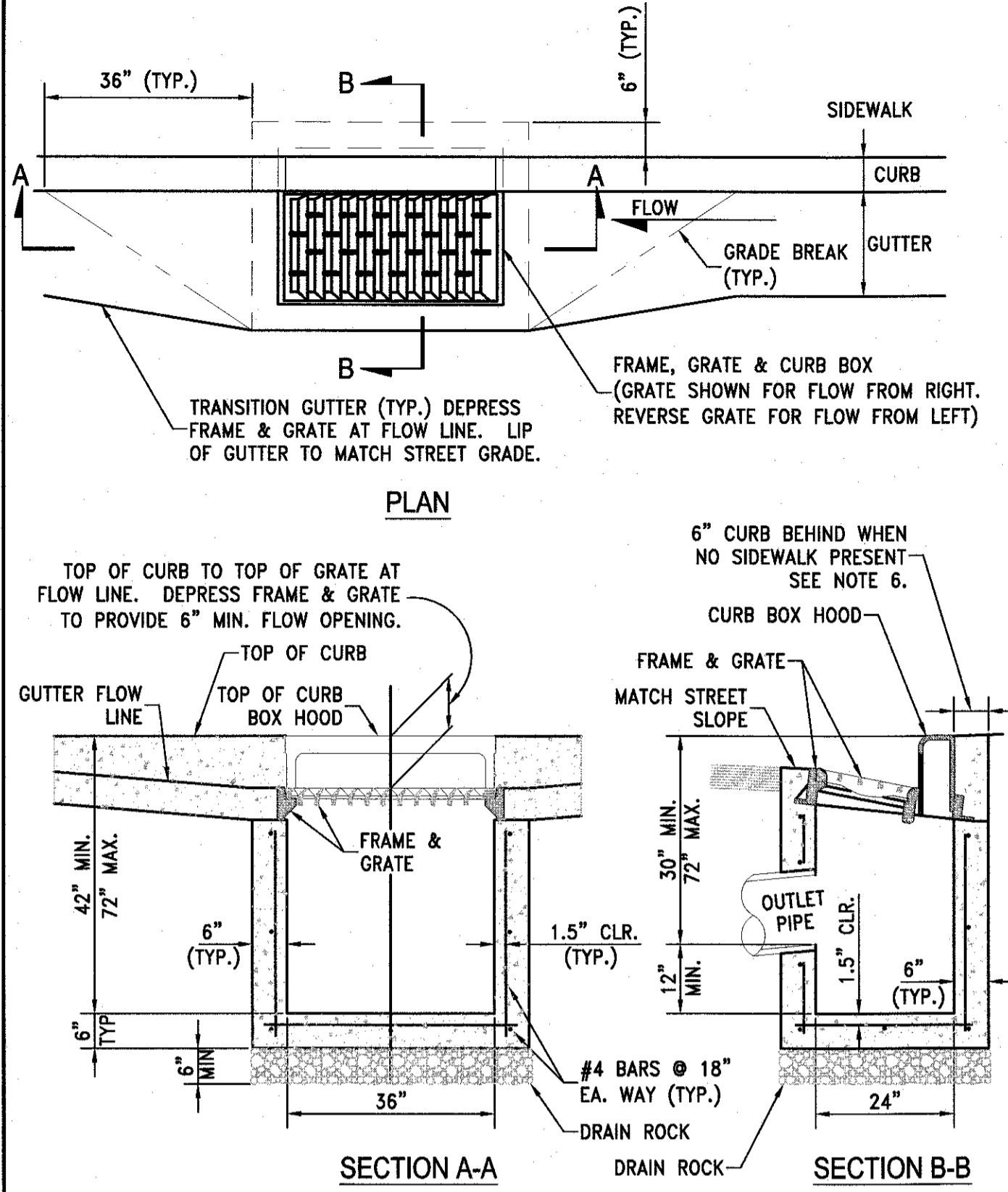
CITY OF SPARKS APPROVAL:  
  
 JON R. ERICSON, P.E., P.T.O.E. DATE: 2/5/21  
 CITY ENGINEER

DATE: FEB 4, 2021	BY: APP'D
DRAWN BY: DRACAD 20	DESCRIPTION
DESIGNED BY: TJC	DATE
CHECKED BY: FAB	REV.
VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 CIVIL DETAILS	
895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431 (775) 369-3303 FAX (775) 358-3329 ODYSSEY.TRENDO.COM	
PROFESSIONAL ENGINEER STATE OF NEVADA FRANK A. BIDART Exp. 12-31-22 No. 10504	
SCALE	SHEET
HORIZ. -	10
VERT. -	OF
JOB NO. 4273	15



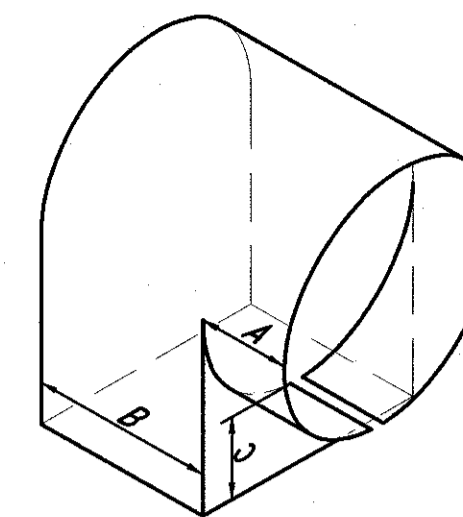
**NOTES:**

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.



**NOTES:**

1. P.C.C CURB AND GUTTER TRANSITION SHALL BE PORTLAND CEMENT CONCRETE (P.C.C.) AND SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 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" MINIMUM CLEAR COVER.
3. CONCRETE STRUCTURE MAY BE A CAST-IN-PLACE CONCRETE UNIT UPON APPROVAL OF THE CITY ENGINEER. BASE OF CAST-IN-PLACE CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
4. FRAME, GRATE AND CURB BOX HOOD ASSEMBLY SHALL BE D&L I-3519 WITH TYPE L "VANE 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.
5. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6" MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B-B).
6. WHEN SIDEWALK IS PRESENT CONCRETE BEHIND CURB BOX SHALL BE THICKENED TO THE FULL DEPTH OF THE CURB BOX. IF NO SIDEWALK IS PRESENT, POUR 6" CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM INTO BOX.
7. ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.
8. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT WITH MINIMAL GAPS.
9. CATCH BASIN SHALL NOT BE PLACED WITHIN THE RADIUS OF THE CURB UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.



DIMENSIONS			
SIZE	A	B	C
4"	3"	3"	3"
6"	4"	5"	4"
8"	4"	6.5"	4"
10"	4"	8"	4"
12"	5"	10"	4"
15"	6"	10.5"	6.5"

**NOTES:**

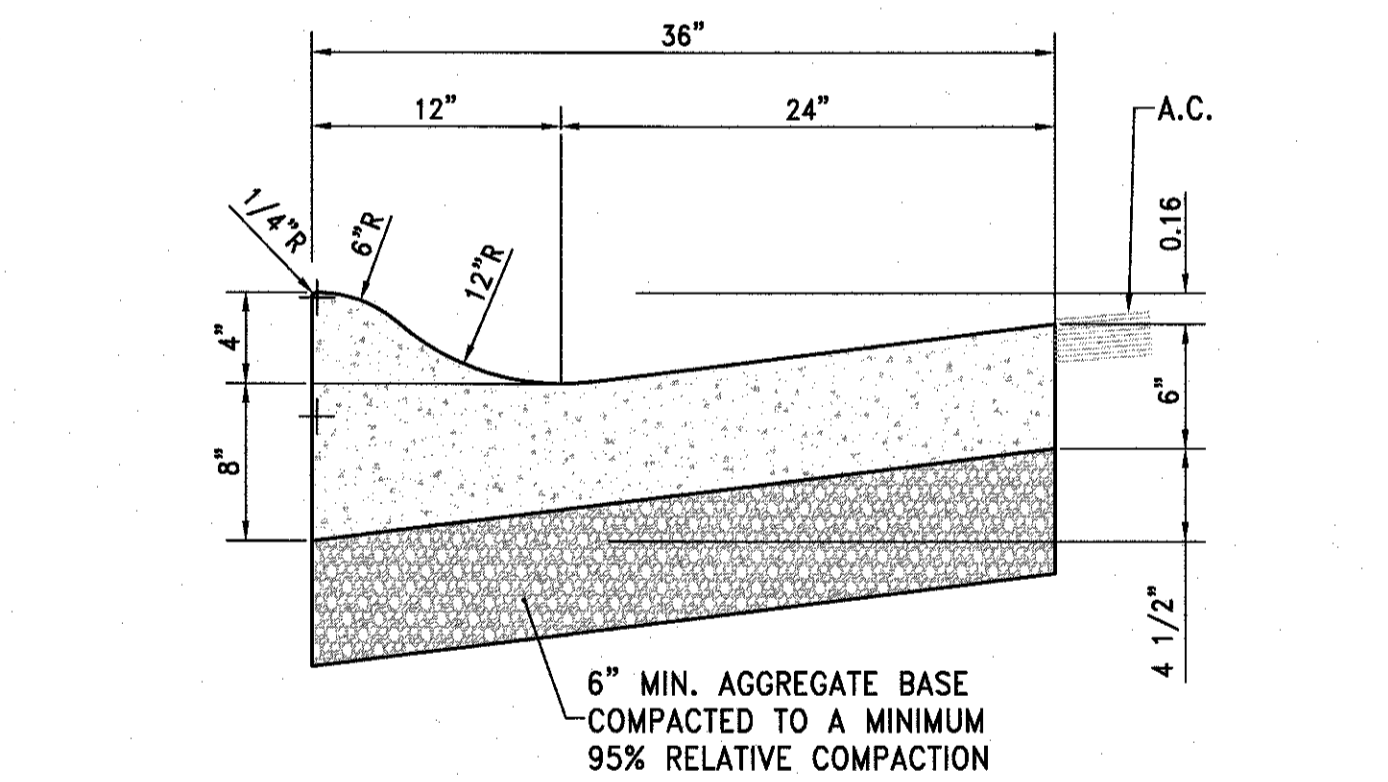
1. ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.
2. INSTALL OIL/WATER SEPARATOR WITH THE BOTTOM EDGE PARALLEL TO THE WATER SURFACE AND THE RECTANGULAR OPENING FACING DOWNWARD AND THE CIRCULAR END PLACED INSIDE THE OUTLET PIPE.

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

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

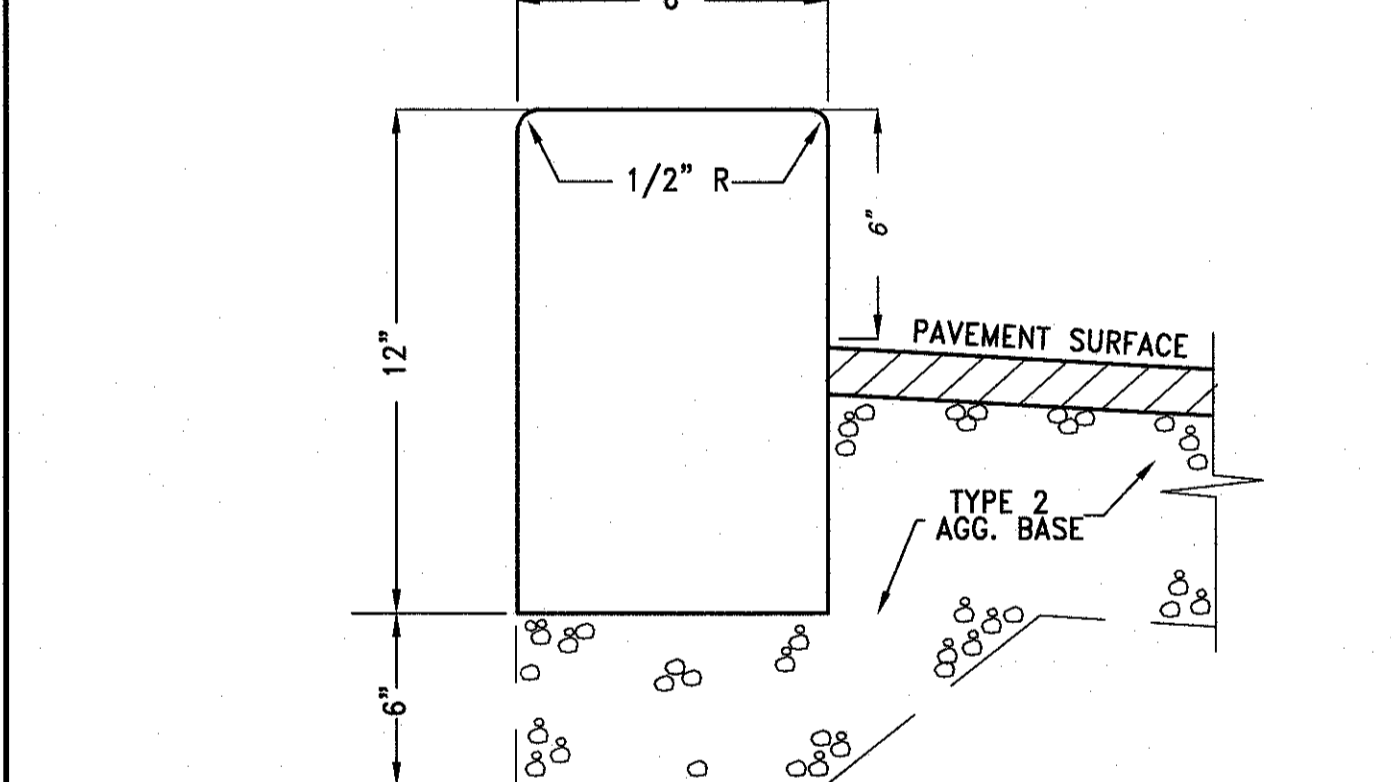
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**City of Sparks** NOTES - CATCH BASIN TYPE 4-R  
 DRAWING No. S-204B  
 APPROVED BY: JE DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  
**City of Sparks** CATCH BASIN OIL/WATER SEPARATOR  
 DRAWING No. S-208  
 APPROVED BY: JE DATE: 1/2020



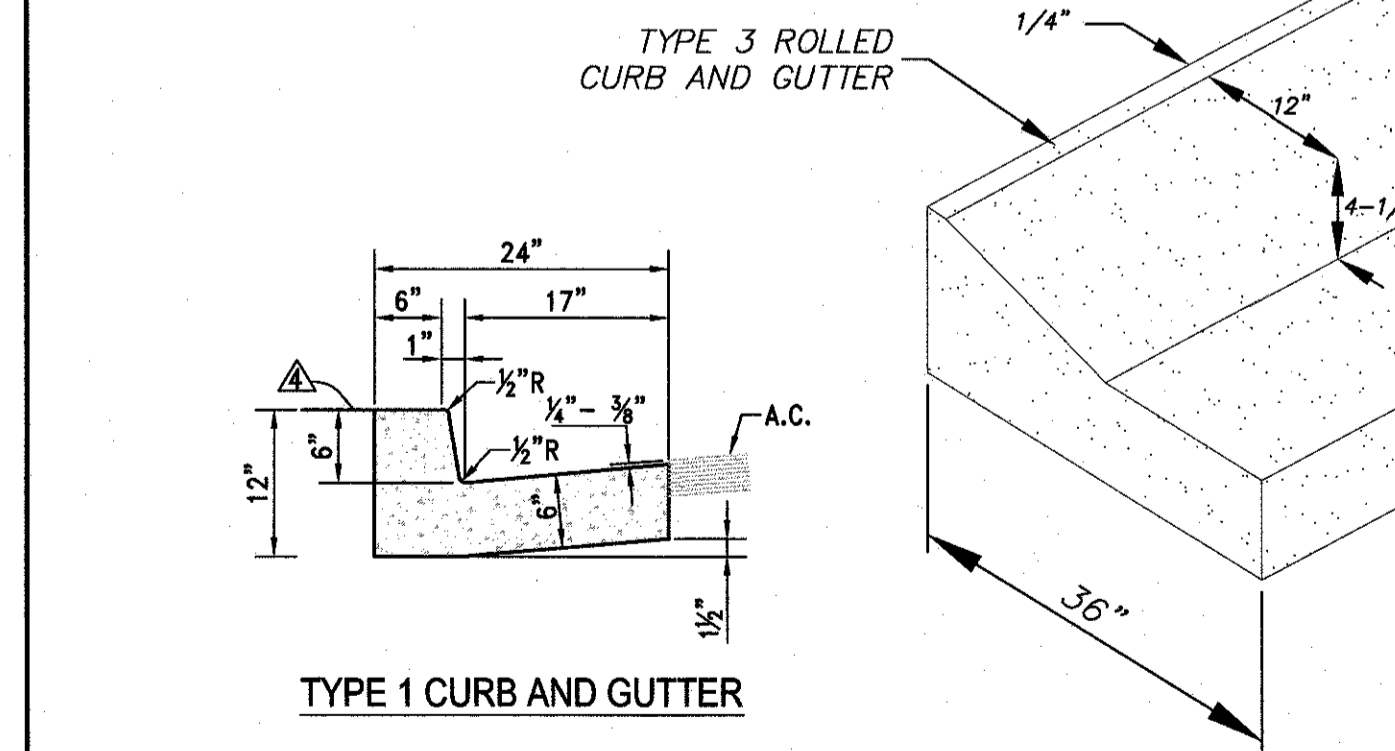
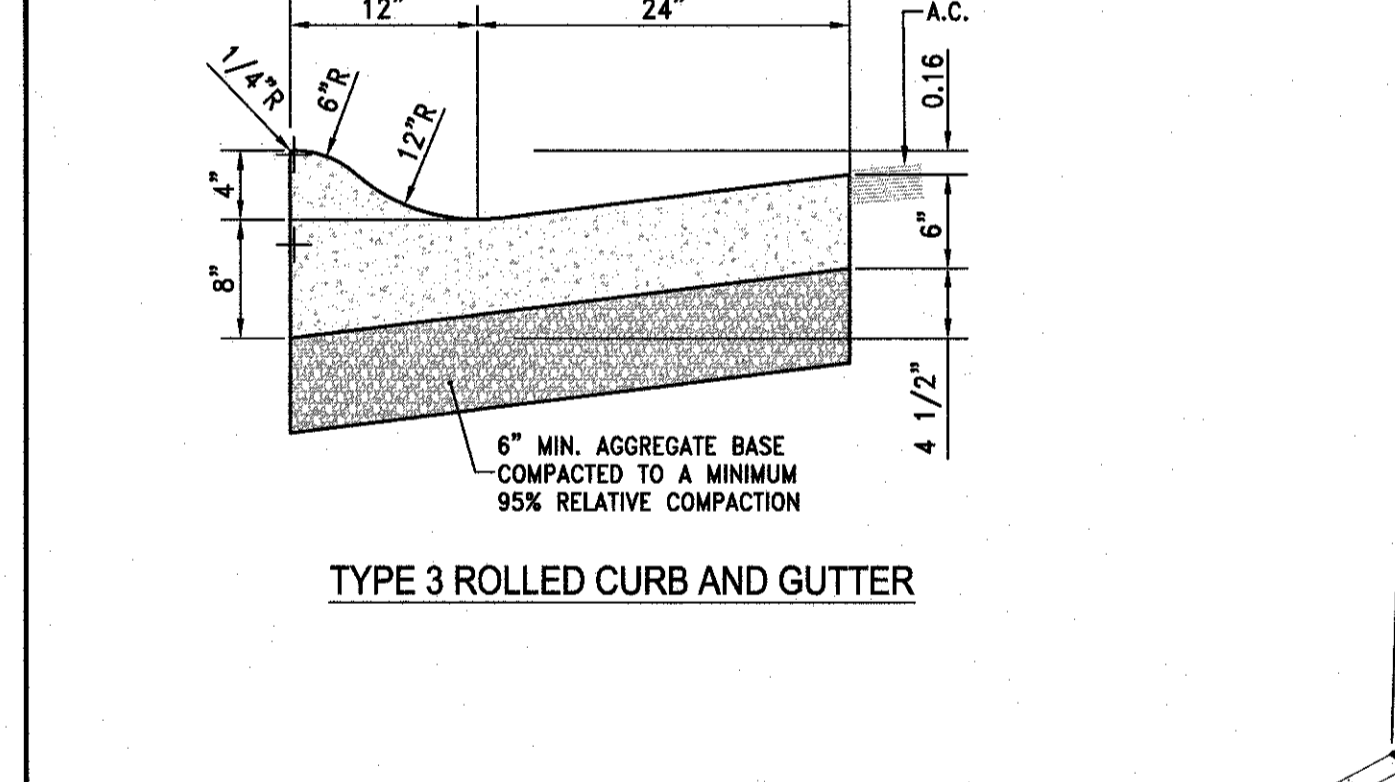
**NOTES:**

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). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. 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.
4. CURB & GUTTER SECTIONS SHALL BE PLACED SEPARATELY FROM SIDEWALK SECTIONS. WHEN SIDEWALK IS NOT REQUIRED DIRECTLY BEHIND THE CURB, BACKFILL TO TOP OF CURB FOR A HORIZONTAL DISTANCE OF 12" FROM BACK FACE OF CURB AND COMPACT TO 90% RELATIVE COMPACTION.
5. FOR REPLACEMENT OF EXISTING CURB AND GUTTER, MATCH EXISTING TYPE.



**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 A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
2. (A) ALL CONCRETE CURB/GUTTER/SIDEWALK/VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.  
 (B) EXPANSION JOINTS 1/2" WIDE SHALL BE LOCATED IN CURBS & GUTTERS @ EACH SIDE OF STRUCTURES, @ ENDS OF ALL CURB RETURNS, & ABUTTING HARDENED IN-PLACE CURB & GUTTER, EXCEPT THAT EXPANSION JOINTS SHALL NOT BE INSTALLED WITHIN 20' OF AN ISLAND NOSE. EXPANSION JOINTS SHALL BE 1/2" THICK, SHAPED TO THE CROSS SECTION OF THE CURB & GUTTER, & SHALL BE CONSTRUCTED @ RIGHT ANGLES TO THE CURB & GUTTER. JOINT FILLER MATERIAL SHALL CONFORM TO SECTION 202.10.
3. AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 AGGREGATE BASE AND BE COMPACTED TO MIN. 95% MAXIMUM DRY DENSITY (M.D.D.).



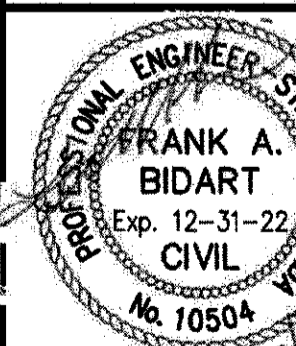
**TYPE 3 ROLLED CURB AND GUTTER TO TYPE 1 CURB AND GUTTER TRANSITION**

**TYPE 3 ROLL CURB & GUTTER**

**TYPE 2 P.C.C. POST CURB**

VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 CIVIL DETAILS

895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 369-3303 FAX (775) 356-5329  
 ODYSSEYENGINEERING.COM  
**odyssey ENGINEERING INCORPORATED**

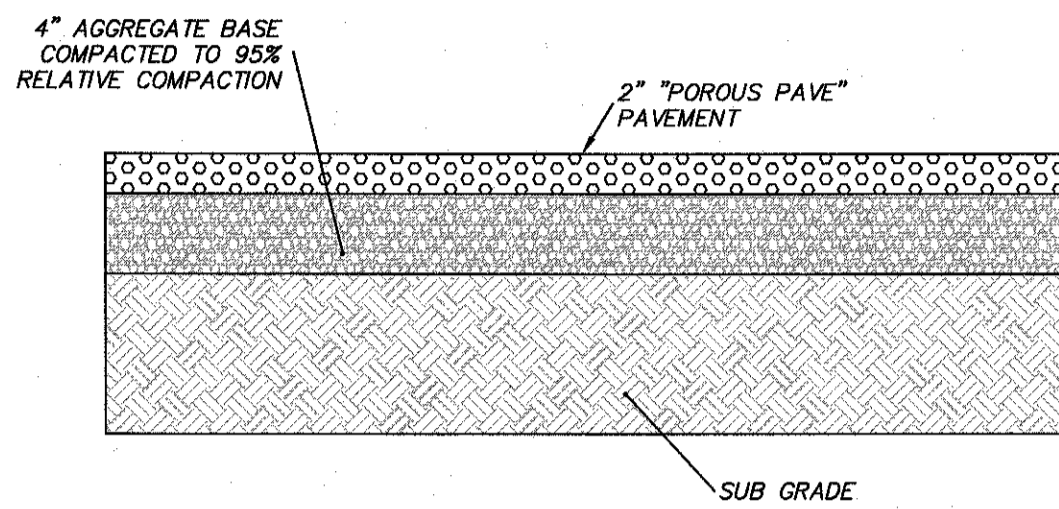


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 JOB NO. 4273

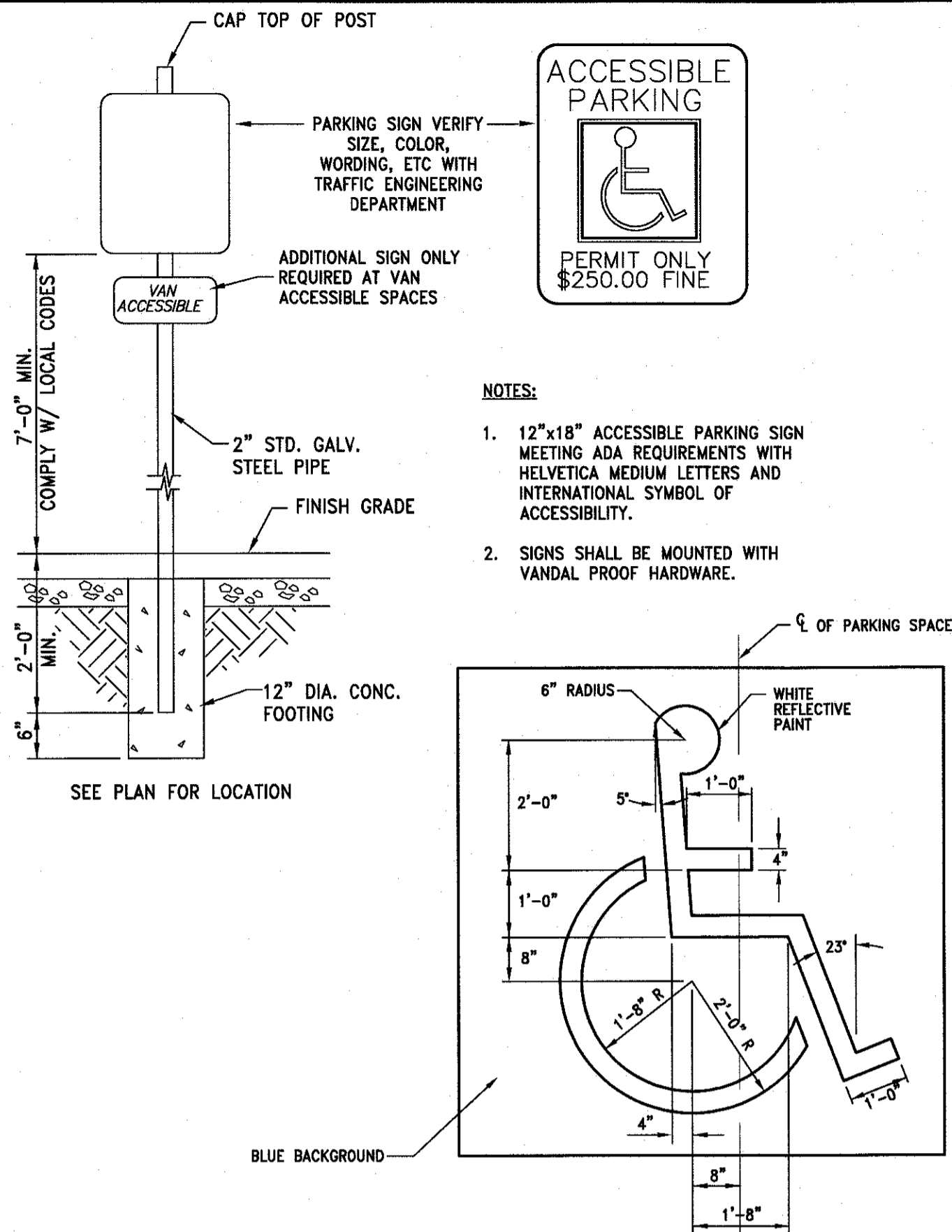
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CITY OF SPARKS APPROVAL:

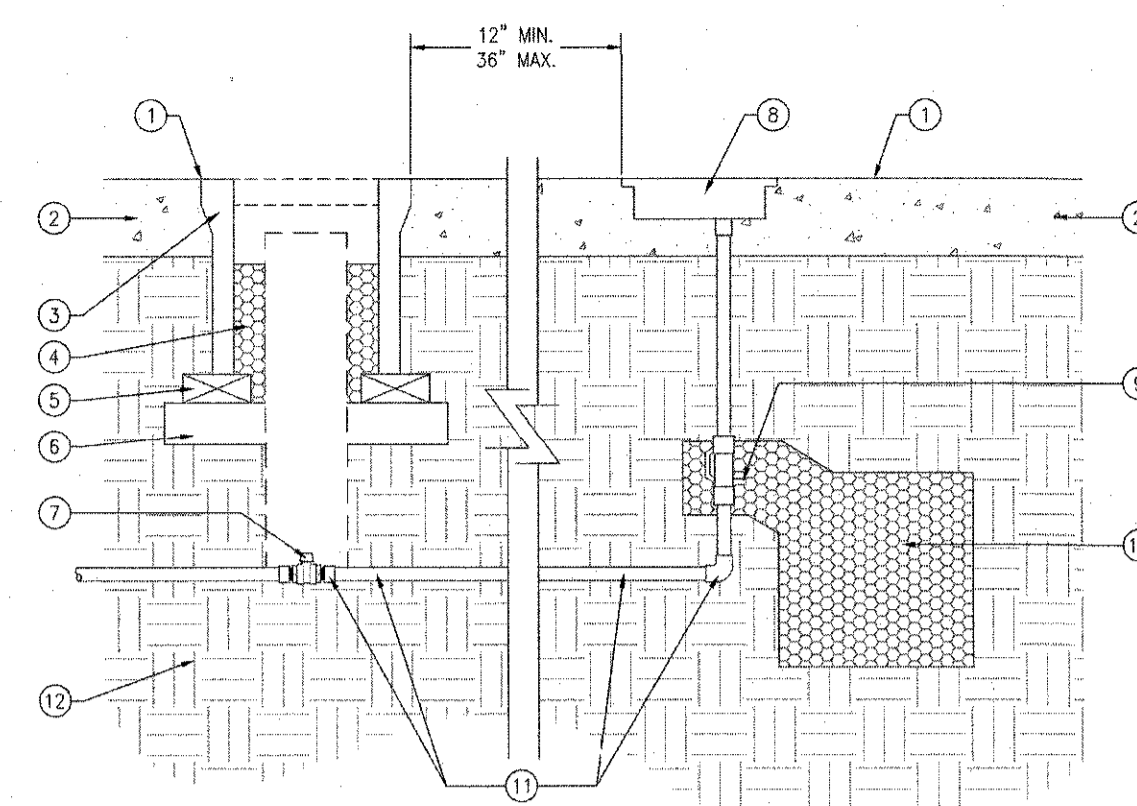
*Jon R. Ericson* 2/5/21  
 JON R. ERICSON, P.E., P.T.O.E. DATE:  
 CITY ENGINEER



POROUS PAVE SECTION



ACCESSIBLE PARKING SIGN AND SYMBOL DETAIL



- 1 FINISH GRADE TOP OF CONCRETE (TYP.)
- 2 ADJACENT CONCRETE HARDSCAPE (TYP.)
- 3 ROUND CONCRETE TRAFFIC RATED BOX WITH CAST IRON BOLT DOWN LID
- 4 BACKFILL MATERIAL: 3/4\"/>

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

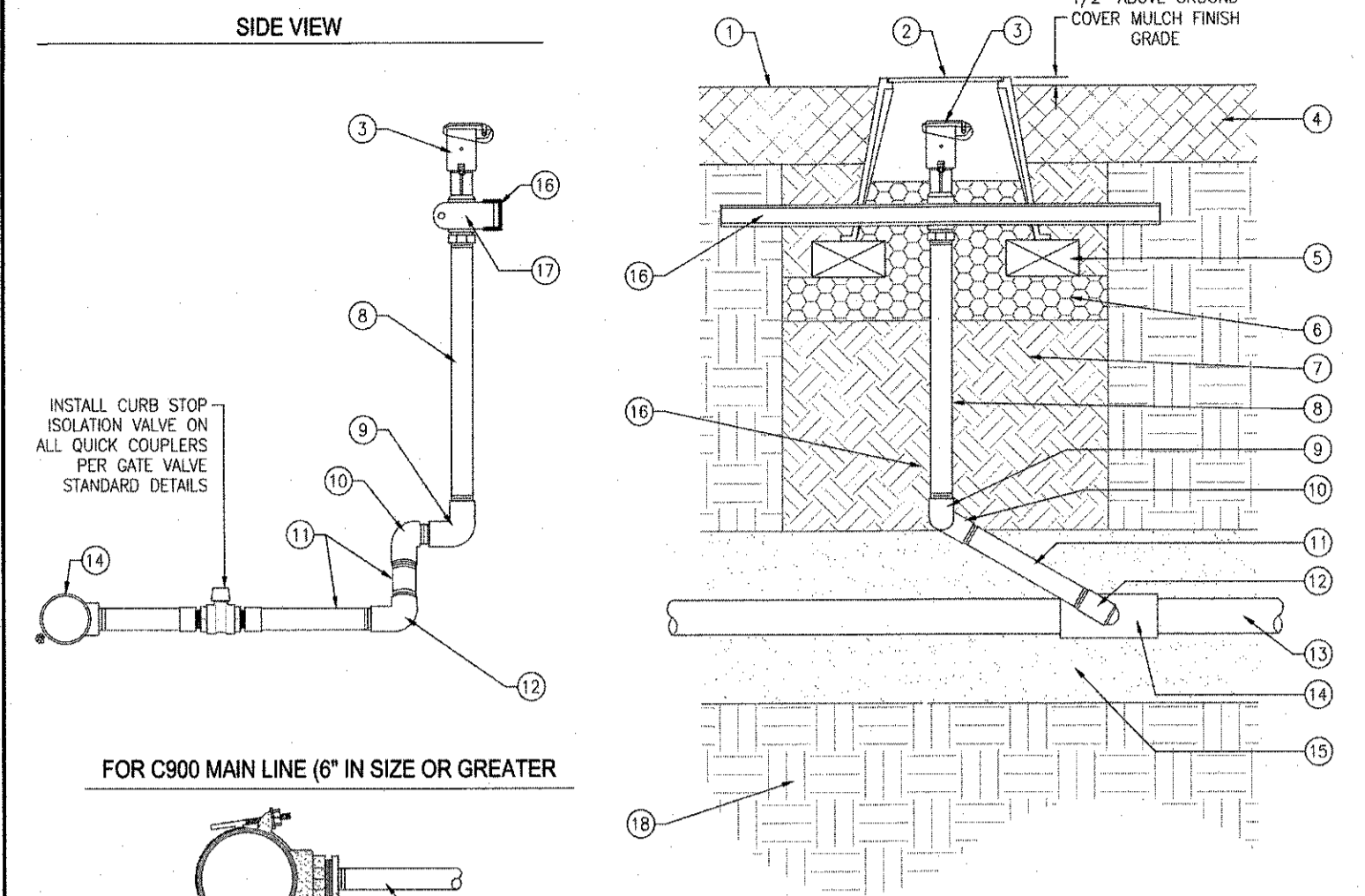
IRRIGATION DETAILS

GROUND HYDRANT

DRAWING No.

IR-001

APPROVED BY: GSJ DATE: 10/2019



- 1 FINISH GRADE (TYP.)
- 2 VALVE BOX: CARSON 910 ROUND BOX (GREEN FOR POTABLE OR PURPLE FOR RECLAIMED)
- 3 QUICK COUPLER PER LEGEND: 1\"/>

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

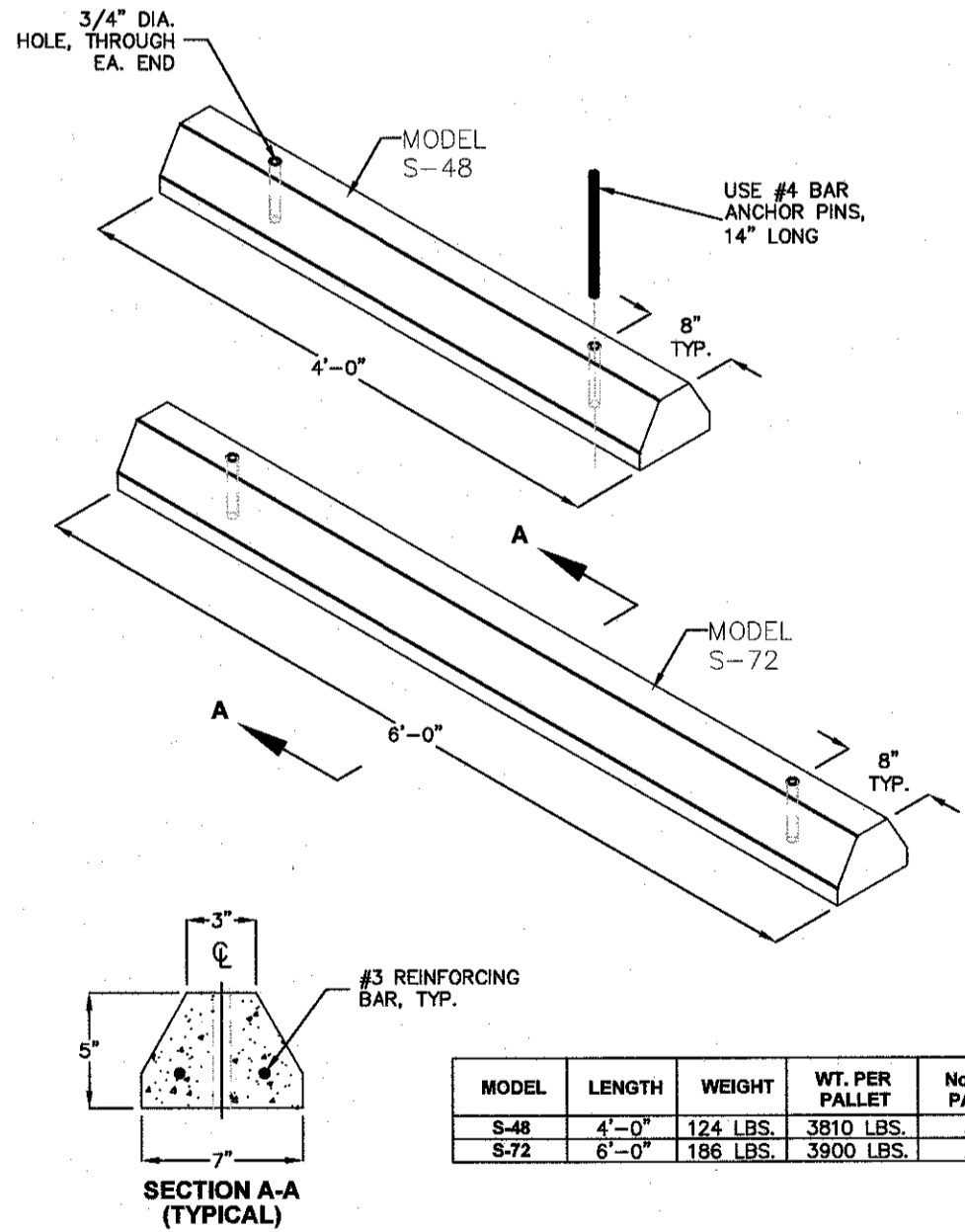
IRRIGATION DETAILS

QUICK COUPLER DETAIL

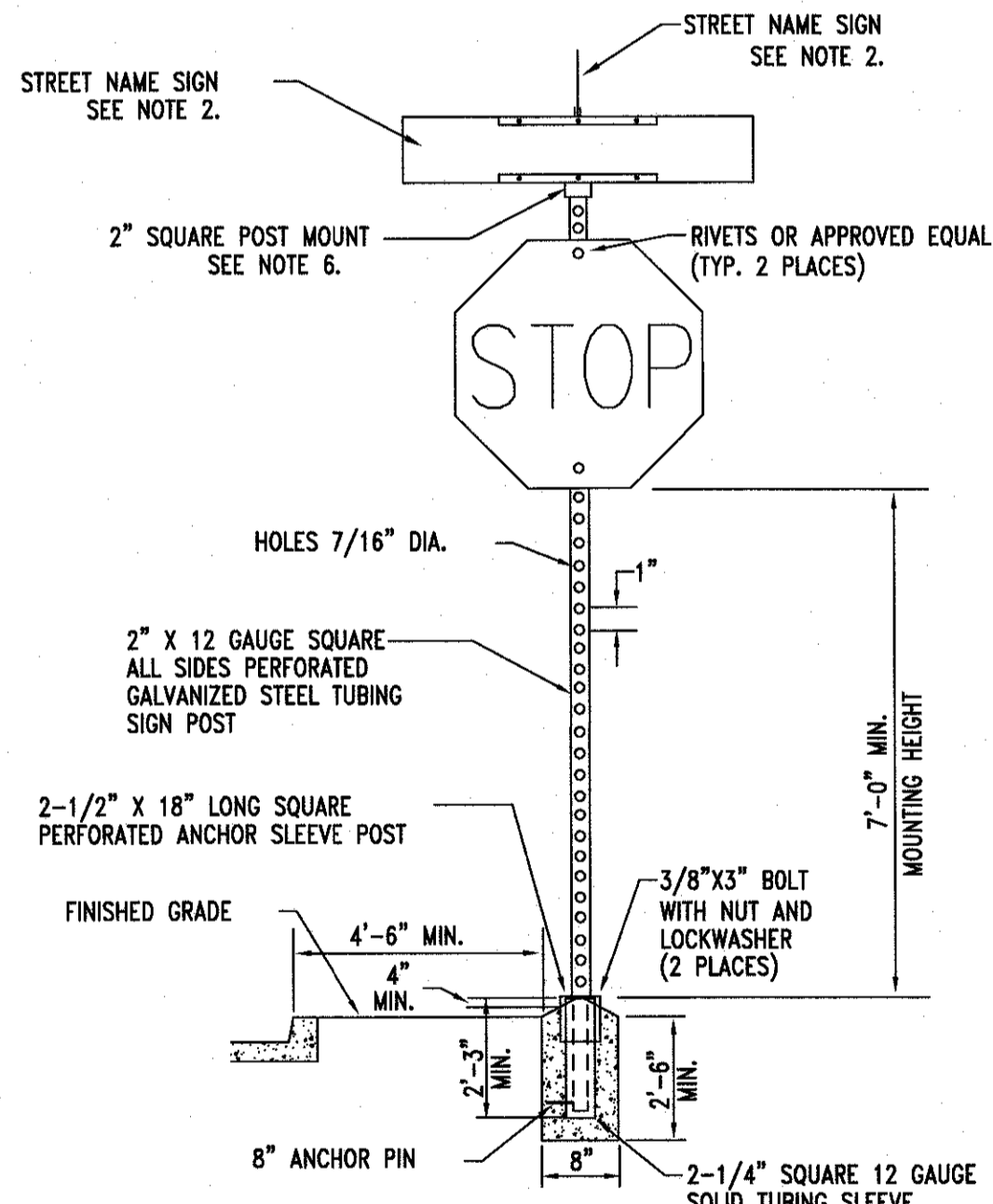
DRAWING No.

IR-007

APPROVED BY: GSJ DATE: 02/2019



PARKING BUMPER



1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. STREET NAME SIGN SHALL BE AS SPECIFIED IN STANDARD DETAIL DRAWING S-401B.
3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6\"/>

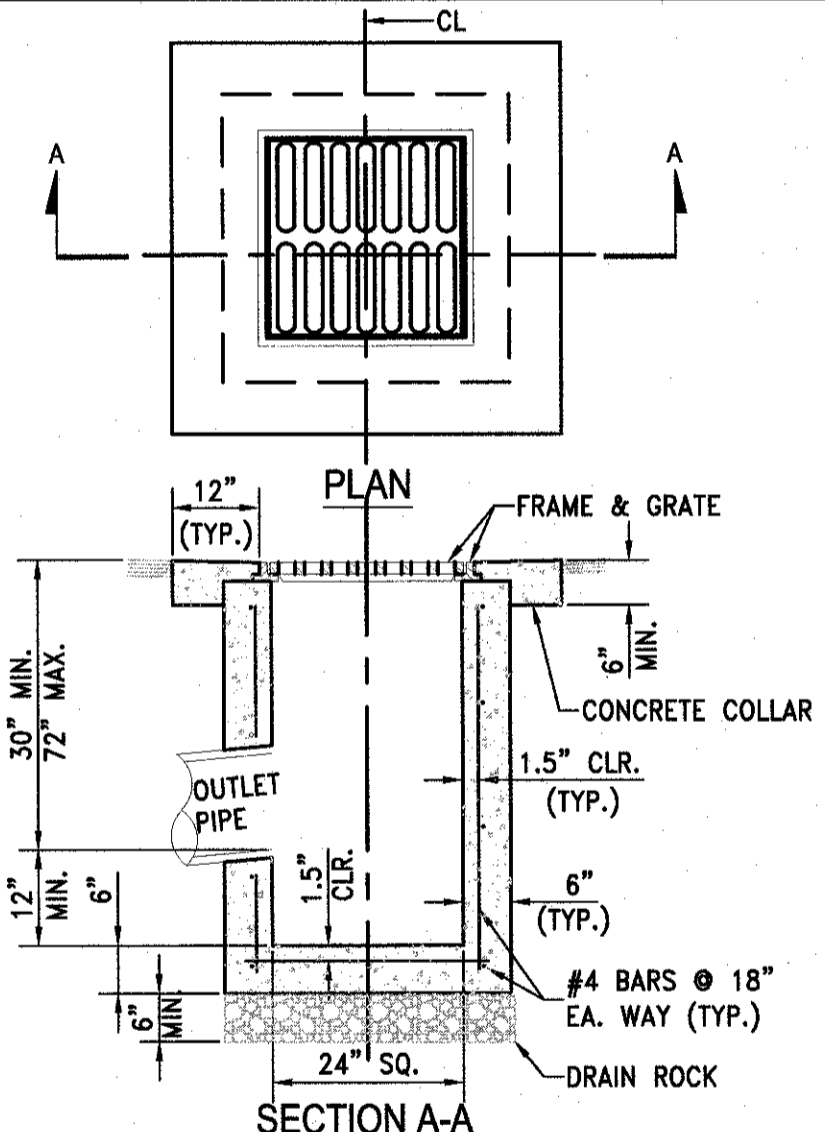
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

TRAFFIC SIGN INSTALLATION

DRAWING No.

S-401A

APPROVED BY: JE DATE: 1/2020



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\"/>

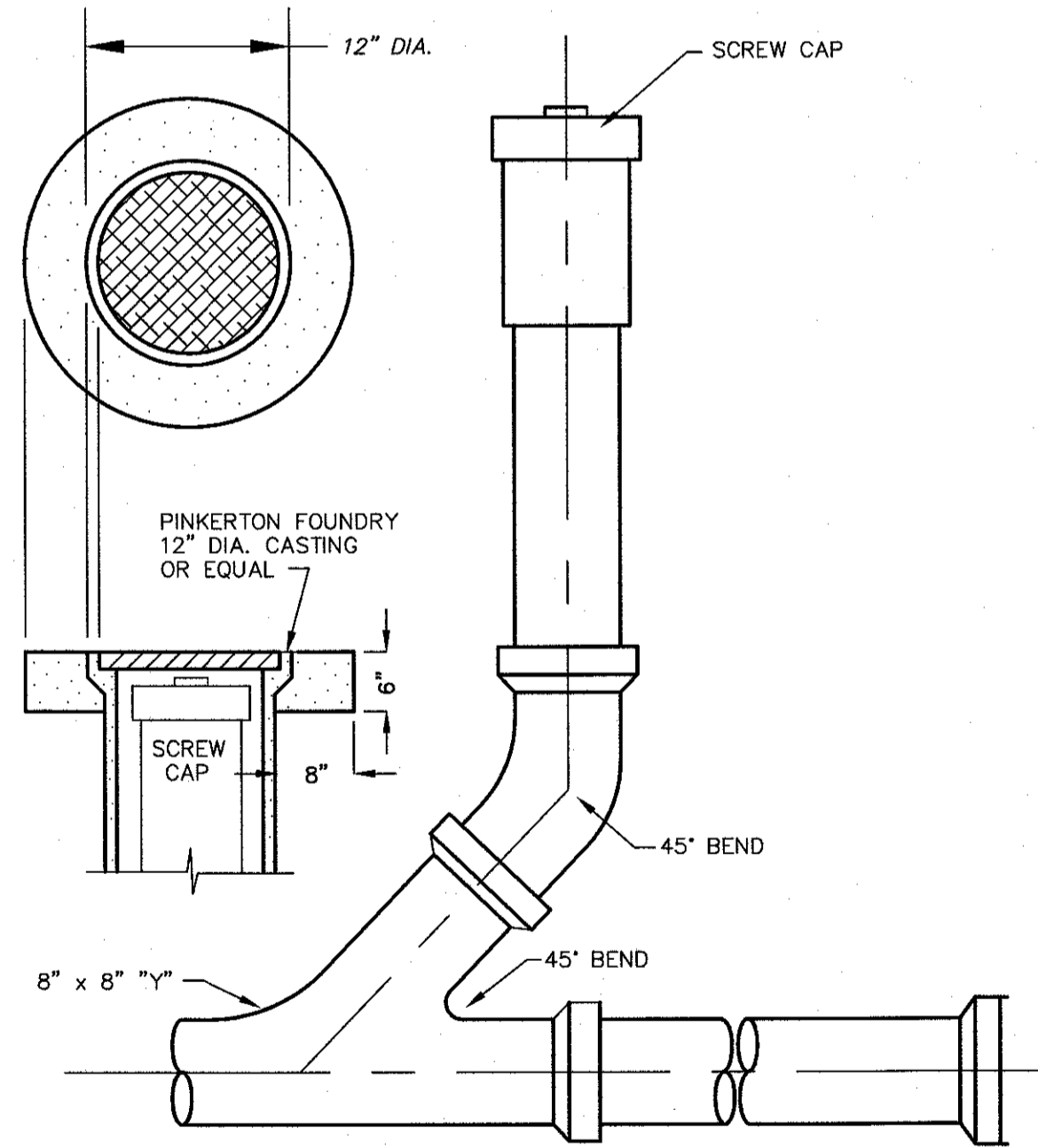
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

CATCH BASIN TYPE 3-R

DRAWING No.

S-203

APPROVED BY: JE DATE: 1/2020



1. CLEANOUTS PERMITTED ONLY ON DEAD-END LINES SERVING 4 OR LESS LOTS OR BUILDINGS.

STORM CLEANOUT

CITY OF SPARKS APPROVAL:

*[Signature]* 2/5/21 DATE: \_\_\_\_\_  
 JON R. ERICSON, P.E., P.T.O.E. CITY ENGINEER

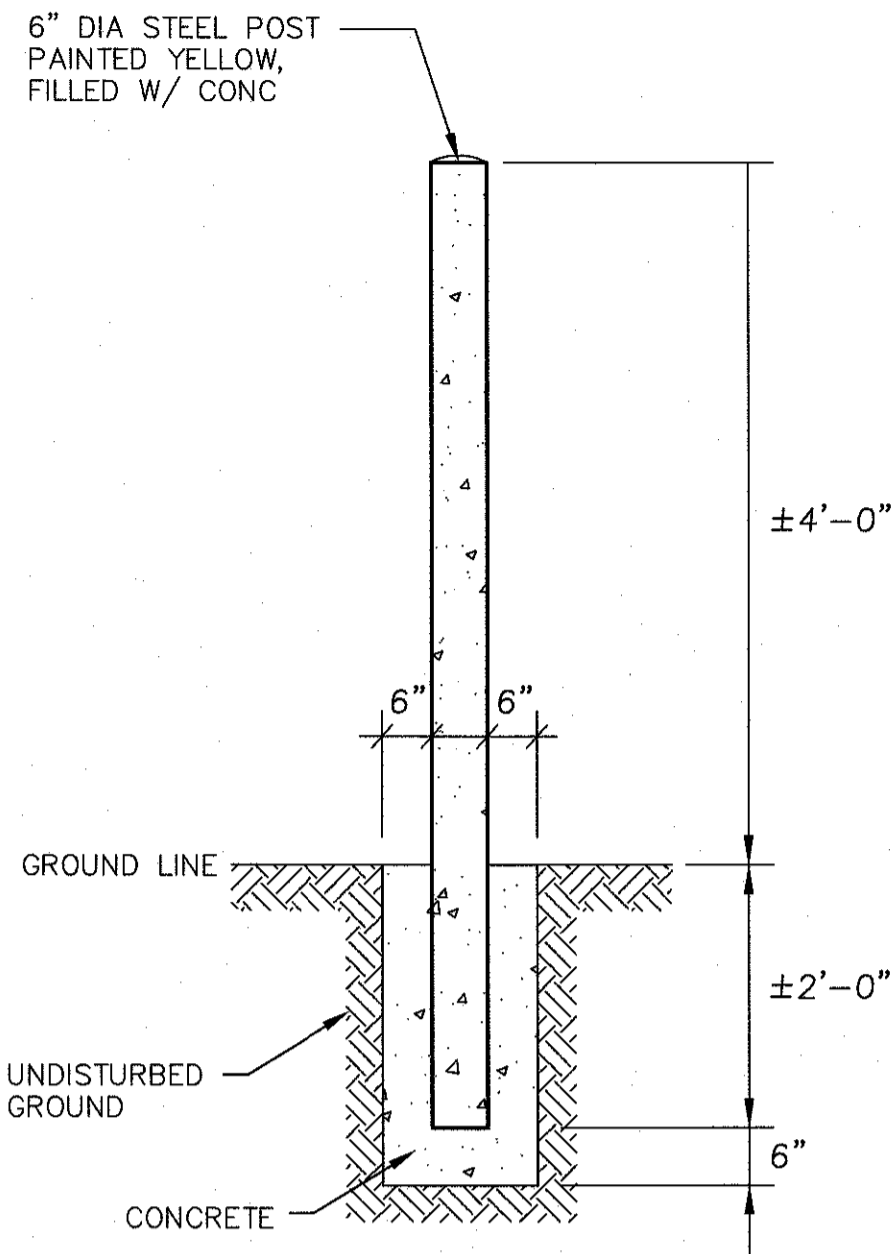
REV.	DATE	DESCRIPTION	BY	APP'D

VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 CIVIL DETAILS  
 SPARKS WASHOE NEVADA

885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-3329  
 ODYSSEY-RENO.COM  
 odyssey ENGINEERING INCORPORATED

PROFESSIONAL ENGINEER - STATE OF NEVADA  
 FRANK A. BIDART  
 Exp. 12-31-22  
 CIVIL No. 10504

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JOB NO.	4273
SHEET	12
OF	15



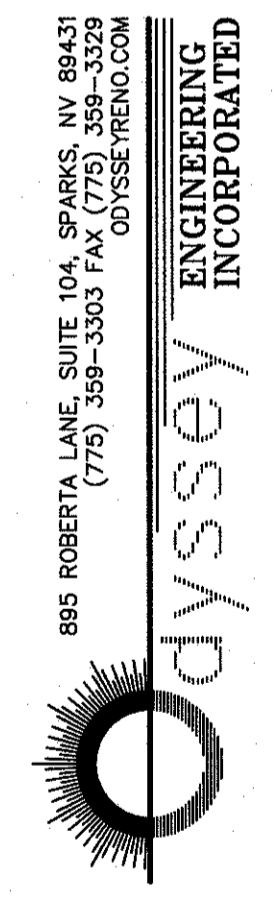
BOLLARD DETAIL

REV.	DATE	DESCRIPTION	BY	APP'D

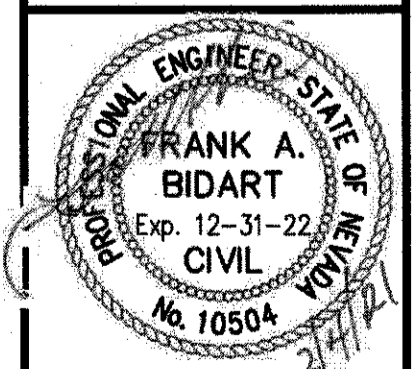
DATE: FEB 4, 2021  
 DRAWN BY: ACAD 20  
 DESIGNED BY: TCP  
 CHECKED BY: FAB

VICTORIAN AVE. INFRASTRUCTURE  
 IMPROVEMENTS SECTION 4  
 CIVIL DETAILS

SPARKS WASHOE NEVADA



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 ODYSSEY.ENG.COM



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JOB NO.  
 4273

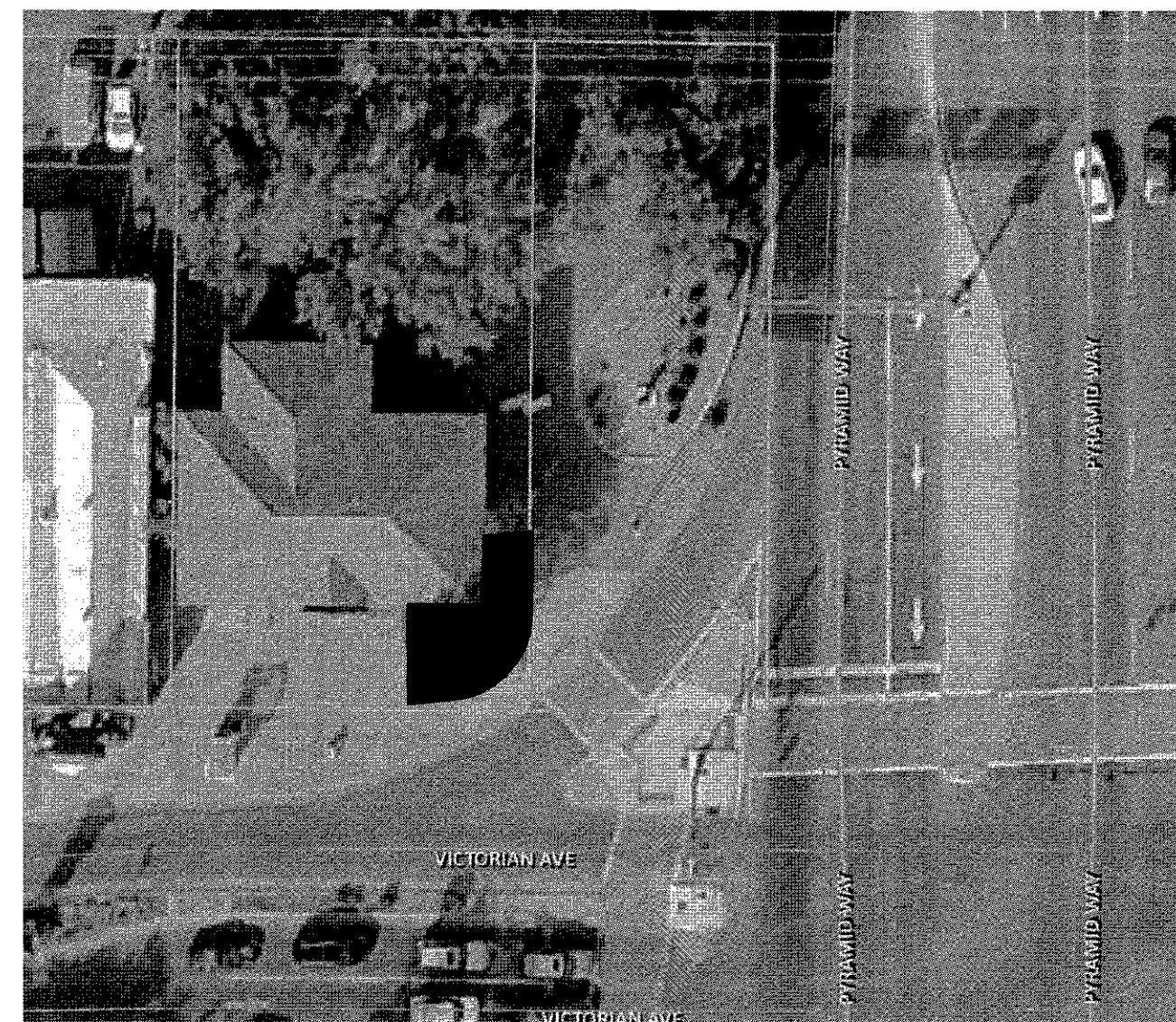
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CITY OF SPARKS APPROVAL:

*[Signature]* 2/5/21  
 JON R. ERICSON, P.E., P.T.O.E. DATE:  
 CITY ENGINEER

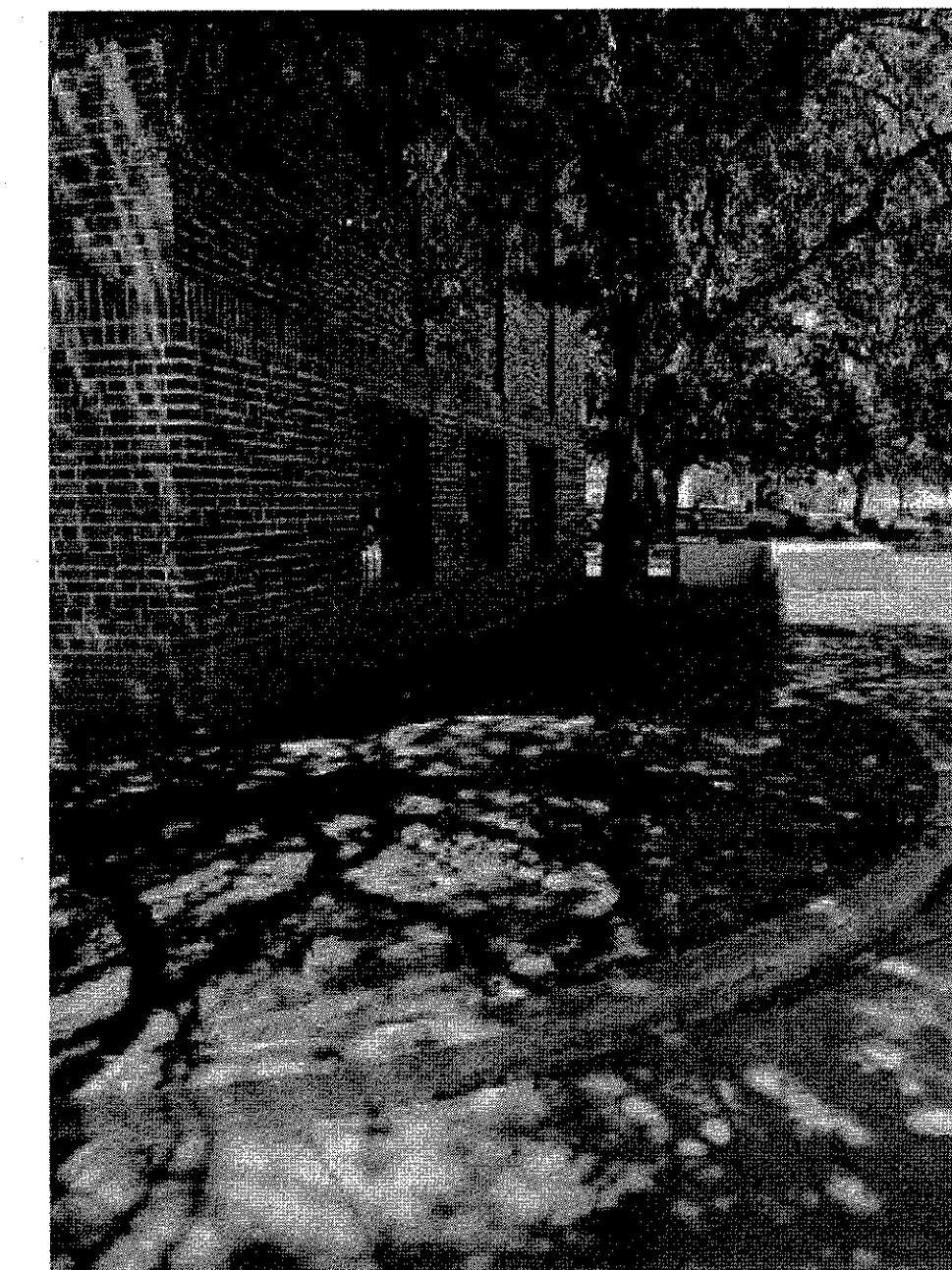


**ART LOCATIONS ~ NTS**



**CITY OF SPARKS APPROVAL:**

*[Signature]*  
 JON R. ERICSON, P.E., P.T.O.E.  
 CITY ENGINEER  
 DATE: 2/2/21

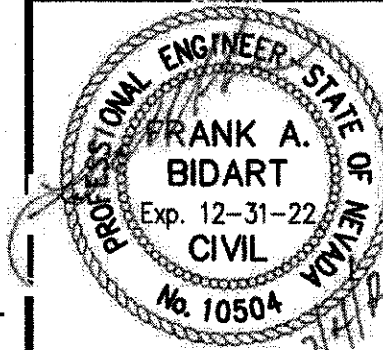


INSTALL 4'L X 4'W X 2'H PEDESTAL IN LANDSCAPE ISLAND (REF. DTL. 1/15 & 4/15 FOR PEDESTAL).  
 PROTECT IN PLACE ALL EXISTING UTILITIES.  
 REMOVE (2) TREES, PROTECT IN PLACE BUILDING, SIDEWALK, AND CURB, ETC.

REV.	DATE	DESCRIPTION	BY	APP'D

**VICTORIAN AVE. INFRASTRUCTURE IMPROVEMENTS SECTION 4 ART LOCATIONS**  
 SPARKS WASHOE NEVADA

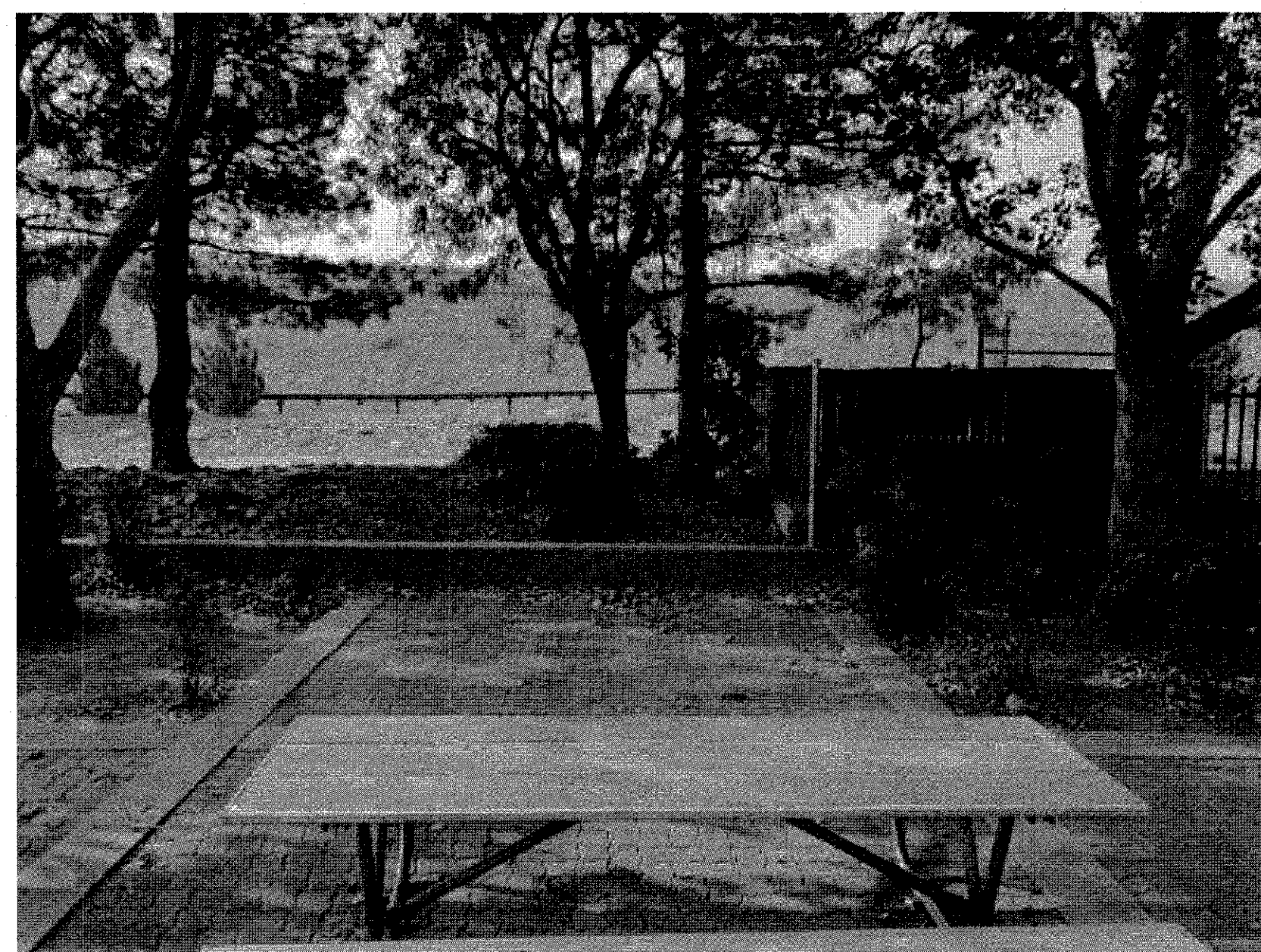
**odyssey ENGINEERING INCORPORATED**  
 655 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-3329  
 ODYSSEYRENO.COM



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OF	15

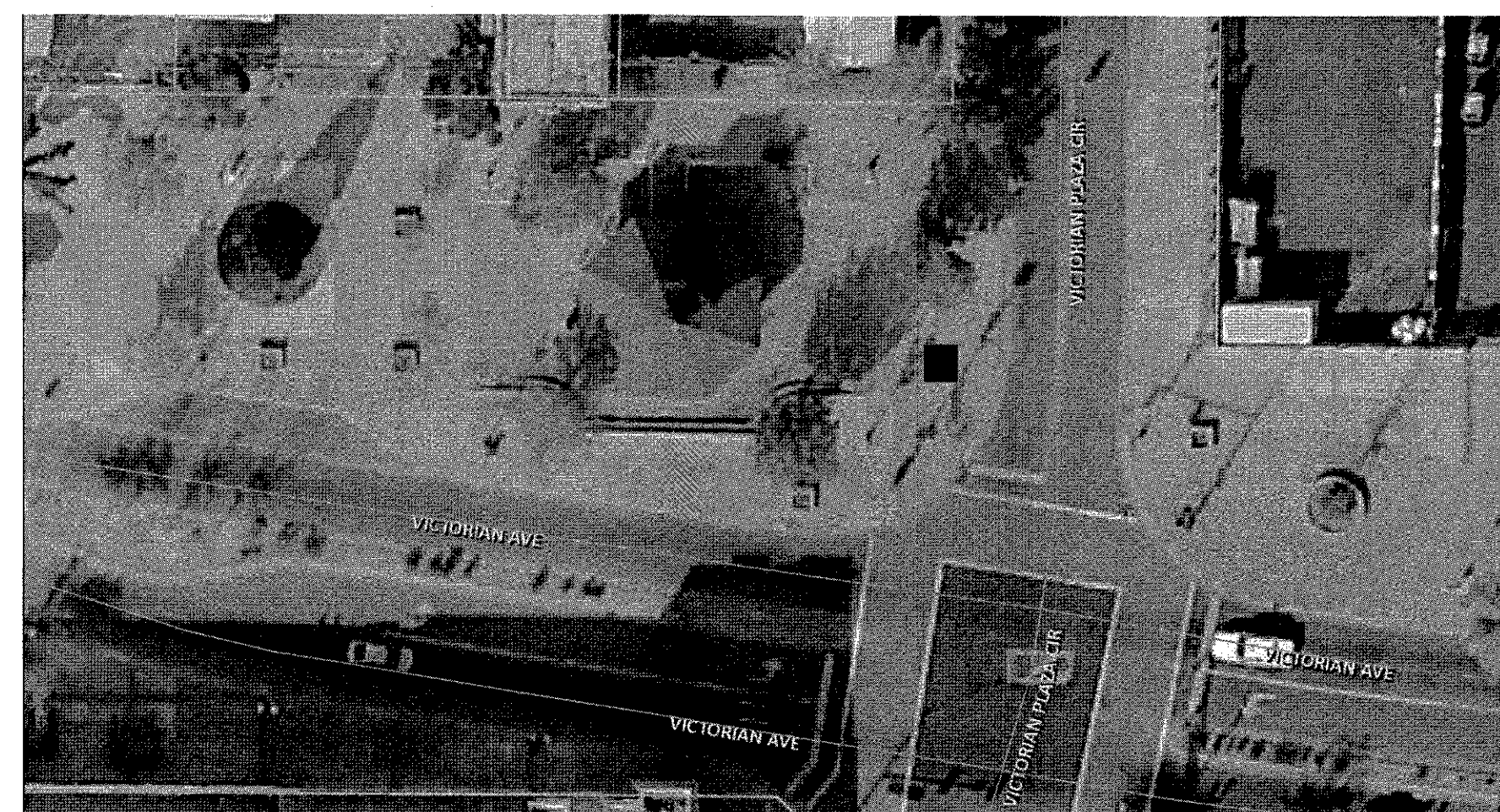


**ART LOCATION 1**



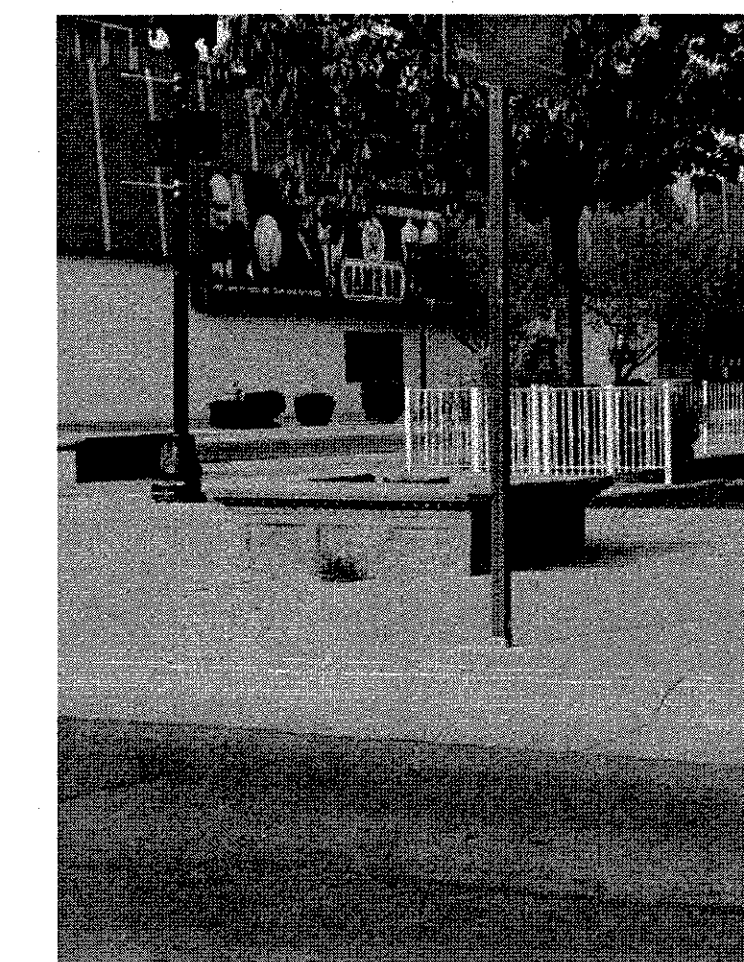
**ART LOCATION 2**

INSTALL 4'L X 4'W X 2'H PEDESTAL ON PATIO (REF. DTL. 1/15 & 4/15 FOR PEDESTAL).  
 PROTECT IN PLACE ALL EXISTING UTILITIES  
 REMOVE & REPLACE EXIST. BRICK AS NEEDED

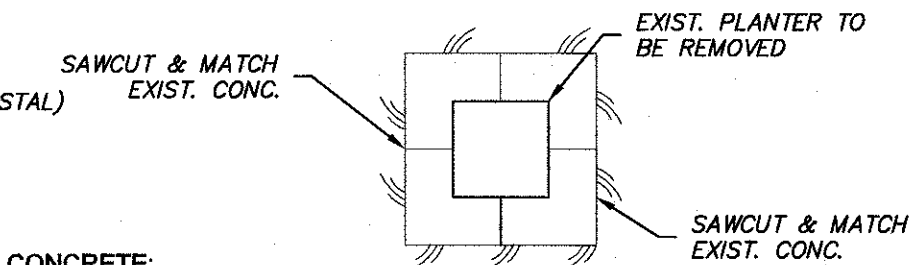


**ART LOCATION 3**

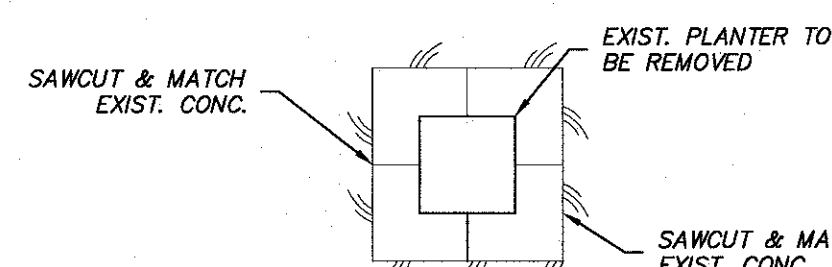
EXIST. PLANTER TO BE REMOVED  
 INSTALL 4'L X 4'W X 4.5'H PEDESTAL (REF. DTL. 2/15, 4/15 FOR PEDESTAL)  
 PROTECT IN PLACE ALL EXISTING UTILITIES



**TYPICAL DETAIL**



**TYPICAL DETAIL**



**ART LOCATION 4**

EXIST. PLANTER & TREE TO BE REMOVED  
 INSTALL 4'L X 4'W X 4.5'H PEDESTAL (REF. DTL. 2/15 & 4/15 FOR PEDESTAL)  
 PROTECT IN PLACE ALL EXISTING UTILITIES

- A. DIVISION 3 - SECTION 031000 - CONCRETE FORMWORK:**
- DESIGN FORMS AS RECOMMENDED IN ACI 347. CONSTRUCT FORMS OF ADEQUATE STRENGTH AND STIFFNESS TO OBTAIN REQUIRED FINISHED CONCRETE SURFACE AND LINE TOLERANCES. FORMS SHALL BE TIGHT ENOUGH TO PREVENT LEAKAGE OF MORTAR FINES. USE NEW FORM MATERIALS FOR ALL EXPOSED CONCRETE SURFACES, AND NEW OR PROPERLY CLEANED USED FORM MATERIALS FOR UNEXPOSED SURFACES. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, BRACING, AND SHORING REQUIRED.
  - COAT ALL FORMS WITH APPROVED FORM OIL.
  - REMOVE ALL DIRT, CHIPS, SAWDUST, RUBBISH, WATER AND/OR ICE FROM FORM PRIOR TO PLACEMENT OF CONCRETE.
  - FORMWORK TOLERANCES:
    - FOOTING THICKNESS - PLUS/MINUS 1/2 INCH.
    - WALL AND FOOTING CENTERLINE LOCATION - PLUS/MINUS 1/4 INCH.
    - CONSPICUOUS LINES AND LEVELS - PLUS/MINUS 1/4 INCH VARIATION IN 10 FEET.
    - DEFLECTION OF FORM MATERIALS - 1/360 TIMES SPAN.
    - ALL OTHER - 1/4 INCH IN 10 FEET, AND 1/2 INCH OVERALL, EXCEPT VISIBLE LINES SHALL APPEAR STRAIGHT AND TRUE AND FREE FROM SUDDEN TRANSITIONS.
  - ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4 INCH OR TOOLED TO A 1/2 INCH RADIUS. REMOVE FORM WORK IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
    - FORMS AT SLAB EDGE: 1 DAY
    - SIDE FORMS AT FOOTINGS: 2 DAYS
    - ALL OTHER VERTICAL SURFACES: 7 DAYS
- B. DIVISION 3 - SECTION 032000 - CONCRETE REINFORCEMENT:**
- REINFORCEMENT SHALL BE ASTM A 615 GRADE 60.
  - LAP SPLICES 36 DIAMETERS UNO AND TIGHTLY WIRE IN PLACE. SECURE REINFORCEMENT IN PLACE WITH CHAIRS, TIES, OR DOBIES AS RECOMMENDED IN CRSI MANUAL OF STANDARD PRACTICES. DOBIES FOR SLABS-ON-GRADE SHALL BE CAST CONCRETE CUBES WITH WIRE TIES.
  - THE HEATING OF REINFORCING STEEL TO AID IN BENDING AND SHAPING OF BARS IS NOT PERMITTED. ALL BENDS IN REINFORCING STEEL ARE TO BE MADE COLD. ALL BEND RADIUS SHALL CONFORM TO CRSI MANUAL OF STANDARD PRACTICE.
  - CONCRETE COVERAGE FOR REINFORCING STEEL SHALL BE THE CLEAR DISTANCE FROM THE FORM FACE TO THE EXTERIOR SURFACE OF THE BAR AS FOLLOWS:
    - FOUNDATIONS PLACED AGAINST GROUND - 3 INCHES.
    - FORMED SURFACES EXPOSED TO GROUND OR WEATHER - 1-1/2 INCH FOR #5 BAR AND SMALLER; 2 INCHES FOR LARGER THAN #5 BAR.
    - REINFORCING SHOWN OR NOTED CONTINUOUS, SHALL RUN IN AS LONG OF LENGTHS AS PRACTICAL.

- C. DIVISION 3 - SECTION 033000 - CAST-IN-PLACE CONCRETE:**
- CONCRETE MIX DESIGN IN ACCORDANCE WITH ASTM C 94, SHALL BE AS FOLLOWS:
    - CLASS "D" CONCRETE - 4,500 PSI CONCRETE WITH 3/4 INCH MAXIMUM STONE AGGREGATE. TYPE II CEMENT, 3 INCH SLUMP. USE 4 LBS/CY MACRO 360 FF MACROSYNTHETIC FIBERS AS MANUFACTURED BY BASF OR EQUAL 5-7% AIR ENTRAINMENT, AND .45 WATER/CEMENT RATIO. EXPOSURE CLASS F-1, 50 PO AND CO. FOR USE IN ALL EXTERIOR CONCRETE.
    - CONCRETE SHALL BE PLACED AT THE MINIMUM PRACTICAL SLUMP NOT EXCEEDING THE SPECIFIED MAXIMUM DESIGN SLUMP. ADDITIONAL WORKABILITY AND SLUMP MAY BE OBTAINED WITH APPROVED ADJUTIVES WHICH DO NOT INCREASE WATER CONTENT OR SHRINKAGE (I.E. WATER REDUCERS OR SUPER PLASTICIZER).
    - PLACE CONCRETE USING METHODS WHICH AVOID SEGREGATION. MECHANICALLY VIBRATE ALL CONCRETE TO CONSOLIDATE IT IN FORMS.
    - CONCRETE FINISHES:
      - FOOTINGS - FLOAT TO A SMOOTH LEVEL SURFACE WITHIN PLUS/MINUS 1/4 INCH OF INDICATED ELEVATION.
      - FORMED SURFACES NOT EXPOSED - STRIP FORMS, PATCH LARGE HOLES OR DEFECTS, FILL SNAP TIE CONE HOLES FLUSH.
      - FORMED EXPOSED SURFACES - STRIP FORMS, PATCH LARGE HOLES OR DEFECTS, FILL SNAP TIE CONE HOLES FLUSH, SACK AND CURE.
      - ALL EXPOSED CONCRETE EDGES, EXCEPT SLABS-ON-GRADE, SHALL BE CHAMFERED 3/4" OR TOOLED TO A 1/2 INCH RADIUS.
  - CONCRETE CURING:
    - CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVE HOT OR COLD TEMPERATURES FOR A MINIMUM OF FIVE DAYS.
- D. DIVISION 13 - SECTION 138000 - ADHESIVE ANCHORING SYSTEMS:**
- ADHESIVE ANCHORING IN CONCRETE SHALL BE SIMPSON SET-3G ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, AND COMPLY WITH THE PROVISIONS OF ICC ES ESR-4057.
  - ADHESIVE ANCHOR SYSTEM TO BE USED IN TEMPERATURES BELOW 40° F AND ABOVE 14° F SHALL BE SIMPSON AT-XP ADHESIVE, AS MANUFACTURED BY SIMPSON STRONG TIE COMPANY AND COMPLY WITH THE PROVISIONS OF IFPMO UES ESR-283 AND ESR-281
  - THREADED RODS USED IN EXTERIOR APPLICATIONS SHALL BE ASTM A193 GRADE B8 OR B8M (STAINLESS STEEL AISI TYPE 304 OR TYPE 316). THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHERWISE. COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED AND CONSIDERED PART OF THE ASSEMBLY. AT SS ANCHORS COAT THREADS WITH OIL TO PREVENT NUT FROM SEIZING. PROVIDE NEOPRENE WASHER WHEN BOLTING MATERIAL NON COMPATIBLE WITH SS

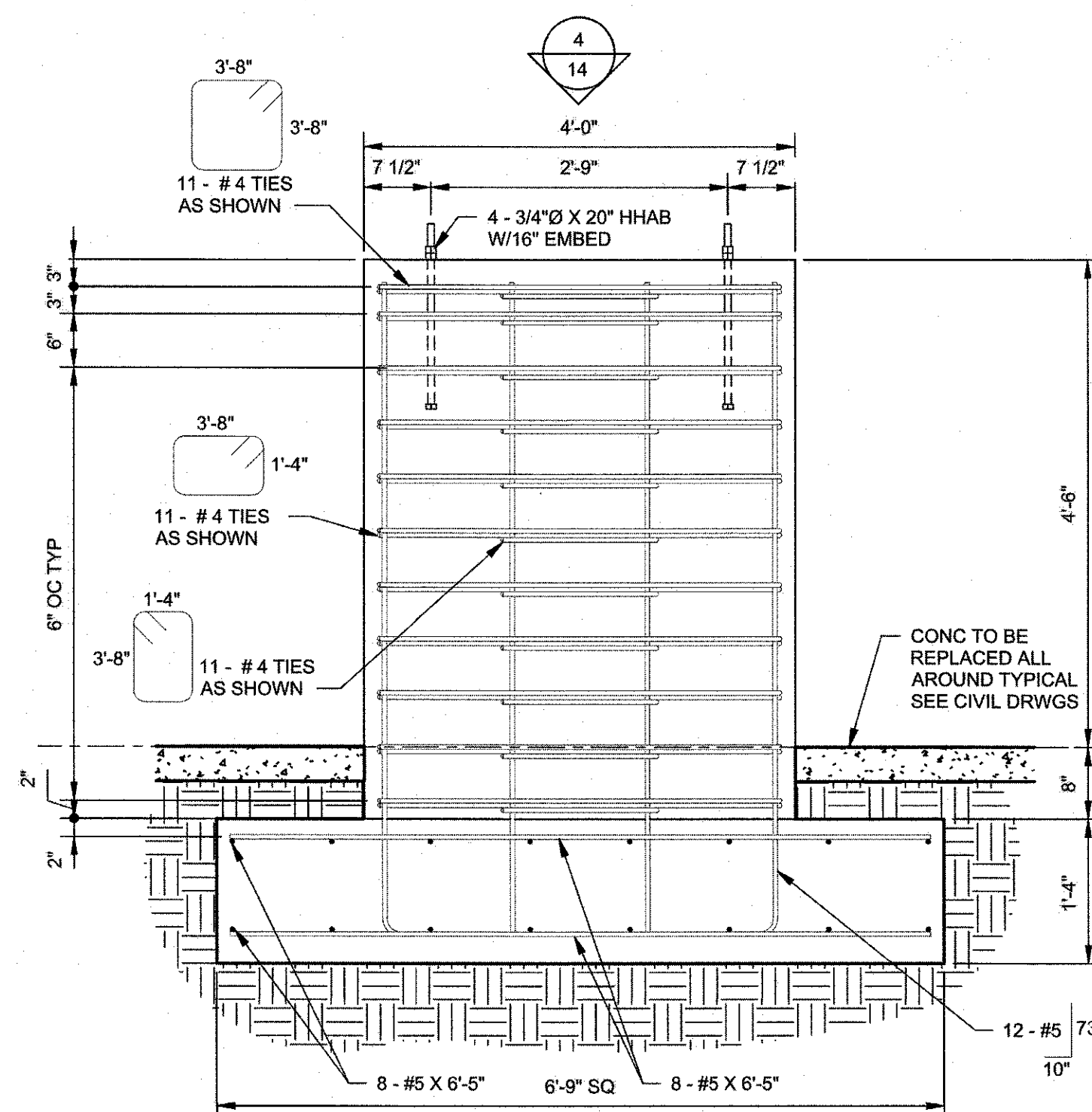
**NOTE:**

COORDINATE WITH CITY OF SPARKS ART LOCATIONS REQUIRING ELECT. AND/OR WATER  
 ALL CONCRETE SHALL BE COLOR: SEQUOIA SAND  
 CONTRACTOR SHALL REPAIR ANY EXISTING INFRASTRUCTURE (UTILITIES, CURB, & SIDEWALK, ETC.) DAMAGED DURING THE REMOVAL OR CONSTRUCTION APART OF THE PROJECT

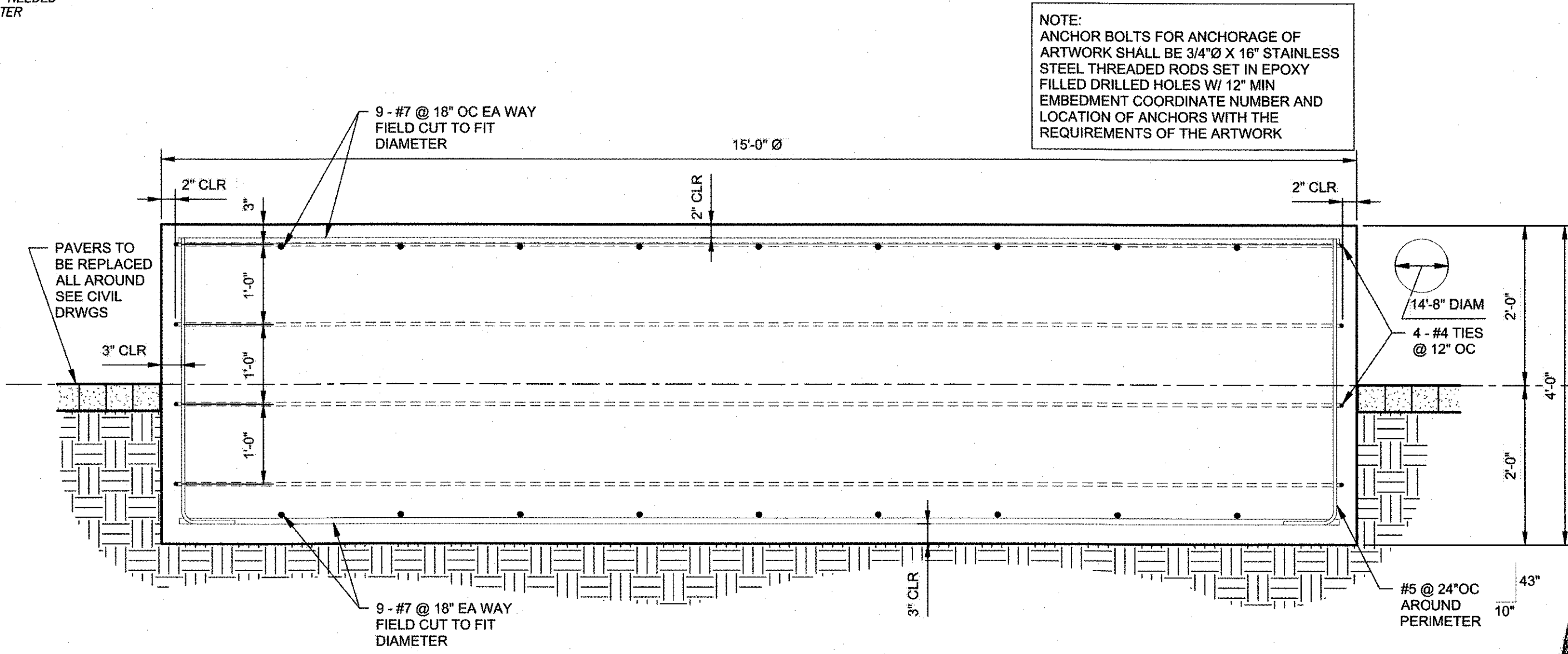


**ART LOCATION 5**

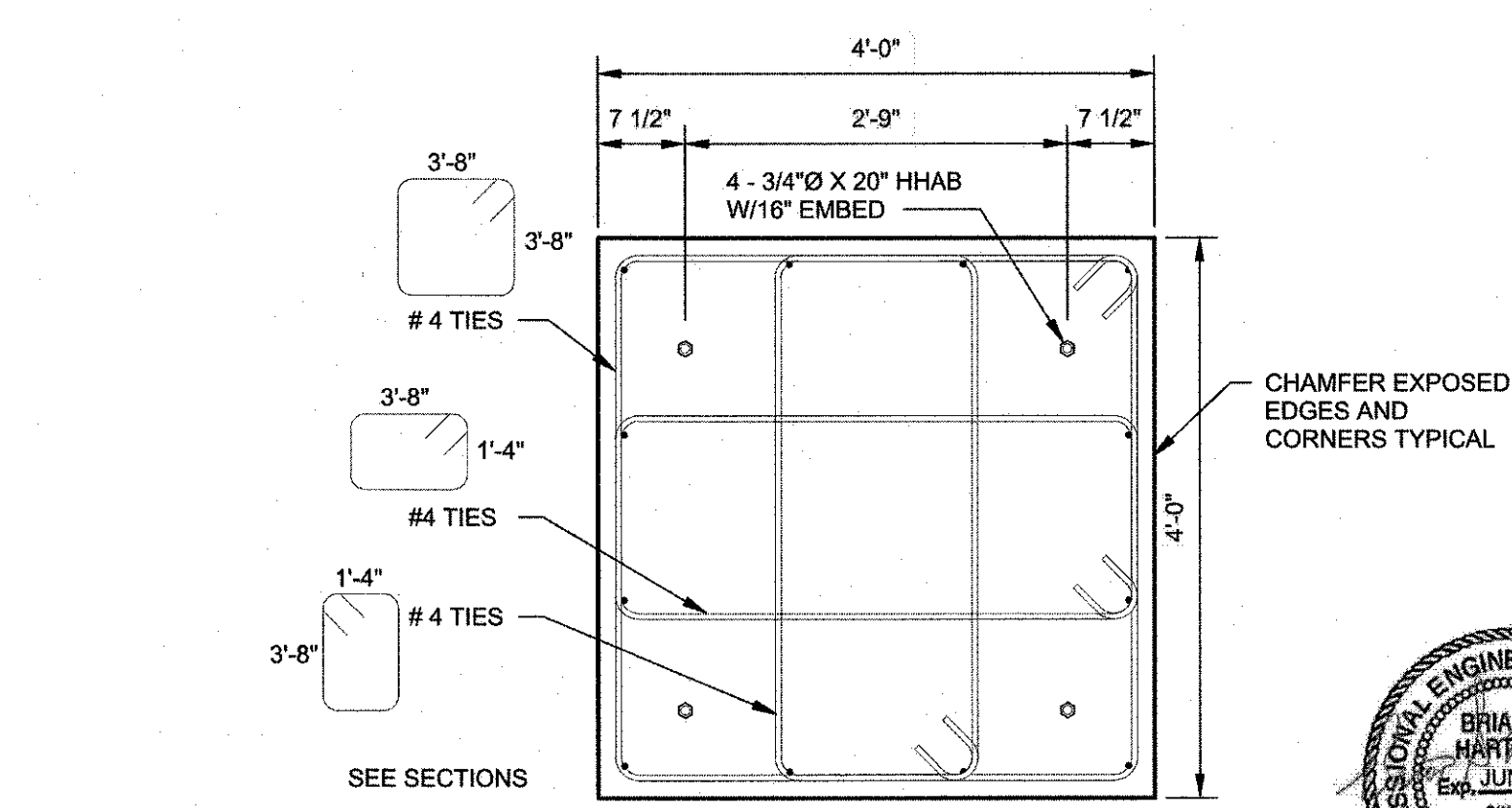
INSTALL 15' DIAMETER 2'H PEDESTAL (REF. DETAIL 3/15)  
 PROTECT IN PLACE EXIST. UTILITIES. (INSTALL TRAFFIC RATED BOXES FOR ALL UTILITIES PRESENT)  
 COORDINATE W/ CITY OF SPARKS STAFF LOCATIONS  
 REMOVE & REPLACE EXIST. BRICK AS NEEDED  
 REMOVE EXIST. ART WORK AND PLANTER



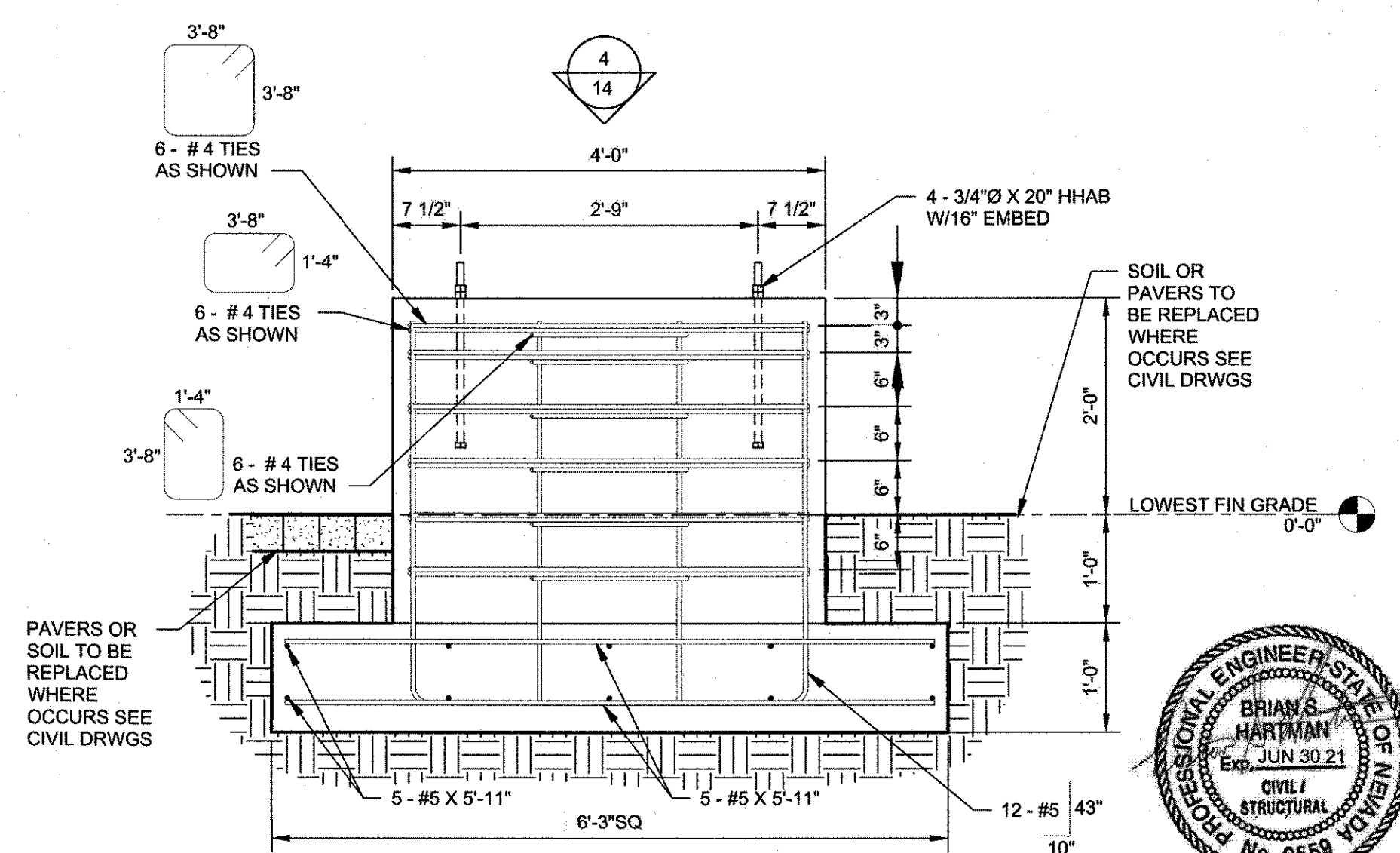
**2/15 SECTION**  
SCALE: 3/4" = 1'-0"



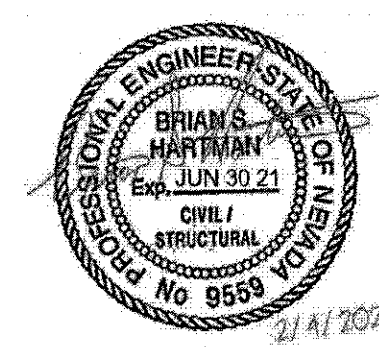
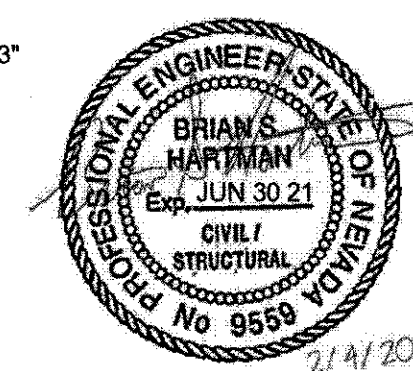
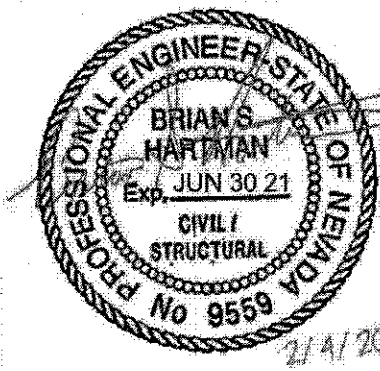
**3/15 SECTION**  
SCALE: 3/4" = 1'-0"



**4/15 PLAN**  
SCALE: 3/4" = 1'-0"



**1/15 SECTION**  
SCALE: 3/4" = 1'-0"



**SPECIAL INSPECTIONS**

- THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED BY CERTIFIED SPECIAL INSPECTORS.
- A. CONCRETE:
    1. PLACEMENT AND TEST CYLINDERS FOR FOUNDATIONS.
    2. PLACEMENT, AIR, AND TEST CYLINDERS FOR EXTERIOR CONCRETE FLATWORK.
    3. ALL CONCRETE WORK PER IBC TABLE 1705.3.
  - B. EPOXY ANCHORS:
    1. COMPLIANCE WITH EVALUATION SERVICE REPORT IAPMO UES ER-263 (SIMPSON AT-XP IN CONCRETE).
    2. COMPLIANCE WITH EVALUATION SERVICE REPORT IAPMO ICC-ES ESR-4057 (SIMPSON SET-3G IN CONCRETE).

CITY OF SPARKS APPROVAL:

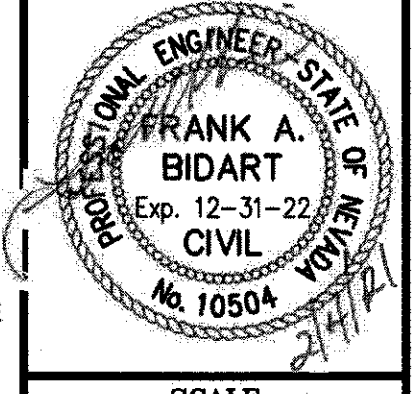
*Jon R. Ericson* 2/5/21  
 JON R. ERICSON, P.E., P.T.O.E. DATE:  
 CITY ENGINEER

REV.	DATE	DESCRIPTION	BY	APP'D

DATE: FEB 4, 2021  
 DRAWN BY: ACAD 20  
 DESIGNED BY: TCP  
 CHECKED BY: FAB

VICTORIAN AVE. INFRASTRUCTURE  
 IMPROVEMENTS SECTION 4  
 ART LOCATIONS  
 SPARKS WASHOE NEVADA

855 ROBERTA LANE, SUITE 104, SPARKS, NV 89431  
 (775) 359-3303 FAX (775) 359-3329  
 ODYSSEY-RENO.COM  
**odyssey**  
 ENGINEERING  
 INCORPORATED



SCALE  
 HORIZ. -  
 VERT. -  
 JOB NO. 4273

SHEET  
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