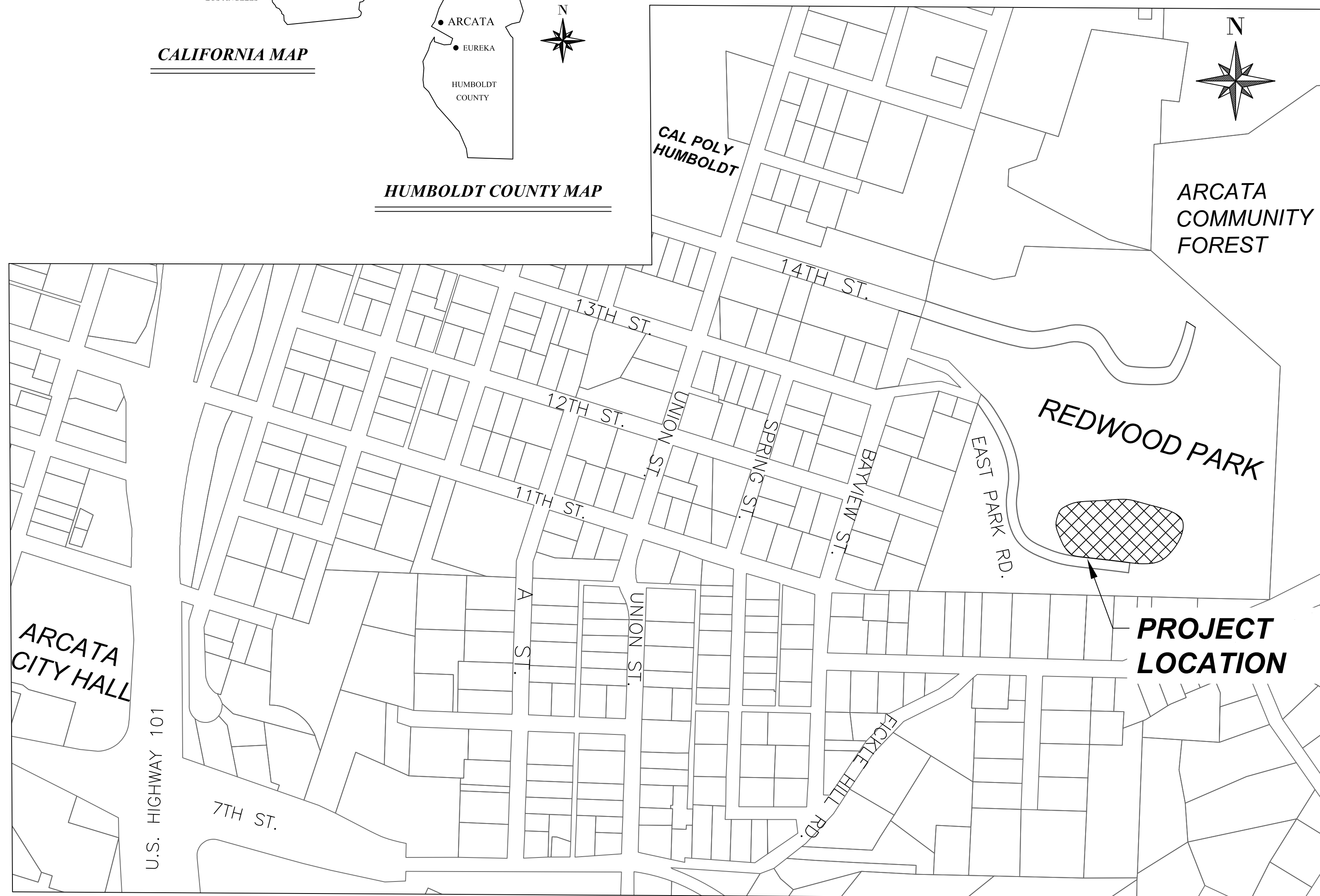
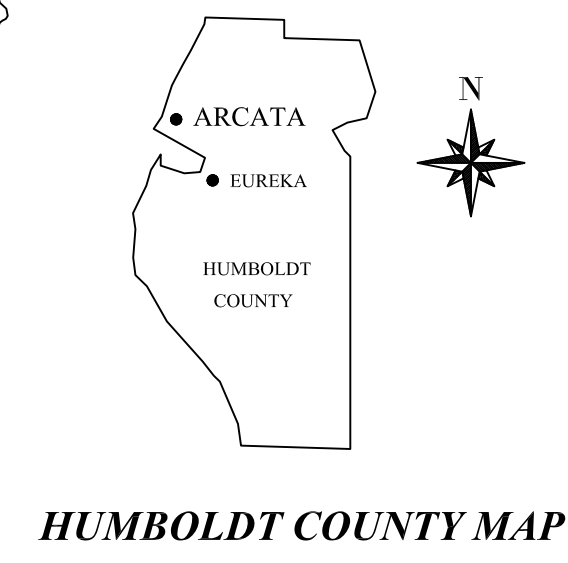


# CITY OF ARCATA, ENGINEERING DEPARTMENT

## REDWOOD PARK IMPROVEMENT PROJECT, 2023

### PHASE I



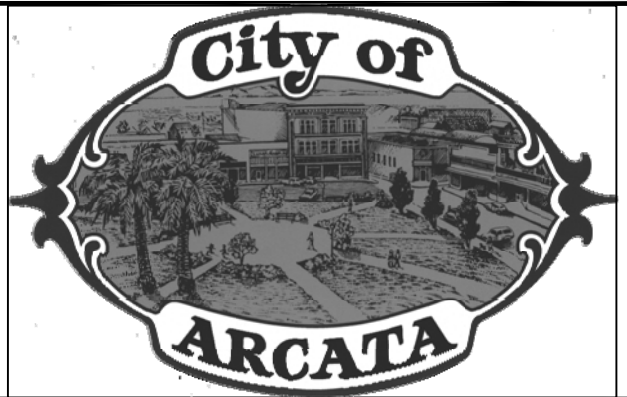
**LOCATION MAP**  
SCALE: 1"=250'

SHEET	DESCRIPTION
G-001	TITLE AND INDEX
G-002	NOTES
C-101	EXISTING SITE CONDITIONS AND DEMO PLAN
C-102	SITE PLAN
C-103	GRADING AND DRAINAGE PLAN
C-301	TYPICAL SECTIONS
C-501	STANDARD DETAILS
C-502	STANDARD DETAILS

APPROVALS		
CITY OF ARCATA EMILY SINKHORN DIRECTOR OF ENVIRONMENTAL SERVICES	(707) 825-2163	_____ DATE
CITY OF ARCATA DAVID CAISSE, RCE 80962 ASSISTANT CITY ENGINEER	(707) 825-2175	_____ DATE
CITY OF ARCATA NETRA KHATRI, RCE 75428 CITY ENGINEER	(707) 825-2173	_____ DATE



No.	Revision/Issue	Date



<b>TITLE AND INDEX</b>	<b>REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I</b>
------------------------	--

Project Address: 490 PARK RD

Designed By: MAKANI AIU

Drawn By: MAKANI AIU

Checked By: DAVID CAISSE, RCE # 80962

Approved By: N. B. KHATRI, RCE #75428

Date: 2/24/2023	Sheet: G-001
Scale: NTS	



**GENERAL NOTES**

- PUMP TRACK NOT PART OF THIS PLAN SET
- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE CONTROL OF THE JOB SITE DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY, AND THEIR REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL AND / OR ALLEGED, IN CONJUNCTION WITH THEIR PERFORMANCE ON THIS PROJECT.
- ALL WORK SHALL COMPLY WITH THE CURRENT CALIFORNIA BUILDING CODE AND CURRENT PLUMBING CODE.
- CONTRACTOR COMPLETED PROJECT COMPONENTS REQUIRES A CLASS A GENERAL ENGINEERING CONTRACTORS LICENSE IN THE STATE OF CALIFORNIA.
- A SET OF SIGNED WORKING DRAWINGS AND SPECIFICATIONS SHALL BE KEPT ONSITE AT ALL TIMES ON WHICH ALL CHANGES OR ADJUSTMENTS IN THE WORK ARE RECORDED.
- ANY MATERIAL NOT REUSED ON SITE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS SUCH AS COUNTY GRADING ORDINANCES. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF MATERIALS TAKEN FROM THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPROVED STAGING AREAS WITH THE CITY.
- THE CONTRACTOR SHALL UPON COMPLETION OF THE PROJECT SHALL LEAVE THE PROJECT AREA FREE OF STOCKPILES, DEBRIS, AND UNSUITABLE MATERIAL.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING ROADS, UTILITIES, AND STRUCTURES DURING CONSTRUCTION. ALL DAMAGE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION SCHEDULE WITH THE CITY'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK SHALL CONFORM TO THE LINES, GRADES, AND TYPICAL DETAILS AS SHOWN ON THESE PLANS AND DELINEATIONS ON THE GROUND WITH NO VARIATIONS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL MATERIALS TESTING SHALL BE PROVIDED BY THE CONTRACTOR, AND APPROVED BY THE ENGINEER.
- EQUIPMENT TO BE INSTALLED BY OTHERS, NOT IN CONTRACT. EQUIPMENT FOOTING LOCATIONS TO BE ADJUSTED AS NEEDED IN FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE CITY ENGINEERING DEPARTMENT OR CITY SURVEYOR IN THE PRESERVATION OR PROTECTION OF SURVEY MONUMENTS, WHETHER SHOWN ON THE PLANS OR ENCOUNTERED DURING THE COURSE OF THE PROJECT.

IN CASES WHERE MONUMENTS HAVE BEEN IDENTIFIED IN ADVANCE BY THE CITY OR OTHERS, AND NOTED ON THE PLANS, CONTRACTOR SHALL MARK OR IDENTIFY LOCATIONS PRIOR TO ANY DISTURBANCE FOR PROTECTION OR PERPETUATION DURING THE PROJECT. MONUMENTS THAT WILL INEVITABLY BE DESTROYED DURING CONSTRUCTION AND ARE IDENTIFIED AS SUCH ON THE PLANS, SHALL BE RESET IN A SUITABLE MONUMENT BOX, IF APPLICABLE, OR THEIR LOCATION SHALL BE PERPETUATED. ALL EFFORTS SHOULD BE MADE TO PRESERVE AND WORK AROUND EXISTING MONUMENTS WHEN PRACTICAL.

ALL WORK INVOLVING INITIAL SEARCHING AND IDENTIFICATION OF MONUMENTS, INCLUDING THEIR SURVEYED LOCATIONS, IS TO BE DONE BY OR UNDER THE DIRECTION OF A LICENSED SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPLICABLE MUST BE FILED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S. ALL MONUMENTS RESET OR PERPETUATED MUST BE DONE BY OR UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR.

MONUMENTS NOT SHOWN ON PLANS THAT ARE ENCOUNTERED DURING THE PROJECT ARE TO BE PROTECTED. STOP WORK NEAR THE MONUMENT AND NOTIFY THE PROJECT ENGINEER. CONTRACTOR MUST ENLIST A LICENSED LAND SURVEYOR TO SURVEY THE EXISTING LOCATION OF THE MONUMENT AND SET REFERENCE POINTS AS NECESSARY TO PERPETUATE THE "FOUND POSITION" OF THE MONUMENT. A REPLACEMENT MONUMENT SHALL BE RESET AND DEPICTED ON A CORNER OF RECORD OR RECORD OF SURVEY, AS APPLICABLE. ANY ALTERNATIVE TO RESETTING A MONUMENT SHALL BE DETERMINED THROUGH COORDINATION WITH THE PROJECT ENGINEER AND CITY SURVEYOR.

COSTS ASSOCIATED WITH FAILURE TO COMPLY WITH THESE PROVISIONS WILL BE BORNE BY THE CONTRACTOR.

**UTILITY NOTES**

- THE CONTRACTOR SHALL COORDINATE UTILITY CONSTRUCTION WORK WITH THE OWNER OF SAID UTILITY.
- THE LAYOUT OF PIPING MAY BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITIONS WITH THE APPROVAL OF THE CITY'S REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE ALL FITTINGS, ELBOWS, ETC. AS REQUIRED TO PROVIDE A WORKING SYSTEM.
- ALL TIE-IN CONNECTIONS TO CITY UTILITIES SHALL BE COORDINATED WITH THE CITY'S REPRESENTATIVE.

**GRADING NOTES**

- DESIGN GRADES AND ELEVATIONS AVAILABLE FOR AWARDED CONTRACTOR
- ALL GRADING WORK SHALL FOLLOW THE SLOPES AND GRADES SHOWN ON THE GRADING AND DRAINAGE PLAN UNLESS OTHERWISE APPROVED BY THE CITY'S REPRESENTATIVE.
- ALL OFFSITE TRACKING OF MATERIAL SHALL BE SHOVELED AND SWEEPED ON A DAILY BASIS.

**TRAFFIC CONTROL NOTES**

- TRAFFIC SAFETY AND CONTROL MEASURES SHALL BE USED AS SET FORTH IN THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD), CURRENT EDITION.

**EROSION AND SEDIMENT CONTROL NOTES**

- EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO PROVISIONS SET FORTH IN THE FOLLOWING:
  - SECTION 21 "EROSION CONTROL" OF THE CALTRANS STANDARD SPECIFICATIONS, CURRENT EDITION.
  - CALTRANS CONSTRUCTION SITE BMP (BEST MANAGEMENT PRACTICES) FIELD AND TROUBLESHOOTING MANUAL, LATEST EDITION.
  - HYDROSEED ALL EXPOSED DISTURBED AREAS AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO MINIMIZE EROSION AND PREVENT THE MOVEMENT OF SEDIMENT AND / OR HARMFUL MATERIALS OFFSITE.
- THE CONTRACTOR SHALL UTILIZE THE FOLLOWING BMP'S (BEST MANAGEMENT PRACTICES) PER THE CALIFORNIA STORMWATER QUALITY ASSOCIATIONS, CALIFORNIA BMP HANDBOOK, LATEST EDITION, AT A MINIMUM AND AS REQUIRED:

EC-2	PRESERVATION OF EXISTING VEGETATION
EC-4	HYDROSEEDING
SE-1	SILT FENCE
SE-5	FIBER ROLLS
SE-7	STREET SWEEPING AND VACUUMING
NS-2	DEWATERING OPERATIONS
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
WM-1	MATERIALS DELIVERY AND STORAGE
WM-2	MATERIALS USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PROTECTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT

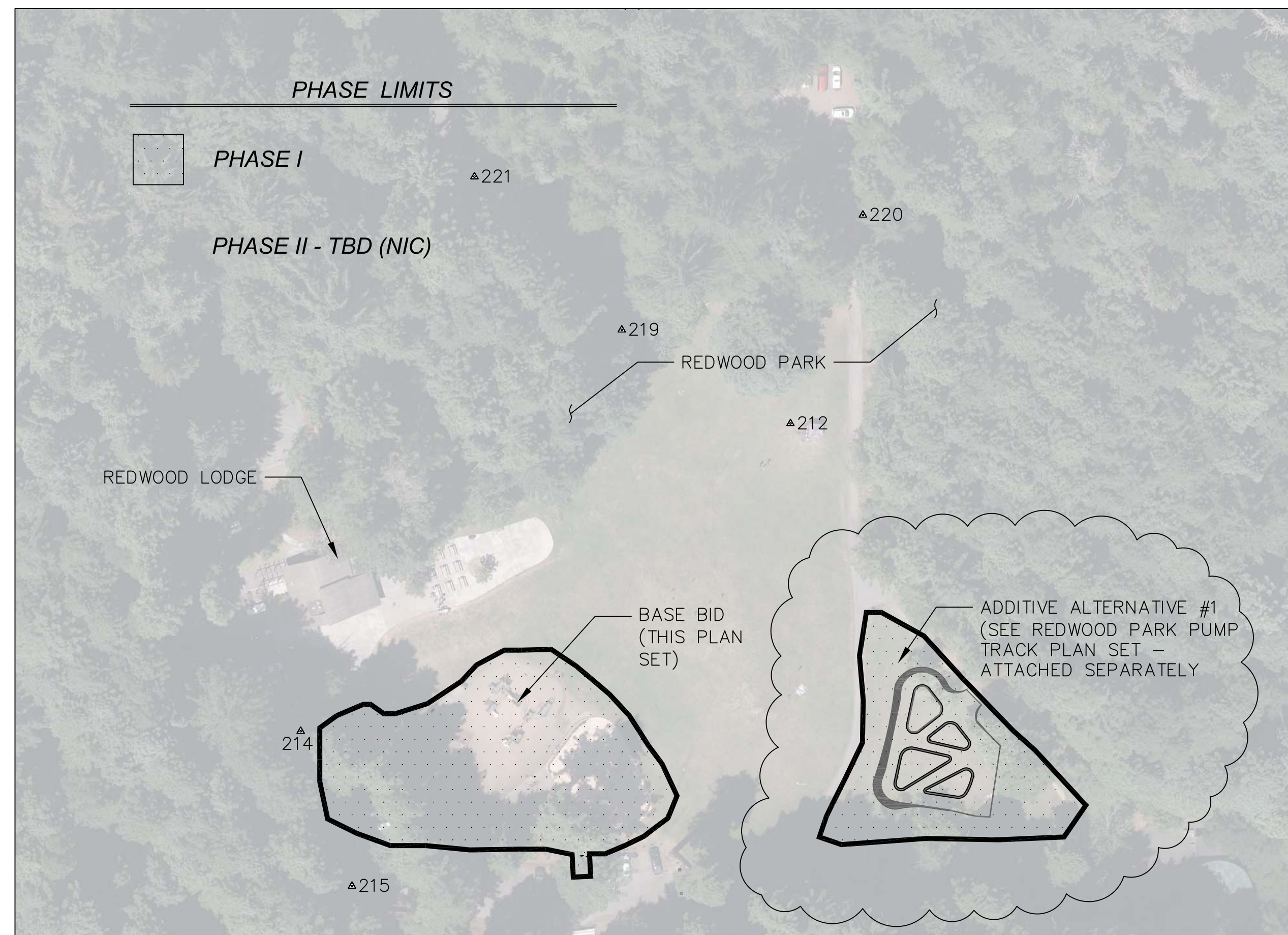
**UNDERGROUND FACILITIES NOTE**

INFORMATION PERTAINING TO EXISTING UNDERGROUND FACILITIES AS SHOWN HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA.

CALL USA: 811 (1-800-227-2600)

**CONTROL POINTS FROM POINTS WEST SURVEYING CO. OCTOBER 2015**

212	2206819.74	5988692.81	246.43	SET 12IN SPIKE
214	2206605.66	5988351.81	243.38	SET MAG NAIL
215	2206497.87	5988387.47	248.45	SET 12IN SPIKE
219	2206885.12	5988575.43	239.87	SET 12IN SPIKE
220	2206965.19	5988743.65	241.80	SET 12IN SPIKE
221	2206991.95	5988472.98	216.62	SET 12IN SPIKE



**ABBREVIATIONS**

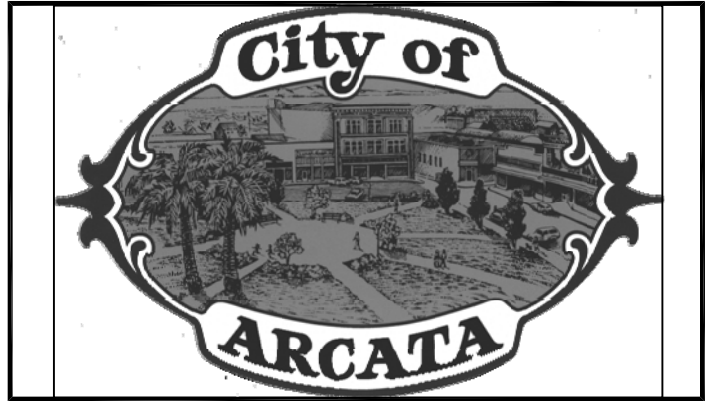
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE PAVING
AGG	AGGREGATE
@	AT
BFP	BACK FLOW PREVENTION DEVICE
BM	BENCHMARK
CL	CENTERLINE
CLR	CLEAR
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
COR	CORNER
CP	CONTROL POINT
CV	CHECK VALVE
DA, Ø	DIAMETER
<E>	EXISTING
EA	EACH
EL/ELEV	ELEVATION
E OHD	OVERHEAD ELECTRICAL LINES
FG	FINISH GRADE
FL	FLOW LINE
FT	FOOT OR FEET
FTG	FOOTING
GALV	GALVANIZED
GB	GRADE BREAK
GR	GRADE
GRD	GROUND
GV	GATE VALVE
IE	INVERT ELEVATION
IP	IRON PIPE
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PL	PROPERTY LINE
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE PIPE
R/W	RIGHT-OF-WAY
SIM	SIMILAR
SS	SANITARY SEWER
TC	TOP OF CURB
TYP	TYPICAL
W	WATER
WV	WATER VALVE

**LEGEND**

SS	(E) GRAVITY SEWER LINE
⊙	(E) SEWER MANHOLE
⊙	(N) DRAIN CLEANOUT
⊙	(E) SEWER CLEANOUT
●	(N) STORM DRAIN CLEANOUT
—OHE—	(E) OVERHEAD ELECTRICAL
—UE—	(E) UNDERGROUND ELECTRICAL
⊙	(E) LIGHT POLE
⊙	(E) PULL BOX
⊙	SURVEY CONTROL POINT
⊙	SURVEY MONUMENT
⊙	(E) STREET SIGN
⊙	(N) STREET SIGN
—W—	(E) WATER MAIN / SERVICE
—W— W —	(N) WATER MAIN / SERVICE
—IR— IR —	(N) IRRIGATION MAIN / SERVICE
⊙	(E) WATER METER
⊙	(E) WATER VALVE
⊙	(E) IRRIGATION QUICK-COUPLE HOSE CONNECT
⊙	(E) BACK FLOW PREVENTER
—X—X—X—X—X—	(E) FENCE
—X—X—	(N) FENCE
—	(E) ASPHALT PAVING
—	(E) VEGETATION LINE
///	BOUNDARY RIGHT OF WAY LINES
—	EASEMENTS
—	DRAINAGE FLOW LINES
—	(N) DRAINAGE FLOW LINES
—	(N) EQUIPMENT FOOTING
—	EXISTING GROUND CONTOURS
—	(E) TREE
—	LIMITS OF DISTURBANCE
—	(N) ASPHALT CONCRETE
—	(N) LANDSCAPING
—	(N) DETECTABLE WARNINGS
—	(N) LID/DRAIN FEATURE



No.	Revision/Issue	Date



**NOTES**

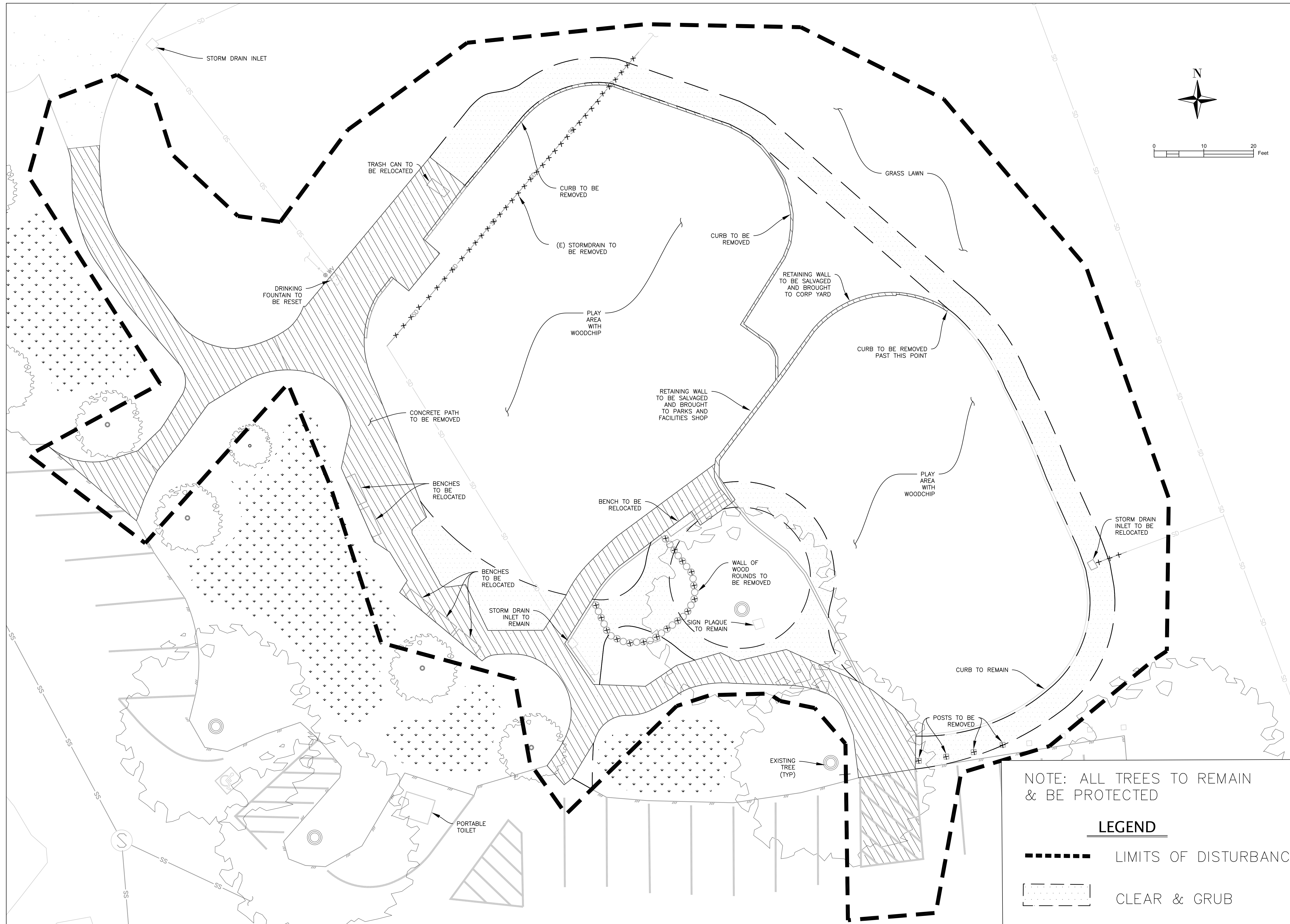
Project Name: **REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I**

Project Address: 490 PARK RD

Designed By: MAKANI AIU  
 Drawn By: MAKANI AIU  
 Checked By: DAVID CAISSE, RCE # 80962  
 Approved By: N. B. KHATRI, RCE #75428

Date: 2/24/2023  
 Scale: NTS  
 Sheet: G-002  
 SHEET 2 OF 8 SHEETS





**EXISTING SITE CONDITIONS AND DEMO PLAN**  
SCALE: 1"=10'

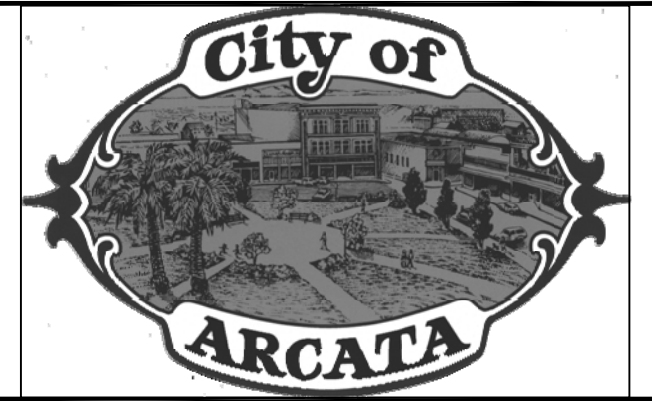
NOTE: ALL TREES TO REMAIN & BE PROTECTED

**LEGEND**

- LIMITS OF DISTURBANCE
- CLEAR & GRUB
- /// REMOVE CONCRETE / AC



No.	Revision/Issue	Date



**EXISTING SITE CONDITIONS AND DEMOLITION PLAN**

Project Name  
**REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I**

Project Address  
490 PARK RD

Designed By  
MAKANI AIU

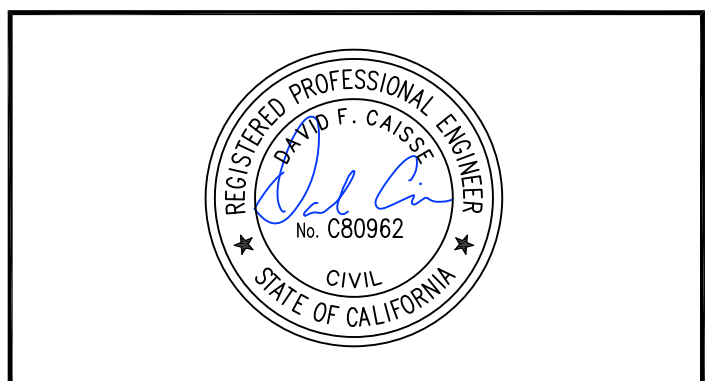
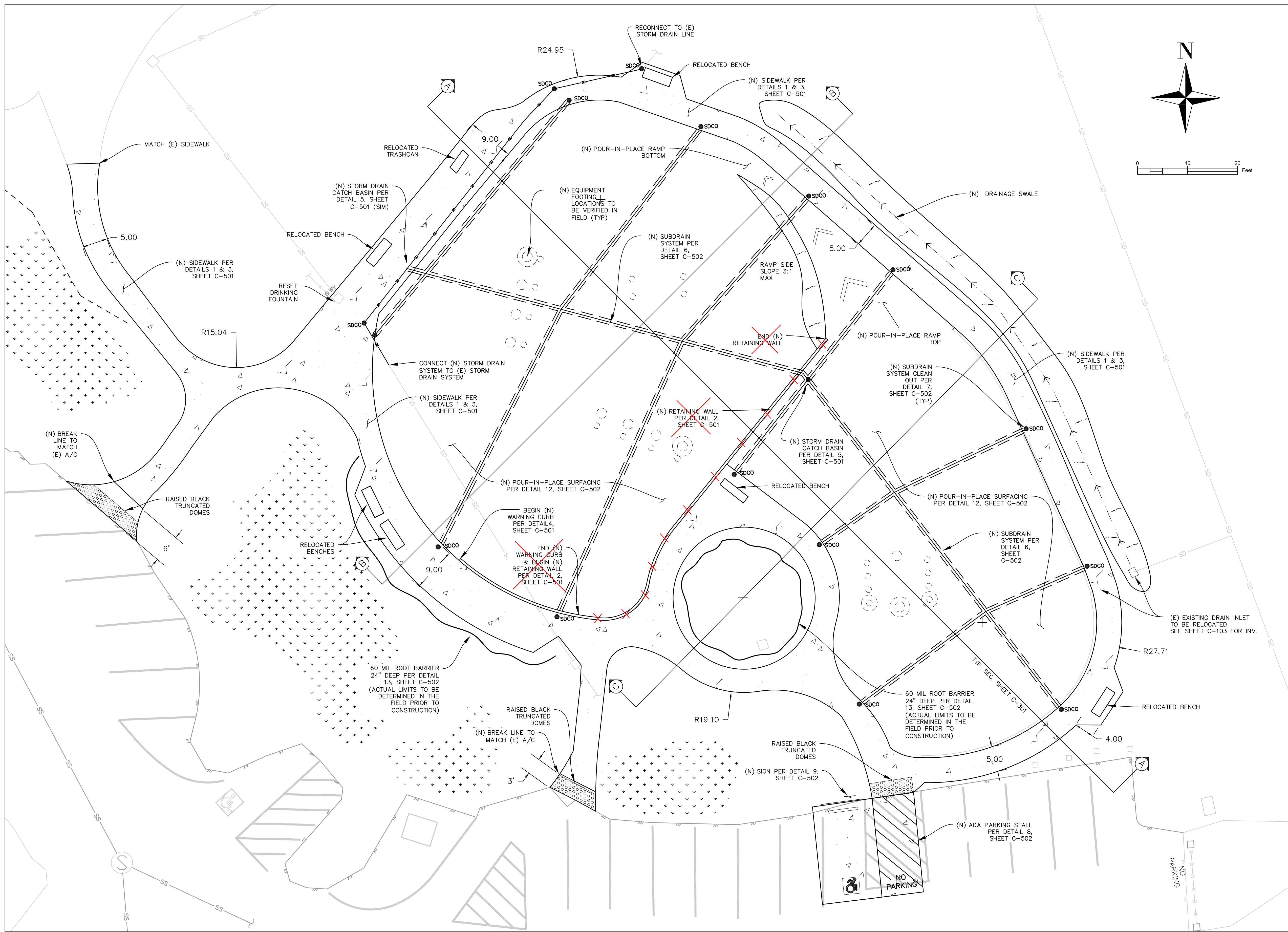
Drawn By  
MAKANI AIU

Checked By  
DAVID CAISSE, RCE # 80962

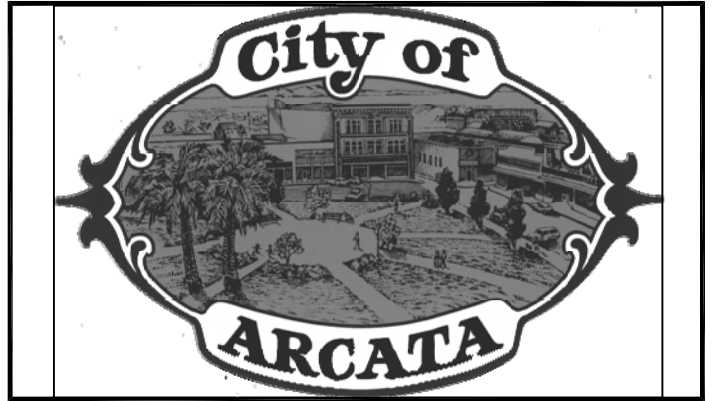
Approved By  
N. B. KHATRI, RCE #75428

Date 2/24/2023	Sheet C-101
Scale 1"=10'	





No.	Revision/Issue	Date



**SITE PLAN**

Project Name  
**REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I**

Project Address  
490 PARK RD

Designed By  
MAKANI AIU

Drawn By  
MAKANI AIU

Checked By  
DAVID CAISSE, RCE # 80962

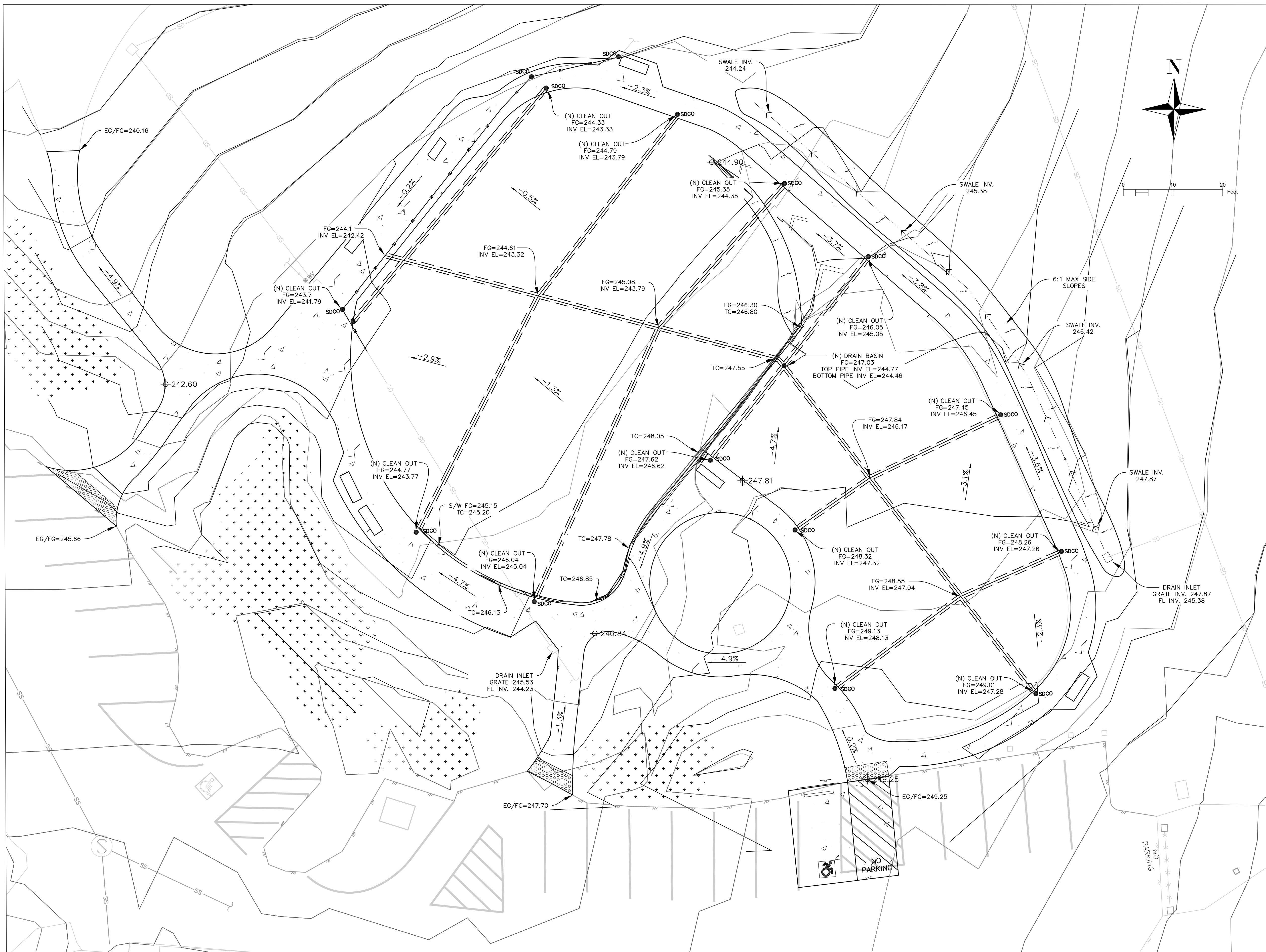
Approved By  
N. B. KHATRI, RCE #75428

Date 2/24/2023	Sheet C-102
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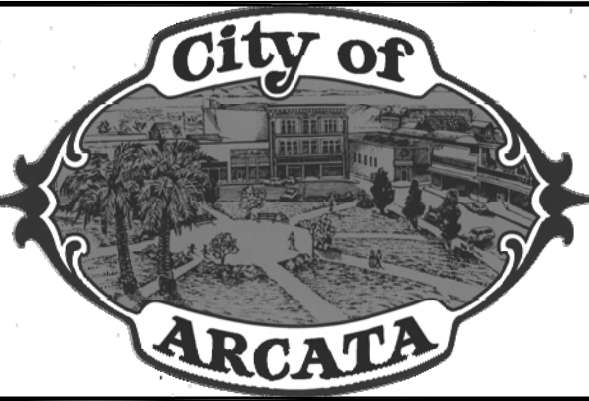
SHEET 4 OF 8 SHEETS

**SITE PLAN**  
SCALE: 1"=10'





No.	Revision/Issue	Date



**GRADING AND DRAINAGE PLAN**

**REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I**

Project Address: 490 PARK RD

Designed By: MAKANI AIU

Drawn By: MAKANI AIU

Checked By: DAVID CAISSE, RCE # 80962

Approved By: N. B. KHATRI, RCE #75428

Date: 2/24/2023 Sheet: C-103

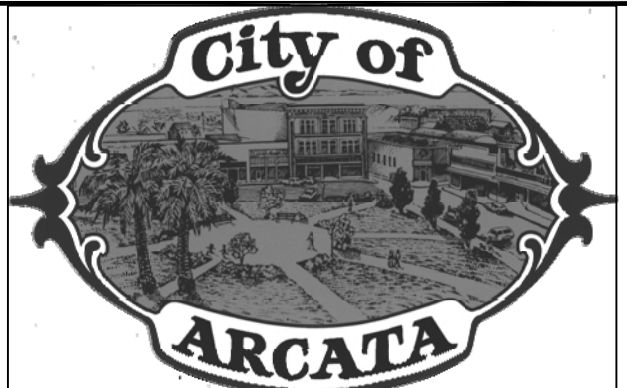
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**GRADING AND DRAINAGE PLAN**  
SCALE: 1"=10'



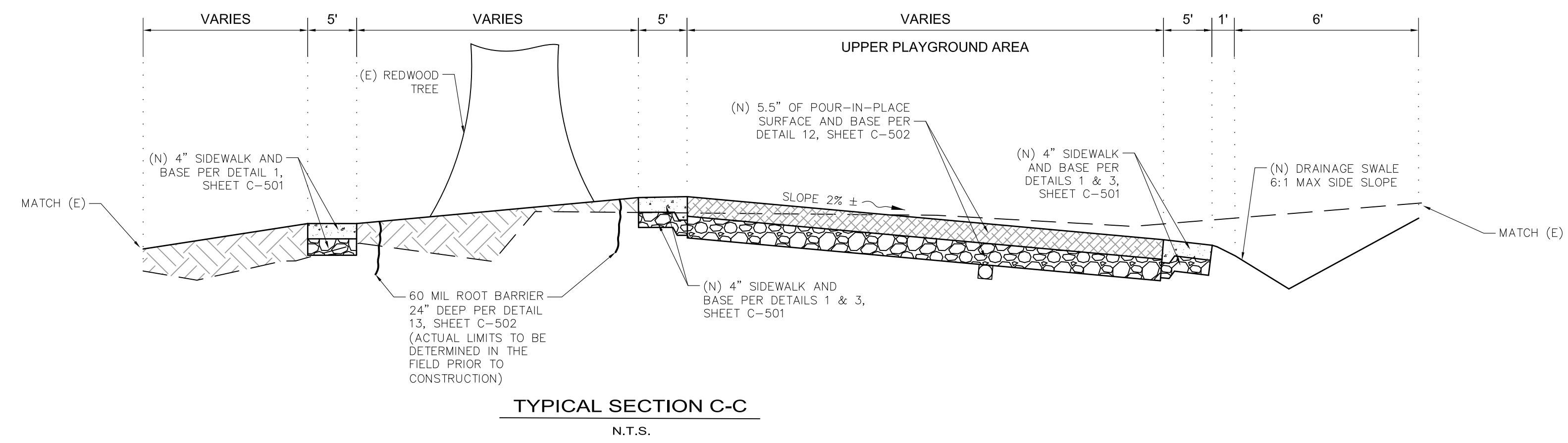
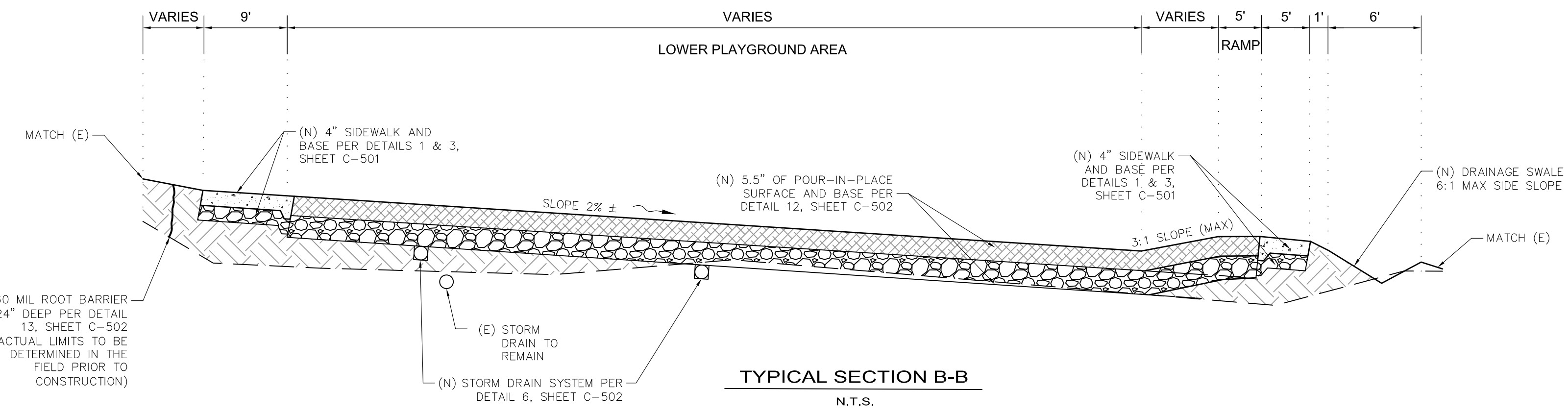
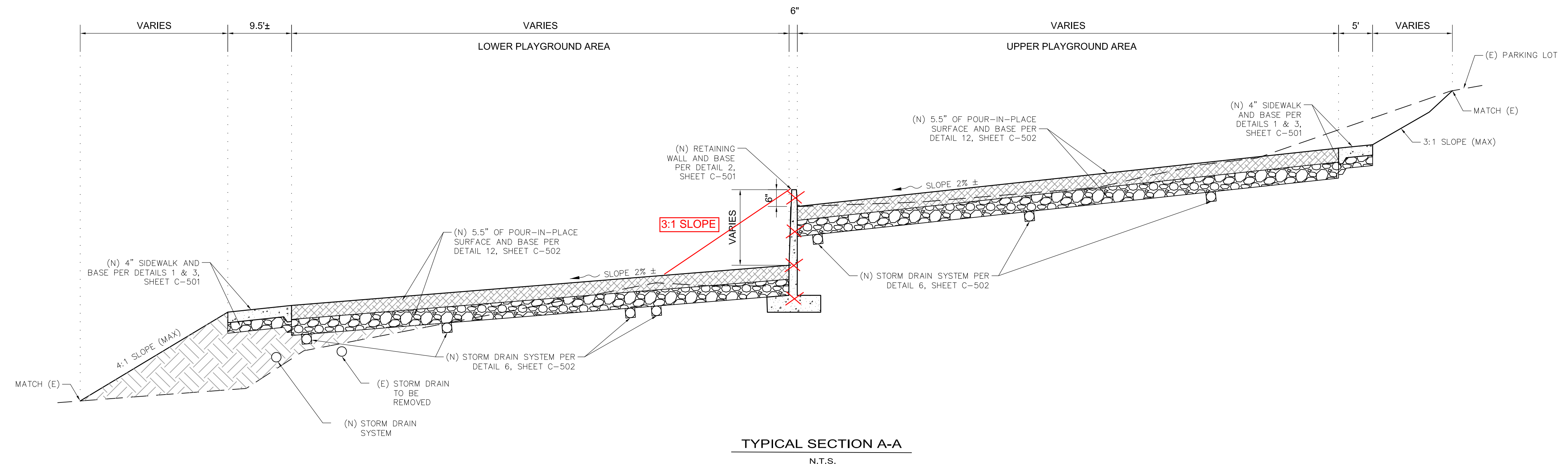


No.	Revision/Issue	Date



**TYPICAL SECTIONS**

REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I



NOTE: CROSS SLOPES ON ALL WALKWAYS SHALL NOT EXCEED 1.5%

Project Address: 490 PARK RD

Designed By: MAKANI AIU

Drawn By: MAKANI AIU

Checked By: DAVID CAISSE, RCE # 80962

Approved By: N. B. KHATRI, RCE #75428

Date: 2/24/2023 Sheet: C-301

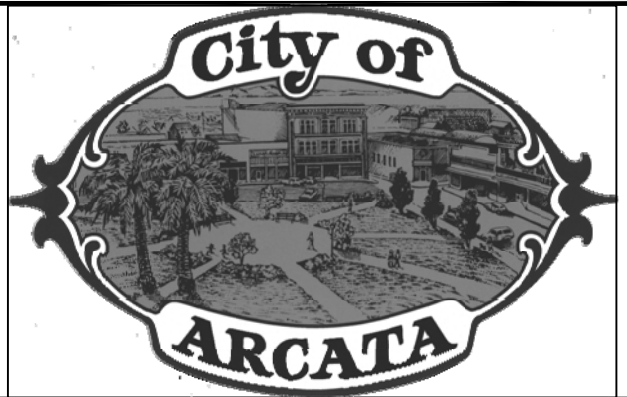
Scale: NTS

SHEET 6 OF 8 SHEETS





No.	Revision/Issue	Date



**STANDARD DETAILS**

Project Name  
**REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I**

Project Address  
490 PARK RD

Designed By  
MAKANI AIU

Drawn By  
MAKANI AIU

Checked By  
DAVID CAISSE, RCE # 80962

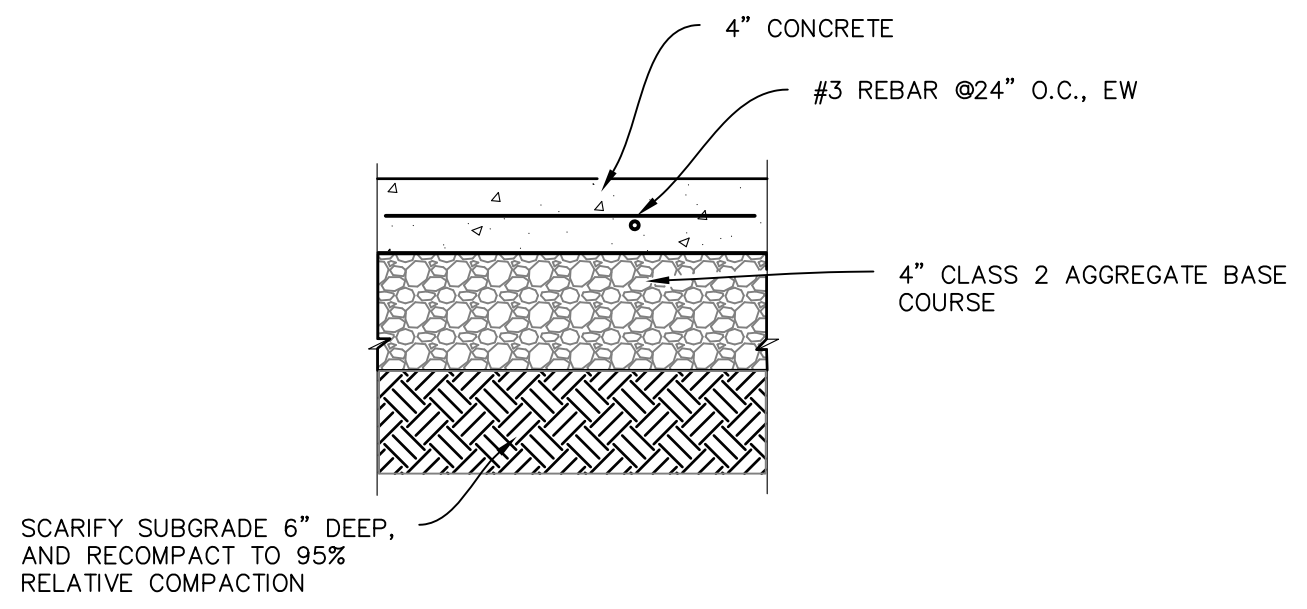
Approved By  
N. B. KHATRI, RCE #75428

Date  
2/24/2023

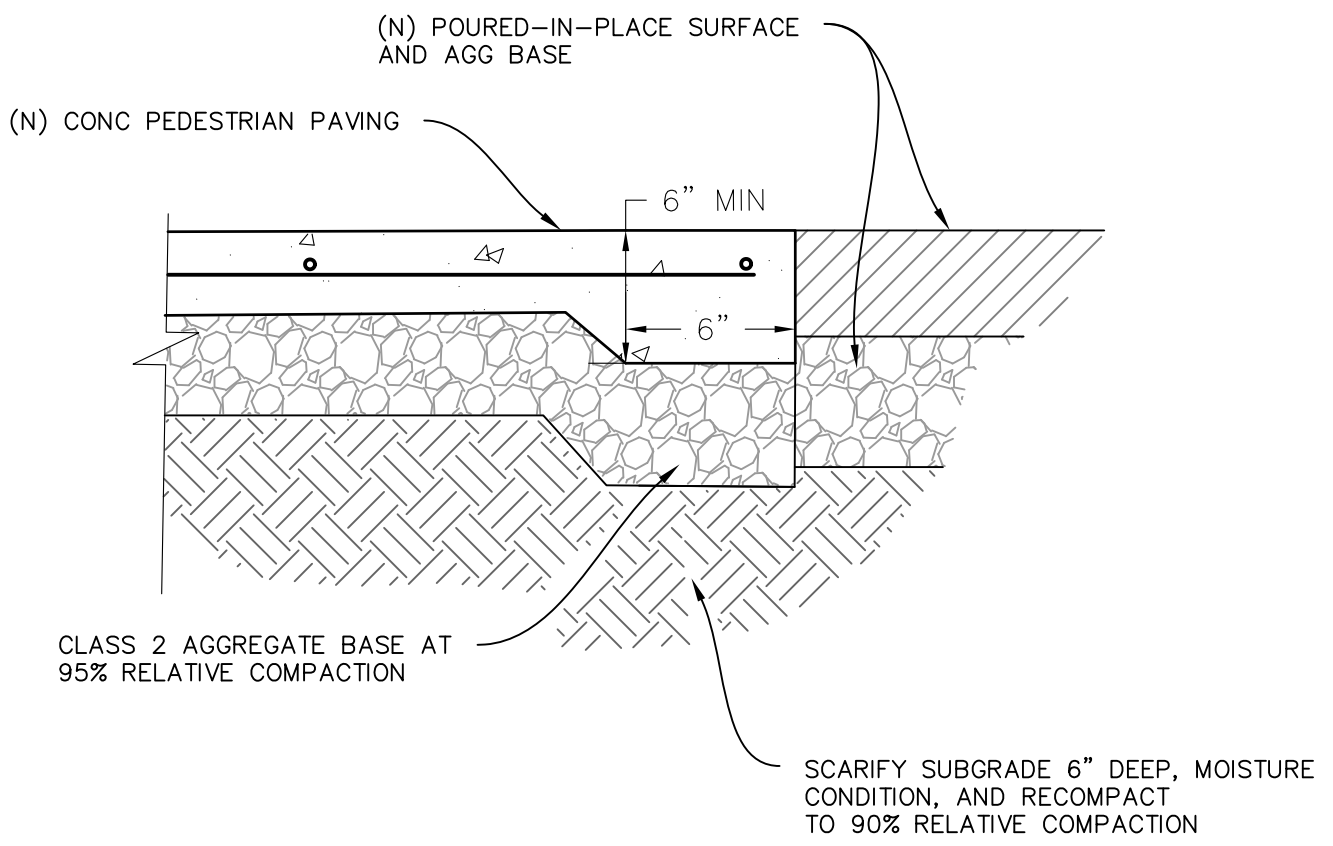
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Sheet  
C-501

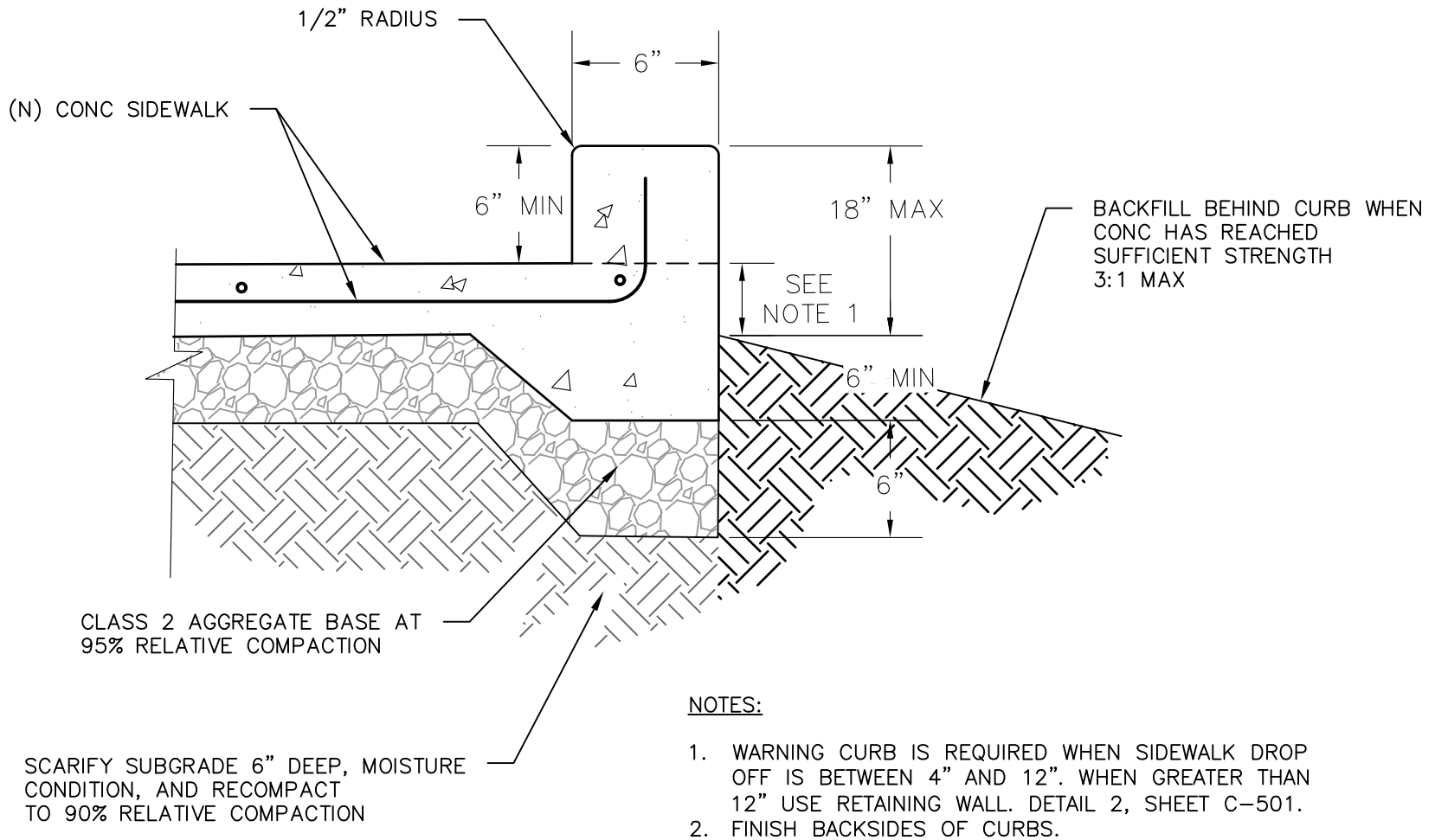
SHEET 7 OF 8 SHEETS



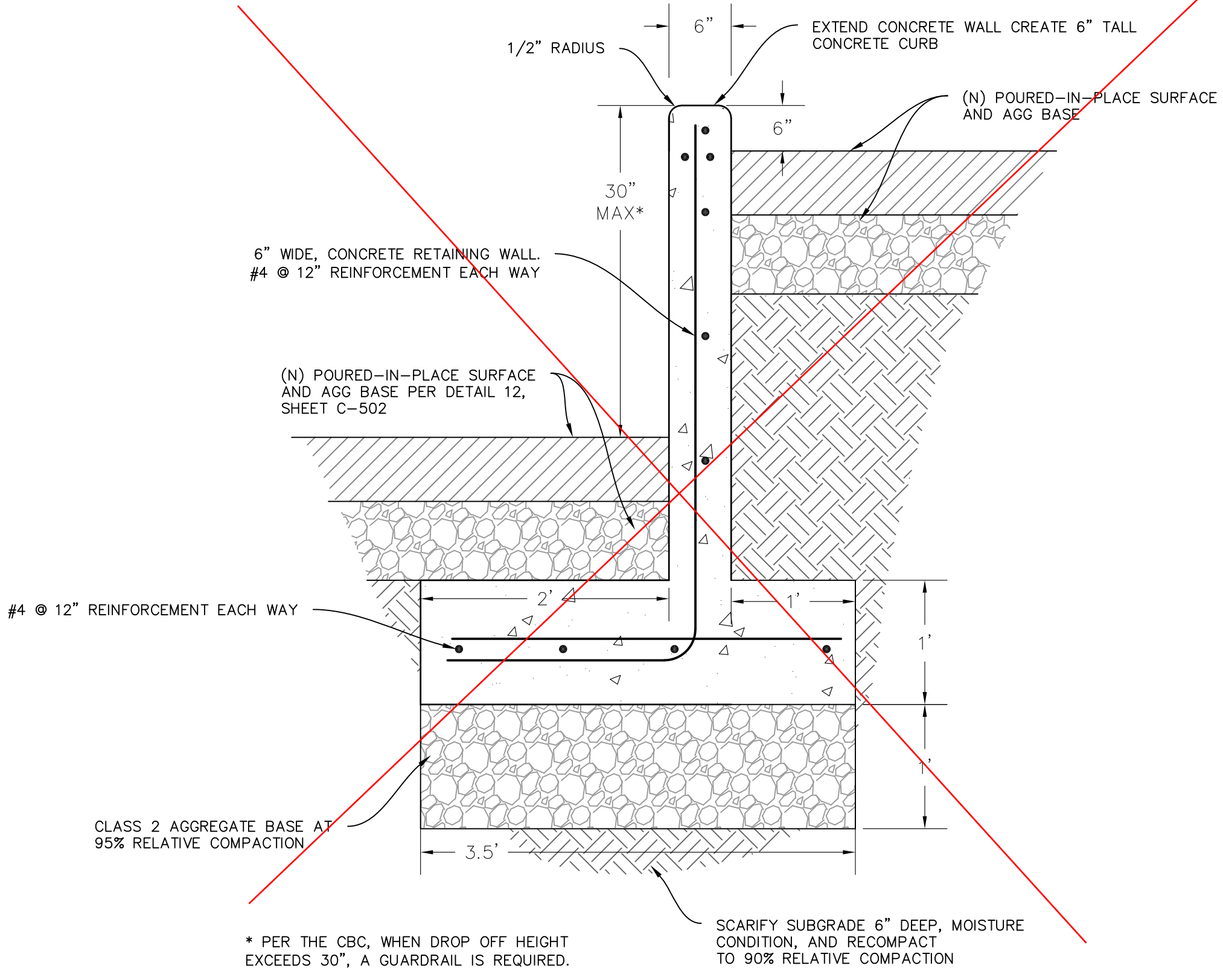
**1 TYPICAL CONCRETE PEDESTRIAN PAVING**  
N.T.S.



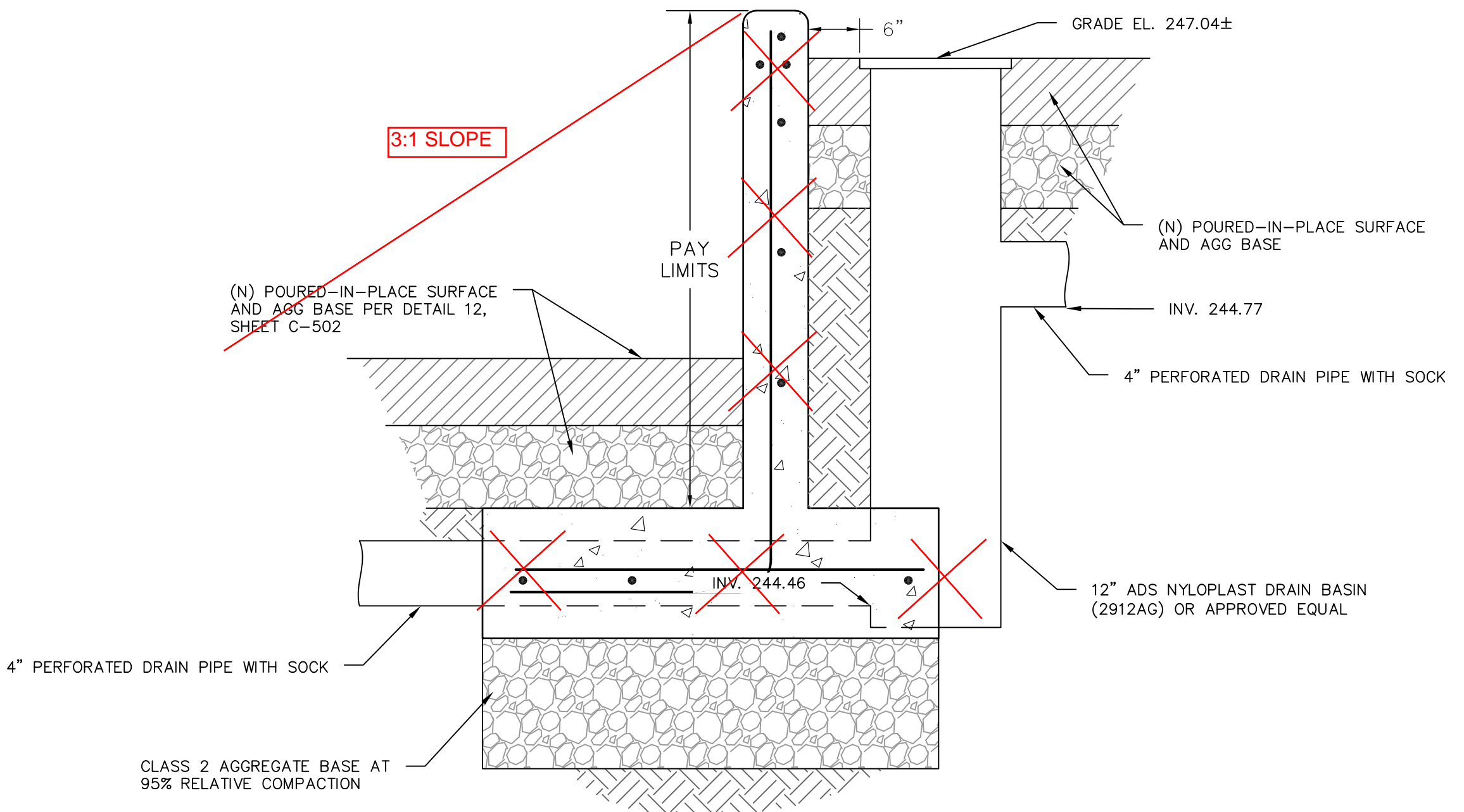
**3 THICKENED EDGE DETAIL**  
N.T.S.



**4 WARNING CURB DETAIL**  
N.T.S.

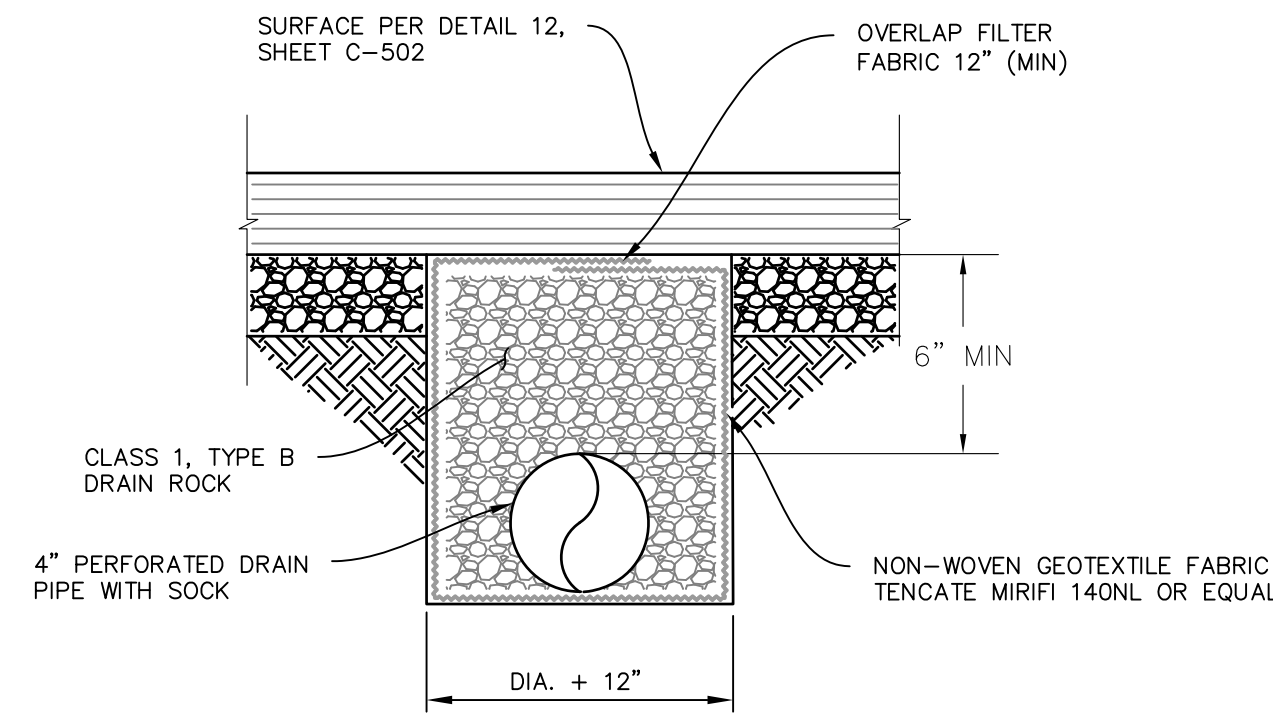


**2 RETAINING WALL DETAIL**  
N.T.S.

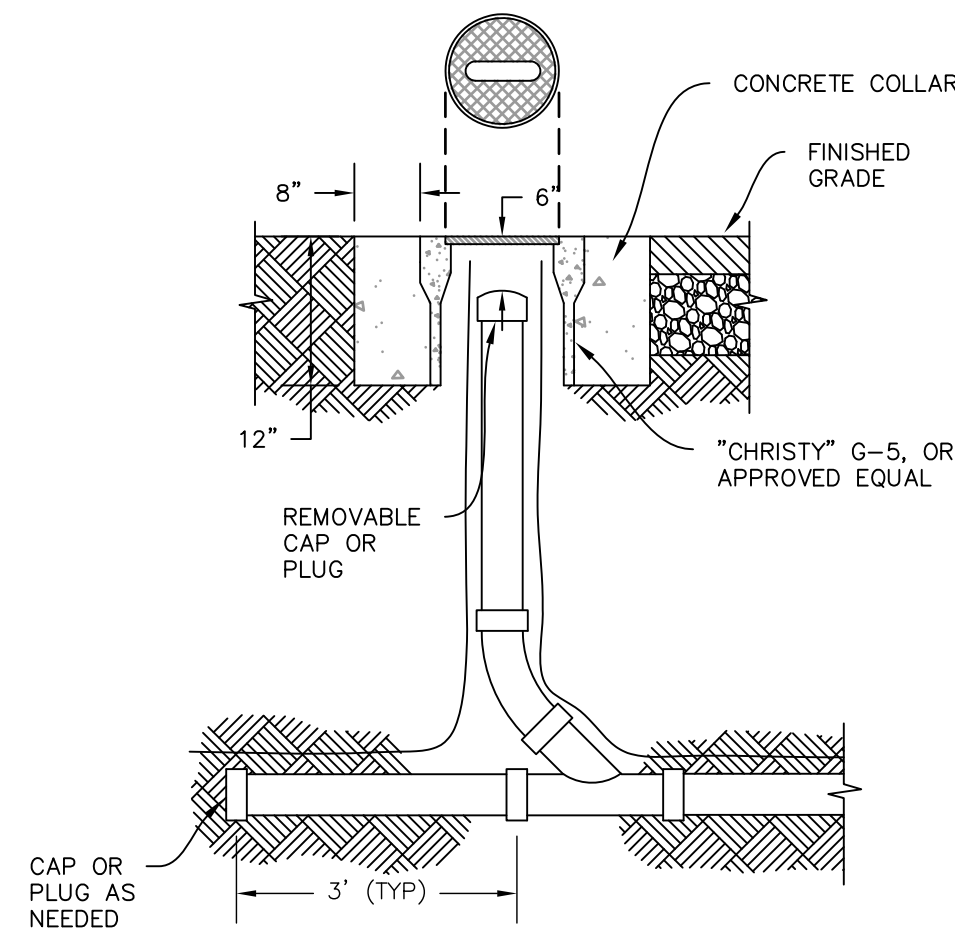


**5 RETAINING WALL DRAIN CATCH BASIN DETAIL**  
N.T.S.

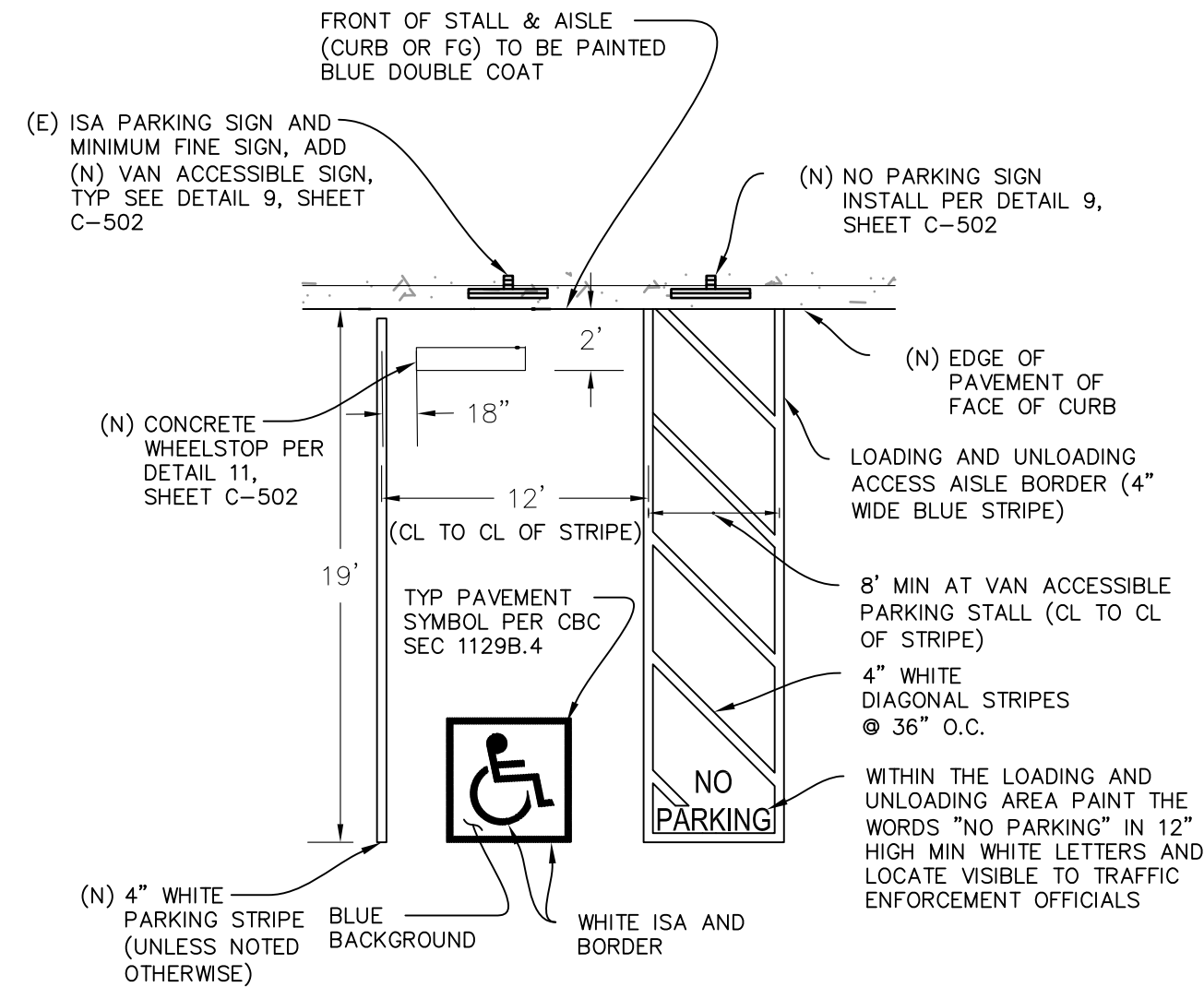




**6** TYPICAL PLAYGROUND SUBDRAIN DETAIL  
N.T.S.



**7** TYPICAL CLEANOUT DETAIL (COA SS 04)  
N.T.S.



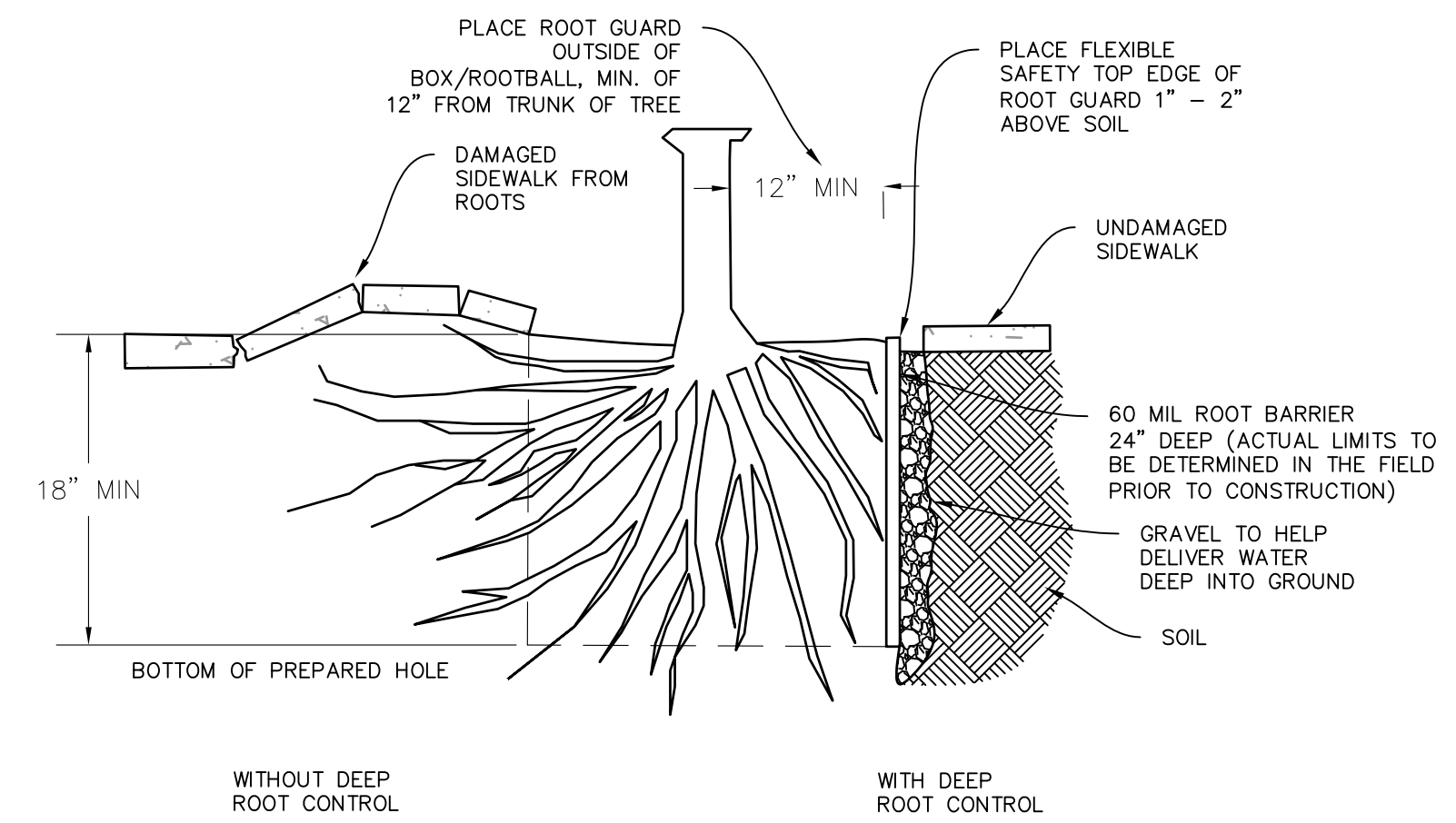
- NOTES:**
1. ACCESSIBLE PARKING STALLS, ACCESS AISLES AND SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE CBC (CURRENT EDITION).
  2. VAN ACCESSIBLE PARKING STALLS SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE. THE R7-BB SIGN SHALL BE MOUNTED BELOW THE R99C SIGN.
  3. WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 8'-0" WIDE MINIMUM, AND SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
  4. SURFACE SLOPES OF ACCESSIBLE PARKING STALLS SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION.
  5. ALL ACCESSIBLE PARKING STRIPING AND MARKINGS SHALL BE PAINT PER CALTRANS STANDARD SPECIFICATIONS.

**8** TYPICAL ADA PARKING STALL  
N.T.S.

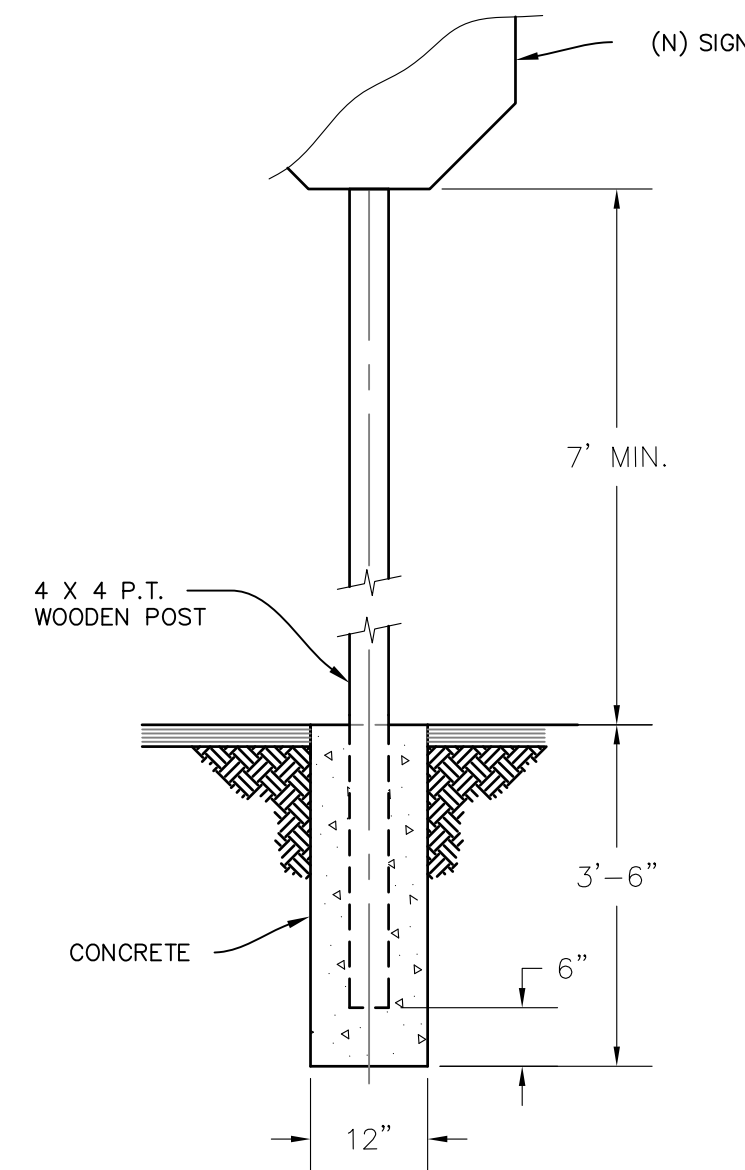


**9** ACCESSIBLE PARKING SIGNS  
N.T.S.

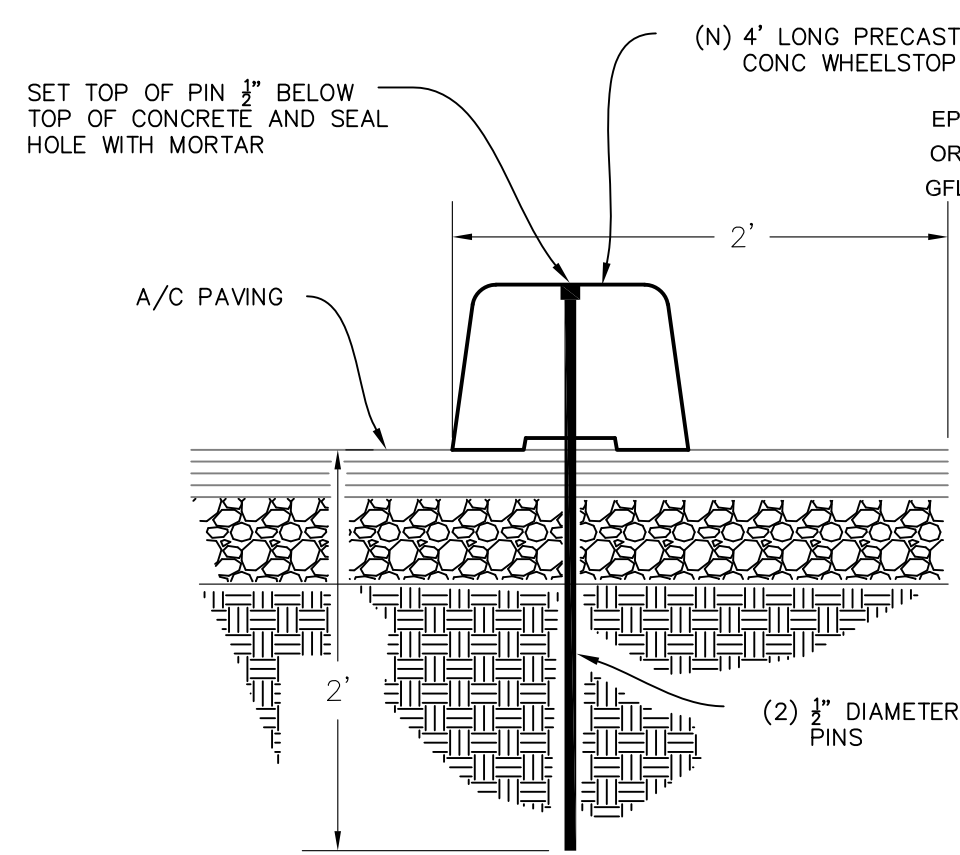
- NOTES:**
1. ACCESSIBLE PARKING SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE CBC (CURRENT EDITION) AND THE DETAILS SHOWN ON THIS DRAWING.
  2. THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
  3. SIGN PANELS SHALL BE REFLECTORIZED, 16 GA MIN GALV STL WITH PORCELAIN ENAMEL FINISH, ANTI-GRAFFITI COATING, AND WHITE LETTERS/SYMBOLS ON A BLUE BACKGROUND. THE BLUE COLOR SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595A.
  4. INSTALL SIGNS ON POST PER DETAIL 9, SHEET C-502



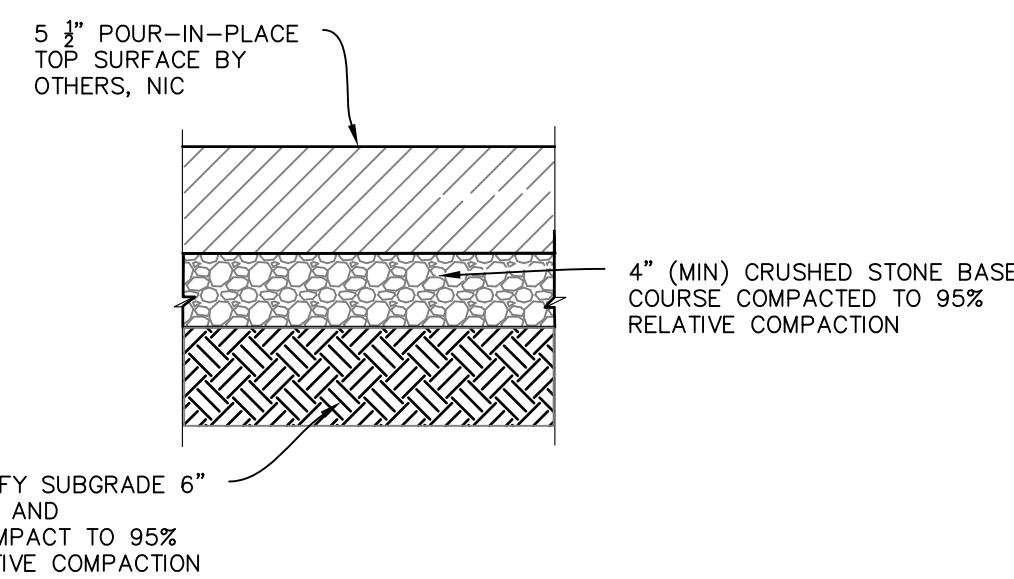
**13** TYPICAL ROOT BARRIER  
N.T.S.



**10** SIGN POST & FOUNDATION DETAIL  
N.T.S.



**11** TYPICAL CONCRETE WHEELSTOP  
N.T.S.



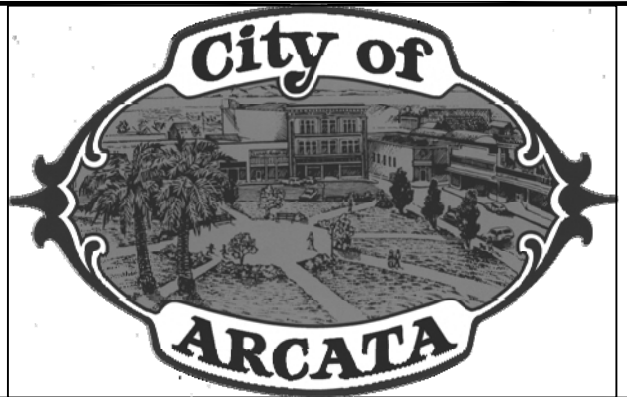
**12** TYPICAL POUR-IN-PLACE SURFACE DETAIL  
N.T.S.

**CRUSHED STONE BASE COURSE SPECIFICATIONS**

SIEVE SIZE	% PASSING BY WEIGHT
1"	90-100
3/4"	50-80
3/8"	30-50
#4	15-35
#8	10-30
#30	3-5
#200	0-3



No.	Revision/Issue	Date



STANDARD DETAILS

REDWOOD PARK IMPROVEMENT PROJECT 2023 PHASE I

Project Address  
490 PARK RD

Designed By  
MAKANI AIU

Drawn By  
MAKANI AIU

Checked By  
DAVID CAISSE, RCE # 80962

Approved By  
N. B. KHATRI, RCE #75428

Date  
2/24/2023

Scale  
NTS

Sheet  
C-502

SHEET 8 OF 8 SHEETS