PRCNC20231607

GOLD GATE - PERSPECTIVE VIEW

PROJECT INFORMATION

PROJECT NAME
WASHINGTON STATE FAIR
GOLD GATE - CANOPY

PROJECT ADDRESS
110 9TH AVE SW
PUYALLUP, WA 98371

PROJECT DESCRIPTION
INSTALL NEW CANOPY & REDESIGN PLAZA PAVEMENT

TAX PARCEL NUMBER
0420331121

LEGAL DESCRIPTION
Section 33 Township 20 Range 04 Quarter 11 : NE OF NE & N 1/2 OF SE OF NE LY ELY OF 5TH ST & W OF STATE HWY LESS RDS TOG/W 1/2 5TH ST SW ABUTT VAC BY ORD 2865 EASE OF RECORD PER ETN 527237 ALSO EXC POR CYD TO CY OF PUYALLUP FOR ADD'L R/W PER ETN 4529976 OUT OF & COMB 1-000, 1-017, 1-019, 1-020, 1-031, 1-045, 1-055, 1-101, 1-103 & 1-105 (DCPPJES9-16-80) DC12/12/08JU 10668175DC 6/5/2020BB

DEFERRED PERMITS
ELECTRICAL (L&I), CANOPY ENGINEERING, FOUNTAIN DESIGN
CANOPY ENGINEER SEALED DOCUMENTS BY BIRD AIR
SPECIAL INSPECTION STATEMENT/FORM

PROJECT DIRECTORY

THE OWNER
WASHINGTON STATE FAIR
MARTY MATTES (COO)
110 9TH AVE SW
PUYALLUP, WA 98371
marty@thefair.com
253.841.5556

DESIGN ARCHITECT
K/O ARCHITECTS
CHIP OVERTON & SARAH OVERTON
650 S PRAIRIE VIEW DR
STUDIO 103
WEST DES MOINES, IA, 50266

THE ARCHITECT OF RECORD
JEFF BROWN ARCHITECTURE, LLC
JEFF BROWN, ARCHITECT, AIA
SONGYI CHO (CONTACT PERSON)
12181 C STREET S
TACOMA, WA 98444
songyi.cho@hotmail.com
509.432.4651

STRUCTURAL ENGINEER
CHRIS FYNBOE, P.E.
CHRIS FYNBOE
12181 C STREET S
TACOMA, WA 98444
ccfynboe@cs.com
253.537.8128

CONTRACTOR
ABSHER CONSTRUCTION
CURT GIMMESTAD (VP)
1001 SHAW ROAD
PUYALLUP, WA 98371
curt.gimmestad@absherco.com
253.845.9544

ELECTRIC
DANARD ELECTRIC
STEVE DOLYE
18819 38TH AVE E
TACOMA, WA 98446
steved@danardelectric.com
253.875.8650

CANOPY DESIGN & ENGINEERING
BIRDAIR, INC.
ELIZABETH SCHAEFER (PM)
6461 MAIN ST
AMHERST, NY 14221
eschaefer@birdair.com

CITY OF PUYALLUP
Planning Division Approved Site Plan
(253) 864-4165
MINIMUM SETBACK REQUIREMENTS
Front Yard: Rear Yard:
Interior Side Yard: Left: Right:
Street Side Yard:
Zoning District:
Permit #:
Additional Conditions/Comments
zero setbacks
Staff: Chris BEALE
Date: 01/23/2024
Front, rear, and side yard property lines shall be marked with string from surveying pins prior to footing inspection.

Structural Observation: Structural observation requirements by the engineer of record IBC 1704.6.1 Structural observations for structures. See Sheet 23008-1000 on shop drawings.

Deferred submittal:

All submittal must be submitted to the City as reviewed by the EOR and/or the AOR.

1) IBC 1704.4 Contractor responsibility. Each contractor shall submit prior to construction a statement of responsibility. See Sheet 23008-1000 on shop drawings. Still outstanding for general contractor.

2) Fence and gate hardware for egress and code compliance. See notes on A1.3.

See special inspection notes in the engineering, structural sheets, architects plan review response. CTL to provide special inspection for welding.

Special inspection is required by a qualified special inspection agency in accordance with IBC section 1704.2.1 - Special inspector qualifications. WABO certified special inspections are acceptable to qualification standards.

SYMBOLS LEGEND

ROOM IDENTIFICATION — XXX / XXX
DOOR NUMBER — XXX
WINDOW NUMBER — XX
EQUIPMENT NUMBER — XX
WALL TYPE — XX
CENTERLINE — CL
NORTH ARROW
DATUM
REVISION — #
COLUMN GRID/LINE — X
ENLARGED DETAIL MARK — X / A#.##
BUILDING SECTION MARK — X / A#.#
DETAIL MARK — X / A#.##
EXTERIOR ELEVATIONS SYMBOL — X / A#.#

GENERAL NOTES

1. **CODE CONFLICTS**
ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH MOST CURRENT APPLICABLE CODE AND ORDINANCES OF PIERCE COUNTY
2. **DISCREPANCY**
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPORT DISCREPANCIES FOUND WITHIN THESE DOCUMENTS TO THE ARCHITECT AS SOON AS THEY ARE DISCOVERED
3. **SCALING DRAWINGS**
DO NOT SCALE THE DRAWINGS. CONTACT ARCHITECT WITH ANY CONFLICTS
4. **DIMENSIONS**
DIMENSIONS ARE TO FACE OF STUD AND FACE OF CONC. U.N.O. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, AND MEMBER SIZES PERTAINING TO THE WORK PRIOR TO PROCEEDING. ALL DIMENSIONS OF EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE ARCHITECT MUST BE NOTIFIED IN WRITING OF ANY VARIATION FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DRAWINGS.
5. **DOORS AND WINDOWS**
ALL WINDOW AND DOOR SIZES SHALL BE VERIFIED AND FIELD MEASURED PRIOR TO FABRICATION
6. **EXISTING CONDITIONS**
THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT THE SITE AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY UNCERTAINTIES OR DISCREPANCIES WITHIN THESES DOCUMENTS
CONTRACTOR SHALL PROTECT THE EXISTING SITE WORK, LANDSCAPING, AND AREAS OF THE SITE NOT IN THE SCOPE OF WORK
7. **DEMOLITION**
CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. PROTECT EXISTING STRUCTURE TO REMAIN
8. **HEALTH AND SAFETY**
CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY PRECAUTIONS AND THE MEANS AND METHODS TO PERFORM THE WORK.
CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS
9. **QUALITY STANDARDS**
ALL CONSTRUCTION SHALL MEET OR EXCEED INDUSTRY STANDARDS. DETAILS ARE PROVIDED FOR MINIMUM QUALITY AND TO GIVE STANDARDS OF CONSTRUCTION. IF CONDITION IS NOT SPECIFICALLY DETAILED, SUBMIT A DETAIL FOR GUIDANCE AND REVIEW FOR ACCEPTANCE.
CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED FOR ALL CASEWORK, FIXTURE, AND SPECIALTY ITEMS.

2018 IBC REFERENCE

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION
312.1 ...MISCELLANEOUS GROUP U... STRUCTURES OF AN ACCESSORY CHARACTER...NOT CLASSIFIED IN ANY SPECIFIC OCCUPANCY...

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS
PROPOSED BUILDING DESIGN: U OCCUPANCY | N/S | TYPE V-B

	CODE
ALLOWABLE HEIGHT (TABLE 504.3)	40'
ALLOWABLE STORY(TABLE 504.4)	1
ALLOWABLE AREA (TABLE 506.2)	5,500 SF

	IBC 2018	ZONING	PROPOSED
HEIGHT	40'-0"	50'-0"	~36'-0"
STORY	1	N/A	1
AREA	5,500 SF	N/A	4609 SF

CODE/ZONING INFORMATION

GOVERNING CODE
2018 INTERNATIONAL BUILDING CODE
2018 WASHINGTON STATE ENERGY CODE, COMMERCIAL
ADOPTED BY WA STATE BUILDING CODE COUNCIL
AND ANY CITY OF PUYALLUP ORDINANCE

ZONING
FAIR
HEIGHT LIMIT: 50'

City of Puyallup Building REVIEWED FOR COMPLIANCE
RayC
05/10/2024
10:34:13 AM

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.
PRINT in COLOR and to SCALE.

LIST OF DRAWINGS

City of Puyallup Development Engineering APPROVED
See permit conditions.
ycharitou
05/10/2024
12:43:56 PM

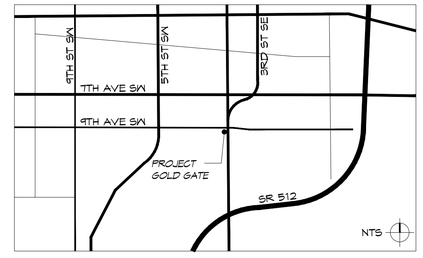
Prior to starting site work, request an erosion and sediment inspection through the CityView portal.

Call Before You Dig. It's the law. Locate all utilities prior to starting work Dial 811 or call 1-800-424-5555.

Sediment control and erosion procedures shall be practiced eliminating and preventing off site damage. Stormwater runoff originating upgrade of exposed areas shall be controlled to reduce erosion and sediment loss during the period of exposure. See civil permit PRCCP20231620 for specifications

Roof downspout control is required. Steps shall be taken to prevent drainage onto adjacent lots. See civil permit PRCCP20231620 for specifications

LOCATION MAP



ABBREVIATIONS

&	AND	GWB	GYPSUM WALL BOARD
<	ANGLE	HDR	HEADER
@	AT	INT.	INTERIOR
°	DEGREE	MFR	MANUFACTURE
ø	DIAMETER	NTS	NOT TO SCALE
B/W	BETWEEN	O.C.	ON CENTER
BLCK	BLOCKING	RC	RAIN CHAIN
℄	CENTERLINE	PW, PLW	PLY WOOD
APP.	APPROXIMATE(LY)	REF	REFRIGERATOR
CLR.	CLEAR(ANCE)	SCHD	SCHDULE
C.O.	CLEAR OPENING	SHTG	SHEATHING
COL.	COLUMN	S.D.	SMOKE DETECTOR
CONC.	CONCRETE	TEM	TEMPER/SAFETY
C.J.	CONTROL JOINT		GLASS
DEMO	DEMOLISH (ION)	T.O.BM	TOP OF BEAM
DN	DOWN	T.O.P.	TOP OF PLATE
DIM	DIMENSION	T.O.S.	TOP OF STEEL
D/W	DISH WASHER	TYP.	TYPICAL
ELEC.	ELECTRIC (AL)	U.N.O.	UNLESS NOTICED OTHERWISE
E.Q.	EQUAL		
E.J.	EXPANSION JOINT	VIF	VERIFY IN FIELD
EXT.	EXTERIOR	WIN	WINDOW
F.O.F.	FACE OF FINISH	W.T.	WEATHER THRESHOLD
F.F.	FINISH FLOOR	W/	WITH
FT	FOOT (FEET)	W/O	WITHOUT
FTG	FOOTING	WD	WOOD
FND	FOUNDATION		

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3774 REGISTERED ARCHITECT JEFFREY E. BROWN STATE OF WASHINGTON

PROJECT NAME/ADDRESS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

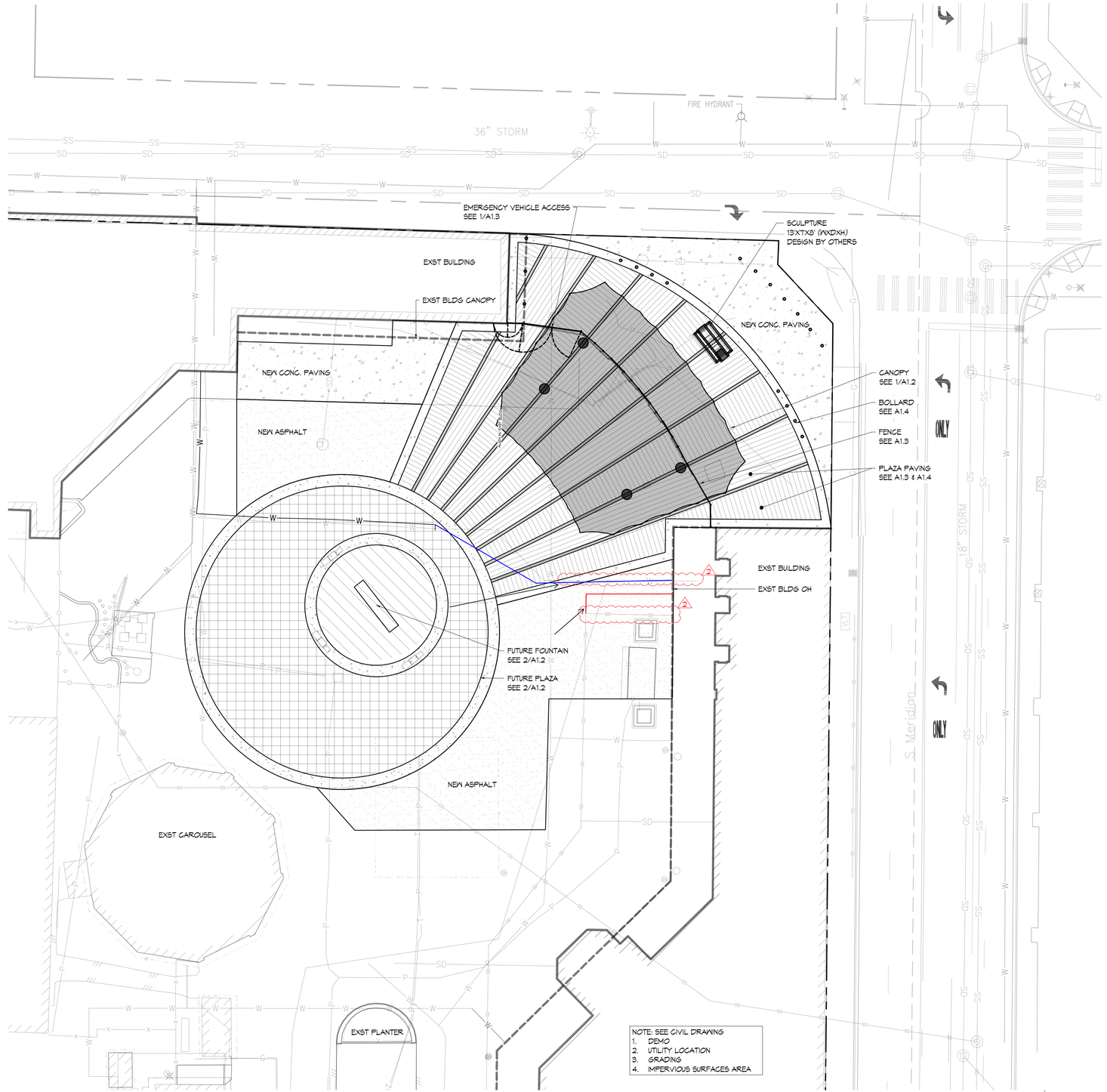
WASHINGTON STATE FAIR
GOLD GATE - CANOPY
110 9TH AVE SW
PUYALLUP, WA 98371

DRAWING TYPE
PERMIT DOCUMENTS

ISSUE DATE	ISSUE DESCRIP.	NO.
11.14.23	PERMIT	
02.01.24	REV-CITY	1
04.25.24	REV-CITY	2

SHEET TITLE
GENERAL INFORMATION

SHEET #
G0.1



SITE PLAN - OVERALL

(11X17) SCALE: 1" = 40'-0"
(22X34) SCALE: 1" = 20'-0"

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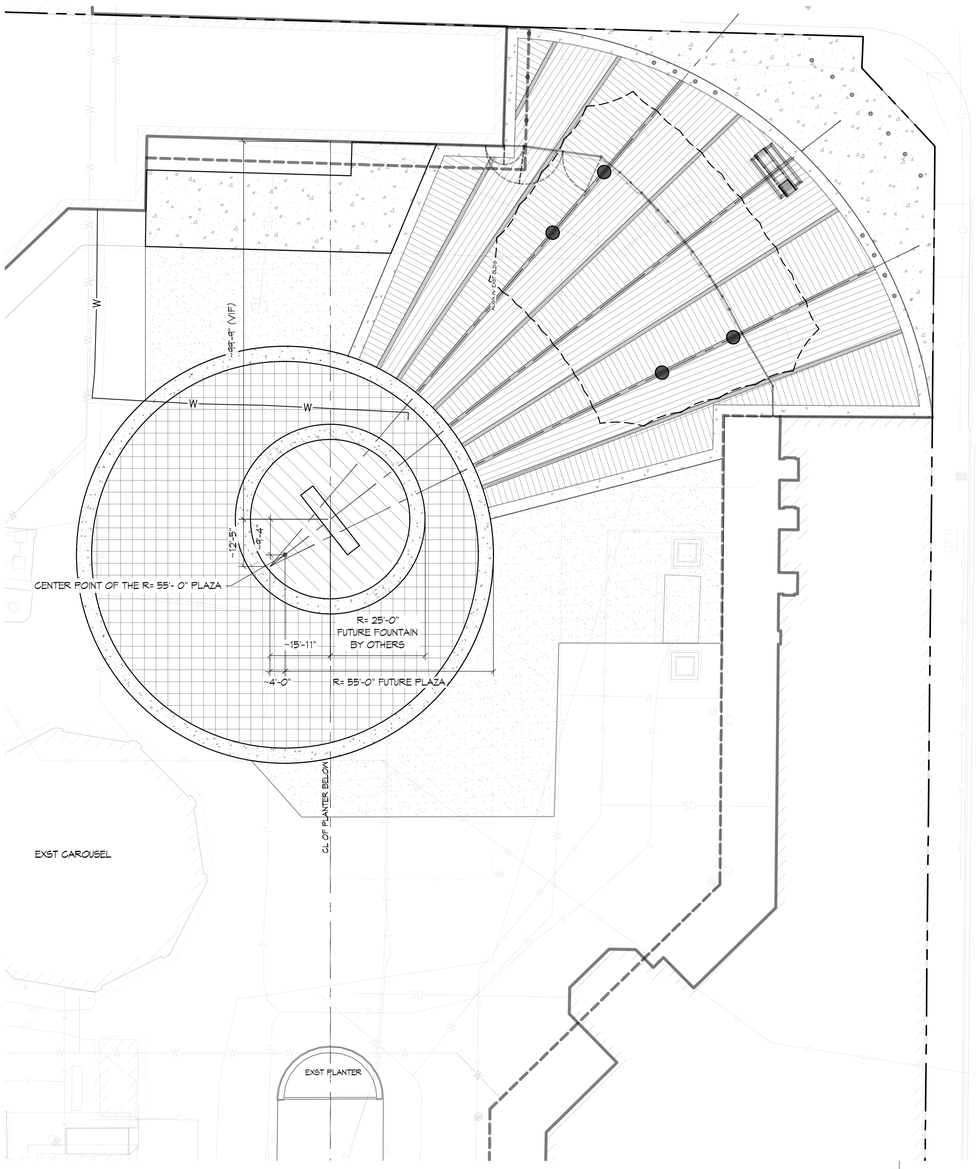
SHEET TITLE

SITE PLAN OVER ALL

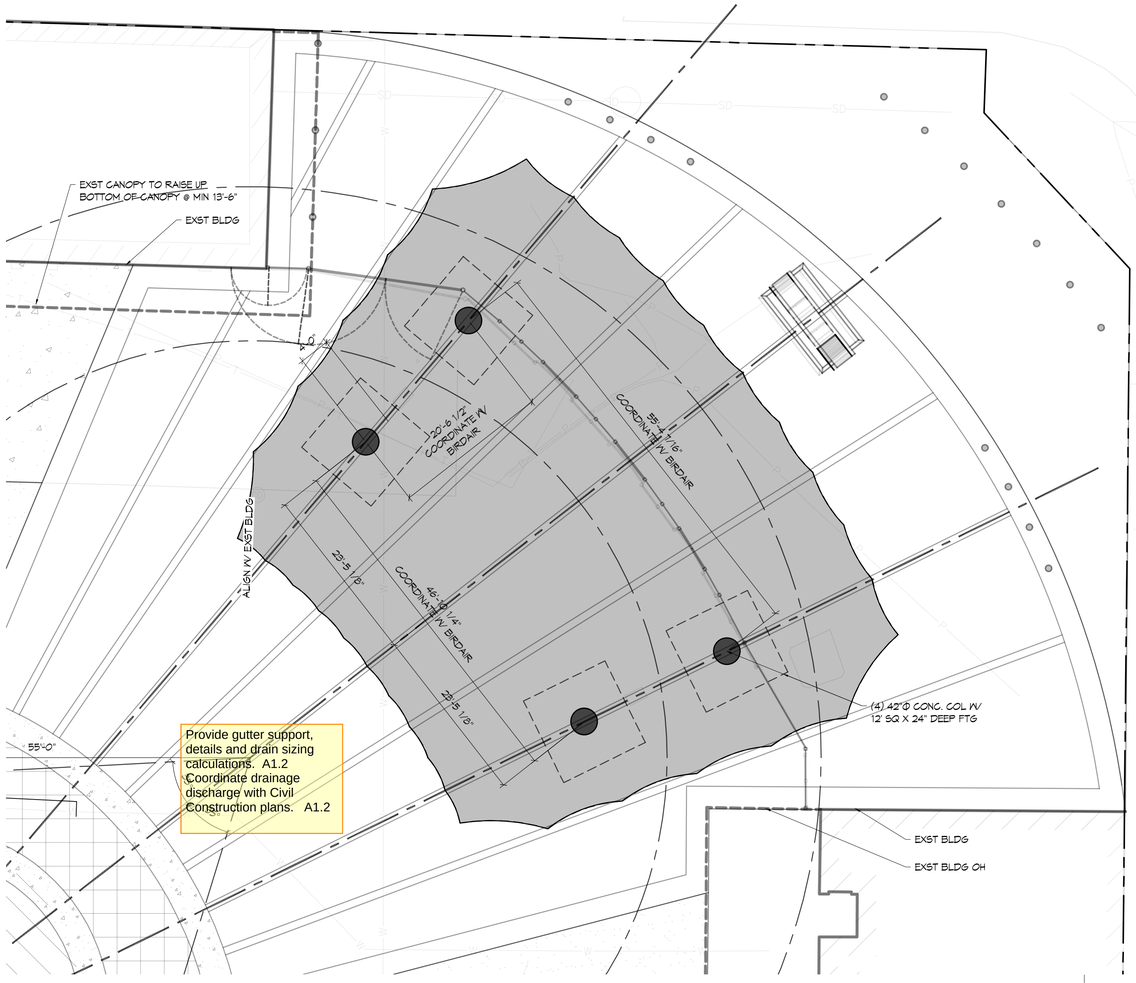
SHEET #

A1.1



2 SITE PLAN - FUTURE PLAZA LOCATION

(11X17) SCALE: 1" = 40'
(22X34) SCALE: 1" = 20'



Provide gutter support, details and drain sizing calculations. A1.2
Coordinate drainage discharge with Civil Construction plans. A1.2

1 SITE PLAN - CANOPY LOCATION

(11X17) SCALE: 1" = 20'
(22X34) SCALE: 1" = 10'

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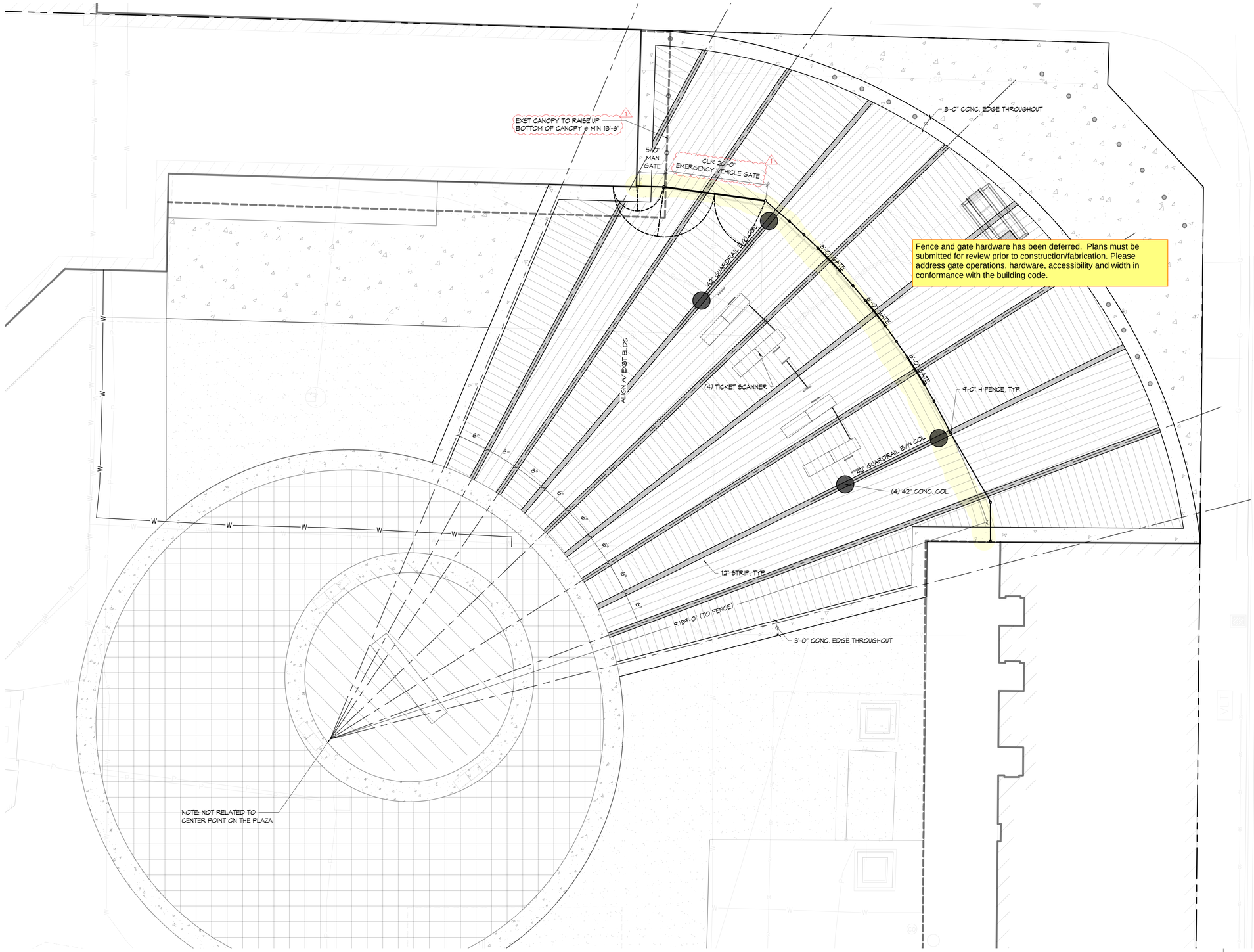
04.25.24	REV-CITY	

SHEET TITLE

SITE PLAN - CANOPY & FUTURE PLAZA

SHEET #

A1.2



Fence and gate hardware has been deferred. Plans must be submitted for review prior to construction/fabrication. Please address gate operations, hardware, accessibility and width in conformance with the building code.

SITE PLAN - FENCE & PAVING

(11X17) SCALE: 1" = 20'
(22X34) SCALE: 1" = 10'

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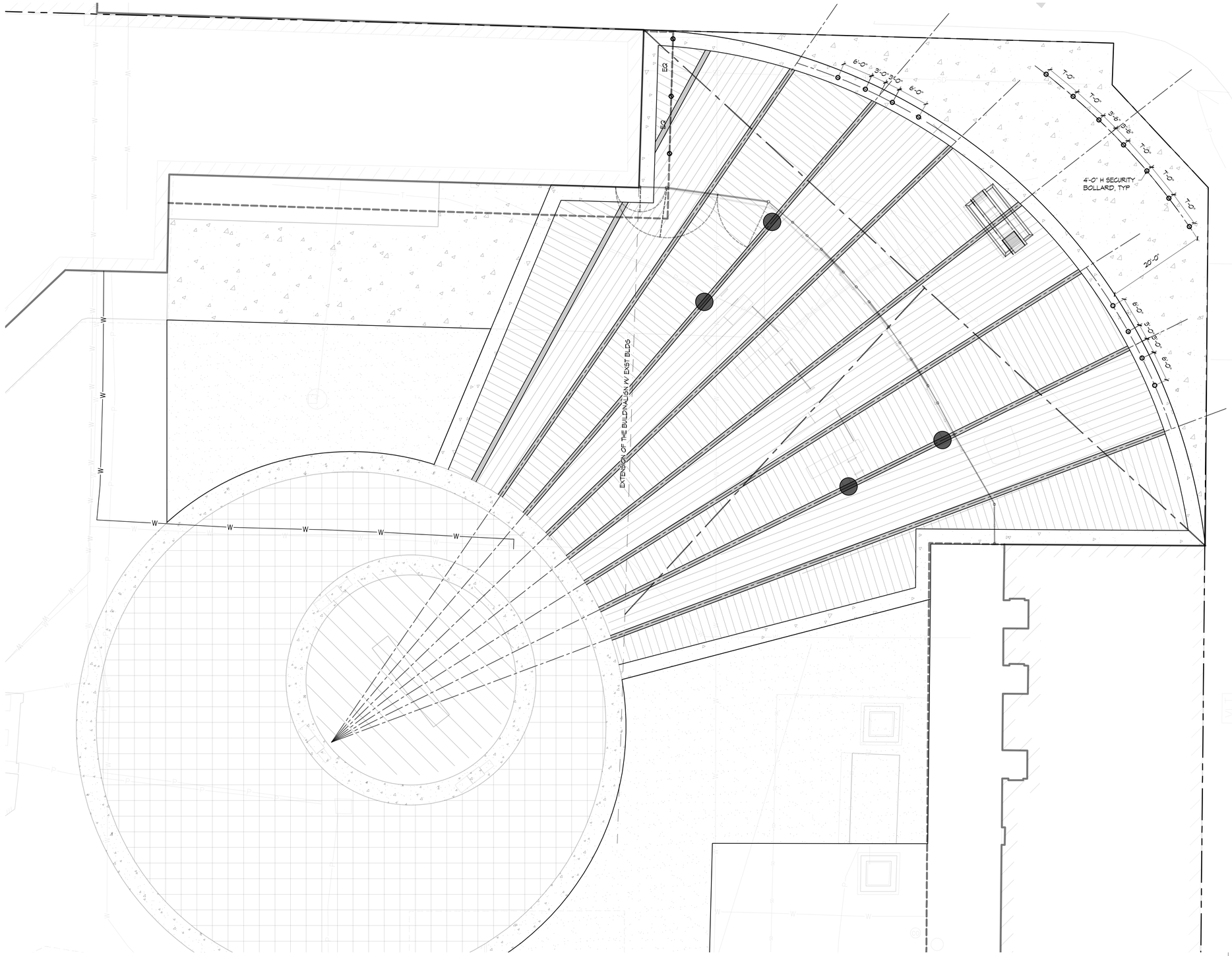
04.25.24	REV-CITY	

SHEET TITLE

SITE PLAN FENCE & PAVING

SHEET #

A1.3



SITE PLAN - BOLLARD & PAVING

(11X17) SCALE: 1" = 20'
(22X34) SCALE: 1" = 10'

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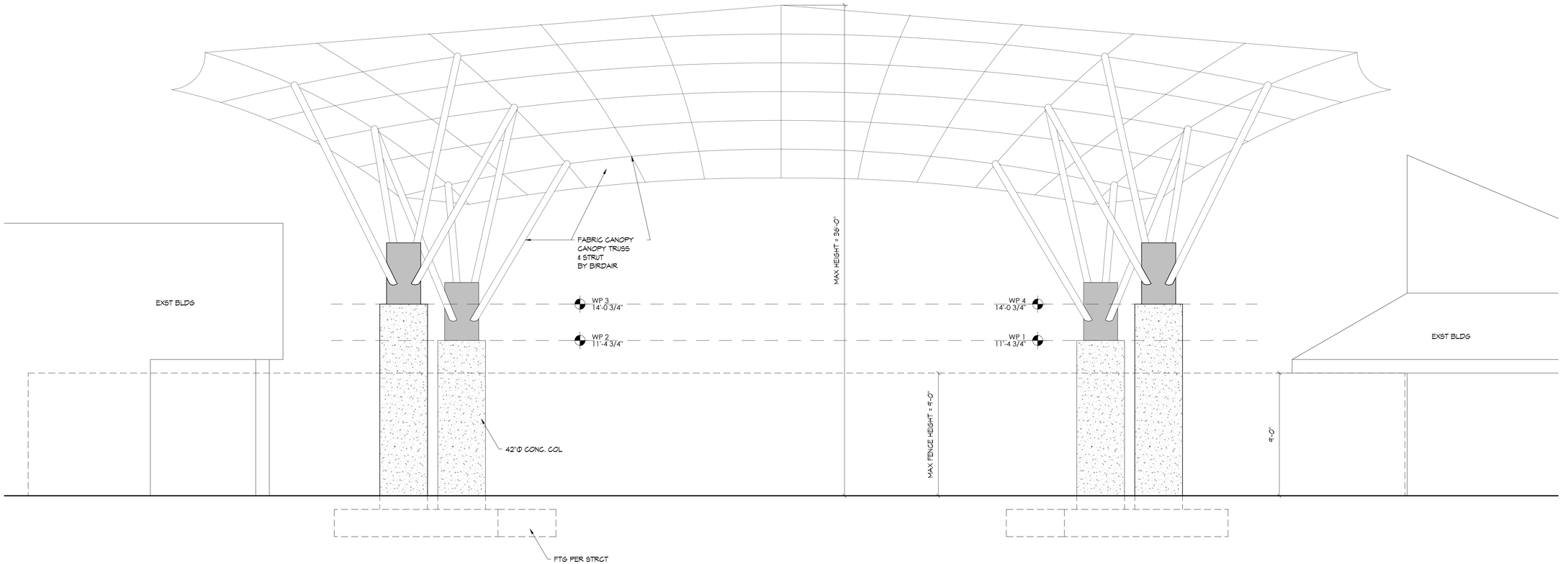
SHEET TITLE

SITE PLAN BOLLARD & PAVING

SHEET #

A1.4



Special inspection shall be preformed by a qualified testing laboratory and inspector. WABO certified special inspection is required; unless otherwise approved.

Welding shall be preformed by a qualified welder or welding fabricator. WABO certification is required; unless otherwise approved.

NE ELEVATION

(11X17) SCALE : 1/8" = 1'-0"
(22X34) SCALE : 1/4" = 1'-0"

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SHEET TITLE

NORTH EAST ELEVATION

SHEET #

A3.1

1.0 Construction Notes.
These notes supplement the specification. Any discrepancy found among the drawings, specifications, these notes, and the site conditions shall be reported to the Architect/Engineer, who shall correct such discrepancy in writing. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk. The Contractor shall verify and coordinate the dimensions among all drawings prior to proceeding with any work or fabrication. The Contractor is responsible for all erection bracing, formwork and temporary construction shoring.

1.10 Bidder's warranty.
By the act of submitting a bid for the proposed contract, the Contractor warrants that: The Contractor and all subcontractors he intends to use have carefully and thoroughly reviewed the drawings and structural notes and have found them complete and free from ambiguities and sufficient for the purpose intended; further that,
The Contractor has carefully examined the site of the work and that from his own investigations, he has satisfied himself as to the nature and location of the work, as to the character, quality, quantities of material and difficulties to be encountered, as to the extent of equipment and other facilities needed for the performance of the work and as to the general and local conditions, and other items which may in any way affect the work or its performance, further that,
The Contractor and all workmen he intends to use are skilled and experienced in the type of construction represented by the drawings and documents bid upon; further that,
Neither the Contractor nor any of his employees, agents, intended suppliers, or subcontractors have relied upon any verbal representations allegedly authorized or unauthorized from the owner or his employees or agents, including the Architect or Engineers, in assembling the bid figures; further that,
The bid figure is based solely upon the construction contract documents and properly issued written addenda and not upon any other written or verbal representations.

1.20 Codes.
All methods, materials and workmanship shall conform to the 2018 International Building Code (IBC) as amended and adopted by the local building authority.
All reference to other codes and standards, (ACI, ASTM, etc.,), Shall be for the latest or most current edition available.

1.30 Design criteria.
Uniform loads:

Loads	Live load	Dead load
Roof	25 psf*	actual

*15% increase in stresses for wood framing allowed for snow live load.
Concentrated loads:
Mechanical units or other concentrated loads on roof or floor. All manufacturers of pre-engineered systems shall locate, coordinate, verify weights, etc., And design their system for these loads.
Lateral loads:
Wind (IBC 1609)
110 MPH - 3 second gust
Iw = 1.0
Exposure C
Earthquake Design Data (IBC 1613)
Ie = 1.0
Ss = 1.27
S_I = 0.438
Site Class D
S_{DS}= 1.06
S_{DI} = 0.679
Seismic Design Catagory D
Cantilever Column Systems - Special reinforced concrete
Cs = .70
R = 1.5
Equivalent lateral force method

1.40 Soil data.
2500 psf bearing. See soils report by Earth Solutions, July 18th, 2023

1.50 Inspection - see specifications.
1.60 Differred Submittals / Shop drawings.
Submit differred submittals / shop drawings to be reviewed by the Engineer for the following:
Concrete mix
Reinforcing steel
Steel framed structure by BirdAir and concrete column

1.70 Miscellaneous.
Verify all dimensions and conditions in the field.
Verify size and location of all openings in the floors, roof and walls with Architectural, mechanical and electrical drawings.
Construction details not specifically shown on the drawings shall follow similar details of sections of this project as approved by the Architect/Engineer.
See architectural, mechanical and electrical drawings for dimensions and locations of openings not dimensioned or shown on structural plans.

1.80 Special Inspections
Special inspection in accordance with IBC section 1704 shall be provided for the following work items: (Refer tp Section 1704 for complete desscriptions)

Item	Required for	Frequency
Reinforced Concrete	Reinforcing	Periodic
	Reinforcing welding	
	Bolts installed in concrete	Continuous
	Use of correct design mix	Periodic
	Slump & air tests	Continuous
	Placement of concrete	Continuous
	Curing temp. & technique	Periodic
Structural steel	ID markings per construction docs	
	Mfr certified mill test reports	

Structural steel Welding	All penetration groove welds	Continuous + 100% Ultrasonic
	Multipass fillet welds	Continuous + 100% Ultrasonic
	Single pass fillet welds > 5/16"	Continuous + 100% Ultrasonic
	Single pass fillet welds < 5/16"	Periodic + 20% Mag Particle
Soil compaction	Bearing capacity	Periodic

2

1.90 Quality Assurance
Qualitity Assurance Plans for Seismic Resistance: Unless otherwise provided by the Architect or other Consultans for this project, the Contractor shall provide quality assurance for each of the following systems:
Piping systems and mechanical units containing flammable combustible or highly toxic materials.
Anchorage of electrical equipment used for emergency or standby power systems.
Suspended ceiling systems and their anchorage.

Each Contractor responsible for the construction of the building's seismic-force-resisting system or other system listed in the quality assurance plan(s) shall submit a written contractor's statement of responsibility to the Building Official, Owner and Architect prior to commencement of the work on that system. The statement of responsibility shall meet all the requirements of IBC 1705.3.

2.0 Site work.

2.10 Excavation.
Excavate to depth shown and to firm undisturbed material. Over-excavations shall be backfilled with lean concrete (f'c = 2,000 psi) at the Contractor's expense. Exercise extreme care during excavation to avoid damage to buried lines, tanks, and other concealed items. Upon discovery, do not proceed with work until receiving written instructions from Architect. A competent representative of the owner shall inspect all footing excavations for suitability of bearing surfaces prior to placement of reinforcing steel. Provide drainage as necessary to avoid water-softened subgrade.

2.20 Fill, backfill and compaction.
Backfill against walls shall not be placed until after the removal of all material subject to rot or corrosion. All fill placed against retaining walls or basement walls shall be free-draining granular material. Structural fill other than pea gravel shall be granular, placed in 6 inch lifts and compacted to at least 95% of its maximum dry density as determined by ASTM D-1557 (Mod. Proctor) and ASTM D-698 (Standard Proctor). Pea gravel fill shall have a maximum particle size of 3/8" diameter.

3.0 Structural Concrete.

3.10 General.
All concrete shall be hard rock concrete meeting requirements of ACI-301, "Specifications for Structural Concrete for Buildings." Proportioning of ingredients for each concrete mix shall be by method 2 or the alternate procedure given in ACI-301. Place concrete per ACI-304 and conform to ACI-604(306) for winter concreting and ACI-605(305) for hot weather concreting. Use interior mechanical vibrators with 7,000 rpm minimum frequency. Do not over-vibrate. Concrete shall be placed in a single pour between construction or control joints. Protect all concrete from premature drying, excessive hot or cold temperature for seven days after placing.

3.20 Strength.
Twenty-eight day compressive strengths shall be:

	psi	slump
Slabs	4000	3" +/- 1"
Beams, columns, vertically		
Formed walls	4000	3" +/- 1"
Footings	4000	4" +/- 1"

These slumps may be increased with proper addition of admixtures for workability without changing the water content of the original aproved mix design. Admixtures containing chlorides are not permitted unless approved by the Engineer.

3.30 Materials.
Cement: ASTM 150, type I or type I-II. Engineer's approval is needed for use of type III cement.
Coarse and fine aggregate: ASTM C-33.
Water shall be clean and potable.

3.40 Water reducing admixtures.
Water reducing admixture: ASTM C-494. Admixtures shall be used in exact accordance with manufacturer's instructions.
Synergized performance systems: Concrete using admixtures to produce flowable concrete may be used subject to Engineer's approval.
Air entrainment: ASTM C-260 and ASTM C-494, entrain 4% plus/minus 1% by volume in all exposed concrete and footings.
No other admixtures permitted unless approved by the Engineer.

3.50 Formwork and shoring.
Follow recommended practice for concrete formwork (ACI-347).
Reshoring for early removal of original supports will not be permitted.
While reshoring operations are underway, no construction loads will be permitted on the new construction.
All shoring shall be the responsibility of the Contractor. Formwork supports and shoring shall be designed to provide finished concrete surfaces at all faces level, plumb, and true to the dimensions and elevations shown. Tolerances and variations shall be as specified.

3.60 Reinforcing steel.
Detail, fabricate, and place per ACI-315 and ACI-318. Support reinforcement with approved chairs, spacers, or ties.
Deformed bar reinforcement: ASTM A-615 Grade 60
Welded deformed bar reinforcement: ASTM A-706 Grade 60, weldable grade, submit weld procedures and mill certificates showing carbon content for all bars to be welded.
Welded wire fabric: ASTM A-185 & ASTM A-82 fy = 65 ksi
Deformed bar anchors: ASTM A-496
All reinforcing shall be lap-spliced a minimum lap of 40 bar diameters except as noted specifically on the structural drawings. No more than 50% of horizontal or vertical bars shall be spliced at one location.
Provide elbow bars (40 diameter) to lap horizontal steel at corners and intersections in footings and walls.
Lap welded fabric 12" or one spacing plus 2", whichever is more.

3.70 Concrete cover on reinforcing (unless shown otherwise).

Bottom of footings	3"
Formed earth face & slab-on-grade	2"
Walls, weather face	1-1/2"
Columns and beams to stirrups	1-1/2"
Bottom of interior slab	3/4"
Walls, inside face	1"

3.80 Construction joints.
Construction joint spacing in walls shall not exceed 50 on center except as directed by the Architect/Engineer.
Horizontal construction joints in beams and girders are not permitted except where indicated. Vertical construction joints in beams and slabs shall be located between the midpoint and the third point of the span. Unless noted otherwise, location of the construction or control joints in slab-on-grade shall be on column grids or under permanent partitions and shall not exceed 20 0" c/c each way.
No joists, beams or girders shall be sleeved for piping or conduit except as noted on the structural drawings or as approved by the Architect/Engineer.
Electrical conduit in slabs, shall be placed at the mid-depth of the slab at a minimum spacing of three times the conduit diameter. Conduit outside diameter shall not exceed one-third of the slab thickness.
Provide control joints in exposed hollow core topping at each end of each hollow core plank. Provide additional joints parallel to planks at 16 o/c maximum.

5.0 Metals.

5.10 Welding.
All welding shall be in accordance with the "Structural Welding Code" ANSI/AWS D1.1. In the case of welding reinforcing bars, all welding shall be in accordance with ANSI/AWS D1.4. Welding of reinforcement bars shall not be allowed except where shown.
Materials: use only E60 or E70 electrodes
All welding shall be by certified welders. All full penetration welds shall be inspected by ultrasonic non-destructive testing procedures. Submit test results to Architect/Engineer for review.

5.20 Structural steel.
All detailing, fabrication, and erection shall conform to aisc "manual of steel construction", latest edition.
Materials:

Steel shapes/plates	ASTM A-36
Pipe columns	ASTM A-53, type E or S (fy=36 ksi.)
Tube columns	ASTM A-500, grade B (fy=46 ksi.)
Bolts, nuts	ASTM A-307 unless noted otherwise

Metal protection: all steel exposed to weather, moisture, soil, or as noted shall be galvanized per ASTM A-123 (1.25 Oz/sf minimum). All other steel surfaces to be shop primed after fabrication.

REINFORCED CONCRETE

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. Reinforcing bar welding: a. verify weldability of reinforcing bars other than ASTM A706; b. inspect single-pass fillet welds, max 5/16", and c. inspect all other wells.	- X	X X	AWS D1.4 ACI318: 26.6.4	-
3. Inspect anchors casts in concrete.	-	X	ACI318: 17.8.2	-
4. Inspect anchors post-installed in hardened concrete members. [5] a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a.	X	X	ACI 318: 17.8.2.4 ACI318: 17.8.2	-
5. Verify use of required design mix.	-	X	ACI 318: CH 19,26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. Inspect prestressed concrete for: a. Application of presstressing forces; and b. Grouting of bonded prestressing tendons	X X	- -	ACI318: 26.10	-
10. Inspect erection of precast concrete members	-	X	ACI318: 26.9	-
11. Verify in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs	-	X	ACI318: 26.11.2	-
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed	-	X	ACI318: 26.11.1.2(b)	-

Provide soils evaluation report and field report for special inspector and city for on site review.

REINFORCED CONCRETE

TABLE 1705.3

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	—	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION —	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. Inspection of anchors post-installed in hardened concrete members[b].	—	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. Verifying use of required design mix.	—	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. At the time fresh concrete is sampled to fabricate	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.				
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. Inspection for maintenance of specified curing temperature and techniques.	—	X	ACI 318: 5.11-5.13	1910.9
9. Inspection of prestressed concrete: a.Application of prestressing forces. b.Grouting of bonded prestressing ten-dons in the seismic force-resisting system.	X X	—	ACI 318: 18.20 ACI 318: 18.18.4	—
10. Erection of precast concrete members.	—	X	ACI 318: Ch. 16	—
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from	—	X	ACI 318: 6.2	—
beams and structural slabs.				
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 6.1.1	—

ABBREVIATIONS

ABBREVIATION	MEANING
@	AT
Ø	DIAMETER
//	PARALLEL
B.U.	BUILT UP
BLKG.	BLOCKING
BOTT.	BOTTOM
BRG.	BEARING
CLR.	CLEAR
COL.	COLUMN
CONN.	CONNECTION
CONT.	CONTINUE
DBL	DOUBLE
EA.	EACH
EQ.	EQUAL
F.O.	FACE OF

ABBREVIATION	MEANING
HDR	HEADER
HORIZ	HORIZONTAL
MFR	MANUFACTURE OR MANUFACTURED
O.C.	ON CENTER
PL.	PLATE
REQ'D	REQUIRED
SCHED	SCHEDULE
SHTHG.	SHEATHING
SIM.	SIMILAR
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH

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PROJECT NAME/ADDRESS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

WASHINGTON STATE FAIR
GOLD GATE - CANOPY
110 9TH AVE SW
PUYALLUP, WA 98371

PROJECT NUMBER

DRAWING TYPE
PERMIT DOCUMENT

ISSUE DATE	ISSUE DESCRIP.	NO.
01.25.24	PERMIT	
03.27.24	REVISION	2
04.23.24	REVISION	3

SHEET TITLE
GENERAL NOTES

SHEET #
S1

STRUCTURAL STEEL WELDING

TABLE C-N5.4-1
Inspection Tasks Prior to Welding

Inspection Tasks Prior to Welding	AWS D1.1/D1.1M References*
Welding procedure specifications (WPSs) available	6.3
Manufacturer certifications for welding consumables available	6.2
Material identification (type/grade)	6.2
Welder identification system	6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
Fit-up of groove welds (including joint geometry) • Joint preparation • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location) • Backing type and fit (if applicable)	6.5.2 5.22 5.15 5.18 5.10, 5.22.1.1
Configuration and finish of access holes	6.5.2, 5.17 (also see Section J1.6)
Fit-up of fillet welds • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)	5.22.1 5.15 5.18
Check welding equipment	6.2, 5.11

*AWS (2010)

TABLE C-N5.4-2
Inspection Tasks During Welding

Inspection Tasks During Welding	AWS D1.1/D1.1M References*
Use of qualified welders	6.4
Control and handling of welding consumables • Packaging • Exposure control	6.2 5.3.1 5.3.2 (for SMAW), 5.3.3 (for SAW)
No welding over cracked tack welds	5.18
Environmental conditions • Wind speed within limits • Precipitation and temperature	5.12.1 5.12.2
WPS followed • Settings on welding equipment • Travel speeed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min/max.) • Proper position (F, V, H, OH)	6.3.3, 6.5.2, 5.5, 5.21 5.6, 5.7
Welding techniques • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements	6.5.2, 6.5.3, 5.24 5.30.1

*AWS (2010)

TABLE C-N5.4-3
Inspection Tasks After Welding

Inspection Tasks After Welding	AWS D1.1/D1.1M References**
Welds cleaned	5.30.1
Size, length and location of welds	6.5.1
Welds meet visual acceptance criteria • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	6.5.3 Table 6.1(1) Table 6.1(2) Table 6.1(3) Table 6.1(4), 5.24 Table 6.1(6) Table 6.1(7) Table 6.1(8)
Arc strikes	5.29
k-area*	not addressed in AWS
Backing removed and weld tabs removed (if required)	5.10, 5.31
Repair activities	6.5.3, 5.26
Document acceptance or rejection of welded joint or member	6.5.4, 6.5.5

* *k*-area issues were identified in AISC (1997b). See Commentary Section A3.1c and Section J10.8.
** AWS (2010)

Table 6.1
Visual Inspection Acceptance Criteria[1] (see 6.9)

Discontinuity Category and Inspection Criteria	Statically Loaded Nontubular Connections	Cyclically Loaded Nontubular Connections	Tubular Connections (All Loads)
(1) Crack Prohibition Any crack is unacceptable, regardless of size or location.	X	X	X
(2) Weld/Base-Metal Fusion Thorough fusion shall exist between adjacent layers of weld metal and between weld metal and base metal.	X	X	X
(3) Crater Cross Section All craters shall be filled to provide the specified weld size, except for the ends of intermittent fillet welds outside of their effective length.	X	X	X
(4) Weld Profiles Weld profiles shall be in conformance with 5.24.	X	X	X
(5) Time of Inspection Visual inspection of welds in all steels may begin immediately after the completed welds have cooled to ambient temperature. Acceptance criteria for ASTM A 514, A 517, and A 709 Grade 100 and 100 W steels shall be based on visual inspection performed not less than 48 hours after completion of the weld.	X	X	X
(6) Undersized Welds The size of a fillet weld in any continuous weld may be less than the specified nominal size (L_s) without correction by the following amounts (U_s): L_s specified nominal weld size, in. (mm) — U_s allowable decrease from L_s in. (mm) ≤ 5/16 (8) — ≤ 1/16 (2) 1/4 (6) — ≤ 3/32 (2.5) ≥ 5/16 (8) — ≤ 1/8 (3) In all cases, the undersize portion of the shall not exceed 10% of the weld length. On web-to-flange welds on girders, no undertrun is permitted at the ends for a length equal to twice the width of the flange.	X	X	X
(7) Undercut (A) For material less than 1 in. (25 mm) thick, undercut shall not exceed 1/32 in. (1 mm), except that a maximum 1/16 in. (2 mm) is permitted for an accumulated length of 2 in. (50 mm) in any 12 in. (300 mm). For material equal to or greater than 1 in. thick, undercut shall not exceed 1/16 in. (2 mm) for any length of weld.	X		
(B) In primary members, undercut shall be no more than 0.01 in. (0.25 mm) deep when the weld is transverse to tensile stress under any design loading condition. Undercut shall be no more than 1/32 in. (1 mm) deep for all other cases.		X	X
(8) Porosity (A) Complete joint penetration groove welds in butt joints transverse to the direction of computed tensile stress shall have no visible piping porosity. For all other groove welds and for fillet welds, the sum of the visible piping porosity 1/32 in. (1 mm) or greater in diameter shall not exceed 3/8 in. (10 mm) in any linear inch of weld and shall not exceed 3/4 in. (20 mm) in any 12 in. (300 mm) length of weld.	X		
(B) The frequency of piping porosity in fillet welds shall not exceed one in each 4 in. (100 mm) of weld length and the maximum diameter shall not exceed 3/32 in. (2.5 mm). Exception: for fillet welds connecting stiffeners to web, the sum of the diameters of piping porosity shall not exceed 3/8 in. (10 mm) in any linear inch of weld and shall not exceed 3/4 in. (20 mm) in any 12 in. (300 mm) length of weld.		X	X
(C) Complete joint penetration groove welds in butt joints transverse to the direction of computed tensile stress shall have no piping porosity. For all other groove welds, the frequency of piping porosity shall not exceed one in 4 in. (100 mm) of length and the maximum diameter shall not exceed 3/32 in. (2.5 mm).		X	X

1. An "X" indicates applicability for the connection type; a shaded area indicates non-applicability.

Canopy Fabrication:

See revised Gold Gate Structural Sheets S-1, S-2 and S-3 with welding tables, dated 4.23.24.

- Table C-N5.41 Inspections Prior to Welding
- Table C-N5.4-2 Inspections Tasks During Welding
- Table C-N5.4-3 Inspections Tasks After Welding
- Table 6.1 Visual Inspection Acceptance Criteria
  - Under 3/16 Fillet Welds: 100% Visual Inspection, 20% Mag Particle Inspection
  - Penetration Welds over 3/16: 100% Ultrasonic testing

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PROJECT NAME/ADDRESS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

WASHINGTON STATE FAIR
GOLD GATE - CANOPY
110 9TH AVE SW
PUYALLUP, WA 98371

PROJECT NUMBER

DRAWING TYPE

PERMIT DOCUMENT

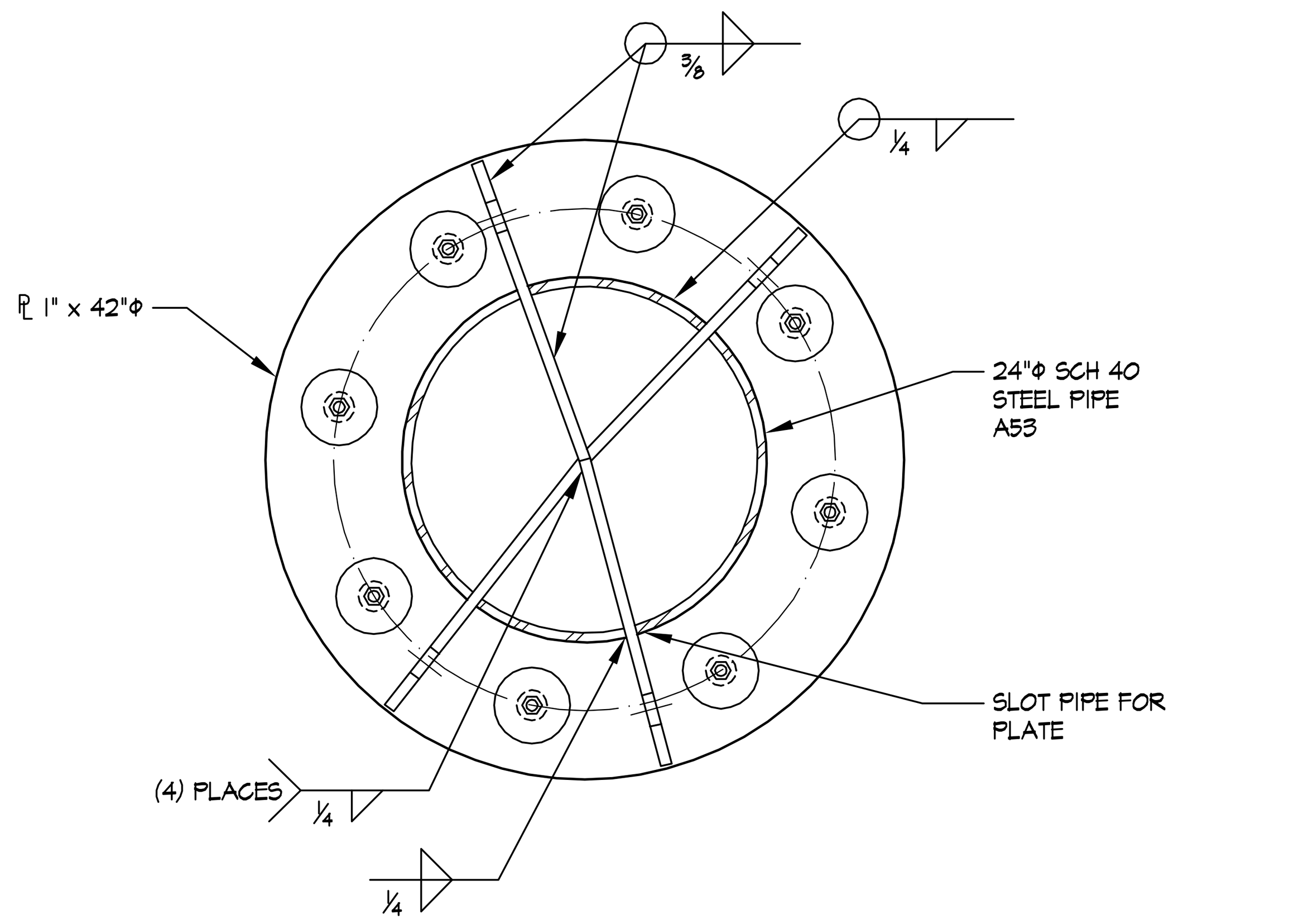
ISSUE DATE	ISSUE DESCRIP.	NO.
01.25.24	PERMIT	
03.27.24	REVISION	2
04.23.24	REVISION	3

SHEET TITLE

GENERAL NOTES

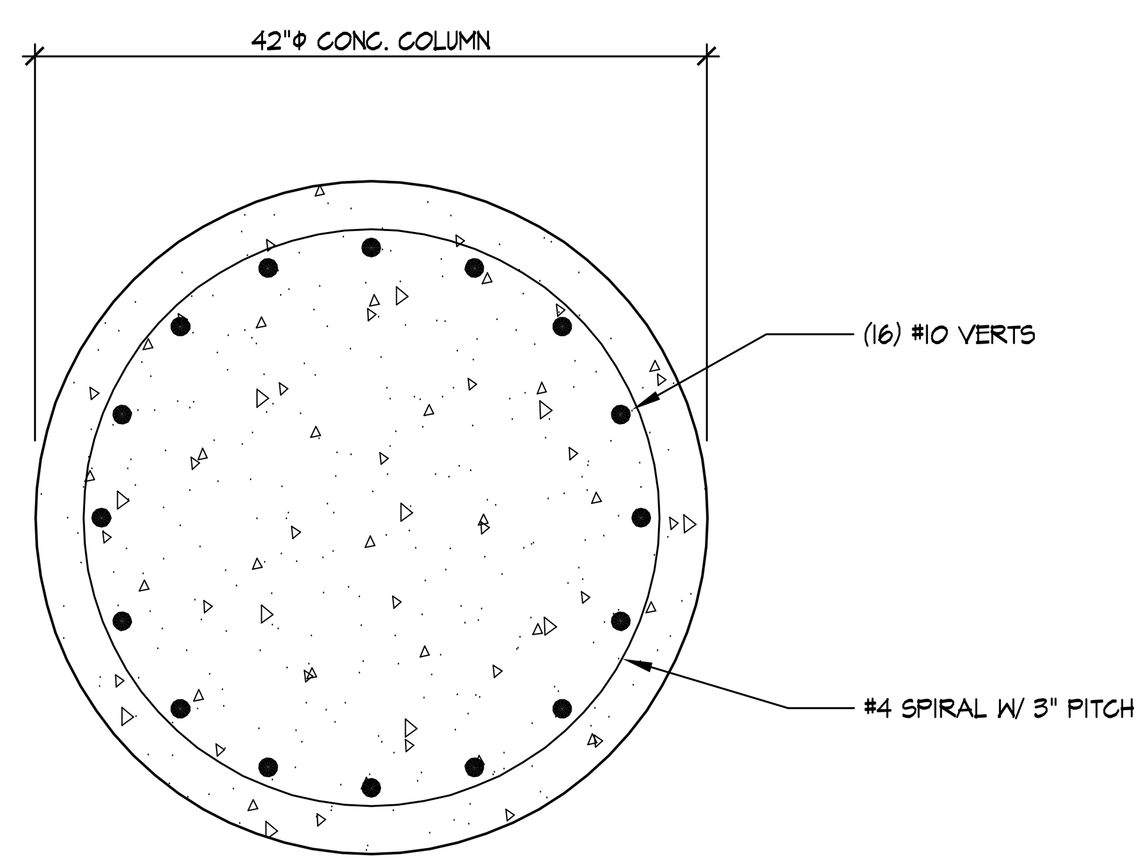
SHEET #

S2



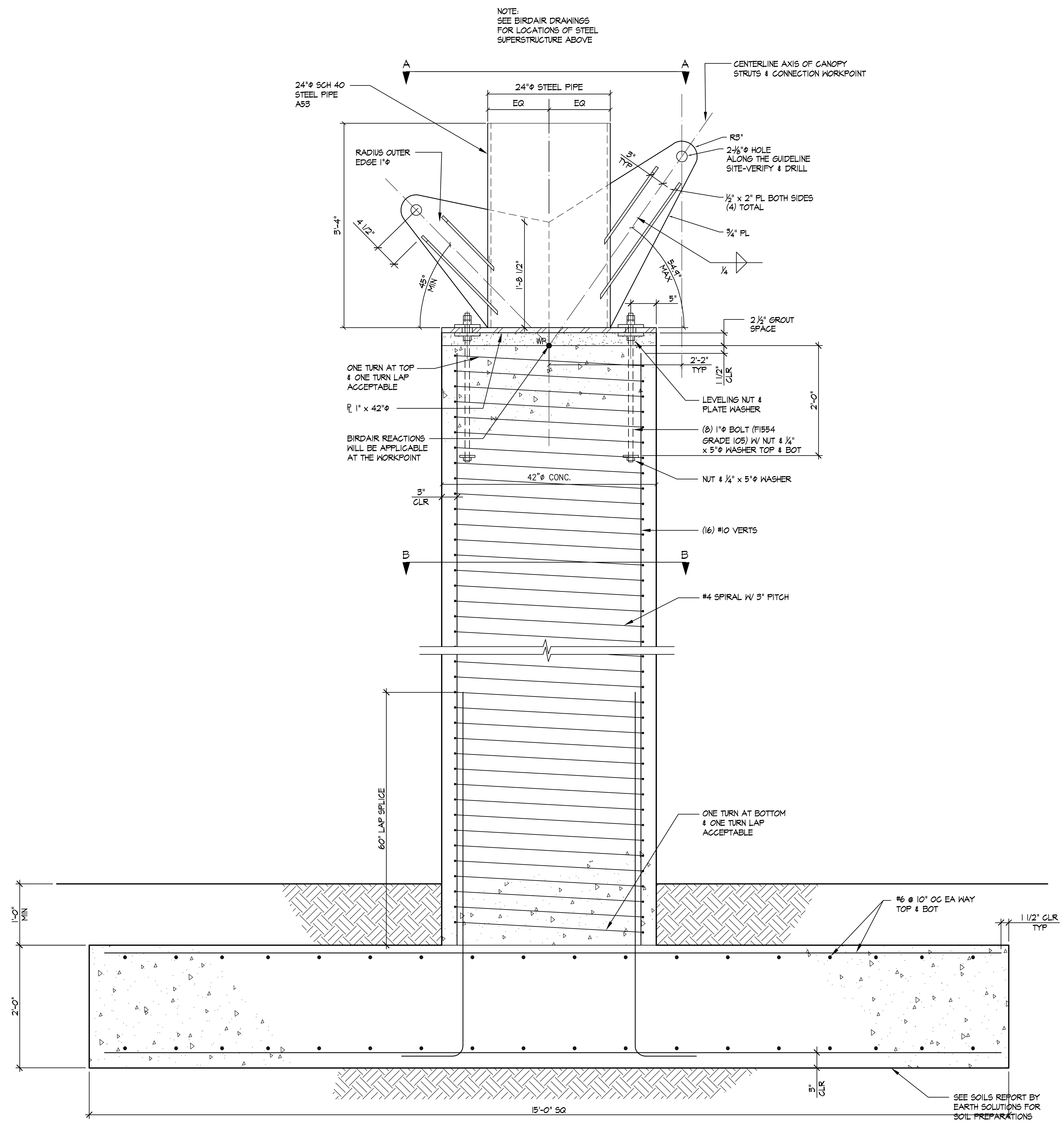
PLAN VIEW A-A

1" = 1'-0"



SECTION B-B

1" = 1'-0"



SIDE VIEW

1" = 1'-0"

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Building	Planning
Engineering	Public Works
Fire	Traffic

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03.27.24	REVISION	2

SHEET TITLE

COLUMN DETAILS

SHEET #

S3

1 CANOPY LIGHTING PLAN
1/8" = 1'-0"

PLAN NORTH

CONTROL NOTES:

1. GENERAL LIGHTING FOR CANOPY SHALL BE CONTROL BY ASTRONOMICAL CLOCK. FOR AFTER HOUR LIGHTING WILL DIM DOWN TO LEVEL DETERMINED BY OWNER.

2. THEME LIGHTING SHALL BE CONTROLLED BY ASTRONOMICAL CLOCK AND SCENCE CONTROLLER.

Lighting Fixture Schedule

ID	Fixture Description	Apparent Load	Count
PL1	GENERAL LED LIGHTING	50 VA	30
TL1	RGB THEATRICAL LIGHTING	50 VA	32
TL2	RGB THEATRICAL LIGHTING	50 VA	16

0 4' 8' 16'
SCALE: 1/8" = 1'

DANARD ELECTRIC INC.
BUILDING A BETTER WORLD SINCE 1947 75 YEARS
18819 38TH AVE. E.
TACOMA, WA 98446
PH: (253) 875-8650 FAX: (253) 875-8649
COMMITTED TO BUILDING A BETTER WORLD
WWW.DANARDELECTRIC.COM

OWNER:
PUYALLUP FAIR

PROJECT ADDRESS:
133-299 9th Ave SE
PUYALLUP, WA 98372

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

No.	Description	Date	DB	CB
1	CITY PERMIT	11/10/23	KA	SD

GOLD GATE

CANOPY LIGHTING PLAN

Project number	TBD
Date	11/09/23
Drawn by	KA
Checked by	SD

E200

Scale 1/8" = 1'-0"

11/10/2023 2:36:14 PM

LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

Project & Applicant Information	**Project Title**	Gold Gate - 2018 WSEC	For Building Department Use: **Date: Nov 10, 2023**
	Project Address	110 9th Ave SW Puyallup, WA 98371	
	Applicant Name	Kevin Altena	
	Applicant Phone	253-380-0559	
	Applicant Email	kevina@danardelectric.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**		Entmt/Assembly, Other	**Building Cond. Floor Area**	5,000
General Project Types	New Building	**New Building or Addition Lighting Scope**	Exterior Lighting	**Alteration Lighting Scope**		**Project Cond. Floor Area**	5,000
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Lighting Project Description	General lighting for Fair entry						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior (Interior includes both interior & parking)**	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	New Building	Exterior Lighting			Not applicable to exterior	**COMPLIES**

Project Title	**Gold Gate - 2018 WSEC**	**Date**	**Nov 10, 2023**
Lighting Power Calculation	**NEW BUILDING - EXTERIOR LIGHTING**	**Compliance Verification**	**COMPLIES**
Exterior Lighting Zone	**ZONE 3**	**Base Site Allowance**	**500**

Exterior Tradable Lighting Power Allowance

Exterior Surface	Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Proposed Watts	Compliance Status
Building entrances and exits	Pedestrian entrances & exits			60	21	1,260		
					Base Site Allowance	500		
					Totals	1,760	1,500	COMPLIES

Proposed Tradable Lighting Power Density

Fixture Type	Fixture ID	Exterior Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (Wp.LF)	Total Watts Proposed (#F x WpF) or (LF x Wp.LF)
Individual Fixtures							
Pole-mounted	PL1	Building entrances and exits - Pedestrian entrances & exits	30	50			1,500
Exempt Fixtures							
Theme elements in theme / amusement park	TL2	Building entrances and exits - Pedestrian entrances & exits	16				
Theme elements in theme / amusement park	TL1	Building entrances and exits - Pedestrian entrances & exits	32				
						Proposed Total LPD	**1,500**

Lighting, Motor and Electrical Requirements List, pg 1 of 10

Project:
Gold Gate - 2018 WSEC
110 9th Ave SW
Puyallup, WA 98371

Date: 2023-11-10

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING SCOPE					
	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.		
LIGHTING CONTROLS					
YES	C405.2	Lighting controls, general	For all lighting fixtures, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception taken	E200	
	C405.2, Option 2	Luminaire level lighting controls (LLLC)	Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; provide description of control capabilities and performance parameters		
	C405.2.5, Item 3 C405.2.1.1 C405.2.3.1	Lighting in dwelling units (dormitory, hotel and all other than multif/amily)	Indicate method of automatic control of all installed luminaires in dwelling units in buildings other than multif/amily (occupancy or light reduction controls)		
	C405.2.5, Item 2	Lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or key card control); also refer to Receptacles		
YES	C405.2.3 C405.2.3.1 C405.2.5	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves	E200	
NA	C405.2.3.1 C405.2.1.1 C405.2.4	Manual interior light reduction controls	Indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception		
YES	C405.2.1 C405.2.2.1 C405.2.1, Exception 3	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor, time switch or digital timer switch) for all lighting zones	E200	
NA	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied		
NA	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power		

Lighting, Motor and Electrical Requirements List, pg 2 of 10

NA	C405.2.1.2	Occupant sensor controls - warehouses spaces	Indicate each aisleway and corridor within a warehouse space are designated as separate zones that are independently controlled	
NA			Indicate occupant sensors are configured to automatically reduce lighting power by 50% when the zone is unoccupied and 100% off after the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupied	
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate general lighting is provided with vacancy controls that reduce lighting power by not less than 80% and are configured to turn luminaires 100% off when the space is unoccupied; indicate that no individual control zone area exceeds 600 sf	
	C405.2.1.4	Occupant sensor controls - parking garages	Indicate parking garage general lighting is provided with vacancy controls that reduce lighting power by not less than 30% and are configured to turn luminaires 100% off when no vehicles or pedestrians are present, unless eligible for an exception; indicate that no individual control zone area exceeds 3,600 sf	
NA	C405.2.1.5	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with vacancy controls that reduce lighting power by not less than 50% when the stairway in unoccupied	
YES	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls turn luminaires 100% off during unoccupied hours	E200
YES			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power	E200
			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceeds 5,000 sf	E200
NA	C405.2.1, Exception 3	Digital timer switch	Indicate digital timer switch control includes: manual on/off, time delay, audible and visual indication of impending time-out	
NA	C405.2.4.2 C405.2.4.3	Daylight zones - Sidelit and toplit	Indicate primary and secondary sidelit daylight zone floor areas on plans	
NA			Indicate toplit daylight zone floor areas on plans	
NA			For small vertical fenestration assemblies (rough opening less than 10 percent of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s)	

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NA	C405.2.4	Daylight responsive controls	Indicate on plans lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceeds 2,500 sf	
NA			Identify sidelit and toplit daylight zones that are not provided with daylight sensing controls and the exception(s) that apply	
NA	C405.2.4.1.1	Daylight responsive controls	Indicate on plans the lighting load reduction method (continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power)	
NA	C405.2.4.1	Daylight responsive controls	Indicate that daylight sensing controls are configured to completely shut off all controlled lights in the lighting zone	
NA	C405.2.5	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section	
NA	C405.2.5, Item 1	Display and accent lighting	Indicate on plans that manual controls are provided that control display, accent lighting and display case lighting independently from both general area lighting and other lighting applications within the same space	
NA			Indicate manual and automatic (occupant sensor or time switch) lighting control methods	
	C405.2.5, Item 3	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest room	
NA	C405.2.5, Item 1	Supplemental task lighting	Indicate method and location of manual and automatic shut-off control (occupant sensor or time switch) for supplemental task lighting, including under-shelf or under-cabinet lighting	
NA	C405.2.5, Item 1	Lighting equipment for sale or demonstration	Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space	
NA			Indicate manual and automatic (occupant sensor or time switch) lighting control methods	
NA	C405.2.5, Item 4	Lighting for non-visual applications	Identify all eligible non-visual lighting applications on plans; indicate that the area served by each control device does not exceeds 4,000 sf	
NA			Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications within the same space	

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NA			Indicate method of manual lighting control and applicable automatic lighting control		
YES	C405.2.5, Item 5	Means of egress lighting	Identify on plans egress fixtures that function as both normal and emergency means of egress illumination	E200	
YES			Provide calculation of lighting power density of total egress lighting	E200	
YES			If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during unoccupied periods	E200	
YES			Indicate method of automatic shut-off control	E200	
YES	C405.4.1 C405.4.2	Lighting control of exempt interior lighting	Indicate that exempt interior lighting equipment and lighting located within spaces that are eligible for a lighting power exemption are controlled independently from non-exempt and general area lighting	E200	
	C405.2.6	Exterior lighting controls	For decorative exterior lighting, indicate on plans automatic daylight shut-off controls, or exception taken		
			For exterior lighting that is not decorative, indicate on plans automatic daylight or time-switch shut-off controls and setback controls; or indicate exception taken		
			For lighting requiring setback controls, include control sequence that reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor		
			For building facade and landscape lighting, indicate control sequence for shut-off control is based on dawn-to-dusk and business opening/closing schedule; indicate whether automatic or time switch controls will be provided for this function		
	C405.5.2	Lighting control of exempt exterior lighting	Indicate that exempt exterior lighting and lighting located within exterior areas/surfaces that eligible for a lighting power exemption are controlled independently from non-exempt exterior lighting		
	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light		
YES	C405.2.7	Area controls - Master control switches and circuit power limit	Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch	E200	
YES			Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond 80%	E200	
ADDITIONAL EFFICIENCY CREDIT - ENHANCED INTERIOR LIGHTING CONTROLS					

Lighting, Motor and Electrical Requirements List, pg 5 of 10

	C406.4	Enhanced digital lighting controls	To comply with additional efficiency credit, indicate on plans that interior lighting fixtures are configured with all of the following control functions, as applicable: 1) Each fixture is individually addressed, or exception taken; 2) Fixtures are configured for continuous dimming; 3) No more than eight fixtures are controlled by a single daylight sensor; 4) In enclosed and open office areas, illumination levels of overhead general area lighting is configured to be individually adjusted by occupants		
			Include calculations that demonstrate the total lighting power of all interior lighting fixtures configured with enhanced lighting controls is no less than 90% of the total interior lighting power for the area the enhanced lighting controls credit is being applied to		
INTERIOR LIGHTING POWER & EFFICACY					
YES	C405.4.1 C405.4.2	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp	E200	
YES			Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied	E200	
YES			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied	E200	
	C405.1 C405.1.1	Lighting in dwelling units (multifamily)	For all installed luminaires, include lamp type and number of lamps in lighting fixture schedule; for lamps that are not LED, T-8 or small diameter fluorescent, indicate efficacy of other lamp types is 65 lumens per watt or greater		
			For all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps		
			For all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps		
INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN					
NA	C405.4.2.1	Building Area Method	Demonstrate that total proposed wattage per building area does not exceed maximum allowed wattage per building area; identify locations of building areas on plans; provide WSEC exterior lighting compliance reports		

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YES	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide WSEC exterior lighting compliance reports	E200	
ADDITIONAL EFFICIENCY CREDITS - REDUCED INTERIOR LIGHTING POWER DENSITY					
YES	C406.3.1 C406.3.2	Reduced interior lighting power density	To comply with additional efficiency credit, demonstrate that total connected interior lighting wattage is 10% or 20% less than the total maximum allowed lighting wattage for the area the reduced lighting power credit is being applied to; indicate whether lighting power allowance is based on the building area method or space-by-space method; provide WSEC exterior lighting compliance reports	E200	
	C406.3	Reduced interior lighting power density - dwelling unit lamp efficacy	For project with dwelling units, to comply with additional efficiency credit indicate in lighting fixture schedule that lamps within installed interior luminaires have an efficacy rating of at least 65 lumens per watt; include number of lamps and provide calculations that demonstrate at least 95% of lamps have this efficacy rating		
EXTERIOR LIGHTING POWER & EFFICACY					
YES	C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp	E200, E205, E206	
YES			Identify exterior applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate exception applied	E200, E205, E206	
YES	C405.5.3(1)	Exterior lighting zone	Indicate building exterior lighting zone as specified by the AHJ	E200, E205, E206	
YES	C405.5.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 50 watts, indicate rated lamp efficacy (in lumens per watt) in fixture schedule	E200, E205, E206	
EXTERIOR LIGHTING POWER CALCULATION					
YES	C405.5.3	Tradable allowances	Demonstrate that total proposed tradable surface wattage does not exceed maximum allowed tradable surface wattage (including base site allowance); identify locations of tradable surfaces on plans; provide WSEC exterior lighting compliance reports	E200, E205, E206	

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NA			Demonstrate that proposed wattage per non-tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable surfaces on plans; provide WSEC exterior lighting compliance reports		
LIGHTING ALTERATIONS					
	C503.6.1	Interior and parking garage lighting fixture alterations	Where ≥ 50% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path		
			Where < 50% of existing luminaires in an interior space or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed total lighting wattage in alteration area does not exceed total existing lighting wattage prior to alteration		
			Where ≥ 50% of existing exterior lighting wattage is replaced; include all new and existing-to-remain luminaires in WSEC exterior lighting compliance reports; indicate proposed total exterior lighting wattage does not exceed maximum allowed		
			Where < 50% of existing exterior lighting wattage is replaced; indicate total existing lighting wattage prior to alteration; include all new and existing-to-remain luminaires in WSEC interior exterior compliance reports; indicate proposed total exterior lighting wattage does not exceed total existing wattage prior to alteration		
	C503.6.2	Interior lighting wiring and circuiting alterations	Where new wiring is installed to serve new interior luminaires and for luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual (C405.2.3); occupancy sensor (C405.2.1); light reduction (C405.2.3); daylight responsive (C405.2.4); specific application (C405.2.5)		
			Where new wiring is installed to serve new exterior luminaires and for luminaires are relocated to a new circuit; indicate automatic lighting controls are provided (C405.2.6)		

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OWNER:
PUYALLUP FAIR

PROJECT ADDRESS:
133-299 9th Ave SE
PUYALLUP, WA 98372

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

No.	Description	Date	DB	CB
1	CITY PERMIT	11/10/23	KA	SD

GOLD GATE

WSEC LIGHTING SUMMARY

Project number	TBD
Date	11/10/23
Drawn by	KA
Checked by	SD

E205

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Lighting, Motor and Electrical Requirements List, pg 8 of 10

	C503.6.3	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements apply			
	C503.6.4	Newly-created rooms	Where interior space(s) is reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate all applicable lighting controls requirements apply			
	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattage			
	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2)			
			Indicate compliance method (building area or space-by-space); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path			
RECEPTACLES						
	C405.10	Controlled receptacles	Identify all controlled and uncontrolled receptacles on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc			
			Provide schedule that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, private offices, open office areas, conference rooms, copy rooms, break rooms and modular partitions/workstations			
			Indicate on plans the method of automatic control for each controlled receptacle zone (occupant sensor or programmable time-of-day control); indicate that each zone served by a single controller does not exceed 5,000 sf			
	C405.2.5, Item 2	Switched receptacles in sleeping units	Indicate method of automatic off control of all switched receptacles in sleeping units (vacancy or key card control)			
	C503.6.6	Electrical receptacle alterations	Where new receptacles are added or replaced within an alteration project that is 5,000 sf or larger, indicate receptacles are provided with automatic controls per C405.10, or exception taken			
MOTORS, TRANSFORMERS, ELECTRIC METERS, INTERIOR TRANSPORTATION						

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	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken			
NA	C405.11	Feeders and branch circuits	**Provide documentation that demonstrates maximum voltage drop across feeders and branch circuits does not exceed 5%**			
	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter			
	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied			
	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt			
			For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm			
			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more			
	C405.9.2	Escalators and moving walks	Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use			
	C405.9.3	Regenerative drive	Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive			
DOCUMENTATION AND SYSTEM REQUIREMENTS TO SUPPORT COMMISSIONING (CX)						
	C408.4	Scope of electrical power and lighting systems commissioning	Indicate that all electrical systems (receptacles, transformers, motors, vertical and horizontal transportation) for which the WSEC requires control functions and / or configuration to perform specific functions are required to be commissioned			
			Where total building lighting load is > 20 kW, or where total lighting load of luminaires requiring daylight sensing and / or occupancy control > 10 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide building lighting power calculation demonstrating eligibility for exception			
	C405.13 C408.1.1 C408.1.2 C408.1.4.2 C103.6.3	Commissioning requirements in construction documents	Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems per C408			

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	C408.1.2 C408.1.2.1 C408.1.4 C103.6.3	Commissioning requirements in construction documents	Include general summary of Cx plan per C408.1.2 including: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation per C103.6; 4) Conflict of interest plan (if required)			
	C408.1.2 C408.1.4 C103.6.3	Commissioning requirements in construction documents	Include in general summary that a Cx project report and Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection			
NA	C408.4.1	Functional performance testing criteria	**Identify in plans and specifications the intended operation of all equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems**			
PROJECT CLOSE OUT DOCUMENTATION						
NA	C103.6.3	Project close out documentation requirements	**Indicate in plans that project close out documentation is required including WSEC lighting compliance reports that document all interior and exterior lighting area and / or surface types, lighting power allowances and installed densities**			
If "no" is selected for any question, provide explanation.						

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

No.	Description	Date	DB	CB
1	CITY PERMIT	11/10/23	KA	SD

GOLD GATE

WSEC LIGHTING CHECK LIST

Project number	TBD
Date	11/10/23
Drawn by	KA
Checked by	SD

E206

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