

LAKE HAVASU CATALYST PROJECT

100% CONSTRUCTION DOCUMENTS

TEAM INFORMATION:

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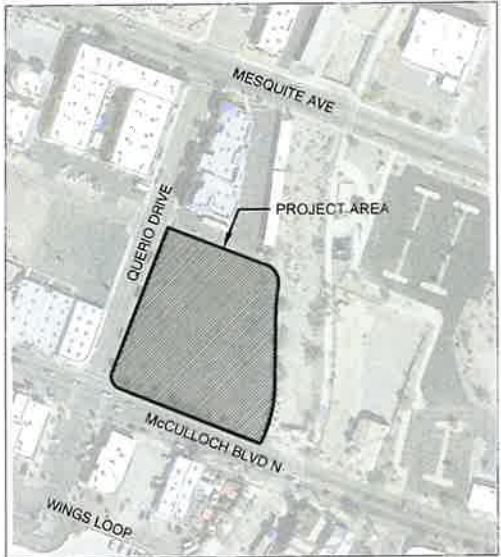
LAYOUT NOTES

1. VERIFY EXISTING SITE INFORMATION INCLUDING, BUT NOT LIMITED TO STREET GRADES, UTILITIES, PROPERTY LINES, LIMITS OF ROADWAYS, CURBS AND GUTTERS TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS.
2. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.
3. TAKE ALL DIMENSIONS FROM BACK OF CURB, FACE OF WALL OR BUILDING, AND CENTERLINE OF TREES UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS CALLED OUT AS 'EQUAL' ARE EQUIDISTANT MEASUREMENTS.
5. WRITTEN DIMENSIONS SUPERCEDE SCALED DIMENSIONS. DO NOT SCALE DRAWINGS, IF THERE IS A QUESTION REGARDING DIMENSIONS, CONTACT DIG STUDIO FOR VERIFICATION.
6. ALL ANGLES TO MATCH THOSE NOTED ON DRAWING AND ALL LINES OF PAVING TO BE PARALLEL UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON DRAWINGS.
7. REFERENCE TO NORTH REFERS TO TRUE NORTH. REFERENCE TO SCALE IS FOR FULL SIZED DRAWINGS ONLY. DO NOT SCALE FROM DRAWINGS.
8. CONCRETE SLABS OR FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS AND FOOTINGS WHERE SHOWN ON THE PLAN.
9. PROVIDE EXPANSION JOINTS IN CONCRETE PAVING A MAXIMUM DISTANCE OF 30' ON CENTER, EACH WAY, AND AT ALL INTERSECTIONS, WHERE NEW CONCRETE ABUTS EXISTING CONCRETE PAVING, BUILDINGS, CURBS, WALLS, AND COLUMNS UNLESS OTHERWISE NOTED.
10. PROVIDE CONTROL JOINTS EVENLY SPACED BETWEEN EXPANSION JOINTS AS SHOWN ON DRAWINGS, EXCEPT WHERE SPECIAL SCORE JOINT PATTERN IS SPECIFIED.
11. SLEEVES AND CONDUITS SHALL BE INSTALLED A MINIMUM OF 18 INCHES BELOW FINISHED GRADE AND SHALL EXTEND 12 INCHES BEYOND BACK OF CURBS, WALLS, AND PAVING.
12. COORDINATE AND FIELD VERIFY ALL SLEEVING LOCATIONS FOR ALL UTILITY, ELECTRICAL, AND IRRIGATION PRIOR TO CONSTRUCTION.
13. PROPOSED TREES IN THE RIGHT-OF-WAY SHALL BE PRE-APPROVED BY THE CITY FORESTERS OFFICE, OUTSIDE OF 33' CORNER SIGHT TRIANGLES AND 10' FROM EDGE OF DRIVEWAYS, ALLEYS AND HYDRANTS.

DEFERRED SUBMITTAL

1. PREFABRICATED CONTAINER RESTROOM - 40' DUAL GENDER WITH ACCESSIBLE FAMILY RESTROOM - FALCON STRUCTURES

VICINITY MAP: NTS



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BID ADDITIVE ALTERNATE NUMBER 2 EXHIBIT
(BID ADDITIVE ALTERNATE AREAS SHOWN ON C-9)

Dig

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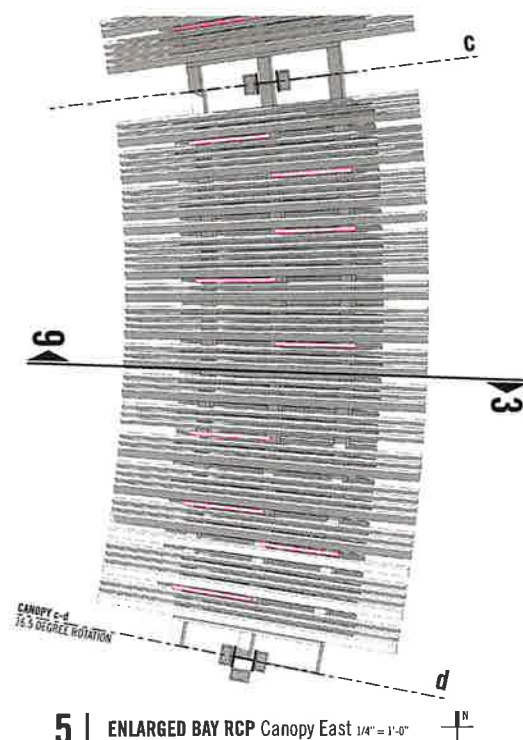
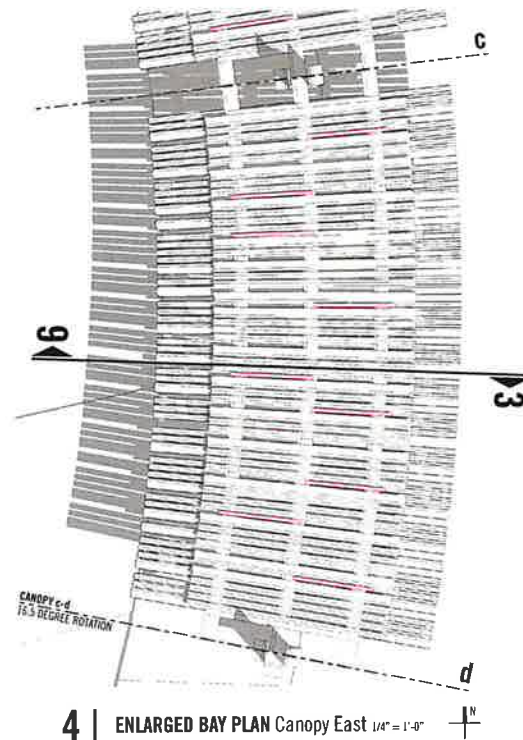
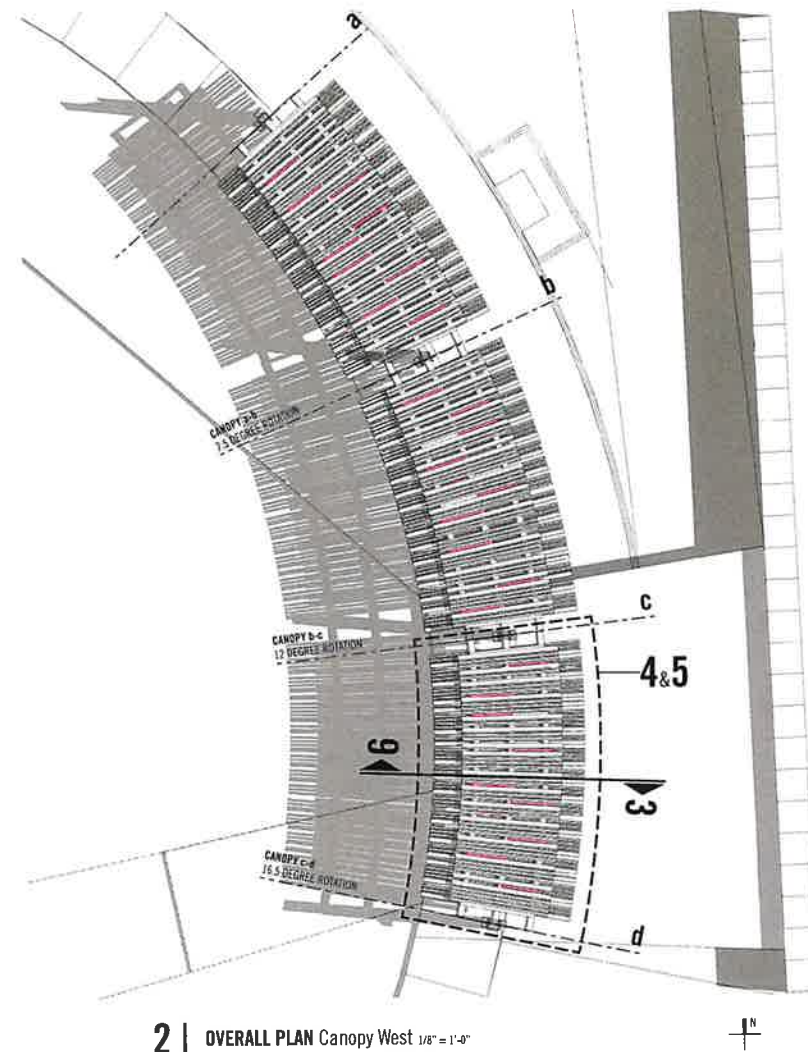
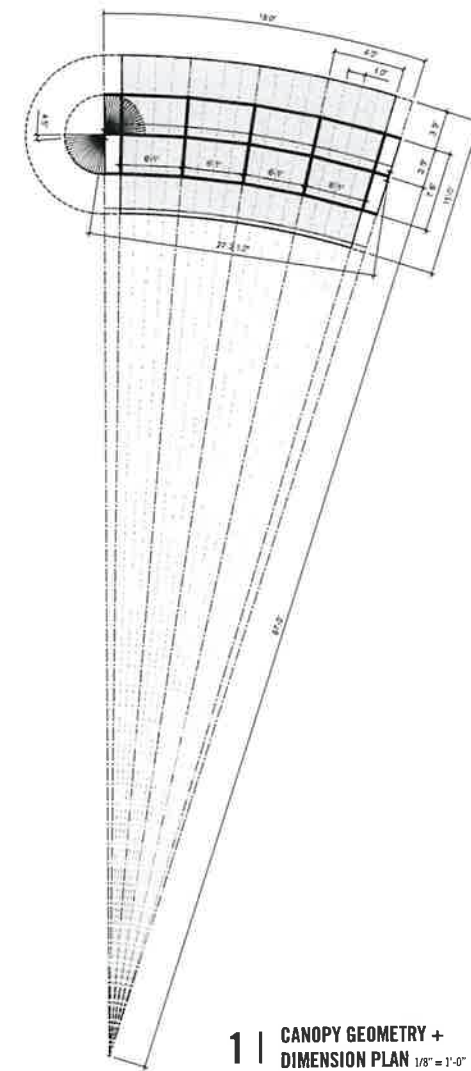
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DRAWN: JLPK/NPK
DESIGN: DIG
CHECKED: JH/CA
DATE: 6.19.2023

SHEET NO:
COVER SHEET

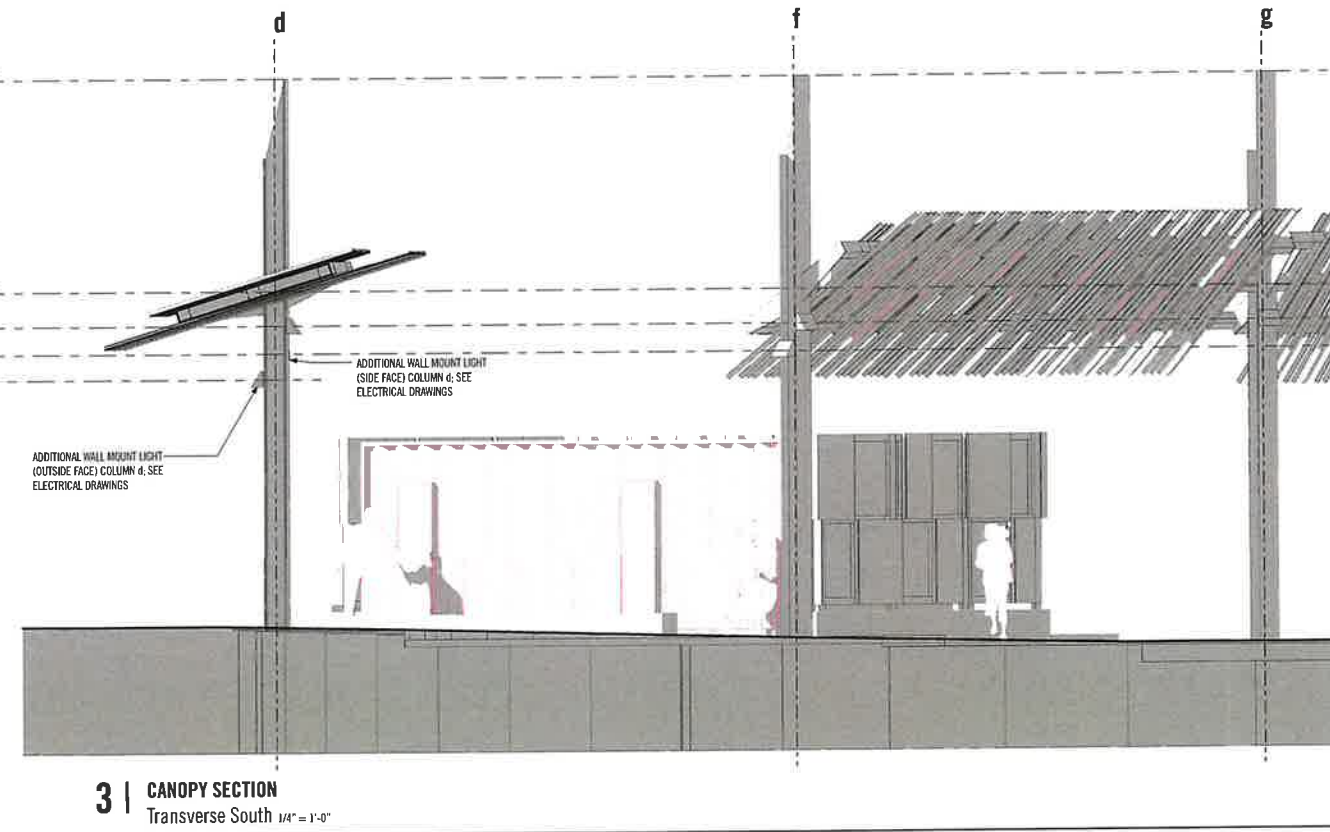
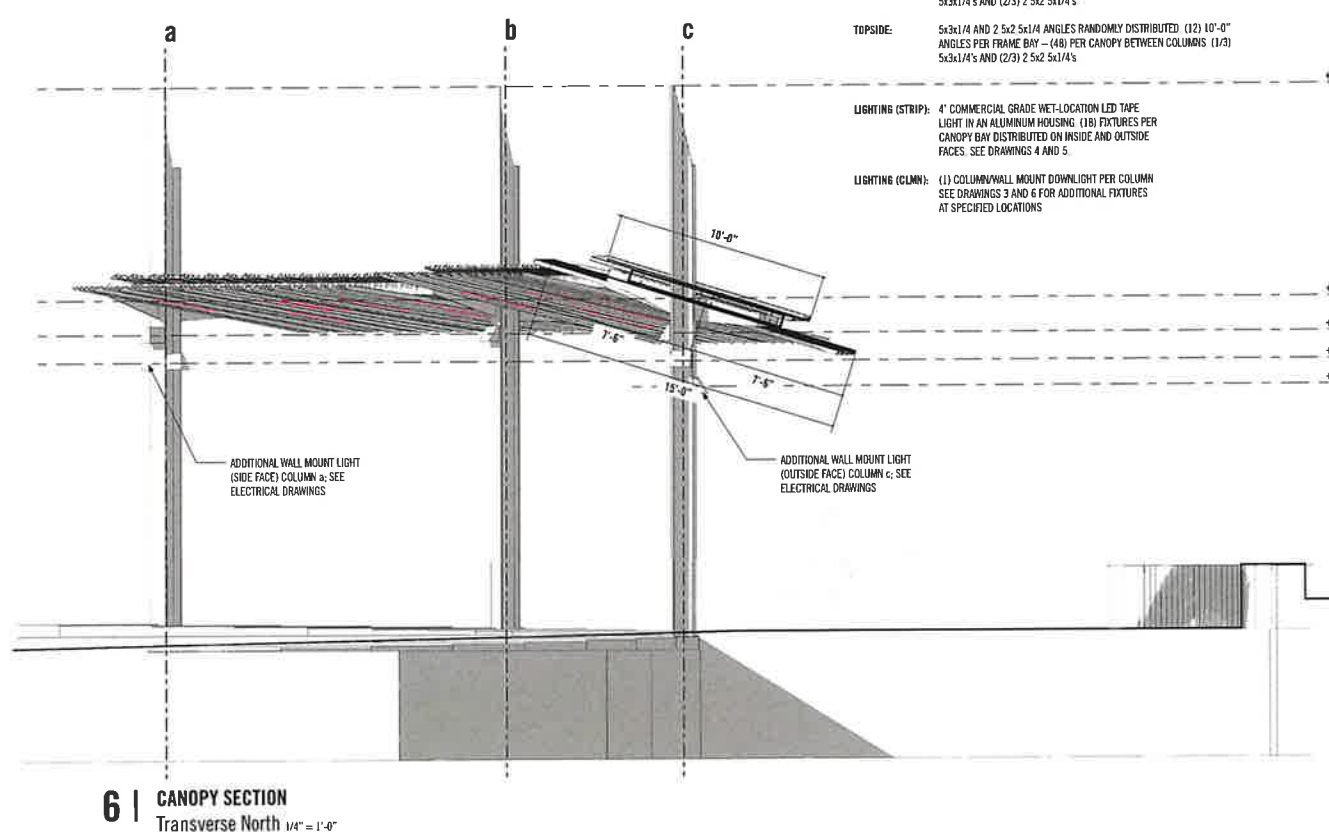
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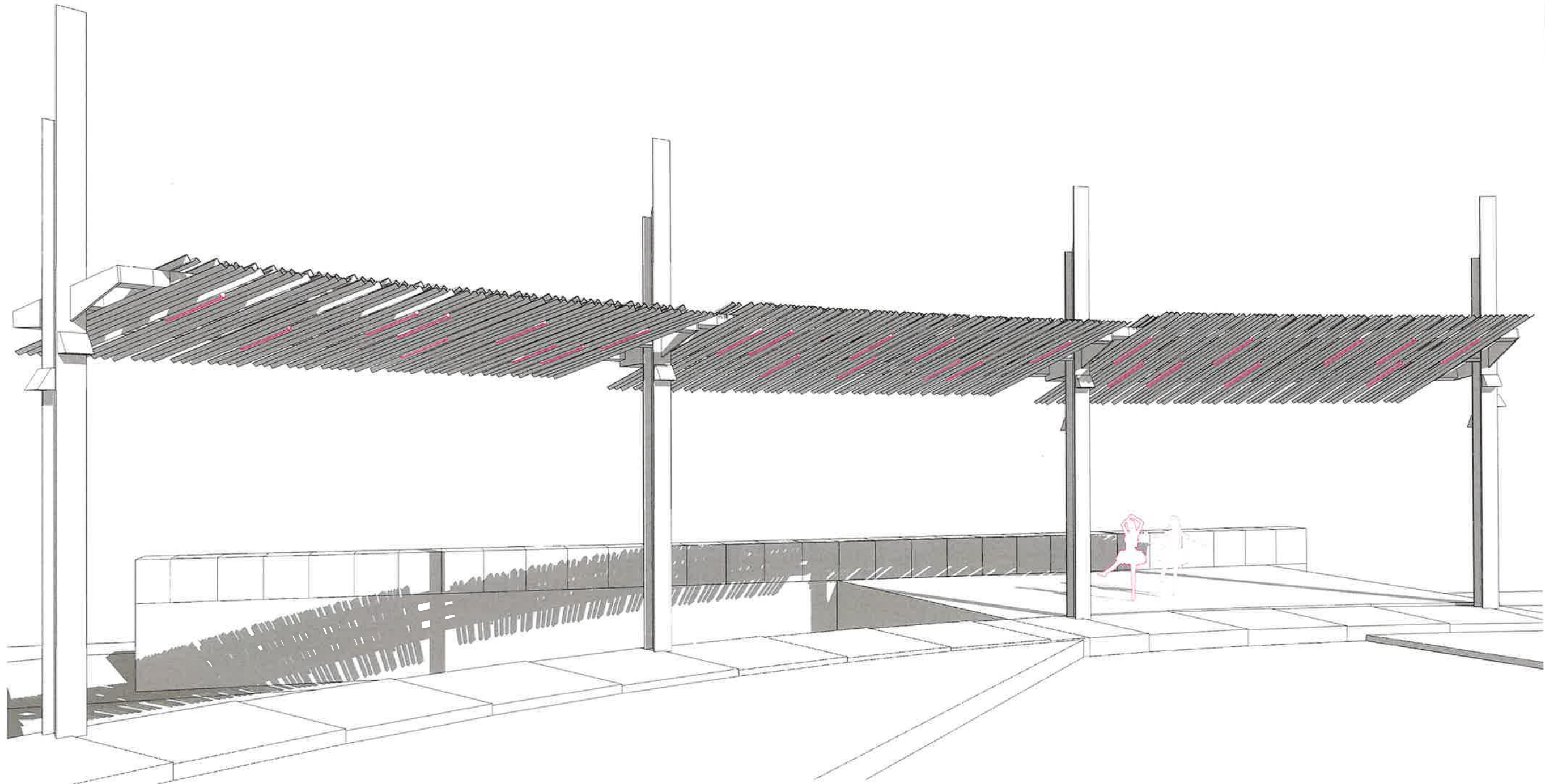


NOTES:
ANGLES: STEEL ANGLES - WELDED CONNECTIONS, 2-PART EPOXY PAINT
FRAME: HSS 7x7x1/4 WELDED STEEL FRAME - SEE DRAWING 1 FOR LAYOUT AND DIMENSIONS
UNDERSIDE: 5x3x1/4 AND 2 5x2 5x1/4 ANGLES RANDOMLY DISTRIBUTED: (12) 15'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS: (1/3) 5x3x1/4'S AND (2/3) 2 5x2 5x1/4'S
TOPSIDE: 5x3x1/4 AND 2 5x2 5x1/4 ANGLES RANDOMLY DISTRIBUTED: (12) 10'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS: (1/3) 5x3x1/4'S AND (2/3) 2 5x2 5x1/4'S

LIGHTING (STRIP): 4' COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING, (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 4 AND 5.

LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 3 AND 6 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS





1 | Perspective View East Canopy Looking Southeast from Inside Hub

NOTE: CANOPY LIGHTS SHOWN IN COLOR FOR DIAGRAMMATIC PURPOSES ONLY



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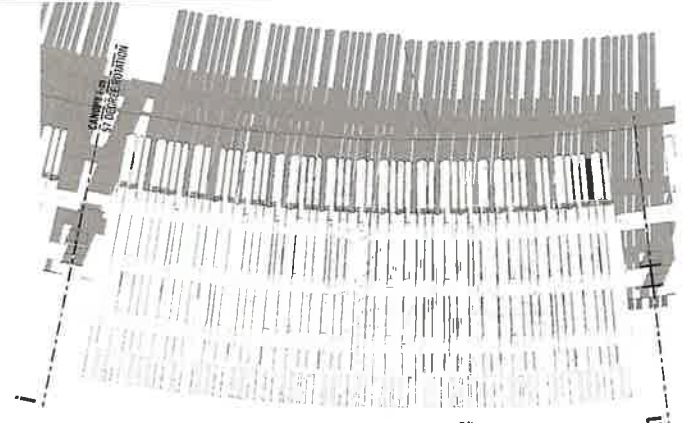


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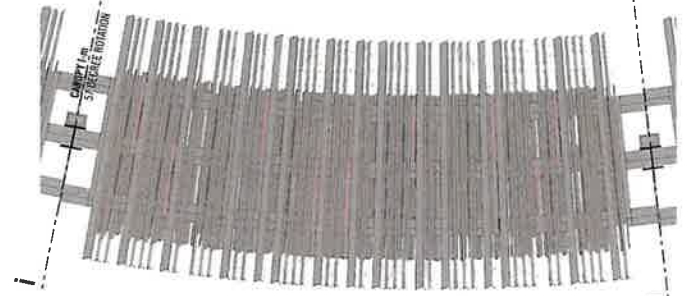
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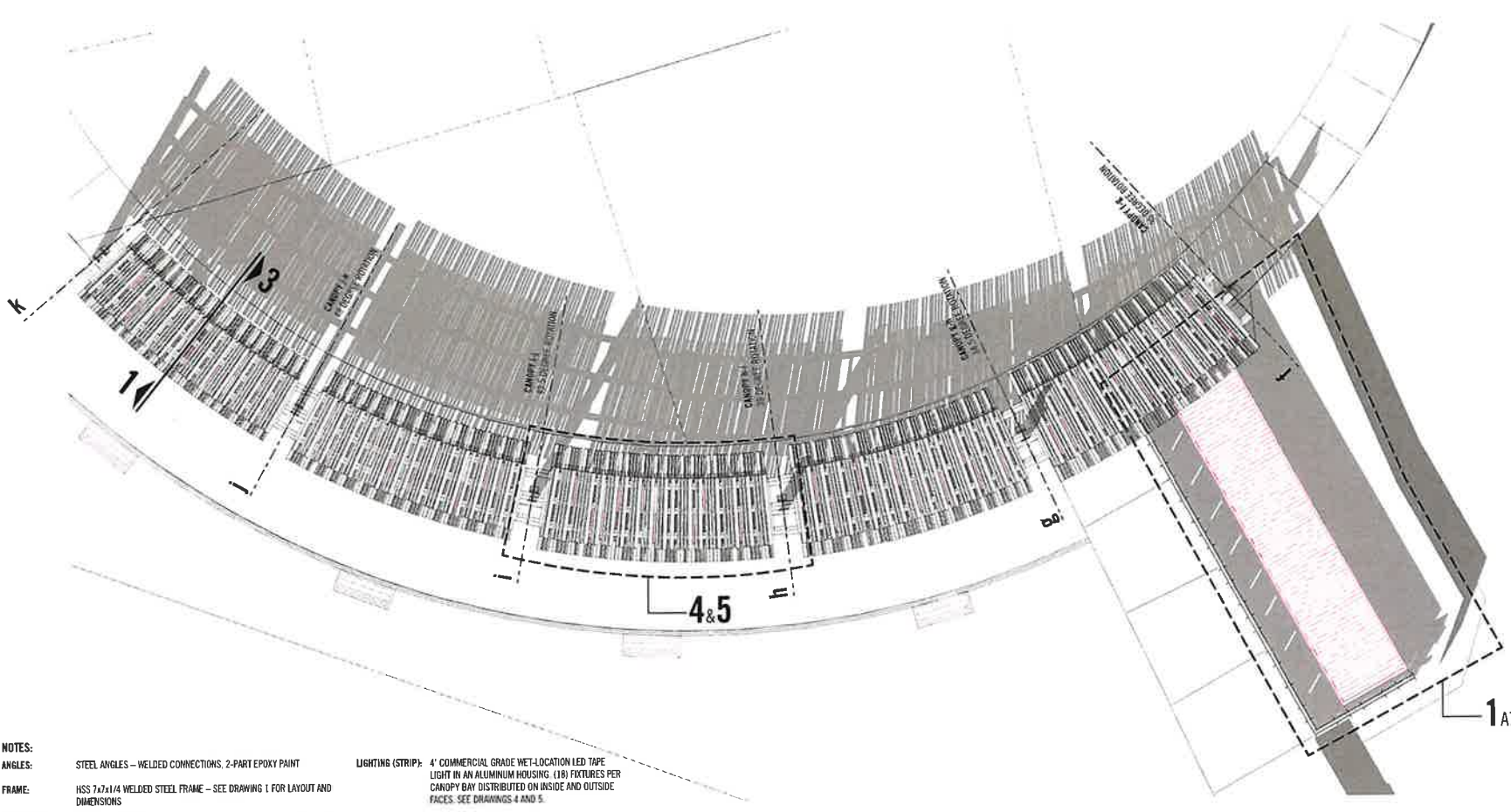
DRAWN: LAST Architects
DESIGN: LAST Architects
CHECKED: June 18, 2023
DATE: June 18, 2023
SHEET NO:
A2
EAST CANOPY
Perspective View



4 | ENLARGED BAY PLAN Canopy South 1/4" = 1'-0"

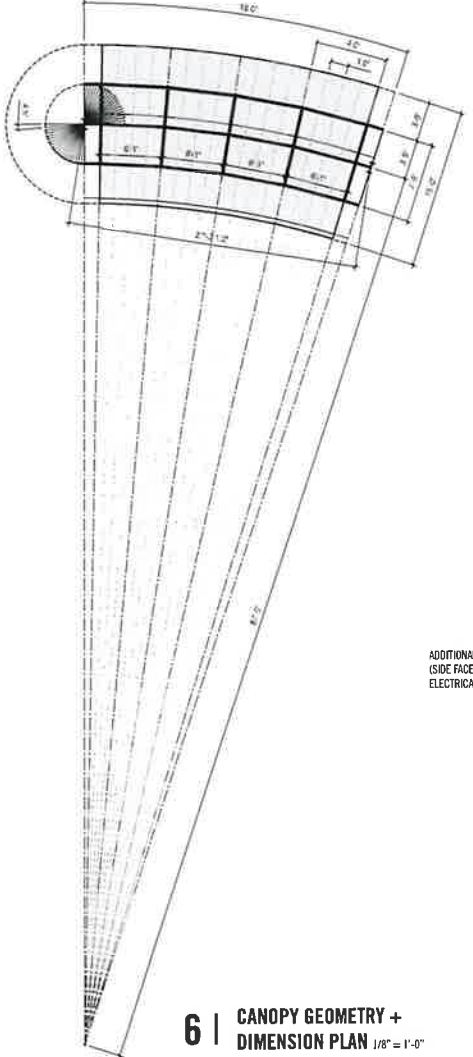


5 | ENLARGED BAY RCP Canopy South 1/4" = 1'-0"

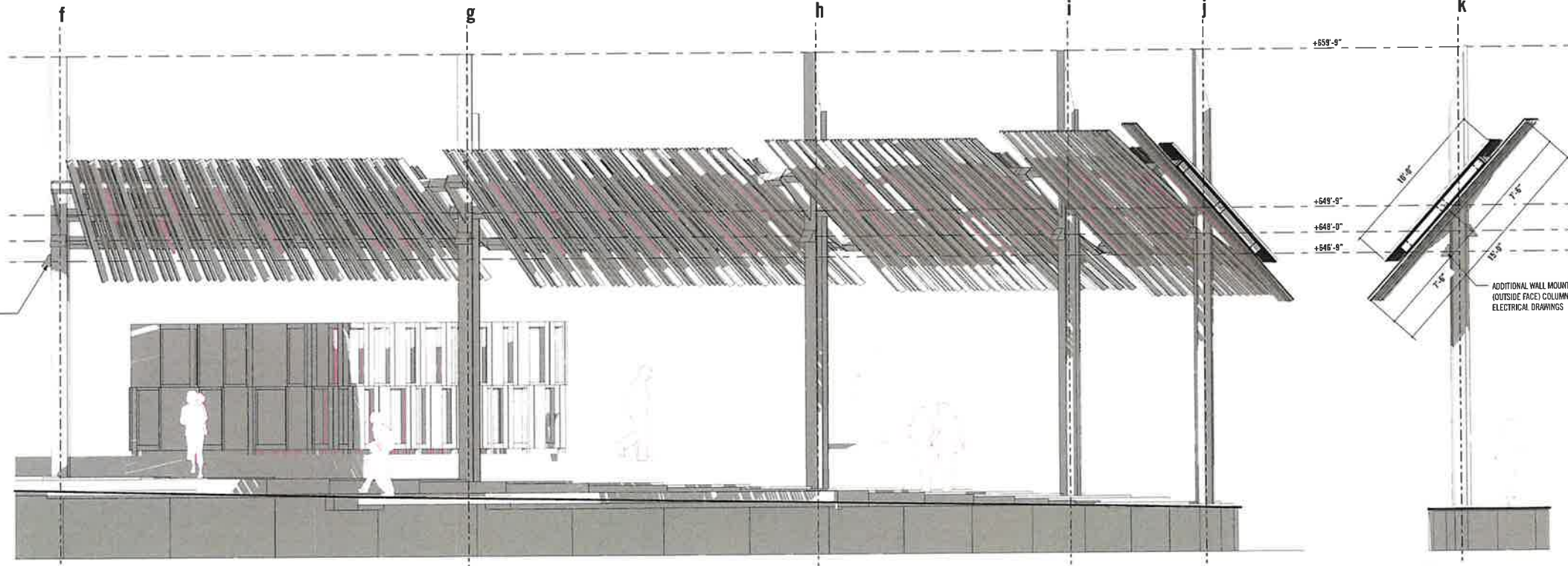


2 | OVERALL PLAN Canopy South 1/8" = 1'-0"

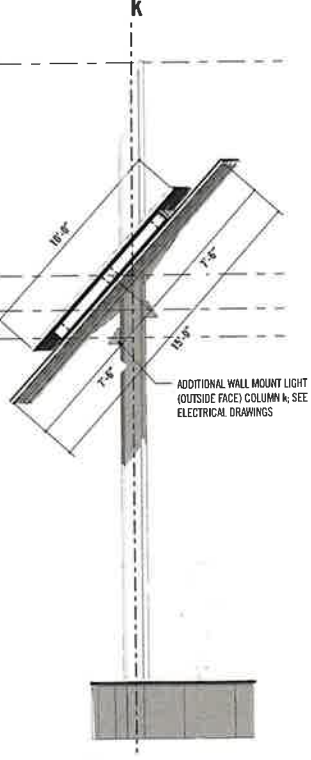
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LIGHTING (CLMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 1 AND 3 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS



6 | CANOPY GEOMETRY + DIMENSION PLAN 1/8" = 1'-0"



3 | CANOPY SECTION Transverse East 1/4" = 1'-0"



1 | CANOPY SECTION Transverse West 1/4" = 1'-0"



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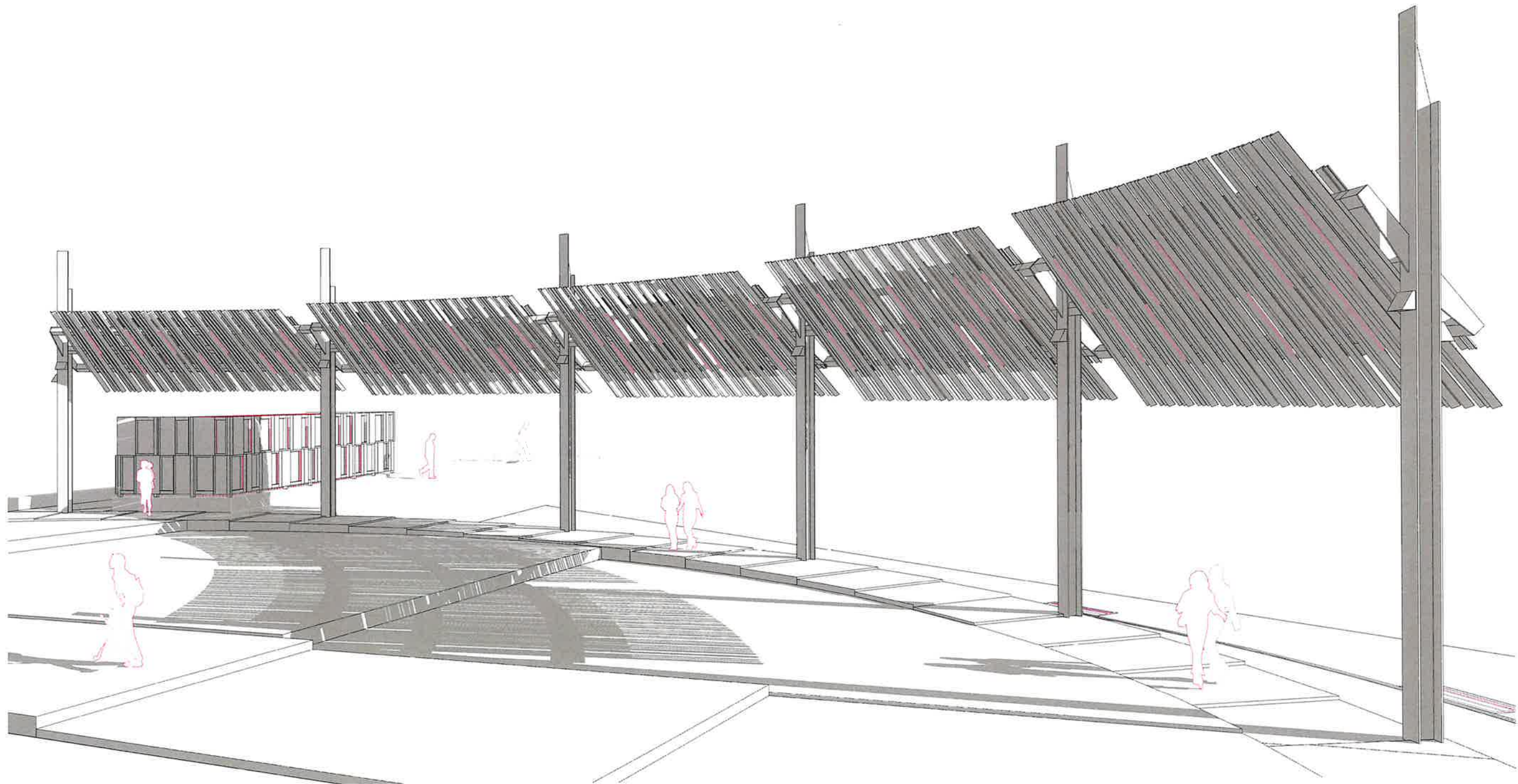


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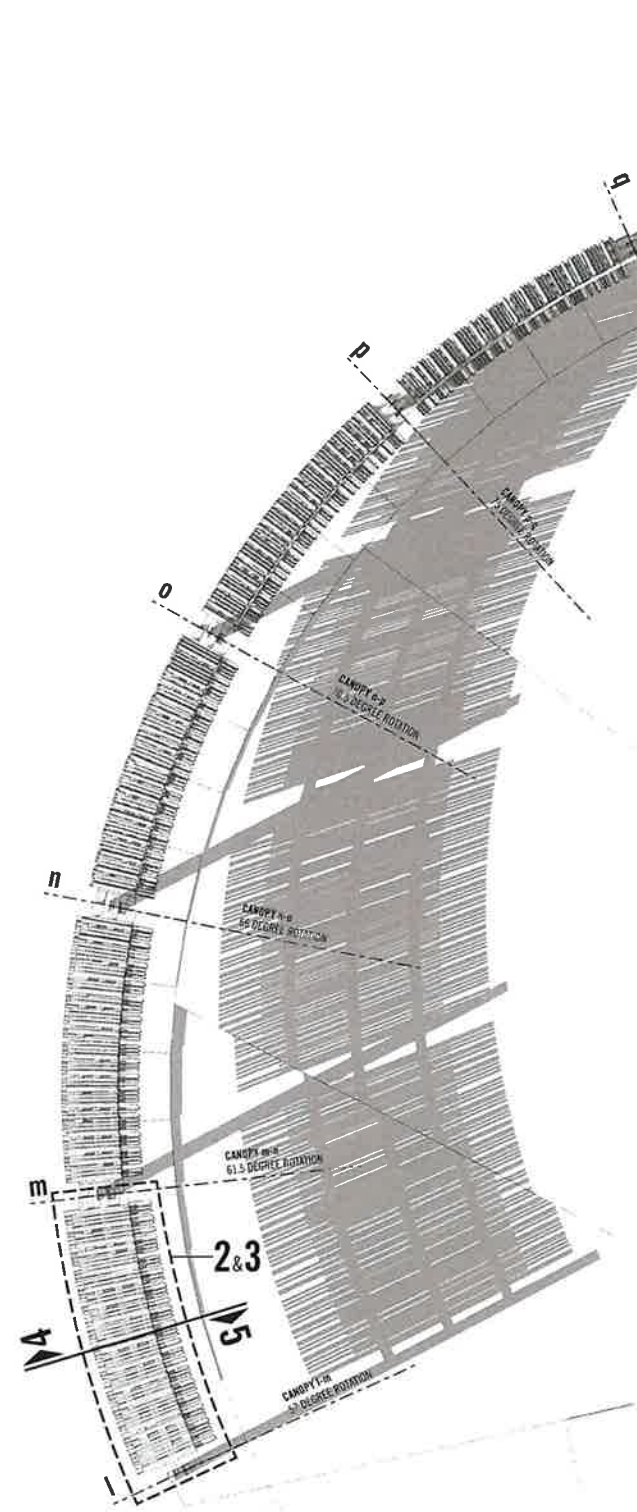
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DESIGN: LAST Architects
CHECKED: June 18, 2023
DATE: June 18, 2023
SHEET NO: A3
WEST CANOPY



1 | Perspective View South Canopy Looking Southeast from Inside Hub

NOTE: CANOPY LIGHTS SHOWN IN COLOR FOR DIAGRAMMATIC PURPOSES ONLY

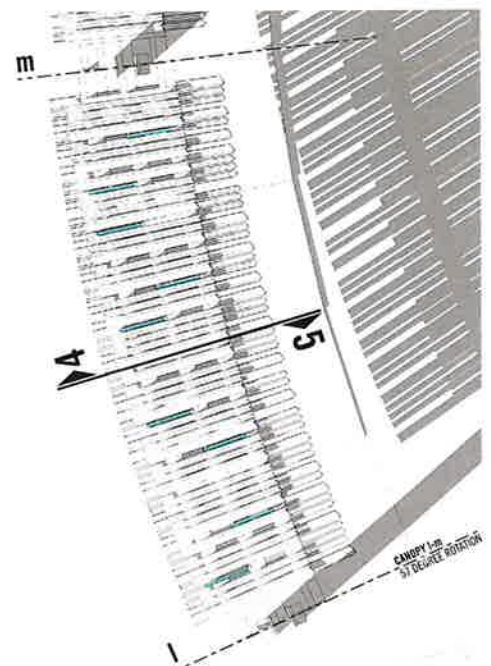
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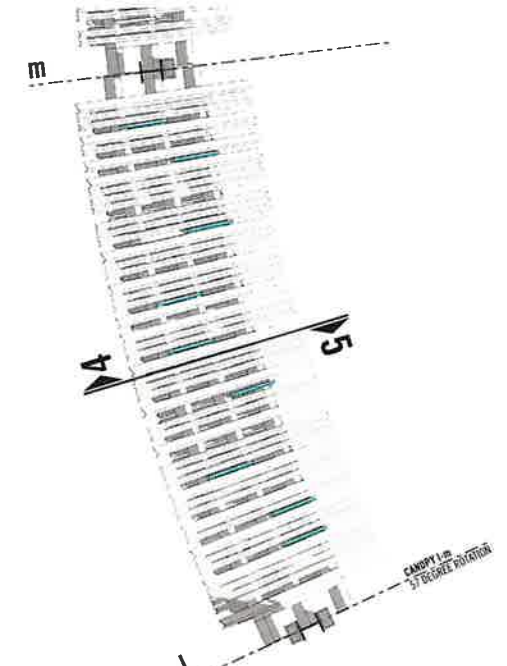
6 | OVERALL PLAN Canopy West 1/8" = 1'-0"

NOTES:
 ANGLES: STEEL ANGLES - WELDED CONNECTIONS, 2-PART EPOXY PAINT
 FRAME: HSS 7x7x1/4 WELDED STEEL FRAME - SEE DRAWING 1 FOR LAYOUT AND DIMENSIONS
 UNDERSIDE: 5x3x1/4 AND 2 5/2 5x1/4 ANGLES RANDOMLY DISTRIBUTED (12) 15'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4'S AND (2/3) 2 5/2 5x1/4'S
 TOPSIDE: 5x3x1/4 AND 2 5/2 5x1/4 ANGLES RANDOMLY DISTRIBUTED (12) 10'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4'S AND (2/3) 2 5/2 5x1/4'S

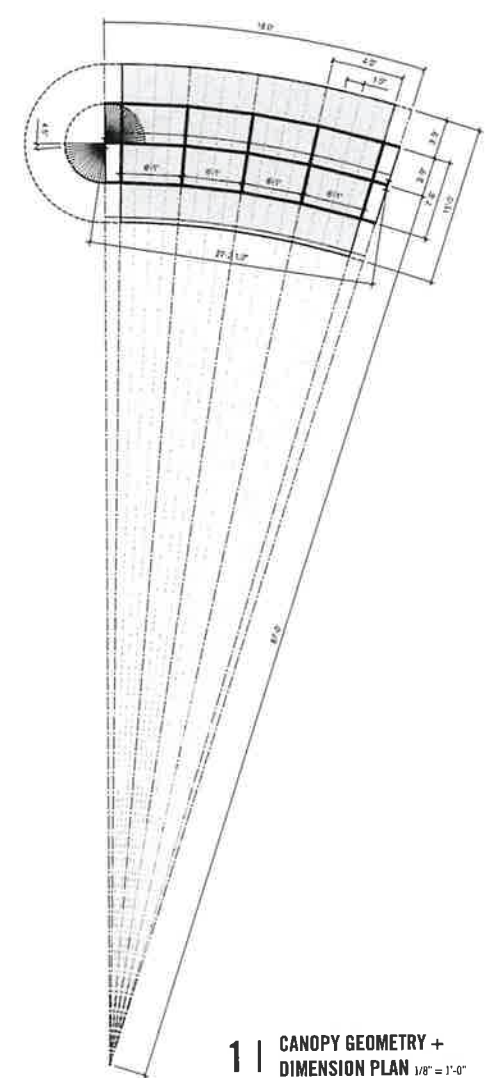
LIGHTING (STRIP): 4" COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 2 AND 3
 LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN. SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS



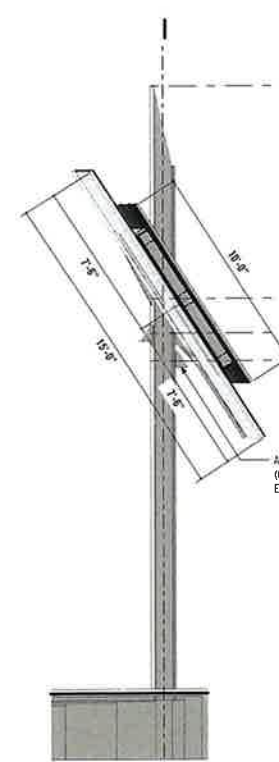
3 | ENLARGED BAY PLAN Canopy West 1/4" = 1'-0"



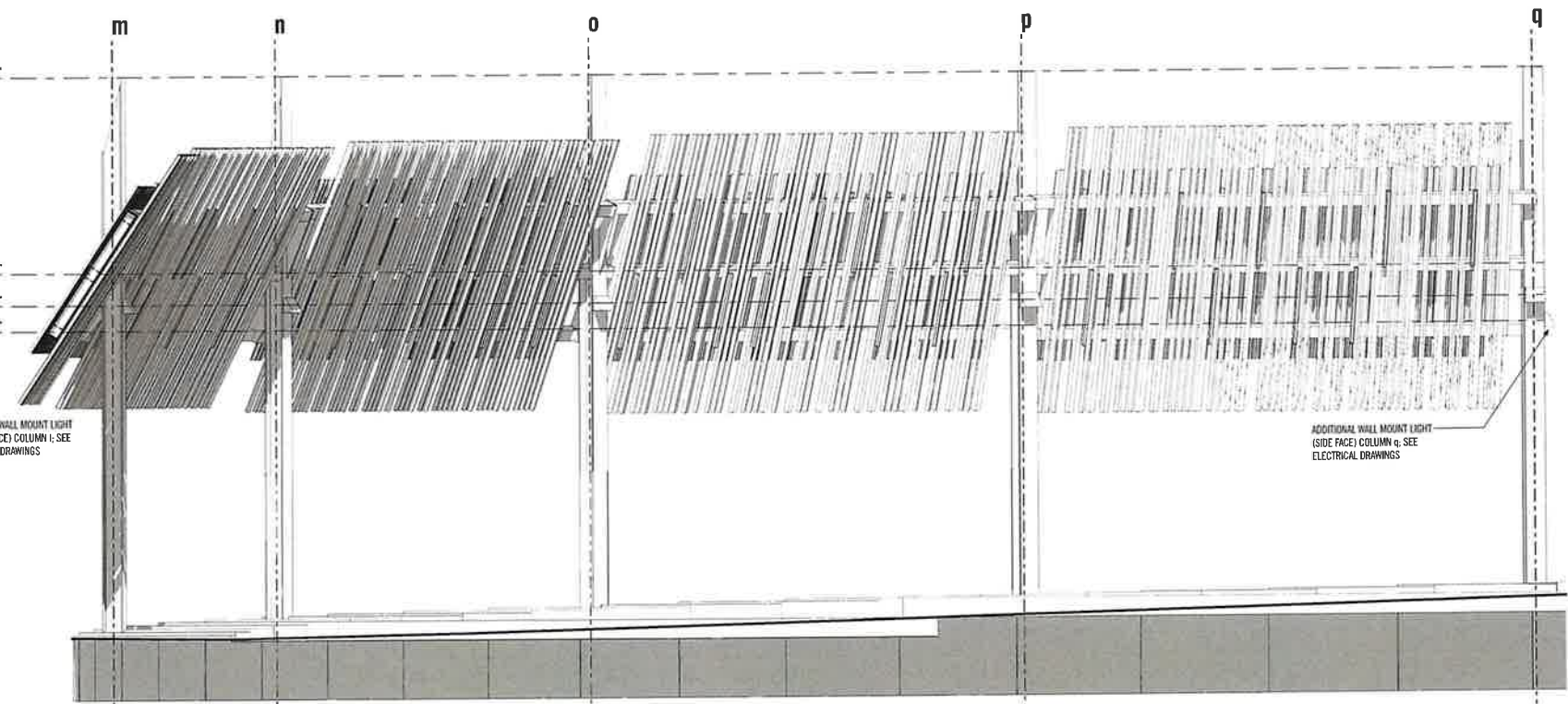
2 | ENLARGED BAY RCP Canopy West 1/4" = 1'-0"



1 | CANOPY GEOMETRY + DIMENSION PLAN 1/8" = 1'-0"



5 | CANOPY SECTION Transverse South 1/4" = 1'-0"



4 | CANOPY SECTION Transverse North 1/4" = 1'-0"

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LAST ARCHITECTS

JAMES ALAN
 ENGINEER
 EXPIRES 09/30/2023

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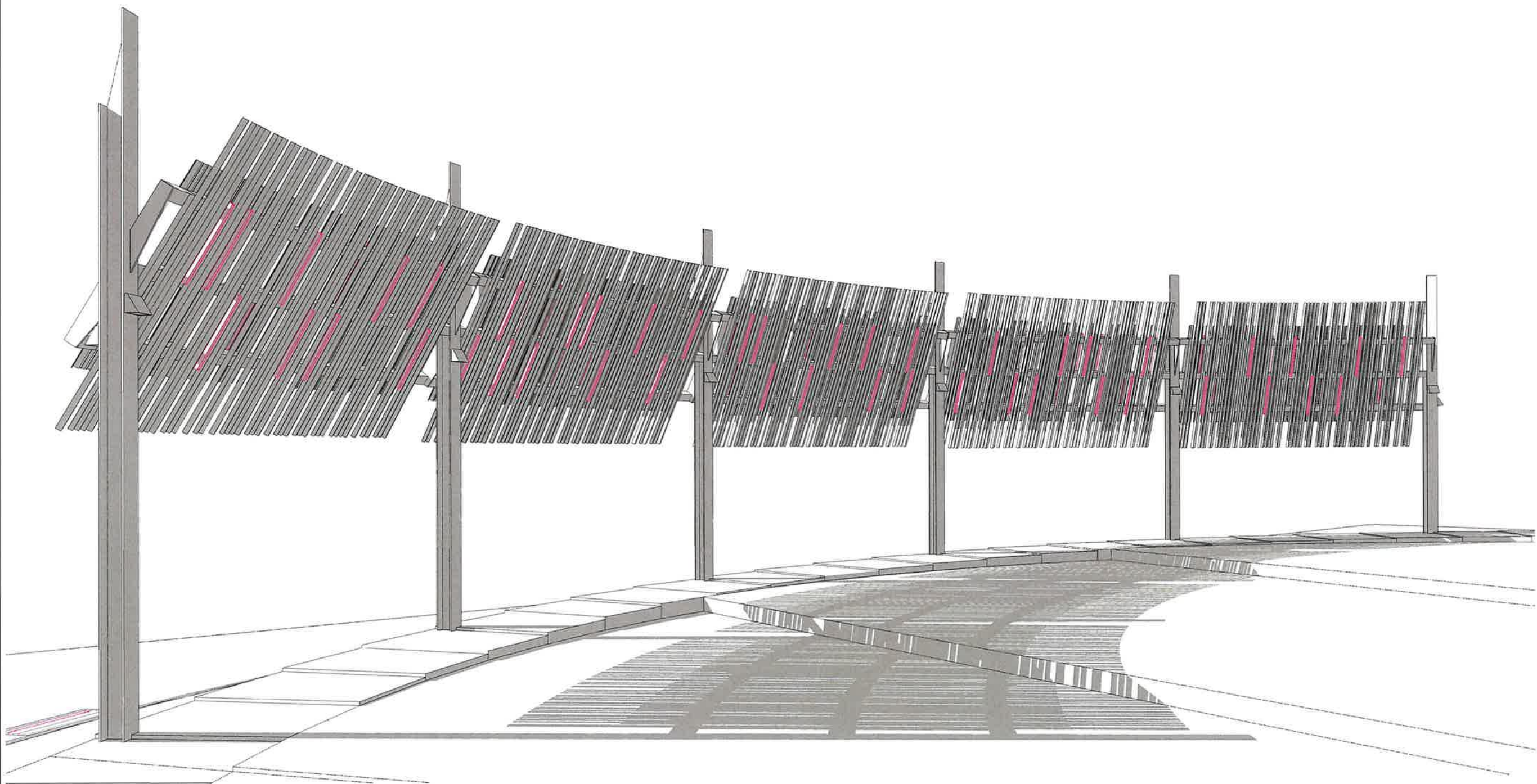
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DATE: June 19, 2022

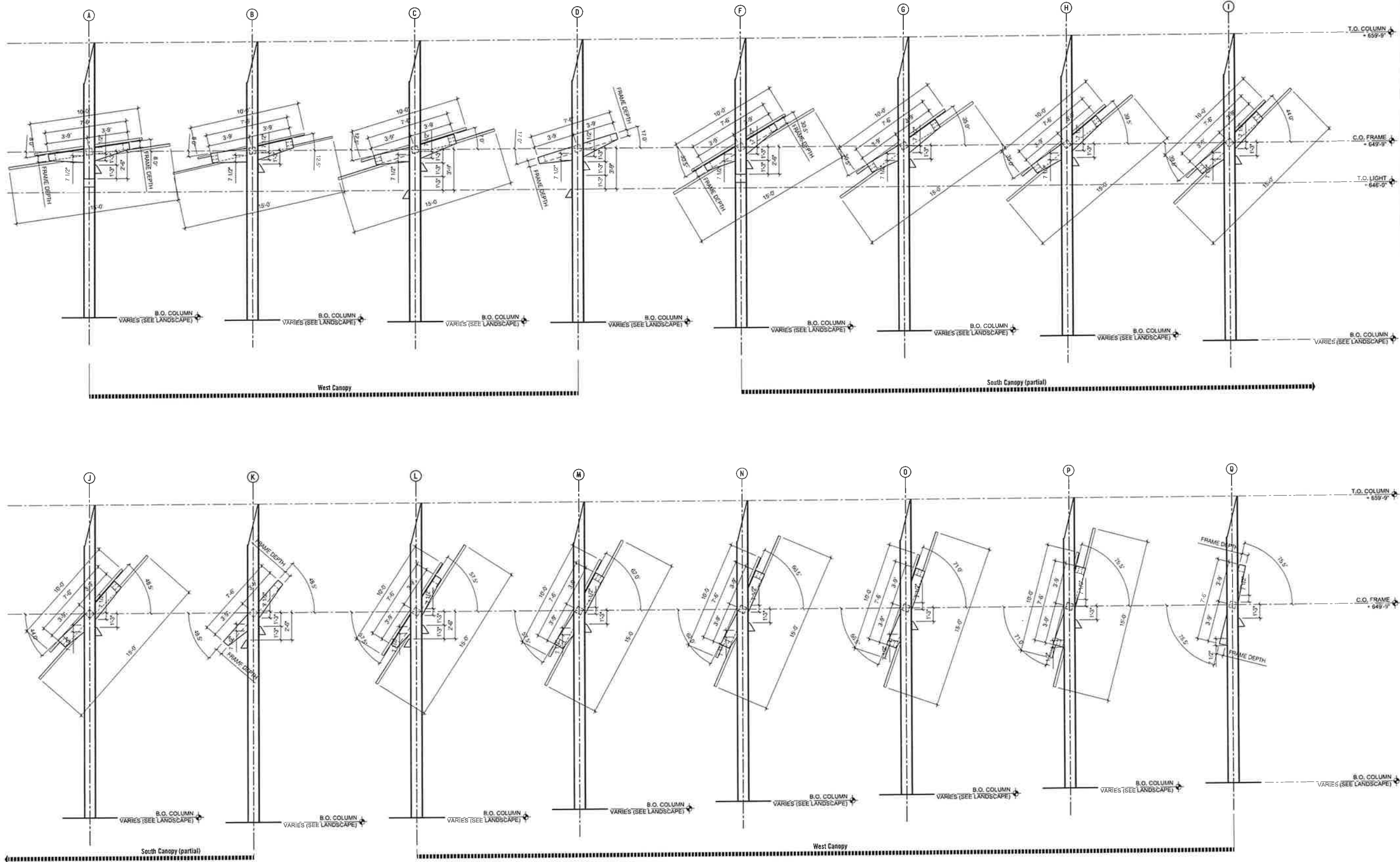
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1 | Perspective View West Canopy Looking North from Inside Hub

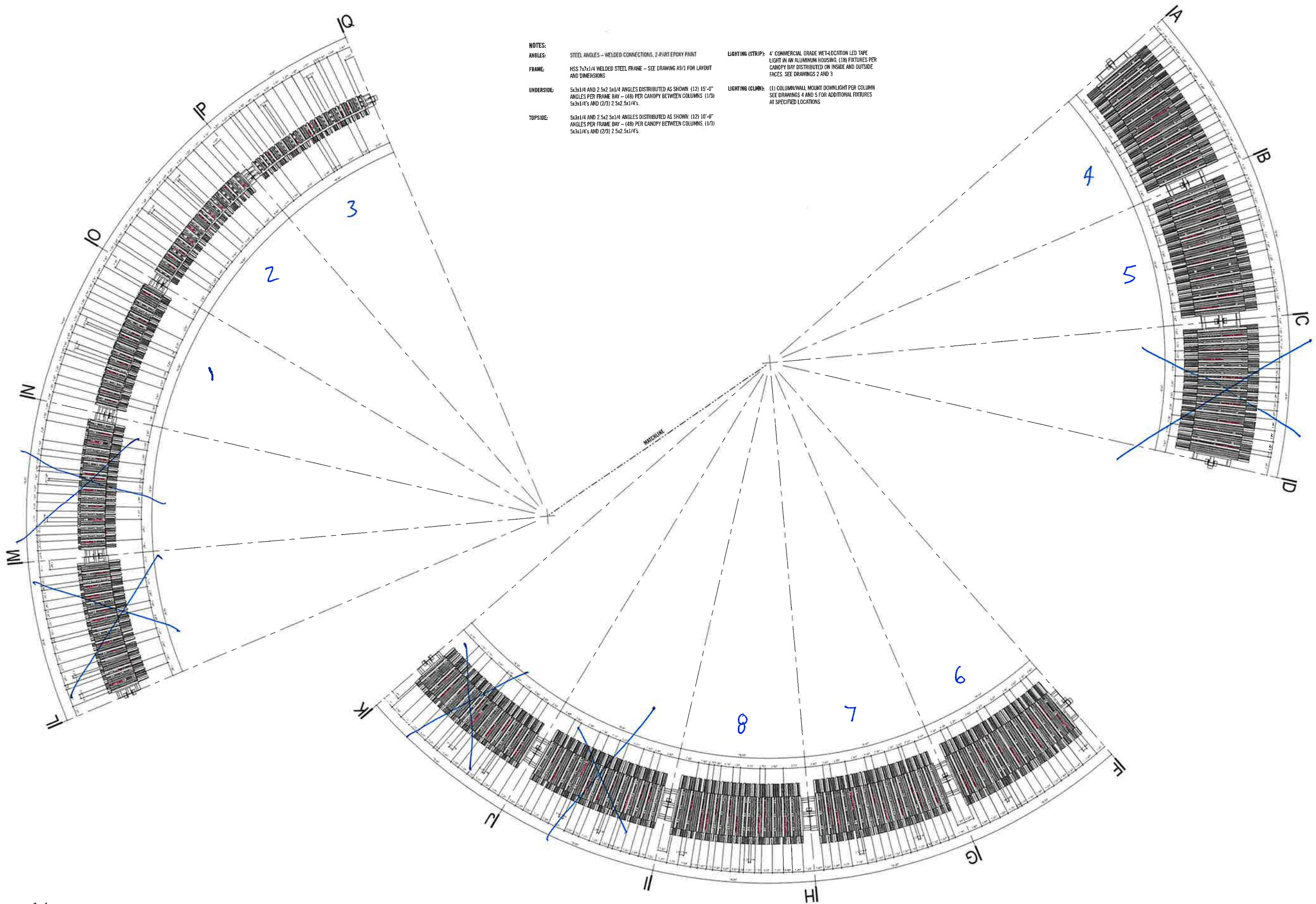
NOTE: CANOPY LIGHTS SHOWN IN COLOR FOR DIAGRAMMATIC PURPOSES ONLY

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1 | Column Elevations East, South, and West Canopies 1/4" = 1'-0"

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NOTES:
ANGLES: STEEL ANGLES - WELDED CONNECTIONS, 2-PART EPOXY PAINT
FRAME: HSS 7x2 1/4 WELDED STEEL FRAME - SEE DRAWING A9/1 FOR LAYOUT AND DIMENSIONS
UNDERSIDE: 5x3x1/4 AND 2 5/2 5x1/4 ANGLES DISTRIBUTED AS SHOWN (12) 15'-0" ANGLES PER FRAME BAY - (48) PER CANOPY BETWEEN COLUMNS (1/3) 5x3x1/4's AND (2/3) 2 5/2 5x1/4's
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LIGHTING (COLUMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS

1 | Canopy Layout Dimension Plan 1/8" = 1'-0"



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A10
CANOPY LAYOUT
Plan



LIGHTING (STRIP): 4' COMMERCIAL GRADE WET-LOCATION LED TAPE LIGHT IN AN ALUMINUM HOUSING (18) FIXTURES PER CANOPY BAY DISTRIBUTED ON INSIDE AND OUTSIDE FACES. SEE DRAWINGS 2 AND 3.

LIGHTING (CLMN): (1) COLUMN/WALL MOUNT DOWNLIGHT PER COLUMN SEE DRAWINGS 4 AND 5 FOR ADDITIONAL FIXTURES AT SPECIFIED LOCATIONS.

A11
CANOPY LAYOUT
Reflected Ceiling Plan

GENERAL STRUCTURAL NOTES

BUILDING CODE:
2018 EDITION OF BUILDING CODE AND STANDARDS REFERENCED THEREIN.

LOADS:
CANOPY ROOFS:
ROOF LIVE LOAD = 20 PSF (REDUCIBLE);
ROOF DEAD LOAD = 20 PSF;
NET AND UPLIFT = 10 PSF, (DESIGN BASED ON 0.6D — 0.6W)

LATERAL:

WIND:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)
V_{ULT} = 99 MPH, EXPOSURE C
RISK CATEGORY II

SEISMIC:
RISK CATEGORY, II.
SEISMIC IMPORTANCE FACTOR, I = 1.00.
MAPPED SHORT PERIOD SPECTRAL ACCELERATION, S_s = 0.189.
MAPPED ONE SECOND SPECTRAL ACCELERATION, S₁ = 0.113.
SOIL SITE CLASS, D.
DESIGN SHORT PERIOD SPECTRAL ACCELERATION, S_{ds} = 0.201.
DESIGN ONE SECOND SPECTRAL ACCELERATION, S_{d1} = 0.178.
SEISMIC DESIGN CATEGORY, C.

FOR DEFLECTION/CAMBER CRITERIA OF STRUCTURAL MEMBERS ENGINEERED BY OTHERS, SEE SPECIFIC MEMBER'S SECTION BELOW

FOUNDATIONS:
GEOTECHNICAL REPORT BY NINYO & MOORE; JOB NO. 606984001 DATED JUNE 9, 2022. CANOPY STRUCTURE SHALL BE SUPPORTED ON DEEP FOUNDATION SYSTEM – CAST-IN-PLACE DRILLED SHAFTS USING AN ALLOWABLE SKIN FRICTION = 80<4000 PSF OR 80 KSF FOR GP-GM MATERIAL AND IGNORING UPPER 24 INCHES TO ACCOUNT FOR SURFACE DISTURBANCE.

Table 2 – Drilled Shaft Lateral Analysis Parameters							
Material	Recommended Soil Type to Model	Depth Range (ft)	Effective Unit Weight (pcf)	Angle of Internal Friction, phi (degrees)	Undrained Shear Strength, Cohesion, c (psf)	Modulus of Subgrade Reaction, K (pcf)	Soil Strain Ratio, ε _{cr}
Poorly Graded Gravel with Silt (GP-GM)	Gravel (Reese)	Varies	125	35	0	225	N/A
Poorly Graded Sand (SP), Silty Sand (SM)	Sand (Reese)	Varies	115	28	0	90	N/A

CONCRETE:

SPECIFIED 28 DAY COMPRESSIVE STRENGTH F_c:

FOUNDATIONS (DESIGN BASED ON 2,500 PSI) ————— 3,000 PSI

GENERAL:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE ACI STANDARDS. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHER CASE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. NO OTHER ADMIXTURES PERMITTED WITHOUT APPROVAL. FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, ANOTHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEERS APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT (IE: FOOTINGS, PIERS, COLUMNS, BEAMS, ELEVATED SLABS, ETC.) WITHOUT EXPRESSED APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

FLY ASH — IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL BE INCLUDED IN THE CALCULATION OF W/C RATIOS SPECIFIED ABOVE. FLY ASH ADDITIVES SHALL NOT BE USED ON SLABS WITH A BURNISHED OR ACID FINISH.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R5.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

CLEAR DISTANCE SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN CLEAR DIMENSION PLUS 3/8", ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

REINFORCING:

ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (Fy = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 (Fy = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER, WHERE SHOWN ON DRAWINGS. ALL GRADE 60 REINFORCING TO BE YELDED SHALL BE ASTM A706. WELDED GAGE REINFORCING PER ASTM A1064, WIRE PER ASTM A1064. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH STRUCTURAL ENGINEER. REFERENCED ACI STANDARDS AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
3" EXPOSED TO EARTH OR WEATHER #6 OR LARGER ————— 2"

#5 AND SMALLER ————— 1 1/2"

ALL OTHER PER REFERENCED EDITION OF ACI 318

ALL DIMENSIONS REFERENCED IN DRAWINGS AS CLEAR DIMENSIONS

STRUCTURAL STEEL:

GENERAL:
ALL STEEL CONSTRUCTION PER REFERENCED AISC STEEL CONSTRUCTS ON MANUAL. ALL WIDE FLANGE STEEL SHALL BE ASTM A992 (Fy = 50 KSI), ALL PIPE STEEL SHALL BE ASTM A500 (Fy = 42 PSI) OR ASTM A53, TYPE E OR S, GRADE B (Fy=35 KSI), ALL TUBE STEEL SHALL BE ASTM A500 (Fy=46 KSI), ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (Fy=36 KSI), THE TERMS PIPE AND ROUND HOLLOW STRUCTURAL ARE USED SYNONYMOUSLY THROUGHOUT THESE DOCUMENTS

ALL STRUCTURAL ROLLED STEEL MEMBERS WITH Fy GREATER THAN 36 IRSI ARE TO BE IDENTIFIED WITH AN ASTM SPECIFICS ON MARK OR TAG PER IBC SEC. 2203.1.

UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. A325 BOLTS MAY BE SUBSTITUTED FOR A307 BOLTS AT THE CONTRACTOR'S OPTION, REVERSE SUBSTITUTION IS NOT PERMITTED. ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES USING SNUG TIGHT INSTALLATION, UNLESS NOTED OTHERWISE.

STEEL ERECTION NOTE:
PER OSHA, STEEL MEMBERS AND DIAGONAL BRACING CANNOT BE RELEASED FROM HOISTING CABLES UNTIL ALL BOLTS OR WELDS AT MEMBER ENDS ARE COMPLETE.

HIGH STRENGTH BOLTS:
ALL HIGH STRENGTH BOLTS SHALL BE ASTM F3125 — GRADE A325 (PREVIOUSLY A325N) AND SHALL BE INSTALLED AS BEARING TYPE CONNECTIONS WITH READS INCLUDED IN SHEAR PLANE. THE TERMS ASTM F3125 — GRADE A325 AND ASTM A325N ARE USED SYNONYMOUSLY THROUGHOUT THESE DOCUMENTS. INSTALL WASHERS AND TIGHTEN "SNUG TIGHT" PER AISC SPECIFICATIONS.

NO DIRECT TENSION INDICATOR TIGHTENING DEVICES OR ALTERNATE DESIGN FASTENERS ARE PERMITTED WITH "SNUG TIGHT" APPLICATIONS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. FOR ADDITIONAL INFORMATION, SEE ABOVE.

WELDING:
UNLESS NOTED OTHERWISE, ALL SHOP AND FIELD WELDS PER REFERENCED EDITION OF THE AWS STANDARDS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING DOCUMENTED CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOW ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

HIGH STRENGTH THREADED STUDS SHALL BE AUTOMATIC WELDED CONFORMING TO ALL REQUIREMENTS OF THE REFERENCED EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING". CONFORMANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL QUALITY CONTROL TESTING PROVISIONS OF THE AFOREMENTIONED PUBLICATIONS

SHOP DRAWINGS:
SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO DESIGN TEAM (SEOR AND AOR) FOR REVIEW, UNLESS NOTED OTHERWISE IN ARCHITECTURAL SPECIFICATIONS. ELECTRONIC SUBMITTALS ARE ALSO ACCEPTABLE. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANCES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVISING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

GENERAL NOTES:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE, EXCEPT WHERE NOTED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCT ON EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

VERIFY ALL DIMENSIONS AND ELONGATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED, OTHERWISE:

SPECIAL INSPECTIONS – STRUCTURAL ONLY (SSI):

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION, SSI SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE. SSI, UNDER CHAPTER 17 OF THE BUILDING CODE, IS REQUIRED FOR THE FOLLOWING ITEMS:

CONCRETE CONSTRUCTION:
1. CONCRETE:
A. DURING TAKING OF TEST SPECIMENS.
B. CONTINUOUS INSPECTION DURING PLACEMENT OF ALL REINFORCED CONCRETE, UNLESS NOTED OTHERWISE.
C. CONTINUOUS INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS. (EXCEPTION: NO INSPECTION IS REQUIRED FOR PLACEMENT OF CONCRETE AROUND FOUNDATION ANCHOR BOLTS)
2. REINFORCING STEEL:
INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO JOBSITE FOR THE FOLLOWING:
A. REINFORCING FOR ALL CONCRETE REQUIRED TO HAVE INSPECTION NOTED ABOVE.
B. REINFORCING FOR CONCRETE FOUNDATIONS.
OTHER SPECIAL INSPECTIONS:
GEOTECHNICAL INSPECTIONS – CAST IN PLACE DEEP FOUNDATIONS
1. CONTINUOUS OBSERVATION OF DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH BORE LOCATION.
2. CONTINUOUS VERIFICATION OF PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTHS, EMBEDMENT AND ADEQUATE END-BEARING STRATA CAPACITY.
3. REFER TO SOILS REPORT AND GEOTECHNICAL ENGINEER FOR CAISSON PREPARATION REQUIREMENTS AND RECOMMENDATIONS INCLUDING OTHER INSPECTION CRITERIA.

LAKE HAVASU CATALYST

PROJECT

2117 McCulloch Blvd,
LAKE HAVASU CITY, AZ

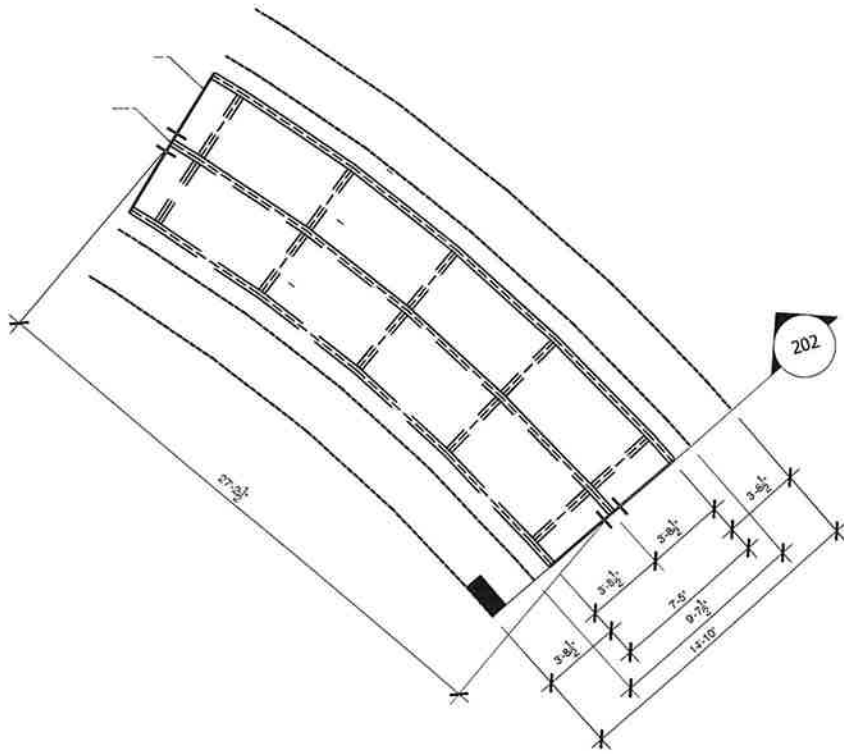
GENERAL STRUCTURAL NOTES

NO
DATE
BY
REVISION

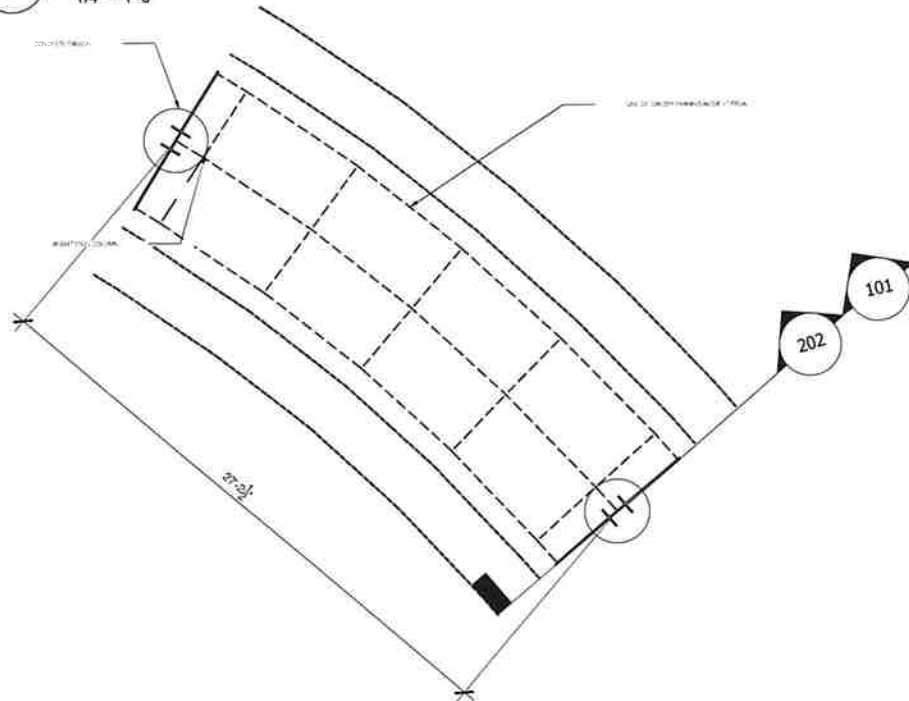


DRAWN JLPK
DESIGN DIG
CHECKED JH
DATE 06.19.2023
SHEET NO

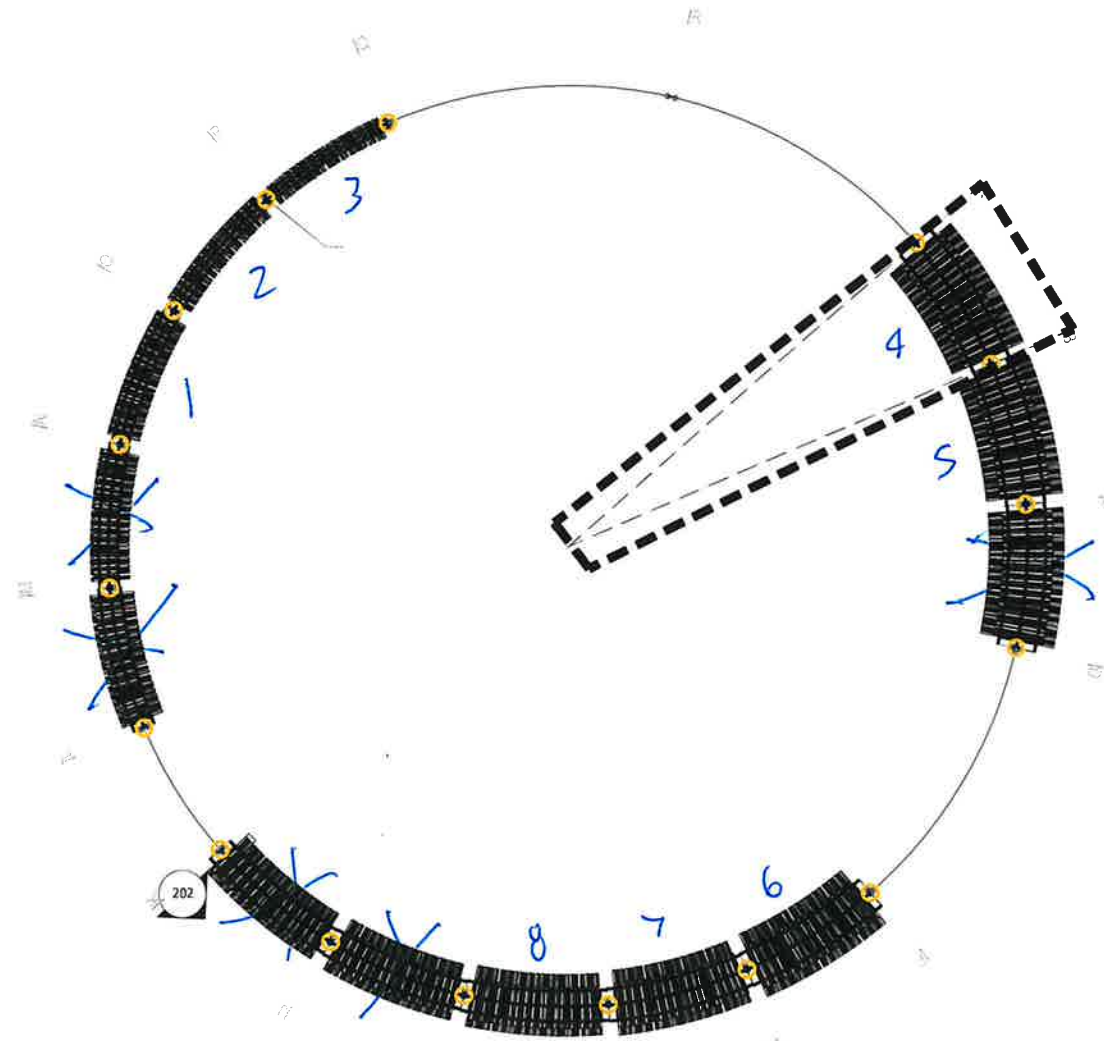
S101



ROOF FRAMING PLAN - STEEL CANOPY
1/4" = 1'-0"

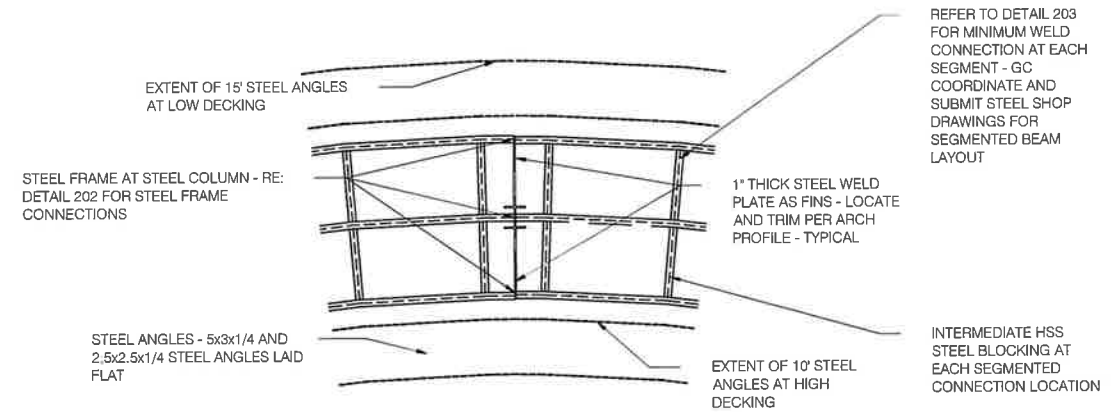


FOUNDATION PLAN - STEEL CANOPY
1/4" = 1'-0"

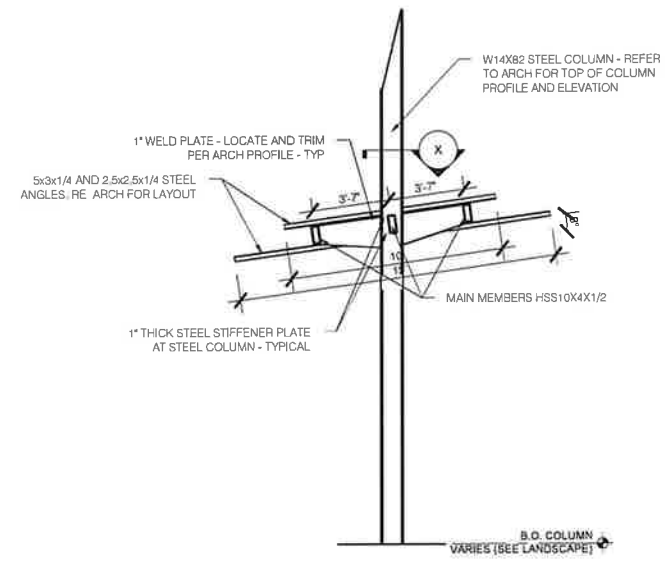


OVERALL PLAN VIEW - STEEL CANOPIES
1/16" = 1'-0"

NO	DATE	BY	REVISION

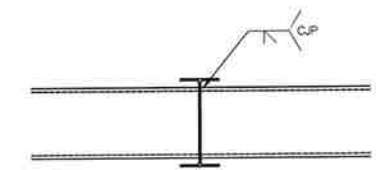
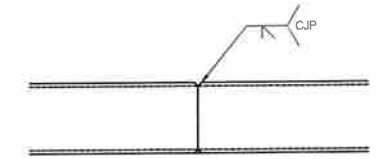


201 PLAN - STEEL FRAME BEAMS AT STEEL COLUMN
NTS

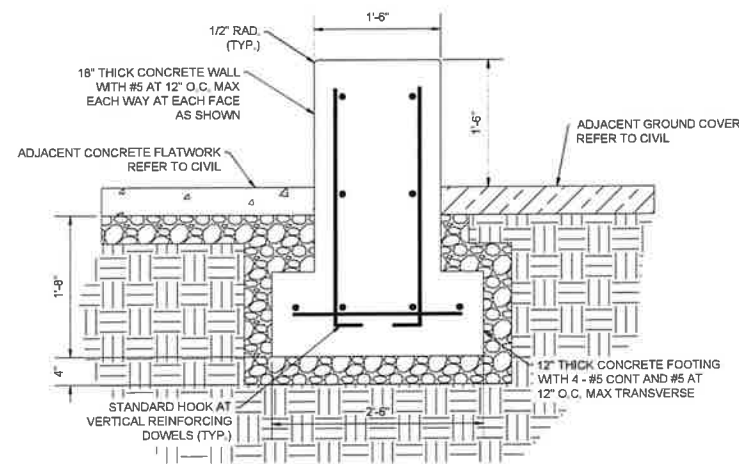


202 ELEVATION - STEEL PLATE AT STEEL COLUMN
NTS

203 WIDE FLANGE STEEL COLUMN IN CONCRETE CAISSON
NTS

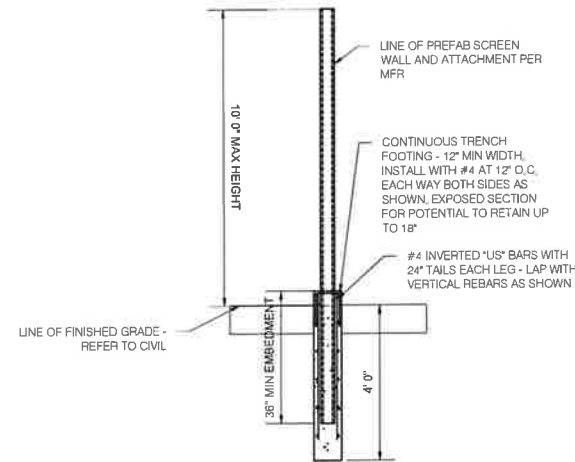


X-X SECTION X-X
NTS



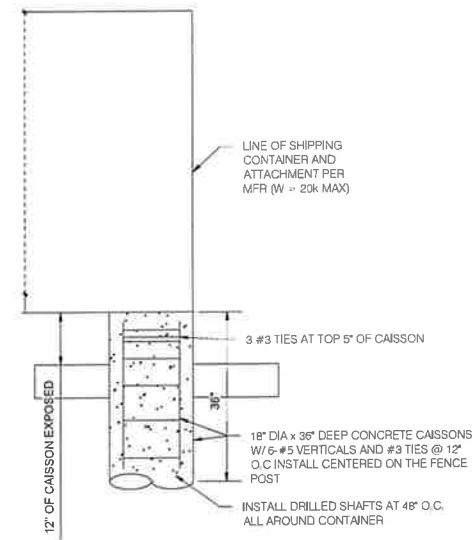
105 SEAT WALL
NTS

REFER TO CIVIL DRAWINGS FOR LOCATION AND PLACEMENT OF SCREEN WALL

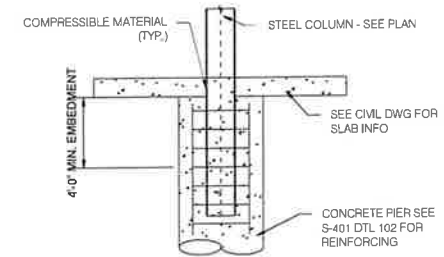


103 SCREEN WALL FENCE FOOTING
NTS

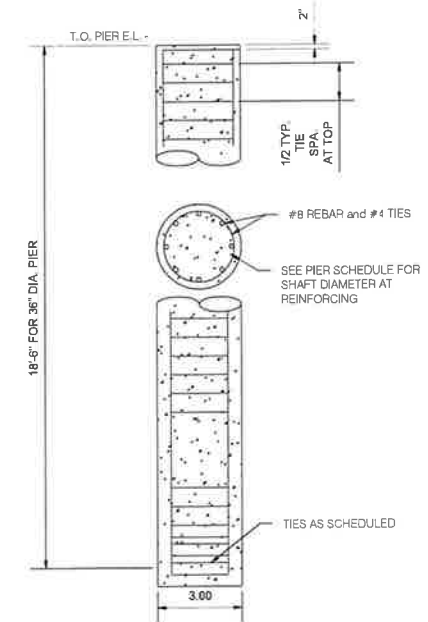
REFER TO CIVIL DRAWINGS FOR LOCATION AND PLACEMENT OF SHIPPING CONTAINER



104 SHIPPING CONTAINER / RESTROOM FOUNDATION
NTS



101 WIDE FLANGE STEEL COLUMN IN CONCRETE CAISSON
NTS



102 WIDE FLANGE STEEL COLUMN IN CONCRETE CAISSON
NTS

Dig

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Michael Baker INTERNATIONAL

100% PERMIT SET
NOT FOR CONSTRUCTION

100% PERMIT SET

LAKE HAVASU CATALYST

PROJECT

2117 McCULLOCH BLVD.
LAKE HAVASU CITY, AZ

STRUCTURAL DETAILS

NO DATE BY REVISION

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DRAWN: JLP/K
DESIGN: DIG
CHECKED: JH
DATE: 06.19.2023
SHEET NO:

S401