

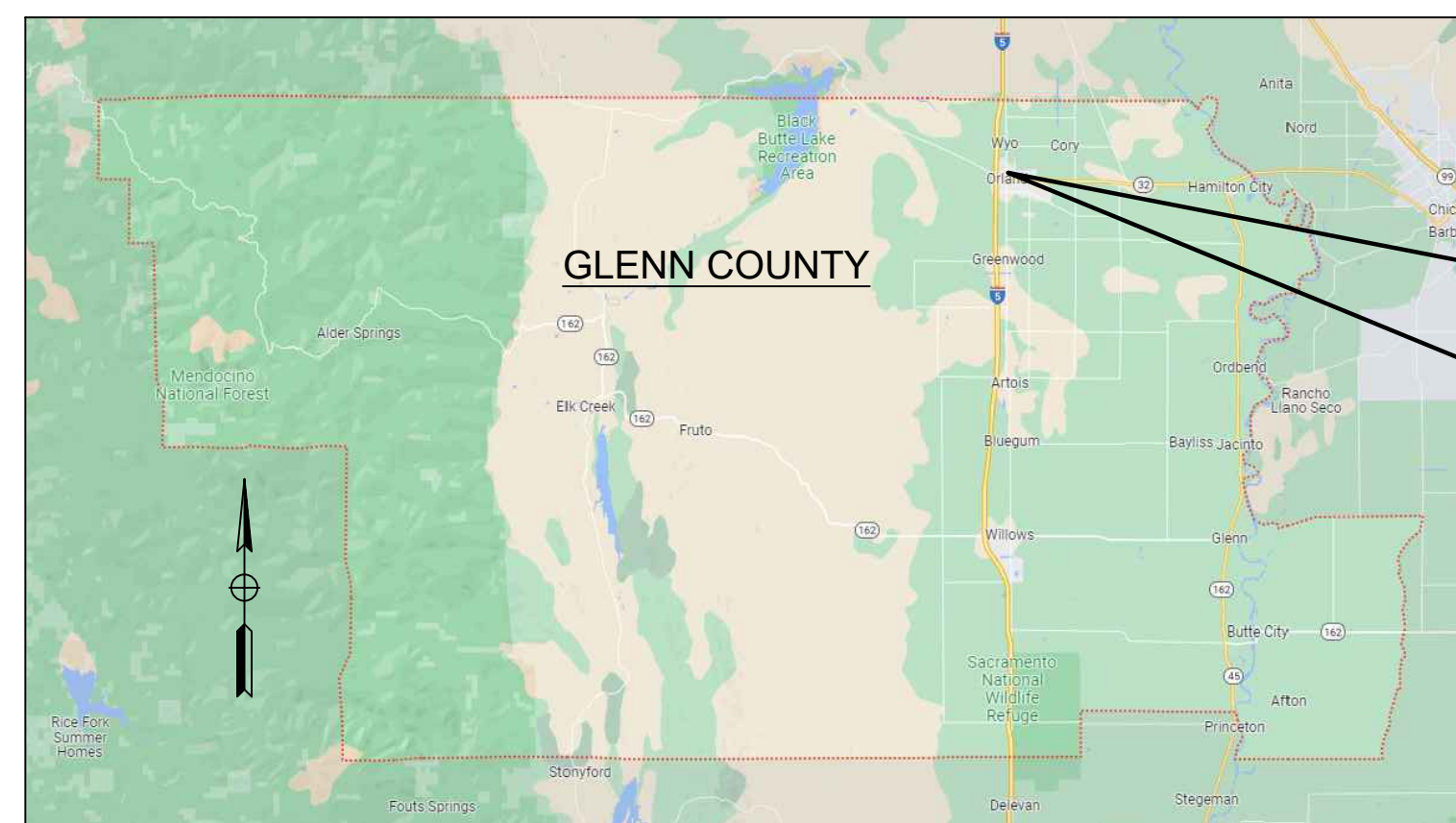
# COUNTY OF GLENN

## CONSTRUCTION PLANS

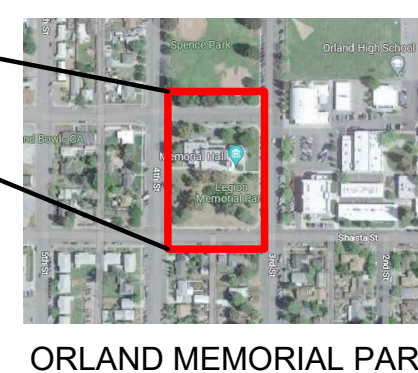
FOR

## ORLAND MEMORIAL PARK

## ACCESSIBILITY AND BEAUTIFICATION PROJECT



VICINITY MAP  
NOT TO SCALE



ORLAND MEMORIAL PARK



### ABBREVIATIONS

APPROX	APPROXIMATE	MAX	MAXIMUM
AB	AGGREGATE BASE	MIN	MINIMUM
BC	BEGIN CURVE	NO.	NUMBER
BEG	BEGIN	OG	ORIGINAL GROUND
C	CUT	PG	PROFILE GRADE
CMP	CORRUGATED METAL PIPE	POB	POINT OF BEGINNING
CONC	CONCRETE	POE	POINT OF END
DG	DECOMPOSED GRANITE	POT	POINT ON TANGENT
EC	END CURVE	PVMT	PAVEMENT
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	REINF	REINFORCING
F	FILL	RT	RIGHT
FG	FINISHED GRADE	SDWK	SIDEWALK
HPI	HORIZONTAL POINT INTERSECTION	SHLD	SHOULDER
HMA	HOT MIX ASPHALT	TYP	TYPICAL
HORIZ	HORIZONTAL	VERT	VERTICAL
LT	LEFT	VPI	VERTICAL POINT OF INTERSECTION

### LEGEND

—OHT—	OHT	OVERHEAD TELEPHONE
—FO—	FO	USA FIBER OPTIC
—OHE—	OHE	OVERHEAD ELECTRICAL

### CONTRACTOR GENERAL NOTES:

- UNLESS OTHERWISE AS WRITTEN IN THE SPECIFICATIONS, SPECIAL PROVISIONS, ALL WORK SHALL CONFORM TO THE APWA "GREENBOOK" STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, INCLUDING SUPPLEMENTS.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE COMPLETED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION COSTS OF ALL EXISTING UTILITIES. CONTRACTOR MUST INFORM COUNTY OF CONSTRUCTION SCHEDULE AT LEAST TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION.
- NO TRENCHES MAY BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY COUNTY ENGINEER.
- IF ANY UTILITIES OR FACILITIES CONFLICT WITH PROPOSED IMPROVEMENTS, ALL WORK SHALL STOP, AND THE COUNTY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- DRIVEWAY LOCATION INFORMATION IS TO BE FIELD VERIFIED AND APPROVED BY COUNTY ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES WITHIN THE LIMITS OF WORK OF THE PROPOSED IMPROVEMENTS, AND IN THE EVENT OF SUBSTRUCTURE DAMAGE, HE SHALL BEAR THE TOTAL COST OF REPAIR OR REPLACEMENT AT NO ADDITIONAL COST TO CONTRACT.
- THE CONTRACTOR SHALL NOT CONDUCT ANY OPERATIONS OR PERFORM ANY WORK PERTAINING TO THE PROJECT BETWEEN 9:00 P.M. AND 5:00 A.M. ON ANY DAY NOR ON SATURDAYS, SUNDAYS (EXCEPT AT NIGHT) OR HOLIDAYS, AT ANY TIME EXCEPT AS APPROVED BY THE COUNTY ENGINEER.
- SEE DEMOLITION PLAN FOR INFORMATION REGARDING EXISTING TREES TO BE PROTECTED IN PLACE AND TO BE REMOVED.
- THE CONTRACTOR IS ADVISED THAT ALL EXCAVATED MATERIALS SHALL BECOME HIS PROPERTY AND SHALL BE REMOVED FROM THE JOB-SITE UNLESS INSTRUCTED BY THE COUNTY ENGINEER TO DO OTHERWISE.
- THE CONTRACTOR SHALL RELOCATE/ADJUST EXISTING UTILITY BOXES, VALVES, AND VAULTS TO GRADE, AND THE COSTS ARE TO BE DISTRIBUTED AMONG VARIOUS ITEMS ON THE BID SCHEDULE.
- THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR THE COMPLETION OF THE PROPOSED IMPROVEMENTS PER THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), SPECIAL PROVISIONS, AND TO THE SATISFACTION OF THE COUNTY ENGINEER. THE CONTRACTOR WILL BE ALLOWED TO CLOSE LANES WITHIN THE PROJECT AREA ONLY WITHIN THE HOURS STATED IN THE PROJECTS SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL PROVIDE A 72-HOUR NOTIFICATION TO THE AFFECTED PROPERTIES, POLICE DEPARTMENT, AND FIRE DEPARTMENT IN THE EVENT OF A CHANGE IN STREET CLOSURE TO TRAFFIC AND/OR PUBLIC SAFETY VEHICLES, PARKING RESTRICTIONS, AND ON EACH MONDAY MORNING DURING THE CONSTRUCTION PERIOD.
- ALL PORTLAND CEMENT CONCRETE (P.C.C.) AND ASPHALTIC CONCRETE (A.C.) SHALL BE REMOVED TO A SAWCUT AND/OR EXISTING CONTROL JOINTS.
- CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT ALL TIMES.
- RECORD DRAWINGS OF THE COMPLETED PROJECT SHALL BE SUBMITTED FOR APPROVAL BY THE COUNTY ENGINEER.
- CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (DIG ALERT) AT 811 TWO (2) FULL WORKING DAYS PRIOR TO START OF WORK. CONTRACTOR MUST OBTAIN AND MAINTAIN VALID DIG ALERT REFERENCE NUMBER THROUGH THE DURATION OF THE PROJECT AS NECESSARY FOR CONSTRUCTION. UPON EXPOSING ANY UTILITY'S UNDERGROUND FACILITY THE CONTRACTOR SHALL NOTIFY THAT UTILITY IMMEDIATELY.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCURRED DUE TO THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- IF REQUIRED, CONTRACTOR SHALL PREPARE A WET WEATHER EROSION CONTROL PLAN DELINEATING BMPs TO BE INSTALLED PER NPDES, SWPPP, SUSMP, AND LID LOCAL, STATE, AND FEDERAL REGULATIONS TO BE APPROVED BY THE COUNTY ENGINEER PRIOR TO THE START OF CONSTRUCTION

### HOLD HARMLESS INDEMNIFICATION CLAUSE:

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING THE 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 COUNTY OF GLENN AND THE PRIVATE ENGINEERS HARMLESS FOR ANY AND ALL LIABILITY; REAL OR ALLEGED, IN CONNECTIONS WITH PERFORMANCE OF WORK ON THIS PROJECT. OFF-SITE DISPOSAL OF LANDSCAPE DEBRIS, IRRIGATION MATERIAL, SOIL EXCAVATION MATERIAL, AND UNCLASSIFIED EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS BID. THE CONTRACTOR SHALL HOLD THE COUNTY AND ENGINEER HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM ACTIONS EN-ROUTE TO OR AWAY FROM THE SITE.

### UTILITY AND STRUCTURE NOTICE TO CONTRACTOR:

ALL KNOWN EXISTENCE AND LOCATION OF ANY AERIAL UTILITIES OR ON GRADE STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE COUNTY AND ENGINEER ASSUME NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES, UTILITIES, STRUCTURES, AND IRRIGATION WATER SUPPLY LINES WHOSE LOCATION ARE SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND WATER PURVEYOR COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES, STRUCTURES, AND LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OCCURRED TO THESE LINES.

### GENERAL NOTES:

- APPROVAL OF THESE PLANS BY THE COUNTY OF GLENN DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE WITHIN THE LIMITS OF THE PROJECT.
- THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION FOR THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

### SHEET INDEX

SHEET NO.	PLAN NO.	DESCRIPTION
1	T-1	TITLE SHEET
2	DC-1	DEMOLITION AND CONSTRUCTION PLAN
3	C-1	CIVIL SITE PLAN
4	C-2	CURVE & LINE DATA AND RAMP DETAILS
5	C-3	CONSTRUCTION DETAILED LAYOUTS
6	C-4	CONSTRUCTION DETAILED LAYOUTS
7	IP-1	IRRIGATION PLAN
8	IP-2	IRRIGATION LEGEND AND NOTES
9	PP-1	PLANTING PLAN
10	E-1	LIGHTING PLAN
11	E-2	ELECTRICAL DETAILS
12	CD-1	CONSTRUCTION DETAILS
13	CD-2	CONSTRUCTION DETAILS
14	CD-3	CONSTRUCTION AND PLANTING DETAILS
15	CD-4	IRRIGATION DETAILS

### BASIS OF BEARINGS

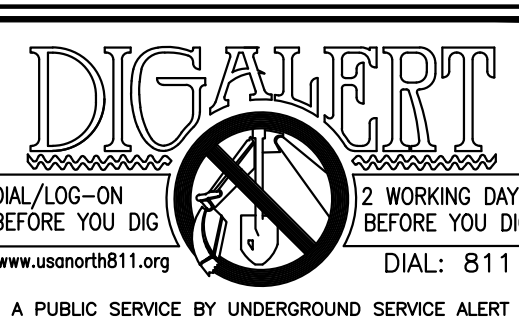
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 2, NAD 83, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING SYSTEMS (CGPS) STATION P344 AND STATION P336; BEING SOUTH 37°54'13" WEST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

### BENCHMARK

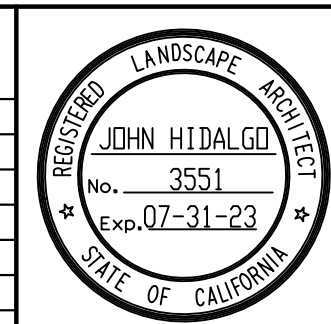
THE ORTHOMETRIC ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND WERE DETERMINED BY STATIC GPS TIES TO CGPS STATIONS P339 [A], P344 [B] & P336 [C] WITH PUBLISHED ELLIPSOIDAL HEIGHTS OF (A = 3215.333'), (B = 164.847') AND (C = 942.251'), IN ADDITION TO APPLYING THE NGS GEOID HEIGHT MODEL "GEOID2012B".

Plotted By: brnguyen

W:\WE-CA\Glenn County of 111685- Glenn Co. Gen. Serv. - Parks 800-P&A&E\901-Plans\ORLAND\Orland Title Sheet.dwg May 25, 2023 - 9:33am



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN Engineering** COMPREHENSIVE INNOVATIVE TRUSTED  
2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF  
*John Hidalgo*  
JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN	DATE
DRAWN BY: BN	
DESIGNED BY: BN	
CHECKED BY: JH	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

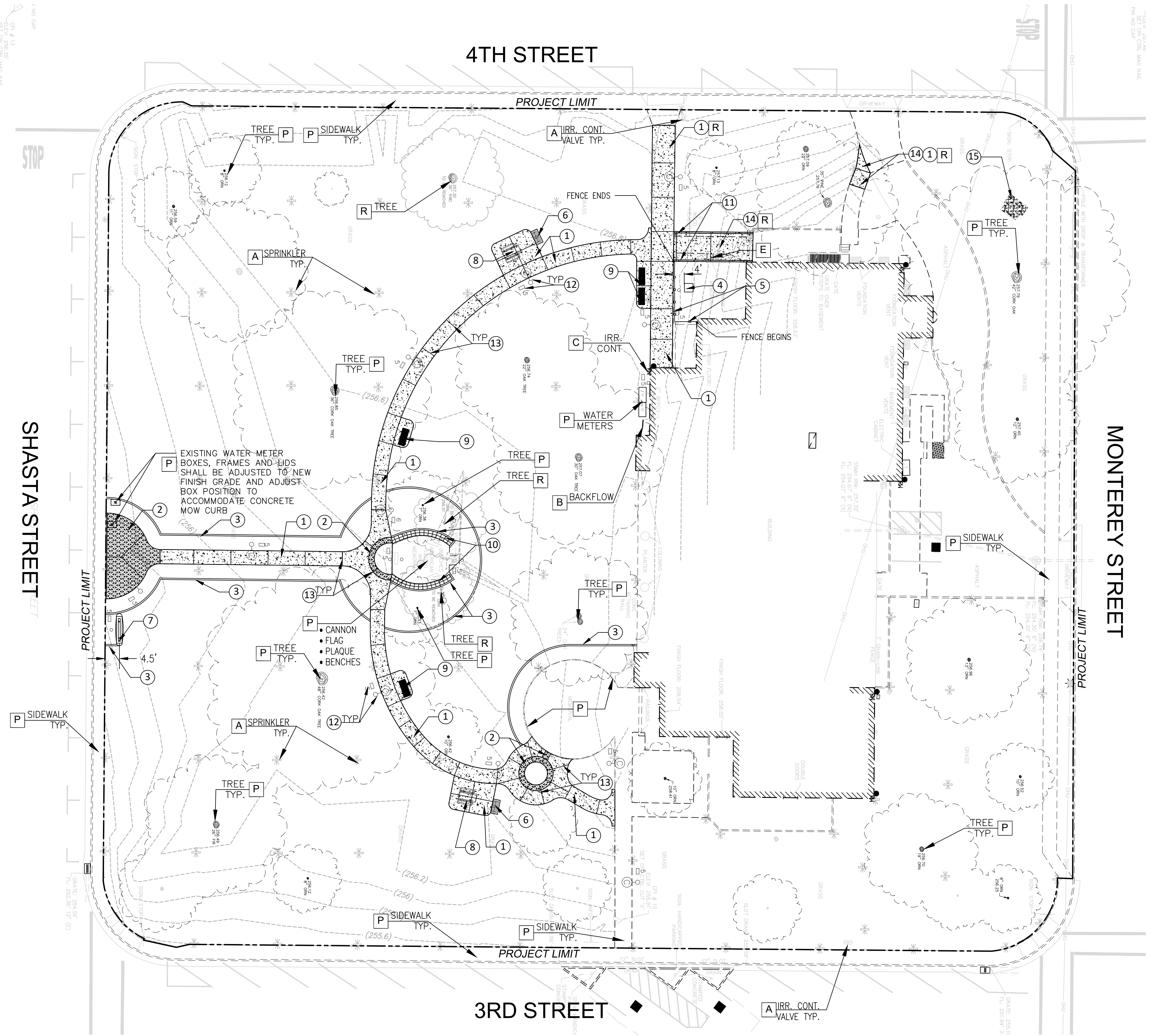
COUNTY OF GLENN GENERAL SERVICES - FACILITIES
453 E. COUNTY ROAD 49½ WILLOWS, CALIFORNIA 95988

ORLAND MEMORIAL PARK ACCESSIBILITY AND BEAUTIFICATION PROJECT TITLE SHEET
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SHEET 1 OF 15 DWG. NO. T-1
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Plotted By: bnguyen

W:\WE-CA\Glenn County of 111685-GlennCo\_Gen\_Srv\_Park\_800-PS&E\901-Plans\GRLAND\Orland\_Construction\_Plan.dwg May 25, 2023 - 9:34am



**CONSTRUCTION NOTES**

- 1 CONSTRUCT 4-INCH THICK NATURAL COLOR PCC WALKWAY AND PAVING WITH RETARDANT FINISH SURFACE OVER 95% COMPACTED SUB-GRADE. SEE DETAIL 1, DWG. NO. CD-1
- 2 CONSTRUCT 6-INCH THICK INTEGRAL, STAMPED COLOR PCC PAVING WITH REINFORCEMENT. SEE DETAIL 1, DWG. NO. CD-1
- 3 CONSTRUCT 6-INCH WIDE PCC MOW CURB. SEE DETAIL 6, DWG. NO. CD-3
- 4 FURNISH AND INSTALL BRONZE BALD EAGLE STATUE STATUE ON DECORATIVE PEDESTAL. SEE DETAIL 3, DWG. NO. CD-3
- 5 FURNISH AND INSTALL 3-FOOT HIGH TUBULAR PREFABRICATED ALUMINUM GARDEN FENCE. SEE DETAIL 2, DWG. NO. CD-3
- 6 FURNISH AND INSTALL PRECAST CONCRETE TRASH RECEPTACLES. SEE DETAIL 1, DWG. NO. CD-3
- 7 FURNISH AND INSTALL PRECAST CONCRETE PARK MONUMENT SIGN. SEE DETAIL 4, DWG. NO. CD-1
- 8 FURNISH AND INSTALL PRECAST CONCRETE PICNIC TABLE. SEE DETAIL 1, DWG. NO. CD-2
- 9 FURNISH AND INSTALL PREFABRICATED PARK BENCHES. SEE DETAIL 3, DWG. NO. CD-1
- 10 FURNISH AND INSTALL COUNTY FURNISHED DEDICATION BRICK/PAVER ON COMPACTED SUBGRADE. SEE DETAIL 5, DWG. NO. CD-1
- 11 FURNISH AND INSTALL TUBULAR GALVANIZED STEEL HANDRAIL. SEE DETAIL 2, DWG. NO. CD-1
- 12 PEDESTRIAN PATH LIGHT AND PULL BOX. SEE LIGHTING PLAN AND SEE DETAIL 3, DWG. NO. CD-2
- 13 CONSTRUCT JOINT(S) AS SHOWN ±10" O.C. FOR TOOLED JOINT ±20" FOR EXPANSION JOINT SEE DETAIL 1, DWG. NO. CD-1
- 14 CONSTRUCT PCC RAMP. SEE CIVIL ENGINEERING PLANS FOR ELEVATIONS AND CONSTRUCTION INFORMATION.
- 15 REFURBISH EXISTING BOY SCOUT FIRE PIT MONUMENT. SEE DETAIL SEE DETAIL 6, DWG. NO. CD-1

**DEMOLITION AND REMOVAL NOTES**

- A IRRIGATION EQUIPMENT. SEE EXISTING IRRIGATION SYSTEM REMOVAL NOTES.
- B BACKFLOW PREVENTER ASSEMBLY. PROTECT IN PLACE. CUT AND CAP EXISTING SUPPLY LINE AT THIS LOCATION. SEE IRRIGATION PLAN FOR MORE INFO.
- C REMOVE IRRIGATION CONTROLLER ASSEMBLY AND ALL CONTROL WIRES. PRESERVE EXISTING 120V POWER TO BE CONNECT TO NEW REPLACEMENT CONTROLLER. SEE IRRIGATION PLAN FOR ADDITIONAL INFO.
- D WATER METER BOX. PROTECT IN PLACE. ADJUST METER BOX AND FRAME TO NEW GRADE. READJUST BOX POSITION AS NEEDED TO AVOID NEW CONCRETE CURB.
- E REMOVE MILITARY SERVICE MEDALLIONS AND REINSTALL ON NEW BRONZE BALD EAGLE STATUE PEDESTAL. SEE DETAIL 3, DWG. NO. CD-3.
- R REMOVE AND DISPOSE.
- P PROTECT IN PLACE.

**GENERAL NOTES**

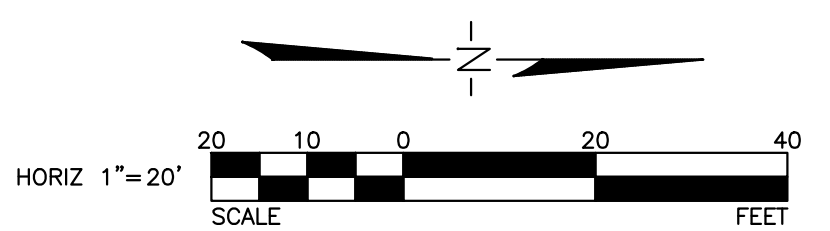
1. SEE CIVIL ENGINEERING HORIZONTAL CONTROL PLAN AND GRADING DRAINAGE PLANS FOR CIVIL IMPROVEMENT INFORMATION AND COORDINATION.
2. ALL EXISTING TREES INDICATED AS "PROTECT IN PLACE" SHALL BE PROTECTED FROM DAMAGE BY IMPLEMENTATION OF PROTECTIVE MEASURES AS DESCRIBED IN THE SPECIFICATIONS.
3. UNLESS OTHERWISE AS INDICATED ON THE PLAN, ALL EXISTING UTILITY STRUCTURES (UNDERGROUND AND ABOVE GROUND), TRAFFIC SIGNS, DIRECTIONAL SIGNS, ELECTRICAL EQUIPMENT, UTILITY BOXES, ETC. SHALL BE PROTECTED IN PLACE. VERIFY EXACT LOCATIONS WITH ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
4. ALL EXISTING UTILITY BOXES, FRAMES AND LIDS AFFECTED BY GRADING AND IMPROVEMENT SHALL BE ADJUSTED TO NEW FINISH GRADE.

**LANDSCAPE REMOVAL AND DISPOSAL NOTE**

CONTRACTOR SHALL CLEAR, GRUB AND DISPOSE EXISTING TURF AREAS WITHIN THE PROJECT LIMIT AS SHOWN, INCLUDING ALL EXISTING SHRUBS AND GROUNDCOVERS WITHIN THE NEW IRRIGATION SYSTEM IMPROVEMENT AREAS. SEE IRRIGATION PLAN FOR AREA COVERAGE.

**EXISTING IRRIGATION SYSTEM REMOVAL NOTES**

1. UNLESS OTHERWISE INDICATED ON PLAN, CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING IRRIGATION EQUIPMENT, SPRINKLERS, PIPING, ETC. WITHIN THE PROJECT LIMIT LINE AS SHOWN.
2. VERY EXACT LOCATION OF IRRIGATION EQUIPMENT WITH ENGINEER PRIOR TO REMOVAL.



**DIG ALERT**  
 DIAL/LOG-ON 12 WORKING DAYS BEFORE YOU DIG  
 www.usanorth811.org  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

**811**  
 USANORTH811.ORG  
 Know what's below. Call before you dig.

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

LANDSCAPE ARCHITECT  
**JOHN HIDALGO**  
 No. 3551  
 Exp. 07-31-23  
 STATE OF CALIFORNIA

**WILLDAN Engineering** COMPREHENSIVE INNOVATIVE TRUSTED  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644  
 PREPARED UNDER THE SUPERVISION OF  
*John Hidalgo*  
 JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY  
 DESIGNED BY  
 CHECKED BY

DATE

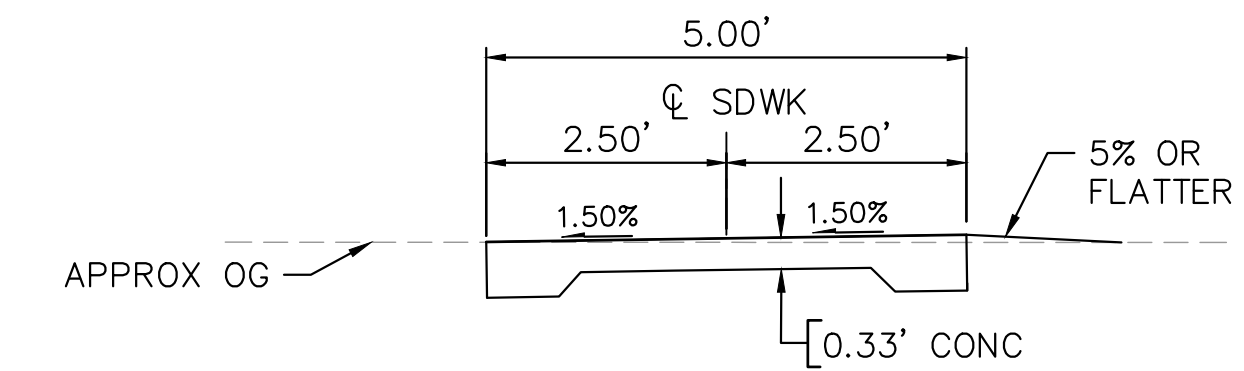
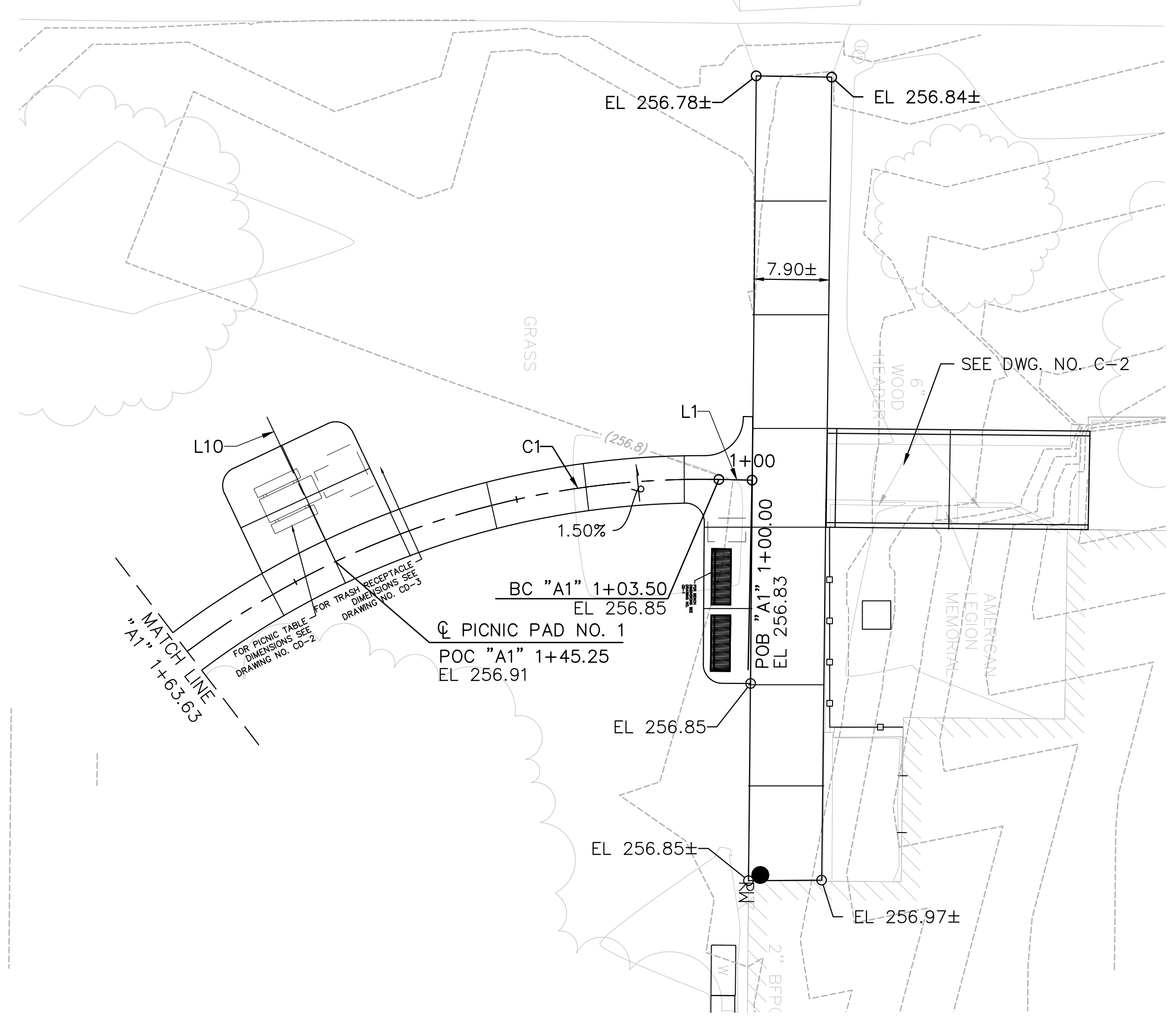
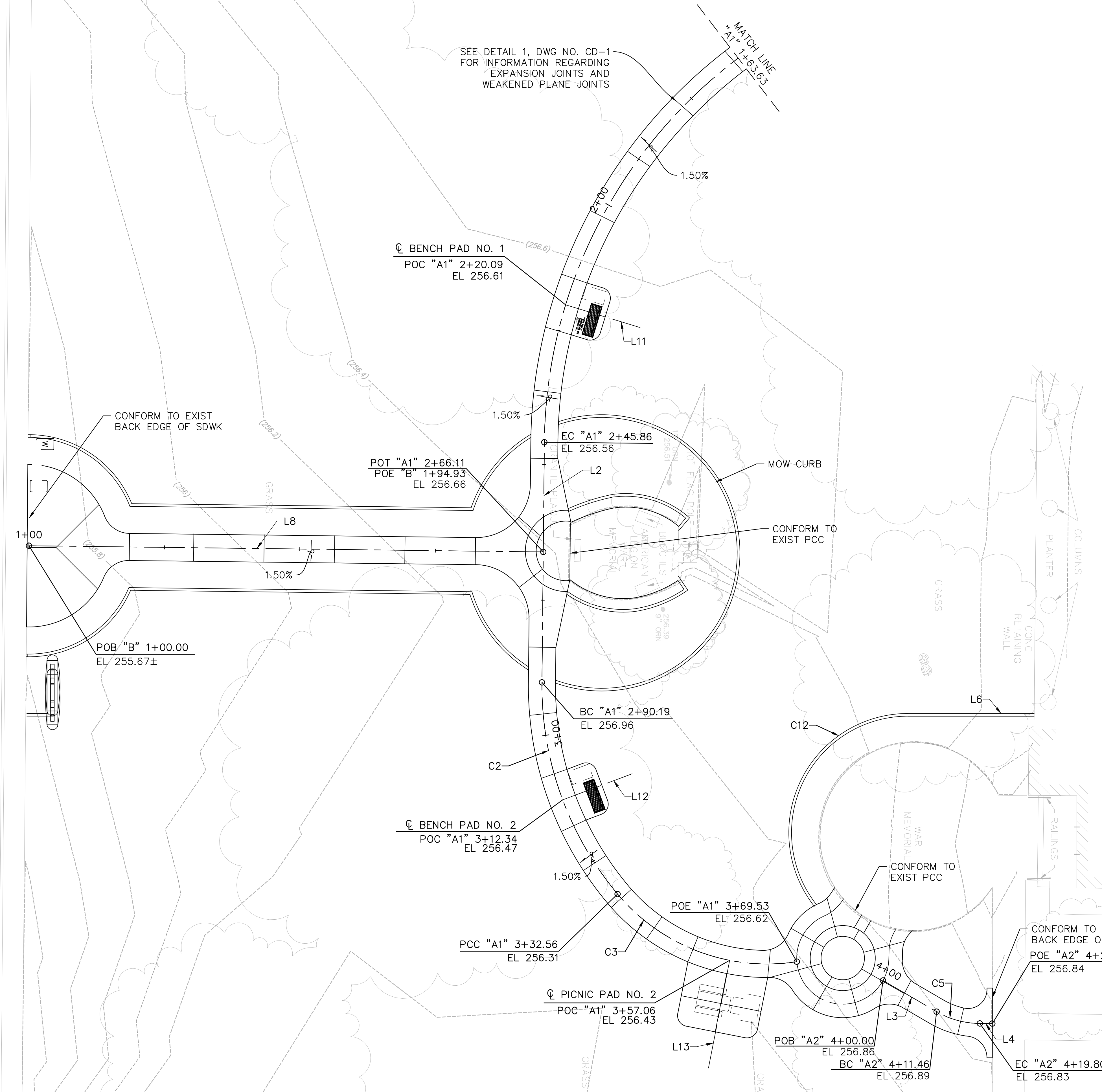
COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49th  
 WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 DEMOLITION AND CONSTRUCTION PLAN

SHEET 2 OF 15  
 DWG. NO. DC-1

Plotted By: bnguyen  
W:\WC-CA\Glenn\_County\111888-GlennCo\_Gen\_Srv\_Park\900-PS&E\901-Plans\ORLAND\Civil\_Site\_Plan.dwg May 25, 2023 - 9:35am

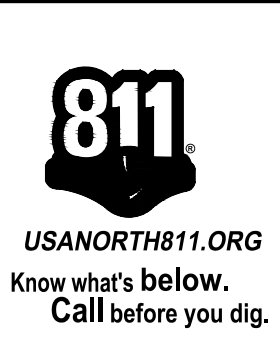
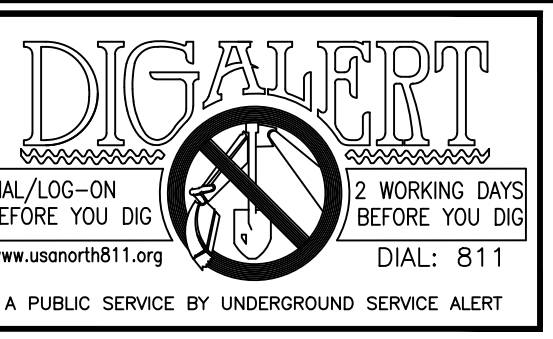
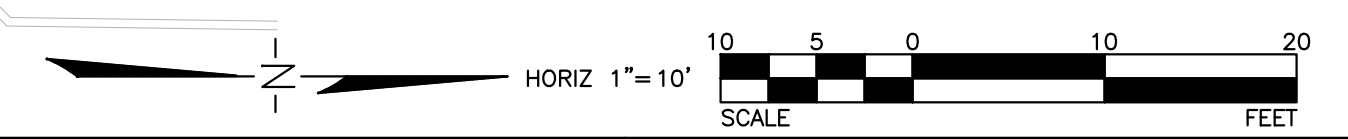
4TH STREET



"A" LINE AND "B" LINE  
TYPICAL SIDEWALK SECTION  
SCALE: 1/2" = 1'-0"

NOTES

1. DIMENSIONS OF THE PAVEMENT STRUCTURAL SECTIONS ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. TYPICAL CROSS SLOPE IS EQUAL TO 1.50% IN NO CASE SHALL THE CROSS SLOPE EXCEED 2.00% MEASURED NORMAL TO THE SIDEWALK CENTERLINE. FOR DIRECTION OF CROSS SLOPES AND AREAS OF VARYING CROSS SLOPES, SEE THIS PLAN SHEET AND OTHER CONSTRUCTION DETAIL SHEETS.
3. SEE DEMOLITION AND CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION AND COORDINATION.



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



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PREPARED UNDER THE SUPERVISION OF  
 Tyrone Peter R.C.E. 81888 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY CL  
 DESIGNED BY CL  
 CHECKED BY TP

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49 1/2  
 WILLOWS, CALIFORNIA 95988

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 CIVIL SITE PLAN

SHEET 3 OF 15  
 DWG. NO. C-1

### "A" LINE HORIZONTAL ELEMENTS TABLE

ELEMENT ID	POINT TYPE	STATION	NORTHING	EASTING	RADIUS	LENGTH	DELTA	BEARING
L1	POB	1+00.00	2399816.54	6507185.4		3.50'		S01°12'05"W
	BC	1+03.50	2399813.03	6507185.33				
C1	BC	1+03.50	2399813.03	6507185.33		90.00'	142.36'	90°37'38"
	HPI	1+74.68	2399722.06	6507183.42				
	CC	2399748.5	6507210.69					
	EC	2+45.86	2399721.15	6507274.4				
L1	EC	2+45.86	2399721.15	6507274.4		44.33'		S89°25'33"E
	PC	2+90.19	2399720.71	6507318.73				
C2	PC	2+90.19	2399720.71	6507318.73		60.00'	42.37'	40°27'48"
	HPI	3+11.38	2399720.49	6507340.85				
	CC	2399724.2	6507339.52					
	PCC	3+32.56	2399734.67	6507357.81				
C3	PCC	3+32.56	2399734.67	6507357.81		36.00'	36.97'	58°50'04"
	HPI	3+51.05	2399747.69	6507373.39				
	CC	2399749.57	6507368.4					
	PCC	3+69.53	2399767.75	6507370.31				
L3	EC	3+91.25	2399783.65	6507373.77		11.46'		N30°12'30"E
	PC	4+02.71	2399793.55	6507379.53				
C5	PC	4+02.71	2399793.55	6507379.53		16.00'	8.35'	29°53'49"
	HPI	4+06.88	2399797.24	6507381.68				
	CC	2399797.39	6507381.14					
	PCC	4+11.05	2399801.52	6507381.71				
L4	EC	4+11.05	2399801.52	6507381.71		2.32'		N00°18'40"E
	PC	4+13.37	2399803.84	6507381.72				

### "B" LINE HORIZONTAL ELEMENTS TABLE

ELEMENT ID	POINT TYPE	STATION	NORTHING	EASTING	RADIUS	LENGTH	DELTA	BEARING
L8	POB	1+00.00	2399626.03	6507293.51		94.93'		N00°41'31"E
	POE	1+94.93	2399720.95	6507294.65				

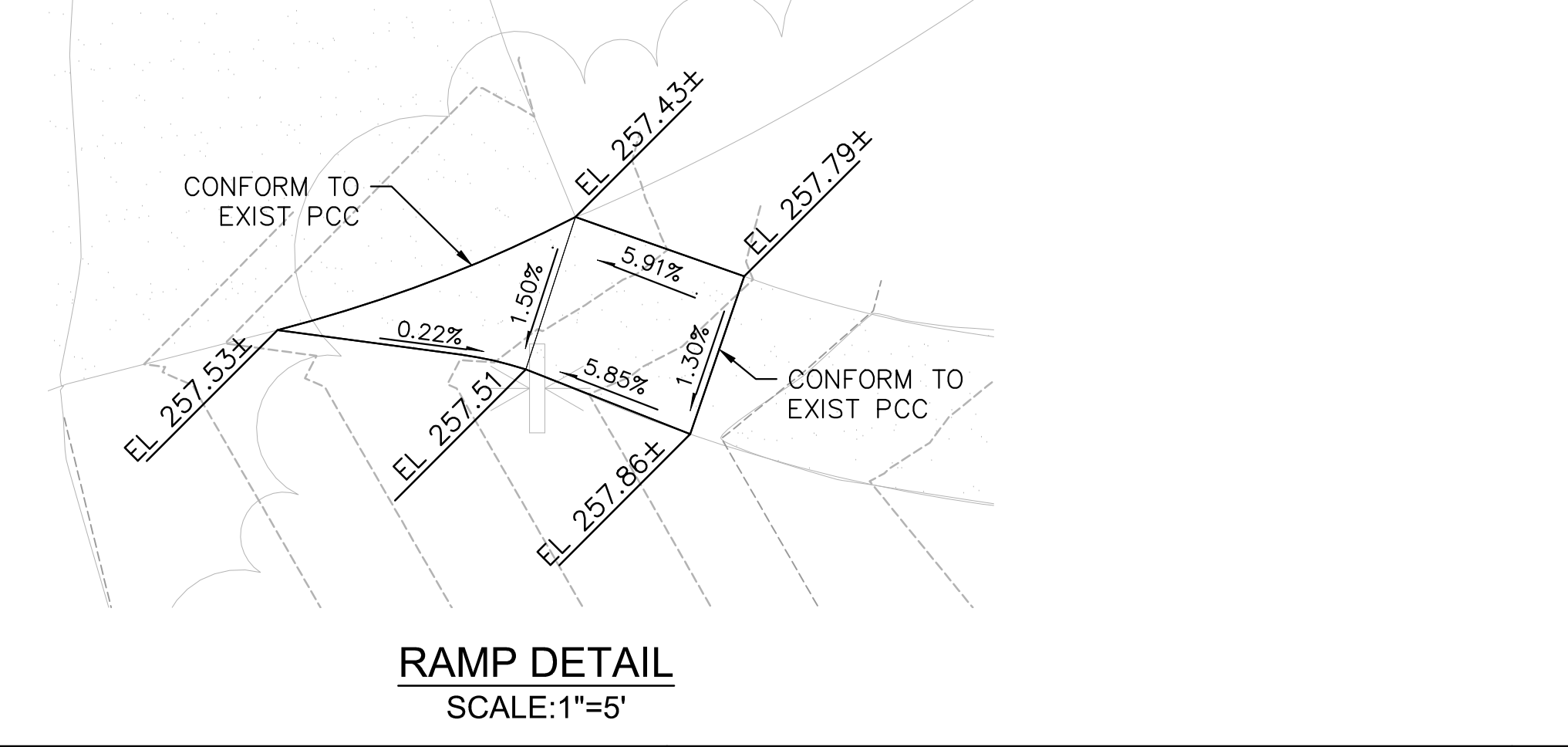
### MOW STRIP HORIZONTAL ELEMENTS TABLE

ELEMENT ID	POINT TYPE	NORTHING	EASTING	RADIUS	LENGTH	DELTA	BEARING
L6	POB	2399811.54	6507324.48		23.27'		S00°00'00"E
	POE	2399788.27	6507324.48				

ELEMENT ID	POINT TYPE	NORTHING	EASTING	RADIUS	LENGTH	DELTA	BEARING
C12	BC	2399788.27	6507324.48		22.00'	49.12'	127°55'52"
	HPI	2399743.24	6507324.48				
	CC	2399768.51	6507336.82				
	EC	2399770.92	6507360				

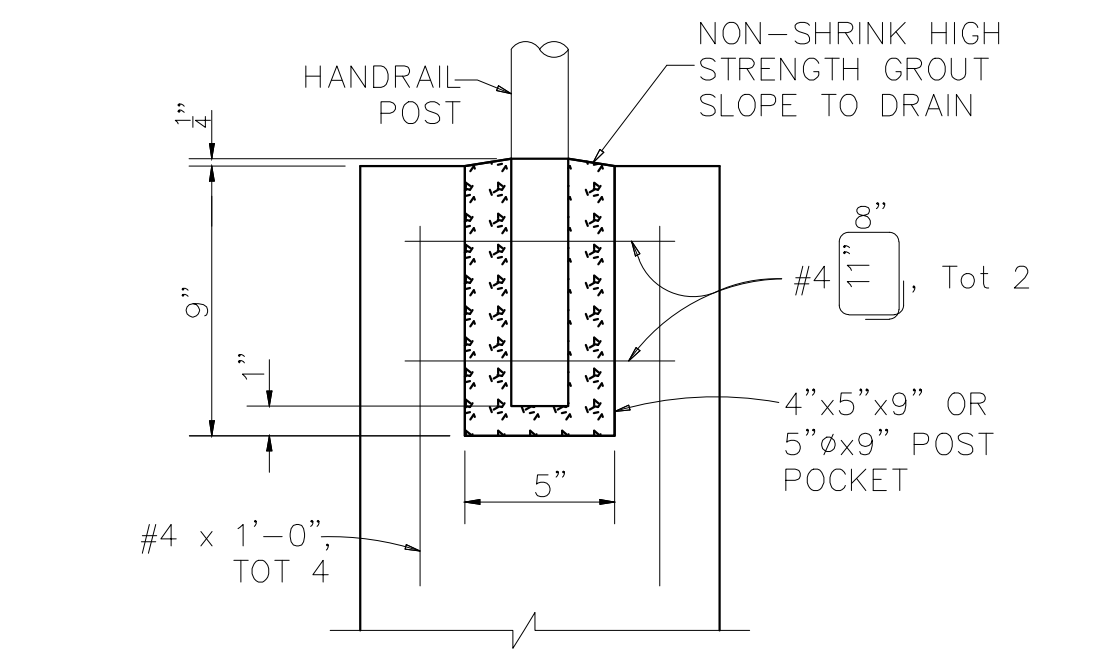
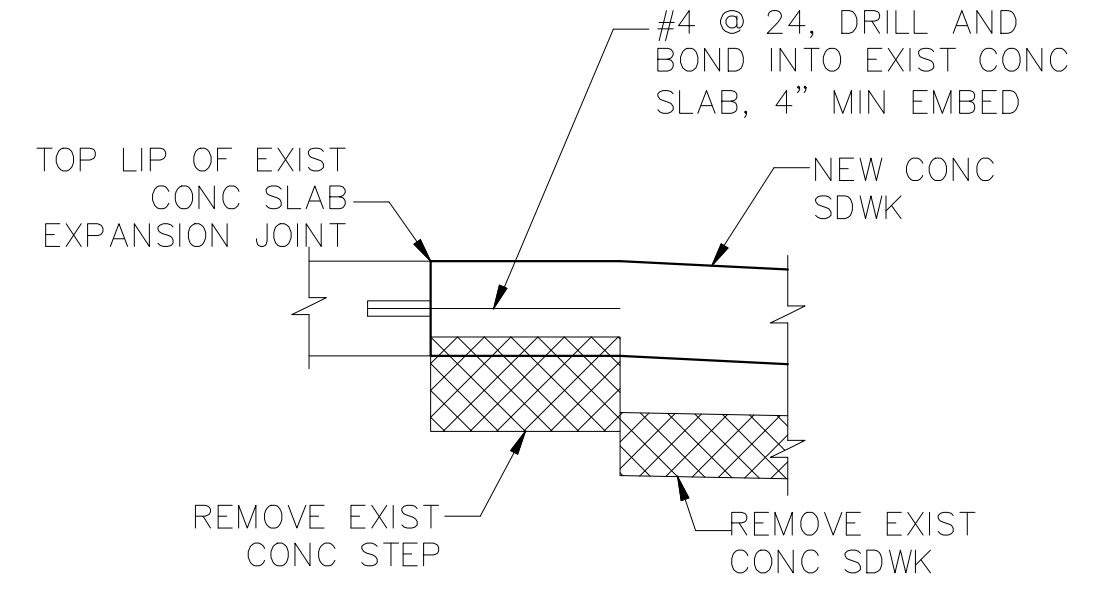
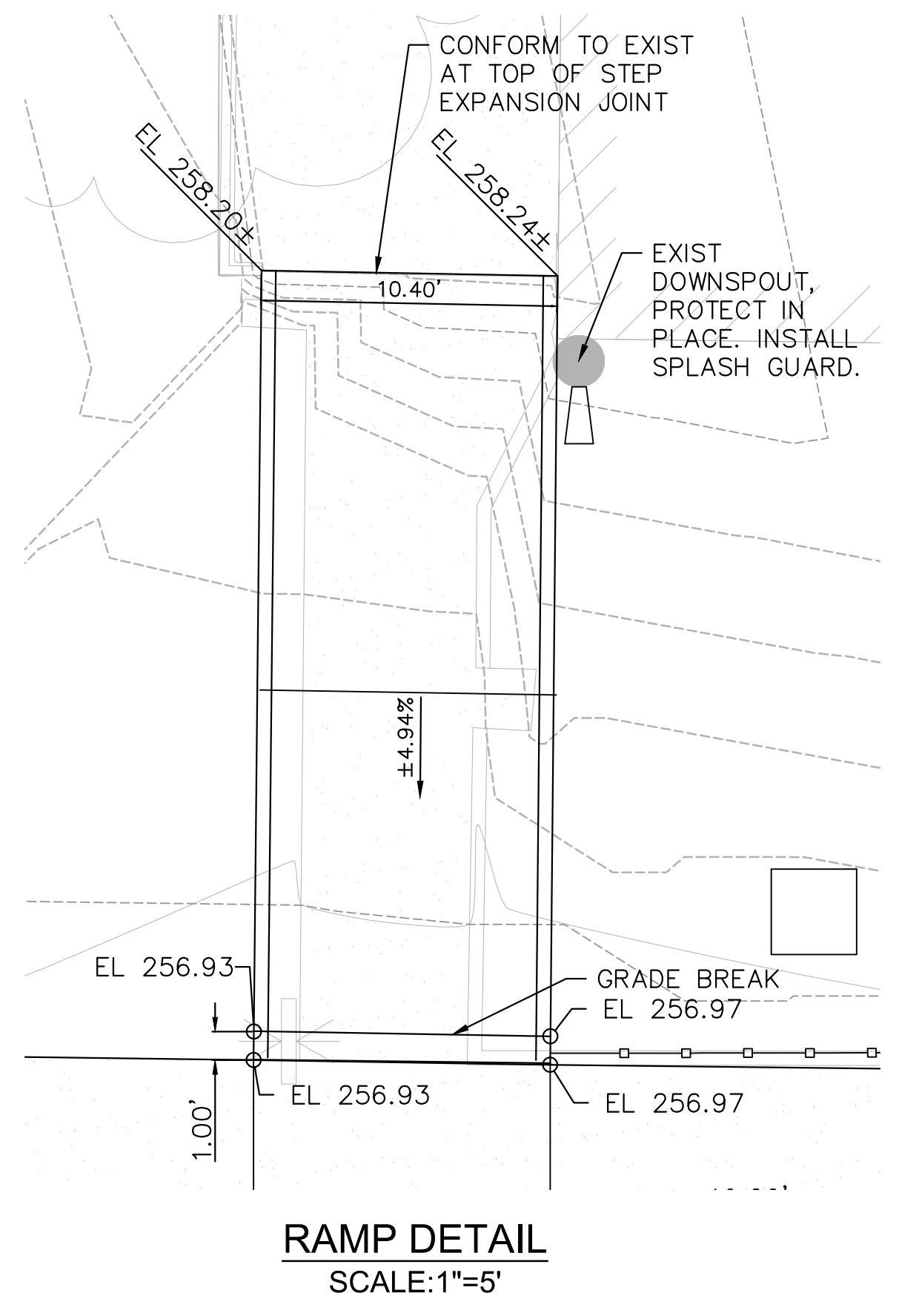
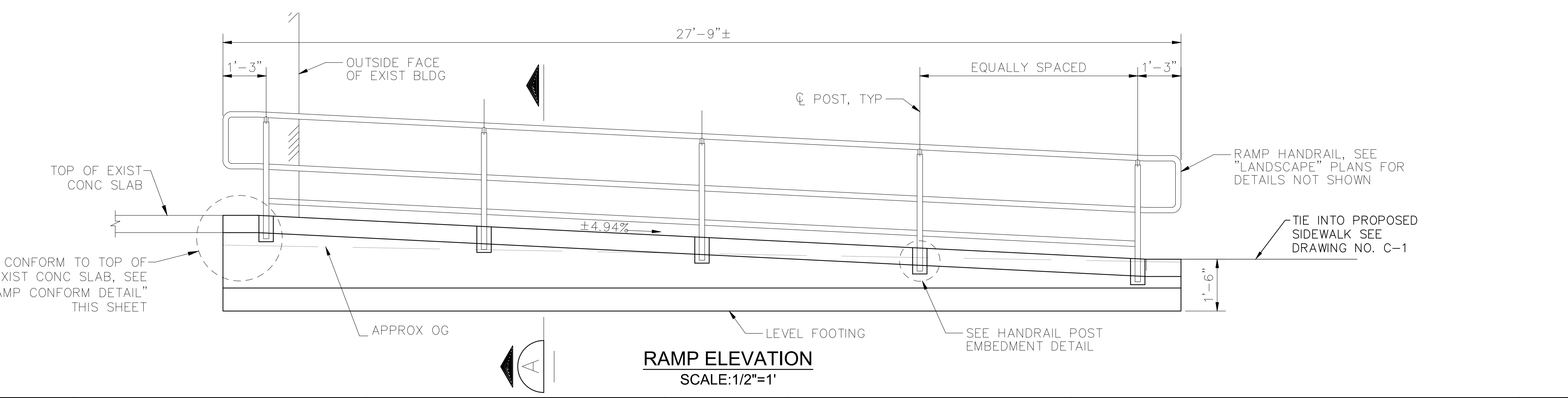
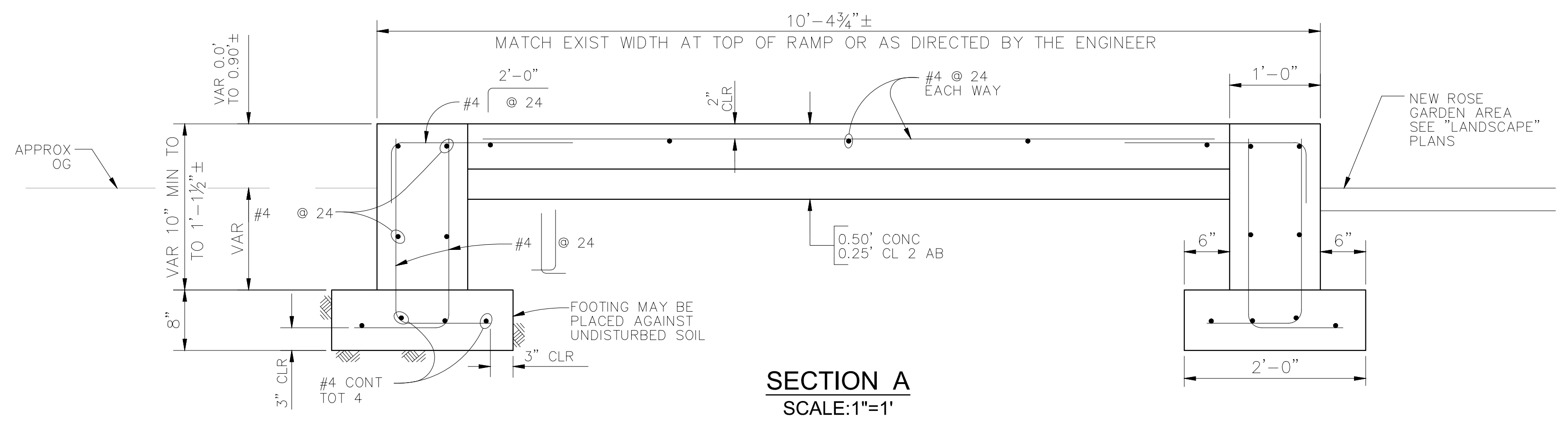
### BENCH/PICNIC PAD HORIZONTAL ELEMENTS TABLE

ELEMENT ID	POINT TYPE	NORTHING	EASTING	RADIUS	LENGTH	DELTA	BEARING
L10	POB	2399765.35	6507178.75		16.87'		N64°37'02"E
	POE	2399772.58	6507193.99				
L11	POB	2399738.83	6507253.22		14.38'		S16°58'48"W
	POE	2399725.07	6507249.02				
L12	POB	2399737.35	6507335.61		13.70'		S20°34'42"E
	POE	2399724.53	6507340.42				
L13	POB	2399751.44	6507389.95		20.28'		N78°52'54"W
	POE	2399755.35	6507370.05				



### PLANTING AREA DETAIL HORIZONTAL ELEMENTS TABLE

ELEMENT ID	POINT TYPE	NORTHING	EASTING	RADIUS	LENGTH	DELTA	BEARING
C6	BC	2399771.82	6507359.56		5.00'	2.81'	32°10'37"
	HPI	2399773.01	6507358.83				
	CC	2399769.82	6507354.98				
	EC	2399773.95	6507357.79				
C7	BC	2399761.44	6507368.22		5.00'	5.91'	67°46'44"
	HPI	2399764.25	6507367.44				
	CC	2399761.57	6507363.22				
	EC	2399766.15	6507365.22				
C8	BC	2399766.94	6507375.54		5.00'	5.07'	58°07'25"
	HPI	2399765.11	6507373.83				
	CC	2399762.72	6507378.22				
	EC	2399762.67	6507373.22				
C9	BC	2399787.34	6507378.81		5.00'	5.47'	62°43'40"
	HPI	2399784.72	6507378.13				
	CC	2399784.82	6507383.13				
	EC	2399782.14	6507378.92				
C10	BC	2399787.22	6507369.94		5.00'	5.35'	61°21'41"
	HPI	2399787.85	6507372.51				
	CC	2399792.22	6507370.08				
	EC	2399789.7	6507374.4				
L6	POB	2399787.22	6507369.94		1.58'		N88°25'49"W
	POE	2399787.26	6507368.36				
C11	BC	2399789.21	6507364.54		5.00'	4.43'	50°45'54"
	HPI	2399787.8	6507366.23				
	CC	2399792.26	6507368.5				
	EC	2399787.26	6507368.36				
L7	POB	2399773.96	6507357.79		1.47'		N55°46'15"W
	POE	2399774.79	6507366.68				



W:\WE-CA\Glenn\_County\_of\_111685-GlennCo\_Gen\_Serv\_Perms\000-PS&E\901-Plans\ORLAND\ORLAND\_Civil\_Site\_Plan - Layout3.dwg May 31, 2023 - 12:40pm  
 Plotted By: bnguyen

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

SCALE: AS SHOWN  
 DRAWN BY: CL  
 DESIGNED BY: CL  
 CHECKED BY: TP  
 DATE: 5/31/2023  
 DATE: 5/31/2023  
 DATE: 5/31/2023

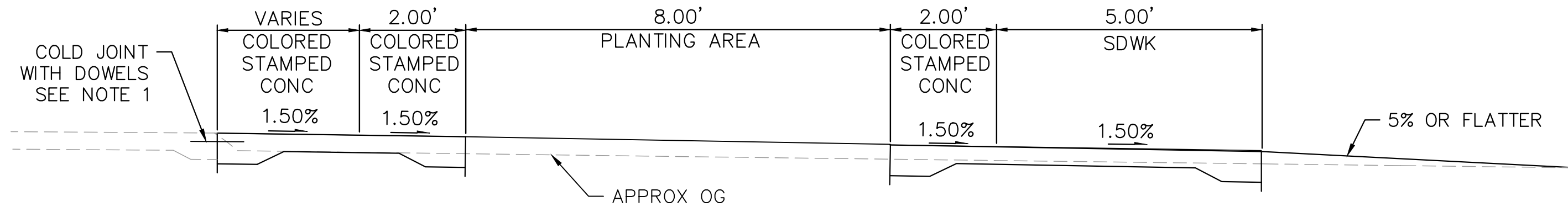
COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49th  
 WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 CURVE & LINE DATA  
 AND RAMP DETAILS

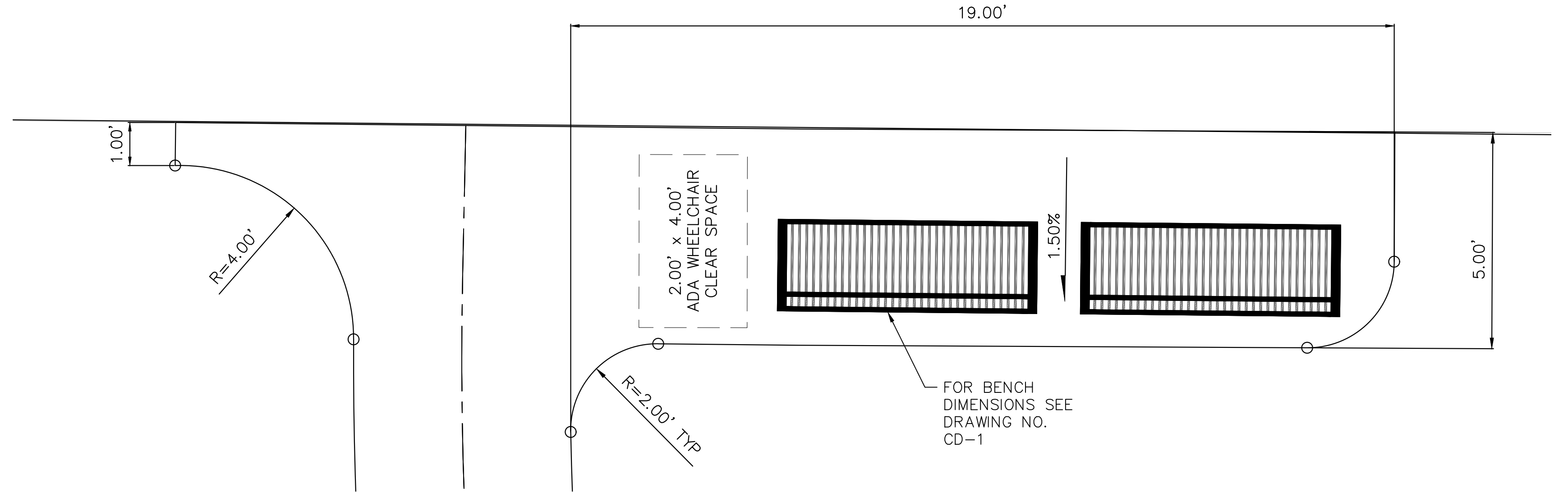
SHEET 4 OF 15  
 DWG. NO. C-2

**NOTES**

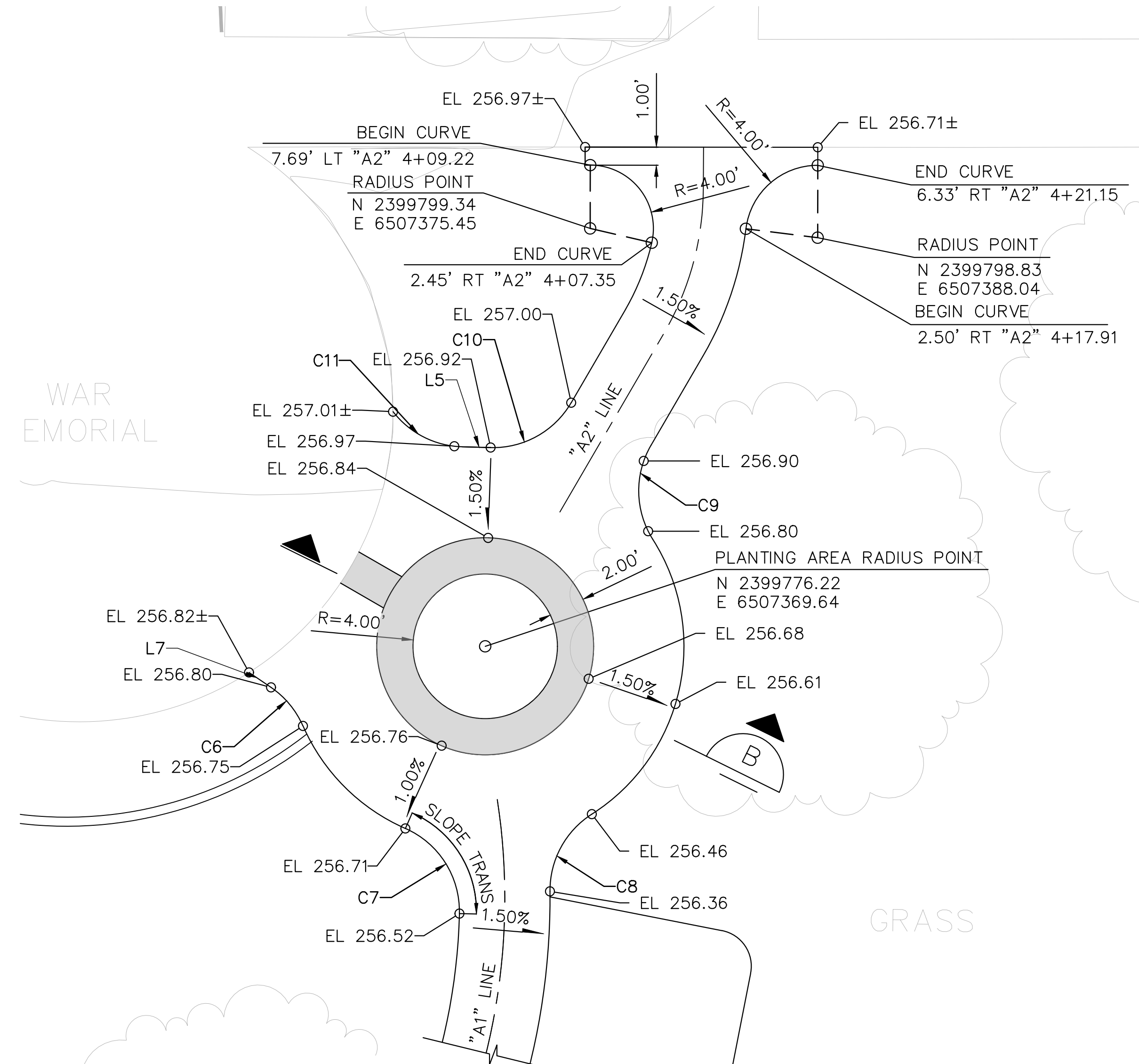
1. FOR DETAILS NOT SHOWN, SEE "LANDSCAPE" PLANS



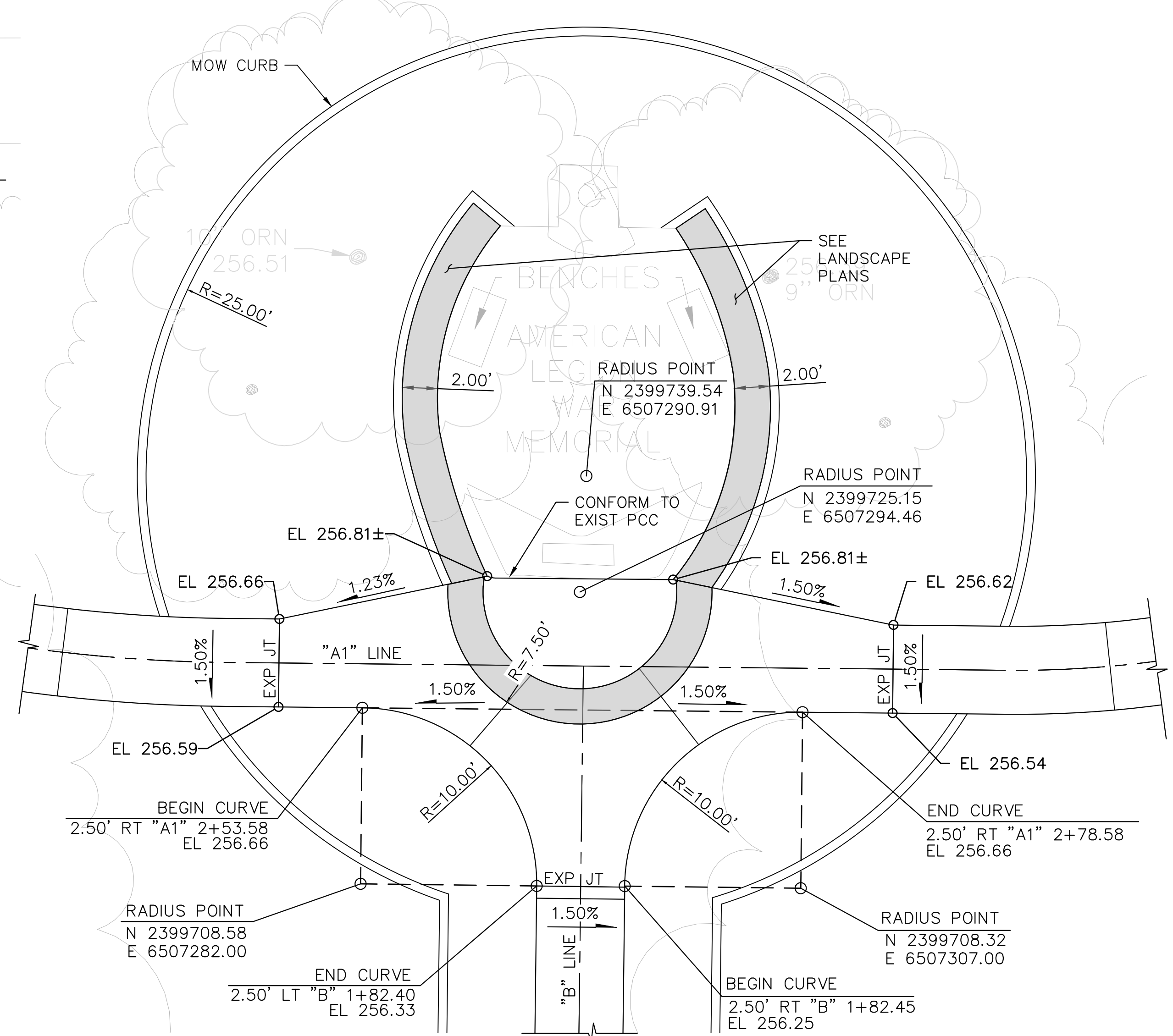
**SECTION B**  
SCALE: 1/2" = 1'



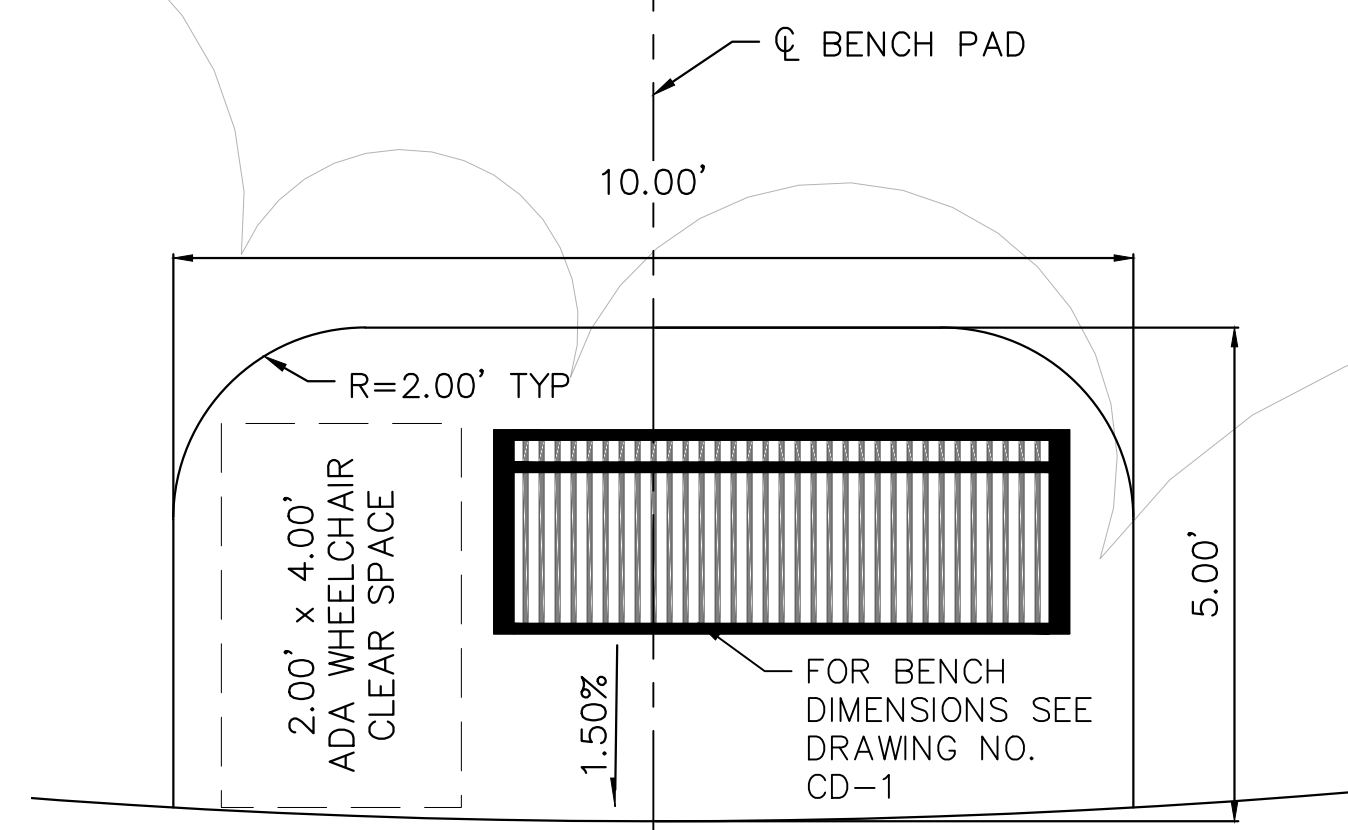
**NORTHWEST BENCH PAD DETAIL**  
1/2" = 1'



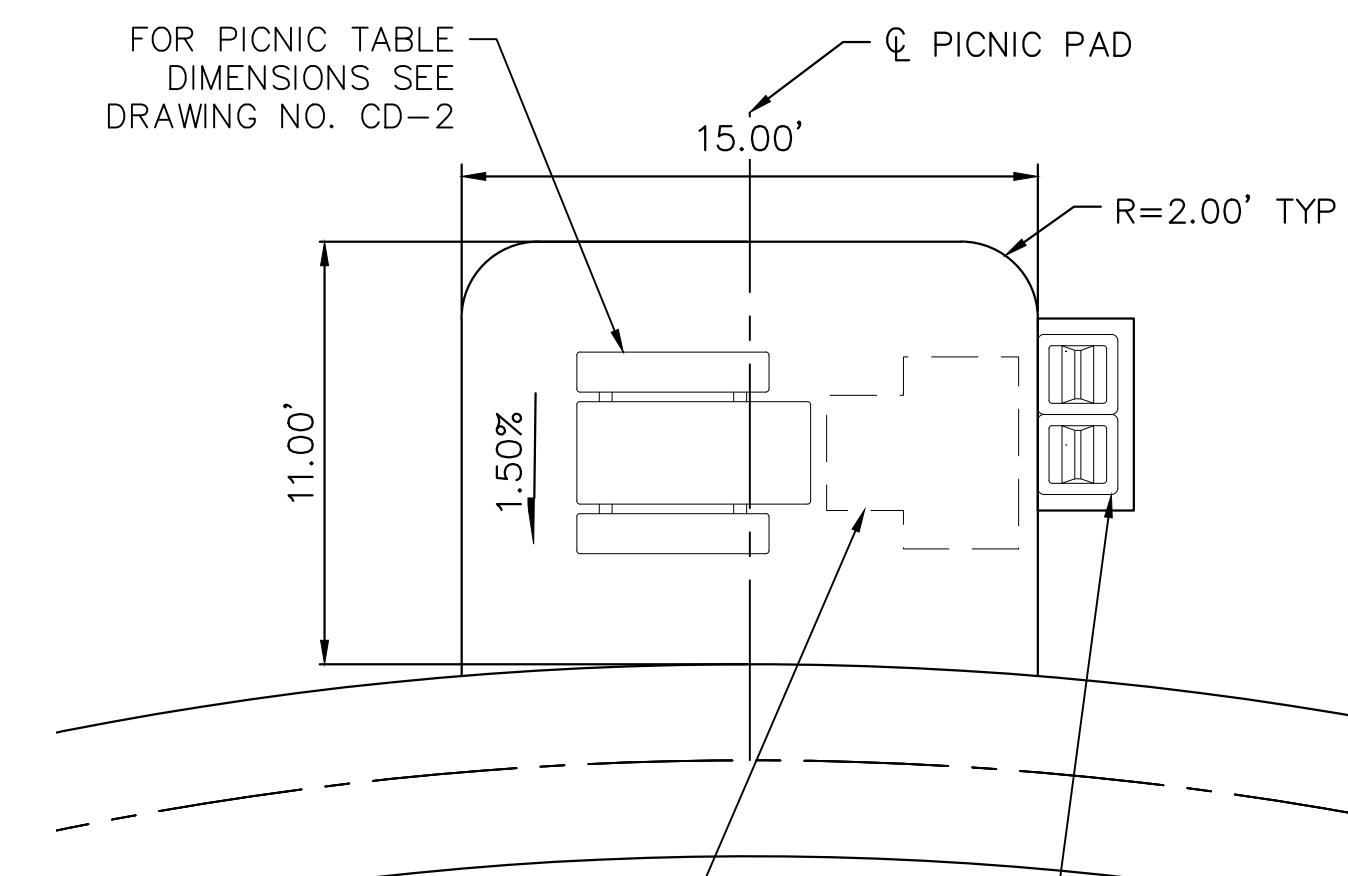
**EAST PLANTING AREA LAYOUT**  
1" = 5'



**CENTRAL PLANTING AREA LAYOUT**  
1" = 5'



**BENCH PAD DETAIL**  
1" = 5'



**PICNIC PAD DETAIL**  
1" = 5'

Plotted By: bnguyen  
W:\WE-CA\Glenn\_County\111688-GlennCo\_Serv\_Park\900-PS&E\901-Plans\ORLAND\Orland\_Civil\_Site\_Plan - Layout2.dwg May 25, 2023 - 9:37am

**DIGALERT**  
DIAL/LOG-ON BEFORE YOU DIG  
12 WORKING DAYS BEFORE YOU DIG  
DIAL: 811  
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

**811**  
USANORTH811.ORG  
Know what's below.  
Call before you dig.

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER  
TYRONE PETER  
NO. 81888  
CIVIL ENGINEER  
STATE OF CALIFORNIA

**WILLDAN Engineering** COMPREHENSIVE INNOVATIVE TRUSTED  
2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
916/924-7000 fax 916/924-3644  
PREPARED UNDER THE SUPERVISION OF  
*Tom Hilly*  
TYRONE PETER R.C.E. 81888 6/2/23 DATE

SCALE: AS SHOWN  
DRAWN BY: CL  
DESIGNED BY: CL  
CHECKED BY: TP  
DATE: \_\_\_\_\_  
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

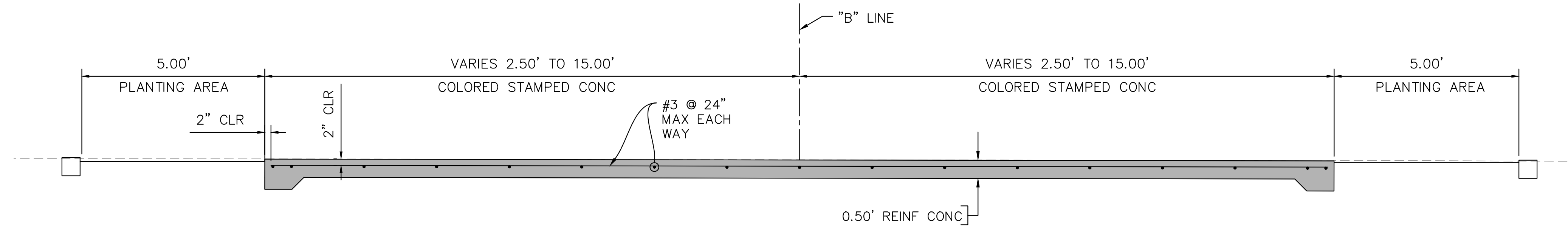
COUNTY OF GLENN  
GENERAL SERVICES - FACILITIES  
453 E. COUNTY ROAD 49th  
WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT  
CONSTRUCTION DETAILED LAYOUTS

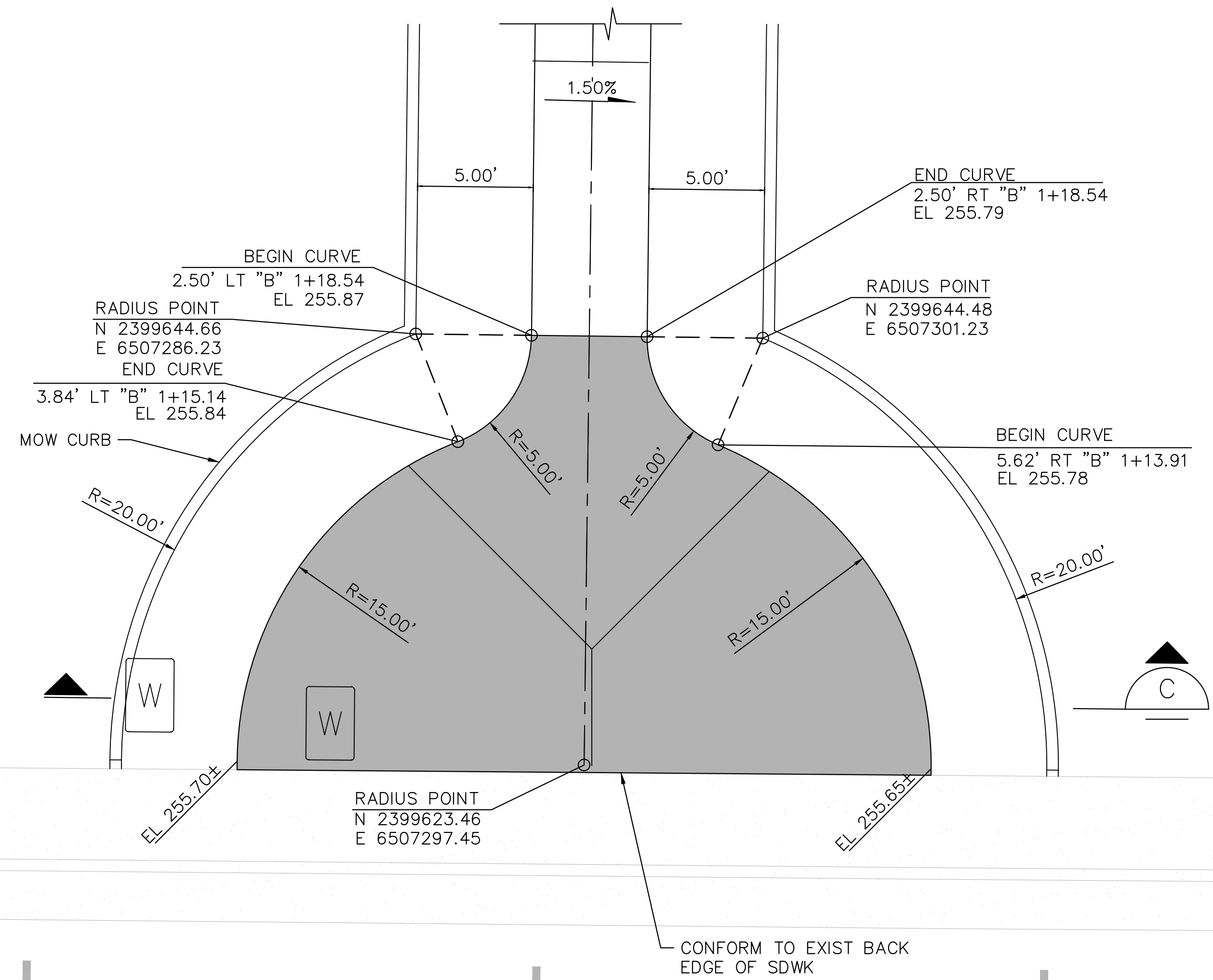
SHEET 5 OF 15  
DWG. NO. C-3

**NOTES**

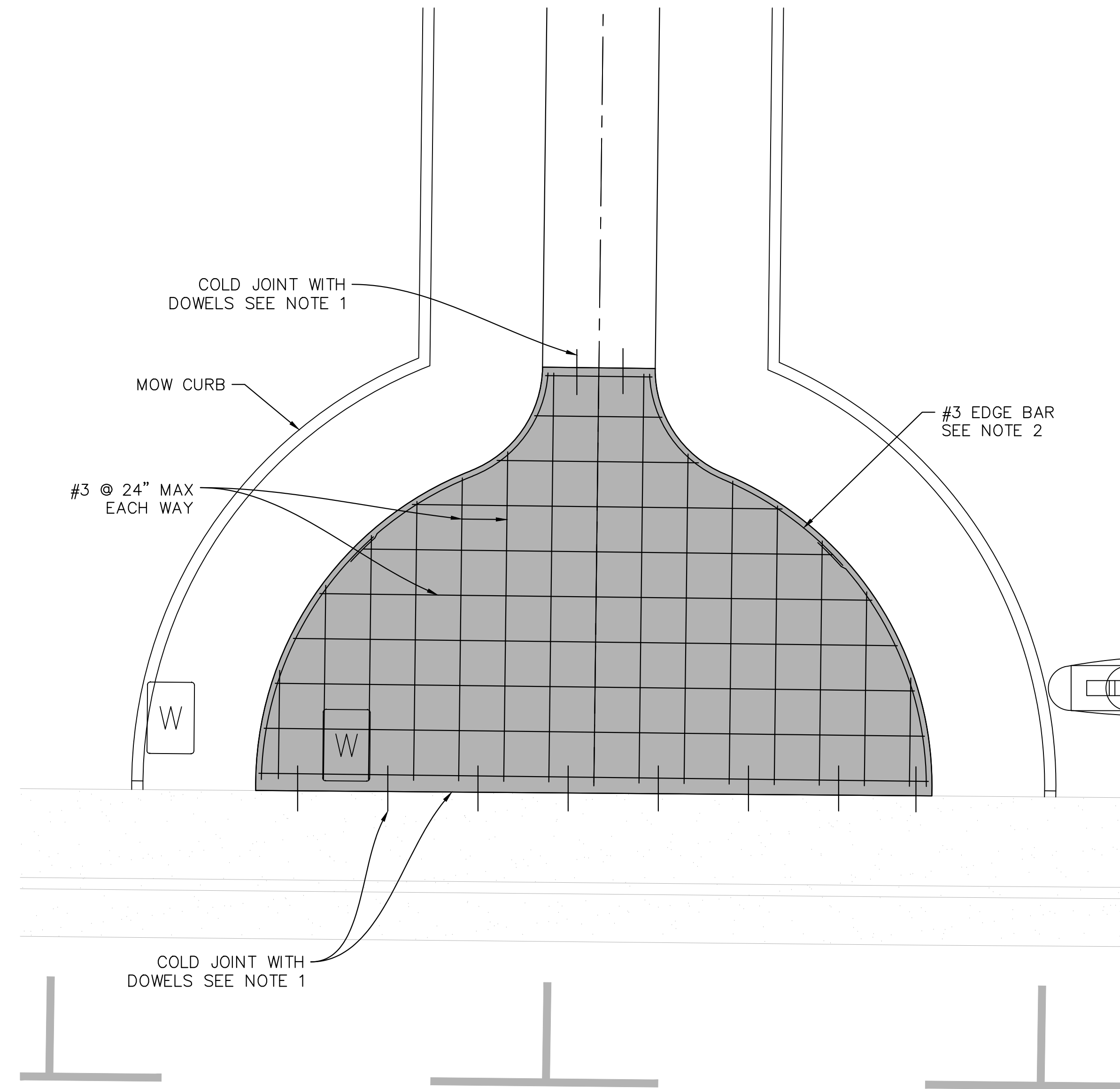
1. FOR DETAILS NOT SHOWN, SEE "LANDSCAPE" PLANS
2. PLACE #3 EDGE BARS. BARS MAY BE LAPPED. MINIMUM LAP LENGTH = 1'-6"



SECTION C  
SCALE: 1/2" = 1'



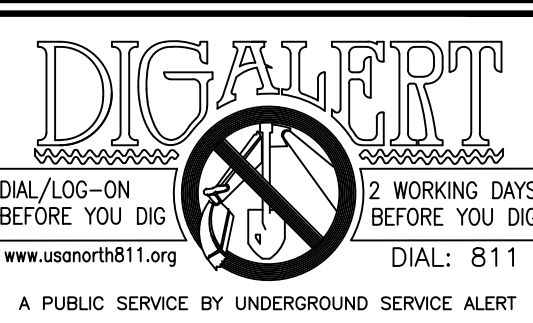
SOUTH PLANTING AREA PLAN  
1/4" = 1'



SOUTH PLANTING AREA REINFORCEMENT PLAN  
1/4" = 1'

Plotted By: bnguyen

W:\WC-CA\Glenn County of 1111685-GlennCo\_Gen\_Serv\_Parks\900-PS&E\901-Plans\ORLAND\Orland\_Civil\_Site\_Plan - Layout.dwg May 25, 2023 - 9:38am



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN** ENGINEERING TRUSTED  
2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF  
*Tyronne Peter*  
TYRONNE PETER R.C.E. 81888 6/2/23 DATE

SCALE: AS SHOWN  
DRAWN BY: CL  
DESIGNED BY: CL  
CHECKED BY: TP

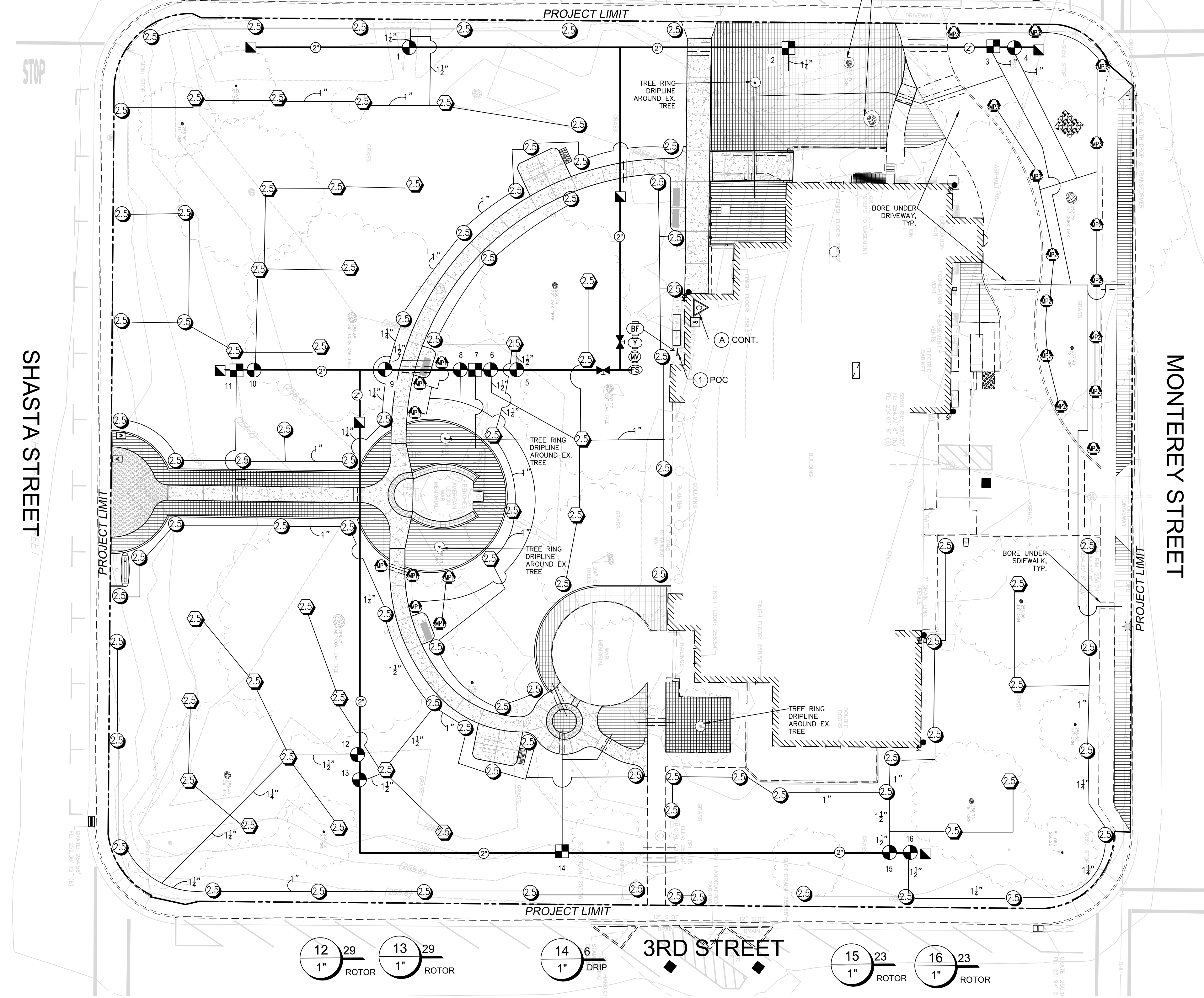
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

COUNTY OF GLENN  
GENERAL SERVICES - FACILITIES  
453 E. COUNTY ROAD 49½  
WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT  
CONSTRUCTION DETAILED LAYOUTS

SHEET 6 OF 15  
DWG. NO. C-4

4TH STREET



**IRRIGATION CONSTRUCTION NOTES**

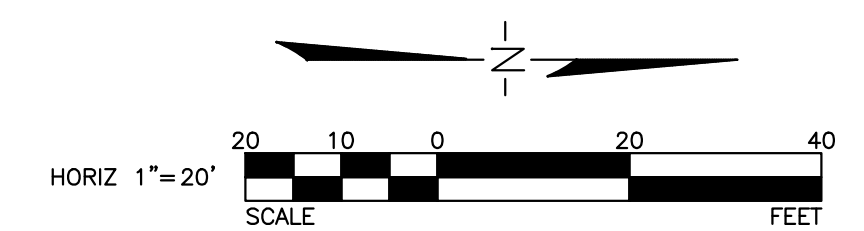
- 1 CONNECTION TO EXISTING WATER SUPPLY LINE
    - EXISTING WATER METER ASSEMBLIES IN VAULTS SHALL BE PROTECTED IN PLACE.
    - CONTRACTOR SHALL REMOVE EXISTING BACKFLOW PREVENTER AND CONCRETE BASE AND RETURN BACKFLOW PREVENTER TO THE COUNTY IF REQUIRED.
    - FURNISH AND INSTALL NEW 1 1/2" BACKFLOW PREVENTER ASSEMBLY IN NEW ENCLOSURE AND NEW CONCRETE PAD PER IRRIGATION LEGEND.
    - FURNISH AND INSTALL BACKFLOW PREVENTER FROST COVER MANUFACTURED BY POLAR PARKA OR APPROVED EQUAL.
    - CONNECT NEW IRRIGATION MAINLINE AND RELATED EQUIPMENT AS SHOWN ON PLAN AND IRRIGATION LEGEND, DOWNSTREAM FROM NEW BACKFLOW PREVENTER.
    - PIPE CONNECTION FROM EXISTING WATER METER TO NEW BACKFLOW SHALL BE 2" TYPE K COPPER LINE.
  - A NEW IRRIGATION CONTROLLER
    - REMOVE EXISTING WALL MOUNTED IRRIGATION CONTROLLER AND ASSOCIATED CONTROL WIRES.
    - FURNISH AND INSTALL NEW IRRIGATION CONTROLLER IN STAINLESS STEEL VANDAL AND WEATHER PROOF WALL MOUNTED ENCLOSURE PER IRRIGATION LEGEND.
    - UTILIZE EXISTING ELECTRICAL CONNECTION TO POWER NEW IRRIGATION CONTROLLER.
- CONTROLLER COMPONENTS**
- (1) RAIN BIRD LXME2-PRO  
CAPABILITY: 20 STATION
  - (1) IQ-GPRS CARD INTERFACE FOR 1 YEAR CELLULAR SERVICE
  - (1) FLOW SENSOR/MASTER VALVE INTERFACE
  - (1) RAIN/FREEZE SENSOR ASSEMBLY. SENSOR RECEIVER TO BE INSTALLED IN WEATHER PROOF ENCLOSURE
- CONTROLLER ASSEMBLY, INCLUDING RAIN/FREEZE SENSOR ASSEMBLY AND ENCLOSURES ARE AVAILABLE THROUGH AND MAY BE ASSEMBLED BY ITS - IMPERIAL TECHNICAL SERVICES. CONTACT DARYL GREEN @ GREEN PRODUCT SALES (949)584-7311 gps10@earthlink.net FOR PURCHASING AND TECHNICAL ASSISTANCE.

SEE DWG. NO. IP-2 FOR IRRIGATION LEGEND AND NOTES

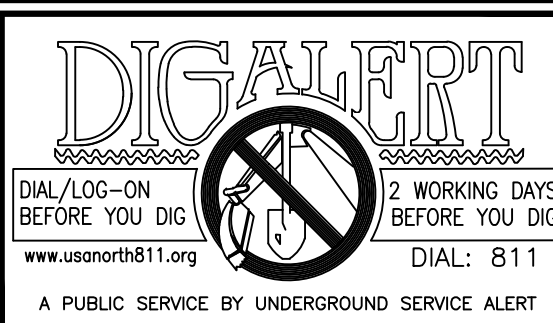
"I AGREE TO COMPLY WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN"

*[Signature]*  
LANDSCAPE ARCHITECT

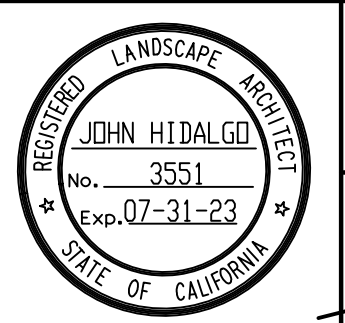
5/24/2023  
DATE



Plotted By: bnguyen  
 W:\WE-CA\Glenn County of 111685-GlennCo\_Gen\_Serv\_Parks\900-PS&E\901-Plans\ORLAND\Irrigation\_Plan.dwg May 25, 2023 - 12:44pm  
 DIAL/DIG-ON 12 WORKING DAYS BEFORE YOU DIG  
 www.usanorth811.org DIAL: 811  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN Engineering** COMPREHENSIVE INNOVATIVE TRUSTED  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF  
*[Signature]*  
 JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	

COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49 1/2  
 WILLOWS, CALIFORNIA 95968

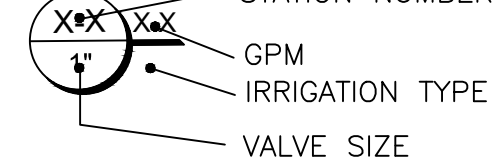
ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 IRRIGATION PLAN

SHEET 7 OF 15  
 DWG. NO. IP-1

### IRRIGATION LEGEND

SYM	DESCRIPTION	MANUF.	MODEL	REMARKS	DET. DWG. NO.	SYM	DESCRIPTION	MANF.	BODY	NOZ.	PSI	RAD	GPM	DET. DWG. NO.																					
	IRRIGATION CONTROLLER ASSEMBLY	RAIN BIRD	LXME2-PRO	IRRIGATION CONTROLLER SEE IRRIGATION CONSTRUCTION NOTE A	16	CD-4	POP-UP ROTOR (PART)	HUNTER	I20-06-R	2.5	35	35'	2.1	6	CD-4																				
	RAIN SENSOR	RAIN BIRD	WR2-48	RAIN/FREEZE SENSOR INSTALLED ON BUILDING ROOF EAVE WITH NO OBSTRUCTION OVER TOP	16	CD-4	POP-UP ROTOR (FULL)	HUNTER	I20-06-R	2.5LA	30	27'	2.1	6	CD-4																				
	CONTROL WIRE CONDUIT	APPROVED	SCH. 40 PVC	SIZE AS REQUIRED	9 & 12	CD-4	MP ROTATOR (ADJ.)	HUNTER	PROS-06-PRS30-CV	MP1000	30	12'	0.17-0.53	5	CD-4																				
	BACKFLOW PREVENTER ASSEMBLY	FEBCO	825YA	BACKFLOW PREVENTER DEVICE IN ENCLOSURE. SIZE: 1 1/2"	2	CD-4	MP ROTATOR (FULL)	HUNTER	PROS-06-PRS30-CV	MP1000	30	12'	0.77	5	CD-4																				
	Y-STRAINER PRESSURE REG.	WILKINS	500YSBR	COMBINATION PRESSURE REG. & Y-STRAINER LINE SIZE, INSTALL IN SEPARATE VALVE BOX (a)	5	CD-4	MP ROTATOR (ADJ.)	HUNTER	PROS-06-PRS30-CV	MP2000	30	17'	0.38-0.95	5	CD-4																				
	MASTER VALVE	GRISWOLD	2000 SERIES	NORMALLY CLOSED MASTER VALVE - LINE SIZE	1	CD-4	MP ROTATOR (ADJ.)	HUNTER	PROS-06-PRS30-CV	MP3000	30	27'	0.76-2.37	5	CD-4																				
	FLOW SENSOR	CST	FM-1B	1" FLOW SENSOR	1	CD-4	MP ROTATOR (FULL)	HUNTER	PROS-06-PRS30-CV	MP3000	30	27'	3.15	5	CD-4																				
	GATE VALVE	HAMMOND	IB646 SERIES	LINE SIZE	4	CD-4	LANDSCAPE DRIPPERLINE(b)	NETAFIM	TLCV4-12 SERIES Techline Dripperline	-	30	-	0.4 GPH/EMITTER	11, 13 & 14	CD-4																				
	REMOTE CONTROL VALVE	RAIN BIRD	PESB SERIES	SIZE NOTED ON PLAN	8	CD-4	(b) IRRIGATION SYSTEM SHALL BE INSTALLED COMPLETE INCLUDING LINE FLUSHING VALVE AND OPERATION INDICATOR PER DETAILS 11, 13 & 14, PLAN NO. CD-4. PVC HEADER SHALL BE 3/4" SCH 40 PVC PIPE. TECHLINE DRIPPER LINE SPACING @ 12" O.C. INSTALL OPERATION INDICATOR PER DETAIL AND FLUSH VALVE AT LOW POINT.																												
	DRIP CONTROL ZONE (3-20 GPM)	RAIN BIRD	REMOTE CONTROL VALVE (RVC) SIZE NOTED ON PLAN	• RAIN BIRD PESB SERIES VALVE • NETAFIM TF10418-XXCV: TECHFILTER (1") • PVC BALL VALVE = RCV SIZE	15	CD-4	<b>IRRIGATION DESIGN CRITERIA:</b>																												
	QUICK COUPLER	HUNTER	HQ-33DLRC	(3/4")	7	CD-4	<b>IRRIGATION CONTROL WIRE SIZING TABLE</b>																												
	CONTROL WIRE PULL BOX	APPROVED	-	INSTALL PULL BOX AT LOCATIONS WHERE WIRE RUN CHANGES DIRECTION, T-SPLICING, CROSSING ROADWAY AND BEFORE ENTERING THE CONTROL CABINET. LOCATE PULL BOX IN PLANTING AREA, WHEREVER POSSIBLE	10	CD-4	NAME OF WATER SUPPLIER: GLENN COUNTY, GENERAL SERVICES - FACILITIES																												
	IRRIGATION MAINLINE	APPROVED	SCH. 40 PVC CLASS 315	SCH. 40 - 1 1/2" AND BELOW CLASS 315 - 2" AND GREATER	9 & 12	CD-4	CONDUIT SIZE																												
	IRRIGATION LATERAL	APPROVED	SCH. 40 PVC	PVC LATERAL FOR IRRIGATION SHALL BE 3/4" MIN.	9 & 12	CD-4	MAX. NO. OF WIRES # 14 AWG																												
	IRRIGATION SLEEVE	APPROVED	SCH. 40 PVC	SLEEVE = 2X SIZE OF PIPE OR AS NOTED ON PLAN	9 & 12	CD-4	CONDUIT SIZE																												
										<b>PIPING SIZES:</b>																									
MINIMUM PIPE SIZE SHALL BE 3/4". FOR ALL PIPE SIZES NOT SHOWN USE THE FOLLOWING GUIDELINES:																																			
<table border="1"> <thead> <tr> <th>G.P.M. DEMAND</th> <th>PIPE SIZE</th> <th>TYPE</th> </tr> </thead> <tbody> <tr> <td>0-8</td> <td>3/4"</td> <td>SCH. 40</td> </tr> <tr> <td>8-12</td> <td>1"</td> <td>SCH. 40</td> </tr> <tr> <td>13-22</td> <td>1 1/4"</td> <td>SCH. 40</td> </tr> <tr> <td>23-30</td> <td>1 1/2"</td> <td>SCH. 40</td> </tr> <tr> <td>31-50</td> <td>2"</td> <td>CLASS 315</td> </tr> <tr> <td>51-70</td> <td>2 1/2"</td> <td>CLASS 315</td> </tr> </tbody> </table>															G.P.M. DEMAND	PIPE SIZE	TYPE	0-8	3/4"	SCH. 40	8-12	1"	SCH. 40	13-22	1 1/4"	SCH. 40	23-30	1 1/2"	SCH. 40	31-50	2"	CLASS 315	51-70	2 1/2"	CLASS 315
G.P.M. DEMAND	PIPE SIZE	TYPE																																	
0-8	3/4"	SCH. 40																																	
8-12	1"	SCH. 40																																	
13-22	1 1/4"	SCH. 40																																	
23-30	1 1/2"	SCH. 40																																	
31-50	2"	CLASS 315																																	
51-70	2 1/2"	CLASS 315																																	

CONTROL VALVE INFORMATION (a) SET PRESSURE REGULATOR +5 PSI ABOVE MIN. STATION NUMBER PRESSURE REQUIRED.



### IRRIGATION CONSTRUCTION NOTES

- CONNECTION TO EXISTING WATER SUPPLY LINE
    - EXISTING WATER METER ASSEMBLIES IN VAULTS SHALL BE PROTECTED IN PLACE
    - CONTRACTOR SHALL REMOVE EXISTING BACKFLOW PREVENTER AND CONCRETE BASE AND RETURN BACKFLOW PREVENTER TO THE COUNTY IF REQUIRED.
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    - FURNISH AND INSTALL BACKFLOW PREVENTER FROST COVER MANUFACTURED BY POLAR PARKA OR APPROVED EQUAL.
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    - UTILIZE EXISTING ELECTRICAL CONNECTION TO POWER NEW IRRIGATION CONTROLLER.
- CONTROLLER COMPONENTS**
- (1) RAIN BIRD LXME2-PRO
  - CAPABILITY: 20 STATION
  - (1) IQ-GPRS CARD INTERFACE FOR 1 YEAR CELLULAR SERVICE
  - (1) FLOW SENSOR/MASTER VALVE INTERFACE
  - (1) RAIN/FREEZE SENSOR ASSEMBLY. SENSOR RECEIVER TO BE INSTALLED IN WEATHER PROOF ENCLOSURE
- CONTROLLER ASSEMBLY, INCLUDING RAIN/FREEZE SENSOR ASSEMBLY AND ENCLOSURES ARE AVAILABLE THROUGH AND MAY BE ASSEMBLED BY ITS - IMPERIAL TECHNICAL SERVICES. CONTACT DARYL GREEN @ GREEN PRODUCT SALES (949)584-7311 gps10@earthlink.net FOR PURCHASING AND TECHNICAL ASSISTANCE.

**WORST CASE PRESSURE CALCULATION LONGEST RUN - P.O.C.**

23 GPM @ STATION 16

1 1/2" BACKFLOW PREVENTER 14.0  
WYE STRAINER 1.0  
MASTER VALVE 1.0  
GATE VALVE 1.0  
445' OF 1 1/2" MAINLINE 1.5  
1" CONTROL VALVE 3.6  
LATERAL LINE 2.0  
0' ELEVATION GAIN 0.0  
SUBTOTAL 24.1  
10% LOSS THRU FITTINGS 2.4  
PSI REQUIRED FOR ROTOR 35.0  
MIN. PRESSURE REQUIRED: 61.5  
STATIC WATER PRESSURE @ POC (POTABLE): FIELD VERIFY  
RESIDUAL PRESSURE: ---

### WATER EFFICIENT LANDSCAPE WORKSHEET (SEC. 492.4)\*

REFERENCE EVAPOTRANSPIRATION (ET <sub>o</sub> ): 52.10		ESTIMATED TOTAL WATER USE (ETWU)					
HYDROZONE	PLANT FACTOR*	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	AREA (S.F.)	ETAF X AREA	ESTIMATED TOTAL WATER USE (ETWU)
2,3,7,11 & 14	0.3	D	0.81	0.37	7,722	2860	92,384
4 & 8	0.6	S	0.75	0.80	4,859	3887	125,564
1,5,6,9,10,12,13, 15 & 16	0.6	R	0.75	0.80	56,182	44946	1,451,833
<b>TOTAL</b>					68,763	51,693	1,669,781
SPECIAL LANDSCAPE AREAS (IRRIGATION WATER USED IN PUBLIC PARK SETTING)							
A	0.6	D	0.81	0.55	68763	37820	1,221,650
<b>TOTAL</b>					68,763	37,820	1,221,650
TOTAL LANDSCAPE AREA					137,526		
ESTIMATED TOTAL WATER USE						2,891,431	
MAXIMUM ANNUAL WATER ALLOWANCE						3,220,715	
ETAF (LA)	ETAF (SLA)	ETAF X LA	ETAF X SLA				
0.45	0.55	61,887	37,820				

\*\*IRRIGATION METHOD  
MS = MICROSPRAY  
S = SPRAY  
R = ROTOR  
B = BUBBLER  
D = DRIP  
RO = ROTARY

\*PLANT FACTOR  
HW = HIGH WATER USE PLANTS - WULCOLS = 0.7-1  
MW = MEDIUM WATER USE PLANTS - WULCOLS = 0.4-0.6  
LW = LOW WATER USE PLANTS - WULCOLS = 0-0.3

WULCOLS  
WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES  
UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSIONS  
CALIFORNIA DEPARTMENT OF WATER RESOURCES

### SOIL MANAGEMENT REPORT (SECTION 492.5)\*

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)  
FORMULA: (E<sub>to</sub>)(0.62)[(ETAF x AREA) + (1 - ETAF x SLA)]

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (GALLONS PER YEAR)  
PF = PLANT FACTOR  
E<sub>to</sub> = REFERENCE EVAPOTRANSPIRATION (INCHES PER YEAR)  
IE = IRRIGATION EFFICIENCY (0.75-SPRAY, 0.81-DRIP)  
0.62 = CONVERSION FACTOR (TO GALLON PER SQUARE FOOT)  
SLA = PORTION OF THE LANDSCAPE AREA IDENTIFIED AS SPECIAL LANDSCAPE AREA (SQUARE FEET)

ETAF = PF/IE

MAWA = 3,220,715 GALLONS

ESTIMATED TOTAL WATER USE (ETWU)  
FORMULA: ETWU = (E<sub>to</sub>)(0.62)\*ETAF\*AREA

ETWU = ESTIMATED TOTAL WATER USE PER YEAR (GALLONS PER YEAR)

ETWU = 1,669,781 GALLONS

- PRIOR TO INSTALLATION OF PLANTING MATERIAL, THE CONTRACTOR SHALL PERFORM SOIL TEST ANALYSIS OF PLANTING AREAS. SOIL ANALYSIS SHALL INCLUDE:
  - SOIL TEXTURE
  - INFILTRATION RATE
  - pH
  - TOTAL SOLUBLE SALTS
  - PERCENT ORGANIC MATTER
  - SOIL AMENDMENT RECOMMENDATIONS
- CONTRACTOR SUBMIT SOIL ANALYSIS REPORT TO THE CITY AS PART OF THE CERTIFICATE OF COMPLETION.
- CONTRACTOR SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE CITY AS PART OF THE CERTIFICATE OF COMPLETION.

\* REFERENCE:  
CALIFORNIA CODE OF REGULATION - TITLE 23: WATER  
DIVISION 2: DEPARTMENT OF WATER RESOURCES  
CHAPTER 2.7. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE

### LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE (SECTION 492.11)\*

- LANDSCAPE SHALL BE MAINTAINED TO ENSURE WATER USE EFFICIENCY.
- A REGULAR MAINTENANCE SCHEDULE SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION.
- REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE:
  - ROUTINE INSPECTION
  - ADJUSTMENT AND REPAIR OF IRRIGATION SYSTEM AND ITS COMPONENTS
  - REPLENISHING MULCH
  - FERTILIZING
  - PRUNING
  - WEEDING
- IN ALL LANDSCAPE AREAS, AND REMOVING ANY OBSTRUCTION TO EMISSION DEVICES.
- OPERATION OF SYSTEM IS ALLOWED FOR AUDITING AND SYSTEM MAINTENANCE.
- REPAIR OF ALL IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY INSTALLED COMPONENTS OR THEIR EQUIVALENTS.

### IRRIGATION AUDIT/IRRIGATION WATER USE ANALYSIS (SECTION 492.12)\*

- ALL IRRIGATION AUDIT SHALL BE CONDUCTED BY A CERTIFIED IRRIGATION AUDITOR.
- NEW CONSTRUCTION AND REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER DEC. 1, 2015:
  - CONTRACTOR SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE: INSPECTION, SYSTEM TUNE-UP, SYSTEM TEST WITH DISTRIBUTION UNIFORMITY, REPORTING SYSTEM LEAK AND RUN-OFF THAT CAUSE OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE.
- LOCAL AGENCY SHALL ADMINISTER PROGRAMS TO INCLUDE IRRIGATION SURVEYS FOR COMPLIANCE WITH MAWA.

### IRRIGATION SCHEDULE

5/23 By: Willdan Engineering

Value Data	5/23	6/23	7/23	8/23	9/23	10/23	11/23	12/23	1/24	2/24	3/24	4/24	5/24	6/24	7/24	8/24	9/24	10/24	11/24	12/24	Totals
Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
GPM	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
In/hr	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Plants	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Exp	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun	Sun
Asses	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Minutes per Run	3	1	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Cycles/Durations per Month	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Runs per Cycle/Duration	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Irrigation System Yearly Totals: 598,388 Gallons / 79,988.40 C.F.I.																					

### PROJECT INFORMATION (SECTION 492.3(1))\*

DATE: 4/21/23

PROJECT APPLICANT: GLENN COUNTY

PROJECT LOCATIONS: ORLAND MEMORIAL PARK

TOTAL LANDSCAPED AND IRRIGATION AREA: 68,763 S.F.

PROJECT TYPE: PUBLIC AGENCY

WATER SUPPLY: DOMESTIC WATER

WATER AGENCY: COUNTY OF GLENN

PROJECT APPLICANT CONTACT: GLENN COUNTY, GENERAL SERVICES - FACILITIES

\*I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENT PACKAGE\*

LANDSCAPE ARCHITECT 4/21/23 DATE

W:\WC-CA\Glenn County\111665-PS&E-01-Plans\GIS\LAND\Orend\_Irrigation\_Plan.dwg May 25, 2023 - 9:39am  
 Plotted By: bnguyen

**DIGALERT**  
DIAL-ON OR CALL-ON 1/2 WORKING DAYS BEFORE YOU DIG  
DIAL: 811  
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

**811**  
USANORTH811.ORG  
Know what's below.  
Call before you dig.

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**WILLDAN Engineering**  
COMPREHENSIVE INNOVATIVE TRUSTED  
2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
916/824-7000 fax 916/824-3644

PREPARED UNDER THE SUPERVISION OF  
*John Hidalgo*  
JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

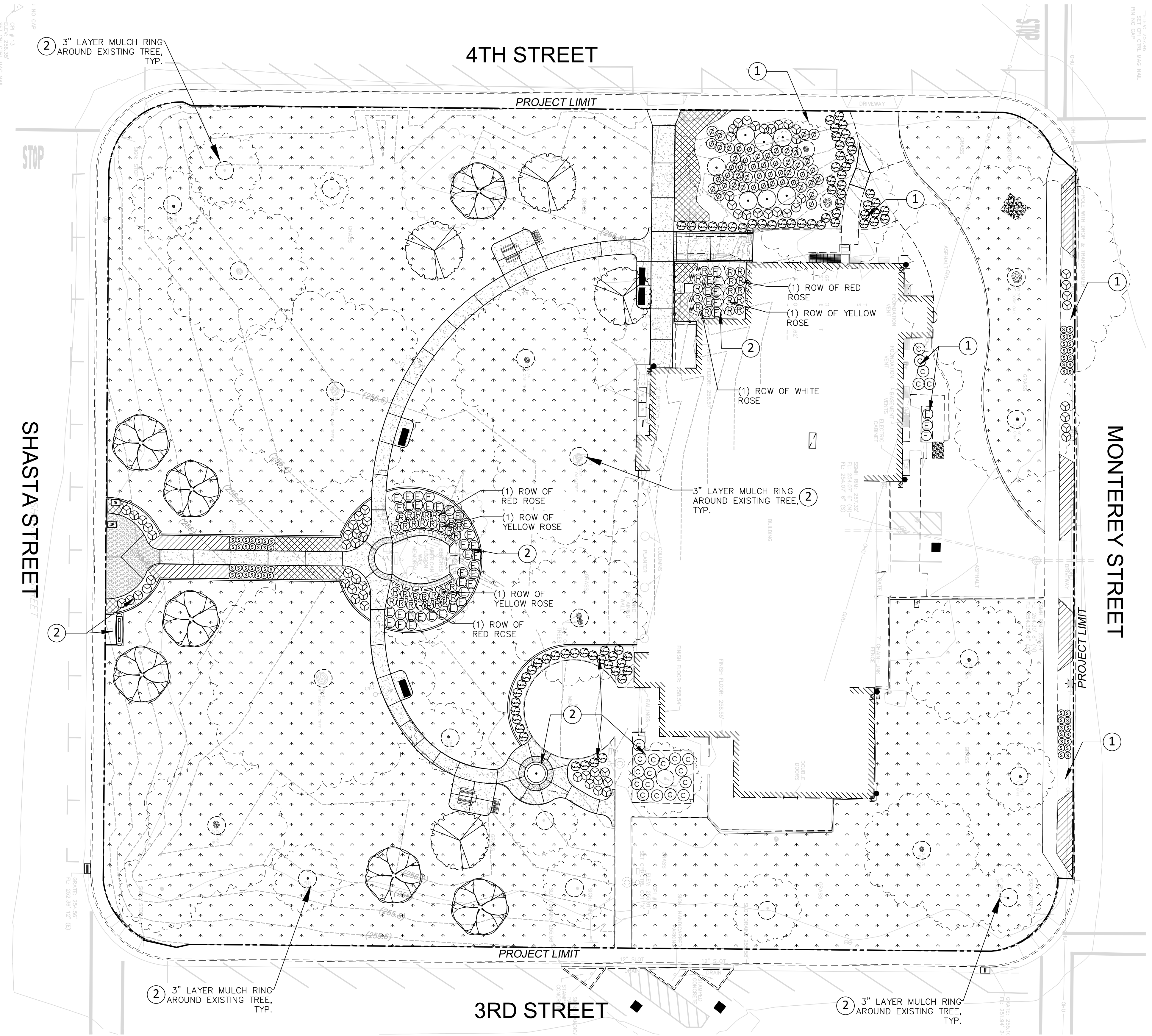
SCALE: AS SHOWN  
DRAWN BY  
DESIGNED BY  
CHECKED BY

DATE

COUNTY OF GLENN  
GENERAL SERVICES - FACILITIES  
453 E. COUNTY ROAD 49#  
WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT  
IRRIGATION LEGEND AND NOTES





**PLANTING LEGEND**

TREES									
SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	REMARKS	DET.	DWG. NO.	HT. SP.	WUCOLS
	KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	24" BOX	7	STANDARD	4	CD-3	40' 30"	M
	LAGERSTROEMIA X. FAURIEI 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	24" BOX	4	STANDARD	4	CD-3	20' 20"	L

**SHRUBS & GROUNDCOVERS**

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	REMARKS	DET.	DWG. NO.	HT. SP.	WUCOLS
	ALOE STRIATA	CORAL ALOE	5 GAL.	58	SPACING PER PLAN	5	CD-3	2'-3" 2'-3"	L
	ROSA FLORIBUNDA	ROSE (R) RED, (Y) YELLOW (W) WHITE	5 GAL.	47	SPACING PER PLAN	5	CD-3	3' 4'	L
	MUHLENBERGIA CAPILLARIS 'PINK MUHLY'	PINK MUHLY GRASS	5 GAL.	49	SPACING PER PLAN	5	CD-3	1'-2" 3'-4"	L
	DIANELLA CAERULEA 'CASA BLUE'	FLAX LILY	5 GAL.	28	SPACING PER PLAN	5	CD-3	18"-24" 18"-24"	L
	AGAVE 'BLUE FLAME'	BLUE FLAME AGAVE	5 GAL.	7	SPACING PER PLAN	5	CD-3	3'-4" 3'-4"	L
	CALLISTEMON CITRINUS 'LITTLE JOHN'	DWARF LEMON BOTTLEBRUSH	5 GAL.	76	SPACING PER PLAN	5	CD-3	3' 3'	L
	EPILOBIUM CANUM	CALIFORNIA FUSCHIA	5 GAL.	45	SPACING PER PLAN	5	CD-3	1'-2" 2'-3"	L
	CEANOTHUS CONCHA	CONCHA CEANOTHUS	5 GAL.	21	SPACING PER PLAN	5	CD-3	3'-6" 3'-6"	L
	SEDUM RUPESTRE 'ANGELINA'	ANGELINA SEDUM	1 GAL.	198	SPACING @ 24" O.C.	5	CD-3	6" 36"	L
	APTENIA CORDIFOLIA 'VARIEGATA'	VARIEGATED BABY ROSE	1 GAL.	185	SPACING @ 24" O.C.	5	CD-3	12" 24"	L
	PREMIUM RTF BLEND	TURF SOD		61,041 SF					

WUCOLS: WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES  
H: HIGH M: MODERATE L: LOW

**GENERAL NOTES:**

- VERIFY EXACT TREE SPECIES INCLUDING VARIETY AND TREE LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL CHALK LAYOUT SHRUB MASSES, AND GROUNDCOVERS WITHIN THE PLANTING AREAS AND VERIFY WITH ENGINEER PRIOR TO INSTALLATION.
- QUANTITIES SHOWN ON LEGEND ARE FOR CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY EXACT QUANTITY OF EACH SHRUB & GROUNDCOVER SPECIES WITH ENGINEER PRIOR TO COMMENCING PLANTING INSTALLATION.
- ALL PLANTING BACKFILL AMENDMENTS SHALL BE SUPPLEMENTED WITH "MYCO TABS" MANUFACTURED BY TRI-C (800) 927-3311 <https://www.tri-corganics.com/contact> BACKFILL MIXTURE SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS.
- PLANTING AREA SHALL BE INSTALLED WITH 3-INCH LAYER OF DECOMPOSED GRANITE. COLOR: CONTRACTOR SHALL SUBMIT 1/2-GAL. SAMPLE BAG OF EACH COLOR GOLD AND BROWN OF DECOMPOSED GRANITE TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR SHALL FURNISH AND INSTALL 3-INCH LAYER OF REDWOOD CHIPS (LARGE GRIND) AS TOP DRESS IN PLANTING AREAS AS INDICATED ON THE PLAN AND MULCH RING (6" WIDE) AROUND ALL EXISTING TREE TRUNKS. REDWOOD CHIPS AVAILABLE THROUGH RECYCLED WOOD PRODUCTS. (877)GROW RWP [hank@rwpmulch.com](mailto:hank@rwpmulch.com)

**TREES, SHRUBS AND GROUNDCOVER PROCUREMENT**

WITHIN 15 CALENDAR DAYS OF THE AWARD OF CONTRACT, CONTRACTOR SHALL CONDUCT A PLANT AVAILABILITY SEARCH TO DETERMINE THE PLANT SPECIES, CONTAINER SIZE, AND QUANTITY AS SHOWN ON THE LEGEND WILL BE AVAILABLE AT THE TIME OF PLANT INSTALLATION.

IF NOT AVAILABLE FOR PROCUREMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACT GROW. AT THE CONTRACTOR'S EXPENSE, ALL THE PLANTS LISTED ON THE PLANTING LEGEND. CONTRACTOR SHALL PROVIDE TO THE CITY AN INVOICE OF ALL THE LISTED PLANTS THAT WILL BE CONTRACT GROWN AND/OR RESERVED. THE PROCUREMENT INVOICE STATEMENT SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL WITHIN 15 DAYS OF AWARD OF CONTRACT.

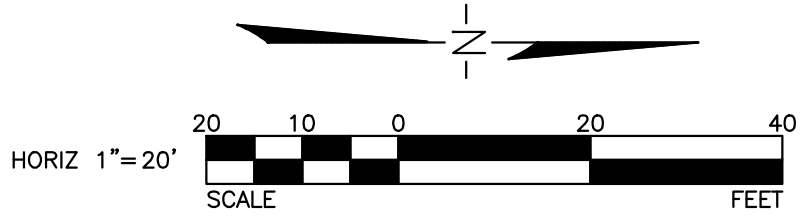
**LANDSCAPE CONSTRUCTION NOTE**

- FURNISH AND INSTALL 3-INCH LAYER OF DECOMPOSED GRANITE. SEE GENERAL NOTE NO. 5.
- FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED REDWOOD MULCH. SEE GENERAL NOTE NO. 6.

"I AGREE TO COMPLY WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN"

*[Signature]*  
LANDSCAPE ARCHITECT

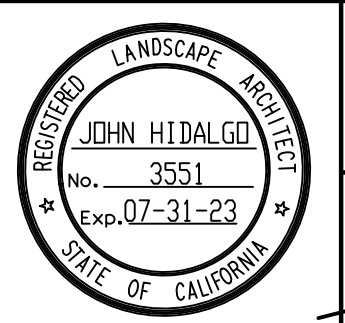
5/24/2023  
DATE



Plotted By: bnguyen  
 W:\WC-CA\Glenn\_County\_of\111685-GlennCo\_Gen\_Srv\_Park\800-PS&K\901-Plans\ORLAND\Orland\_Planting\_Plan.dwg May 25, 2023 - 12:46pm  
 DIAL/DIG-ON 12 WORKING DAYS BEFORE YOU DIG  
 www.usanorth811.org DIAL: 811  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT  
 Know what's below. Call before you dig.



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN** ENGINEERING TRUSTED  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF  
*[Signature]*  
 JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY  
 DESIGNED BY  
 CHECKED BY

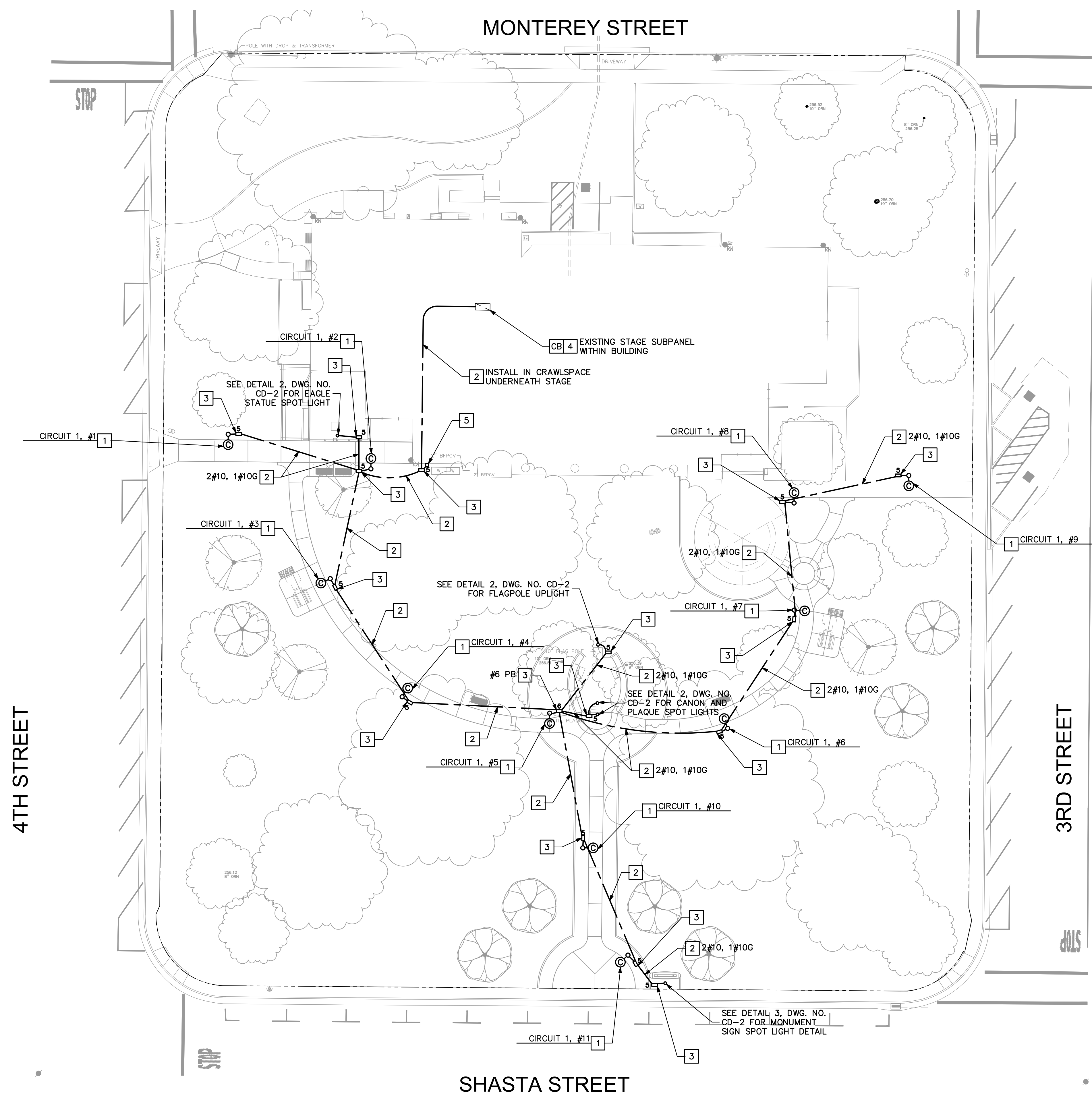
DATE

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49th  
 WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 PLANTING PLAN

SHEET  
 9  
 OF  
 15  
 DWG. NO.  
 PP-1



**GENERAL NOTES**

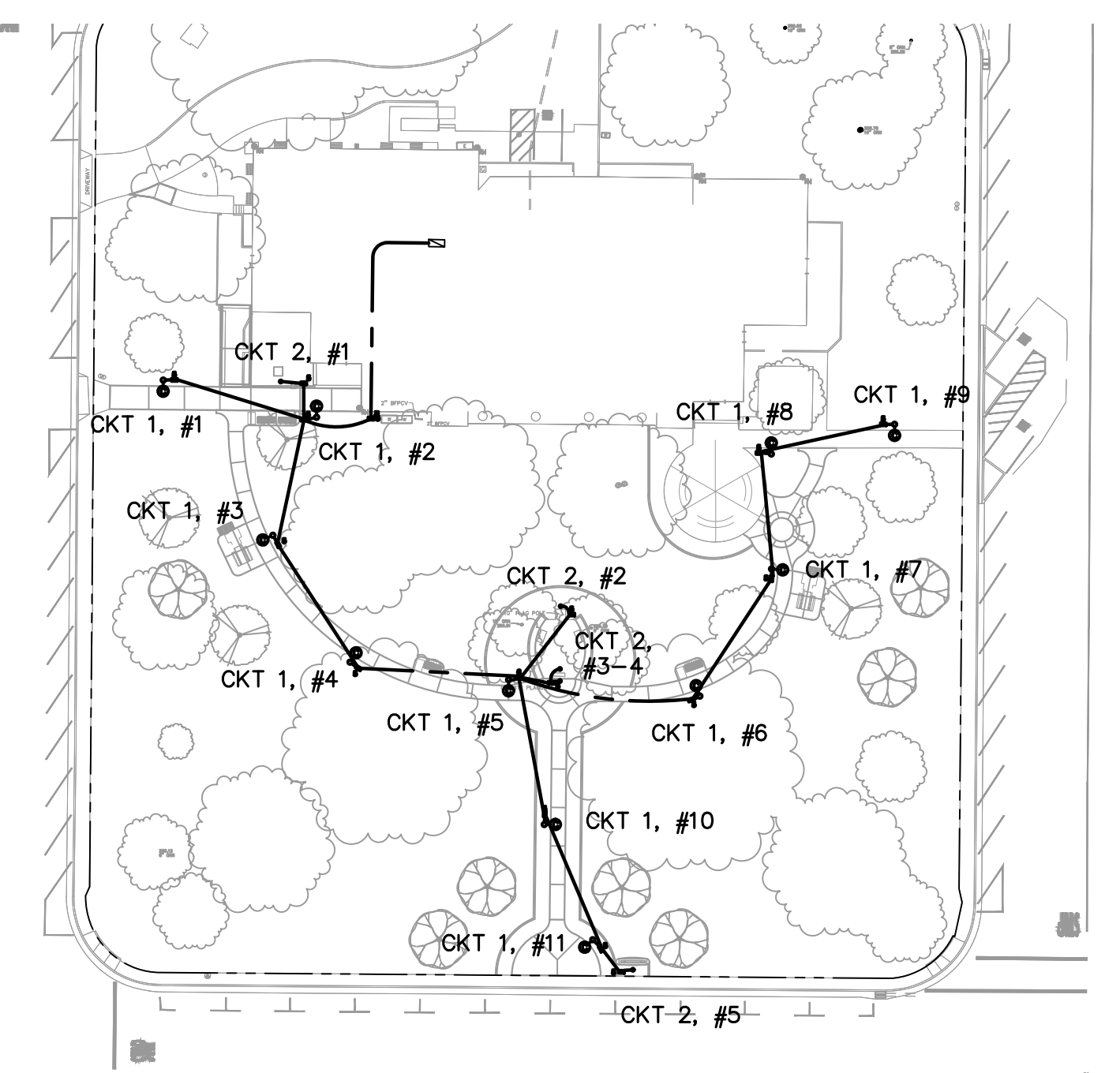
1. ALL WORK, MATERIAL, AND EQUIPMENT FOR LIGHTING AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION, SPECIAL PROVISIONS, AND OTHER CONTRACT DOCUMENTS.
2. ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. LOCATE ALL SUBSTRUCTURES PRIOR TO CONSTRUCTION. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. CONTACT UNDERGROUND SERVICE ALERT AT 811, 48 HOURS PRIOR TO CONSTRUCTION.
4. ALL EQUIPMENT LOCATIONS SHALL BE APPROVED BY THE ENGINEER IN THE FIELD OR HIS/HER DESIGNATED REPRESENTATIVE IN THE FIELD PRIOR TO INSTALLATION.
5. THE LOCATION/RUN OF EXISTING CONDUITS COULD NOT BE VERIFIED BASED ON AVAILABLE DATA. CONDUIT RUNS ARE SHOWN SCHEMATICALLY BASED ON CIRCUIT LAYOUT.
6. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY FACILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT HIS/HER OWN EXPENSE.
7. CONDUIT SHALL BE 2" DIAMETER PVC SCHEDULE 80, UNLESS OTHERWISE SPECIFIED. CONDUIT SHALL BE INSTALLED AT MINIMUM DEPTH OF 30" BELOW PAVED SURFACE AND 18" BELOW PARKWAY.
8. DECORATIVE LIGHT POLES AND FIXTURES PER SOUTH COAST LIGHTING DESIGN. FOR PRODUCT INFORMATION CONTACT MR. KEVIN SAKAMOTO AT (949) 689-6990.
9. LIGHTS SHALL BE 24" FROM EDGE OF PATH TO THE CENTER OF THE POLE, UNLESS OTHERWISE NOTED.

**CONSTRUCTION NOTES:**

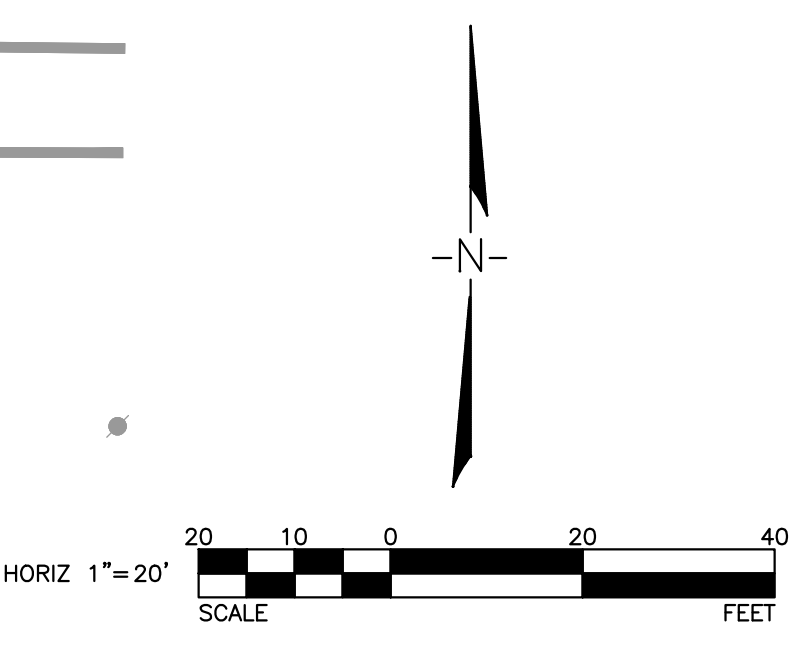
1. INSTALL 15' DECORATIVE LIGHT POLE WITH SINGLE ARM 3,399 LUMEN LED LUMINAIRE ON 24" PIER FOUNDATION, UNLESS OTHERWISE NOTED. SEE DWG. NO. E-2.
2. INSTALL 2" CONDUIT WITH 4#10 AND 1#10G CONDUCTORS, UNLESS OTHERWISE NOTED.
3. INSTALL #5 PULL BOX, UNLESS OTHERWISE NOTED.
4. INSTALL NEW BREAKERS IN EXISTING SERVICE PEDESTAL. NEW CIRCUIT BREAKERS SHALL INCLUDE THE FOLLOWING:  
1-20A, 2P METERED LIGHTING  
1-20A, 2P METERED SPOT LIGHTING
5. INSTALL EXTERIOR PHOTOELECTRIC CELL AND TEST SWITCH.

--- 2" SCH 80 PVC CONDUIT  
 ○ 15' DECORATIVE LIGHT POLE (CATALOG NO. RSP-15-4R-11G-3430) WITH SINGLE ARM (CATALOG NO. A12 SIGNLE 180' AND 3,399 LUMEN LED LUMINAIRE. (CATALOG NO. SCLTG-CAL-S-TP3-S5-32L-35-30K-FSP-20). SEE DETAIL 1, DWG. NO. E-2.

XX CIRCUIT, LIGHT #  
 □ #5 PULL BOX WITH THEFT-PROOF LOCKING LID



**CIRCUIT DIAGRAM**  
NTS



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**811**  
 USANORTH811.ORG  
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REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER  
 JEFFREY C. LEU  
 No. 83887  
 Exp. 09-30-23  
 CIVIL  
 STATE OF CALIFORNIA

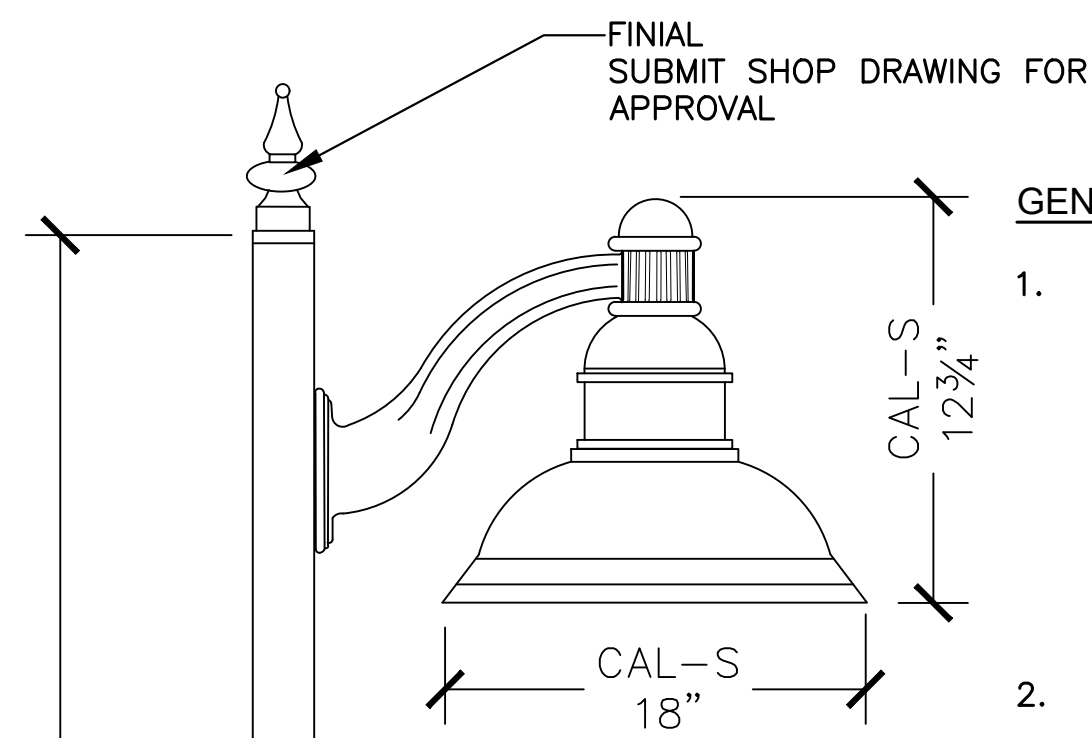
**WILLDAN Engineering** COMPREHENSIVE INNOVATIVE TRUSTED  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644  
 PREPARED UNDER THE SUPERVISION OF  
 JEFFREY C. LEU R.C.E. 83887 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY KC  
 DESIGNED BY KC  
 CHECKED BY JL

COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49 1/2  
 WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 LIGHTING PLAN

SHEET 10 OF 15  
 DWG. NO. E-1

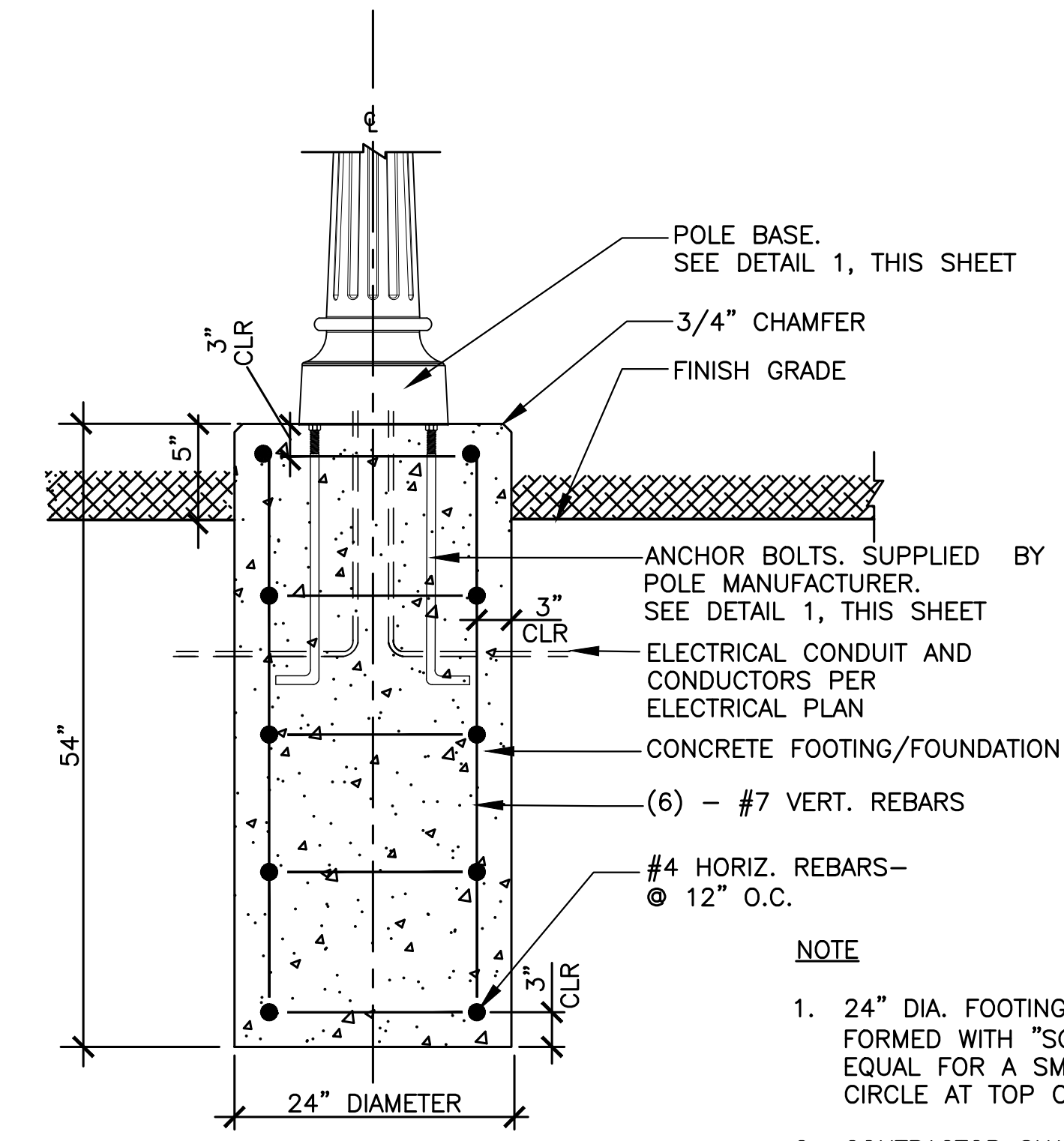
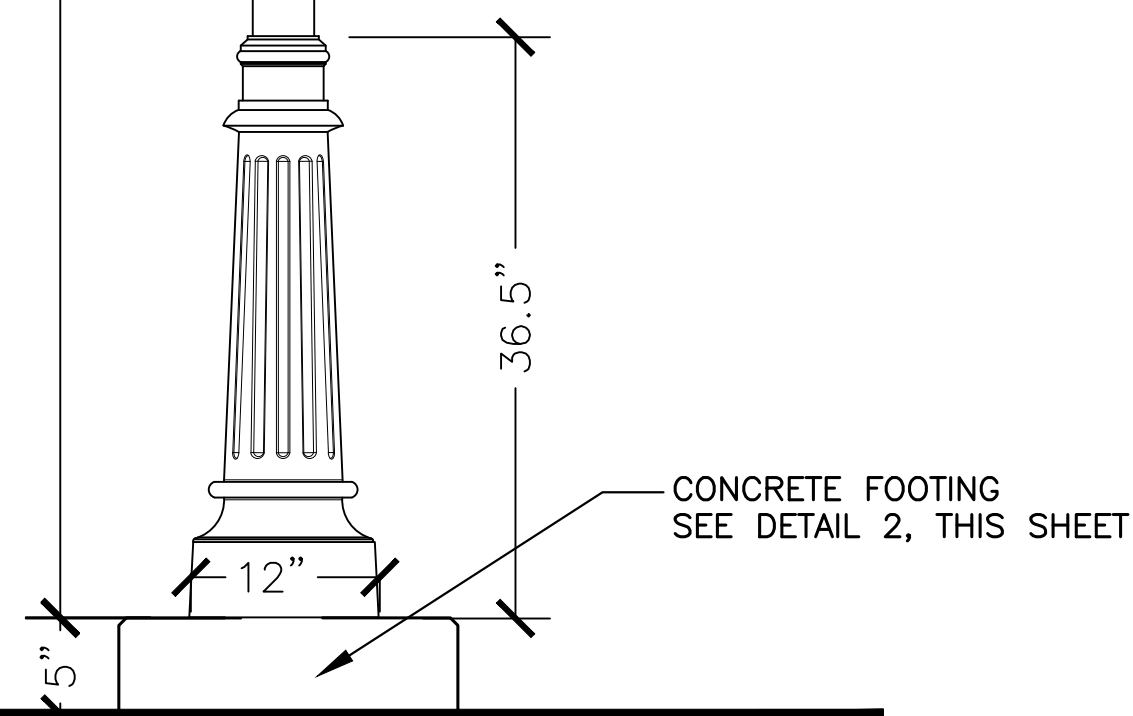


**GENERAL NOTES:**

1. PATH LIGHT POLE ASSEMBLY AVAILABLE FROM SOUTH COAST LIGHTING & DESIGN. CONTACT KEVIN SAKAMOTO (949) 689-6990 kevin@southcoastlighting.com FOR PURCHASING AND TECHNICAL ASSISTANCE. COLOR FOR POLE AND ATTACHMENT ASSEMBLY SHALL BE CITY SELECT. CONTRACTOR SHALL SUBMIT COLOR CHIPS OF THE FOLLOWING COLORS TO ENGINEER FOR SELECTION:
  - BLACK
  - BRONZE
  - HUNTER GREEN
2. DETAILS SHOWN ARE TO ILLUSTRATE THE INTENDED DESIGN ONLY. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE FABRICATION OF LIGHT POLE ASSEMBLY.
3. VERIFY EXACT LOCATION OF LIGHT POLE FOUNDATION AND LAMP FIXTURE ORIENTATION/DIRECTION WITH THE ENGINEER PRIOR TO INSTALLATION.
4. APPLY CLEAR ANTI-GRAFFITI COATING ON ALL EXPOSED SURFACES OF LIGHT POLE FOOTING/FOUNDATION. MANUFACTURER OF ANTI-GRAFFITI COATING SHALL BE PER SPECIFICATIONS.
5. DUE TO THE SENSITIVE NATURE OF EXISTING UNDERGROUND UTILITY STRUCTURES, CONTRACTOR SHALL MANUALLY EXCAVATE LIGHT POLE FOUNDATION USING HAND SHOVEL. DO NOT USE MECHANICAL DIGGER UNLESS EXPRESSED WRITTEN PERMISSION IS GRANTED BY THE UTILITY COMPANY. CONTRACTOR SHALL POTHOLE FOR ALL UTILITIES PRIOR TO EXCAVATING.
6. ANCHOR BOLTS AND BASE PLATE TEMPLATE SHALL BE SUPPLIED BY THE MANUFACTURER.
7. CONTACT AND COORDINATE WITH DIGALERT 811 TO LOCATE AND MARK ALL UNDERGROUND UTILITY STRUCTURES PRIOR TO COMMENCING EXCAVATION.

**LIGHT SPECIFICATIONS**

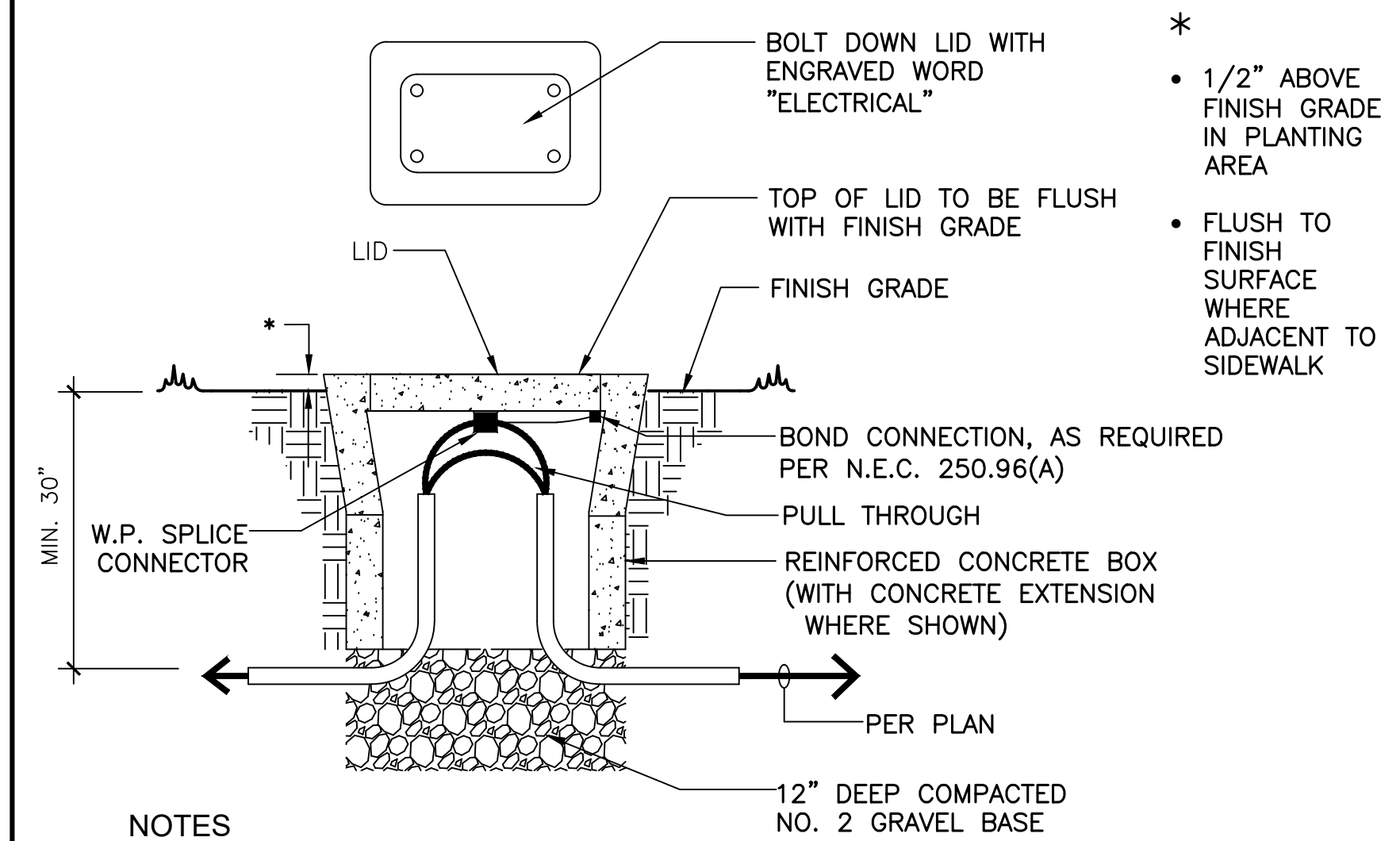
LAMP FIXTURE:  
 SCLTG-CAL-S-TP3-S5-32L-35-30K-FSP-20  
 ARM: A12 SINGLE 180°  
 POLE: RSP-15-4R-11G-3430  
 BASE: DBP-200  
 FINIAL: PER DETAIL  
 INPUT VOLTAGE: 120-277V  
 POWER CONSUMPTION: 33W EACH LAMP



**PATH LIGHT POLE FOUNDATION**

**NOTE**

1. 24" DIA. FOOTING SHALL BE FORMED WITH "SONO-TUBE" OR EQUAL FOR A SMOOTH TRUE CIRCLE AT TOP OF FOOTING.
2. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF FOOTING WITH INSTALLATION OF IRRIGATION SLEEVES. SEE IRRIGATION PLANS.
3. OBTAIN ANCHOR BOLT TEMPLATE FROM SOUTH COAST LIGHTING & DESIGN PRIOR TO FOOTING CONSTRUCTION.



**NOTES**

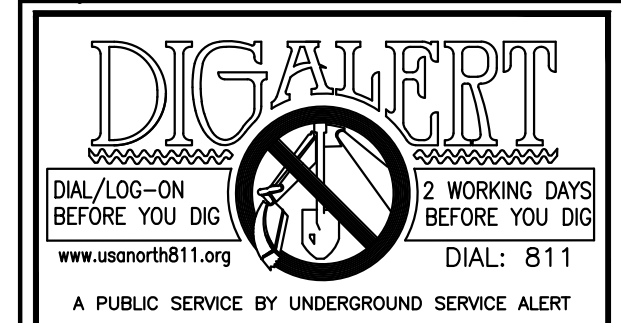
1. ALL LIDS TO BE BOLT DOWN. LIDS TO BE "FIBERLYTE".
2. ALL BOXES TO SET ON MINIMUM 12" COMPACTED GRAVEL BASE WIDTH X LENGTH OF BOX.
3. SPLICES: COPPER CONDUCTOR SPLICES AND TAPS OF #8 AWG AND SMALLER SHALL BE MADE WITH WATERPROOF WIRE NUT CONNECTORS. KING SAFETY PRODUCTS #621, #622 OR #623, WHICH ARE THREE SIZES (OR EQUAL) THESE WIRE NUTS ARE U.L. LISTED FOR "WET" LOCATIONS AND CONTAIN A SEALANT PASTE.
4. COPPER CONDUCTOR SPLICES OF #6 AWG AND LARGER SHALL BE MADE WITH SPLIT-BOLT CONNECTORS SUCH AS BURNDY "SERVIT" (OR EQUAL) WITH DOUBLE WRAPPED "SCOTCH" #33+ ALL WEATHER VINYL PLASTIC ELECTRICAL TAPE OR WITH "E-Z SEAL" #2200 VINYL INSULATING PADS, BY 3M, OR WITH SIERRA/TOMIC #4000 VINYL SEAL PADS.
5. PULL BOX SHALL BE SIZED TO FIT. PULL BOX SIZING TO BE PER CEC, 314.28, LATEST EDITION.
6. INSTALL PULL BOX MIN. 6" FROM ANY DRIVEWAY EDGE AND 4" MIN FROM CURBS OR PER CIVL REQ'S.

**2 PEDESTRIAN PATH LIGHT FOOTING**

**NTS 3 ELECTRICAL PULL BOX**

**1 DECORATIVE PEDESTRIAN PATH LIGHT**

**NTS**



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



**WILLDAN Engineering** COMPREHENSIVE INNOVATIVE TRUSTED  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644

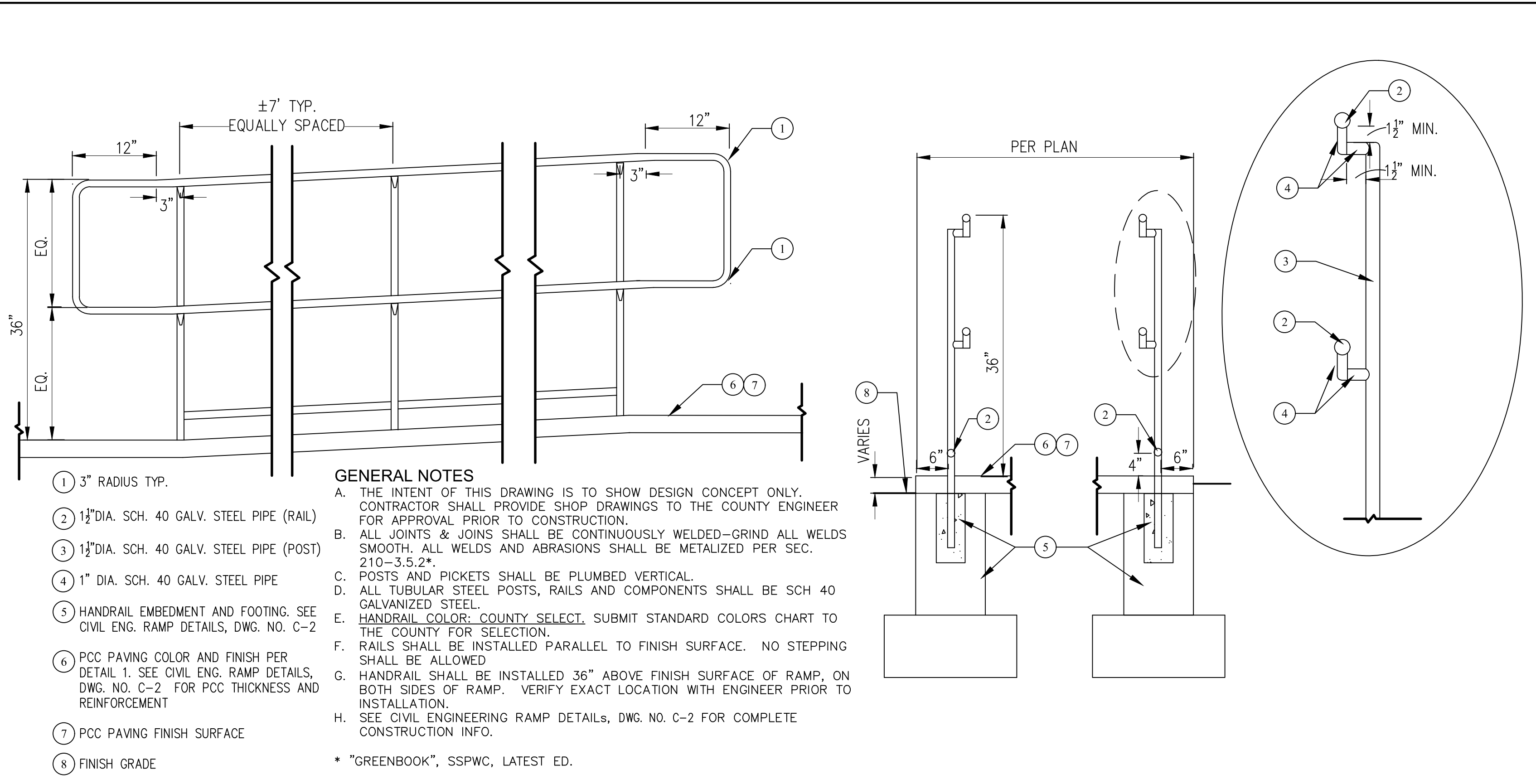
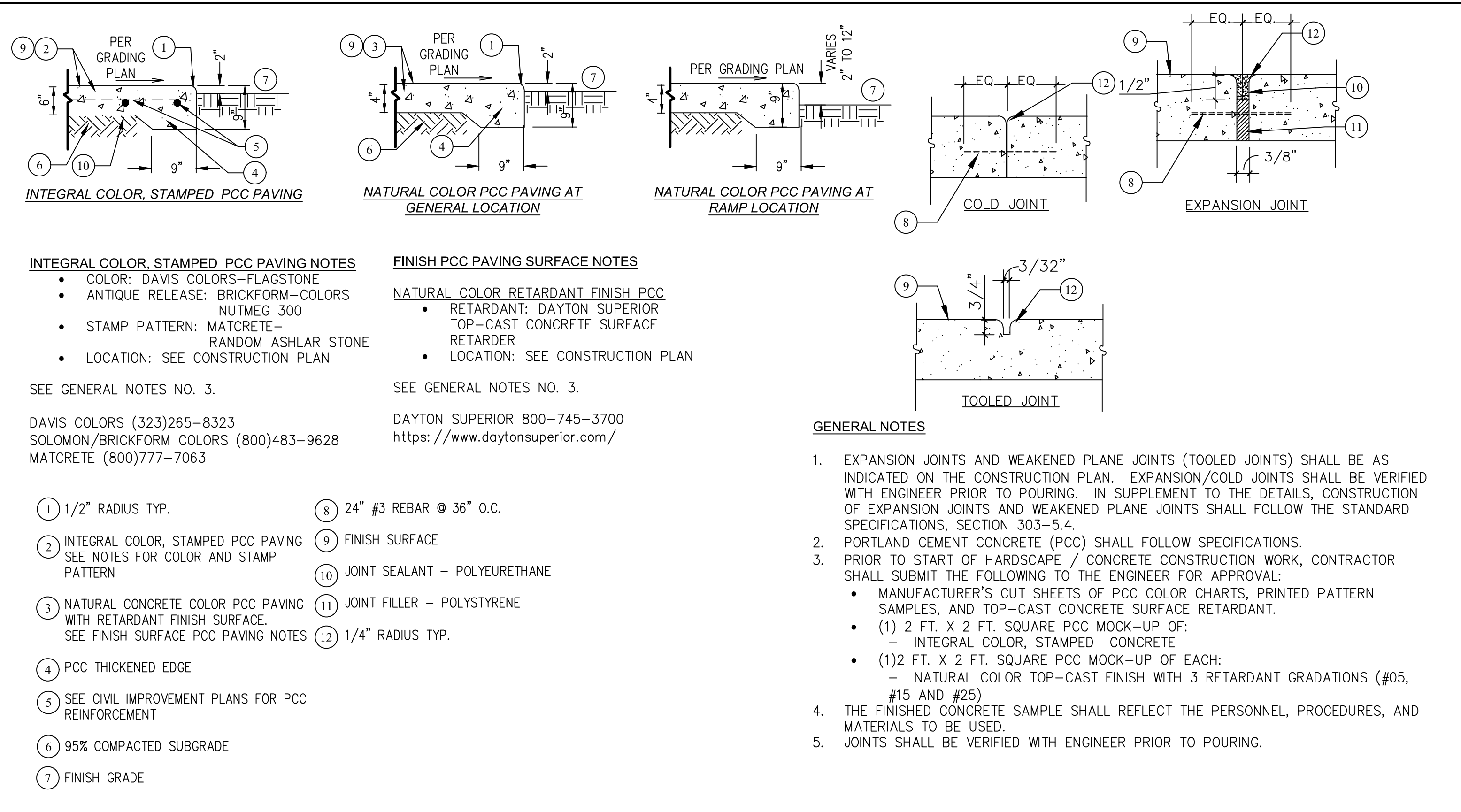
PREPARED UNDER THE SUPERVISION OF  
 Jeffrey C. Liu, R.C.E. 83887, 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY: KC  
 DESIGNED BY: KC  
 CHECKED BY: JL

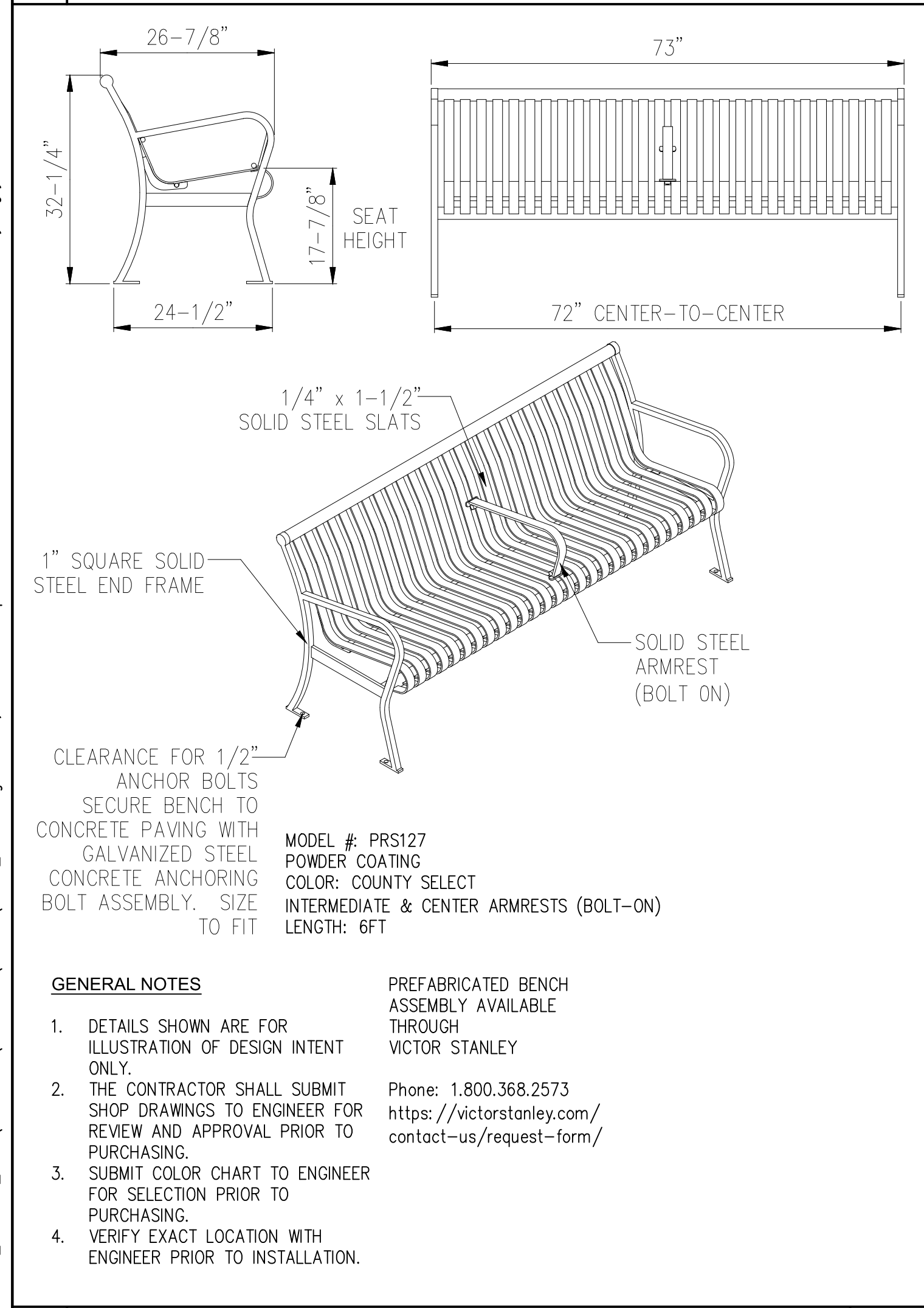
COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49 1/2  
 WILLOWS, CALIFORNIA 95988

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
 ELECTRICAL DETAILS

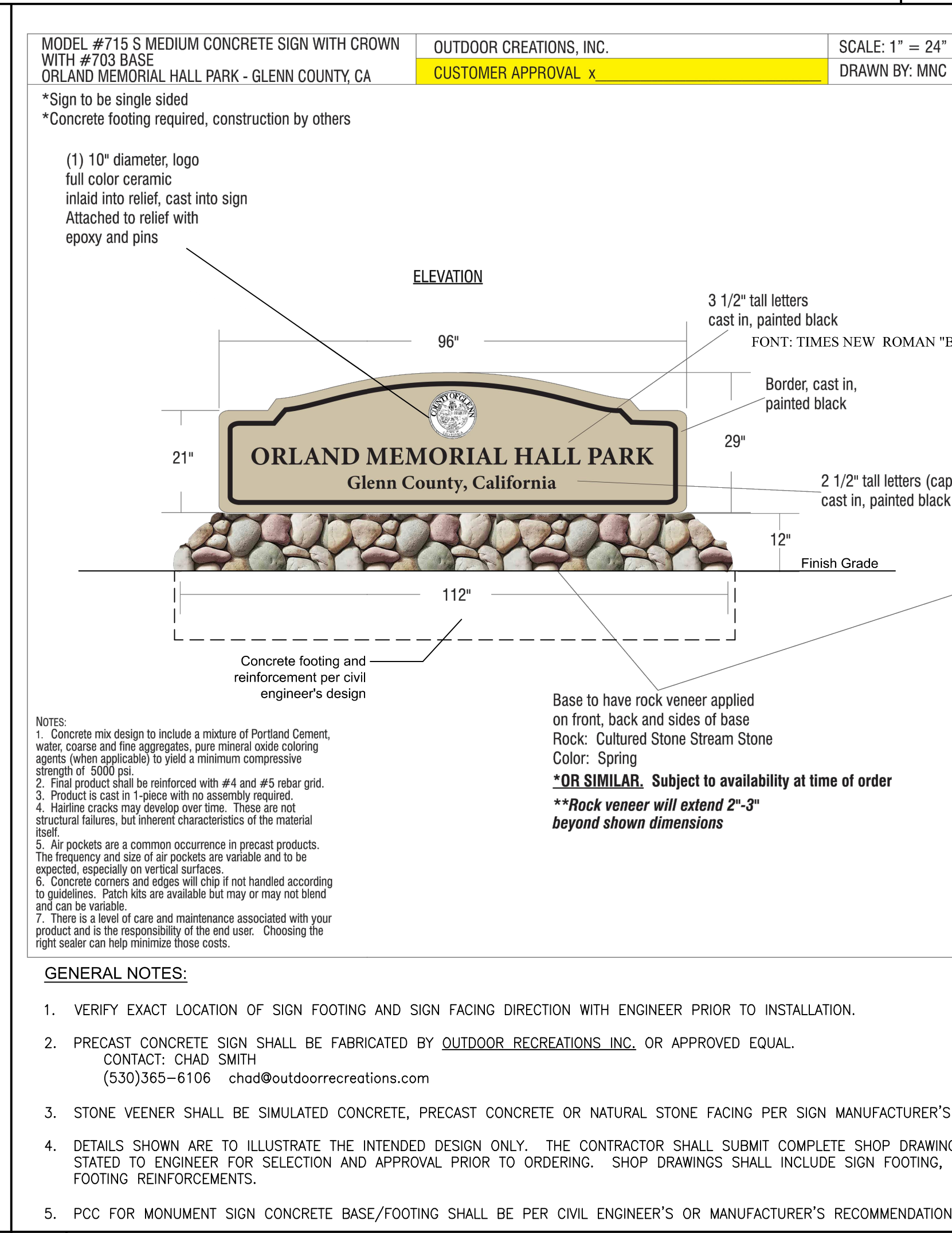
SHEET 11 OF 15  
 DWG. NO. E-2



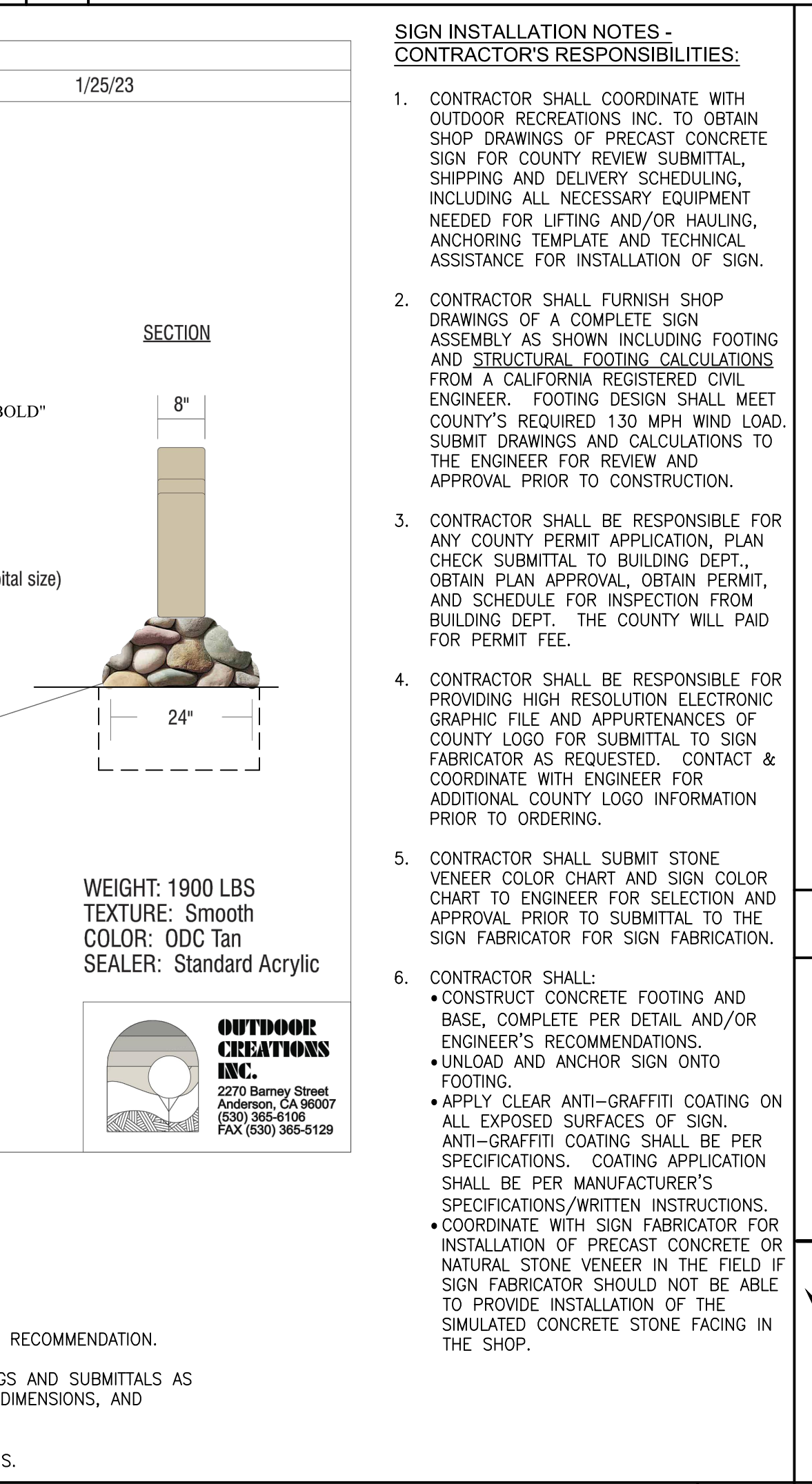
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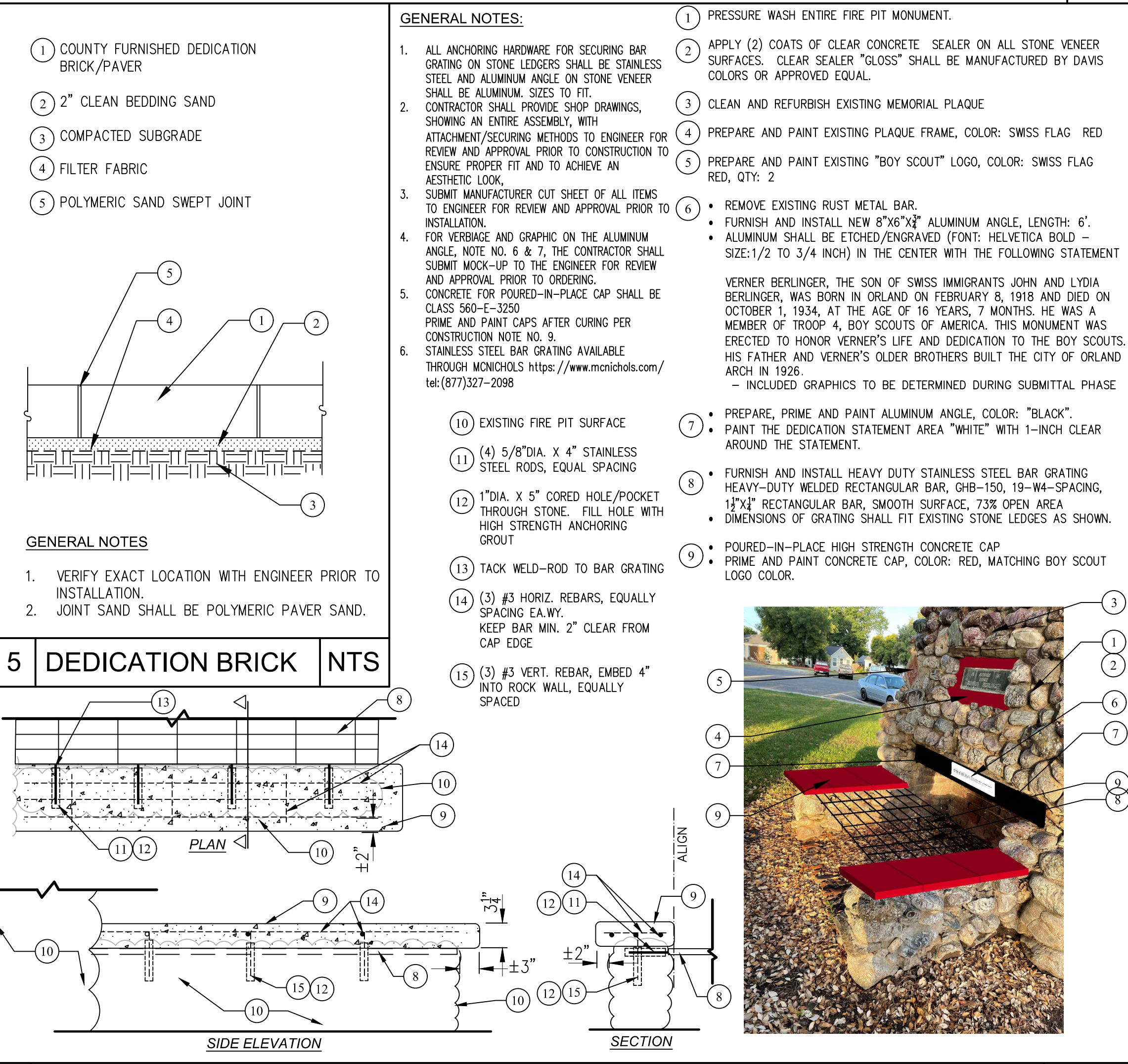
**2 NTS PRECAST CONCRETE MONUMENT SIGN**



**5 DEDICATION BRICK**



**6 NTS BOY SCOUT FIRE PIT MONUMENT**



**3 PREFABRICATED BENCH**

**4 NTS PRECAST CONCRETE MONUMENT SIGN**

**5 DEDICATION BRICK**

**6 NTS BOY SCOUT FIRE PIT MONUMENT**

**DIG ALERT**

811

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REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**WILLDAN Engineering**

2240 Douglas Boulevard, Suite 270, Roseville, California 95661

916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF

*John Hidalgo*

JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN	DATE
DRAWN BY BN	6/2/2023
DESIGNED BY BN	6/2/2023
CHECKED BY JH	6/2/2023

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

**COUNTY OF GLENN GENERAL SERVICES - FACILITIES**

453 E. COUNTY ROAD 49th

WILLOWS, CALIFORNIA 95968

**ORLAND MEMORIAL PARK**

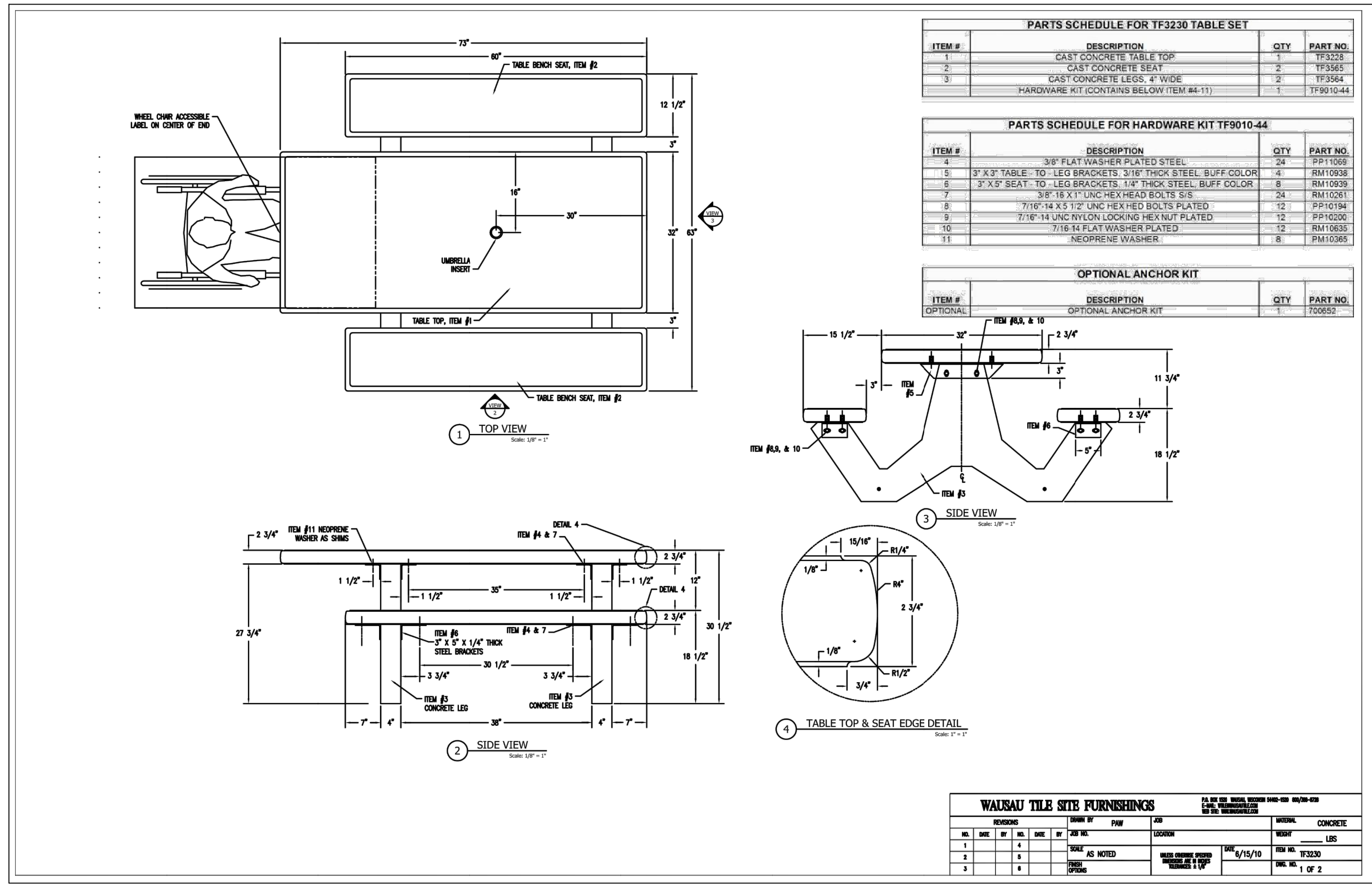
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

**CONSTRUCTION DETAILS**

SHEET 12 OF 15

DWG. NO. CD-1

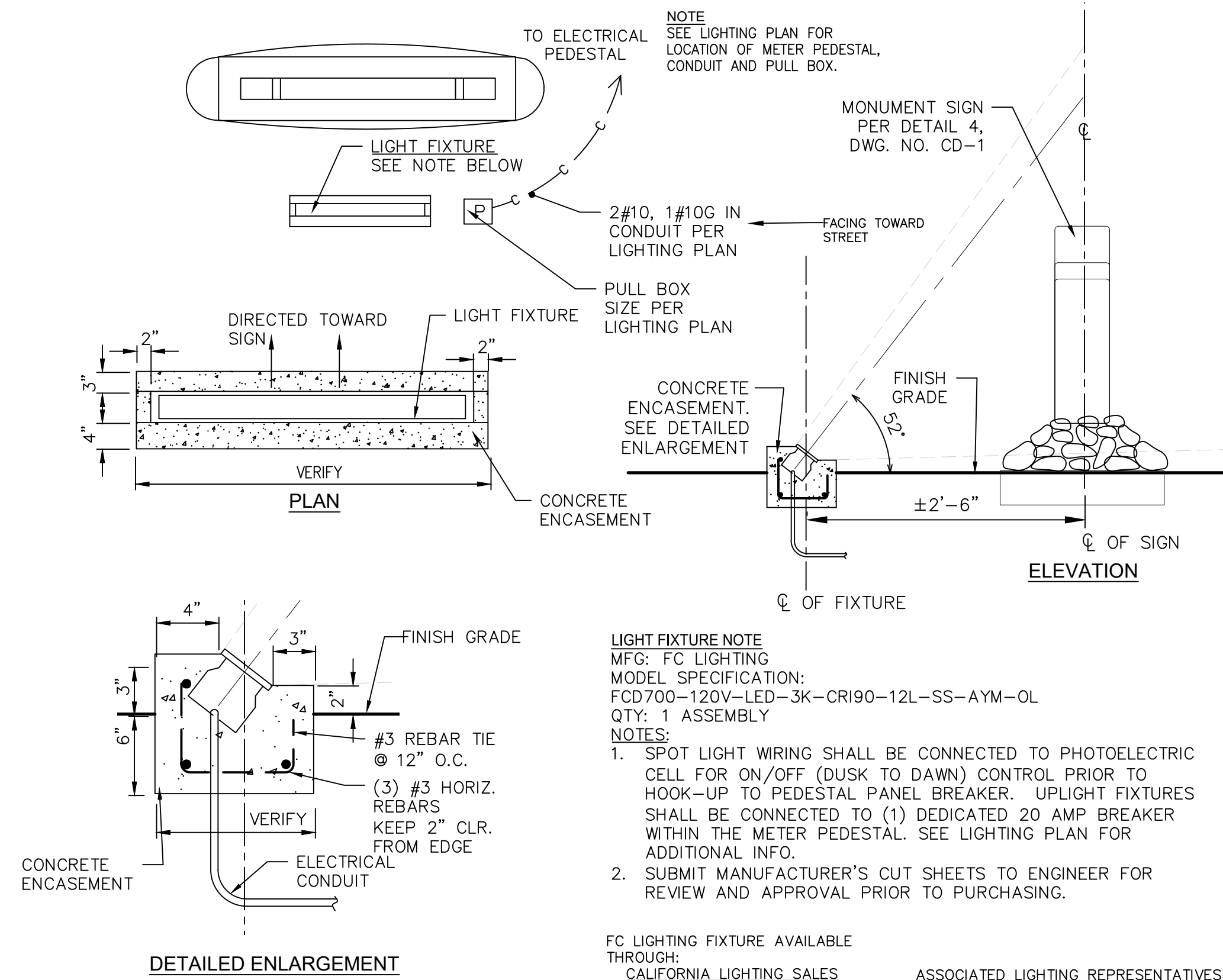
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 Plotted By: bnguyen



**GENERAL NOTES**

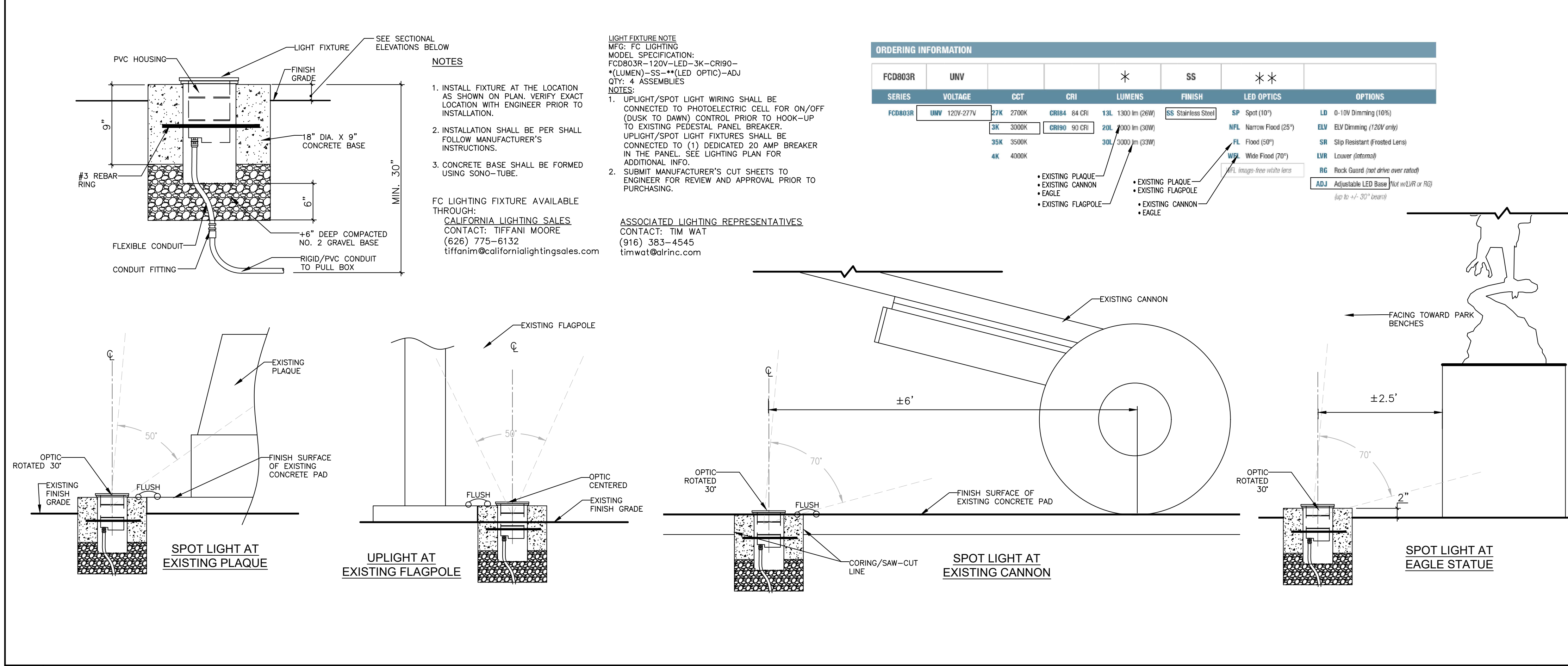
- DETAILS SHOWN ARE FOR ILLUSTRATION OF DESIGN INTENT ONLY.
- SUBMIT MANUFACTURER'S CUT SHEETS AND COLOR CHART TO ENGINEER FOR SELECTION PRIOR TO PURCHASING.
- VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
- TABLE ASSEMBLING SHALL FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CONTRACTOR SHALL PROVIDE ADDITIONAL HARDWARE AND ANCHOR TABLE TO CONCRETE SLAB PER MANUFACTURER'S SPECIFICATIONS.

MANUFACTURER: WASAULT  
 TABLE MODEL: TF3230  
 FINISH: G20 WHITE  
 ANDRES DIAZ-NORERO  
 Phone: 949-329-2250  
 Cell: 916-290-6646  
 AndresD@visionsalesgroup.com



**1 PRECAST CONCRETE PICNIC TABLE**

NTS



**2 SPOT LIGHT/UPLIGHT DETAILS**

**3 PRECAST CONCRETE MONUMENT SIGN SPOT LIGHT**

**DIG ALERT**  
 811  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

**REVISIONS**

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**WILLDAN Engineering**  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF  
  
 JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY: BN  
 DESIGNED BY: BN  
 CHECKED BY: JH

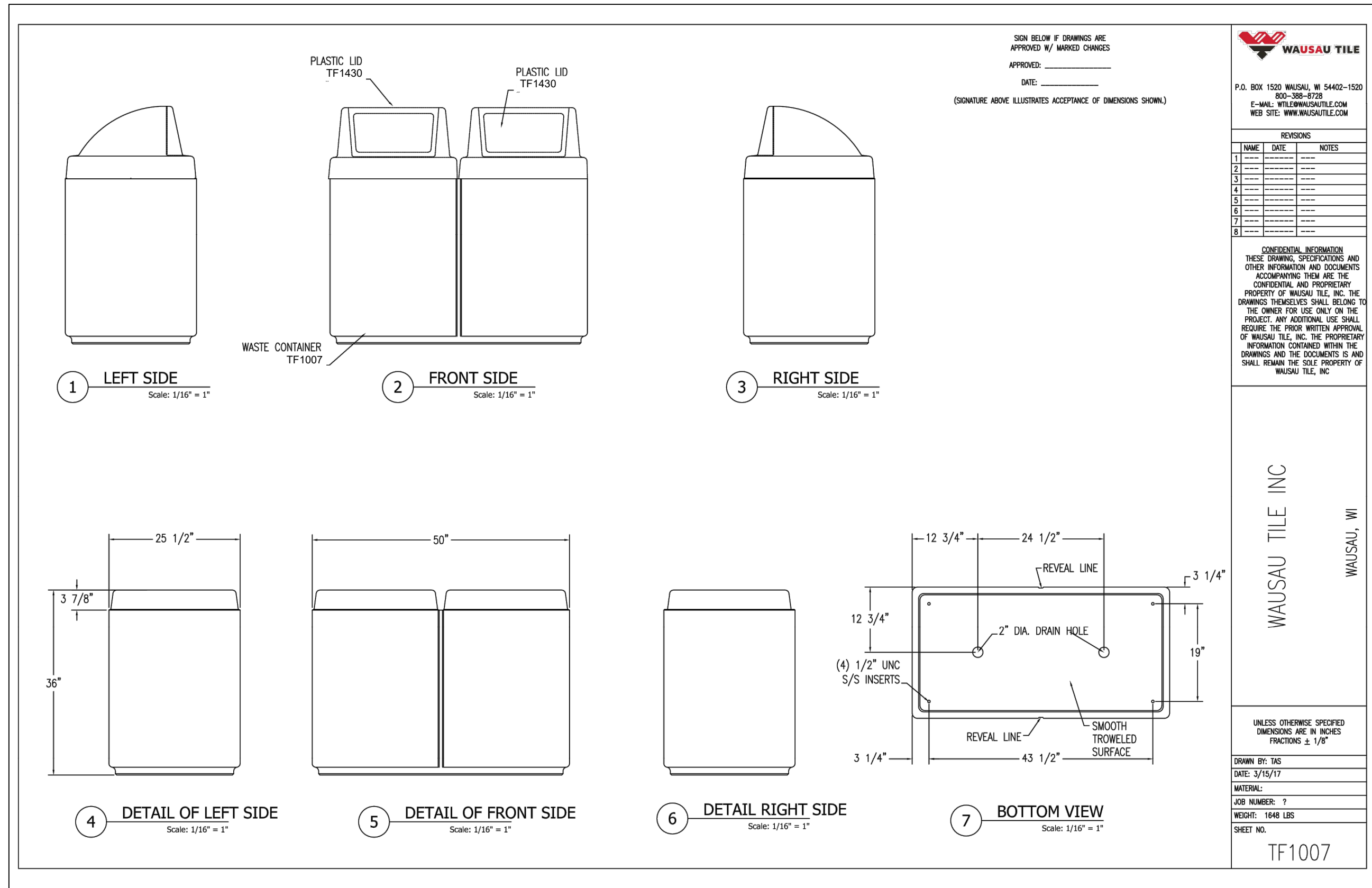
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49th  
 WILLOWS, CALIFORNIA 95968

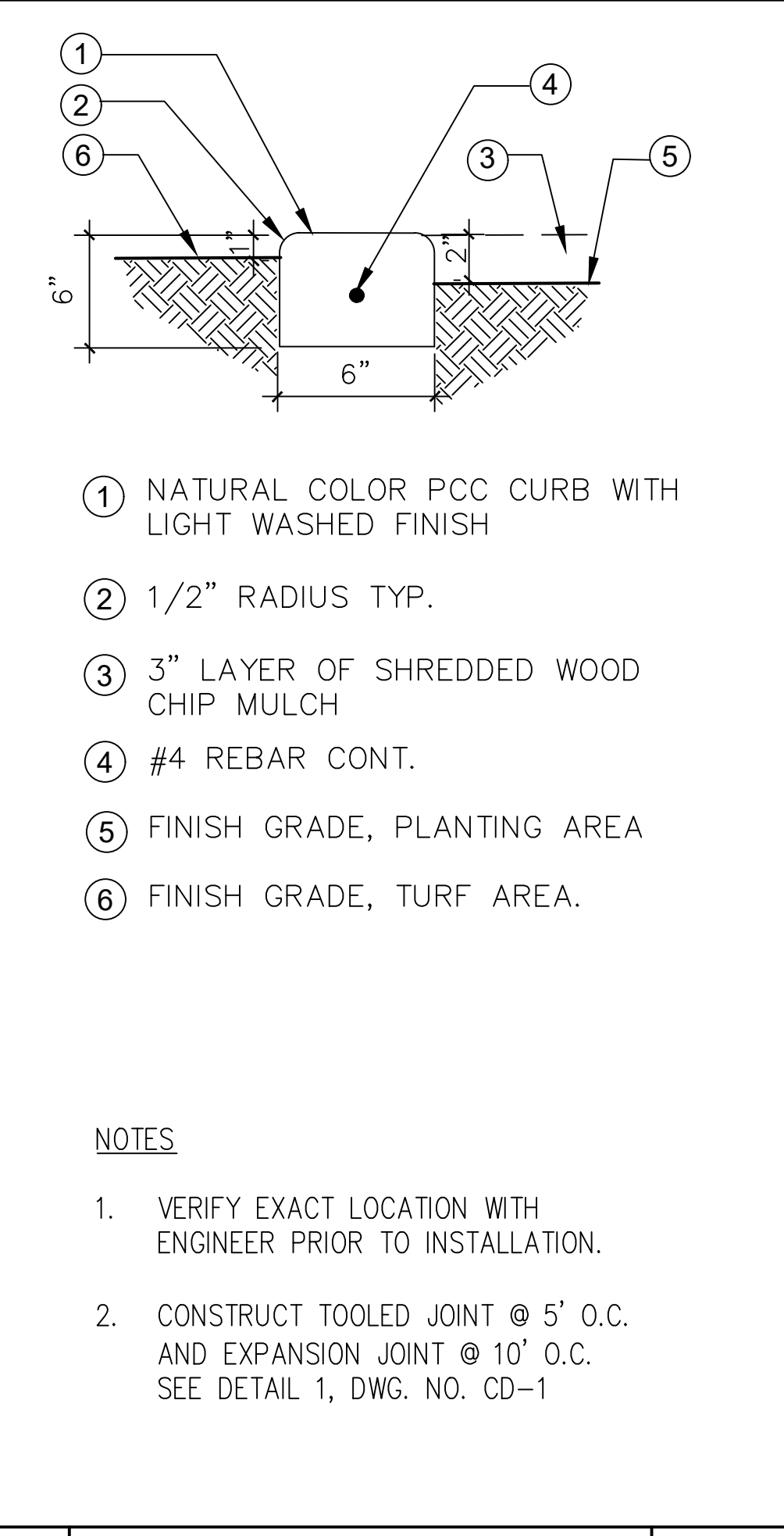
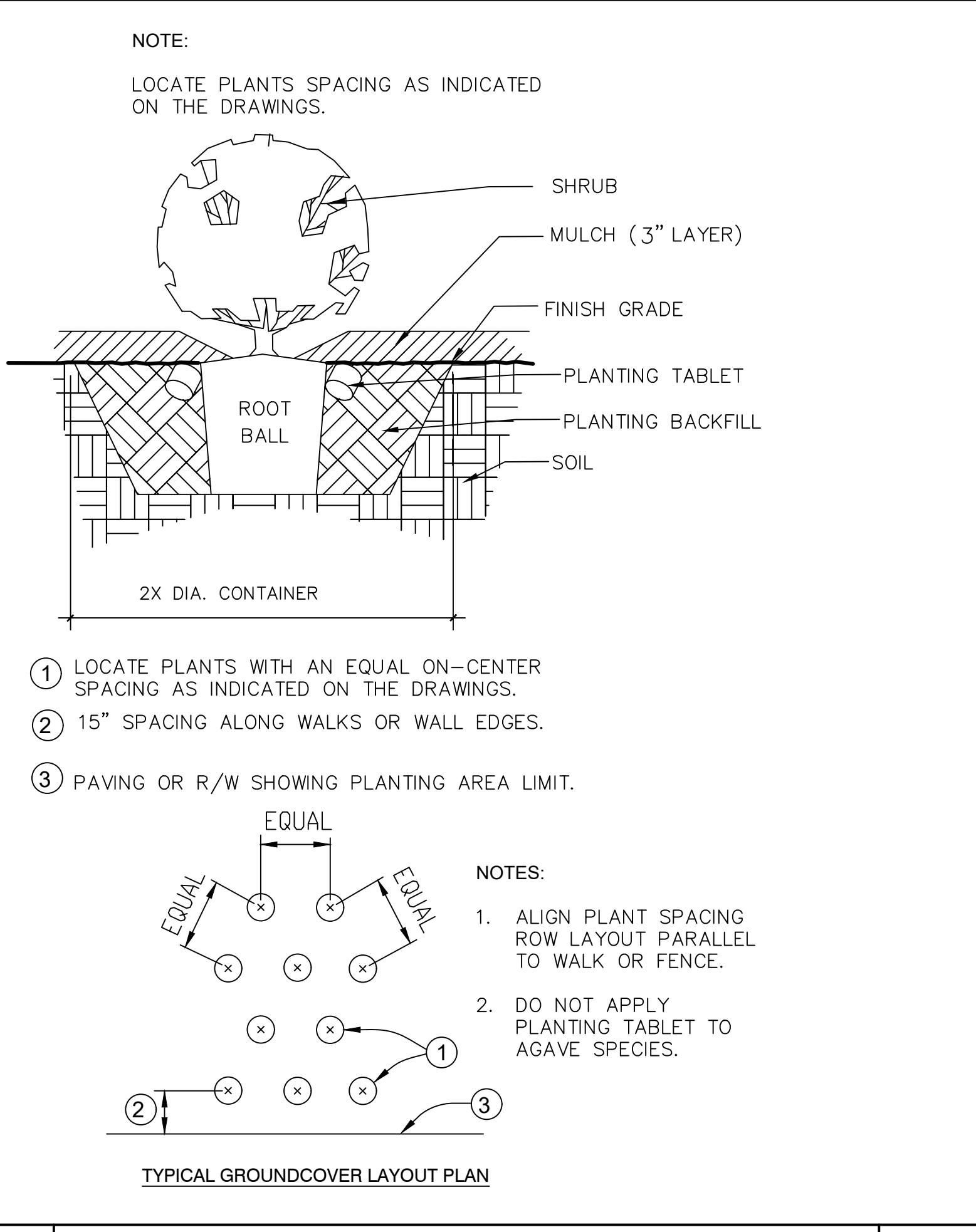
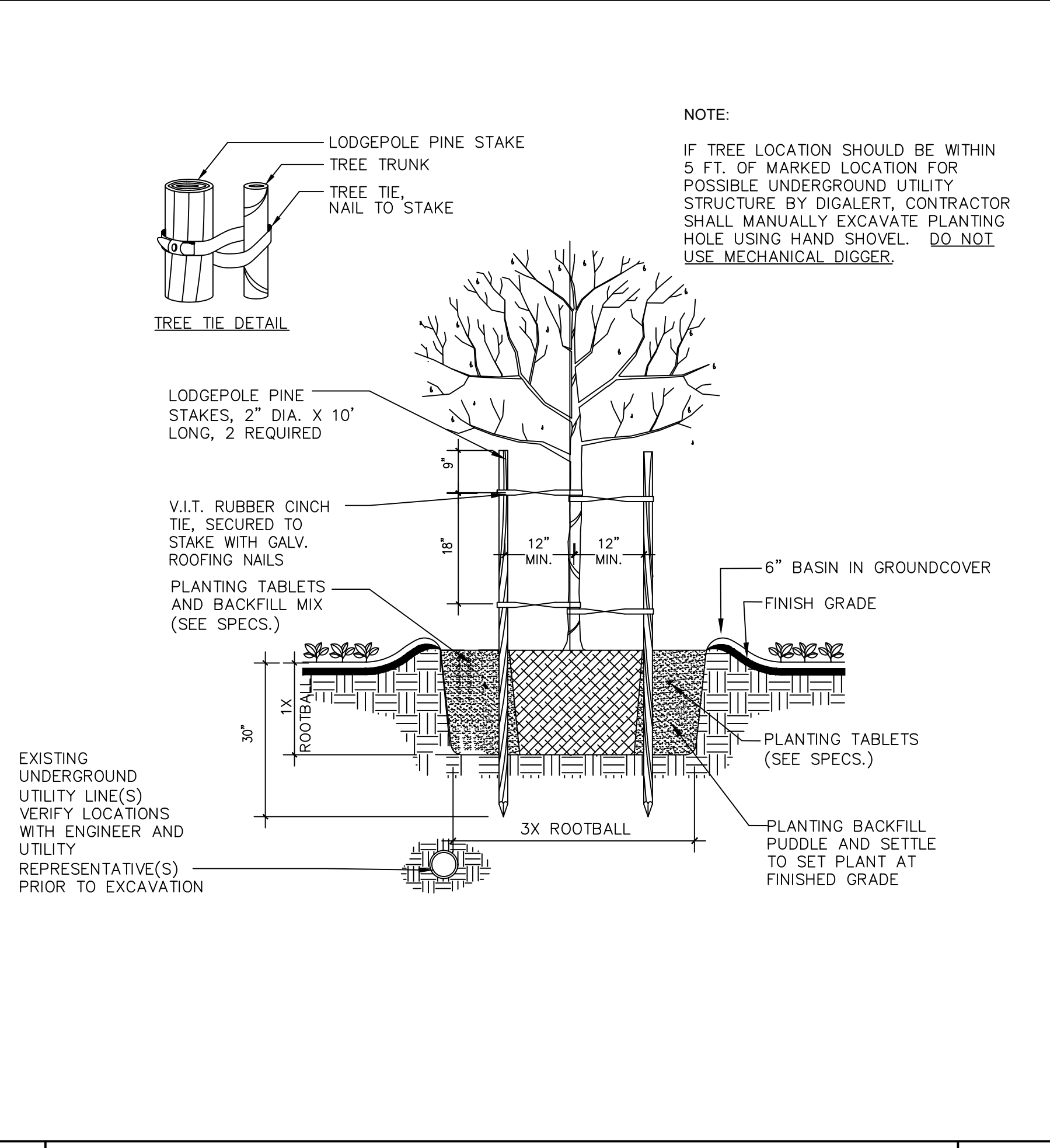
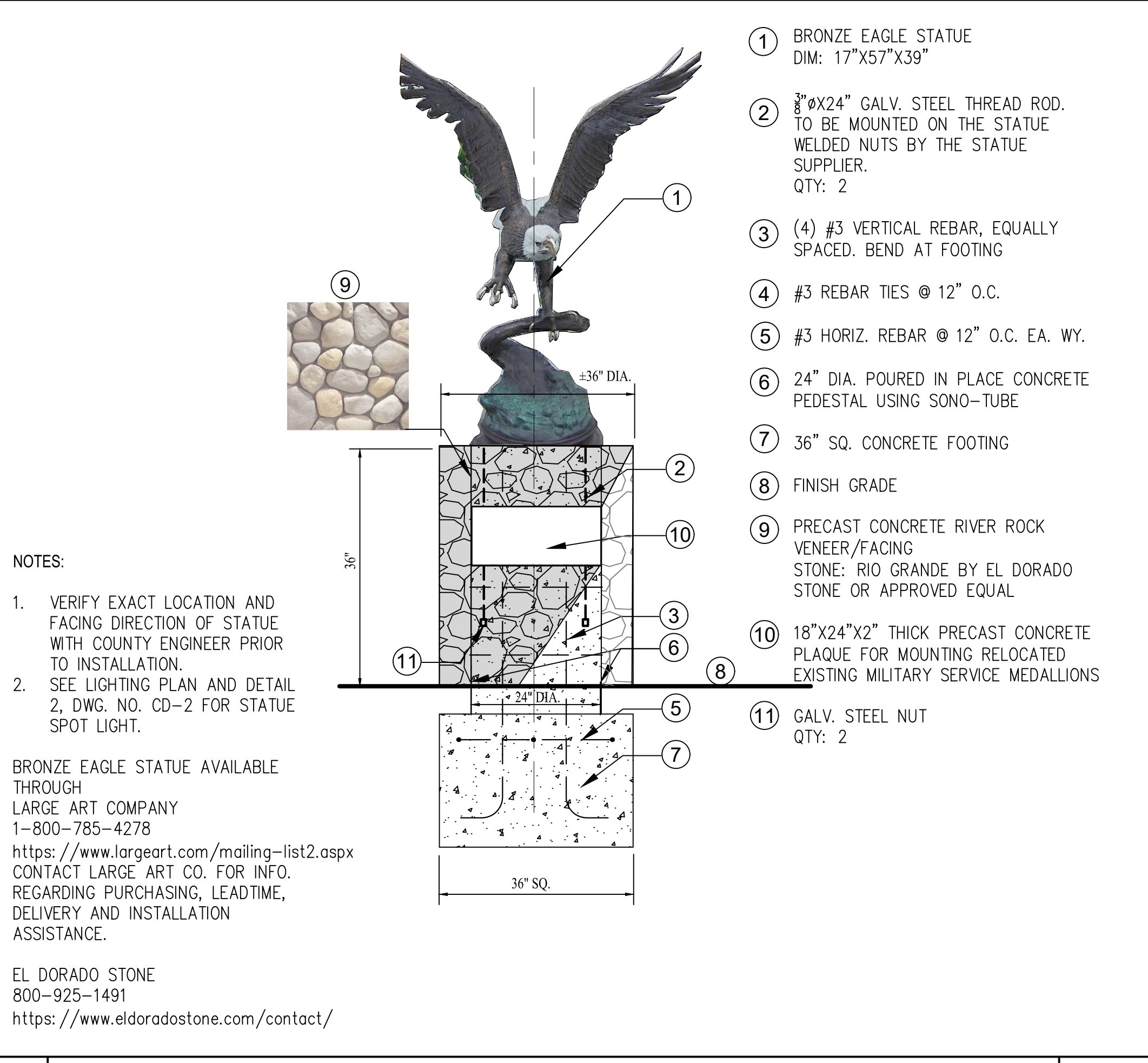
ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
**CONSTRUCTION DETAILS**

SHEET 13 OF 15  
 DWG. NO. CD-2



1 PRECAST CONCRETE TRASH RECEPTACLE NTS 2

2 PREFABRICATED ALUMINUM GARDEN FENCE NTS



3 BRONZE BALD EAGLE STATUE NTS 4 TREE PLANTING NTS 5 SHRUB AND GROUNDCOVER PLANTING NTS 6 PCC MOW CURB NTS

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NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**LANDSCAPE ARCHITECT**  
 JOHN HIDALGO  
 No. 3551  
 Exp. 07-31-23  
 STATE OF CALIFORNIA

**WILLDAN Engineering TRUSTED**  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95661  
 916/924-7000 fax 916/924-3644

PREPARED UNDER THE SUPERVISION OF  
 John Hidalgo  
 R.L.A. 3551 6/2/23 DATE

SCALE: AS SHOWN  
 DRAWN BY: BN  
 DESIGNED BY: BN  
 CHECKED BY: JH

DATE: 6/2/23

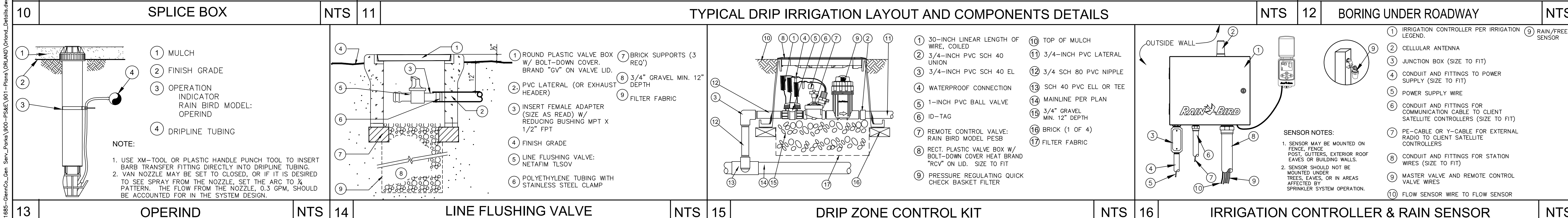
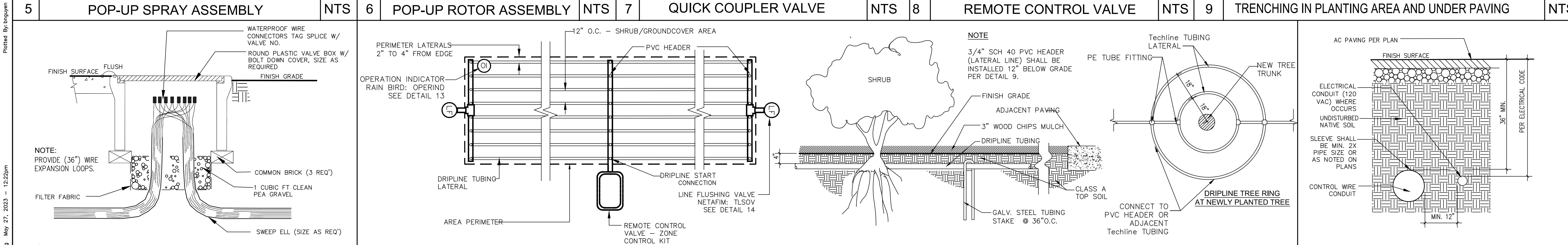
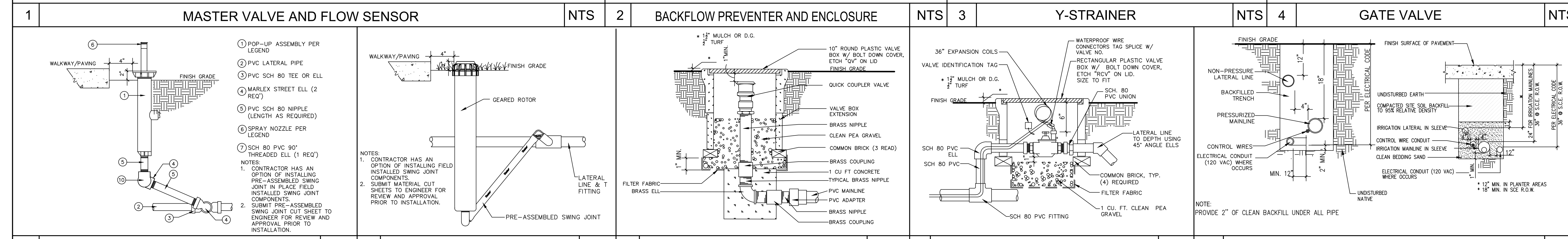
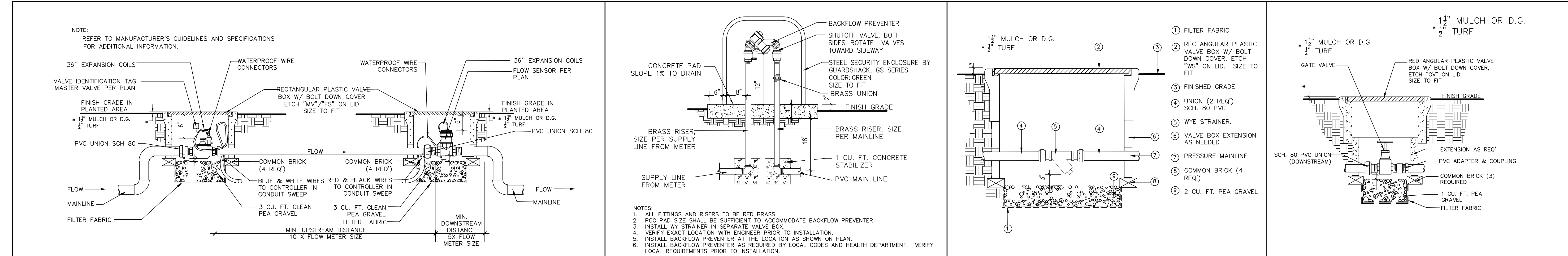
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

COUNTY OF GLENN  
 GENERAL SERVICES - FACILITIES  
 453 E. COUNTY ROAD 49 1/2  
 WILLOWS, CALIFORNIA 95968

ORLAND MEMORIAL PARK  
 ACCESSIBILITY AND BEAUTIFICATION PROJECT  
**CONSTRUCTION AND PLANTING DETAILS**

SHEET 14 OF 15  
 DWG. NO. CD-3

Plotted By: bnguyen  
 W:\WE-CA\Glenn County of\111685- GlennCo\_Gen\_Serv\_Park\800-P&K\901-Plans\GRL\AND\_Oriand\_Details.dwg May 25, 2023 - 9:40am



**REVISIONS**

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

**WILLDAN Engineering**  
 2240 Douglas Boulevard, Suite 270, Roseville, California 95668  
 916/924-7000 fax 916/924-3644  
 PREPARED UNDER THE SUPERVISION OF  
 JOHN HIDALGO R.L.A. 3551 6/2/23 DATE

**COUNTY OF GLENN GENERAL SERVICES - FACILITIES**  
 453 E. COUNTY ROAD 49 1/2  
 WILLOWS, CALIFORNIA 95988

**ORLAND MEMORIAL PARK ACCESSIBILITY AND BEAUTIFICATION PROJECT IRRIGATION DETAILS**

SHEET 15 OF 15  
 DWG. NO. CD-4

Plotted By: bnguyen  
 May 27, 2023 - 12:22pm  
 W:\E-CAD\Glenn\_County\_of\111685-GlennCo\_Serv\_Facilities\900-PS&E\901-Plans\GRL\AND\Orland\_Details.dwg



## **GLENN COUNTY GENERAL SERVICES**

525 W. SYCAMORE STREET, SUITE B1  
WILLOWS, CA 95988  
(530) 934-6545

**SPECIFICATIONS  
AND**

**CONTRACT DOCUMENTS  
FOR**

## **ORLAND MEMORIAL PARK ASSESSIBILITY AND BEAUTIFICATION PROJECT**

Prepared by:

Willdan Engineering  
2240 Douglas Boulevard, Suite 270  
Roseville, California 95661  
916-924-7000

6/2/2023



# COUNTY OF GLENN

FOR INFORMATION ONLY - NOT A PART OF THE CONTRACT DOCUMENTS

## Tentative Schedule

### Orland Memorial Park Accessibility and Beautification Project

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Advertise . . . . .	Date	07/01/23
<b>Bid Opening . . . . . 11:00 a.m.</b>	Date	08-18-23
Recommendation of Award Letter . . . . .	Date	08-25-23
Contractor submits Bonds/Insurance/Contract on or before	Date	09-11-23
County Authorized to Execute Contract . . . . .	Date	08-29-23
Pre-Construction Meeting (tentative) . . . . . 10:00 a.m.	Date	09-11-23
Notice to Proceed Authorization Date (Approx) . . . . .	Date	09-25-23
Time to Completion. . . . .	120 Working Days	
Complete Construction . . . . .	Date	3-8-24
Notice of Completion by County Supervisor . . . . .	Date	3-29-24

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**NOTICE INVITING BIDS**

**COUNTY OF GLENN, CALIFORNIA**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

NOTICE IS HEREBY GIVEN that the County of Glenn, California, will receive sealed bids up to the hour of **11:00 a.m. on the 18<sup>th</sup> Day, of August, 2023** at the Glenn County Clerk of the Board Office, 525 W. Sycamore St. Willows, CA, for the following described Public Works project:

**Providing material, construction and installation for the accessibility improvements and park beautification of Orland Memorial Park. Improvement work includes but not limit to clearing, grubbing and removal, construction of walkway and hardscape; installation of park amenities; installation of park electrical and lighting system; installation of planting and irrigation system and other improvements as indicated on the plans and specified in the specifications.**

**Orland Memorial Park is located at  
327 4th St, Orland, California 95963.**

The project documents are available on the County's website at:  
<https://www.countyofglenn.net/govt/bid>.

Each bid must also be accompanied by security in the form of a bid bond issued by a corporate surety, a certified check, or cashier's check payable to the County of Glenn, or cash for an amount not less than ten percent (10%) of the aggregate sum of the bid. The successful bidder shall be required to execute a Material and Labor Payment Bond and Performance Bond, issued by a corporate surety, in conformance with the requirements set forth in the contract documents, each for not less than one hundred percent (100%) of the contract price. Pursuant to California Contract Code Section 22300, the contractor may, at its own expense, substitute securities for any money being withheld by the County to ensure performance under this contract.

1. Bids shall set forth unit prices as well as a total price for each item bid upon, the total taxes that will be due and a total figure for the price plus tax. Any difference between the taxes shown on the bid as the total figure and those actually due shall be the responsibility of the bidder.
2. Bids shall be opened by the officer or employee conducting the bidding process, or his/her designee, in public in the office of the Clerk of the Board of Supervisors at the time stated in the public notice. The officer or employee conducting the bidding process shall tabulate the bids received and shall keep the tabulation open for inspection during regular business hours for a period not less than fifteen (15) calendar days after the bid opening.
3. Bids and modifications or corrections thereof received after the closing time specified will not be considered.

4. The Board of Supervisors or its designee reserves the right to waive informalities and minor irregularities in any bids received and that, in its discretion, the Glenn Board of Supervisors or its designee may reject any and all bids presented and may advertise for bids.
5. If two or more bids received are for the same total amount or unit price, quality and service being equal, the Board of Supervisors or its designee may accept the one it chooses or accept the lowest bid made after negotiation with tie bidders.

The County of Glenn hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, disability, sex or national origin in consideration for an award.

At the time fixed for receiving bids, the bids will be publicly opened, examined and declared. The bids will be checked and the results will be reported to the County Supervisor at a future meeting. The County reserves the right to reject any or all bids and to waive minor irregularities or informalities in any bonds or in the contract proposal.

The contractor shall hold, at the time of bidding and at award of bid, a valid State of California Contractor's Class "A" as required by the Department of Consumer Affairs for the type of work to be performed. If the foregoing authorizes a specialty contractor to bid this project, all work to be performed outside of his or her licensed specialty shall be performed by a licensed subcontractor in compliance with the Subletting and Subcontracting Fair Practices Act.

**NON-MANDATORY PRE-BID MEETING AND SITE VISIT.** A non-mandatory Pre-Bid Conference and Project Walk-Through will be conducted on 26<sup>th</sup> Day of July, 2023 at 1:30 p.m. regarding this Bid Package at the following address:

Location: Orland Memorial Park, 327 4th St, Orland, CA 95963.

Attendance at the Pre-Bid Conference and Project Site Walk-Through is **NON-MANDATORY** for bid compliance.

**BID PREPARATION COST.** Bidders are solely responsible for the cost of preparing their Bids.

**RESERVATION OF RIGHTS.** Glenn County specifically reserves the right, in its sole discretion, to reject any or all Bids, to re-bid, or to waive inconsequential defects in bidding not involving time, price or quality of the work. Glenn County may reject any and all Bids and waive any minor irregularities in the Bids.

Bids may be held by Glenn County for a period not to exceed forty-five (45) days from the date of the opening of Bids for the purpose of reviewing the Bids, investigating the qualifications of Bidders and receiving Department of Finance approval to award, prior to awarding of the Contract.

**BID OPENING DATE:**

Bid opening shall be conducted at

Glenn County Clerk of the Board  
525 W. Sycamore Street, Suite B1  
Willows, CA 95988

At the hour of 11:00 am on the 18<sup>th</sup> Day of August, 2023.

**In order to be awarded and to perform work on public works projects, prime contractors and subcontractors must possess and maintain registration with the Department of Industrial Relations (DIR) at <https://efiling.dir.ca.gov/PWCR>. This is a separate requirement from the Contractors State License Board (CSLB) licensing requirement. See the Special Provisions for additional details.**

**COUNTY OF GLENN**  
**INSTRUCTION TO BIDDERS**

1. The Contract. The Contract shall consist of the entire bidder's package which shall include the following documents attached hereto and made a part hereof as though set forth in full:
  - a. The Bid herein contained.
  - b. Notice Inviting Bids.
  - c. The prevailing per diem wage rate established by the Department of Industrial Relations, State of California, for the County of Glenn or locality.
  - d. General Conditions for public works projects.
  - e. Bidder's security, affidavits, payment bond and faithful performance bond.
  - f. The form of Public Works Contract.
  - g. The project plans, specifications, and addenda.
  - h. The Standard Specifications for Public Works Construction, "Greenbook" (latest edition, including any supplements) (referred to as the "Standard Specifications").
  
2. Bid Form. Bids shall be made on this bid form. Each bid shall be properly filled out, including each and every item. Bids shall not contain any alternative proposals unless called for therein. No oral, telegraphic, telephonic or telephonically transmitted facsimile proposal or modification will be considered.
  
3. Bidders Responsibilities. Bidder's shall fully inform themselves as to all existing conditions and limitations and shall include in the bid a sum to cover the cost of all items included in the contract.
  
4. Delivery of Bids. All bids shall be in writing, on the forms provided in these specifications, and under sealed cover and must be presented at the place on or before the time specified in the Notice Inviting Bids. Any bid received after the time specified in the notice shall be returned unopened. Such bid shall be enclosed in an opaque sealed envelope, bearing the title of the work and the name of the bidder.
  
5. Anti-Collusion Affidavit. No bid will be considered unless accompanied with an executed Anti-Collusion Affidavit in the form included in the bidder's package.
  
6. Bidder's Security. Each bid shall contain the bidder's security under the sealed cover and no bid shall be considered unless one of the following forms of security is enclosed with the same:
  - a. Cash.
  - b. Cashier's Check payable to the County.
  - c. Certified Check made payable to the County.
  - d. Bidder's Bond executed by an admitted surety insurer with a **Best's Rating of A:VII or better** and made payable to the County.

The bidder's security shall be in an amount equal to at least ten percent (10%) of the amount bid and in the form approved by the County Attorney. The bidder's security shall be retained until the successful bidder has executed the contract.

7. Award of Contract. The County, by receiving bids, does not guarantee that it will let a contract and reserves the right to reject any and all bids for any reason whatsoever, at its discretion. In addition, the award of a contract by the County Supervisor is not final until the agreement has been executed. The County reserves the right to revoke at any time any contract or award of contract prior to execution of the contract by the County.

Each bid submitted shall be deemed a binding and firm offer to do the work specified therein for a period of sixty (60) days after the opening of bids, unless sooner rejected. Any bid received shall only be deemed rejected upon execution of a contract for the required work.

8. Interpretation of Drawings and Documents. If a bidder finds discrepancies in, or omissions from the drawings or specifications, or should he be in doubt as to their meaning, he shall at once notify the County. If necessary, a **written** addenda approved by the Director of Public Works will be sent to all bidders via registered mail no later than three calendar days prior to the bid opening date. The County may elect to precede the written addenda with an email transmission. Only written addenda will constitute official modifications or clarifications. Requests by bidders for clarifications to the project documents which result in a verbal response by the County or its agents will not constitute permission to deviate from the requirements of the plans and specifications. Any addenda issued during the bidding period shall form a part of the contract and shall be covered in the bid and shall be attached to the bid at the time of submission. Failure to attach the addenda may be grounds for rejection of the bid.
9. Examination of Site. Bidders are requested to visit the site and inform themselves of all conditions. Failure to visit the site will in no way relieve the successful bidder from the necessity of furnishing any materials or performing any work that may be required to complete the work in accordance with the contract, without additional cost to the owner.
10. Listing of Subcontractors. Contractor shall in its bid, list the name and complete address of the place of business of each subcontractor who will perform work or render services for contractor in an amount in excess of one-half of one percent (0.5%) of the prime contractor's total bid or ten thousand (\$10,000) dollars, whichever is greater. If the Contractor fails to specify a Subcontractor, or specifies more than one Subcontractor for the same portion of work to be performed under the Contract, the Contractor shall be qualified to perform that portion itself, and shall perform that portion itself except as otherwise provided in the Code.
11. Bidder's Questionnaire. Contractor shall complete the Bidder's questionnaire in its entirety. Failure to submit the completed questionnaire may be grounds for rejection of the bid.

12. Contractor's Industrial Safety Record. All bidders are required to submit information regarding their industrial safety record on the form included in the bid documents. A review of this safety record will be made prior to a determination of the lowest responsible bidder, and an adverse finding as to the bidder's safety record or any bid submitted which does not contain the Contractor's Industrial Safety Record, completed and signed by the appropriate party may be sufficient cause for rejection of the bid.
13. Bid Depository. In accordance with the terms and provisions of the California Supreme Court in the case of Oakland-Alameda County Builder's Exchange vs. F.P. Lathrop Construction Co., 4 Cal 3rd 354, 93 Cal Rprt 602, find that depository agreements or locked box devices prevented open competitive bidding and that the same was an invalid restraint on competition among subcontractors, the contractor herein bidding certifies that all subcontract bids heretofore obtained or hereafter obtained by it in connection with this project have been or will be obtained on the open market and not subject to any restrictive agreement limiting said bidder to the taking or receiving of bids from any source other than through a locked box or a person or group restricting the receipt of bids outside of said person or group. The bidder is required to complete Question No. 20 of the Bidder's Questionnaire, attached hereto, which addresses the use of Bid Depositories.
14. Pursuant to Public Contract Code (PCC) section 2204, an Iran Contracting Act certification is required for solicitations of goods or services of \$1,000,000 or more.
15. Prior Experience. Bidders (the company or corporation, etc.) must have completed one similar project of similar size for public agencies during the past five years.
16. **Bids will be accepted only from Bidders who have obtained Plans and Specifications from the County of Glenn and are registered with the County as a Plan Holder.**



**COUNTY OF GLENN**  
**PUBLIC WORKS CONTRACT BID**  
For  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

**CONTRACTOR MAKING BID:** \_\_\_\_\_

**TO THE HONORABLE COUNTY SUPERVISORS OF THE COUNTY OF GLENN,  
CALIFORNIA:**

The undersigned, as bidder, hereby declares that he has carefully examined the location of the proposed work, the plans and specifications, general conditions thereof, the contract and bid documents, and that he is familiar with all project requirements; and that he hereby proposes and agrees, if this bid is accepted by the County, to furnish all materials and services required to complete said public works project in accordance with said contract and in the time stated therein for the following prices.

**BID SCHEDULE**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Est Quantity</b>	<b>Unit Prices</b>	<b>Extended Amount</b>
1.	Mobilization and demobilization (Bid price not to exceed amount equivalent to 8% of the total construction cost for Bid Items 5 to 40)	LS	1	\$	\$
2.	Clearing, grubbing and removal	LS	1	\$	\$
3.	Remove and dispose existing tree complete including roots to 36-inch deep	EA	3	\$	\$
4.	Special Project Worksite Maintenance and Public Convenience and Safety (Bid price not to exceed amount equivalent to 2% of the total construction cost for Bid Items 5 to 40)	LS	1	\$	\$
5.	Construct 6-inch PCC mow curb complete per plan	LF	430	\$	\$

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Est Quantity</b>	<b>Unit Prices</b>	<b>Extended Amount</b>
6.	Construct 6-inch thick integral color, stamped PCC paving complete per plan including steel reinforcement	SF	500	\$	\$
7.	Construct 6-inch thick natural color PCC ramp with retardant finish complete per plan including steel reinforcement and CAB	SF	295	\$	\$
8.	Construct 4-inch thick natural color PCC walking path and paving with retardant finish surface over compacted subgrade complete per plan	SF	2,875	\$	\$
9.	Furnish and install tubular galvanized steel handrail complete per plan	LS	1	\$	\$
10.	Furnish and install 3-foot high tubular prefabricated aluminum fence complete per plan	LS	1	\$	\$
11.	Furnish and install precast picnic table assembly complete per plan	EA	2	\$	\$
12.	Furnish and install precast concrete trash receptacle assembly complete per plan	EA	2	\$	\$
13.	Furnish and install prefabricated bench complete per plan	EA	4	\$	\$
14.	Furnish and install County furnished dedication bricks/pavers	LS	1	\$	\$
15.	Furnish and install bronze eagle statue complete per plan including stone veneer pedestal and installation of relocated service medallions on concrete plaque	LS	1	\$	\$

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Est Quantity</b>	<b>Unit Prices</b>	<b>Extended Amount</b>
16.	Furnish and install precast concrete monument sign complete per plan including engineering drawings and structural calculations	LS	1	\$	\$
17.	Refurbish existing Boy Scout Fire Pit Monument complete per plan	LS	1	\$	\$
18.	Furnish and install splash guard to existing downspout pipe at the location as indicated on the plan	EA	1	\$	\$
19.	Furnish and install park lighting and electrical system complete per plan including power connection to existing park electrical system	LS	1	\$	\$
20.	Furnish and install 3-inch thick decomposed granite as planting area top-dress	SF	4,357	\$	\$
21.	Perform soil preparation.	SF	68,763	\$	\$
22.	Furnish and install 24-inch box tree, complete per plan.	EA	11	\$	\$
23.	Furnish and install turf sod	SF	61,041	\$	\$
24.	Furnish and install 5-gallon shrub	EA	331	\$	\$
25.	Furnish and install 1-gallon shrub	EA	383	\$	\$
26.	Furnish and install shredded redwood mulch top dress	CY	32	\$	\$
27.	Perform connection to existing potable water service of existing irrigation system complete per plan	LS	1	\$	\$
28.	Furnish and install backflow preventer device, complete per plan including PCC pad, frost blanket and enclosure	EA	1	\$	\$
29.	Furnish and install line size wye strainer in valve box	EA	1	\$	\$

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Est Quantity</b>	<b>Unit Prices</b>	<b>Extended Amount</b>
30.	Furnish and install line size gate valve in valve box	EA	2	\$	\$
31.	Furnish and install quick coupler valve assembly in valve box	EA	6	\$	\$
32.	Furnish and install 1-inch size remote control valve in valve box, including control wires to controller	EA	11	\$	\$
33.	Furnish and install 1-inch size drip control zone assembly complete per plan, including control wires to controller	EA	5	\$	\$
34.	Furnish and install 3-inch size SCH 40 PVC irrigation sleeve	LF	80	\$	\$
35.	Furnish and install 1-1/2-inch size SCH 40 PVC irrigation sleeve	LF	100	\$	\$
36.	Furnish and install subterranean drip irrigation system, complete per plan	SF	7,722	\$	\$
37.	Furnish and install pop-up rotor assembly complete per plan, including serving lateral line from control valve	EA	108	\$	\$
38.	Furnish and install pop-up spray assembly complete per plan, including serving lateral line from control valve	EA	22	\$	\$
39.	Furnish and install SCH 40 PVC control wire conduit and pull box	LF	100	\$	\$
40.	Furnish and install replacement automatic irrigation controller as specified on the plans; electrical service hook-up; supplemental irrigation control system; complete per plans	LS	1	\$	\$
41.	Furnish and install master valve assembly in valve box, size per plan, complete per plan	EA	1	\$	\$

Item No.	Description	Unit	Est Quantity	Unit Prices	Extended Amount
	including control wires to controller				
42.	Furnish and install 1-1/2-inch size SCH 40 PVC mainline.	LF	870	\$	\$
43.	Perform 90-day landscape maintenance period.	LS	1	\$	\$
TOTAL AMOUNT					\$
TOTAL AMOUNT WRITTEN IN WORDS _____					
_____					

Contractor Making Bid: \_\_\_\_\_

The undersigned acknowledges that the County Supervisor, at its discretion, may wish to adjust the scope of work of the project by adding or deleting some quantities of work at the above unit prices. The undersigned agrees to perform said contract and said work for the stated unit prices. The undersigned agrees that the County will not be responsible for any error or omission on the part of the undersigned in making this bid. In the case of a discrepancy between unit prices and total, the unit price shall prevail.

Accompanying this proposal is (check one) [ ] "\$\_\_\_\_\_ cash", [ ] "Cashier's Check", [ ] "Certified Check", or [ ] "Bidder's Bond", as the case may be, in an amount equal to at least ten percent (10%) of the total bid. The undersigned further agrees that in case of default in executing the required contract, together with the necessary bonds, within the period of time provided by the bid requirements, the proceeds of the security accompanying this bid shall become the property of the County of Glenn, California, and the bid and acceptance thereof may be considered null and void.

Work to Be Performed by the Prime Contractor The following information shall be furnished relative to each trade that will be performed by the undersigned in and about the construction of the project, by the prime contractor's own forces. The contractor shall list each specialty to be performed by his own forces and the percentage of the total bid for each specialty listed. The total of all work listed to be performed by the contractor, when combined with the work to be performed by the subcontractors listed below, shall equal one hundred percent.

Specialty/Trade	Percentage

Specialty/Trade	Percentage
Total	

List of Subcontractors. The following information shall be furnished relative to each subcontractor who will perform work or render services to the undersigned in and about the construction of the project in an amount in excess of one-half of one percent (0.5%) of the total amount of this bid or ten thousand (\$10,000) dollars, whichever is greater. The contractor shall list only one (1) subcontractor for each specialty, as defined by the prime contractor in his bid. The work for which no subcontractor is designated herein, will be performed by the undersigned.

**Exhibit 12-B: Bidder’s List of Subcontractors (DBE and Non-DBE) Part 1**

As of March 1, 2015, Contractors (and subcontractors) wishing to bid on public works contracts shall be registered with the State Division of Industrial Relations and certified to bid on Public Works contracts. Please register at <https://www.dir.ca.gov/Public-Works/Contractor-Registration.html>. The local agency will verify registration of all contractors and subcontractors on public works projects at bid and thereafter annually to assure that registration is maintained throughout the life of the project.

In accordance with Title 49, Section 26.11 of the Code of Federal Regulations and Section 4104 of the California Public Contract Code, as amended, the following information is required for each subcontractor that will perform work amounting to more than one-half of one percent (0.5%) of the Total Base Bid or \$10,000, whichever is greater. **Photocopy this form for additional firms.**

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	% of Bid Item Subcontracted	Contractor License Number and DIR Reg. Number	DBE (Y/N)*	DBE Cert Number*	Annual Gross Receipts
Name:							<input type="checkbox"/> <\$1 million <input type="checkbox"/> <\$5 million <input type="checkbox"/> <\$10 million <input type="checkbox"/> <\$15 million Age of Firm: ____ yrs.
County, State:							
Name:							<input type="checkbox"/> <\$1 million <input type="checkbox"/> <\$5 million <input type="checkbox"/> <\$10 million <input type="checkbox"/> <\$15 million Age of Firm: ____ yrs.
County, State:							

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Name:							<input type="checkbox"/> <\$1 million <input type="checkbox"/> <\$5 million <input type="checkbox"/> <\$10 million <input type="checkbox"/> <\$15 million Age of Firm: ____ yrs.
County, State:							
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County, State:							
Name:							<input type="checkbox"/> <\$1 million <input type="checkbox"/> <\$5 million <input type="checkbox"/> <\$10 million <input type="checkbox"/> <\$15 million Age of Firm: ____ yrs.
County, State:							

\* DBE information *not* required for locally funded, state-funded, and U.S. Housing and Urban Development/Community Development Block Grant (CDBG)-funded projects.

### Exhibit 12-B: Bidder's List of Subcontractors (DBE and Non-DBE) Part 2

In accordance with Title 49, Section 26.11 of the Code of Federal Regulations, the Bidder shall list all subcontractors who provided a quote or bid but **were not selected** to participate as a subcontractor on this project. **Photocopy this form for additional firms.**

Federal Project Number: \_\_\_\_\_

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	% of Bid Item Subcontracted	Contractor License Number and DIR Reg. Number	DBE (Y/N)*	DBE Cert Number*	Annual Gross Receipts
Name:							<input type="checkbox"/> <\$1 million <input type="checkbox"/> <\$5 million <input type="checkbox"/> <\$10 million

## Exhibit 12-B: Bidder's List of Subcontractors (DBE and Non-DBE) Part 2

In accordance with Title 49, Section 26.11 of the Code of Federal Regulations, the Bidder shall list all subcontractors who provided a quote or bid but **were not selected** to participate as a subcontractor on this project. **Photocopy this form for additional firms.**  
 Federal Project Number: \_\_\_\_\_

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	% of Bid Item Subcontracted	Contractor License Number and DIR Reg. Number	DBE (Y/N)*	DBE Cert Number*	Annual Gross Receipts																																																																																									
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All Subcontractors shall be licensed subcontractors in compliance with the Subletting and Subletting Fair Practices Act (Chapter 4, commencing with Section 4100 of the Public Resources Code).

Equals. Whenever any particular material, process, or equipment is indicated by patent, proprietary or brand name, or by name of manufacturer, such wording is used for the purpose of facilitating its description and shall be deemed to be followed by the words *or equal*, in conformance with Section 4-6 of the Standard Specifications.

In any case where the County has designated "*or equal*", as aforementioned, and the bidder intends to furnish an "equal" product, the bidder shall list such "equal" product or material, the product or material that is specified, and where it is specified: (additional data shall be furnished in accordance with Section 4-6 of the Standard Specifications):


**BIDDERS MUST EXECUTE BID**

**SIGNED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_** at \_\_\_\_\_, California. I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Signature of person executing bid:	Printed Name:

**Each bidder shall complete the following:**

Each bidder shall in the place hereinafter provided state whether he is an individual, firm or corporation; if a partnership, he shall state in the Bidder's Questionnaire the firm name and give the names of all individuals who are co-partners composing the firm. If a corporation, he shall state in the Bidder's Questionnaire the legal name of the corporation, the place of incorporation, the names of the president, secretary, and treasurer thereof.

Contractor Name:	State Contractor's License Number:	
Business Address:	Check One:	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation
Contact:		
Telephone:		
Email:		
Public Works Contractor Registration Number:		

**NO BID WILL BE ACCEPTED WHERE A MATERIAL OR RELEVANT BLANK SPACE  
HEREIN ABOVE SET FORTH IS NOT COMPLETED.**

**COUNTY OF GLENN**  
**AFFIDAVIT OF NON-COLLUSION**  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

STATE OF CALIFORNIA, COUNTY OF GLENN:

The undersigned declares that:

- 1) He is fully informed regarding the preparation and contents of the bid, and of all pertinent circumstances regarding such bid.
- 2) Such bid is genuine and is not a collusive or sham bid.
- 3) In the preparation and submission of such bid, neither the bidder, nor any person of entity associated in any way with the bidder, has in any manner, either directly or indirectly colluded or agreed with any person or entity:
  - a) To submit any collusive or sham bid.
  - b) To refrain from submitting any bid.
  - c) To fix the price in any bid.
  - d) To fix any overhead, profit, or cost element of any bid price.
  - e) To otherwise take any action in restraint of free competitive bidding.
- 4) The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion or unlawful agreement on the part of the bidder for any person or entity associated in any way with the bidder.

I DECLARE UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

Signature:	Company Name:
Printed Name:	Business Address:
Company Name:	

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF GLENN )

On this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_, before me \_\_\_\_\_, (here insert name and title of the officer), personally appeared \_\_\_\_\_, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and Official Seal:

\_\_\_\_\_  
Notary Public in and for said County and State

**COUNTY OF GLENN**  
**BIDDER'S QUESTIONNAIRE**  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

Attach additional sheets if more space is needed to provide a complete answer.

1. Company Data

Contractor Name:		State Contractor's License Number & Class:
Business Address:		Expiration Date: Public Works Contractor Registration Number:
Telephone: Email Address:		Contractors Representative: Title:
W-9 IRS Employer ID Number:		Years of Experience:
Check One:	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation	Alt. Contractors Representative:  Title: Years of Experience:
<b>If Corporation:</b> Date of incorporation: State of incorporation: President: Vice-President: Secretary or Clerk: Treasurer:		<b>If Partnership:</b> Date of Organization:  Names of Partners:

2. List the major construction projects your organization has in progress as of this date:

Project Name:	Project Name:
Owner:	Owner:
Project Location:	Project Location:
Type of Project:	Type of Project:
Trades Involved:	Trades Involved:
Valuation:	Valuation:
Contact Person: Title: Telephone:	Contact Person: Title: Telephone:
Project Name:	Project Name:
Owner:	Owner:
Project Location:	Project Location:
Type of Project:	Type of Project:
Trades Involved:	Trades Involved:
Valuation:	Valuation:
Contact Person: Title: Telephone:	Contact Person: Title: Telephone:

3. List at least one (1) public works construction projects similar in nature to the project defined in these specifications, which your organization has completed within the last five (5) years:

Project Name:	Project Name:
Owner:	Owner:
Project Location:	Project Location:
Type of Project:	Type of Project:
Trades Involved:	Trades Involved:
Valuation:	Valuation:
Contact Person: Title: Telephone:	Contact Person: Title: Telephone:
Project Name:	Project Name:
Owner:	Owner:
Project Location:	Project Location:
Type of Project:	Type of Project:
Trades Involved:	Trades Involved:
Valuation:	Valuation:
Contact Person: Title: Telephone:	Contact Person: Title: Telephone:
Project Name:	Project Name:
Owner:	Owner:
Project Location:	Project Location:
Type of Project:	Type of Project:

Trades Involved:	Trades Involved:
Valuation:	Valuation:
Contact Person: Title: Telephone:	Contact Person: Title: Telephone:
Project Name:	Project Name:
Owner:	Owner:
Project Location:	Project Location:
Type of Project:	Type of Project:
Trades Involved:	Trades Involved:
Valuation:	Valuation:
Contact Person: Title: Telephone:	Contact Person: Title: Telephone:

4.	Have you or your firm or any principal in your firm ever been adjudged bankrupt in any voluntary or involuntary bankruptcy proceeding? <input type="checkbox"/> YES <input type="checkbox"/> NO If so, when and where?
5.	Have you, your firm, or any principal in your firm ever been sued by any "owner" or Bonding Company insuring said "owner" for default on a contract? <input type="checkbox"/> YES <input type="checkbox"/> NO If the law suit is still pending, what is the case number? What was the result of the lawsuit?

6.	<p>Have you, your firm, or any principal in your firm ever been sued by any subcontractor or material supplier for default on a contract? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If the law suit is still pending, what is the case number?</p> <p>What was the result of the lawsuit?</p>
7.	<p>Has any Bonding Company ever refused to bond you, your firm, or any principal in your firm for a contract? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If so, what were the circumstances?</p>
8.	<p>Has a Bonding Company ever been required to pay on a Bond issued to you, your firm, or any principal in your firm for a contract? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If so, what were the circumstances?</p>
9.	<p>Have you, your firm, or any principal in your firm ever had to submit to binding arbitration to resolve a dispute arising from a contract? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If so, what were the circumstances?</p>
10.	<p>Have you, your firm, or any principal in your firm ever been penalized with liquidated damages for failure to complete the terms of a contract within the specified time? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If so, what were the circumstances?</p>
11.	<p>Have you, your firm, or any principal in your firm ever been penalized for failure to pay prevailing wages to any persons performing work under a contract, including subcontractors? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If so, what were the circumstances?</p>



12. Provide information regarding your insurance agent or agents who will be providing insurance certificates for this project:

Name of Agent:	Name of Agent:
Name of Firm:	Name of Firm:
Address:	Address:
Telephone Fax:	Telephone Fax:
Type of Insurance:	Type of Insurance:

13. Provide your banking references:

Name of Bank:	Name of Bank:
Name of Contact Person:	Name of Contact Person:
Address:	Address:
Telephone: Fax:	Telephone: Fax:

14. Use of Bid Depositories:

- (a) Were Bid Depositories or Registry services used in obtaining sub-contractor bid figures in order to compute your bid?  YES  NO
- (b) Did you have any source of sub-contractors' bids other than Bid Depositories?  YES  NO
- (c) Has any group or person threatened you with sub-contractor boycotts, union boycotts, or other sanctions to attempt to convince you to use the services or abide by the rules of one or more bid depositories?  YES  NO  
If so, please attach a statement providing details regarding the alleged incident.

I declare under penalty of perjury that the representations in this bid are true and correct.

Signature of Bidder:	Printed Name:
----------------------	---------------

**COUNTY OF GLENN  
CONTRACTOR'S INDUSTRIAL SAFETY RECORD**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

This information must include all construction work undertaken in the State of California by the bidder and any partnership, joint venture or corporation that any principal of the bidder participated in as a principal or owner for this last five calendar years and the current calendar year prior to the date of bid submittal. Separate information shall be submitted for each particular partnership, joint venture, corporate or individual bidder. The bidder may attach any additional information or explanation of data which he would like taken into consideration in evaluating the safety record. An explanation must be attached of the circumstances surrounding any and all fatalities.

**This form may be duplicated.**

		2017	2018	2019	2020	2021
1. Number of contracts						
2. Total dollar amount of contracts (in \$1,000's)						
*3. Number of fatalities						
*4. Number of lost workday cases						
*5. Number of lost workday cases involving permanent transfer to another job or termination of employment						
*6. Number of lost workdays						

\*The information required for these items is the same as required for columns 3 to 6, code 10, Occupational Injuries, Summary-Occupational Injuries and Illnesses, OSHA No. 102.

The above information was compiled from the records that area available to us at this time and I declare under penalty of perjury that the information is true and accurate within the limitations of those records

Name of Business Entity: \_\_\_\_\_

Full Address: \_\_\_\_\_

Telephone \_\_\_\_\_ State Contractor's License Number \_\_\_\_\_

Additional Information Attached? \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

**COUNTY OF GLENN  
BIDDER'S BOND**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

*NOTE: Use this form when Bid Bond is to be submitted with bid  
instead of certified check, cashier's check.*

KNOW ALL MEN BY THESE PRESENTS,

That we, \_\_\_\_\_ as principal,  
Business Address \_\_\_\_\_ Phone \_\_\_\_\_  
and \_\_\_\_\_ a duly authorized corporate surety:  
Business Address \_\_\_\_\_ Phone \_\_\_\_\_ are held and firmly  
bound unto the County of Glenn, State of California in the sum of \_\_\_\_\_  
dollars, (\$ \_\_\_\_\_) for the payment of which sum, well and truly to be made we bind  
ourselves and each of our heirs, successions, executors, administrators and assigns, jointly and  
severally, firmly by these presents.

The condition of the foregoing obligation is such that said principal is about to hand in and submit  
to the County Supervisor of the County of Glenn the foregoing bid for the performance of the work  
therein mentioned, in compliance with the specifications therefor, under an invitation of said  
County Supervisor contained in the Notice of Inviting Bids attached to said bid.

NOW, THEREFORE, if said bid of the said principal shall be accepted, and the work awarded to  
thereupon by said County Supervisor, and if the said principal, \_\_\_\_\_,  
shall fail or neglect to enter into a contract therefor within the required time, and with a duly  
authorized corporate surety, conditions for the faithful performance of such contract and the  
payment of all claims for labor and materials used on said work, in such case required by statute,  
then in that case the undersigned obligers will pay to the County of Glenn the full sum of  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_) as  
liquidated damages for such failure and neglect.

WITNESS OUR HANDS THIS \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
(Principal's Signature)

\_\_\_\_\_  
(Corporate Surety's Signature)

**COUNTY OF GLENN**  
**BIDDER'S SECURITY**  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

*NOTE: Use this form when bid is submitted with cash,  
certified check, cashier's check instead of bid bond..*

Accompanying this bid is a [  ] certified check or [  ] cashier's check payable to the order of the County of Glenn, or [  ] cash in the amount of: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_). The proceeds of the same shall become the property of said County if, in case this bid shall be accepted by the said County through the County Supervisor, the undersigned shall fail to execute a contract with, and furnish the sureties required by the County of Glenn within the required time; otherwise, the same is to be returned to the undersigned.

Bidder's Signature: \_\_\_\_\_

**COUNTY OF GLENN**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

**IRAN CONTRACTING ACT CERTIFICATION**

Pursuant to Public Contract Code (PCC) section 2204, an Iran Contracting Act certification is required for solicitations of goods or services of \$1,000,000 or more.

To submit a bid or proposal to the Court, you must complete **ONLY ONE** of the following two paragraphs. To complete paragraph 1, check the corresponding box **and** complete the certification for paragraph 1. To complete paragraph 2, simply check the corresponding box.

1. We are not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to PCC 2203(b), and we are not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

***OR***

2. We have received written permission from the Court to submit a bid or proposal pursuant to 2203(c) or (d). *A copy of the written permission from the Court is included with our bid or proposal.*

**CERTIFICATION FOR PARAGRAPH 1:**

I, the official named below, CERTIFY UNDER PENALTY OF PERJURY, that I am duly authorized to legally bind the proposer/bidder to the clause in paragraph 1. This certification is made under the laws of the State of California.

<i>Company Name (Printed)</i>	<i>Federal ID Number</i>
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	
<i>Date Executed</i>	<i>Executed in the County of _____ in the State of _____</i>

**COUNTY OF GLENN**

**PRECONSTRUCTION DOCUMENT SUBMITTAL REQUIREMENTS**

**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

The following documents are required to be completed and submitted as indicated.

A. Submit with Bid (all bidders)

1. Bid, including:
  - a. List of Subcontractors
  - b. List of proposed "or equal" substitutions
2. Bidder's Bond or Security with a **Best's Rating of A:VII or better**
3. Affidavit of Non-Collusion
4. Bidder's Questionnaire (with list of references)
5. Contractor's Industrial Safety Record
6. Iran Contracting Act Certification for bids of \$1,000,000 or more

B. Submit with Agreement (Awardee):

1. Contract Agreement
2. Faithful Performance Bond - executed by an admitted surety insurer with a **Best's Rating of A:VII or better**
3. Payment Bond - executed by an admitted surety insurer with a **Best's Rating of A:VII or better**
4. Certificate of Insurance for Public Liability and Property Damage. **Note the minimum limits of \$5,000,000**
5. Certificate of Insurance for Worker's Compensation
6. Manufacturer's specifications and data sheets for "or equal" items proposed to be furnished

C. Submit Prior to Starting Construction (Awardee):

1. Shop drawings, shoring plans, falsework plans, etc. (as required)
2. Permits
3. Air and Water Pollution Control Program
4. Refer to Section F for requirements for federally funded projects.

**COUNTY OF GLENN**  
**PUBLIC WORKS CONTRACT**  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

WHEREAS, the County of Glenn has heretofore invited bids for a public works contract for:

**Providing material, construction and installation for the accessibility improvements and park beautification of Orland Memorial Park as described in the NOTICE INVITING BIDS. Improvement work includes but not limit to clearing, grubbing and removal, construction of walkway and hardscape; installation of park amenities; installation of park electrical and lighting system; installation of planting and irrigation system and other improvements as indicated on the plans and specified in the specifications.**

within the County of Glenn in accordance with the terms and provisions of this agreement; and

WHEREAS, the County Supervisor of the County of Glenn at a meeting thereof on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, found that the lowest responsible bidder was and accepted the bid of said bidder, sometimes herein after referred to as "Contractor", to construct said public works project in accordance with this agreement; and

WHEREAS, the Notice Inviting said Bids requires the successful bidder to execute an agreement with the County for construction of said public works;

NOW, THEREFORE, the County of Glenn and said Contractor do hereby covenant and agree as follows:

1. Parties

a. County of Glenn, General Services, a municipal Agency, 525 W. Sycamore Street, Suite B1, Willows, CA 95988, and all officers and employees thereof, as well as any contractual agent of the County and the employees of said contractual agency performing any function of said public works project by and on behalf of the County of Glenn.

b. "Contractor" shall mean

Name:



Address:

Telephone: \_\_\_\_\_ Email:

and all agents and employees and subcontractors, and the agents and employees of the subcontractors of said Contractor.

2. Scope of Work

a. Contractor agrees at his own cost and expense to do all the work and furnish all the materials, except such as are mentioned in the specifications to be furnished by said County, necessary to construct and complete in a good workmanlike, and substantial manner, the following described public works project in accordance with the project plans and specifications and the provisions of this agreement which are hereby specially referred to and by reference made a part hereof. The scope of said work and said public works project is:

**Providing material, construction and installation for the accessibility improvements and park beautification of Orland Memorial Park as described in the NOTICE INVITING BIDS. Improvement work includes but not limit to clearing, grubbing and removal, construction of walkway and hardscape; installation of park amenities; installation of park electrical and lighting system; installation of planting and irrigation system and other improvements as indicated on the plans and specified in the specifications.**

b. The County hereby promises and agrees with said Contractor to employ, and does hereby employ, said Contractor to provide the materials and do the work according to the terms and conditions herein contained and referred to, for the prices hereinafter set forth, and hereby contracts to pay the same at the time, in the manner and upon the conditions hereinafter set forth.

3. Contract Price

The said Contractor agrees to receive and accept the following prices as full compensation for furnishing all materials and for doing all the work contemplated and embraced in this agreement; also for all loss or damage arising out of the nature of the aforesaid work, or from the action of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work (acts of God as hereinafter defined excepted) until its acceptance by said County, and for all expenses incurred, or as a consequence of the suspension or discontinuance of the work; and for well and faithfully completing the work, and the whole thereof in the manner according to the plans and specifications thereof and this agreement, the sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_). Said price is determined by the unit prices contained in the Contractor's bid. In the event that more or less work is performed than is set forth in Contractor's bids and the specifications herein, such work and materials will be paid for (where authorized by the County)

at the unit prices therein contained or a negotiated lump sum or at time and materials. Said amount shall be paid in installments as hereinafter provided.

4. Payments to Contractor

Each month during the progress of the work, the Contractor shall submit to the County a complete itemized statement of all work completed during the preceding month, and the portion of the contract sum applicable thereto. The Engineer will, after award of contract, establish closure dates for the purpose of making monthly progress payments. Said statement will be submitted to the next succeeding County Supervisor meeting corresponding to the closure cut-off date for audit and approval by the County Supervisor, and the County shall pay Contractor said sum less five percent (5%), which five percent (5%) the County will retain as part security for the fulfillment of the contract by the Contractor, said sum not exceeding ninety-five percent (95%) of the contract price during the term of said contract.

The remaining five percent (5%) thereof shall be paid Contractor thirty-five (35) days after recording of the Notice of Completion. If the Notice of Completion or the Notice of Cessation of work has not been recorded, no such final payment shall be made until ninety (90) days after completion or cessation. At the request and expense of the Contractor, where the provision of Section 22300 of the Public Contracts Code is applicable, the amount so withheld will be paid to the Contractor, provided securities equivalent to the amount withheld are deposited with the County in accordance with and subject to the terms and provisions of Section 22300 of the Public Contract Code.

Nothing herein shall require the County to make payment to the Contractor contrary to the terms and provisions of the Works of Improvement Law, Sections 3082-3266 of the Civic Code pertaining to stop notices and enforcement.

5. Time for Performance

The construction or installation or work called for herein shall commence within fifteen (15) calendar days after issuance of a Notice to Proceed, and shall be thereafter diligently prosecuted to completion. Time is the essence of this agreement.

All work shall be completed within **One Hundred Twenty (90) Working Days**, which includes the mobilization and procurement period.

6. Worker's Compensation Insurance

By my signature hereunder as Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Worker's Compensation, or to undertake self-insurance in accordance with the provisions of that Code, and have attached a Certificate of Insurance of Workman's Compensation.

7. Federally Assisted Projects

This project does not include any Federal Government funding.

8. Prevailing Rate or Wages

The Director of General Services at the direction of the County Supervisor has obtained from the Department of Industrial Relations, State of California, the prevailing rate of per diem wage, and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft, classification or type or workmen needed to carry out this agreement. In that regard, pursuant to Section 1773 of the Labor Code, holidays, upon which such rate shall be paid, need not be specified in this agreement, but shall be all holidays recognized in the collective bargaining agreement applicable to the particular craft, classification or type or workmen employed on the project. Attached hereto and made a part hereof as though set forth in full are rates applicable to this project and contract, and the contractor shall pay not less than the minimum thereof.

9. Assignment

The Contractor shall not assign this contract, or transfer his obligation to perform this agreement, without the written approval of the County.

10. Sub-Let

The Contractor shall not sub-let or sub-contract any portion of the work in excess of one-half of one percent (0.5%) of the Contractor's total bid or ten thousand (\$10,000) dollars, whichever is greater, for which he did not designate a subcontractor, other than in the performance of change orders.

11. The Contract

The "Contract", or "Agreement", or "Public Works Contract" used herein shall consist of:

- (1) This Agreement;
- (2) The Notice Inviting Bids;
- (3) The Instructions to Bidders and the Bid Form including all affidavits and questionnaires pertaining thereto and included within the "Bidder's Package";
- (4) The prevailing per diem wage scale rates and benefits established by the Department of Industrial Relations of the State of California;
- (5) The Bidder's Security, the Contractor's Payment Bond, and the Faithful Performance Bond;
- (6) The contract Plans and Specifications, and revisions and addenda issued thereto;

Execution of this Agreement by the Contractor incorporates all of the aforementioned by reference, which are attached hereto and made a part hereof as though set forth in full.

12. Bonds and Insurance

The Contractor shall return with this executed Contract those bonds and evidence of insurance in the amounts as set forth in the Contract General Conditions. Said bonds and evidence of insurance shall be in a form approved by the County Attorney.

It is further agreed by and between the parties hereto, including the surety or sureties on the bonds made a part of this agreement, that in the event it is deemed necessary to extend the time of completion of the work to be done under this Agreement, said extension may be granted by the County Supervisor, and shall in no way affect the validity of this Contract, or release of surety or sureties of the bonds.

Where cash is provided by the Contractor to the County to secure performance of this Agreement, and where not prohibited by federal law or regulation, securities in compliance with the provisions of Public Contract Code Section 22300, equivalent in the amount withheld, may be deposited with the County or with a state or federally chartered bank as the escrow agent, who shall then pay such money withheld from the contractor. Upon satisfactory completion of the contract, the securities shall be returned to the contractor and otherwise retained and administered within the terms and provisions of the Agreement and Section 22300.

13. Contracts for Thirty Thousand (\$30,000) dollars or more, or Twenty Working (20) Days or More:

It is understood and agreed by and between the parties that in accordance with the terms and provisions of Section 3098 of the Labor Code of the State of California, the County will, with respect to prime contracts of thirty thousand (\$30,000) dollars or twenty (20) working days or more, within five (5) days of the award of this contract send a copy of the award to the Division of Apprentice Standards of the State of California. Contractor agrees by the execution of this agreement to comply with the terms and provisions of Section 1777.5 of the Labor Code pertaining to the employment of properly indentured apprentices and the wages to be paid.

IN WITNESS WHEREOF the County and the Contractor have caused this Agreement to be executed and signed on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

COUNTY OF GLENN

By \_\_\_\_\_  
Board of Supervisors

CONTRACTOR

\_\_\_\_\_  
Name of Contractor

By \_\_\_\_\_  
Signature & Title

**COUNTY OF GLENN**  
**FAITHFUL PERFORMANCE BOND**  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

KNOW ALL MEN BY THESE PRESENTS:

That we,  
as principal, and  
as surety, are held and firmly bound unto the COUNTY OF GLENN, State of California, in the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents.

The condition of the foregoing obligation is such that whereas said principal has been awarded and is about to enter into the annexed contract with the County of Glenn, State of California, for:

**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

and as required by said County to give this bond in connection with the execution of said contract;

NOW, THEREFORE, if the said principal shall well and truly do and perform all of the covenants and obligations of said contract on (circle one) his/her/their part to be done, performed at the times, in the manner specified therein, and within the time limit prescribed as well as in a manner that is satisfactory and acceptable to the County and if all materials and workmanship supplied by said principal are free from original or developed defects and failures and make all replacements and adjustments required, within a reasonable time after being notified by the County so to do, then this obligation shall be null and void, otherwise it shall be and remain in full force and effect.

This bond shall be maintained by the contractor in full force and effect during the performance of the work of the contractor and for a period of one year after the date of acceptance of the work by the County.

No premature payment by said County to said principal shall exonerate any surety unless the County Supervisor of said County shall have actual notice that such payment is premature at the time it is ordered by said County Supervisor, and then only to the extent that such payment shall result in loss to said surety, but in no event more than the amount of such premature payment.

The said surety for value received hereby stipulates and agrees that no amendment, change, extension of time, alteration or addition to said contract or agreement, or of any feature or item, or items of performance required therein or thereunder, shall in any manner affect its obligation on or under this bond; and said surety does hereby waive notice of said amendment, change, extension of time, alteration or addition to said contract or agreement and of any feature of item or items

**COUNTY OF GLENN**

**FAITHFUL PERFORMANCE BOND  
(Continued)**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

of performance required therein or hereunder.

(Where principal is individual or partnership) the said surety for value received hereby stipulates and agrees that the death of the principal or principals shall not relieve the surety of its obligation.

WITNESS our hands this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

Principal's Signature

Surety

Address

Telephone

STATE OF CALIFORNIA            )  
  ) ss.  
COUNTY OF GLENN            )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_, before me \_\_\_\_\_, (here insert name and title of the officer), personally appeared \_\_\_\_\_, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and Official Seal:

Notary Public in and for said County and State

**COUNTY OF GLENN**  
**PAYMENT BOND**  
**ORLAND MEMORIAL PARK**  
**ACCESSIBILITY AND BEAUTIFICATION PROJECT**

KNOW ALL MEN BY THESE PRESENTS:

That we, as Principal and Surety(ies) hereto, are firmly bound to the COUNTY OF GLENN, CALIFORNIA, and to all persons, companies or corporations who are claimant under Title 15 of the Civil Code of the State of California, commencing with Section 3082, under and by virtue of the above mentioned Public Works contract of the County of Glenn in the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), lawful money of the United States and we bind ourselves jointly and severally for the payment of said sum as follows:

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal entered into the contract identified above;

NOW, THEREFORE, if the Principal shall promptly make payment to all persons supplying labor and materials in the prosecution of the work provided for in said contract, and any and all duly authorized modification of said contract that may hereafter be made, notice of which modification to the Surety(ies) is being hereby waived, then the above obligation shall be void and of no effect. Otherwise, if the original contractor or his subcontractor fails to pay any of the persons named in Section 3181 of the Civil Code of the State of California, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any said claimant, or for any amount required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of the employees of the contractor and his subcontractor pursuant to Section 188806 of the Revenue and Taxation Code, with respect to such work and labor, that the Surety or Sureties will pay for the same in an amount not exceeding the sum specified in the Bond.

PROVIDED that this Bond is filed by the Principal to comply with the provisions of Title 15 (Work of Improvement) of the Civil Code of the State of California commencing with Section 3082 and is for the benefit of any of the persons named in Section 3181 so as to give a right of action to such persons or their assigns in any suit brought upon the Bond.



**COUNTY OF GLENN**

**PAYMENT BOND**

(Continued)

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

IN WITNESS WHEREOF, We, the Principal and Surety(ies), bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, as above set forth this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

PRINCIPAL:

Name of Principal: \_\_\_\_\_

Signature of Principal or Authorized Agent: \_\_\_\_\_

<b>CORPORATE SURETY:</b>	<b>INDIVIDUAL SURETIES:</b>	
Name of Corporate Surety	First Individual Surety	Second Individual Surety
State of Incorporation	Name	Name
Signature of Agent	Signature	Signature
Address	Address	Address

STATE OF CALIFORNIA            )  
  ) ss.  
COUNTY OF GLENN        )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_, before me \_\_\_\_\_, (here insert name and title of the officer), personally appeared \_\_\_\_\_, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and Official Seal:

Notary Public in and for said County and State

**NOTE:** To be approved the bond must be executed by two or more good and sufficient sureties or corporate surety and in the same amount as the contract bid amount

**COUNTY OF GLENN**

**AGREEMENT TO DEPOSIT SECURITIES FOR FUNDS WITHHELD**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

WHEREAS, the undersigned Contractor has heretofore entered into a written agreement with the County of Glenn to perform said Project;

WHEREAS, the County of Glenn has accepted the work of said contract but the final payment otherwise due and owing to the Contractor cannot be paid to the Contractor until the expiration of thirty-five (35) days after recording the Notice of Completion or the Notice of Cessation or, if no such notice is recorded, ninety (90) days after completion or cessation; and

WHEREAS, (alternative, strike out if inapplicable) the Contractor in lieu of providing a bond to insure performance of this contract, has elected to provide cash security; and

WHEREAS, (alternative, strike out if inapplicable) the Contractor at the Contractor's request and expense has elected to substitute securities of an equivalent amount to said monies which securities shall be deposited with the County and the County shall upon said deposit pay to the Contractor all funds, if any, deposited with or withheld by the County to insure performance of said contract, subject to and in accordance with the terms and provisions of Section 22300 of the California Public Contracts Code, and

WHEREAS, no Federal law, regulation or policy prohibits the substitution of said securities;

NOW, THEREFORE, the County of Glenn and the Contractor do hereby covenant and agree as follows:

1. In accordance with and subject to the terms and provisions of Section 22300 of the California Public Contract Code, securities eligible for investment under Section 16430 of the Government Code, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit or any other security mutually agreed to by the Contractor and the County, in the sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) are hereby deposited with the Director of Finance of the County of Glenn in consideration of the County of Glenn paying to the Contractor forthwith such money that the Contractor is otherwise entitled to and withheld pursuant to said Project.

2. The contractor shall be the beneficial owner of said securities substituted for money withheld or cash bond and shall receive any interest thereon.

**COUNTY OF GLENN**

**AGREEMENT TO DEPOSIT SECURITIES FOR FUNDS WITHHELD  
(continued)**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

3. Said securities and/or bank deposits shall be in the name of the County of Glenn as legal owner or under written assignment or endorsement to the County of Glenn or delivered with a Power of Attorney issued to the County of Glenn to sell or dispose of the same.

4. The County of Glenn shall hold said securities and/or bank or savings and loan certificates of deposit until such time as the Contractor would be entitled to the sum withheld, and at that time, the securities and/or bank or savings and loan certificates of deposit shall be returned to the Contractor if no legal claim or stop notice to said funds has been filed or served upon the County within the interim period. If, during said withholding period, a legal claim or stop notice should be filed with or served upon the County demanding or requesting said funds, and if on notice to the Contractor said claim or stop notice should not be disposed of within ten (10) days, the County is authorized to sell, cash or dispose of said securities or bank or savings and loan certificates of deposit in order to reduce the same to cash funds to be withheld, paid or distributed in accordance with the terms and provisions of said Project, any order or judgment of court, or any other provision of law.

IN WITNESS WHEREOF, THE County and the Contractor have caused this Agreement to be executed and signed on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

COUNTY OF GLENN

CONTRACTOR

By \_\_\_\_\_  
Board of Supervisors

Name of Contractor \_\_\_\_\_

ATTEST:

By \_\_\_\_\_

\_\_\_\_\_  
County Clerk

Title \_\_\_\_\_

**COUNTY OF GLENN  
ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF CASH**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

This escrow Agreement is made and entered into by and between the County of Glenn, General Services, a Municipal Agency, whose address is 525 W. Sycamore Street, Suite B1, Willows, California 95988, sometimes hereinafter called "Owner", and \_\_\_\_\_ whose address is \_\_\_\_\_ hereinafter called "Contractor", and \_\_\_\_\_ whose address is \_\_\_\_\_ hereinafter called "Escrow Agent".

For the consideration hereinafter set forth, the Owner, Contractor and Escrow Agent agree as follows:

- (1) Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to the Construction Contract entered into between the Owner and Contractor for said Project in the amount of \_\_\_\_\_ dated \_\_\_\_\_ (hereinafter referred to as the "Contract"). When Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Owner within ten (10) days of the deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as retention under the terms of the Contract between the Owner and Contractor. Securities shall be held in the name of \_\_\_\_\_, and shall designate the Contractor as the beneficial owner.
- (2) The Owner shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.
- (3) Alternatively, on written request of the Contractor, Owner shall make payments of the retention earnings directly to the Escrow Agent. When the Owner makes payment of retentions earned directly to the Escrow Agent, the escrow Agent shall hold them for the benefit of the Contractor until the time that the escrow created under this contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the Owner pays the Escrow Agent directly.
- (4) Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account and all expenses of the Owner. These expenses and payment terms shall be determined by the Owner, Contractor, and Escrow Agent.
- (5) The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be subject to withdrawal by contractor at any time and from time to time without notice to the Owner.
- (6) Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Owner to the Escrow Agent that Owner consents to the withdrawal of the amount sought to be withdrawn by Contractor.
- (7) The Owner shall have the right to draw upon the securities in the event of default by the Contractor. Upon seven (7) days written notice to the Escrow Agent from the owner of the default, the escrow agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the Owner.
- (8) Upon receipt of written notification from the Owner, certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.
- (9) Escrow Agent shall rely on the written notifications from the Owner and the Contractor pursuant to Sections (5) to (8), inclusive, of this agreement and the Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release

and disbursement of the securities and interest as set forth above.

**COUNTY OF GLENN  
ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF CASH  
(Continued)**

**ORLAND MEMORIAL PARK  
ACCESSIBILITY AND BEAUTIFICATION PROJECT**

(10) The names of the persons who are authorized:  
On behalf of the County:

On behalf of the Contractor:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
Telephone

On behalf of the Escrow Agent:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
Telephone

At the time the Escrow Account is opened, the Owner and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date set forth below:

COUNTY OF GLENN:  
A Municipal Agency

CONTRACTOR:

ESCROW AGENT:

\_\_\_\_\_  
Board of Supervisors

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Escrow Agent

ATTEST:

\_\_\_\_\_  
Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
County Clerk

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

## SECTION G - GENERAL PROVISIONS

The following General Provisions supplement and amend the Standard Specifications for Public Works Construction “Greenbook” (latest edition), including current Supplements. As a reference convenience, they have been arranged into a sequence which parallels the arrangement of the Standard Specifications.

Time of completion: The time of completion for this contract shall be 120 working days.

Bidders with pre-bid inquiries for this project should email Di Aulabaugh, Director, at [facilities2@countyofglenn.net](mailto:facilities2@countyofglenn.net) or call (530) 934-6545.

## SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS AND SYMBOLS

### 1-2 TERMS AND DEFINITIONS.

*Add the following definitions:*

1. Acceptance - The formal written acceptance by the County of an entire contract which has been completed in all respects in accordance with the contract documents and any modification thereof previously approved.

2. County - The County of Glenn, a municipal corporation, 5050 Clark Avenue, Glenn, California.

3. County Supervisor - County Supervisor shall mean the County Supervisor of the County of Glenn, a municipal agency.

4. County Director - County Director shall mean the County Director of the County of Glenn, General Service, or his representative. The County Director of the County of Glenn has administrative control over all County employees.

5. Claim - A separate demand by the Contractor for a time extension, payment of money or damages arising from work done by or on behalf of the Contractor pursuant to the Contract and claimant is not otherwise entitled to, or an amount the payment of which is disputed by the County.

6. Director of General Services - The Director of General services of Glenn or authorized delegee.

### 1-7 AWARD AND EXECUTION OF THE CONTRACT.

#### 1-7.1 General

*Add the following before the first paragraph.*

The proposal, requirements and conditions are generally stated in the Notice Inviting Bids, Instructions to Bidders, and the Bid Form. No bid will be considered unless said bid is submitted in accordance with said Notice Inviting Bids, Instructions to Bidders, and the Bid Form. Bids not presented on the forms provided by the County will be rejected. In addition, the following conditions apply to said bids:

*Add the following subsections:*



1-7.1.1 Rejection of Bids. Bids may be rejected if they show any alteration of the form, additions not called for, conditional bids, incomplete bids, or irregularities of any kind.

When bids are signed by an agent, other than the officer or officers of a corporation authorized to sign contracts on its behalf, or a member of a partnership, a power of attorney must be filed with the County prior to opening bids or shall be submitted with the bid. Otherwise, the bid will be rejected.

The County reserves the right to reject any and all bids, and to revoke at any time before execution of the contract by the County and successful bidder, any award of contract. If a mandatory pre-bid conference is required, any bid from a contractor who did not attend the mandatory pre-bid conference will be returned unopened.

1-7.1.2 Withdrawal of Bids. Any bid may be withdrawn at any time prior to the time fixed for the opening of bids upon the written request for withdrawal of the bid by the bidder. The withdrawal of a bid does not prejudice the right of the bidder to file a new bid within the allotted time.

1-7.1.3 Public Opening of Bids - No bid will be accepted after the time has expired for opening or bids. Whether or not bids are opened exactly at the time fixed in the Notice Inviting Bids, a bid will not be accepted after that time, nor may any bid be withdrawn after the time fixed in the Notice Inviting Bids for the opening of bids. Bids will be opened and read publicly at the time and place indicated in the Notice Inviting Bids, or as soon thereafter as possible. Bidders or their authorized agents are invited to be present at the time of opening said bids.

1-7.1.4 Disqualification of Bidders

More than one bid from any individual, firm, partnership, corporation or combination thereof under the same or different names will not be considered. Reasonable grounds for believing that any individual, firm, partnership, corporation or combination thereof is interested in more than one bid for the work contemplated may cause the rejection of all bids in which said individual, firm, partnership, corporation or combination thereof is interested. If there is any reason for believing that collusion exists among the bidders any and all bids of such bidders may be rejected.

1-7.1.5 Competency of Bidders - The County reserves the right to award the contract to the lowest responsible bidder. Responsible bidder may not mean, in fact, the "lowest" bidder. Where a State Contractor's License is required by law, the County may not award a contract to a person, firm, partnership, or corporation other than one properly licensed under applicable law.

1-7.1.6 Mistakes in Bid - Attention is directed to the provisions of California Government Code Sections 5100 to 5108, inclusive, concerning relief of bidders and in particular to the requirement therein, that if the bidder claims a mistake was made in his bid, the bidder shall give written notice within five (5) business days after the opening of the bids of the alleged mistake, specifying in the notice in detail how the mistake occurred.

1-7.1.7 California State Contractor's License - All bidders, contractors and subcontractors shall be licensed in accordance with the laws of the State of California.

1-7.1.8 County Business License - The successful contractor and any subcontractor thereof will be required to comply with the County Business Licensing provisions. No free or exempt license will be issued by the County.

1-7.1.9 Bid Protest Procedure – A formal bid protest must be made within 5 calendar days from the time and date of the bid opening. The protest must be addressed in accordance with Section

1-7.1.10 – Notices

State the name and company of the protester and the reasons for the protest.

1-7.2 Contract Bonds.

*Add the following after the third sentence of the first paragraph:*

In addition, all bonds shall be written and executed by a corporate surety with a Best's rating of A:VII or better. All alterations, extensions of time, extra and additional work, and other changes authorized by the contract may be made without the consent of the surety or sureties on the contract bonds. It shall be the duty of the Contractor to advise its surety of any changes to the contract that may affect the surety.

*Add the following subsections:*

### 1-7.3 Execution of Contract.

1-7.3.1 Execution of Contract The contract shall be signed by the successful bidder and returned, together with the contract bonds, and other required contract documents, within ten (10) days after the bidder has received notice that the contract has been awarded.

1-7.3.2 Return of Bidder's Security Once the contract with the successful bidder has been executed, the County will return the bidder's security to bidders who are not to be further considered in making the award, except any bidder's security which has been forfeited.

#### 1-7.3.3 Notices

All notices shall be in writing and delivered in person or transmitted by mail or email.

Notices required to be given to the County shall be addressed as follows:

Glenn County General Services  
525 W. Sycamore Street, Suite B1  
Willows, CA 95988  
Contact: Di Aulabaugh, Director  
Email: [facilities2@countyofglenn.net](mailto:facilities2@countyofglenn.net)  
Phone: (530) 934-654

## SECTION 2 - SCOPE OF THE WORK

### 2-1 WORK TO BE DONE.

*Add the following:*

The work shall be performed to the satisfaction of and approved by the Director of General Services before being submitted to the County Supervisor for final acceptance and approval.

*Add the following subsection:*

#### 2-1.1 Record Documents

The contractor shall keep accurate records on a set of project plans of all additions and deletions to the work, and of all changes in location, elevation and character of the work not otherwise shown or noted on contract documents. Prior to field acceptance of the work, the Contractor shall transmit this "as built" plan to the County for approval and to be retained for County records.

On building construction contracts the Contractor shall record the exact location, by dimension, and the exact depth, by elevation, of all underground lines, valves, plugged Tees, capped ends, etc. The contractor shall record, by dimension or scale drawings, all wiring, conduits, and pull boxes as actually installed. All information necessary to maintain and service any concealed work shall be noted on these record drawings. This data shall be legibly recorded on the project plans to the satisfaction of the County. Records shall be kept up-to-date with all entries checked by the County before the work is buried or covered up. These drawings shall be delivered to the County upon completion of the work.

### 2-2 PERMITS.

*Add the following:*

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. The website for contractor

registration with the Department of Industrial Relations (DIR) is <https://efiling.dir.ca.gov/PWCR>; the annual non-refundable fee, valid July 1 through June 30 (state fiscal year), is \$300.

Contractors who are awarded a public works project must submit electronic payroll records to the DIR's Compliance Monitoring Unit (CMU) in addition to providing wet-ink original copies to the County or its designated labor compliance enforcement officer.

*Add the following subsection:*

2-2.1 Building Permits. The Contractor shall submit to the County a signed application requesting a building permit authorizing the Contractor to perform the work within the project boundaries. All fees associated with the various building permits required depending upon the scope of work, shall be the responsibility of the County.

## 2-3 RIGHT-OF-WAY.

*Delete the last sentence and add the following:*

The Contractor shall conduct all of its activities and operations within the rights-of-way provided by the County or within the confines of public thoroughfares. The Contractor shall not allow his employees to use private property for eating, coffee breaks, or any other reason or use water or electricity from such property without written permission from the owner.

If, for any reason, the Contractor elects to encroach upon other lands, he shall first obtain written permission from the owner and provide evidence of such permission in writing to the Engineer prior to entering upon such lands. In performing any work or doing any activity on lands outside of public rights-of-way, the Contractor shall comply with all applicable federal, state and local laws, ordinances, and regulations.

The Contractor shall indemnify and hold the County harmless from all claims for damages occasioned by such work or activity, whether done in compliance with this section and with permission or in violation of this section without permission.

## 2-5 THE CONTRACTOR'S EQUIPMENT AND FACILITIES.

### 2-5.1 General

*Add the following subsections:*

### 2-5.1.2 Specifications

The work to be done shall be performed or executed in accordance with these Special Provisions and the following which are included by reference only:

- 1) The Standard Specifications for Public Works Construction, latest edition, including all Supplements, hereinafter referred to as the "Standard Specifications", or "Greenbook". The Standard Specifications are published by Building News, Inc., 909 Park Center Drive, suite E, Vista, CA 92081. Phone: 1-760-734-1113. [www.bnibooks.com](http://www.bnibooks.com)

### 2-5.2 Temporary Utility Services.

*Add the following:*

Contractor shall be responsible for furnishing all necessary water for use in completing this work. Fire hydrant meters shall be obtained from the water purveyor serving the areas in which the work is to take place. The County of Glenn serves the area within the County and application for the hydrant meter is available at Glenn County General Services, 525 W. Sycamore Street, Suite B1, Willows, CA 9598.

## SECTION 3 – CONTROL OF THE WORK

### 3-5 INSPECTION

*Add the following:*

Inspection services shall be furnished by the County as needed on an eight (8) hour day and forty (40) hour week basis. Any additional inspection that is required in excess of the foregoing shall be paid for by the contractor at the County's actual cost, including overhead expenses.

### 3-7 Contract Documents

#### 3-7.1 General.

*Add the following subsections:*

- 1) Standard Plans and Details (included by reference only):

a. Standard Plans for Public Works Construction, latest edition. These plans are available from Building News, Inc., 909 Park Center Drive, suite E, Vista, CA 92081. Phone: 1-760-734-1113. [www.bnibooks.com](http://www.bnibooks.com)

2) Extra Construction Document Sets Provided by the County. The County will provide 1 hard copy set of project plans and specifications to the contractor at the pre-construction meeting.

### 3-7.2 Precedence of Contract Documents

*Replace the following for the listing of precedence under the first paragraph:*

- 1) Permits from other agencies as may be required by law
- 2) Change orders, supplemental agreements and approved revisions to Plans and Specifications
- 3) Addenda
- 4) Contract/Agreement/Purchase Order
- 5) Bid/Proposal
- 6) Special Provisions/Technical Specifications
- 7) Project Plans
- 8) General Provisions
- 9) Standard Specifications for Public Works Construction, “Greenbook” as amended by Supplements
- 10) Standard Plans
- 11) Reference Specifications
- 12) Notice Inviting Bids

### 3-9 SUBSURFACE DATA.

*Add the following:*

Where the County has made investigations of the sub-surface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, such investigations are made only for the purpose of study and design. Where such investigations have been made, bidders or contractors may, upon written request, inspect the records of the County as to such investigations subject to and upon the conditions hereinafter set forth.

The records of such investigations are not a part of the contract and are shown solely for the convenience of the bidder or contractor. It is expressly understood and agreed that the County assumes no responsibility whatsoever in respect to the sufficiency or accuracy of the investigations thus made, the records thereof, or the interpretations set forth therein, and that there is no warranty or guaranty, either expressed or implied, that the conditions

indicated by such investigation or records thereof are representative of those existing throughout such areas, or any part thereof, or that unlooked-for developments may not occur, or that materials other than, or in proportions different from those indicated, may not be encountered.

When a log of test borings showing a record of the data obtained by the County's investigation of subsurface conditions is included in the contract plans, it is expressly understood and agreed that said log or test borings does not constitute a part of the contract, represents only the opinion of the County as to the character of the materials encountered by it in its test borings, is included in the plans only for the convenience of the bidders and its use is subject to all of the conditions and limitations herein set forth.

### 3-10 SURVEYING

*Add the following:*

The Contractor shall preserve all benchmarks, monuments, survey marks, centerline ties and stakes and, in case of their impending removal or destruction by his/her operations he/she shall be responsible for notifying the County Engineer **prior** to their removal. Failure to provide such notification will result in the Contractor being liable for all costs associated with their replacement.

*Add the following Sub-section:*

#### 3-10.3 Survey Service.

The Contractor shall be responsible for providing all survey service including, but not limited to, survey control, construction staking, and cut sheets, as deemed necessary and to the satisfaction of the Engineer to complete the scope of work. Failure to provide any or all survey service shall be cause for the Engineer to issue a stoppage of work until the survey service is provided. Any delay because of the work stoppage shall be at the Contractor's sole expense including any liquidated damages arising therefrom.

The line and grades for construction will be parallel to and offset from the position of the work. From the established lines and grades, the Contractor shall extend the necessary lines and grades for construction of the work and shall be responsible for the correctness of same.

*The following section is hereby added:*

#### 3-10.4 Measurement and Payment.



Full compensation for Survey including furnishing all labor, materials, tools, equipment, surveyor, supervision, and incidentals for doing all the work involved shall be considered as included in the other items of work.

### 3-12 WORK SITE MAINTENANCE.

#### 3-12.1 General

*Subsection 3-12.1 of the Standard Specifications is hereby amended to include the following:*

The Contractor shall provide and operate a self-loading motor sweeper with spray nozzles every day for the purpose of keeping the entire project site clean as acceptable to the County Engineer. Payment for the cleanup and dust control shall be included in the price paid for other items of work. No additional payment will be made for project site maintenance.

#### 3-12.6 Water Pollution Control.

*Subsection 3-12.6 of the Standard Specifications is hereby amended to include the following:*

The Contractor shall prepare and submit the Storm Water Pollution Prevention Plan (SWPPP) per Standard Specifications Section 3-12.6.3 which covers all work of his forces and those of his subcontractors. The SWPPP shall be approved by the County Engineer or his designee.

The Engineer may request modification of the SWPPP, if he finds that the permit requirements have not been satisfied. The SWPPP shall be available at the construction site from the beginning of construction until project completion. The SWPPP has been identified by the Federal Clean Water Act as public information and shall be made available by the Contractor, during normal business hours, for review by interested members of the public.

The Contractor shall modify the SWPPP, as required by the Construction Activity Permit, when changed conditions or changes to construction methods cause the SWPPP to be ineffective. Any and all modifications to the SWPPP shall be filed with the Agency prior to implementation at the construction site. Payment for changes to the SWPPP shall be included in the other bid items of work unless the Agency agrees that the condition was caused by forces beyond the Contractor's control. Payment shall then be made per Section 3-3. The Contractor shall be responsible for reporting all illegal discharges from the construction site, as required by the Construction Activity Permit.

*Add the following Subsection:*  
3-12.7 Drainage Control.

Subsection 7-8.7 is hereby added to the Standard Specifications:

The Contractor shall maintain drainage through the work area. Desilting basins, sandbags, and other requirements of the SWPPP shall be implemented, as required by the SWPPP, at all times to prevent non-storm water discharges prohibited by the Clean Water Act. All inspections of the site and Pollution Control Facilities required by the SWPPP shall be the sole responsibility of the Contractor or his designee.

The Contractor shall defend and hold harmless the AGENCY, its officers, its employees, the Engineer, Consultant and agents, including Willdan from all liability for non-compliance with the requirements of the SWPPP, as they relate to work under his control or upon the construction site under his control.

3-12.6.5 Payment.

*The following is hereby added to this section.*

Payment for preparing and submitting SWPPP to the jurisdictional regulatory agency as required and all work to implement the SWPPP shall be included in the payment for Special Project Site Maintenance and Public Convenience and Safety and no additional payment therefor.

Payment for Special Project Site Maintenance and Public Convenience and Safety shall be paid for at the Lump Sum(LS) contract bid price and shall include full compensation for, but not limited to, furnishing all labor, materials, equipment, tools, and incidentals required to complete all work in place as directed by the Engineer, shown on the standard specifications, plans, and these special provisions and no additional compensation will be allowed therefor.

#### SECTION 4 – CONTROL OF MATERIALS

*This section not modified.*

#### SECTION 5 -LEGAL RELATIONS AND RESPONSIBILITES

##### 5-4 INSURANCE.

##### 5-4.1 General.

*Add the following:*

The liability insurance policy must contain the following language: “ADDITIONAL INSURED UNDER THIS POLICY: The County of Glenn, their officers and employees, while acting within the scope of their duties against all claims arising out of or in connection with the work to be performed.”

*Add the following after the first paragraph:*

The policy shall be conditioned to cover the performance of “Extra Work” should such work become necessary.

The cancellation clause on the certificate of insurance must be modified to stipulate that 30 days notice must be given in the event of cancellation. Language such as “will endeavor to” or “failure to mail such notice shall impose no obligation...” is not acceptable and must be struck out.

#### 5-4.2 General Liability Insurance

*Delete the second paragraph and insert the following:*

The Contractor may file insurance acceptable to the County covering more than one project. The coverage shall provide the following minimum limits:

Bodily Injury           \$5,000,000 each person  
\$5,000,000 each occurrence  
\$5,000,000 aggregate products and completed operations

Property Damage     \$5,000,000 each occurrence  
\$5,000,000 aggregate

A combined single limit policy with aggregate limits in the amount of five million (\$5,000,000) dollars will be considered equivalent to the required minimum limits.

## SECTION 6 – PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK

### 6-6 DELAYS AND EXTENSIONS OF TIME

#### 6-6.1 General.

*Add the following after the last paragraph:*

No extension of time will be granted for a delay caused by the contractor's failure to order materials in a timely manner.

## 6-7 TIME OF COMPLETION

*Add the following:*

### 6-7.2 Working Hours.

The Contractor shall not conduct any of the work on a non-working day or prior to 7:00 a.m. or after 5:00 p.m. of any working day, except where approved by the County or authorized representative. The County in authorizing any overtime work by the contractor or a subcontractor may require as a condition thereof that the contractor or subcontractor pay to the County the County's actual cost of providing inspection, supervision and other overhead expenses during such overtime periods and may require an appropriate deposit as security for said inspection services. Said additional cost may be deducted from any payment to the contractor pursuant to the agreement authorizing the work.

### 6-8.3 Warranty

*Add the following:*

Notwithstanding the foregoing, if defective work creates a dangerous condition or requires immediate correction or attention to prevent further loss to the County, or to protect the public interest or safety, the County will attempt to give the aforementioned notice, but if it cannot do so because of the demand for immediate attention, the County may proceed to make such corrections and the cost of corrections shall be charged to the contractor.

This sub-section does not in any way limit any guarantee on any item for which a longer guarantee is specified, or on any item for which a manufacturer gives a guarantee for a longer period, nor does it limit other remedies to the County in respect to latent defects, fraud or implied warranties. Contractor shall furnish the County all appropriate guarantee or warranty certificates upon completion of the project.

## 6-9 LIQUIDATED DAMAGES.

*In the first two paragraphs, substitute one thousand (\$1,000) dollars in place of two hundred, fifty (\$250) dollars as the amount of the liquidated damages per each consecutive calendar day.*

*Add the following as the third paragraph:*

In the event the work called for under the contract is not finished and completed in all parts and requirements within the number of days specified, the County shall have the right to increase the number of days or not, as it may deem best to serve the interest of the County. The County may increase the number of days in lieu of charging liquidated damages.

## SECTION 7 – MEASUREMENT AND PAYMENT

### 7-3 PAYMENT.

#### 7-3.1 General.

*Add to the end of the second paragraph:*

If there is no bid item for a particular item of work, full compensation for such work shall be considered as included in the prices bid for other items of work.

*Add the following:*

#### 7-3.9 Releases

Before the Contractor shall be entitled to payments(s), the Contractor shall execute and file with the County certain releases, which comply with Section 3262 of the Civil Code and which are acceptable to the County, releasing the County from all claims or liability relating to undisputed contract amounts for work performed in relation to said amounts as follows:

1. First Progress Payment – A conditional release applicable to the payment being requested is required.
2. Subsequent Progress Payments – An unconditional release applicable to all previous payments and a conditional release applicable to the payment being requested.
303. Release of Retention – An unconditional release applicable to all previous payments and a conditional release applicable to the retention payment being requested.

In the case of contracts involving one or more subcontractors, the Contractor shall file with the County certain releases as described above, in the manner described above, for each subcontractor and/or material supplier applicable to the work as proportioned in the accepted Schedule of Values, where payment is being requested by or has been made previously to the Contractor.

*Add the following subsection:*

7-4 EXTRA WORK.

7-4.1 General.

*Delete Section 7-4.3 and add the following:*

7-4.3 Markup

The markups mentioned hereinafter shall include, but are not limited to, all costs for the services of superintendents, project managers, timekeepers and other personnel not working directly on the change order, and pickup or yard trucks used by the above personnel. These costs shall not be reported as labor or equipment elsewhere, except when actually performing work directly on the change order, and then shall only be reported at the labor classification of the work performed.

Contractor shall not be entitled to receive any compensation for delay for Contract Time extensions resulting from Extra Work. Where Contract Time extensions result from or are granted in change orders which authorize Extra Work, payment by the County to the Contractor in consideration of any such Extra Work, pursuant to Section 7-4.1, shall constitute compensation in full for delay, interruption or disruption resulting from or arising out of any such Extra Work.

7-4.3.1 Work By Contractor The following percentages shall be added to the Contractor's costs and shall constitute the markup for all overhead and profits:

- |    |  |     |
|----|--|-----|
| 1) | Labor . . . . .                        | 10% |
| 2) | Materials . . . . .                    | 10% |
| 3) | Equipment Rental . . . . .             | 10% |
| 4) | Other Items and Expenditures . . . . . | 10% |

In addition to the markups defined herein, the Contractor shall be compensated for the actual increase in the Contractor's bond premium caused by the extra work, as evidenced by documentation substantiating said cost.

7-4.3.2 Work by Subcontractor When all or any part of the extra work is performed by a Subcontractor, the markup established in 7-4.3 (a) shall be applied to the Subcontractor's actual cost of such work. A markup of 10 percent on the first \$5,000 of the subcontracted portion of the extra work and

a markup on 5 percent on work added in excess of \$5,000 of the subcontracted portion of the extra work may be added by the Contractor. The markup by the Sub-Contractor on his own costs shall not exceed 10%.

#### 7-6 RESOLUTION OF CONSTRUCTION CLAIMS.

If the contractor shall claim compensation for any damages sustained by reason of the acts of the County or its agents, he shall, within five (5) days after sustaining such damages, file with the Engineer a written statement of the damage sustained. On or before the fifteenth (15<sup>th</sup>) day of the month next succeeding that in which any such damages shall have been sustained, the contractor shall file with the Engineer an itemized statement of the details and amounts of such damages, and unless such statement shall be made as thus required, his claim for compensation shall be forfeited and invalidated, and he shall not be entitled to the consideration of payment on account of any such damages.

For claims of less than fifty thousand (\$50,000) dollars, the County will respond in writing to any written claim within forty-five (45) days of receipt of the claim, or may request, in writing within thirty (30) days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the County may have against the Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to mutual agreement of the County and the Contractor. The County's written response to the claim, as further documented, will be submitted to the Contractor within fifteen (15) days after receipt of the further documentation or within a period of time no greater than that taken by the Contractor in producing the additional information, whichever is greater.

For claims of over fifty (\$50,000) dollars and less than or equal to three hundred, seventy-five thousand (\$375,000) dollars, the County will respond in writing to all written claims within sixty (60) days of receipt of the claim, or may request, in writing, within thirty (30) days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the County may have against the Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to mutual agreement of the County and the Contractor. The County's written response to the claim, as further documented, will be submitted to the Contractor within thirty (30) days after receipt of the further documentation, or within a period of time no greater than that taken by the Contractor in producing the additional information or requested documentation, whichever is greater.

If the Contractor disputes the County's written response, or the County fails to respond within the time prescribed, the Contractor may so notify the County, in writing, either within fifteen (15) days of receipt of the County's response or within fifteen (15) days of the County's failure to respond within the time prescribed,

respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the County will schedule a meet and confer conference within thirty (30) days for settlement of the dispute.

If, following the meet and confer conference, the claim or any portion remains in dispute, the Contractor may file a claim pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the Contractor submits his written claim until the time the claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer conference.

#### 7-8 PROJECT SITE MAINTENANCE.

*Add the following:*

The contractor shall make his own arrangements for disposal of materials outside the County premises or right-of-way, and he shall pay all costs involved. **(County's authorized disposal service company?)** has the exclusive right of collection of refuse and construction materials & demolition debris (C&D) in the County of Glenn and may be reached at **(phone?)** The only exception is if the Contractor can provide evidence that the construction disposal containers to be utilized on this project are owned by the General Contractor. The Contractor shall comply with the County's Waste Management Planning for C & D Projects" document contained in the Appendix of these specifications, and complete and submit "C & D Materials Estimate" forms to the County of Glenn, General Services upon completion of demolition work



## **SPECIAL PROVISIONS**

## PART 2

### CONSTRUCTION MATERIALS

#### SECTION 200 – ROCK MATERIAL

##### 200-1 ROCK PRODUCTS

200-1.3 Gravel. Pea gravel for irrigation valve box drainage shall have 100 percent passing the 3/8-inch sieve and less than 5 percent passing the No. 8 sieve.

200-1.7 Stone.

*Add the following:*

200-1.7.1 General. Stone for decorative stone facing/veneer shall be as specified on the drawings.

##### 200-2 UNTREATED BASE MATERIALS

200-2.1 General. Untreated base shall be crushed aggregate base.

200-2.2 Crushed Aggregate Base.

200-2.2.3 Quality Requirements. The minimum R-value requirement will not be waived.

*Add new section as follows:*

##### 200-5 DECOMPOSED GRANITE

200-5.1 Decomposed Granite shall meet the requirement of Section 200-2.7 for Disintegrated Granite. Maximum particle size shall be No. 4 sieve.

##### Decomposed Granite

Decomposed granite and installation shall be as specified on the plans.

Color: As specified on the drawings.

Stabilizer: As specified on the drawings.

(Verify color with County Engineer prior to ordering.)

#### SECTION 201 – CONCRETE, MORTAR, AND RELATED MATERIALS

##### 201-1 PORTLAND CEMENT CONCRETE

201-1.1 Requirements.

201-1.1.1 General.

*Add the following:*

The same brand type, source of cement, and aggregate shall be used for all Portland cement concrete per the approved submittal.

201-1.1.2 Concrete Specified by Class and Alternate Class.

*Add the following:*

Concrete for integral color, stamped concrete paving and retardant finish surface paving and walkway shall be Class 560-E-3250 with 4-inch maximum slump.

Concrete for mow curb, backflow preventer pad, electrical meter cabinet foundation, statue/sculpture pedestal and footing, playground equipment footing, monument sign footing, tubular steel fence footing, handrail footing, light pole foundation and light fixture base shall be Class 560-C-3250 with a 4-inch maximum slump.

Fly ash shall not be used.

201-1.2 Materials.

201-1.2.4 Chemical Admixtures.

*Add the following:*

**Method “B”**

Colored concrete shall be equal to admixture for color-conditioned concrete by Sika Company, Davis Colors or equal. Color shall be as specified on the drawings; notwithstanding final determination, color, and sealer shall be as shown in the table below:

<b>Color:</b>	Davis Colors – Per Plan
<b>Clear Sealer:</b>	Davis Colors – Rated for slip – coefficient on wet surfaces.

Refer to Section 201-4.1.1 Color Curing Compound, in these Special Provisions.

Prior to start of color, stamped concrete work, Contractor shall submit (1) 2 ft x 2 ft mocked-up samples to the Engineer for approval, together with three copies of the manufacturer's printed instructions, bulletins, and specifications.

Retarding Densifier. The material shall be of the hydroxylated carboxylic acid type in liquid form and shall not entrain air or cause foaming. The retarding densifier shall be used in strict compliance with the printed recommendations of the manufacturer. There shall be no reduction in the cement content of the concrete mix because of the addition of the retarding densifier.

The admixture shall be such that its addition to the concrete mix will:

- a. Decrease drying shrinkage;
- b. Increase compressive strength for all concrete strength for all concrete ages from 3 days to 1 year;
- c. Increase flexural strengths, modulus of elasticity and abrasion resistance;
- d. Increase the slump and placement workability;
- e. Retard the initial set and increase the density; and
- f. Shall contain no calcium or tri-ethanolamine.

At the discretion of the Engineer, the Contractor may be required to submit proof that the admixture he proposed to use meets the foregoing requirements. Such proof shall be in the form of comparative tests of plain and admixture containing mixes performed by an acceptable local laboratory with testing based on use of the project materials and in accordance with the requirements of ASTM C 157. An approved admixture conforming to these requirements is plastiment retarding densifier in liquid form.

## 201-2 STEEL REINFORCEMENT FOR CONCRETE

201-2.2.1 Reinforcing Steel. The following is hereby added to Subsection 201-2.2.1 of the standard specifications:

All steel, except longitudinal steel, for design pipe, box conduit, Transition Structures Nos. 1, 2, 4, 5, 6, and 7, and special structures shall be Grade 60 billet steel conforming to ASTM A-615.

## 201-3 EXPANSION JOINT FILLER AND JOINT SEALANTS

201-3.1 General.

*Add the following:*

Contractor shall submit materials to Engineer for approval.

201-3.4 Type “A” Sealant (Two-Part Polyurethane Sealant).

*Add the following:*

Sealant shall be Type “A” with Polyethylene foam filler. Submit two samples to the Engineer for approval.

#### 201-4 CONCRETE CURING MATERIALS

201-4.1 Membrane Curing Compounds.

201-4.1.1 General.

*Add the following:*

Concrete curing compound shall be Type 1-D.

Color curing compound for colored or stamped concrete shall be the same color and manufacturer as the color hardener.

### SECTION 206 – MISCELLANEOUS METAL ITEMS

*Add new section as follows:*

#### 206-7 ORNAMENTAL FENCING AND HANDRAIL

206-7.1 Materials.

Prefabricated aluminum garden fence and tubular galvanized steel handrail shall be as specified on the drawings.

206-7.2 Submittals.

206-7.2.1 General. Contractor shall submit three (3) hard copies or (1) electronic file of shop drawings, material lists, paints, and manufactured item submittals to the Engineer for review within 15- calendar days of award of contract.

206-7.2.2 Shop Drawings. Shop drawings shall be submitted in accordance with Section 3.8 of the Standard Specifications.

Shop drawings for ornamental fence and handrail shall indicate complete layout of the work based on field measurements and shall clearly indicate all deviations from the Plans.

Shop drawings for ornamental fence and handrail shall not be copies of details on the Plans but shall be supplemental drawings indicating methods of fabrication and installation, hardware and material list. Certificates of compliance of material to the specification shall be furnished.

206-7.2.3 Manufactured Items. Catalog cuts and manufacturer's specifications shall be submitted for all items to be incorporated in the work.

## SECTION 210 – PAINT AND PROTECTIVE COATINGS

### 210-1 PAINT

210-1.5 Paint Systems. Add the following:

210-1.5.1 Paint System for ornament aluminum garden fence. Ornamental aluminum garden fence paint system shall be applied by the fence manufacturer.

*Add new section as follows:*

### 210-6 ANTI-GRAFFITI COATINGS

210-6.1.1 General Requirements. Anti-graffiti coating system shall be from one manufacturer. All materials shall be delivered to the site of work in new, unopened, airtight containers, and shall be appropriately identified with manufacturer's name, date of manufacture, type of material, and lot or batch number.

210-6.1.2 Anti-Graffiti Coating System. The coating system shall be as manufactured by:

Rainguard Pro

2736 West McDowell Rd

Phoenix, AZ 85009

Telephone: (800) 272-4647

Website: [www.rainguardpro.com](http://www.rainguardpro.com)

Distributor: Dunn Edwards Paint Corporation

Contact Person:

Mr. Larry Loo  
Telephone No.: (626) 590-7777  
Email: [larry.loo@dunnedwards.com](mailto:larry.loo@dunnedwards.com)

or

Ms. Jamilla Davis  
Telephone No.: (310) 909-3769  
Email: [jamilla.davis@dunnedwards.com](mailto:jamilla.davis@dunnedwards.com)

#### 210-6.1.3 Products.

- a. For porous surfaces. Rainguard Blok-Lok with Graffiti Control with Micro-Lok.

Warranty Period: 10 years water repellent warranty.

- b. “VandlGuardFive” non-sacrificial Anti-Graffiti Coating is a chemically resistant one part, water-based, cross-linked co-polymer emulsion that dries to a clear colorless film. It shall have a 5-year warranty and be used in conjunction with VandlGuard” Finish Coat.
- c. “VandlGuard” Finish Coat Anti-Graffiti Barrier is a water-base emulsion that dries to a clear and non-yellowing matte finish. It is V.O.C. compliant, non-flammable, and is to be used as a final coat over “VandlGuardFive” graffiti protection system.
- d. “Vandl-Clean Super” is a citrus-based Delimonere concentrated cleaner and degreaser, all-purpose, environmentally safe and ready to use.

210-6.1.4 Submittals. Submit (3) three copies of manufacturer’s data to the Engineer in accordance with Section 3.8 Submittals of the SSPWC.

*Add new Section 218 as follows:*

## SECTION 218 – SITE FURNISHINGS

### 218-1 GENERAL

All site furnishings shall be as called out on the drawings and shall conform to drawing details of these Specifications.

Site furnishings include, but are not limited to, the following:

- Benches
- Picnic tables
- Trash receptacles
- Prefabricated Tubular Steel Fence
- Monument Sign
- Sculpture/Statue
- County Furnished Dedication Bricks/Pavers
- Existing Boy Scout Fire Pit Monument Refurbishment
- Splash Guard

Submit three (3) copies of manufacturer's catalog cut sheets, shop drawings and installation instructions for approval.

Where a manufacturer's name and model number are shown on the drawings, that item shall be furnished. No substitution will be allowed.

## 218-2 PRODUCTS

No substitutions will be considered. All site furnishings shall meet the requirements of the Americans with Disabilities Act (ADA), ASTM F-1487-98 and Consumer Product Safety Commission (CPSC) guidelines.



**PART 3**  
**CONSTRUCTION METHODS**

SECTION 300 – EARTHWORK

300-1 CLEARING AND GRUBBING

300-1.1 General.

*Add the following:*

Demolition and removal of PCC sidewalk and irrigation equipment; turf; root shaving; tree and shrub removal; unclassified excavation; site furnishing, and amenities and other such items not mentioned that are required by the Plans and Specifications, are part of this work in this section.

Prior to demolition, removals, and earthwork, the Contractor shall install and maintain a temporary 6-foot high chain-link fence with a minimum of two access gates and perimeter fence to protect the area of improvements during construction period. Payment for temporary perimeter fences and gates shall be included in the price bid for clearing, grubbing and removal.

Existing protection of large mature trees: Contractor shall install and maintain temporary fencing [orange environmentally sensitive area (ESA)] with a 6-foot radius buffer around the trunk of large mature trees that are located within the construction limits. No miscellaneous construction supply and construction equipment shall be stored within the tree protection fence limits.

Footings and base debris removed for concrete walk, playground area, etc., shall be disposed of offsite in a legal manner at no additional costs to the Agency.

All obstructions within project limits shall be removed to a minimum of 12-inches below subgrade.

Soil backfill for holes caused by the removal of the existing structures foundations shall be filled with selected site soils or Class A topsoil recompacted in 6-inch layers to the density of 95-percent relative compaction.

Tree removal shall include grinding stumps and associated roots to the diameter of the trunk at existing grade and to 3-foot depth below existing grade. Grindings shall be removed from this 3-foot hole. The hole shall then be filled with soil and compacted to 95-percent relative compaction.

The cleared area shall be ripped to a depth of 12 inches, except in areas of existing tree roots which generally extend to the drip line of the tree canopy. **SPECIAL CARE SHALL BE TAKEN TO PROTECT EXISTING TREES TO REMAIN FROM DAMAGE.**

*Add the following subsections:*

300-1.1.1 Root Pruning and Tree Trimming.

Tree branches which hang within 13.5 feet above finished roadway grade or within 9 feet above finished sidewalk or parkway grade shall be removed to the branch collar in accordance with the current pruning standards of the International Society of Arboriculture (ISA). The Contractor shall remove additional tree branches, under the direction of the Engineer, in such a manner that the tree will present a balanced appearance. No paint or tree sealant shall be applied to the resulting scars. All pruning shall be done under the supervision of an ISA Certified Arborist in the Contractor's employ.

All the root pruning required to place or replace walks, or other permanent facilities shall be limited to the minimum amount necessary to set forms.

All roots 2 inches and larger shall be cut with sharp tool such as axe or chainsaw. No roots shall be broken off by trenching or other heavy equipment.

No root shall be removed within five (5) diameters of the tree trunk measured at 4 feet, 9 inches above grade without the express written permission of the County. Any such root removed without the County's written permission may create a hazardous condition for which the Contractor shall be liable.

Should the Contractor create a hazardous condition in the sole judgment of the Engineer the Contractor shall remove the tree and replace it with a specimen of the same species and value at the Contractor's expense.

All significant root pruning (3-inch diameter and larger) shall be performed under the direct supervision of an ISA Certified Arborist in the Contractor's employ.

All trees noted on the drawings for tree pruning shall have crown reduction and crown thinning performed in accordance with standards published by the Western Chapter of the International Society of Arboriculture (ISA). All pruning shall be performed by ISA certified tree workers under direct supervision of an ISA certified arborist. The Contractor shall furnish such credentials to the Engineer prior to commencement of any tree work.

300-1.4 Payment.

*Add the following:*

Full compensation for clearing, grubbing, irrigation equipment removal, shrub removal, soil replacement for voids left from roots removal, turf eradication and removal and items not mentioned but are part of clearing and grubbing shall be at the contract bid lump-sum price for clearing, grubbing and removal, and no additional compensation will be made therefor.

Tree removal and disposal shall be paid as indicated on the Bid Schedule item and no additional compensation will be allowed.

300-2 UNCLASSIFIED EXCAVATION

300-2.1 General. Unclassified.

*Replace Subsection 300-2.1 General of the Standard Specifications with the following:*

Unclassified excavation shall consist of all excavation, including site soil, and concrete pavement, walk, and ramp.

300-2.7 Selected Material.

*Replace Subsection 300-2.7 Selected Material of the Standard Specifications with the following:*

Selected materials encountered in the excavations within the project limits that meet the specifications for base material, trench bedding or backfill, topsoil, or other specified materials shall be used as shown on the Plans, in the Specifications, or as directed by the Engineer. Topsoil excavated may be considered only for the purpose of backfilling areas to be planted.

300-2.9 Payment.

*Add the following:*

Payment for all unclassified excavation required as part of the work for “remove and construct”, “construct”, “perform”, “remove and dispose”, and “furnish and install” items, and similar items; shall be paid for as part of the work of that item, and no additional compensation will be allowed.

300-4 UNCLASSIFIED FILL

### 300-4.1 General.

*Add the following:*

The site shall be graded to the limit lines as shown on the drawings with such allowances as may be required for the construction of mow curb, PCC paving, and other site improvements. Tolerance for rough grading is 1/10<sup>th</sup> of a foot, plus or minus, at drainage swales and paved areas. At other areas, appearance shall be the governing factor.

Finish grades shall slope to drain without water pockets or irregularities and shall conform to the intent of all plans and sections, after thorough settlement, and compaction of the soil. Finished grades shall meet all existing or established controls of sidewalks, curbs, and walls and shall be of uniform slope and grade between points of fixed elevations or elevation controls from such point to established grades. Tolerance for finish grading is 1/4 inch, plus or minus.

### 300-4.1 General.

*Replace the second and third paragraphs of Subsection 300-4.1 General of the Standard Specifications with the following:*

Rocks, broken concrete, or other solid materials which are larger than 1 inch in greatest dimension shall not be placed in fill areas that are to be planted.

Clods or hard lumps of earth 1 inch or more in greatest dimension shall be broken up before compacting the material in fill areas to be planted. Fill material containing large rocks, boulders, or hard lumps (such as hardpan or cemented gravel which cannot be broken readily) over 12 inches in greatest dimension shall not be incorporated in the fill. Such materials shall be removed from the site.

Selected material from the site that meets the requirements for Class C topsoil may be used in landscaped areas in the upper 12 inches of fill. (Ref: Sec. 300-2.7) or as make-up fill material underneath hardscape paving.

Make-up fill material in landscaped areas shall be Class A topsoil for the upper 12 inches of fill. (Ref: Sec 308-2)

### 300-4.10 Payment.

*Add the following:*

Full compensation for furnishing all labor, materials, tools and equipment, and doing all the work involved in unclassified fill construction shall be considered as included in the price paid for “remove and construct”, “construct”, “remove and dispose”, “perform” and “furnish and install” items, and similar items ; shall be paid

for as part of that item, and no additional compensation will be allowed.

SECTION 301 – SUBGRADE PREPARATION, TREATED MATERIALS AND PLACEMENT OF BASE MATERIALS

301-1 SUBGRADE PREPARATION

301-1.3 Relative Compaction.

*Replace the first paragraph of Subsection 301-1.3 Relative Compaction of the Standard Specifications with the following:*

When pavement is to be placed directly on subgrade material, the top 6 inches of subgrade material shall be compacted to a relative compaction of 95 percent. When base or subbase material, curb, gutter alley pavement, driveways, or sidewalk are to be placed on the subgrade material, the top 6 inches of such subgrade material shall be compacted to a relative compaction of 90 percent.

After compaction and trimming, the subgrade shall be firm, hard, and unyielding.

301-2 UNTREATED BASE

301-2.4 Measurement and Payment is amended by adding thereto the following paragraphs:

Full Compensation for Crushed Aggregate Base shall be considered to be included with the items requiring the base and shall include but not limited to furnishing all labor, tools, material, equipment, grading and compaction of subgrade, hauling, and incidentals for doing all work involved in construction of this item to the lines and grades shown on the plans, and no additional compensation will be allowed therefore.

*Add new section as follows:*

301-7 DECOMPOSED GRANITE INSTALLATION

301-7.1 Subgrade Preparation. Subgrade shall be firm and smooth, 3 inches below finish grade, and free of rocks and vegetation.

All subdrainage and irrigation piping shall be in place prior to preparing subgrade.

301-7.3 Installation. Spread decomposed granite uniformly over the designated areas.

The final result shall be a minimum 3-inch layer with a smooth surface blended into the site with a clear delineation between turf and decomposed granite.

Payment: Payment for furnish and install decomposed granite shall be at the contract bid unit price per square foot in place and no additional payment will be made therefor.

## SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

### 303-1 CONCRETE STRUCTURES

#### 303-1.1 General.

*Add the following:*

Where rock placement is shown on the drawings, it shall conform to the provisions of Section 303-1.12.

*Add new Section as follow:*

Payment for furnishing and installing stone/rock veneer/facing on statue pedestal and monument sign base shall be considered as included in the payment of such item and no other payment shall be made therefore.

### 303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS

#### 303-5.4 Joints.

##### 303-5.4.1 General.

*Add the following:*

Tooled Joints, Cold Joints, and Expansion Joints shall follow the patterns shown on the Plans. Where no pattern is shown, joint intervals shall be spaced equally, and shall not exceed the width of the walk.

##### 303-5.4.2 Expansion Joints.

*Add the following:*

Expansion joints shall be placed against all walls and structures, and around all penetrations of walk, such as posts, poles, or equipment foundations. In non-reinforced slabs, expansion joints shall be placed at the locations as shown on the plans; notwithstanding a minimum in the longitudinal centerline, and regularly spaced at intervals not exceeding the width of the slab.

### 303-5.6 Curing.

*Replace the first paragraph of Subsection 303-5.6 Curing of the Standard Specifications with the following:*

Immediately after finishing operations for colored stamped concrete are complete, Type 1-D concrete-curing compound shall be applied at a rate of one gallon per 150 square feet.

### 303-5.9 Measurement and Payment.

*Add the following:*

Payment for Construct 4-inch thick natural color PCC walking path and paving with retardant finish surface over compacted subgrade complete per plan shall be at the contract bid unit price per square foot for construction, including expansion joint and joint filler, excavation, hauling, and disposal, steel dowel reinforcement, compaction, subgrade preparation and no other payment shall be made therefor.

Payment for 6-inch thick PCC ramp shall be at the contract unit bid price per square foot in place, including construction joints, joint filler, excavation, hauling, disposal, compaction, steel reinforcement, subgrade preparation, compacted aggregate sub-base (CAB) and shall include all labor, tools, material, transportation, equipment, and incidentals for construction of concrete ramp and no other payment shall be made therefor.

Payment for construct 6-inch PCC mow curb shall be at the contract bid unit price per linear foot for construction, including expansion joint and filler, excavation, hauling, and disposal, steel reinforcement, compaction, subgrade preparation, and no other payment shall be made therefor.

## 303-6 STAMPED CONCRETE

### 303-6.1 General.

*Add the following:*

Color shall be determined by Agency or Engineer and shall be applied by Method B of Subsection 303-7.3 of the Standard Specifications. Color hardener shall be applied evenly to the plastic surface concrete by a dry shake method in accordance with the approved manufacturer's printed instructions. It shall be applied in two applications, wood floated after each, and troweled only after the final floating.

While the concrete is still plastic, the forming tools shall be applied to make the patterned surface. After curing a minimum of specified calendar days, as noted on the manufacturer specifications. Contractor shall pressure clean the concrete to

remove residual dust and excess release agent. After concrete is cleaned, it shall be sealed with clear sealant (non-slip type).

Only the concrete work so indicated on the Plans will receive stamped colored treatment. If any concrete work not indicated for color treatment, any curb and gutter, or any existing concrete which is to remain in place should receive any color treatment, it shall be removed and replaced by the Contractor at the Contractor's expense.

Pattern shall be as specified on the drawings. Refer to the table below for stamped concrete pattern.

Stamped Concrete Pattern:	As specified on the drawings.
Release Agents	As specified on the drawings.

Control joints shall be placed as indicated on the plans. Tooled/scored joints shall be placed as shown on the drawings and/or 10 feet maximum intervals. Control joints shall be placed so as not to disrupt the pattern.

Stamped concrete shall be placed, formed, and cured in conformance with the printed instructions, specifications, and technical bulletins issued by the manufacturer of the color hardener and color wax curing system.

The applicator shall be an experienced stamped concrete specialist. The stamped concrete specialist and a supervisor of proven ability (who can provide at least three examples of high-quality installation) shall be listed on the bid form.

Prior to start of stamped concrete work, Contractor shall submit the following to the Engineer, for approval:

- Three copies of the manufacturer's printed instructions, bulletins, and specifications.
- A 0.6m x 0.6m (2 ft. x 2 ft.) square sample of stamped, finished concrete finish with color for the Engineer's approval prior to the start stamped concrete work.

The finished concrete sample shall reflect the personnel, procedures, and materials to be used, and shall match the color, pattern, and finish of the stamped concrete to be installed by the Contractor.

The stamped concrete shall be installed in the locations shown on the Plans, and shall be subject to approval by the Engineer. Work not conforming to color(s), pattern, texture, appearance, or otherwise not complying with the Specifications shall be removed and replaced at no additional cost to the Agency.



### 303-6.5 Payment.

*Add the following:*

Payment for 6-inch thick integral color, stamped PCC paving shall be at the contract unit bid price per square foot in place, including sealer, antiquing agents, colored-release agents, construction joints, joint filler, excavation, hauling, disposal, compaction, steel reinforcement, subgrade preparation, and shall include all labor, tools, material, transportation, equipment, and incidentals for construction of stamped concrete and no other payment shall be made therefor.

## SECTION 304 - METAL FABRICATION AND CONSTRUCTION

*Add new section as follows:*

### 304-6 TUBULAR GALVANIZED STEEL HANDRAIL AND PREFABRICATED ALUMINUM GARDEN FENCE

#### 304-6.1 Handrail and Fence

304-6.1.1 General. The materials for tubular steel handrail shall conform to the requirements of Section 206-7.

The Contractor shall submit 3 copies of shop drawings to the Engineer showing the details and dimensions of all ornamental steel fencing and gate.

304-6.1.2 Fabrication. Welding shall conform to the requirements of the "Structural Welding Code" AWS D1.1 for steel. All exposed welds shall be ground flush with adjacent surfaces.

Tubular steel handrail units shall be galvanized steel as specified on the drawings.

304-6.1.3 Installation. The fencing shall be erected in accordance with the Plans.

The fencing shall be carefully erected true to line and grade. Posts and balusters shall be vertical with the deviation from the vertical for the full height of the panel not exceeding 1/8 inch.

After erecting the fence and handrail, all abrasions, welds, or exposed metal shall be repaired in accordance with Section 210-3.5.2.

Top and bottom rail shall run parallel to grade. No stepping of panels will be allowed.

All handrails shall be painted following erection. (Reference Sections 210 and 310, particularly 210-1.5, 310-3 and 310-5.3.)

304-6.1.4 Measurement and Payment. Payment for fabrication and installation of tubular galvanized steel handrail shall be at the contract bid unit lump-sum price for installing handrail, as shown on the drawings. Full compensation shall include furnishing, painting, and installing handrail and all work incidental thereto.

Payment for prefabricated aluminum garden fence shall be at the contract bid unit lump-sum price for installing fence, as shown on the drawings. Full compensation shall include furnishing, painting, and installing fence and all work incidental thereto.

## SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

### 306-3 TRENCH EXCAVATION

306-3.1 General. Add the following:

Where conduit is to be placed within the drip line of existing trees, the following conditions apply:

- A. When the trench excavation is outside five (5) diameters of the tree trunk measured at 4 feet, 9 inches above grade, the provisions of Section 300-1.1 apply
- B. When the trench excavation is to encroach within five (5) diameters of the tree trunk measured at 4 feet, 9 inches above grade, the excavation in the vicinity of tree roots shall be by hand, air jet, or water jet to expose affected roots. Conduit shall be placed beneath the structural tree roots (all roots 2-inches or larger). No structural root shall be cut without the express written permission of the Engineer. Any such cutting shall comply with the provisions of Section 300-1.1.

## SECTION 310 - PAINTING

*Add new sections as follows:*

### 310-6 PAINTING ORNAMENTAL FENCING AND HANDRAIL

310-6.1 General. Handrail shall be painted following erection. All surfaces to be painted shall be clean of foreign material. Galvanized surfaces shall be treated as required by Sections 210-3, 310-3, and 310-5.3.

Prefabricated ornamental garden fence shall received touch-up paint after assembling and field installation. Touch-up paint shall be applied at the fence

member connection points and shall in conformance with manufacturer's paint specifications and application instructions.

## 310-8 ANTI-GRAFFITI COATING

310-8.1 General. All vertical and horizontal surfaces such as, but not limited to, i.e., monument sign, light poles, trash receptacles and picnic tables shall be painted following erection.

Coating on light poles shall be applied from finish surface to 15 feet above finish surface.

310-8.1.1 Surface Preparation. Surfaces to be coated shall be clean of dirt, grime, efflorescence, lime runs, form oils and release agents, grease, mud, excess mortar, mold and mildew, and any other deleterious substance.

310-8.1.2 Coverage. Consult the manufacturer's literature and the manufacturer's representative to determine coverage rates for the various surfaces to be coated.

310-8.1.3 Warranty Protection.

- a. A site visit must be conducted by an employee or agent of the anti-graffiti coating manufacturer. Notify the Engineer 48-hours prior to the scheduled site visit.
- b. A warranty application must be completed fully by the applicator, and a warranty issued by the anti-graffiti coating manufacturer in favor of the County of Glenn.

310-8.1.4 Application. Application shall be in strict accordance with the manufacturer's current printed directions and instructions by the manufacturer's representative.

Allow coatings to dry and become clear before applying subsequent coats. Achieve a uniform pinhole free, continuous film.

310-8.1.5 Cleanup. Remove discarded coating materials, rubbish, cans, and rags at end of each work day. Protect work of other trades.

310-8.1.6 Certification. Provide documentation of quantities of each product obtained for the work performed. This documentation is required for payment and warranty purposes.

310-8.1.7 Submittals. Contractor shall submit 3 copies of manufacturer's literature for the paint system proposed for the Engineer's review in accordance with Section 3-8.

310-8-2 Payment. Payment for applying anti-graffiti coating on all vertical surfaces described in Section 310-8.1 shall be included in the payment for the item for which anti-graffiti coating is required.

*Add new Section 312 as follows:*

## SECTION 312 - SITE FURNISHINGS

### 312-1 GENERAL

All site furnishings shall be inspected by the Contractor at the time of delivery for conformance to the Plans and submittals. Damaged items shall be returned and will not be accepted for installation.

Installation shall conform to the manufacturer's printed instructions, the drawings, and the Engineer's instructions.

All site furnishings installed in concrete footings shall be installed prior to concrete flatwork, if required.

312-1.2 Payment. Payment for site furnishings shall be at the contract bid unit price as indicated in the Bid Schedule and shall be full compensation for installing the item in place.

### 312-2 INSTALLATION OF MONUMENT SIGN

316-2.1 General. Construction of monument sign and statue on decorative pedestal shall be as called out on the Plans. The Contractor shall be responsible for accurate location of foundations and layout of the work including verification of correct facing direction of monument sign and statue.

312-2.2 Payment. Payment for monument sign and statue respectively shall be at the contract bid lump sum price as indicated on the Bid Schedule and shall include all costs for furnishing materials; engineering drawings and calculations; and installation of the monument sign and statue on concrete foundations/footings.

**PART 4**  
**EXISTING IMPROVEMENTS**

SECTION 400 – PROTECTION AND RESTORATION

*Add the following subsection:*

400-1.2 Preservation of Property

400-1.2.1 Repair / Modification of Existing Turf and Planting Area

(a) All existing lawn and landscape areas disturbed by the Contractor as part of or as a result of the work shall be prepared and resodded and/or replanted in kind, except as otherwise designated in the Plans. Existing irrigation systems shall be repaired and restored to operating condition to the satisfaction of the Engineer.

(b) Sprinklers and Improvements. The Contractor shall coordinate work with the County's representative. The Contractor shall test and document the condition of existing sprinkler/irrigation system, where indicated as "protected in place" or "to remain" before beginning required removals or excavation.

Contractor shall field verify with Engineer exact location of all irrigation components such as, but not limited to, valves, sprinkler heads, piping, etc., prior to start of construction. Unless otherwise indicated on plans, all irrigation components shall be protected in place. However, where there are conflicts with new sidewalks, the water supply lines, valves, and sprinkler heads shall be modified and adjusted to grade or relocated, as necessary. The reinstallation of irrigation components shall be performed in the same manner in which they were originally installed. The Contractor shall restore private irrigation system to documented conditions after completing adjacent work.

(See Section 306-3 for Trench Excavation requirements).

SECTION 401 – REMOVAL

401-3.2 Concrete Curb, Walk, Gutters, Cross Gutters, Curb Ramps, Driveway and Alley Intersections

*The following is hereby added to Subsection 401-3.2*

Concrete Curb, Walk, Gutter, Cross Gutters, Driveways, Alley Intersections and Access Ramps. Concrete shall be removed to neatly sawed edges with saw cuts made to a full depth of pavement. Concrete sidewalk, or driveway to be removed shall be neatly

sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. No section to be replaced shall be smaller than 30 inches in either length or width. If the saw cut in sidewalk, access ramp, or driveway would fall within 30 inches of a construction joint, expansion joint, or edge, the concrete shall be removed to the joint or edge, except that where the saw cut would fall within 12 inches of a score mark, the saw cut shall be made in and along the score mark. Curb and gutter shall be sawed to a depth of 1½-inches on a neat line at right angles to the curb face.

*Add following subsection:*

402-7 Adjustment of Water Valve Box and Utility Box Frame and Cover.

Water valve box and utility box frame and cover (shown or not shown on plans) within the area to be paved or graded shall be set to finish grade by the Contractor as required by the Plans and Specifications. In the case of Portland Cement Concrete paved area, box frame and cover shall be set to finish grade by the Contractor before paving.

402-7.1 Payment. Payment for adjusting water valve box and utility box frame and cover shall be distributed equally among various items in the Bid Schedule shall include costs for adjusting box frame and lid, adjust box orientation to accommodate mow curb construction, including replacement in kind of any damaged material due to construction.

## **PART 8**

### **LANDSCAPING AND IRRIGATION**

#### **SECTION 800 - LANDSCAPE AND IRRIGATION MATERIALS**

##### **800-1 LANDSCAPE MATERIALS**

###### **800-1.1 Topsoil.**

Import topsoil shall be Class A or C for planting areas and make-up fills.

All other requirements shall be as specified in Section 212-1.1.2.

Class A topsoil shall be tested for agricultural suitability and infiltration rates. The test results from samples taken at the source shall be delivered to the Engineer at least 10-working days prior to anticipated delivery date to the site. Should the proposed source material be unsatisfactory, the Contractor shall locate a suitable material, and shall pay all additional costs for testing.

Class C topsoil shall be tested for agricultural suitability and infiltration rates. Three tests at three different locations shall be performed. Exact locations of tests shall be field verified and approved by Engineer.

###### **800-1.1.2 Class "A" Topsoil**

Add the following:

Soil for backfill and make-up fill shall be Class A Topsoil with the following restrictions: Gradation limits shall be 85 percent through 95 percent sand, maximum 10 percent silt, maximum 5 percent clay. The permeability rate shall be not less than 1½" per hour and no greater than 3" per hour.

##### **800-1.2 Soils Fertilizing and Conditioning Materials**

General.

Fertilizing and soil conditioning shall comply with the applicable requirements of the State Food and Agricultural Code. All materials shall be packaged first grade, commercial quality products identified as to source, type of material, weight, and manufacturer's guaranteed analysis. Fertilizing and soil conditioning material shall not contain toxic ingredients or fillers in quantities harmful to human life, animals, or plants. The contractor shall furnish a Certificate of Compliance

stating that the material substantially meets the specifications. Exact fertilizing and conditioning materials and the required composition and quantities shall be determined by agronomic soils test provided by the Contractor at the completion of rough grading per the requirements of the Model Water Efficient Landscape Ordinance of the State of California.

Composted organic humus shall be tested by the soils testing laboratory prior to being used.

Nitrogen stabilized sawdust shall be derived from redwood or fir and shall be granular in nature, stabilized with nitrogen and shall have a minimum organic content of 90% by weight, particle size with 95 to 100% passing 2.33 mm standard sieve, 0.5% nitrogen, 1.75 salinity, iron content minimum 0.08% dilute acid soluble Fe (dry weight), ash 0 to 6% (dry weight), pH of 5.5 to 6.0.

Sand shall be fine, clean and natural, free from deleterious material, weed seed, clay balls, or rock with minimum 95% passing a No.4 sieve and maximum of 10% passing a No.100 sieve.

Gypsum shall be agricultural grade with 90% minimum calcium sulfate.

Fertilizer shall be commercially mixed and packaged pelleted or granular form N-P-K blend with micronutrients as recommended by an approved soils report.

Dolomite lime shall be agricultural grade with 35% minimum magnesium carbonate and 49% minimum calcium carbonate with 100% passing a No. 65 sieve.

#### 800-1.2.3 Commercial Fertilizer.

Commercial fertilizer shall be 12-12-12 NPK.

Planting tablets shall be tightly compressed, long-lasting, slow-release fertilizer tablets weighing 21 grams, with a potential acidity of not more than 5 percent by weight and having an analysis of 20-10-5.

Humate shall be TRI-C humate or premium humate available from TRI-C Enterprises. Contact 1-800-927-3311  
<https://www.tri-corganics.com/contact>

#### 800-1.2.4 Organic Soil Amendments.



Organic Soil Amendments shall be per the agronomic soils report, provided and paid for by the Contractor at the completion of grading per the requirements of the Model Water Efficient Landscape Ordinance of the State of California.

Organic soil amendment shall be Type 1.

The organic amendment shall be a high quality, composed or natural organic with an  $EC < 2.0 \text{ dSm}^{-1}$ . The amendments shall be composted to a C:N ratio of 12:1 maximally, or additional nitrogen provided during incorporation. The compost shall be sampled and analyzed by a lab before being incorporated.

#### 800-1.2.5 Mulch.

Mulch shall be as specified on the plans.

*Add new section as follows:*

#### 800-1.2.6 Soil Conditioners.

Iron Sulfate. Iron sulfate shall be ferric sulfate or ferrous sulfate in pelleted or granular form, containing not less than 18.5 percent iron expressed as metallic iron and shall be registered as an agricultural mineral with the State Department of Agriculture in compliance with Article 2, "Fertilizing Materials," Section 1030 of the Agricultural Code.

#### 800-1.4 Plants.

##### 800-1.4.1 General. Add:

Varieties shall be as shown on the drawings.

All quantities shall be verified by an actual count on the drawings.

Plants, including trees, shrubs, and ground covers, shall have been grown in nurseries inspected by the State Department of Agriculture.

Inspection and approval of plants is required. Engineer may reject entire lot of plants represented by defective samples. Plants not approved are to be removed from site immediately and replaced with suitable plants. All plants will be inspected on site of work prior to installation.

All planting material including trees, shrubs, groundcovers and vines shall be inspected and approved by the engineer, via photo submittals, prior to

delivery to the site. Photo submittal shall include nursery/supplier information and date. Any material delivered to the site without prior approval is subjected for rejection. Photo submittals shall be sent to the engineer a minimum of 72 hours prior to shipment of material. Submittals should include some type of scale reference in photo (e.g. person, measuring tape, etc.). Trees shall be noted with height (from finish grade in container) and canopy head size. Engineer shall be notified of scheduled nursery delivery times a minimum of 24 hours prior to shipment. Refer to planting specifications for additional requirements regarding quality of nursery stocks.

#### 800-1.4.2 Trees. Add:

- (a) Contractor Furnished Trees: All trees shall be selected by the Contractor and inspected by the Engineer. All trees of 24-inch box size or larger shall be inspected at the nursery. Inspections at no cost to the Contractor will be limited to two nurseries, all within a 30-mile radius of the site of work. Additional inspections and inspections out of the area will be charged to the Contractor at the Engineer's standard billing rate in effect at the date of bid, plus mileage costs, and will be deducted from payments due to the Contractor.
- (b) All trees of 24-inch size or larger shall be guaranteed for 1 year. Guarantee period shall start on the date the Contractor is relieved of landscape maintenance responsibility.

800-1.4.5 Sod shall be as specified on the drawings.

#### 800-1.5 Headers, Stakes and Ties.

800-1.5.3 Tree Stakes. Stakes shall be round, 10-feet long, conically pointed at one end, minimum 2-inch diameter. Stake material shall be Lodgepole pine, pressure treated with wood preservative.

800-1.5.4 Tree Ties. Tree ties shall be V.I.T. rubber cinch ties. Wire devices shall not be used.

*Add new section as follows:*

#### Section 800-1.7 Landscape Materials.

800-1.7.1 Filter Cloth. Filter cloth shall be a geo-textile fabric, Type 90N as specified in Table 213-2.2 (A), or TenCate Mirafi S-Series, Trevira Spunbond 1115, or equal.

800-1.7.4 Samples. Within 15 calendar days of award of contract, submit one 24-inch by 24-inch sample of each item with joining strip or seam and two copies of manufacturer's technical data for approval.

**800-2 IRRIGATION SYSTEM MATERIALS**

General. Within 15 days after award of contract, submit for review 2 copies of a complete materials list, including manufacturer's name and number, covering all material required under this contract, together with 2 copies of descriptive literature on all items listed. Commence no irrigation system construction prior to receipt of Engineer's determination.

<b>Item Description</b>	<b>Item Description</b>
Irrigation controller assembly	Irrigation controller enclosure
Shut-off gate valve (S.O.V.)	S.O.V. valve box, lid and sleeve/extension
Flush valve	Rain sensor, wire and enclosure
Plastic pipe, pipe fittings, swivel joints	Flush valve box and lid
Metal pipe, fittings	Primer and solvent for plastic pipe
Main filter and element	Pipe anchors
Remote control valves (R.C.V.)	Main filter valve box and lid
Identification wire and tape	R.C.V. valve box and lid
Quick coupling valves (Q.C.V)	Wire and connectors
System Root Zone Watering	Q.C.V. valve box and lid
Drip emitter, tubing, connectors, boxes, indicators	Control wire conduit and pull boxes
Hose swivels	Valve operating wrenches
Quick couplers	Drip filter, relief valve, and drain valve
Irrigation control wire and connectors	
Backflow preventer	Backflow enclosure

800-2.1 Pipe and Fittings. Plastic pipe ¾ inch through 1½ inches shall be PVC 1120, Schedule 40 solvent welded pipe.

Plastic pipe 2 inches and over shall be PVC 1120, Class 315 solvent welded pipe.

All pipe sleeving shall be PVC 1120, Schedule 40 solvent welded pipe.

Swing joints shall be as detailed on the drawings. Swing joints and all fittings shall be same pipe size as sprinkler body inlet. Pressure pipe risers and fittings shall be PVC Schedule 80.

Risers and fittings for backflow prevention device shall be red brass, standard weight.

800-2.1.3 Plastic Pipe and Fittings. All plastic pipe shall be new normal impact rigid polyvinyl chloride (PVC) 1220 or 1120 pipe extruded from 100 percent virgin materials. All pipe O.D. sizing shall be done in conformance with AWWA iron pipe sizing (I.P.S.). All pipes shall be National Sanitation Foundation approved.

Pipe shall be homogenous throughout, free from visible cracks, holes, blisters, dents, wrinkles, die and heat marks, and foreign materials.

Continuously and permanently mark pipe with manufacturer's name or trademark, kind and size pipe, material, manufacturer's lot number, schedule, or Class and NSF seal of approval.

The physical specifications of the Society of Plastic Industries for each type of pipe used shall be deemed and construed as a part of this Specification.

Pipe dating shall be done in conjunction with records held by the manufacturer for 2 years, covering quality control tests, raw material batch numbers, and any other information required by the manufacturer.

Nominal pipe sizes in I.P.S. and Metric shall be as shown in the table below:

<b>Iron Pipe Size (I.P.S.)</b>	<b>Metric Standard Diameter Nominal (D.N.)</b>
1/2"	15 mm
3/4"	20 mm
1"	25 mm

<b>Iron Pipe Size (I.P.S.)</b>	<b>Metric Standard Diameter Nominal (D.N.)</b>
1¼"	32 mm
1½"	40 mm
2"	50 mm
2½"	65 mm
3"	75 mm
4"	100 mm
6"	150 mm

Solvent weld fittings shall be PVC manufacture, heavy wall and of the IPS solvent welded types, Schedule 40. Fittings containing threads shall be Schedule 80.

Primer and solvent cement shall be of the type and make approved by the pipe manufacturer for use on its pipe. Unless noted otherwise by manufacturer, primer shall meet ASTM F-656, and cement shall meet ASTM D-2564.

#### 800-2.2 Valves and Valve Boxes.

800-2.2.2 Shut-Off Valves (S.O.V.) Shut-off valves shall be as specified on the drawings.

800-2.2.4 Remote Control Valves. Remote control valves shall be as specified on the drawings.

800-2.2.6 Quick Coupling Valves and Assemblies. Quick coupling valves shall be as specified on the drawings.

#### 800-2.2.7 Valve Boxes.

1. Gate valves. Gate valve box shall be as specified on the drawings.
2. Remote control valves. Valve box shall be as specified on the drawings.

800-2.2.8 Remote Master Valve. Remote control water valve shall be as specified on the drawings.

800-2.3 Backflow Preventer Assembly. Backflow prevention device shall be of the size and type as indicated on the drawings.

#### 800-2.3.1 Y-Strainer Equipment.

Y-Strainer shall be a brass construction valve, and as specified on the drawings.

Locate Y-strainer in separate valve box, downstream from backflow preventer.

800-2.4 Irrigation Heads. Irrigation heads shall be the type(s) called out on the drawings.

See Section 800-2.5 for drip and subsurface irrigation equipment.

*Add new sections:*

#### 800-2.5 Drip and Subsurface Irrigation Equipment.

Drip emitter line and subsurface irrigation equipment shall be as specified on the drawings.

Dripline spacing between row shall be as specified on the drawings.

Dripline installation in sandy or clay soil area shall follow manufacturer's installation guidelines.

Operation indicator and flush valve shall be as specified on the drawings.

Drip emitter line, fittings, accessories, appurtenances shall be as specified on the plans. All drip and subsurface equipment installed shall be supplied by the same manufacturer regardless and/or as specified on the drawings.

### 800-3 ELECTRICAL MATERIALS

800-3.1 General. All wiring and pull box details shall conform to drawing details, these Specifications and as follows:

- (a) National Electrical Code.
- (b) Local Codes and Ordinances.
- (c) Recommendations as printed by the respective supplier.
- (d) All wiring shall be continuous, soldered and encapsulated in epoxy-filled Rainbird "DB Series Wire Connector" containers or 3M "DBR/Y" Direct Buy Splice Kit, at connections to remote control valves.

It shall be the Contractor's responsibility to call out any conflict between the above-listed recommendations.

800-3.2 Conduit and Conductors.

800-3.2.1 Conduit. The first paragraph of Subsection 800-3.2.1 of the Standard Specifications is hereby deleted and replaced with the following:

Conduit shall be PVC 1120, Schedule 40 solvent welded pipe.

Conduit shall be a minimum size as shown in the table below:

<b>Conduit Size</b>	<b>Maximum Number of Wires (#14 AWG)</b>
15mm (1/2")	2
20mm (3/4")	4
25mm (1")	6
32mm (1 1/4")	10
40mm (1 1/2")	14
50mm (2")	25

800-3.2.2 Conductors. The second paragraph of Subsection 800-3.2.2 of the Standard Specifications is hereby deleted and replaced with the following:

**LOW VOLTAGE CONDUCTORS**

Pilot lines and common wire connecting remote control valves to automatic controller shall be direct burial, U.F. type with approved 4/64-inch thick waterproof coating, 600 volt, 75 degrees centigrade, copper single-strand wire, U.L. approved.

All "pilot" wires shall be black color. All "common" wires shall be white color.

800-3.3 Controller Unit. Automatic controller shall be as specified on the drawings.

*Add new subsection as follows:*

800-3.4 Supplemental Irrigation Control Systems.

Supplemental irrigation control systems include rain shut-off device, but are not limited to:

Master valve module and relay
Flow sensor, valve box, flow sensor wires and relays
Rain sensor assembly
Communication module and weather sensing technology

*Add the following subsections:*

#### 800-4 ENCLOSURES

800-4.1 General. Materials for enclosures shall conform to Section 206 and fabrication shall conform to Section 304 of the Standard Specifications.

800-4.2 Backflow Device Enclosure. Enclosure shall be as specified on the drawings.

Enclosure shall have sufficient space to house the specific backflow device complete with test gauges.

### SECTION 801 - LANDSCAPE AND IRRIGATION INSTALLATION

#### 801-1 GENERAL

All existing lawn and landscape areas disturbed by the Contractor as part of or as a result of the work shall be prepared and re-sodded and/or replanted in kind, except as otherwise designated in the Plans. Existing irrigation systems shall be repaired and restored to operating condition to the satisfaction of the Engineer.

Contractor shall field verify with Engineer exact location of all irrigation components such as, but not limited to, valves, sprinkler heads, piping, etc., prior to start of construction. All irrigation components shall be protected in place unless otherwise noted on plans. However, where there are conflicts with new sidewalks, the water supply lines, valves, and sprinkler heads shall be modified and adjusted to grade or relocated, as necessary. The reinstallation of irrigation components shall be performed in the same manner in which they were originally installed.

Contractor shall contact the Glenn County General Services, Contact Person: Ricardo Valdez (530) 934-6545 [facilities2@countyofglenn.net](mailto:facilities2@countyofglenn.net) and coordinate work to be performed prior to start of construction.

#### 801-2 EARTHWORK AND TOPSOIL PLACEMENT

801-2.3 Finish Grading, Topsoil Preparation and Conditioning



801-2.3.1 General.

*Add the following:*

After Class A and/or C topsoil have been placed and prior to amendment, the topsoil shall be sampled and tested for agricultural suitability and infiltration rates by the Contractor to assure compliance with the Specifications and approved testing source. Supplemental tests may be made to assure compliance with amendment and fertilization specifications. All costs associated with testing shall be borne by the Contractor.

801-2.3.2 Fertilizing and Conditioning Procedures. Add the following:

The topsoil be amended as recommended by the testing laboratory. Should the amendment recommendations furnished by the laboratory exceed those required by the bidding documents, the laboratory recommendations shall be applied at no additional cost to the Agency.

Incorporate into the top 6” of the soil, using a mechanical tiller, tilling in two separate directions the following materials, in all areas to be planted:

<b>Material</b>	<b>Rate per 100m<sup>2</sup> (1,076 square feet)</b>
Type I Amendment	2.5 m <sup>3</sup> (3 cubic yards)
Commercial Fertilizer	5 Kg (10 pounds)
Agricultural Gypsum	45 Kg (100 pounds)

801-4 PLANTING

801-4.1 General.

*Add the following:*

801-4.1.1 The Contractor is responsible to schedule tree deliveries. Daily deliveries shall not exceed the Contractor’s capability to place delivered trees on site unless the Contractor has provided adequate off-site storage space. All charges for extra handling shall be borne by the Contractor.

The Contractor shall provide off-loading and placing equipment of adequate capacity to safely handle the furnished trees.

801-4.3 Layout and Plant Location. Delete the first paragraph and replace with the following:

“The Contractor shall layout all shrubs and groundcovers and stake locations of trees for the Engineer's approval prior to planting.”

801-4.5 Tree and Shrub Planting. Delete the fourth paragraph of Subsection 801-4.5 of the Standard Specifications and replace it with the following:

All planting holes, unless otherwise specified in soils report, shall be backfilled with a prepared backfill mix consisting of the following:

Material	Rate per cubic yard
Topsoil	1.0 CY
Soil Amendment	0.25 CY
Iron Sulfate	2 lbs.
Commercial Fertilizer	1 lb.

Insert planting tablets in the manner and of the number specified by the manufacturer in its printed instructions.

801-4.6 Planting, Staking and Guying. Tree staking shall be as shown on the drawings.

801-4.8.3 Sod.

*Add the following:*

Grade smooth all surfaces to be sodded. Soil surface should be  $\frac{3}{4}$ -inch below adjacent walks after settling. Roll lightly and fill in all soil depressions.

Sod shall be installed and maintained per manufacture’s written instructions.

Soil shall be level, smooth, and moist before sodding.

*Add the following:*

801-4.8.5 Aeration. All existing turf areas shall be aerated by removing  $\frac{1}{2}$ -inch diameter by 3-inch deep cores at not more than 6-inch spacings with an aerator machine. Cores shall be removed in an approved manner after completion of aeration. In addition, the tops of all mound and localized compacted dry spots shall again be aerated as necessary.

801-4.10 Mulch.

801-4.10.1 Installation. Following acceptance of plant material installation, apply even layer of mulch, 3-inches thick, over all areas shown as planting areas on the Plans. The mulch blanket inside watering basins shall be 3 inches thick. Taper thickness of mulch to meet pavement ½” minimum below the finished surface of pavement. Keep mulch 6 inches away from tree and shrub root crown.

## 801-5 IRRIGATION SYSTEM INSTALLATION

### 801-5.1 General.

#### (a) Record Drawings.

The contractor shall provide and keep up to date at all times, a complete set of print record drawings (“As-Built” Drawings), which shall be corrected daily and show every change from the original Plans and Specifications and the exact installed locations, sizes and kinds of equipment. Prints for this purpose may be obtained from the Engineer at the Contractor’s cost. “As Built” Drawings shall be kept on site and shall be used only as a record set.

“As Built” Drawings shall be full size drawings.

“As-Built” Drawings shall also serve a work progress sheets and shall be the basis for measurement and payment for work completed. "As-Built" Drawings shall be available at all times for observation and shall be kept in a location easily accessible to the County's Authorized Representative. In the event that the "As-Built" progress sheets are not available for review, or not current at the time of any site visit by the Owner's Authorized Representative, it will be assumed that no work has been completed and the Contractor will be assessed the cost of that site visit at the current billing rate of the Owner's Authorized Representative. No other site observations shall take place without prior payment of this assessment.

The Contractor shall make neat and legible notations on the "As-Built" Drawing progress sheets daily as the work proceeds, showing the work as actually installed. For example, should a piece of equipment be installed in a location that does not match the Drawings, the Contractor must indicate that equipment has been relocated in a graphic manner so as to match the original symbols as indicated in the irrigation legend. The relocated equipment and dimensions will then be transferred to the original "As-Built" Drawings at the proper time.

Before the date of the Final Walk-Through, the Contractor shall transfer all information from the "As-Built" Drawing progress sheets to contact Mylar plans procured from the County's Authorized Representative at the Contractor's cost. Drafting shall be done with waterproof technical pen ink

and applied to the contact Mylar by technical drafting pens made expressly for use on Mylar surfaces. Documenting the "As-Built" Drawings in AutoCAD, Release 2016 (or earlier release compatible with 2016) format is allowed in lieu of ink and Mylar drawings. Dimensions shall be documented so as to be easily readable even on the final Irrigation Controller Charts. Mylar computer plots of the "As-Built" Drawings shall be submitted to the County's Authorized Representative for approval prior to the making of the Irrigation Controller Charts.

The Contractor shall dimension from two permanent points of reference, building corners, sidewalk, or road intersections, etc., the location of the following items:

- a. Connection to existing water lines.
- b. Gate and ball valves.
- c. Routing of sprinkler pressure lines (dimension max. 100' along routing).
- d. Sprinkler control valves.
- e. Routing of control wiring.
- f. Backflow prevention assembly.
- g. Master valve, flow sensor and sensor signal cable.
- h. Quick coupling valves.
- i. Control wire conduit and wire splice boxes.
- j. Other related equipment as directed by the County's Authorized Representative.

On or before the date of the Final Walk-Through, the Contractor shall deliver the corrected and completed Mylar "As-Built" Drawings to the Owner's Authorized Representative. Delivery of the "As-Built" Drawings will not relieve the Contractor of the responsibility of furnishing required information that may have been omitted from the "As-Built" Drawings.

(b) Irrigation Controller Charts.

"As-Built" Drawings shall be approved by the County's Authorized Representative before Irrigation Controller Charts are prepared.

Provide two (2) Irrigation Controller Charts for each irrigation controller supplied.

Each Irrigation Controller Chart shall show the area controlled by that automatic irrigation controller and shall be the maximum size that fits through the irrigation controller door will allow.

The Irrigation Controller Chart is to be a reduced "As-Built" Drawing of the irrigation system. In the event that the Irrigation Controller Chart is not

legible when the chart is reduced, the text on the "As-Built" Drawing may be enlarged to a size that will be readable when reduced.

The Irrigation Controller Chart shall be a monochromatic Xerox copy on #20 bond with each valve station represented by a different color.

When completed, hermetically seal the Irrigation Controller Chart between two pieces of 7 mil. plastic laminate.

Irrigation Controller Charts shall be completed and approved by the County's Authorized Representative prior to the Final Walk-Through.

801-5.1.2 Items to be Furnished by Contractor. Provide the following tools as a part of this contract:

- (a) Two sets of keys for each automatic controller cabinet.
- (b) Two sets of keys for lock on each controller enclosures.
- (c) Five couplers for quick coupler valves; each coupler shall be equipped with 3/4" diameter by 12" tall bronze hose bib, bent-nose type, with handwheel.
- (d) Five loose keys for quick coupler valves.
- (e) Two special wrenches suitable for operating each type of shut-off valve installed under this contract.
- (f) Two tools for disassembly and assembly or adjustment of each type equipment used in this installation requiring such special tools.
- (g) Five valve box keys for lock-lid valve boxes used in this installation.
- (h) Two sets of operating instructions and a parts list as printed by each manufacturer of each type equipment included in this contract; refer to "Materials" section of the Specifications and legend on drawings.
- (i) One specified padlock for each controller enclosure, as approved by the County.

#### 801-5.1.3 Guarantees.

A letter guarantee from each manufacturer shall be submitted to the Agency guaranteeing materials for a period of 1 year against material defects and workmanship. In cases where longer guarantees are required by these Specifications, such guarantees are separate and distinct from the Contractor's

general guarantee.

The guarantee for the irrigation system shall be in accordance with the attached form.

One copy of the Guarantee form shall be included in the Operations and Maintenance Manual.

The Guarantee form shall be re-typed onto the Contractor's letterhead and contain the following information:

*GUARANTEE FOR SPRINKLER IRRIGATION SYSTEM*

*We hereby guarantee that the sprinkler irrigation system we have furnished and installed is free from defects in materials and workmanship. And the work has been completed in accordance with the Drawings and Specifications, except for ordinary wear and tear and unusual abuse.*

*We agree to repair or replace any defects in material or workmanship, which may develop during the period of 1 year from the date of Final Acceptance by the County, and agree to repair or replace damage resulting from the repairing or replacing of such defects at no additional cost to the County.*

*We shall make such repairs or replacements within a reasonable time, as determined by the County, after receipt of written notice. In the event of our failure to make such repairs or replacements within a reasonable time after receipt of written notice from the County, we authorize the County to proceed to have said repairs or replacements made at our expense and we will pay the costs and charges therefore upon demand.*

*PROJECT:*

*LOCATION:*

*SIGNED:*

*ADDRESS:*

*PHONE:*

*DATE OF ACCEPTANCE:*

801-5.1.4 Utilities.

- a) Water Connection. Contractor shall arrange water service with the serving utility, if required.

- b) Electric Connection. Contractor shall arrange electric service with the serving utility.
- c) The Agency shall prepare all applications for services, pay any required application and/or service fees, and shall pay for the water, electricity, and telephone services required for irrigation and landscape only, as shown on the drawings.
- d) Contractor shall notify the Engineer 14 calendar days minimum prior to the anticipated date of service connection.

#### 801-5.2 Irrigation Pipeline Installation.

801-5.2.5 Trench Backfill in Roadways and Parking Areas. Section 801-5.2.5 is hereby added to Section 801 of the Standard Specifications as follows:

1. All trenches for pipeline and electrical conduit under roadways shall be backfilled with a portland cement concrete treated slurry conforming to Subsection 800-1.1.2. Class Use Table for Trench Backfill Slurry. Sand bedding material shall extend at least 6 inches above the pipe or conduit.
2. Paving for trench cover shall meet the pavement requirements for this project and shall be at least the thickness of adjacent undisturbed paving plus 1-inch, thoroughly compacted in place, and finished to a neat continuous surface.

#### 801-5.4 Installation of Valves, Valve Boxes, and Special Equipment.

*Add the following:*

Pull boxes for control wires that are set in pavement shall be flush with the finish surface.

Pull boxes for control wires, valve boxes, etc., shall be offset from and parallel to walk.

#### 801-5.5 Automatic Control System Installation

The Automatic Irrigation Controller Assemblies shall include, but not limited to the following:

- Wal mounted stand-alone controller enclosure
- Automatic Irrigation Controller

- Sensor wires and relays
- Flow sensor, valve box, flow sensor wires and relays
- Master valve module and relay
- Wireless Rain/Freeze shut-off device

Automatic Irrigation Controller Assemblies shall include supplemental irrigation control systems.

Supplemental irrigation control systems equipment shall include furnishing and installing the specified equipment in conformance with the manufacturer's written instructions and specifications, including communications equipment, sensors, wire, valve boxes, special connectors, terminal boards, and any other equipment required to provide a complete operating system.

#### 801-5.7 Flushing and Testing.

801-5.7.1 General. The text of Subsection 801-5.7.1 of the Standard Specifications is hereby deleted and replaced with the following:

Flush Main Lines. Flushing of the lines will be done before quick coupling valves and remote control valves are in place. All open ends shall be piped (temporarily) to exhaust flushing water up and out of the trenches. No water will be permitted to fall into the trench. Flushing procedure will be to first open the ports nearest the source, then recap and move progressively toward the end of the line with only one open port flushing at any one time.

801-5.7.2 Pipeline Pressure Tests. The text of Subsection 801-5.7.2 of the Standard Specifications is hereby deleted and replaced with the following:

1. Main Lines: Pressure tests on main lines shall be made after lines have been flushed and after control valves and quick coupling valves are set in place. Close all control valves by hand. Pipes shall be center-loaded leaving all fittings exposed. Contractor shall furnish force pump and pressure gauges necessary to complete pressure tests.
2. Pipe: All metal main lines in the system shall be capped and pressure tested at 125 psi (860 Kpa) for a period of 1 hour with no drop in pressure. All leaks found shall be corrected by turning the pipe in the fittings as no caulking or epoxy fillers will be permitted.
3. Plastic Pipe: All plastic main lines in the system shall be capped and pressure tested at 125 psi (860 Kpa) for a period of 1 hour with no drop in pressure. All leaks found shall be corrected by removing the leaking pipe or fittings and installing new material in place thereof and retesting.



4. Closing in Uninspected Work: The Contractor shall not allow nor cause any of this work to be covered or enclosed until it has been inspected, tested and approved by the Engineer. Should any of this work be enclosed or covered before such inspection and test, the Contractor shall uncover the work at his own expense and after it has been inspected, tested and approved, shall make all repairs with like materials necessary to restore all his work and that of the other contractors to its original condition.

*Add the following Subsections:*

801-5.7.5 Drip Irrigation Layout Inspection and Test. Subsection 801-5.7.5 is hereby added to Section 801 of the Standard Specifications as follows:

The contractor shall notify the engineer for inspection and approval of dripline layout and coverage test prior to backfilling. Should any of this work be backfilled or covered before such inspection and test, the Contractor shall uncover the work at his own expense and after it has been inspected, tested and approved, shall make all repairs with like materials necessary to restore all his work and that of the other contractors to its original condition.

801-5.7.6 Approval. Subsection 801-5.7.6 is hereby added to Section 308 of the Standard Specifications as follows:

Written approval and acceptance of the irrigation system must be obtained before final payment is considered.

**801-6 MAINTENANCE AND PLANT ESTABLISHMENT**

**801-6.1 General.**

The entire project shall be satisfactorily maintained, commencing from the time that all items of work have been completed as specified in the foregoing articles of these Special Provisions and to the satisfaction of the Engineer, and continuing through the plant establishment period and the landscape maintenance period until final acceptance of the project.

Project maintenance work shall consist of:

<b>Description of work items:</b>	
Applying irrigation water	Sweeping pavement
Removing weeds	Removing litter and debris

<b>Description of work items:</b>	
Caring for plants	Preventing and repairing damage

Project maintenance work shall consist of applying water (except initial watering of plants), weeding, caring for plants, edging, sweeping walks, litter pickup, and performing all general project maintenance.

801-6.2 Plant Establishment Period.

The plant establishment period shall be part of the maintenance period.

801-6.3 Landscape Maintenance Period.

The landscape maintenance period shall be a minimum of 90 calendar days, commencing upon written authorization from the Engineer. This period shall not start until all construction work is complete, including the plant establishment period.

801-6.4 Plant Establishment and Landscape Maintenance Requirements.

801-6.4.1 General. In order to carry out the work, the Contractor shall maintain a sufficient number of men and adequate equipment to perform the work herein specified from the time any planting is done until the final approval.

If at any time the Contractor is not performing maintenance work in the opinion of the Engineer, maintenance period shall be suspended and not restarted until all deficiencies have been corrected to the satisfaction of the Engineer. No payments will be made for work required during the suspended period and the period shall be extended by the length of time of the suspension.

All plants and planted areas shall be kept well watered by automatic irrigation system and manual hand watering, as needed, and kept well weed-free at all times. Weeds shall be removed and disposed of off the site.

The Contractor shall be responsible for detecting diseases and pests as soon as their presence is manifested. He shall take immediate action to identify the disease and/or pest and apply such remedies as are necessary to control the infestation. He shall remove all rodents, taking control measures immediately upon discovery.

Apply commercial fertilizer on all planted areas as required to sustain growth. The Engineer shall be notified at least 2 days before starting this operation.

Damage to planting areas shall be repaired immediately.

801-6.4.2 Lawns. The lawn areas shall kept moist, but not glistening wet, until time for the first cutting of grass. Water lawn to maintain a thriving condition. Any area where the lawns fail to establish satisfactorily shall be immediately replanted.

The Engineer must approve the lawn areas prior to the first mowing.

Workmen shall not be allowed to walk on the grass unnecessarily before, during, or after planting operations. Grass areas that have been damaged or compacted shall be recultivated and sodded at the Contractor's expense.

The lawns shall be edged whenever necessary. The grass shall be mowed with a sharp mower before it exceeds 3 inches in height. The grass will be cut to not less than 2 inches and, during the period of maintenance, the grass will not be allowed to exceed 3 inches in height.

Immediately after the first cutting of grass, where trees occur in grass areas, the grass shall be turned under and neatly edged 12 inches away from the plants. The lawn edges shall be maintained in a neat condition until acceptance of the work.

801-6.4.3 Trees, Shrubs, and Groundcovers.

No pruning shall be performed by the Contractor unless directed in writing by the Engineer. The Agency's Certified Arborist must be present for any attempted pruning operations. Seventy-two (72) hours prior notice to the Agency is required before commencing pruning operations.

ANY TREES PRUNED WITHOUT PERMISSION OR IN A FASHION UNACCEPTABLE TO THE AGENCY SHALL BE REPLACED IN KIND AND SIZE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AGENCY.

If pruning is permitted by the Engineer:

- All trees and shrubs shall be pruned to maintain natural structure. Clipping into formal shapes such as boxes and balls will not be allowed unless such is specified in the design.
- Young trees shall be pruned to select and develop permanent scaffold branches; to remove overlapping and rubbing limbs; to eliminate narrow crotches; and to maintain growth within space limitations. All cuts shall be made to lateral branches, or buds, or flush with branch bark collar. Side pruning of young trees, stubbing or heading back will not be permitted.
- Evergreen trees shall not be pruned, except under the direction of the Engineer.

- The objectives of shrub pruning are the same as for trees.

Groundcovers shall be edged and trimmed to keep in bounds and to achieve an overall even appearance. Keep ground cover 12-inches clear of the base of shrubs, and clear of low branches.

801-6.4.4 Replacement of plants. All plants that show signs of failure to grow at any time during the life of the contract or those plants so injured or damaged from any cause, including vandalism, as to render them unsuitable for the purpose intended shall be immediately replaced in kind and size at the expense of the Contractor.

801-6.4.5 Inspections. A written notice requesting an inspection should be submitted to the Engineer at least 48 hours prior to the anticipated date.

Prior to inspection, the site must be thoroughly cleaned up and all excess material and debris removed.

Prior to start of and at the end of the landscape maintenance periods, the Contractor will be required to have a complete inspection and approval of all landscape construction items.

An inspection shall be scheduled at 30-calendar day intervals during the landscape maintenance period.

#### 801-6.5 GUARANTEE

*Add the following:*

Close Out. The irrigation system shall be ready for complete automatic operation to the satisfaction of the Engineer. Contractor shall provide all appurtenances, devices, record documents, and manufacturers literature necessary to operate and maintain the system, and guarantees, in writing.

#### 801-8 PAYMENT

*Add the following:*

Payment for Landscape Planting and Irrigation System shall be as follows:

- (a) Soil Preparation: Payment shall be at the contract bid unit price per square foot, and shall include all costs of furnishing and installing fertilizers and conditioners, tilling, soil testing, fine grading, and other work required to prepare soils for planting.

- (b) Trees and Shrubs: Payment shall be at the appropriate contract unit bid price per each size of container and shall include all costs for furnishing and installing trees and shrubs.
- (c) Sod Lawn: Payment shall be at the contract bid unit price per square foot and shall include all costs for work appurtenant to furnishing and installing sod lawn.
- (d) Mulch. Payment shall be at the contract bid unit price per cubic yard installed and shall be full compensation for furnishing and installing mulch.
- (e) Irrigation Lateral Line: Payment for irrigation lateral line shall be included in the bid price for Irrigation Head Assembly and Subsurface Drip Irrigation.
- (f) Shutoff Valve Assembly: Payment for shutoff valves shall be at the contract bid unit price per each valve of the size specified in the bid, and shall be for a complete operating assembly, including valve box.
- (g) Remote Control Valve Assembly and Drip Control Assembly: Payment for Remote Control Valve and Drip Zone Control Assembly shall be at the contract bid unit price per each valve of the size as specified in the Bid Schedule, and shall be for a complete operating assembly, including valve box and cover and furnishing and installing control wires to controller.
- (h) Control Wire: Payment for control wire shall be included in the contract bid unit price for Remote Control Valve Assembly.
- (i) Control Wire Conduit and Pull Box. Payment for furnishing and installing control wire conduit and pull box shall be at the contract bid unit price per linear foot in place of each size as shown on the bid form and shall include all costs for furnishing and installing control wire conduit and pull box as indicated on the plans.
- (j) Quick Coupling Valve Assembly: Payment for quick coupling valves shall be at the contract bid unit price per each, and shall be for a complete operating assembly, including valve box.
- (k) Backflow Prevention Device Assembly: Payment for backflow prevention device shall be at the contract bid unit price per each and shall include all costs for furnishing and installing a complete operating assembly, furnishing and installing enclosure and PCC pad and frost cover, including removal and returning existing backflow assembly to the County.
- (l) Y-Strainer: Payment for the wye strainer valve assembly shall be at the contract bid unit price per each, and shall be a complete operating assembly, including valve box.

- (m) Irrigation Sprinkler Assembly: Payment for irrigation sprinkler assembly (rotary and rotor) shall be at the contract bid unit price per each for each type of head specified and shall include serving lateral piping between heads and from control valve, and all other appurtenant devices and work.
- (n) Subsurface Drip Irrigation: Payment for subsurface drip irrigation shall be at the contract bid price per square foot for subsurface drip system, and shall be for a complete operating subsurface drip system installed, including servicing lateral piping, flush valves, operation indicator, and related valve boxes.
- (o) Connection to Existing Potable Water Service of Existing Irrigation System: Payment shall be at the contract bid lump-sum price for complete connection, including backside plumbing, excavation, backfill, saw cutting and pavement replacement at the point shown on the drawings.
- (p) Irrigation Main Line: Payment for irrigation main line shall be at the contract bid unit price per linear foot in place for each size specified in the bid.
- (q) Pipe Sleeving: Payment shall be at the contract bid unit price per linear foot and shall be a complete installation in place for each size as specified in the Bid Schedule.
- (r) Operation Indicator: Payment for the operation indicator assembly shall be included in the Subsurface Drip Irrigation, and shall be a complete operating assembly, including valve box.
- (s) Supplemental irrigation control systems: Payment for rain shut-off device and flow control sensors shall be paid for as part of the Replacement Existing Automatic Irrigation Controller, and no additional payment will be made.
- (t) Flush Valve and Drain Assemblies: Payment for the flush valve and drain assemblies shall be included in the Subsurface Drip Irrigation, and shall be a complete operating assembly, including valve box.
- (u) Remote Control Master Valve Assembly: Payment for Remote Control Master Valve shall be at the contract bid unit price per each valve of the size specified in the Bid Schedule, and shall be for a complete operating assembly, including valve box and cover and furnishing and installing control wires to controller.
- (v) Replacement Existing Automatic Irrigation Controller: Payment for Replacement Existing Automatic Irrigation Controller shall be at the contract bid unit price per each as indicated on the Bid Schedule and shall include all costs for furnishing and installing a complete operating system as indicated on the drawings, including conduit, enclosure, connection to existing electrical service, all devices, appurtenances, materials, tools and equipment required to provide an operating system. Payment shall include removal and returning existing controller assembly to the County and replacing all damaged electrical facilities.

- (w) Plant Establishment Period: Payment for the plant establishment period shall be included in the unit bid prices for landscape planting items and no additional compensation will be made therefor.
- (x) Landscape Maintenance Period: Payment shall be at the contract lump-sum bid price, and shall include all costs of labor, materials, equipment, tools, and appurtenances to maintain the landscape planting and irrigation system.
- (y) Boring. Payment for bored control wire conduit and irrigation sleeving under existing sidewalk and driveway shall be included in the payments for Irrigation Mainline and Irrigation Sprinkler Assembly and shall include all costs for furnishing and installing by boring, including pavement removal and replacement, excavation for set-up pits, potholing, and all other costs necessary for boring.

All costs for testing, record drawings, and other miscellaneous costs shall be distributed among the various items, and no additional payment will be made therefor.

## SPECIAL PROVISIONS

### ELECTRICAL WORK AND SYSTEMS

All equipment, materials, and components shall conform to the 2018 Caltrans Standard Plans and Revised Standard Specifications, Section 86, "Electrical Work" and Section 87 "Electrical Systems" unless otherwise noted in these Special Provisions and on the Plans. These Plans and Specifications are hereinafter referred to as State Standard Plans and State Standard Specifications. Copies of these documents are available from the Caltrans, District 3 office at 703 B Street Marysville, CA 95901 or from Caltrans, 6002 Folsom Boulevard, Sacramento, California 95819, (916) 445-3520.

All materials required for the completion of work as shown on the Plans shall be provided by the Contractor.

#### SECTION 86 – GENERAL

##### 86-1.01 General.

86-1.01C Submittals. The schedule of values (cost breakdown) shall be submitted to the Engineer in conjunction with equipment list and drawings.

Equipment List and Drawings shall be submitted to the Engineer within ten (10) working days after the date of the Notice of Contract Approval.

Materials lists, manufacturer's data, brochures, technical data, etc., shall be labeled and identified, and shall be submitted in bound booklet form.

The Contractor shall retain one copy of all approved material lists and samples at the job site, readily accessible for inspection by the Engineer. Said materials lists and samples shall be the basis for approval or rejection of work.

The Contractor shall guarantee the entire work constructed under this contract and will fully meet all requirements as to quality of workmanship and materials furnished by him. The Contractor shall make, at the Contractor's expense, any repairs or replacements made necessary by defects in workmanship or materials that becomes evident within 1 year after acceptance of work by the Agency and to restore to full compliance with the requirements of these Specifications, any part of the work which during the 1-year period is found to be deficient with respect to any provision of the Plans and Specifications. The Contractor shall make all repairs and replacements promptly upon receipt of written orders from the Engineer. If the Contractor fails to make the repairs and replacements promptly, the County may do the work and the Contractor and his surety shall be liable to the County for the cost.

Whenever any work or equipment is to be guaranteed or maintained by a



manufacturer, supplier, or subcontractor, said obligation shall be that of the Contractor.

All guarantees shall be in writing and delivered to the Engineer by the Contractor prior to final acceptance of the work.

#### 86-1.01D Quality Assurance.

86-1.01D(3) Department Acceptance. Materials and equipment furnished by the Contractor shall be tested at an independent testing facility designated by the County. Cost for testing and delivery to and from the test site shall be considered as included in the lump-sum price bid for traffic signal installation/modification, and no additional compensation will be allowed.

#### 86-1.02 Materials.

86-1.02B Conduit. Conduit shall be Schedule 80 PVC.

86-1.02C Pull Boxes. Pull boxes shall be pre-cast reinforced concrete. Grout-in bottom of pull boxes will not be required.

Electrical pull boxes, unless noted otherwise on the Plans, shall be No. 5 or larger and shall have plastic lined lids.

#### 86-1.02F Conductors and Cables.

##### 86-1.02F(2) Conductors.

##### 86-1.02F(2)(c) Copper Conductors.

86-1.02F(2)(c)(i) General. Circuit conductors shall be THW PVC type.

#### 86-1.02K Luminaires.

86-1.02K(1) General. LED light fixture and luminaire shall be as specified on the plans. LED luminaire shall have a Type III distribution and a 3000K temperature.

86-1.02M Photoelectric Controls. Photoelectric control shall be Type III for all lighting.

86-1.02P Enclosures. Service equipment shall be 120V/240V, type as shown on Plans.

## SECTION 87 – ELECTRICAL SYSTEMS

### 87-1 GENERAL

#### 87-1.03 Construction.

##### 87-1.03A General.

No work shall commence and no material or equipment shall be stored at the jobsite until such time that the Contractor notifies the Engineer in writing of the date that all electrical materials and equipment are to be received. Upon receipt of said notification by the Engineer, the Contractor may commence work within 5-working days prior to said delivery date.

Contractor shall coordinate with an PG&E certified contractor to comply with minimum overhead clearances for the removal and/or installation of traffic signal poles. The cost to hire an PG&E certified contractor to perform work shall be included in the lump sum price bid for traffic signal installation and no additional compensation will be allowed therefore.

Where the Contractor-installed facilities are damaged prior to final acceptance by the Engineer, the Contractor shall repair or replace such facilities at his own expense.

The job site shall be maintained in a neat and orderly condition at all times and areas of sidewalk removal to be left open for less than 5 days shall be covered with plywood sheeting and barricades. Areas to be left open more than 5 days shall be patched with temporary AC pavement, smoothed to provide a level finished walking surface.

The Contractor shall arrange to have a representative of the Engineer and a signal technician present at the time of the new controller operation is implemented. The technician shall be fully qualified to work on the controller assemblies, and shall be employed by the controller manufacturer or his authorized representative. The Engineer's representative shall be notified at least 48 hours prior to the turn on.

87-1.03C Installation of Pull Boxes. No pull box shall be located in or within 1-foot of any curb ramp.

87-1.03E Excavation and Backfilling for Electrical Systems. Excavation for foundation shall be hand dug until clear of obstructions.

87-1.03H Conductor and Cables Splices.

87-1.03H(2) Splice Insulation Methods. Splices shall be Type C insulated by Method B, as shown on State Standard Plan ES-13A.

87-1.03L Utility Service. Electrical service equipment installation and conduit run details shall be as specified by the serving utility company, and written proof of their approval by the utility shall be submitted to the Engineer prior to installation. The Contractor shall be responsible for all service details, expenses, and scheduling far in advance of need. The Contractor shall pay all service connection fees.

## 87-2 LIGHTING SYSTEMS

### 87-2.03 CONSTRUCTION

87-2.03A General. All equipment, materials, and components for the installation of the service meter conduit system shall conform to the specifications and requirements of the Pacific Gas and Electric (PG&E) Company. Contact the PG&E for exact pole, riser, and handhole locations.

All conduit, except crossing shall be behind curb in parkway. Conduit will not be allowed in the street and all conduit shall be bored. Open trench operations will not be allowed.

## 87-21 EXISTING ELECTRICAL SYSTEMS

### 87-21.03 Construction.

87-21.03B Maintaining Existing Electrical Systems. All work and materials required to keep the existing traffic signal and street lighting systems operational, including temporary traffic signal poles and wiring per Section 87-20 "Temporary Electrical Systems" will be considered as included in the lump-sum price bid for traffic signal modification and installation work, and no additional compensation will be allowed therefor.

## PAYMENT

Payment for furnishing and installing park lighting and electrical system complete per plan including power connection to existing park electrical system and the installation thereof shall be included in the lump-sum price bid, and no additional compensation will be allowed therefore. Furnishing and installing shall include, but not limited to, conduit, conductors, pull boxes, receptacles, area lighting systems, including fixtures, bulbs, and poles; spot light and upright assembly including PCC base and encasing; lighting control assembly; trenching; connection to service at the point shown on the drawings; trenching; power supply connection, distribution; power supply feed from existing park electrical system, and other work appurtenant and equipment required to provide an operating electrical systems, and all connecting to electrical equipment to the provisions of the electrical systems, as shown on the drawings.

Payment for lighting poles, luminaires, equipment, appurtenances and the installation thereof shall be included in the price bid for furnishing and installing park lighting and electrical system,

and no additional compensation will be allowed therefor.

Payment for conduit, conductors, equipment, appurtenances and the installation thereof shall be included in the price bid for furnishing and installing park lighting and electrical system, and no additional compensation will be allowed therefor.

Payment for pull boxes, equipment, appurtenances and the installation thereof shall be included in the price bid for furnishing and installing park lighting and electrical system, and no additional compensation will be allowed therefor.

**ENGINEER'S ESTIMATE**  
**ORLAND MEMORIAL PARK**  
**ASSESSIBILITY AND BEAUTIFICATION PROJECT**  
**IN THE COUNTY OF GLENN**

ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	ITEM PRICE	TOTAL
1	Mobilization and demobilization (Bid price not to exceed amount equivalent to 8% of the total construction cost for Bid Items 5 to 40)	LS	1	\$ 50,000.00	\$ 50,000.00
2	Clearing, grubbing and removal	LS	1	\$ 30,000.00	\$ 30,000.00
3	Remove and dispose existing tree complete including roots to 24-inch deep	EA	3	\$ 1,000.00	\$ 3,000.00
4	Special Project Worksite Maintenance and Public Convenience and Safety (Bid price not to exceed amount equivalent to 2% of the total construction cost for Bid Items 5 to 40)	LS	1	\$ 20,000.00	\$ 20,000.00
5	Construct 6-inch PCC mow curb complete per plan	LF	430	\$ 20.00	\$ 8,600.00
6	Construct 6-inch thick integral color, stamped PCC paving complete per plan including steel reinforcement	SF	500	\$ 30.00	\$ 15,000.00
7	Construct 6-inch thick natural color PCC ramp with retardant finish complete per plan including steel reinforcement and CAB	SF	295	\$ 35.00	\$ 10,325.00
8	Construct 4-inch thick natural color PCC paving with retardant finish surface over compacted subgrade complete per plan	SF	2,875	\$ 20.00	\$ 57,500.00
9	Furnish and install tubular galvanized steel handrail complete per plan	LS	1	\$ 10,000.00	\$ 10,000.00
10	Furnish and install 3-foot high tubular prefabricated aluminum fence complete per plan	LS	1	\$ 6,000.00	\$ 6,000.00
11	Furnish and install precast picnic table assembly complete per plan	EA	2	\$ 6,000.00	\$ 12,000.00
12	Furnish and install precast concrete trash receptacle assembly complete per plan	EA	2	\$ 5,000.00	\$ 10,000.00
13	Furnish and install prefabricated bench complete per plan	EA	4	\$ 4,000.00	\$ 16,000.00
14	Furnish and install County furnished dedication bricks/pavers	LS	1	\$ 5,000.00	\$ 5,000.00
15	Furnish and install bronze eagle statue complete per plan including stone veneer pedestal and installation of relocated service medallions on concrete plaque	LS	1	\$ 10,000.00	\$ 10,000.00

ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	ITEM PRICE	TOTAL
16	Furnish and install precast concrete monument sign complete per plan including engineering drawings and structural calculations	LS	1	\$ 15,000.00	\$ 15,000.00
17	Refurbish existing Boy Scout Fire Pit Monument complete per plan	LS	1	\$ 8,000.00	\$ 8,000.00
18	Furnish and install splash guard to existing downspout pipe at the location as indicated on the plan	EA	1	\$ 100.00	\$ 100.00
19	Furnish and install park lighting and electrical system complete per plan including spotlights and power connection to existing park electrical system	LS	1	\$ 200,000.00	\$ 200,000.00
20	Furnish and install 3-inch thick decomposed granite as planting area top-dress	SF	4,357	\$ 6.00	\$ 26,142.00
21	Perform soil preparation.	SF	68,763	\$ 1.50	\$ 103,144.50
22	Furnish and install 24-inch box tree, complete per plan.	EA	11	\$ 700.00	\$ 7,700.00
23	Furnish and install turf sod	SF	61,041	\$ 3.00	\$ 183,123.00
24	Furnish and install 5-gallon shrub	EA	331	\$ 40.00	\$ 13,240.00
25	Furnish and install 1-gallon shrub	EA	383	\$ 25.00	\$ 9,575.00
26	Furnish and install shredded redwood mulch top dress	CY	32	\$ 125.00	\$ 4,000.00
27	Perform connection to existing potable water service of existing irrigation system complete per plan	LS	1	\$ 5,000.00	\$ 5,000.00
28	Furnish and install backflow preventer device, complete per plan including PCC pad, frost blanket and enclosure	EA	1	\$ 6,000.00	\$ 6,000.00
29	Furnish and install line size wye strainer in valve box	EA	1	\$ 1,000.00	\$ 1,000.00
30	Furnish and install line size gate valve in valve box	EA	2	\$ 800.00	\$ 1,600.00
31	Furnish and install quick coupler valve assembly in valve box	EA	6	\$ 500.00	\$ 3,000.00
32	Furnish and install 1-inch size remote control valve in valve box, including control wires to controller	EA	11	\$ 1,000.00	\$ 11,000.00
33	Furnish and install 1-inch size drip control zone assembly complete per plan, including control wires to controller	EA	5	\$ 1,000.00	\$ 5,000.00
34	Furnish and install 3-inch size SCH 40 PVC irrigation sleeve	LF	80	\$ 20.00	\$ 1,600.00
35	Furnish and install 1-1/2-inch size SCH 40 PVC irrigation sleeve	LF	100	\$ 16.00	\$ 1,600.00
36	Furnish and install subterranean drip irrigation system, complete per plan	SF	7,722	\$ 6.00	\$ 46,332.00

ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	ITEM PRICE	TOTAL
37	Furnish and install pop-up rotor assembly complete per plan, including serving lateral line from control valve	EA	108	\$ 100.00	\$ 10,800.00
38	Furnish and install pop-up spray assembly complete per plan, including serving lateral line from control valve	EA	22	\$ 60.00	\$ 1,320.00
39	Furnish and install SCH 40 PVC control wire conduit and pull box	LF	100	\$ 35.00	\$ 3,500.00
40	Furnish and install replacement automatic irrigation controller as specified on the plans; electrical service hook-up; supplemental irrigation control system; complete per plans	EA	1	\$ 10,000.00	\$ 10,000.00
41	Furnish and install master valve assembly in valve box, size per plan, complete per plan including control wires to controller	EA	1	\$ 1,500.00	\$ 1,500.00
42	Furnish and install 1-1/2-inch size SCH 40 PVC mainline.	LF	870	\$ 17.00	\$ 14,790.00
43	Perform 90-day landscape maintenance period.	LS	1	\$ 40,000.00	\$ 40,000.00
<b>TOTAL</b>					<b>\$ 997,491.50</b>
Contingency 15%					<b>\$ 149,623.73</b>
<b>Grand Total</b>					<b>\$ 1,147,115.23</b>