Boulder Design Advisory Board Agenda

Wednesday, February 11, 2015
1777 Broadway, West Conference Room
4 – 6 p.m.

The following items will be discussed:

1. Call to Order
2. Approval of Minutes
3. One Boulder Plaza
4. Board Matters

For further information on these projects, please contact:
Sam Assefa at 303.441.4277 assefas@bouldercolorado.gov or

For administrative assistance, please contact:
Melinda Melton at 303.441.3215 meltonm@bouldercolorado.gov

CITY OF BOULDER
BOULDER DESIGN ADVISORY BOARD MINUTES
January 14, 2015
1739 Broadway, 401 Conference Room

A permanent set of these minutes and a tape recording (maintained for a period of seven years) are retained in Central Records (telephone: 303-441-3043). Minutes and streaming audio are also available on the web at: http://www.bouldercolorado.gov/

BDAB MEMBERS PRESENT:
David Biek
Jamison Brown
Fenno Hoffman, Chair
Jeff Dawson
Michelle Lee

BDAB MEMBERS ABSENT:

PLANNING BOARD EX-OFFICIO MEMBER PRESENT:
Bryan Bowen

STAFF PRESENT:
Sam Assefa, Senior Urban Designer
Lesli Ellis, Comprehensive Planning Manager
Melinda Melton, Admin
Susan Meissner, Admin

BOARD DISCUSSION:

1. **Approval of Minutes**

BDAB approved the December 17, 2014 BDAB minutes.

2. **Lumos Solar**

BDAB members unanimously agreed that the Lumos Solar application met the Design Guidelines and the following review criteria:

2.2 Consider the Alignment of Architectural Features and Established Patterns with Neighboring Buildings
2.5 Maintain a Human Building Scale, Rather than Monolithic or Monumental Scale
2.8 Shade Storefront Glass by Appropriate Means
5.1 Signs should be Designed as an Integral Part of The Overall Building Design

3. **Envision East Arapahoe**

L. Ellis presented the item

Board Comments

- **F. Hoffman** suggested choosing colors that would be easier to see in the Sketch Up model. He also suggested extending the model area to include the surrounding areas.

- **B. Bowen** pointed out that some of the eastern portion of the city, like Recycle Row, is not in the model. There was a lot of focus on Recycle Row in the Western Annexation and it should be pictured.

Project feedback:

- BDAB members agreed that the plan needs more vision in order to help East Arapahoe become something different and better than what it currently is. The three scenarios seemed diluted and provided little inspiration. Planners need to think generationally and look forward into the next 50 to 100 years.
- **J. Brown** noted that the goal is not about creating more density but about creating quality of place and determining what can be supported in the area. If the city prohibits any sort of urbanism in other areas of Boulder, the downtown area and its existing character will not be protected.
- Mixed use development around the medical center is desired.
- **D. Biek** suggested that planners use metrics where they support density rather than the other way around. Boulder Junction is where density makes sense.
- **F. Hoffman** noted that a superblock scale structure makes good urbanism very difficult to achieve. Smaller blocks will improve the quality of this area. Model transportation along Arapahoe using the different land use scenarios to determine at what point real effects are perceivable.
- **D. Biek** commented that well-designed neighborhood centers may increase traffic in micro-areas, but reduce the aggregate traffic throughout the city, thereby decreasing vehicle miles traveled per capita. Those decisions should be based on what is good for the region and the planet.
- If the BRT makes local stops it won't need a dedicated lane. BRT slows down in urban areas and then becomes a BRT when it leaves town.

Public engagement:

- The board agreed that there needs to be a change in the public engagement process and that it has to be done smartly.
- Model different densities and land use patterns. Present the public with options on both ends and in the middle of the spectrum.
- **F. Hoffman** noted that the community surveys showed a clear consensus to make transportation-related improvements to Arapahoe; change it into more of a boulevard. Feedback regarding land use changes and development patterns were split and inconclusive. There were many comments requesting that new developments not look like Boulder Junction.
- **J. Dawson** recommended finding case studies of other municipalities around the country where they have taken on the remodeling of a suburban streetscape with goals of increased density and improved sense of place. People can get hung up on the familiarity of their city. Instead, show people what has been successful in other places with similar environments to demonstrate what is possible and that it can be done well.

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- **J. Brown** commented that people fight for what they know. If using visual preferences, do not use examples from Boulder. Show big picture planning related visuals.
- **M. Lee** suggested asking people what kind of lifestyle they want instead of what kind of product they want when they get older. The city needs the right people facilitating public meetings.
- **F. Hoffman** felt that FAR numbers are overwhelming. It is a bad idea to start the dialogue with the public with those numbers.

Recommendations:

- BDAB recommended that city staff put the Envision East Arapahoe project on hold given the lack of public support, move forward with areas of consensus including redeveloping the hospital site and transportation improvements, and uncouple land use and transportation at this juncture.
- **D. Biek** recommended that staff consider addressing 55th and Arapahoe if the expansion went well at the hospital site.

4. **Board Matters**
   F. Hoffman and **D. Biek** will be leaving the board in March. BDAB members discussed options for a farewell celebration.

APPROVED BY:

_____
Board Chair

_____
DATE

DRAFT

City of Boulder Planning and Development Services
1739 Broadway, third floor • PO Box 791 • Boulder, CO 80306
Phone: 303-441-1880 • Fax: 303-441-3241 • Web: boulderplandevelop.net

Revised July 2013 402.pdf

BOULDER DESIGN ADVISORY BOARD APPLICATION

Date of Application 1/30/15 **Address of Property for Review** One Boulder Plaza 1800 Broadway / 1801 13th St.

Applicant's Name Hartronft Associates, p.c. **Phone** 303-673-9304

Address 950 Spruce Street, #1A, Louisville, CO 80027

Relationship to Project (e.g.: architect, contractor, etc.) Architect/Planner

Owner's Name and Address Vail Lizard, Inc. 1942 Broadway, # 314 **Phone** 303-579-4068
Tom Thorpe Owner's Representative

Project Description Project consists of minor modifications to previously approved Site Review. There are 6 primary exterior areas of work included in the One Boulder Plaza 2014-2015 Revitalization as follows: 1.) East Oval Plaza - Modifications to original fountain design and canopy at east side of plaza (both originally approved but not constructed); 2.) Addition of 2 pedestrian district markers at N. & S. end of 13th St. sidewalk; 3.) Addition of Sun Lounge and landscaping at south courtyard; 4.) Planter modification at north courtyard; 5.) Entry planter and sidewalk modification at west side; and 6.) New loading area on east side of 13th St.

Lot Size 89,115 sf
Total Existing Bldg. Sq Ft. 111,417 *
Existing Bldg Height 55 feet

Proposed Additional Bldg. Sq. Ft. 390
Proposed Bldg. Height 55 feet
*(note building square footage excludes parking gar.)

Submission Deadlines

The Boulder Design Advisory Board generally meets on the second Wednesday of every month. The deadline for submitting your application is 4 p.m. on the last Wednesday of the month, two weeks prior to the meeting date that you wish to attend. Come in person to the Planning and Development Services Center, 1739 Broadway, third floor, to submit your application and materials to a Project Specialist.

Please see the attached "Submission Requirements" sheet for guidance on what we need.

What to Bring to Your Review

At the time of the meeting, please bring at least one set of rendered drawings and material samples.

Committee Comments about the Proposal:

For submittal questions or project-content questions, please contact Sam Assefa, (303) 441-4277, assefas@bouldercolorado.gov. For administrative questions about BDAB, please contact Susan Meissner, (303) 441-4464, meissners@bouldercolorado.gov You can visit our Web site at: www.boulderplandevelop.net and click on Boulder Design Advisory Board (BDAB).

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BDAB Application Submission Requirements

Application requirements for design review will vary depending upon the complexity and scale of the project to be reviewed, and the specific requirements of the reviewing body. In general, the applicant should provide the appropriate architectural drawings, sketches, and photographs of existing buildings and their sites to allow the reviewing body to fully understand the nature and scope of the exterior changes and any significant design issues.

For BDAB, four (4) paper copies and all electronic files on a CD or thumb drive. Copies of all relevant information listed below must be submitted ***to a project specialist*** in the Planning and Development Services Center no later than 4 p.m. on the last Wednesday of the month, two weeks prior to the BDAB meeting. ***[Please DO NOT send a courier; a representative from your organization needs to bring the plans to the project specialist in person so the specialist can check that submission requirements have been met, which prevents problems with the application.]*** Applications should be well organized and contain sufficient information to allow reviewers to fully understand the proposed building design or alteration, including relevant urban design information such as how the project fits within its surrounding context, and how it relates to adjacent buildings and properties.

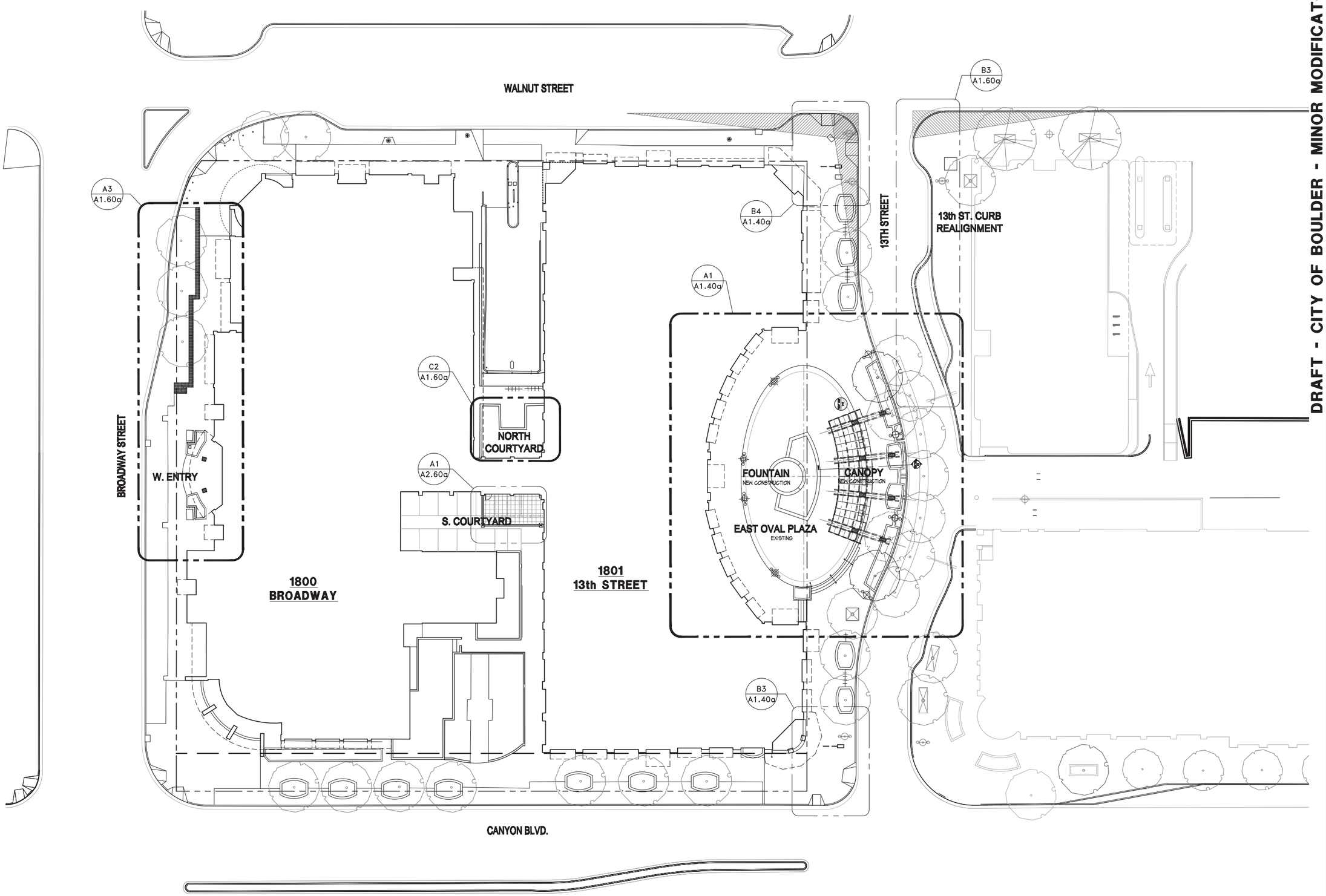
At a minimum, BDAB applications should include the following information:

- A map illustrating the location of the project as well as photographs of the project site and the surrounding area.
- A site plan in a clear graphic style should be presented in the context of the city blocks surrounding the project. Site boundaries and dimensions should be clearly marked and special issues such as floodplain, shadows, land restrictions and the existing site conditions need to be highlighted.
- All relevant floor plans, building sections, and exterior elevations should be illustrated at a scale sufficient to fully understand the proposed design.
- Provide exterior wall elevations in color showing material and color selections.

Additional information that may be required for BDAB:
The following additional information may be required if the proposal modifies the permitted "by-right" building height, or if the project is of significant complexity that the two dimensional drawings described above do not fully illustrate the design issues:

- A simple mass model if the project is of significant size and complexity, showing the surrounding context.
- Color perspective sketches illustrating the proposed project and its surroundings, from street level, to present the project from the pedestrian's viewpoint.
- An analysis of the shadow impact of the proposed project is important, especially for projects on the south side of downtown streets.

Visit our Web site at: www.boulderplandevelop.net; click on Boulder Design Advisory Board (BDAB)



A1 / A1.30a **OVERALL SITE PLAN**
1" = 20'-0"

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One Boulder Plaza
OBP 2014–2015 Revitalization
1800 Broadway & 1801 13th St
Boulder, Colorado 80302

PROJECT # 1355
DATE: 01/20/15
DRAWN BY: HAPC
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REVISIONS:

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E. OVAL PLAZA & CANOPY – SITE PLAN, ELEV, & DTLS

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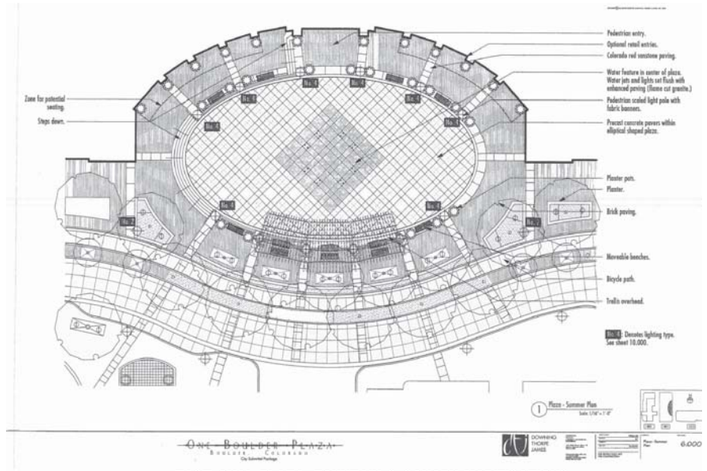
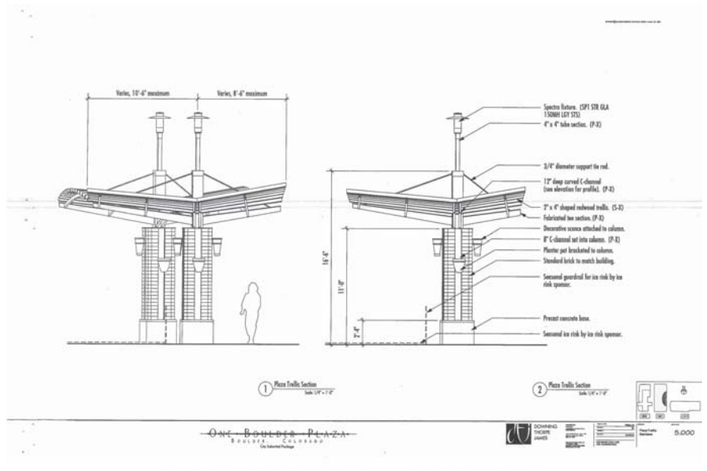
A1.30a



EAST OVAL PLAZA: FOUNTAIN & CANOPY MODIFICATIONS
RE: A1/A1.40a



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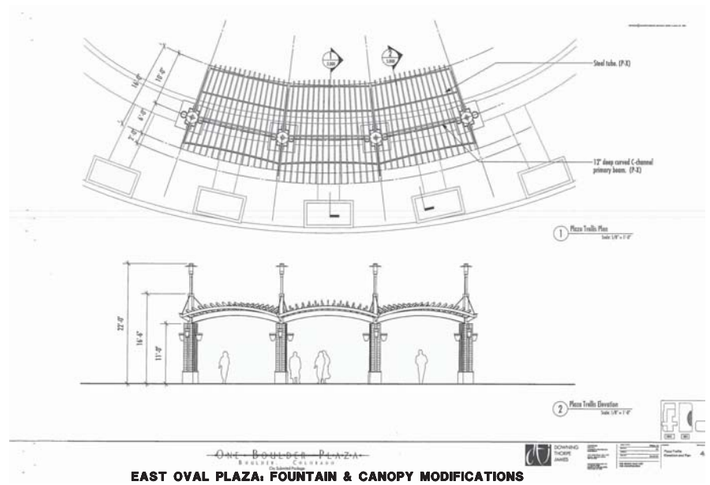


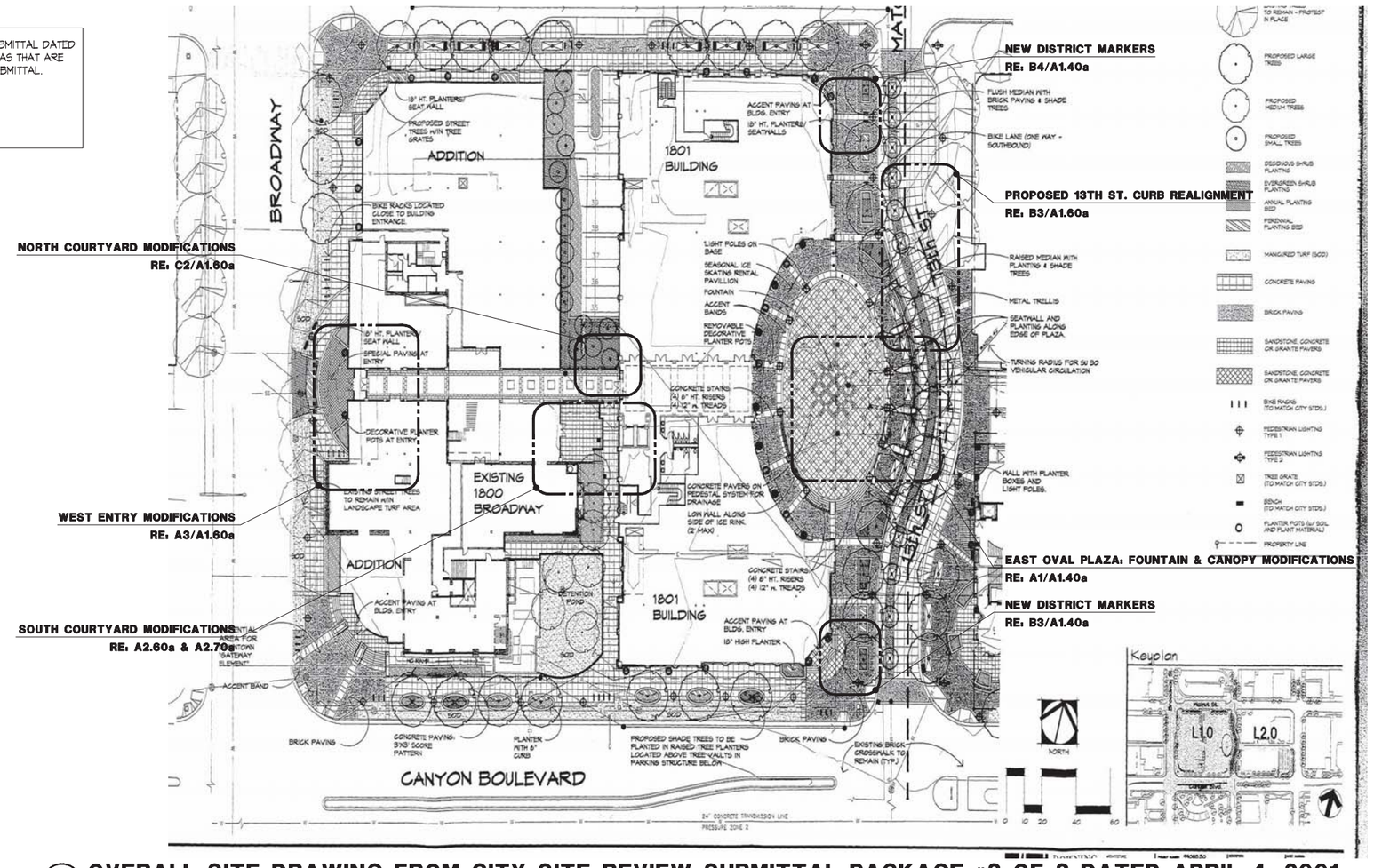
EAST OVAL PLAZA: FOUNTAIN & CANOPY MODIFICATIONS
RE: A1/A1.40a

D4 / A1.31a ORIGINAL EAST PLAZA FOUNTAIN & CANOPY DRAWINGS FROM CITY SITE REVIEW SUBMITTAL PACKAGE #1 OF 3 DATED APRIL 4, 2001

N.T.S.

DRAWINGS ARE OF ORIGINAL CITY SITE REVIEW SUBMITTAL DATED APRIL 4, 2001 & ARE PROVIDED TO INDICATE AREAS THAT ARE TO BE CHANGED PER THIS MINOR MODIFICATION SUBMITTAL.

CITY OF BOULDER CASE NUMBER REFERENCES:
LUR2000-51017
LUR2001-51017
LUR2002-00041



A2 / A1.31a OVERALL SITE DRAWING FROM CITY SITE REVIEW SUBMITTAL PACKAGE #3 OF 3 DATED APRIL 4, 2001

N.T.S.

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OBP

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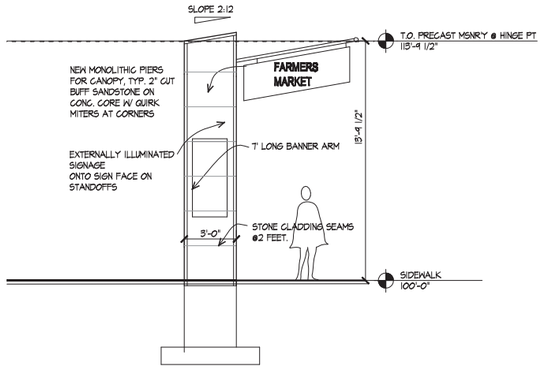
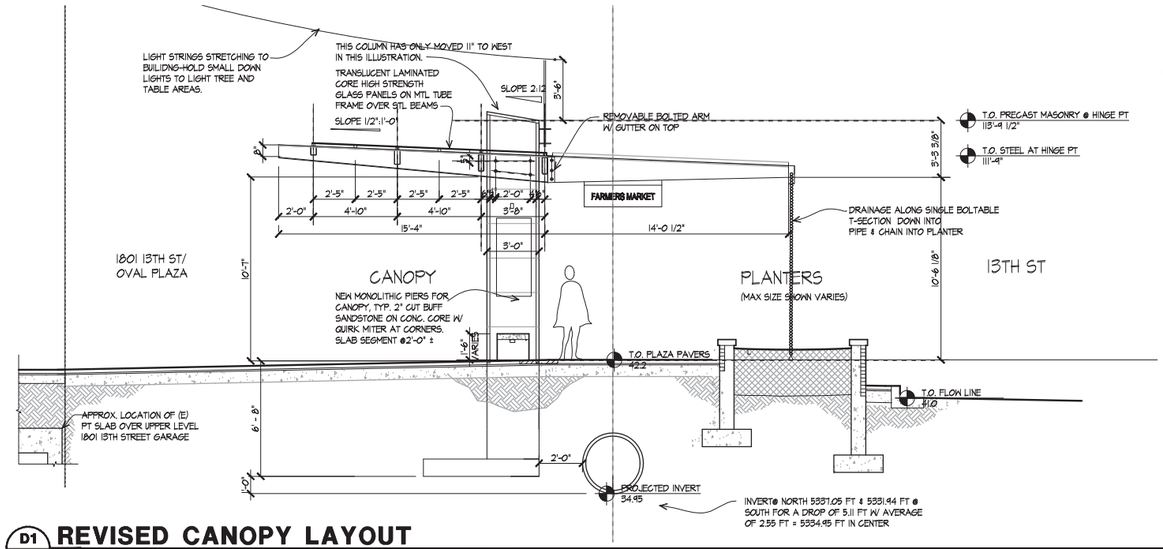


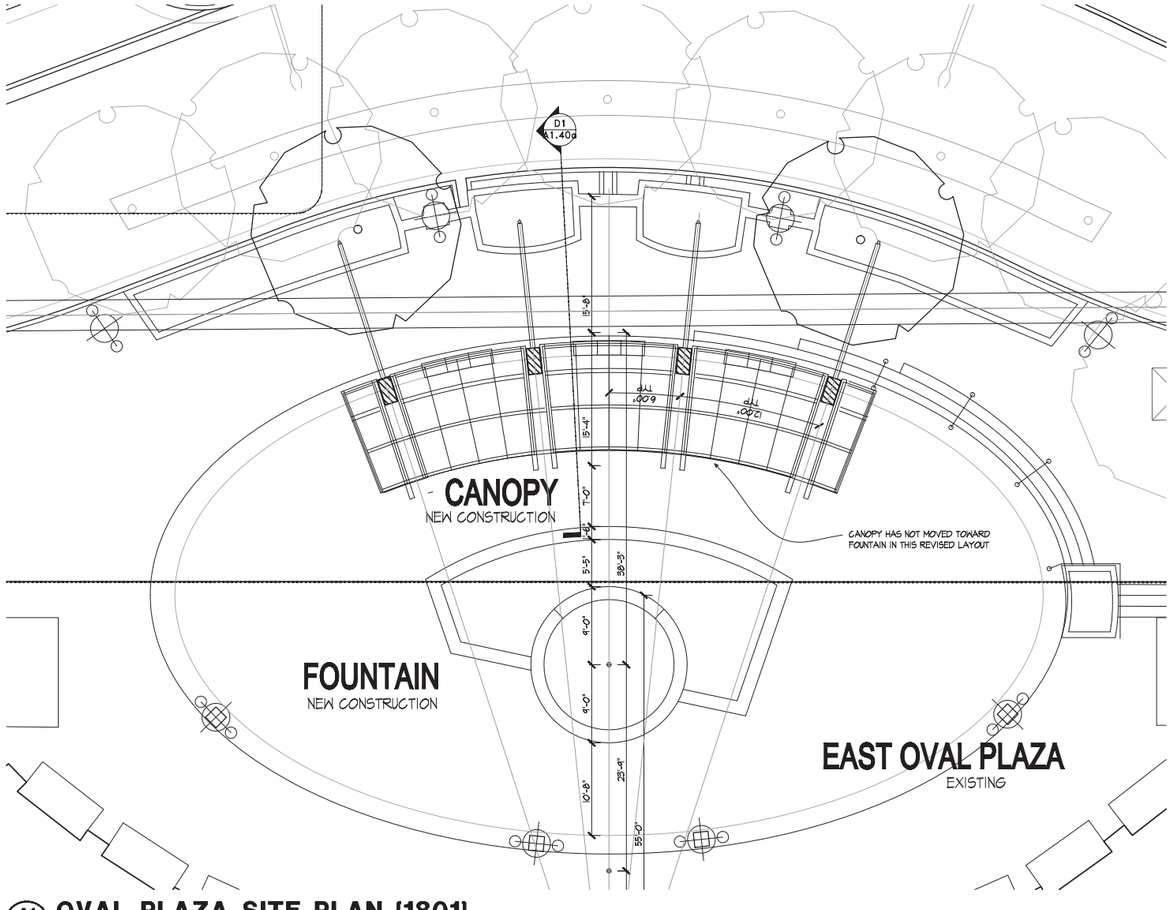
D3 A1.31 **DISTRICT MARKER**
1/4"=1'-0"



D1 A1.31 **REVISED CANOPY LAYOUT**
1/4"=1'-0"

BASE BID

ONE ROW OF COLUMNS @ WEST SIDE OF CANOPY



NORTH

A1 A1.31 **OVAL PLAZA SITE PLAN (1801)**
1/8"= 1'-0"

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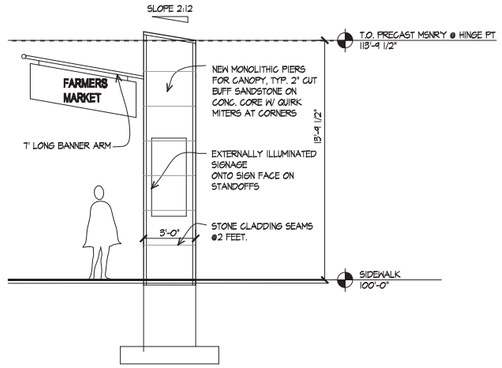

D3 A1.40a DISTRICT MARKER

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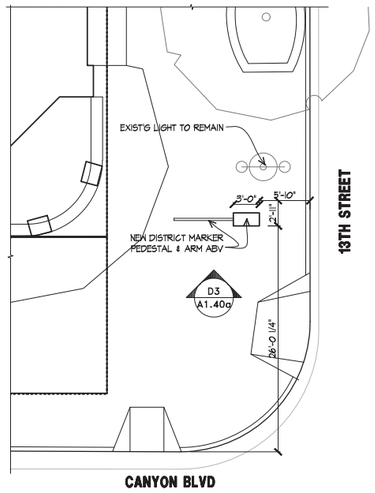
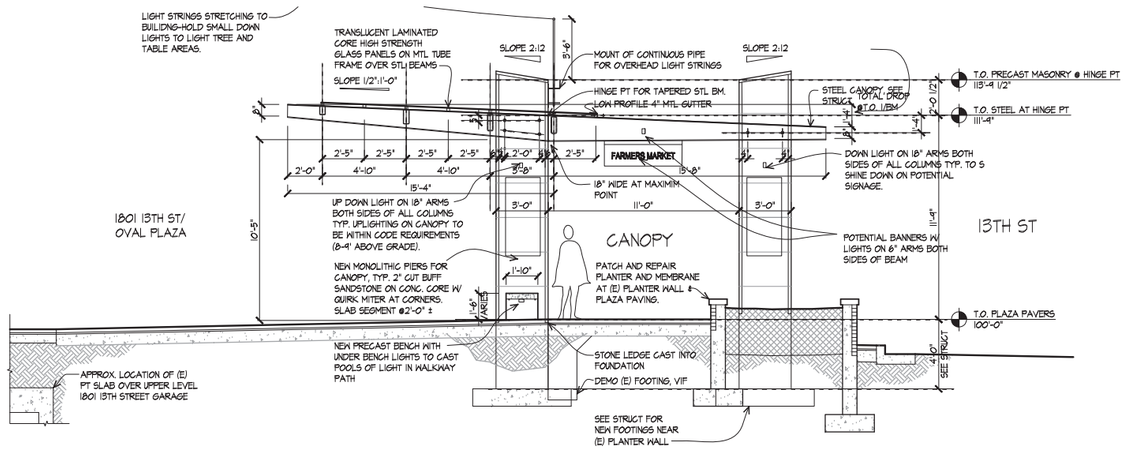
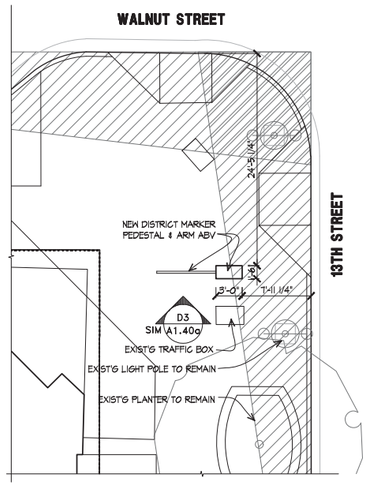




D1 A1.40a OVAL PLAZA CANNOPY SECTIONS (1801)

1/4"=1'-0"

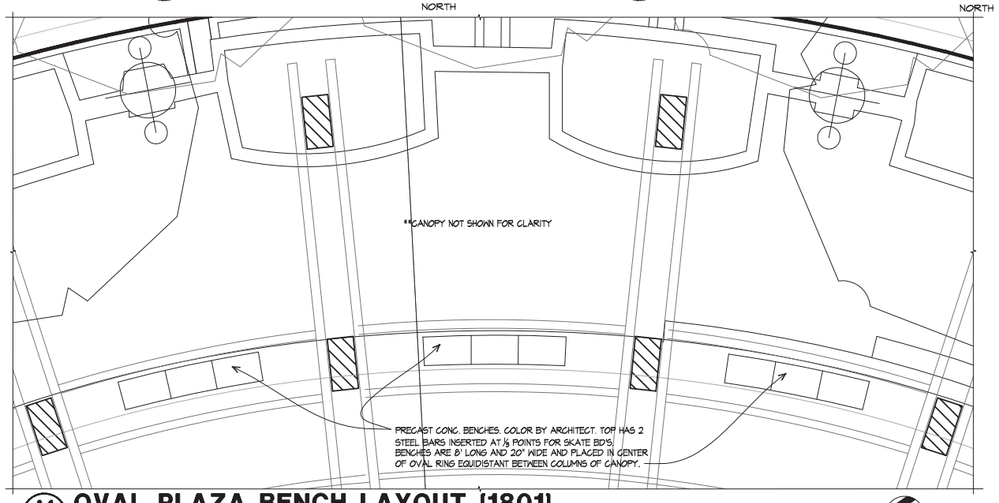


B4 A1.40a N. DISTRICT MARKER

1/8"=1'-0"

B3 A1.40a S. DISTRICT MARKER

1/8"=1'-0"



A4 A1.40a OVAL PLAZA BENCH LAYOUT (1801)

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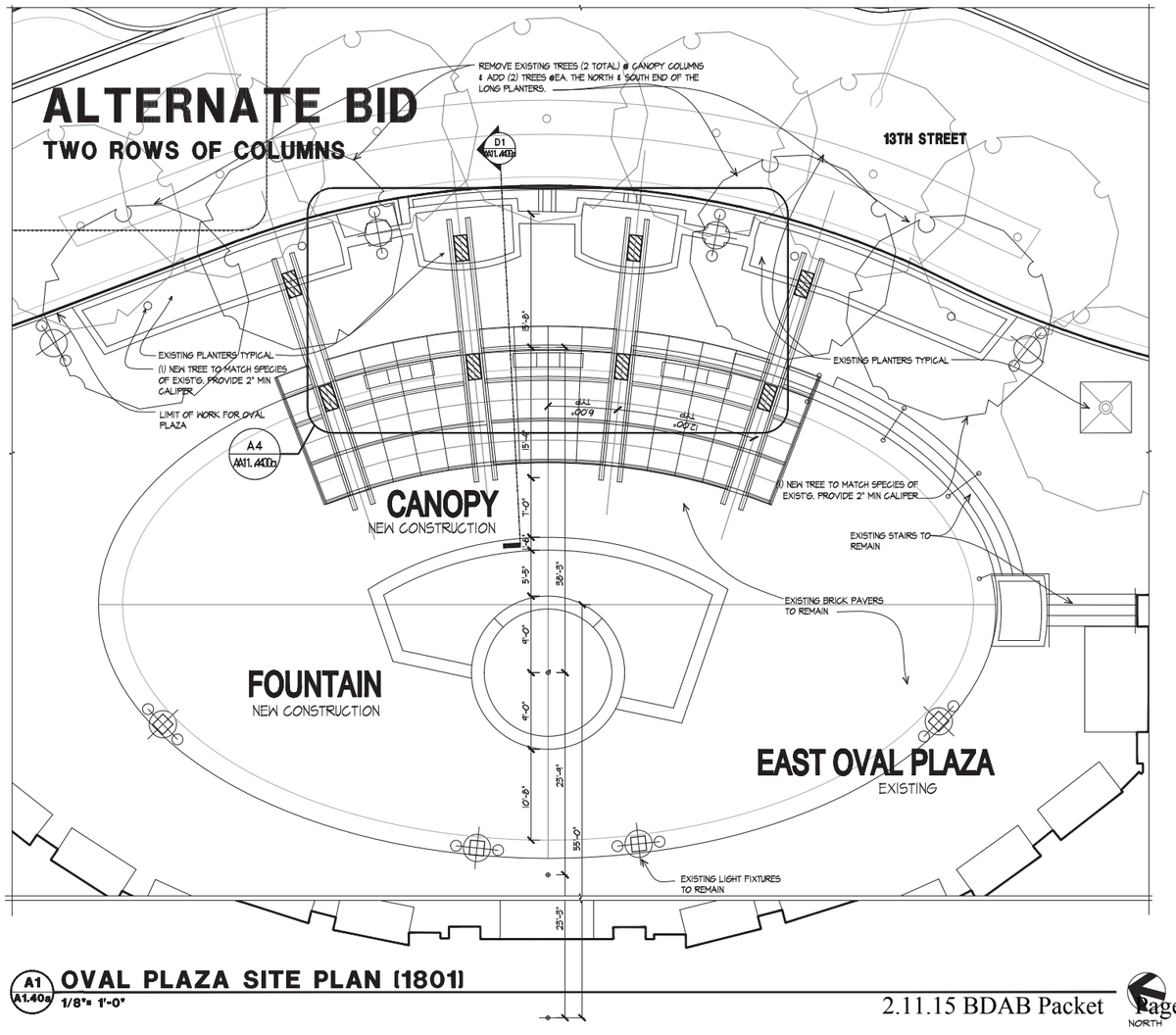

A1 A1.40a OVAL PLAZA SITE PLAN (1801)

1/8"= 1'-0"

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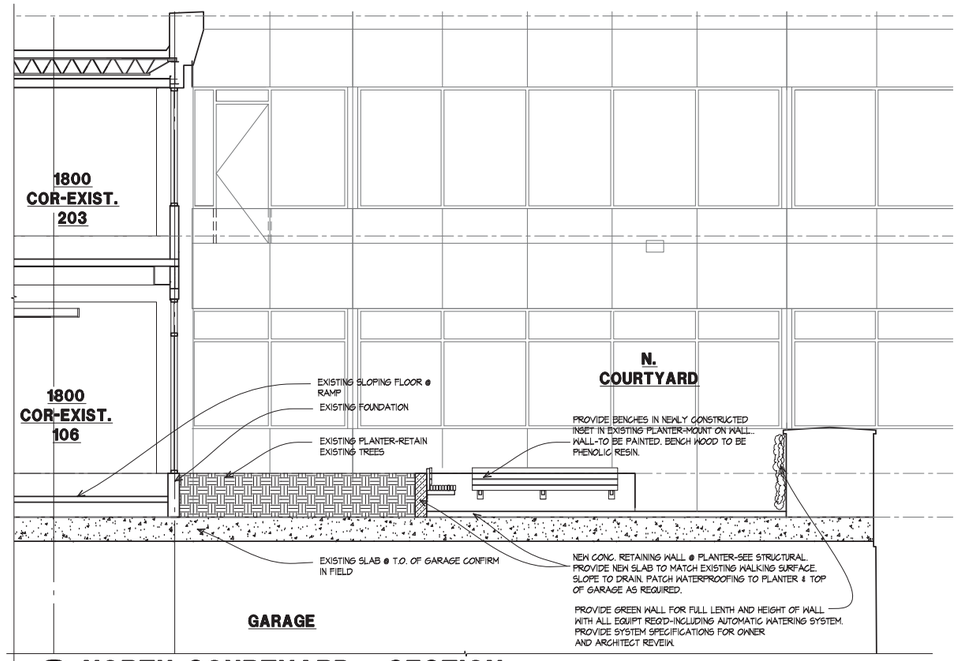

C4 A1.60a **NORTH COURTYARD - SECTION**
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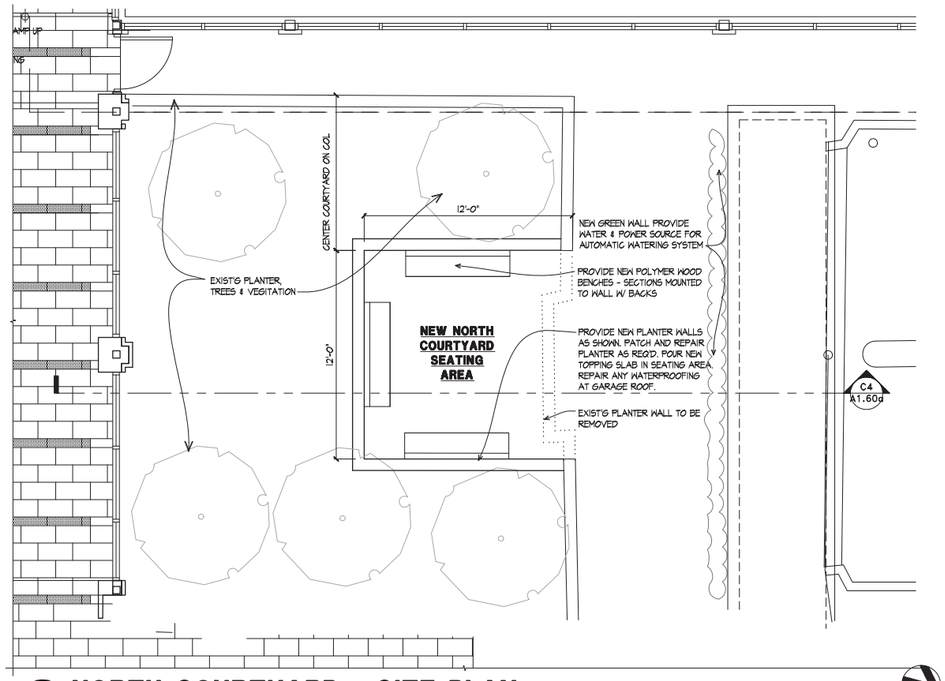
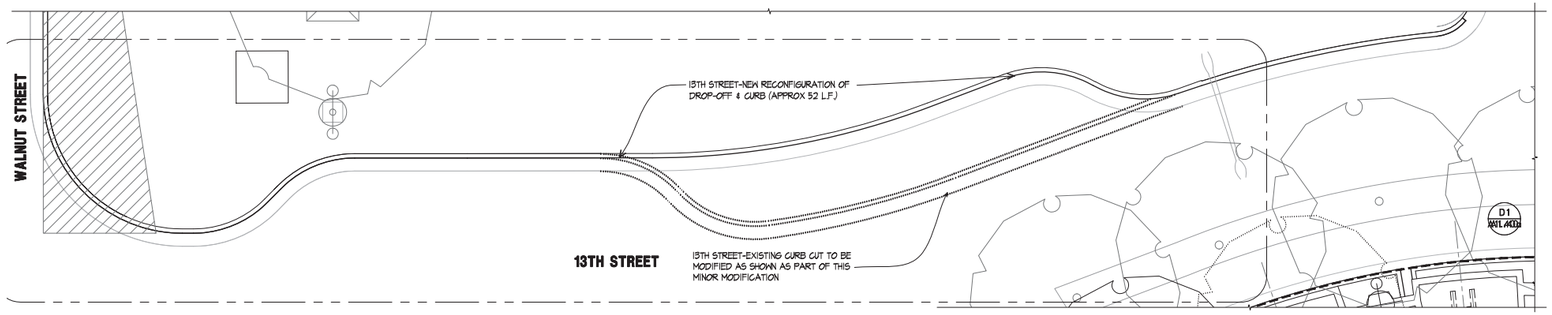


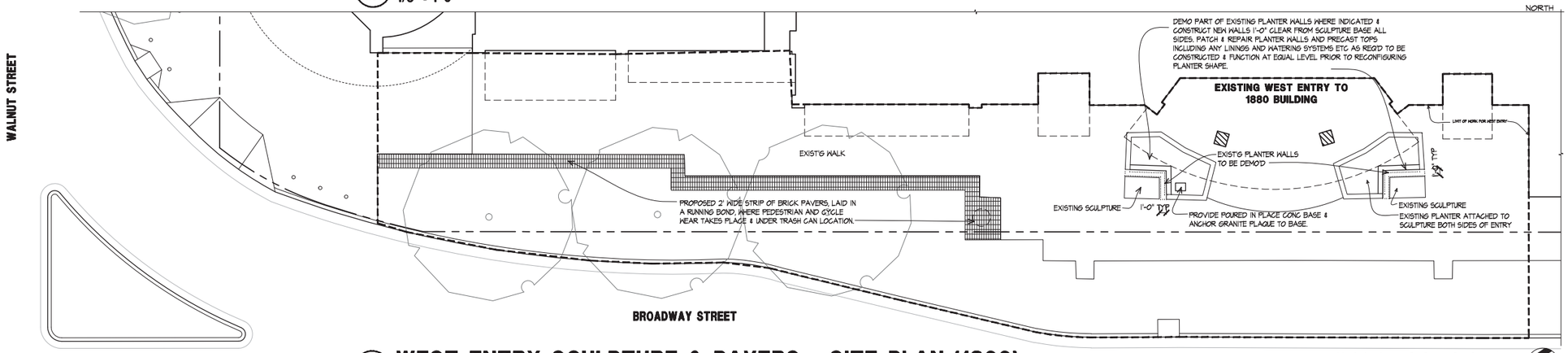
C2 A1.60a **NORTH COURTYARD - SITE PLAN**
1/4" = 1'-0"

NORTH



B3 A1.60a **13TH STREET CURB**
1/8" = 1'-0"

NORTH



A3 A1.60a **WEST ENTRY SCULPTURE & PAVERS - SITE PLAN (1800)**
1/8" = 1'-0"

NORTH

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NORTH COURTYARD - SITE PLAN/SECT/ELEV

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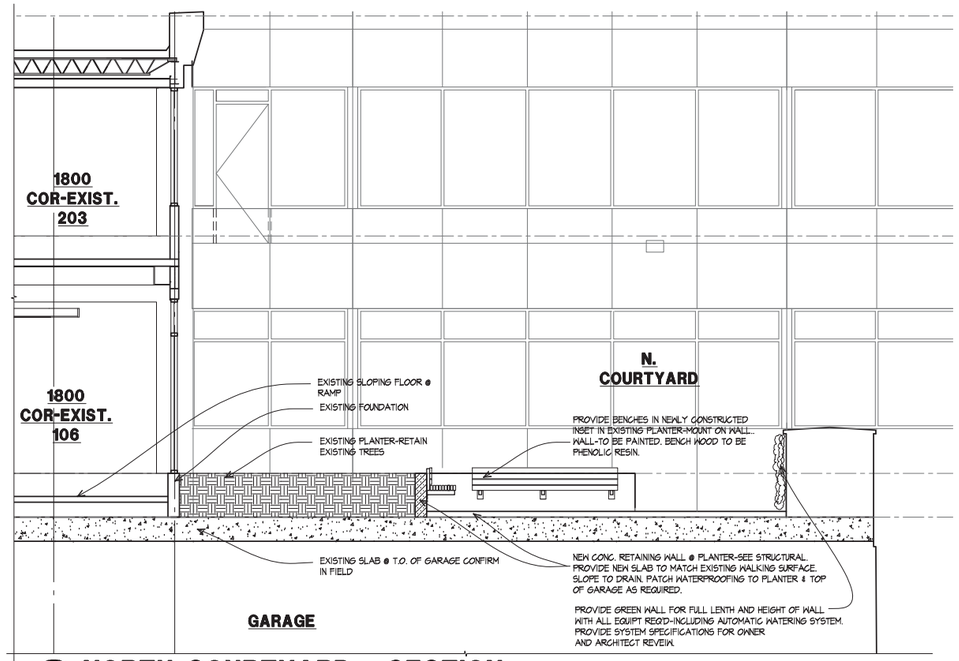
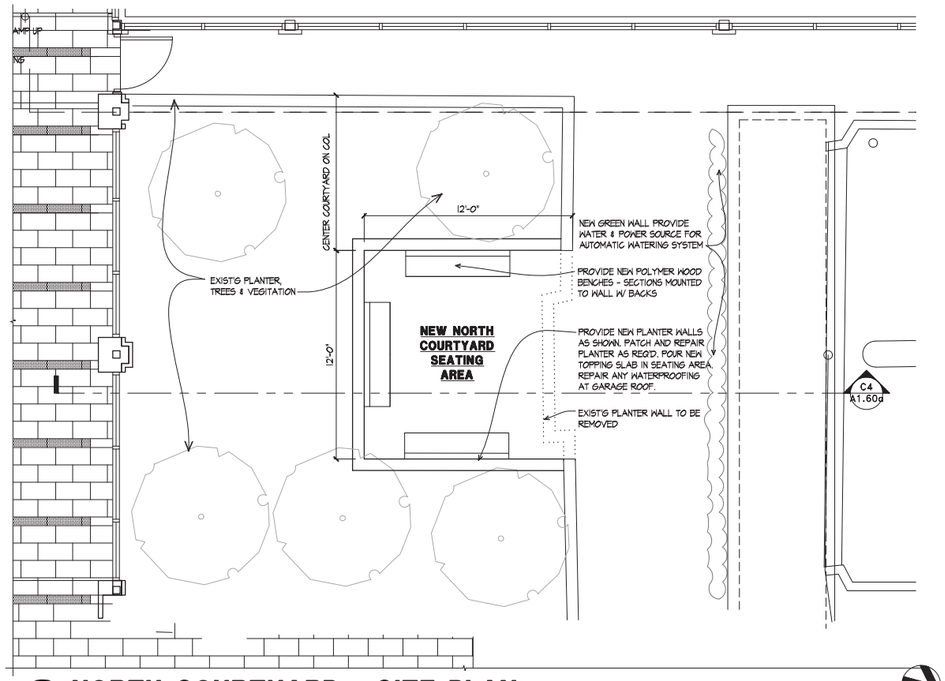
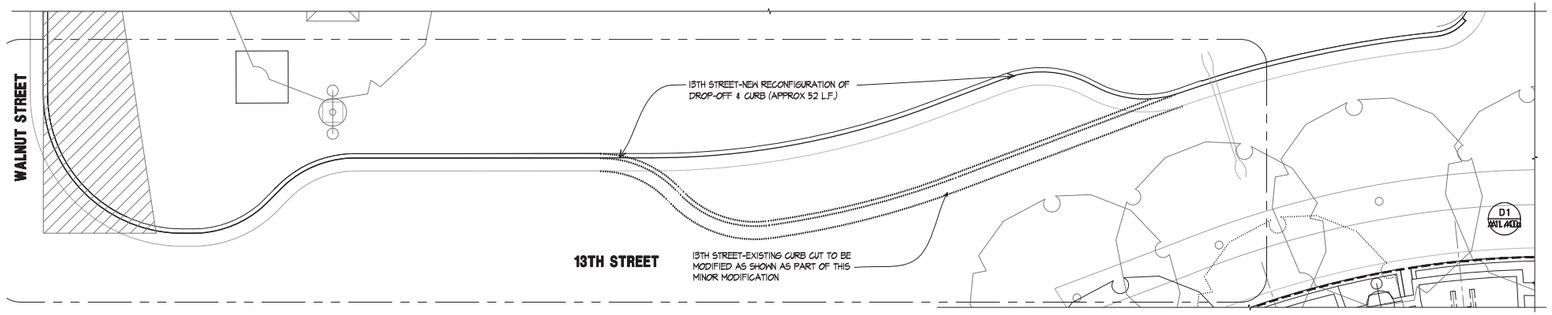


C4 / A1.60a **NORTH COURTYARD - SECTION**
1/4" = 1'-0"



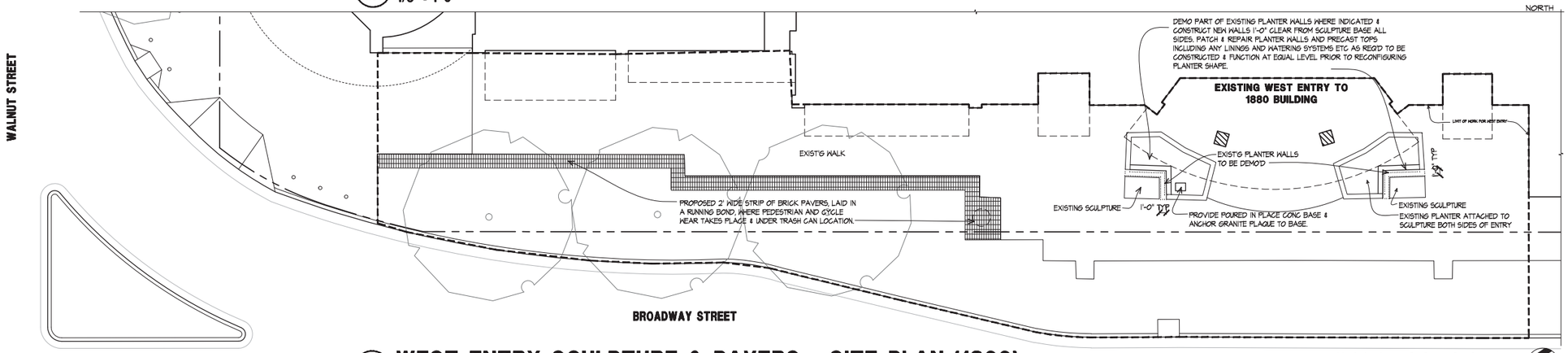
C2 / A1.60a **NORTH COURTYARD - SITE PLAN**
1/4" = 1'-0"

NORTH



B3 / A1.60a **13TH STREET CURB**
1/8" = 1'-0"

NORTH



A3 / A1.60a **WEST ENTRY SCULPTURE & PAVERS - SITE PLAN (1800)**
1/8" = 1'-0"

NORTH

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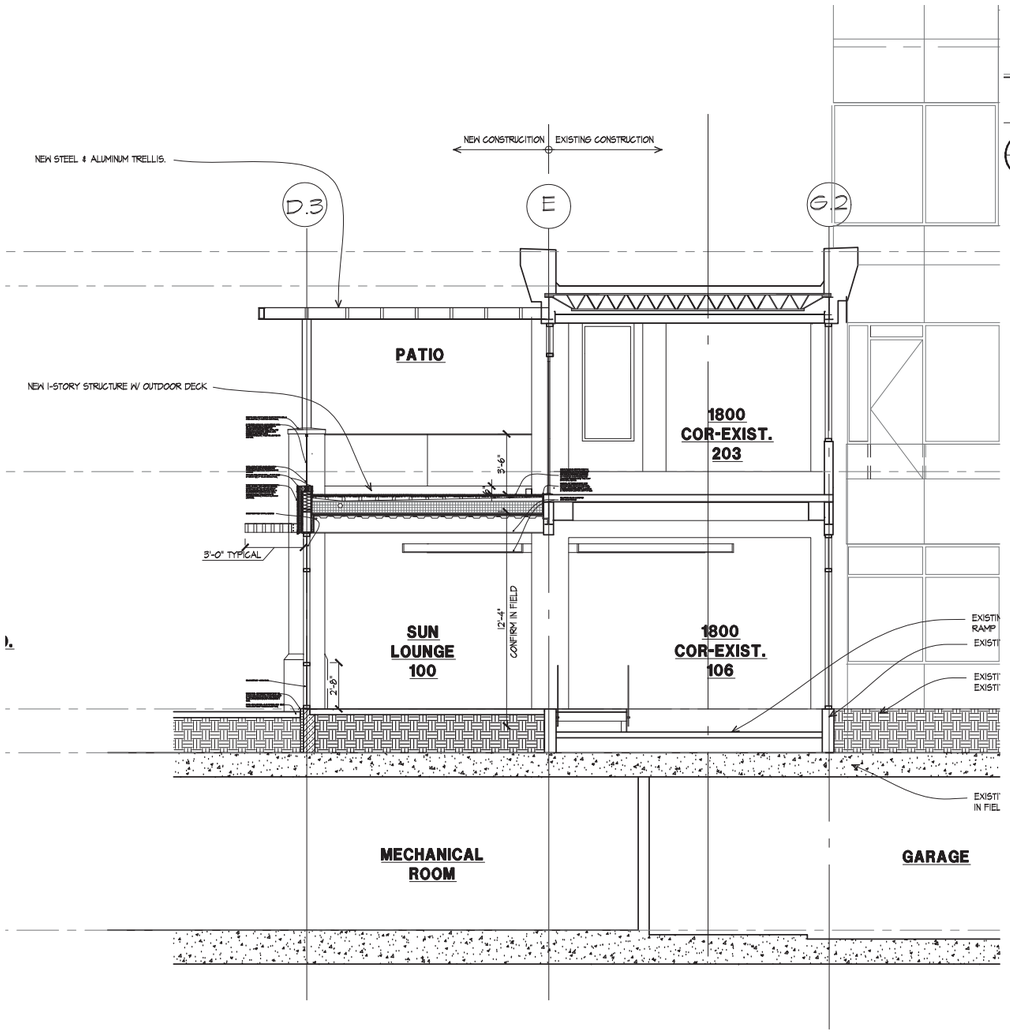
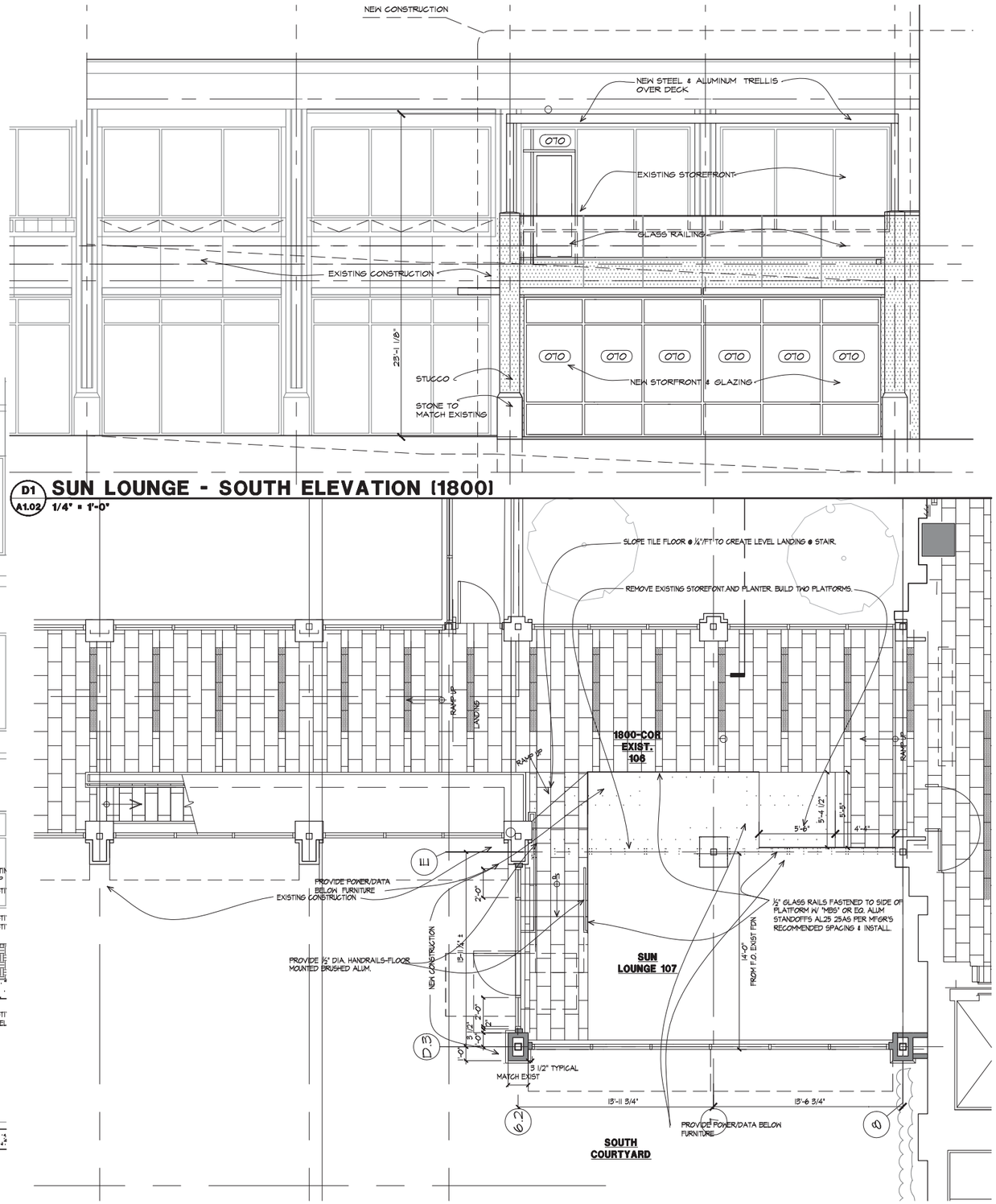


A5 A2.60 **SUN LOUNGE - SECTION (1801)**
1/4" = 1'-0"



D1 A1.02 **SUN LOUNGE - SOUTH ELEVATION (1800)**
1/4" = 1'-0"

A1 A2.60 **SUN LOUNGE - MAIN LEVEL PLAN (1800)**
1/4" = 1'-0"

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OBP 2014–2015 Revitalization
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Boulder, Colorado 80302

PROJECT # 1355
DATE: 01/20/15
DRAWN BY: HAPC
CHECKED BY: WJF/JEH
REVISIONS:

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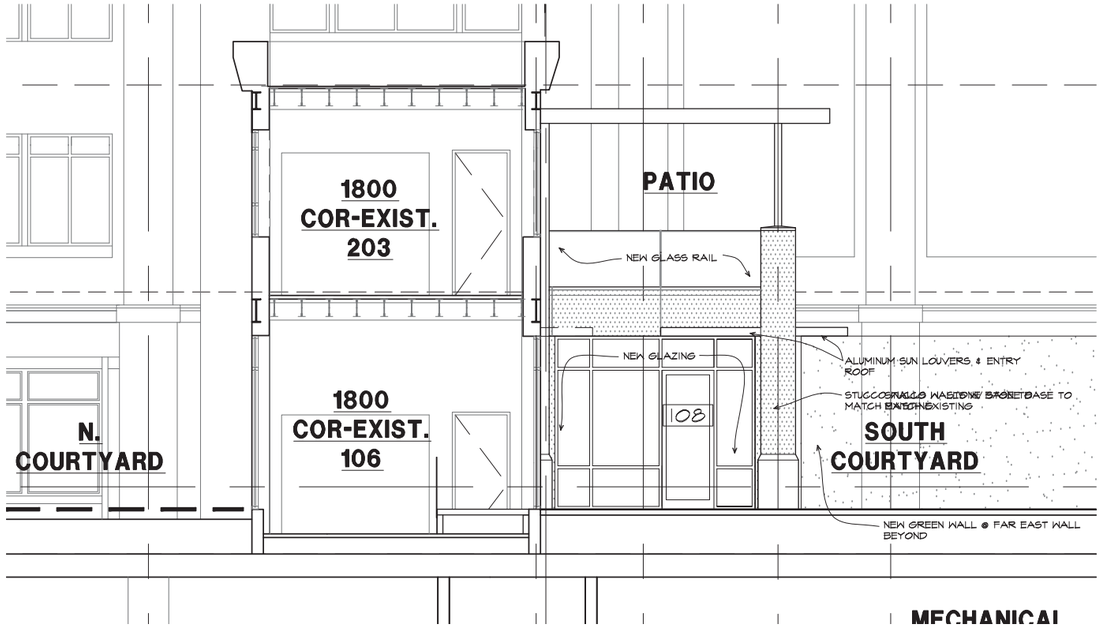
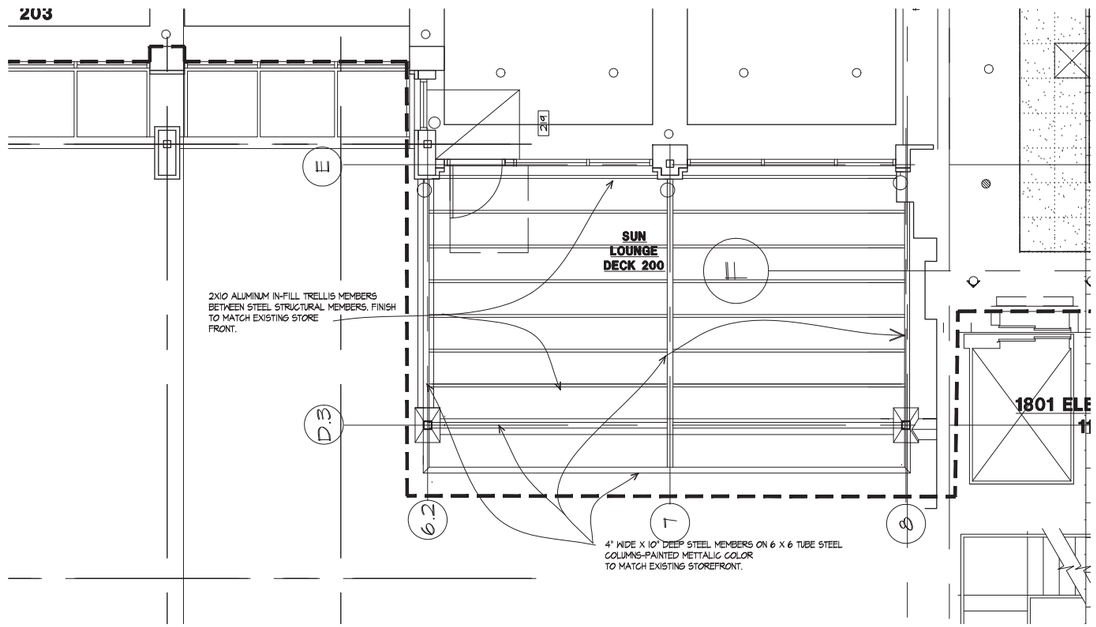
FLOOR PLAN – PARTIAL MAIN LVL

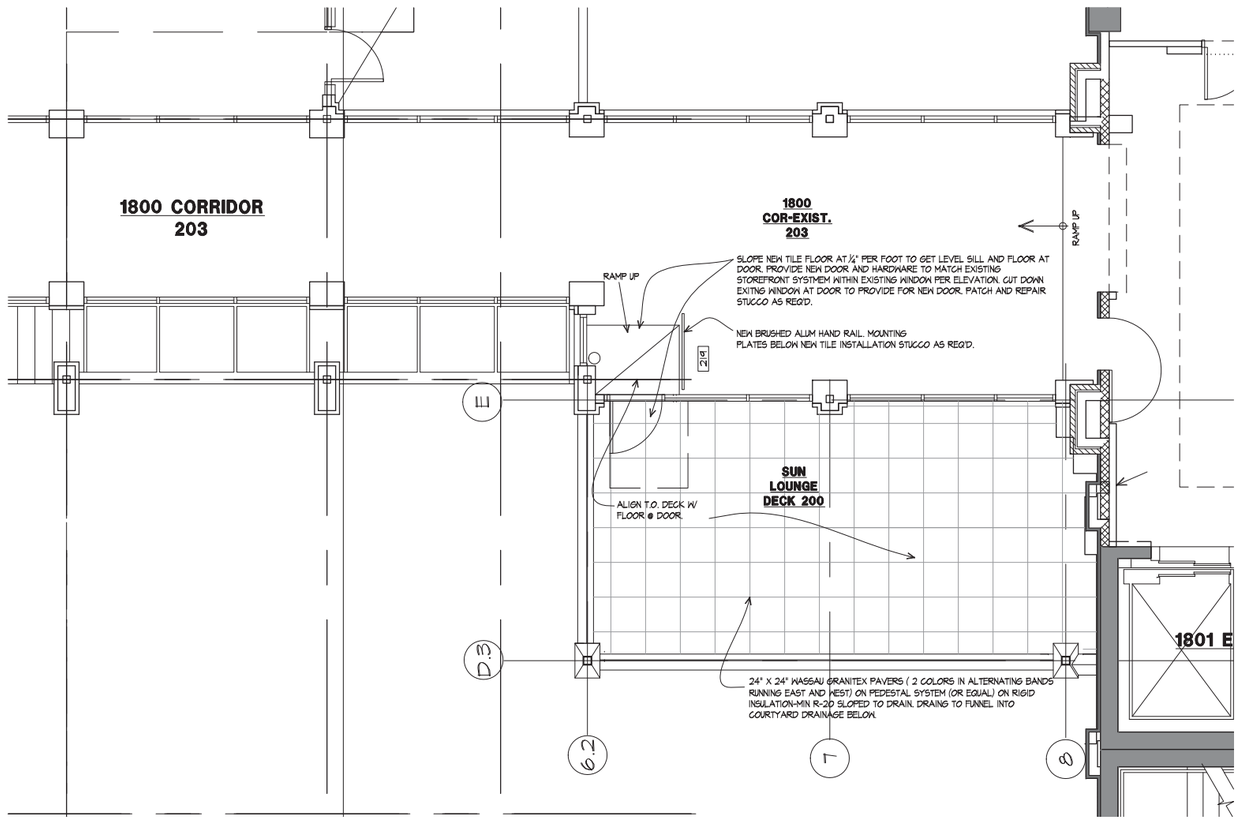
Sheet
A2.60a



D3 A1.02 **SUN LOUNGE - WEST ELEVATION (1800)**
1/4" = 1'-0"



D1 A1.02 **SUN LOUNGE - TRELLIS at 2ND FLOOR (REFLECTED CEILING)**
1/4" = 1'-0"



A1 A2.60 **SUN LOUNGE - SECOND FLOOR PLAN (1800)**
1/4" = 1'-0"

NORTH

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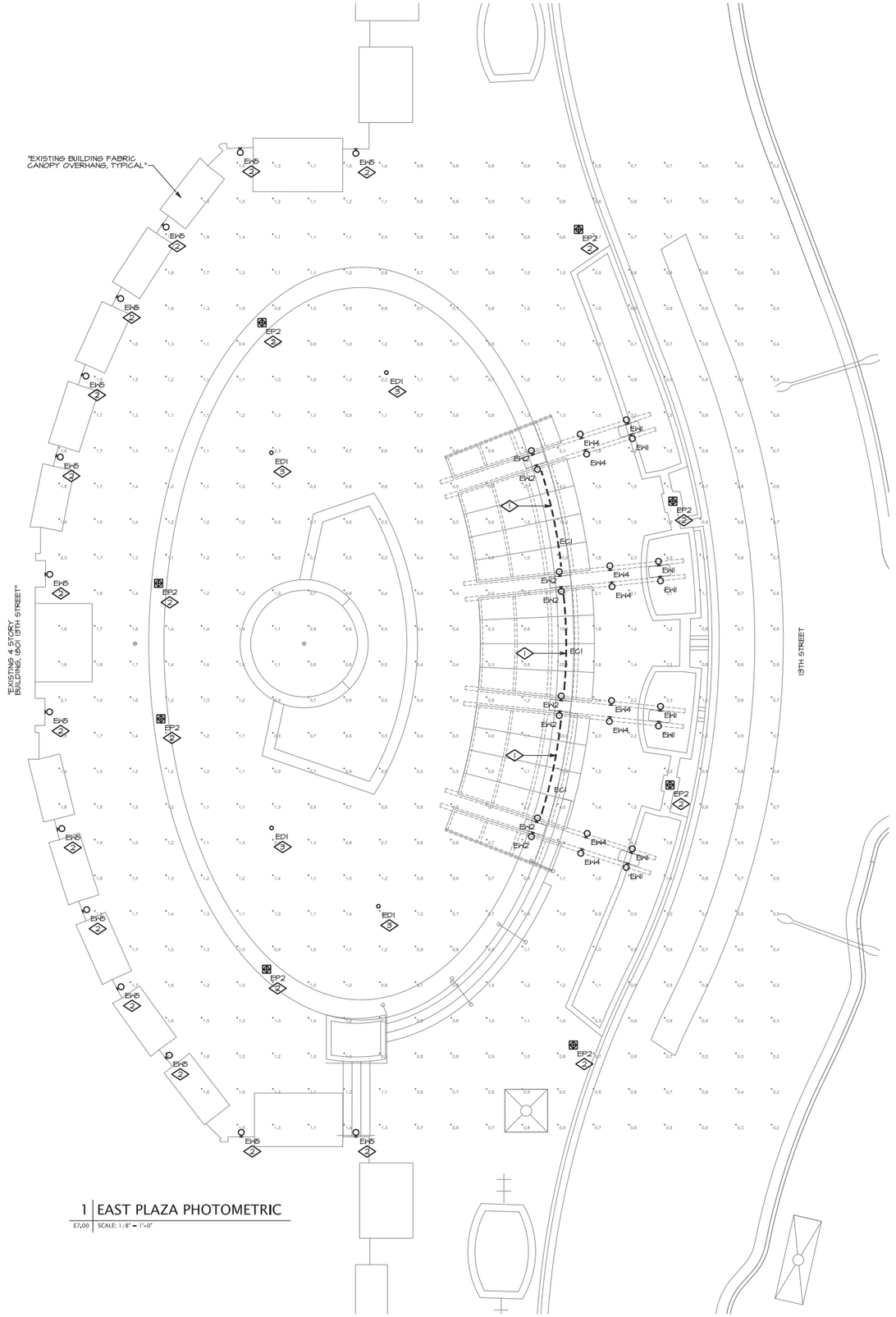
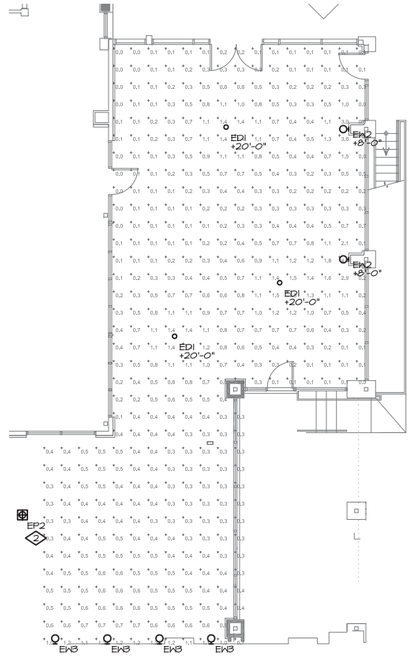
FLOOR PLAN - PARTIAL MAIN LVL

Sheet
A2.70a
of 24 Sheets



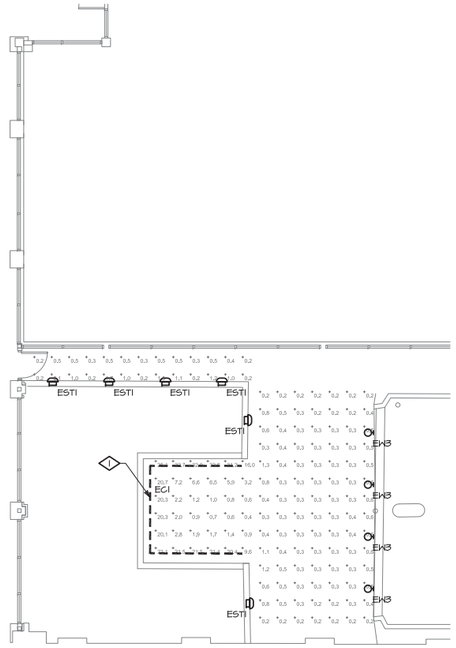
1 | EAST PLAZA PHOTOMETRIC

E7.00 | SCALE: 1/8" = 1'-0"



2 | SOUTH COURT YARD PHOTOMETRIC

E7.00 | SCALE: 1/8" = 1'-0"



3 | NORTH COURT YARD PHOTOMETRIC

E7.00 | SCALE: 1/8" = 1'-0"

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
EAST PLAZA	+	1.5 fc	4.2 fc	0.3 fc	14.0:1	5.0:1	0.4:1
NORTH COURT YARD	+	0.7 fc	2.8 fc	0.2 fc	14.0:1	3.5:1	0.3:1
SOUTH COURT YARD	+	0.5 fc	4.1 fc	0.0 fc	N/A	N/A	0.1:1

GENERAL NOTES

1. LIGHTING CALCULATIONS WERE MADE USING A LIGHT LOSS FACTOR OF 1.0.
2. CALCULATIONS WERE TAKEN AT GRADE LEVEL ON A 5'X5' GRID FOR THE PLAZA AND ON A 2'X2' GRID FOR THE NORTH AND SOUTH COURT YARDS.
3. ILLUMINANCE CONTRIBUTIONS FROM STREET LIGHTING AND ADJACENT PROPERTIES ARE NOT INCLUDED IN CALCULATIONS.
4. ALL EXTERIOR LIGHTING SHALL OPERATE 30 MINUTES PRIOR TO DUSK UNTIL 1 HOUR AFTER CLOSE.
5. APPLICABLE CODES THAT HAVE BEEN DESIGNED TO ARE 2012 IECC, 2014 NEC, AND THE BOULDER REVISED CODE.

LIGHTING FIXTURES

- A / a — LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE. TYPICAL ALL FIXTURES, SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH.
- WALL MOUNTED LUMINAIRE
- PENDANT LUMINAIRE
- BOLLARD OR POST TOP LUMINAIRE
- STEP LIGHT
- TAPE LIGHT

DETAIL NOTES

<1> UNDER BENCH LOW OUTPUT LINEAR LED, STRIP MOUNTED TO UNDER SIDE OF BENCH. ILLUMINANCE UNDER BENCH EXCEEDS ALLOWED WALKWAY ILLUMINANCE LEVELS, HOWEVER PLACEMENT OF LED CONFINES EXCESSIVE LIGHT LEVELS UNDER BENCH AND LIGHT LEVELS AT BENCH EDGE CONFORM WITH BOULDER REVISED CODE 9-9-16e TABLE 9-11.

<2> FIXTURE IS EXISTING TO REMAIN ON SITE.

<3> ED1 FIXTURE TO INCLUDE SMOKE FILTER.

EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QTY	LAMP WATT	LAMP TYPE	MAX WATTS	INITIAL LUMEN RATING	CRI	MOUNTING INFORMATION LOCATION	MOUNTING INFORMATION BOF/RFD/OFH	NOTES
EC1	LINEAR TAPE LIGHT UNDER BENCH LOW OUTPUT WIDE FLOOD, WET LOCATION	MODALIGHT	LINEAR FLEX 3000K	24	--	--	LED	1.2 /FT	91.52 /FT	85	SURFACE UNDER BENCH		1
ED1	CATENARY SUSPENDED DOWNLIGHT LED WIDE FLOOD	WINONA WINSCAPE	MILED-3024-12V-LI-BKS-C2 -SMOKE LENS	12	1	5.7	LED	5.7	210	>83	PENDANT CABLE	16'-0" BOF UON ON PLAN	2
EST1	SMALL STEP LIGHT, WHITE LED FLUSH MOUNT	MP LIGHTING	L47-6-WBOS-A-WH	12	1	6	LED	6	53	80+	SURFACE WALL	1'-0" BOF	
EN1	SMALL DOWN CONFIG WALL CYLINDER, 40 DEGREE BEAM DOWN	INTENSE LIGHTING	IVTI06L-30-40-B	120	1	3.6	LED	3.6	191	85	SURFACE WALL	9'-0" BOF	
EN2	SMALL UP/DOWN CONFIG WALL CYLINDER, 40 DEG DOWN/40 DEG UP	INTENSE LIGHTING	IVTIIL30-40-40-B	120	2	3.6	LED	7.2	191 /LAMP	85	SURFACE WALL	9'-0" BOF UON ON PLAN	
EK3	SMALL BULLET ARM MOUNT SIGN LIGHT 24° STANDOFF, WIDE SPREAD LED	WINONA WINSCAPE	WYLED-3024-12V-SIS-FO-SHO -C3-SIB	12	1	5.7	LED	5.7	210	>83	SURFACE WALL	12'-0" BOF	
EK4	SMALL BULLET BANNER LIGHT, 12" STANDOFF, WIDE SPREAD LED	WINONA WINSCAPE	PLLED-3023-12V-BKS-SI2	12	1	5.7	LED	5.7	210	>83	SURFACE WALL	12'-0" BOF	

ABBREVIATIONS: BOF - BOTTOM OF FIXTURE, RFD - RECESSED FIXTURE DEPTH, OFH - OVERALL FIXTURE HEIGHT

GENERAL NOTES:
A. ALL FINISHES TO BE CONFIRMED WITH ARCHITECT PRIOR TO ORDERING.

SPECIFIC NOTES:
1. EC SHALL PROVIDE ALL PARTS AND PIECES FOR A FULLY FUNCTIONAL LUMINAIRE INCLUDING, BUT NOT LIMITED TO, CONNECTORS, MOUNTING EQUIPMENT AND DRIVERS.
2. EC SHALL PROVIDE SMOKE FILTER AS NOTED WITH DETAIL NOTE 3 ON PLANS.

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MINOR MODIFICATION

PROJECT # 1355
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REVISIONS:

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Sheet
E7.00

EC1

modaLIGHT

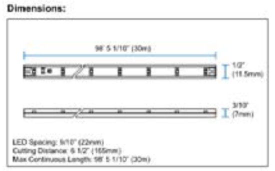
SPECIFICATION

LINEARFLEX™ 3000k

Dimmable LED Linear Flex System:

LINEARFLEX is a high quality polyepoxide flexible SSL solution. Integral IC's regulate power to each LED creating constant brightness and uniform life. Field cuttable at designated cutting points. Easy to install push to fit solderless range of wet location accessories completes a professional project. UV Protected. This product is sold by the meter, please consult factory.

Dimensions:



Output:

Delivered Lumens	91.52 lm / ft
CCT	3000k
Chromaticity Ordinates	x: 0.4342 y: 0.3985 u: 0.2512 v: 0.5188
Color Bin Tolerance	+ 3% / - 3%
Efficacy (lm/w)	76.27
CRI	85
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 Hours L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

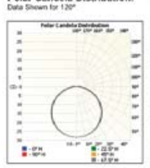
Illuminance at a Distance: Data Shown for 120°

(For lux multiply fc by 10.7)

Electrical:

Input Voltage	24v DC
Power Consumption	1.20w / ft (0.05A) - Varies based on length of run & driver
Power Factor	≤ 1
Dimming	100-277v 0-10v & Magnetic Low Voltage
Emergency	N/A

Polar Candela Distribution: Data Shown for 120°



Lumens per Zone:

Zone	Lumens	% Total
0-10	2.68	2.93%
10-20	7.72	8.44%
20-30	11.86	12.86%
30-40	14.55	15.90%
40-50	15.45	16.88%
50-60	14.43	15.77%
60-70	11.55	12.62%
70-80	7.38	8.06%
80-90	3.62	3.96%
90-100	1.86	2.03%

Physical:

Applications	Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 98' 5 1/10" (30m) Width 1/2" (11.5mm) Height 3/10" (7mm)
Weight	7.3 lbs (3.31 Kg) Per Reel
Construction	Tough Polyepoxide UV Protected Body
Thermal Management	N/A
Optics	N/A
Fixture Connections	Push To Fit Connectors
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Humidity	0-95% Non Condensing

Project Name:	Company:	P/O:	Type:	Date:
Notes:				

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SPECIFICATION

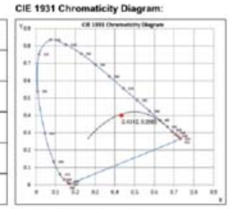
Zonal Lumen Summary:

Zone	Lumens	% Lamp	% Fixt
0-30	22.26	N.A.	24.30%
0-40	36.81	N.A.	40.20%
0-60	66.69	N.A.	72.90%
60-80	18.93	N.A.	20.70%
0-90	89.24	N.A.	97.50%
90-180	2.28	N.A.	2.50%
0-180	91.52	N.A.	100%

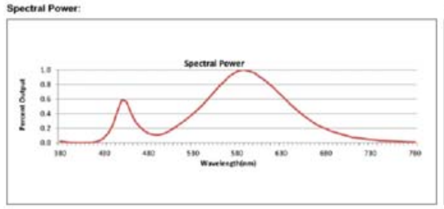
Luminance Data (cd/sq.m):

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6330	4897	4421
55	6117	4423	3812
65	5690	3723	3089
75	4962	2796	2212
85	4184	1889	1450

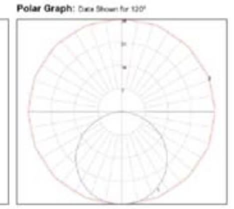
CIE 1931 Chromaticity Diagram:



Spectral Power:



Polar Graph: Data Shown for 120°



Accessories:

MRTA08	MRTA06	MRTA07	MRTA02	MRTA04	MP17	MP19	MP83	MP83-277v
5' Leader Cable	Inline Connector for LINEARFLEX	1' Jumper Cable	End Cap	Mounting Clips	24v DC 150w	24v DC 100w	24v DC 150w	24v DC 150w
Connects LINEARFLEX to Power Supply	Connects Two LINEARFLEX Together	Connects Two LINEARFLEX And Allows for Flexible Corner Bends	Attaches To LINEARFLEX To Protect FPCB From Dust or Water	Screws Into Surface To Hold LINEARFLEX	Wet Location LED Power Supply	0-10v Dimming LED Power Supply	MLV Dimming LED Power Supply	MLV Dimming LED Power Supply
Connector Dim. L: 1 7/10" (44mm) W: 1 1/5" (30mm) H: 7/10" (19mm) Cable Dim. L: 5' (1.5m)	L: 1 7/10" (44mm) W: 1 1/5" (30mm) H: 7/10" (19mm)	Connector Dim. L: 1 7/10" (44mm) W: 1 1/5" (30mm) H: 7/10" (19mm) Cable Dim. L: 1' (330mm)	L: 3/5" (16mm) W: 2/5" (10mm) H: 7/10" (18mm)	L: 1 1/10" (29mm) W: 3/10" (8mm) H: 3/10" (8mm) 2 Screws 7/10" (17mm)	Non-Dimmable			

Standards and Certifications:

Certification	Tested to UL & CSA by ETL For Use in USA & CANADA. Complies with California Title 24 Requirements. Lighting Facts. Exceeds ANSI C78.377A. CE & RoHS Compliant.
Class	Class III
Environment	Wet Location - IP68
Warranty	5 Year Limited Warranty

Ordering:

SKU: LINEARFLEX-3000K

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ED1

WINSCAPE™

Project: Qty: Type:

Millerton LED • 12V LED-16

Construction: Body and cap machined from 6061 - T6 ALUMINUM, loop made from STAINLESS STEEL. Lens cut from heat strengthened borosilicate glass for superior clarity and strength.

LED Unit:

3022-3027: Winscape proprietary replaceable LED unit using three (3) High Output LEDs and an integral low voltage (11V-14V) AC / DC LED driver and a Field replacable optic. Available in three (3) beam spreads: 10° Spot, 25° Narrow Flood, and 40° Flood. Available as STANDARD in "ANSI BIN" 3000K and 5000K color temperatures. Also available in "ANSI BIN" 2700K, 3500K, & 4000K by Special Order. Units have near constant light output when supplied with 11VAC - 14VAC to combat voltage drop. Dimmable using standard LOW VOLTAGE MAGNETIC dimming switch / systems.

Input Voltage (VAC*)	Total Current (Amps)	Wattage
8.0	0.165	1.32
9.0	0.358	3.23
10.0	0.448	4.48
11.0	0.463	5.10
12.0	0.471	5.65
12.5	0.476	5.95
13.0	0.487	6.34
14.0	0.499	6.99

* Contact factory for Current and Wattage rating for VDC.

Finishes: Available in12 Standard TGIC polyester powder coat finishes. Custom finishes available (contact factory for more information).

Features: Field replaceable lens. Any combination of up to 3 lens accessories/color filter/shielding can be specified for cap style and are held securely by a removable stainless steel clip ring. Liquid tight, strain-relief wire way with black fiberglass wire sleeve.

General: This fixture requires a MAGNETIC 12V transformer to function properly. Transformer must be purchased separately (see Accessories section on our website). Fixture designed to be hung from loop only, do NOT hang from leads. Cable support/fixture mounting (by others). Includes 6 feet of 16/2 landscape cable.

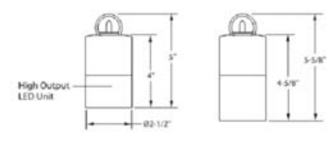
MOUNTING OPTIONS:

ETL Listed: Wet Location - Indoor/Outdoor Conforms to UL Standard 1598

1. **MILED** SERIES — MILED = MILLERTON LED
2. LIGHT SOURCE — Warm White, 3000K (ANSI BIN)**: 3022 = 6W/10°SP/3K WW LED16; 3023 = 6W/25°NFL/3K WW LED16; 3024 = 6W/40°FL/3K WW LED16. Cool White, 5000K (ANSI BIN)**: 3025 = 6W/10°SP/5K CW LED16; 3026 = 6W/25°NFL/5K CW LED16; 3027 = 6W/40°FL/5K CW LED16.
   ** See page 2 for complete luminaire performance data.
3. **12V** VOLTAGE — 12V = 12 VOLT
4. ACCESSORY LENS — L0 = NONE; L1 = PRISMATIC; L2 = LINEAR; L3 = SOFTENING
5. FINISH — BKS = BLACK SMOOTH; BKT = BLACK TEXTURED; BRS = BRONZE SMOOTH; BRT = BRONZE TEXTURED; WHS = WHITE SMOOTH; WHT = WHITE TEXTURED; SIS = SILVER SMOOTH; IVS = IVORY SMOOTH; CHS = CHROME SMOOTH; NBS = NATURAL BRONZE SMOOTH; VET = VERDE TEXTURED; SAT = SAND TEXTURED; CPF = CUSTOM FINISH
6. COLOR FILTER — F0 = NONE; FM = MERCURY VAPOR; FR = RED; FRD = RED DICHROIC; FP = PINK; FA = AMBER; FG = GREEN; FGD = GREEN DICHROIC; FLB = LIGHT BLUE; FMB = MEDIUM BLUE; FMBD = MEDIUM BLUE DICHROIC
7. SHIELDING — SH0 = NONE; SH6 = HONEYCOMB LOUVER
8. CAP STYLE — C1 = SHORT FLUSH; C2 = LENS RECESSED
9. SPECIAL — STD = STANDARD; MOD = MODIFIED

Modification Descriptions: (if needed)

Note: Winona Lighting reserves the right to make design revisions without prior notice.

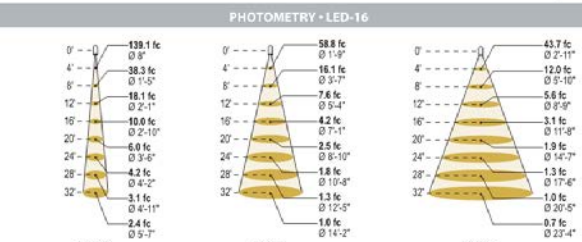


WINSCAPE™

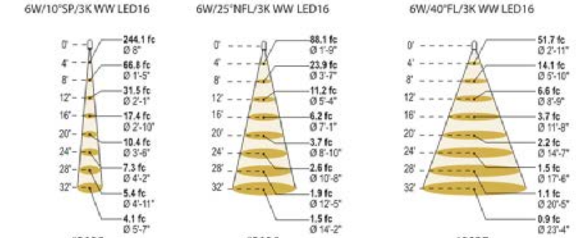
Project: Qty: Type:

Millerton LED • Additional Technical Information

PHOTOMETRY • LED-16



#3022 6W/10°SP/3K WW LED16 — #3023 6W/25°NFL/3K WW LED16 — #3024 6W/40°FL/3K WW LED16



#3025 6W/10°SP/5K CW LED16 — #3026 6W/25°NFL/5K CW LED16 — #3027 6W/40°FL/5K CW LED16

Luminaire Performance Data

Lamp Code	Description	Volts* (Vac)	Watts* (W)	Beam Spread*	Center Beam Candlepower* (cd)	Rated Life** (Hr)	CCT* (°K)	CRI* (Ra)	Luminous Flux* (LU)	Efficacy* (LU/W)
3022	6W/10°SP/3K WW LED16	12	5.8	10°	2,400	> 60,000	3040	> 83	220	38
3023	6W/25°NF/3K WW LED16	12	5.8	25°	1,000	> 60,000	3040	> 83	215	37
3024	6W/40°FL/3K WW LED16	12	5.8	40°	750	> 60,000	3040	> 83	210	36
3025	6W/10°SP/5K CW LED16	12	5.8	10°	4,200	> 60,000	5200	> 65	320	55
3026	6W/25°NF/5K CW LED16	12	5.8	25°	1,500	> 60,000	5200	> 65	300	51
3027	6W/40°FL/5K CW LED16	12	5.8	40°	890	> 60,000	5200	> 65	260	44

* All values are nominal, based on IES LM-79-08 & Photometric test data. Values may vary due to manufacturing tolerances, options selected and ambient conditions (temperature, voltage, orientation, etc...) during use.

** Rated Life based on diode manufacturer IES LM-80 test data, TM-21 projection to 70% of Initial Lumens (L70).

All information is subject to change without prior notice.
All dimensions are nominal.

WINSCAPE™

Project: Qty: Type:

Millerton LED • Additional Technical Information

LIGHTING FACTS

LM-79 & Photometric Test Data

The below are LM-79 test results using an AspenLED series luminaire; PN: ASLED-Lamp Code-12V-L0-BKS-F0-SH0-C1-STD

Lamp Code	Description	Volts* (Vac)	Watts* (W)	Center Beam Candlepower** (cd)	CCT* (°K)	CRI* (Ra)	Luminous Flux* (LU)	Efficacy* (LU/W)
3022	6W/10°SP/3K WW LED16	11.9	5.2	2,433	3012.3	85.3	213.7	41.10
3022	6W/10°SP/3K WW LED16	14.1	7.2	N/A	3015.0	85.0	246.6	34.25
3023	6W/25°SP/3K WW LED16	12.1	5.7	1,019	3064.4	83.4	215.0	37.85
3024	6W/40°SP/3K WW LED16	12.0	5.7	757	3041.5	84.3	218.8	38.39
3025	6W/10°SP/5K CW LED16	12.0	5.7	4,252	5220.8	67.0	318.5	55.88
3025	6W/10°SP/5K CW LED16	14.1	7.4	N/A	5207.0	67.4	344.8	46.59
3026	6W/25°SP/5K CW LED16	12.0	5.8	1,531	5207.9	67.4	299.5	51.46
3027	6W/40°SP/5K CW LED16	12.1	5.7	896	5194.8	66.8	271.9	47.53

* Information from IES LM-79-08 test results (LTL22353S, LTL22392S, LTL22352S, LTL22351S, LTL22350S, LTL22393S, LTL22349S, LTL22348S).
** Information from Photometric test results (LTL22353, LTL22352, LTL22351, LTL22350, LTL22349, LTL22348).

LIGHTING FACTS - Coming Soon
LM-79-08 tests have been submitted to Lighting Facts and are awaiting approval.

1900 Wazee Street, Suite #350
Denver, Colorado 80202
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aedesign@aedesign-inc.com
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ARCHITECTURAL ENGINEERING DESIGN GROUP, INC.
AEDG JOB# 2861.00

One Boulder Plaza
OBP 2014–2015 Revitalization
1800 Broadway & 1801 13th St
Boulder, Colorado 80302

MINOR MODIFICATION

PROJECT # 1355
DATE: 01/20/15
DRAWN BY: VRP
CHECKED BY: JEM
REVISIONS:

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Sheet
E7.01
21 Sheets

ESTI

EWI

EW2

[MP LIGHTING]

L47

Application: Exterior/interior wall, stair, and walkway illumination.

Electrical: 3W, 350mA or 6W, 700mA LED.

Power Consumption: 4W / 8W

Power Supply: DC -Powered by integral 120V primary, LEDBW350L, 8W 350mA (3W) or LEDBW700L, 8W 700mA (6W) non-dimmable LED driver. Recommended TLDAV60W9 driver (not included). Dimmable with dimming controller TLCB10, 0-10V dimming (not included). AC -Recommended TLM120MT06A-01 magnetic transformer (not included). Consult factory for dimming option.

Weight: 1.5lbs (0.68kg).

Material: Solid anodized aluminum or stainless steel 316 with polycarbonate lens.

Mounting: Mounts to vertically orientated single gang box only. Box opening must be 2-3/8" wide by 2" tall minimum. Suggested boxes include Scepter F.D. Blank and Iberville BC1110. (J-box not included).

IP rating: 66

Approval: Wet and dry locations. Approved to US and Canadian standards by CSA.

Emergency Driver options (remote):

MP Lighting Emergency Backup Unit:
Input: 100-277V, 50/60Hz / Output: 11-30V, 16W

Bodine Emergency Micro Inverter
Input: 120/277V, 50/60Hz / Output: 120/277V, 60Hz, 20W

Type:

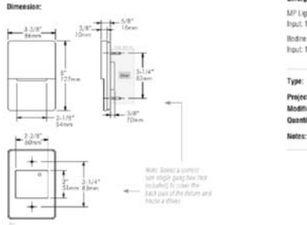
Project:

Modified:

Quantity:

Notes:

Dimension:



Code	Wattage	Color	Input Voltage	Finish
L47 -		W30S		-

3 = 3W
6 = 6W

W30S = 3000K, std CRI

A = 120V AC
D = DC

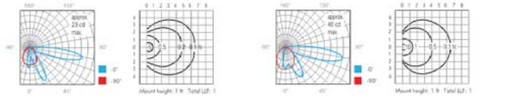
NA = matte clear anodized
SA = stainless steel 316
BZ = bronze
WH = white

Specification Sheet / Wall Mount / L47

[MP LIGHTING]

PHOTOMETRIC DATA:

3W, 3000K 80+ CRI		6W, 3000K 80+ CRI	
Polar Candela Distribution	Illuminance at a Distance	Polar Candela Distribution	Illuminance at a Distance
Lumen: 29lm		Lumen: 53lm	



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www.mplighting.com t 1.877.708.1184 f 604.708.1185
01-2014

vortech

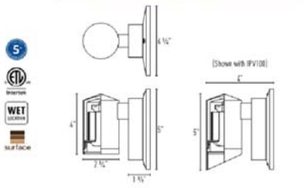
IVT106L

LED Wall Mount Mini Cylinder Downlight

LED | GEN2

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

For use with a 4" x 4" junction box



Catalog Number	System Wattage*	Delivered Lumens**
IVT106L40-12	3.6W	227 lm @ 4000K
IVT106L40-20	3.6W	235 lm @ 4000K
IVT106L40-30	3.6W	256 lm @ 4000K
IVT106L40-40	3.6W	191 lm @ 4000K

* System wattage include driver and LED module consumption.
** Delivered lumen output will vary depending on CCT.

SPECIFICATION:
Example: IVT106L27-30SS-27-IPV100

IVT106L	SERIES LED Cylinder with 4" Square Canopy
27 30 35 40	CCT 2700K 3000K 3500K 4000K
-12 -20 -30 -40	BEAM SPREAD 12° Narrow Spot 20° Spot 30° Narrow Flood 40° Flood
B BR ST SS	FINISH Black Aluminum Bronze Aluminum Brushed Stainless Steel Surface*†
blank -27	INPUT VOLTAGE 120V 277V
-IPV100	ACCESSORY 45° Cutoff Directional Shield

Notes:
1. Custom powder coat finishes available, consult factory.
Minimum order quantity apply.
2. See Surface™ simulated natural finishes submittal sheet for specification.

ACCESSORIES:
Luminaire will accommodate up to (2) 1 ¼" filters, media holder required.

LH3	MEDIA HOLDER Media holder

FILTER MEDIA		COLOR FILTERS	
PFL1-S	Prismatic Spread Lens	PLB-S	Amber Lens
PFL2-S	Linear Spread Lens	PLR-S	Red Lens
PFL3-S	Sand Blasted Lens	PLY-S	Yellow Lens
PFL4-S	Sidite Lens	PLG-S	Green Lens
PFL16B-S	Black Hex Louver	PLB-S	Blue Lens

DESCRIPTION
The Vortech mini cylinder downlight fixtures are available in 316 stainless steel or die-cast aluminum. The 316 stainless steel is of marine grade quality and has superior corrosion resistance. Die-cast aluminum is available in powder coated black or bronze. Custom powder coat finishes are available, consult factory. To ensure the natural appearance of stainless steel, regular cleaning is necessary.

FEATURES
- Aesthetic appearance
- Indoor / outdoor applications
- Back plate allows fixture to mount flush against the wall without exposed back plate

LED LIGHT ENGINE
- High output CREE XPG2 LED
- 3.6 Watts and 200+ Lumens per LED
- 9-15V AC/DC Input
- 2700K, 3000K, 3500K and 4000K
- 40,000 hours average rated life at 70% output
- 12° Narrow Spot, 20° Spot, 30° Narrow Flood and 40° Flood
- Field interchangeable optics
- IP67 Rated

ELECTRICAL (INTEGRAL 12V LED DRIVER)
- 120V or 277V input, must specify

MOUNTING
Square canopy for 4" x 4" junction box

MAINTENANCE
Stainless steel requires regular cleaning and maintenance to prevent tarnishing or tea staining.

SURFACE™ SIMULATED NATURAL FINISHES
- Available in 12 standard wood grain powder coated finishes
- Consult factory

ACCESSORIES
LH3: Lens cap accommodates accessory holder. Allows the use of up-to (2) 1 ¼" media/color filters. Filters must be ordered separately.

IPV100: Directional shield provides 45° cutoff. Specify at the end of part number. Factory installed.

LISTING / WARRANTY
- ETL listed to US and Canadian standards for wet locations.
- 5-Year Intense Exterior Limited LED Warranty

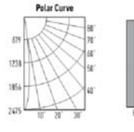
Intense Lighting | 3340 E La Palma Ave. | Anaheim, CA 92806 | Phone: 1.800.961.5321 | Fax: 1.800.961.5322 | www.intenselighting.com
Note: Specifications and dimensions subject to change without notice.

intense LIGHTING

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

IVT106L40-12
(12° Narrow Spot)

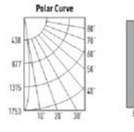
Report #: L11135081
Luminaire Watts: 3.76W
Luminaire Lumens: 226.76 lm
Lumens Per Watt: 60
Color Temperature: 3790K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	1'	1.9'	2.9'	3.8'	4.8'
Illuminance (fc)	155	38.7	17.2	9.7	6.2

IVT106L40-20
(20° Spot)

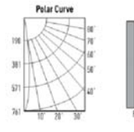
Report #: L11135082
Luminaire Watts: 3.76W
Luminaire Lumens: 235.44 lm
Lumens Per Watt: 63
Color Temperature: 3792K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	1.1'	2.2'	3.3'	4.5'	5.6'
Illuminance (fc)	160	27.4	12.2	6.9	4.4

IVT106L40-30
(30° Narrow Flood)

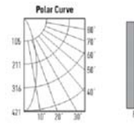
Report #: L11135083
Luminaire Watts: 3.76W
Luminaire Lumens: 265.83 lm
Lumens Per Watt: 54
Color Temperature: 3760K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	1.7'	3.4'	5.1'	6.8'	8.6'
Illuminance (fc)	47.6	11.9	5.3	3	1.9

IVT106L40-40
(40° Flood)

Report #: L11144281
Luminaire Watts: 3.6W
Luminaire Lumens: 191.12 lm
Lumens Per Watt: 53
Color Temperature: 3760K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	2.1'	4.2'	6.4'	8.6'	10.7'
Illuminance (fc)	26.3	6.6	2.9	1.6	1.1

All testing was conducted in accordance with **LM-79-08**, Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products as published by the Illuminating Engineering Society of North America (IESNA).

Intense Lighting | 3340 E La Palma Ave. | Anaheim, CA 92806 | Phone: 1.800.961.5321 | Fax: 1.800.961.5322 | www.intenselighting.com
Note: Specifications and dimensions subject to change without notice.

vortech

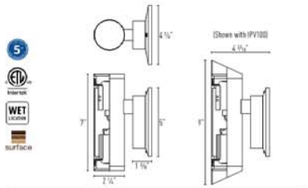
IVT111L

LED Wall Mount Mini Cylinder Up / Downlight

LED | GEN2

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

For use with a 4" x 4" junction box



Catalog Number	System Wattage*	Delivered Lumens Per LED**
IVT111L40-12-12	7.6W	227 lm per LED @ 4000K
IVT111L40-20-20	7.6W	235 lm per LED @ 4000K
IVT111L40-30-30	7.6W	256 lm per LED @ 4000K
IVT111L40-40-40	7.2W	191 lm per LED @ 4000K

* System wattage include driver and LED module consumption.
** Delivered Lumen output will vary depending on CCT.

SPECIFICATION:
Example: IVT111L27-30-2SS1-27-IPV100

IVT111L	SERIES LED Cylinder with 4" Square Canopy
27 30 35 40	CCT 2700K 3000K 3500K 4000K
-12 -20 -30 -40	UP LIGHT OPTIC 12° Narrow Spot 20° Spot 30° Narrow Flood 40° Flood
-12 -20 -30 -40	DOWN LIGHT OPTIC 12° Narrow Spot 20° Spot 30° Narrow Flood 40° Flood
B BR ST SS	FINISH† Black Aluminum Bronze Aluminum Brushed Stainless Steel Surface*†
blank -27	INPUT VOLTAGE 120V 277V
-IPV100	ACCESSORY 45° Cutoff Directional Shield

Notes:
1. Custom powder coat finishes available, consult factory.
Minimum order quantity apply.
2. See Surface™ simulated natural finishes submittal sheet for specification.

ACCESSORIES:
Luminaire will accommodate up to (2) 1 ¼" filters, media holder required.

LH3	MEDIA HOLDER Media holder

FILTER MEDIA		COLOR FILTERS	
PFL1-S	Prismatic Spread Lens	PLB-S	Amber Lens
PFL2-S	Linear Spread Lens	PLR-S	Red Lens
PFL3-S	Sand Blasted Lens	PLY-S	Yellow Lens
PFL4-S	Sidite Lens	PLG-S	Green Lens
PFL16B-S	Black Hex Louver	PLB-S	Blue Lens

DESCRIPTION
The Vortech mini cylinder up / downlight fixtures are available in 316 stainless steel or die-cast aluminum. The 316 stainless steel is of marine grade quality and has superior corrosion resistance. Die-cast aluminum is available in powder coated black or bronze. Custom powder coat finishes are available, consult factory. To ensure the natural appearance of stainless steel, regular cleaning is necessary.

FEATURES
- Aesthetic appearance
- Indoor / outdoor applications
- Back plate allows fixture to mount flush against the wall without exposed back plate

LED LIGHT ENGINE
- High output CREE XPG2 LED
- 3.6 Watts and 200+ Lumens per LED
- 9-15V AC/DC Input
- 2700K, 3000K, 3500K and 4000K
- 40,000 hours average rated life at 70% output
- 12° Narrow Spot, 20° Spot, 30° Narrow Flood and 40° Flood
- Field interchangeable optics
- IP67 Rated

ELECTRICAL (INTEGRAL 12V LED DRIVER)
- 120V or 277V input, must specify

MOUNTING
Square canopy for 4" x 4" junction box

MAINTENANCE
Stainless steel requires regular cleaning and maintenance to prevent tarnishing or tea staining.

SURFACE™ SIMULATED NATURAL FINISHES
- Available in 12 standard wood grain powder coated finishes
- Consult factory

ACCESSORIES
LH3: Lens cap accommodates accessory holder. Allows the use of up-to (2) 1 ¼" media/color filters. Filters must be ordered separately.

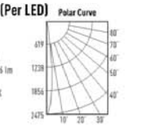
IPV100: Directional shield provides 45° cutoff. Specify at the end of part number. Factory installed.

LISTING / WARRANTY
- ETL listed to US and Canadian standards for wet locations.
- 5-Year Intense Exterior Limited LED Warranty

Intense Lighting | 3340 E La Palma Ave. | Anaheim, CA 92806 | Phone: 1.800.961.5321 | Fax: 1.800.961.5322 | www.intenselighting.com
Note: Specifications and dimensions subject to change without notice.

IVT111L40-12 (Per LED)
(12° Narrow Spot)

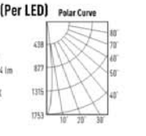
Report #: L11135081
Luminaire Watts: 3.74W
Luminaire Lumens: 224.76 lm
Lumens Per Watt: 60
Color Temperature: 3790K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	1'	1.9'	2.9'	3.8'	4.8'
Illuminance (fc)	155	38.7	17.2	9.7	6.2

IVT111L40-20 (Per LED)
(20° Spot)

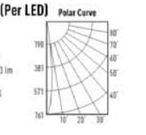
Report #: L11135082
Luminaire Watts: 3.74W
Luminaire Lumens: 235.44 lm
Lumens Per Watt: 63
Color Temperature: 3792K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	1.1'	2.2'	3.3'	4.5'	5.6'
Illuminance (fc)	160	27.4	12.2	6.9	4.4

IVT111L40-30 (Per LED)
(30° Narrow Flood)

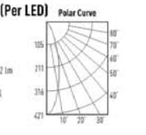
Report #: L11135083
Luminaire Watts: 3.74W
Luminaire Lumens: 295.83 lm
Lumens Per Watt: 54
Color Temperature: 3760K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	1.7'	3.4'	5.1'	6.8'	8.6'
Illuminance (fc)	47.6	11.9	5.3	3	1.9

IVT111L40-40 (Per LED)
(40° Flood)

Report #: L11144281
Luminaire Watts: 3.6W
Luminaire Lumens: 191.12 lm
Lumens Per Watt: 53
Color Temperature: 3760K



Throw Distance (ft)	4'	8'	12'	16'	20'
Beam Diameter	2.1'	4.2'	6.4'	8.6'	10.7'
Illuminance (fc)	26.3	6.6	2.9	1.6	1.1

All testing was conducted in accordance with **LM-79-08**, Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products as published by the Illuminating Engineering Society of North America (IESNA).

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ARCHITECTURAL ENGINEERING DESIGN GROUP, INC.
AEDG 7687 2881.00

One Boulder Plaza
OBP 2014–2015 Revitalization
1800 Broadway & 1801 13th St
Boulder, Colorado 80302

MINOR MODIFICATION

PROJECT # 1355
DATE: 01/20/15
DRAWN BY: VRP
CHECKED BY: JEM
REVISIONS:

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Sheet
E7.02
21 Sheets

EW3

WINSCAPE™ Project: Qty: Type:

Wyndham LED • 12V LED-16

sign

QUICK FIND #: QF-45

1. **WYLED** SERIES — WYLED = WYNDHAM LED

2. LIGHT SOURCE
   - **Warm White, 3000K (ANSI BIN)****
     - 3022 = 6W/10°SP/3K WW LED16
     - 3023 = 6W/25°NFL/3K WW LED16
     - 3024 = 6W/40°FL/3K WW LED16
   - **Cool White, 5000K (ANSI BIN)****
     - 3025 = 6W/10°SP/5K CW LED16
     - 3026 = 6W/25°NFL/5K CW LED16
     - 3027 = 6W/40°FL/5K CW LED16
   - ** See page 2 for complete luminaire performance data.

3. **12V** VOLTAGE — 12V = 12 VOLT

4. ACCESSORY LENS — L0 = NONE, L1 = PRISMATIC, L2 = LINEAR, L3 = SOFTENING, L4 = WATERSHED*

5. FINISH — BKS = BLACK SMOOTH, BKT = BLACK TEXTURED, BRS = BRONZE SMOOTH, BRT = BRONZE TEXTURED, WHS = WHITE SMOOTH, WHT = WHITE TEXTURED, SIS = SILVER SMOOTH, IVS = IVORY SMOOTH, CHS = CHROME SMOOTH, NBS = NATURAL BRONZE SMOOTH, VET = VERDE TEXTURED, SAT = SAND TEXTURED, CPF = CUSTOM FINISH

6. COLOR FILTER — F0 = NONE, FM = MERCURY VAPOR, FR = RED, FRD = RED DICHROIC, FP = PINK, FA = AMBER, FG = GREEN, FGD = GREEN DICHROIC, FLB = LIGHT BLUE, FMB = MEDIUM BLUE, FMBD = MEDIUM BLUE DICHROIC

7. SHIELDING — SH0 = NONE, SH6 = HONEYCOMB LOUVER

8. CAP STYLE — C1 = SHORT FLUSH, C2 = LENS RECESSED, C3 = 45° CUTOFF, C4 = LONG FLUSH, C5 = 45° SCALLOPED

9. STEM LENGTH — S6 = 6" STEM, S12 = 12" STEM, S18 = 18" STEM, S24 = 24" STEM, S30 = 30" STEM, S36 = 36" STEM

10. SPECIAL — STD = STANDARD, MOD = MODIFIED

Modification Descriptions: (if needed)

Construction: Body, cap, stem, and mount machined from 6061 - T6 ALUMINUM. Lens cut from heat strengthened borosilicate glass for superior clarity and strength.
LED Unit:
3022-3027: Winscape proprietary replaceable LED unit using three (3) High Output LEDs and an integral low voltage (11V-14V) AC / DC LED driver and a Field replaceable optic. Available in three (3) beam spreads: 10° Spot, 25° Narrow Flood, and 40° Flood. Available as STANDARD in "ANSI BIN" 3000K and 5000K color temperatures. Also available in "ANSI BIN" 2700K, 3500K, & 4000K by Special Order. Units have near constant light output when supplied with 11VAC - 14VAC to combat voltage drop. Dimmable using standard LOW VOLTAGE MAGNETIC dimming switch / systems.

Input Voltage (VAC*)	Total Current (Amps)	Wattage
8.0	0.165	1.32
9.0	0.358	3.23
10.0	0.448	4.48
11.0	0.463	5.10
12.0	0.471	5.65
12.5	0.476	5.95
13.0	0.487	6.34
14.0	0.499	6.99

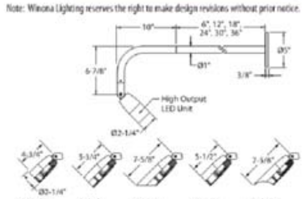
* Contact factory for Current and Wattage rating for VDC.

Finishes: Available in 12 standard TGIC polyester powder coat finishes. Custom powdercoat finishes available (contact factory for more information).
Features: Field replaceable lens. Tapered "Sure Lock" knuckle seat for infinite aiming and an unparalleled locking ability. Any combination of up to 3 lens accessories/color filter/shielding can be specified in any cap style and are held securely by a removable stainless steel clip ring. Fixture supplied with 2 feet of 12/2 landscape cable (protruding from back of mount plate).
General: This fixture requires a low voltage MAGNETIC transformer to function properly. Magnetic transformer must be purchased separately (see Accessories section on our website). Mounts to a standard 4" round wet location J-box. J-box must be mounted securely to hold weight of fixture. Includes gasket and stainless mounting screws.

MOUNTING OPTIONS: WALL MOUNT

ETL Listed: Wet Location - Indoor/Outdoor. Conforms to UL Standard 1598

Note: Winona Lighting reserves the right to make design revisions without prior notice.



EW4

QUICK FIND #: QF-41

- 3025 = 6W/10°SP/5K CW LED16
- 3026 = 6W/25°NFL/5K CW LED16
- 3027 = 6W/40°FL/5K CW LED16
- ** See page 2 for complete luminaire performance data.

3. **12V** VOLTAGE — 12V = 12 VOLT

4. ACCESSORY LENS — L0 = NONE, L1 = PRISMATIC, L2 = LINEAR, L3 = SOFTENING, L4 = WATERSHED*

5. FINISH — BKS = BLACK SMOOTH, BKT = BLACK TEXTURED, BRS = BRONZE SMOOTH, BRT = BRONZE TEXTURED, WHS = WHITE SMOOTH, WHT = WHITE TEXTURED, SIS = SILVER SMOOTH, IVS = IVORY SMOOTH, CHS = CHROME SMOOTH, NBS = NATURAL BRONZE SMOOTH, VET = VERDE TEXTURED, SAT = SAND TEXTURED, CPF = CUSTOM FINISH

6. COLOR FILTER — F0 = NONE, FM = MERCURY VAPOR, FR = RED, FRD = RED DICHROIC, FP = PINK, FA = AMBER, FG = GREEN, FGD = GREEN DICHROIC, FLB = LIGHT BLUE, FMB = MEDIUM BLUE, FMBD = MEDIUM BLUE DICHROIC

7. SHIELDING — SH0 = NONE, SH6 = HONEYCOMB LOUVER

8. CAP STYLE — C1 = SHORT FLUSH, C2 = LENS RECESSED, C3 = 45° CUTOFF, C4 = LONG FLUSH, C5 = 45° SCALLOPED

9. STEM LENGTH — S6 = 6" STEM, S12 = 12" STEM, S18 = 18" STEM, S24 = 24" STEM, S30 = 30" STEM, S36 = 36" STEM, S42 = 42" STEM, S48 = 48" STEM

10. SPECIAL — STD = STANDARD, MOD = MODIFIED

Modification Descriptions: (if needed)

Construction: Body, cap, stem, and mount machined from 6061 - T6 ALUMINUM. Lens cut from heat strengthened borosilicate glass for superior clarity and strength.
LED Unit:
3022-3027: Winscape proprietary replaceable LED unit using three (3) High Output LEDs and an integral low voltage (11V-14V) AC / DC LED driver and a Field replaceable optic. Available in three (3) beam spreads: 10° Spot, 25° Narrow Flood, and 40° Flood. Available as STANDARD in "ANSI BIN" 3000K and 5000K color temperatures. Also available in "ANSI BIN" 2700K, 3500K, & 4000K by Special Order. Units have near constant light output when supplied with 11VAC - 14VAC to combat voltage drop. Dimmable using standard LOW VOLTAGE MAGNETIC dimming switch / systems.

Input Voltage (VAC*)	Total Current (Amps)	Wattage
8.0	0.165	1.32
9.0	0.358	3.23
10.0	0.448	4.48
11.0	0.463	5.10
12.0	0.471	5.65
12.5	0.476	5.95
13.0	0.487	6.34
14.0	0.499	6.99

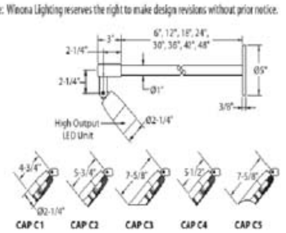
* Contact factory for Current and Wattage rating for VDC.

Finishes: Available in 12 standard TGIC polyester powder coat finishes. Custom powdercoat finishes available (contact factory for more information).
Features: Field replaceable lens. Tapered "Sure Lock" knuckle seat for infinite aiming and an unparalleled locking ability. Any combination of up to 3 lens accessories/color filter/shielding can be specified in any cap style and are held securely by a removable stainless steel clip ring. Fixture supplied with 2 feet of 12/2 landscape cable (protruding from back of mount plate).
General: This fixture requires a low voltage MAGNETIC transformer to function properly. Magnetic transformer must be purchased separately (see Accessories section on our website). Mounts to a standard 4" round wet location J-box. J-box must be mounted securely to hold weight of fixture. Includes gasket and stainless mounting screws.

MOUNTING OPTIONS: WALL MOUNT

ETL Listed: Wet Location - Indoor/Outdoor. Conforms to UL Standard 1598

Note: Winona Lighting reserves the right to make design revisions without prior notice.

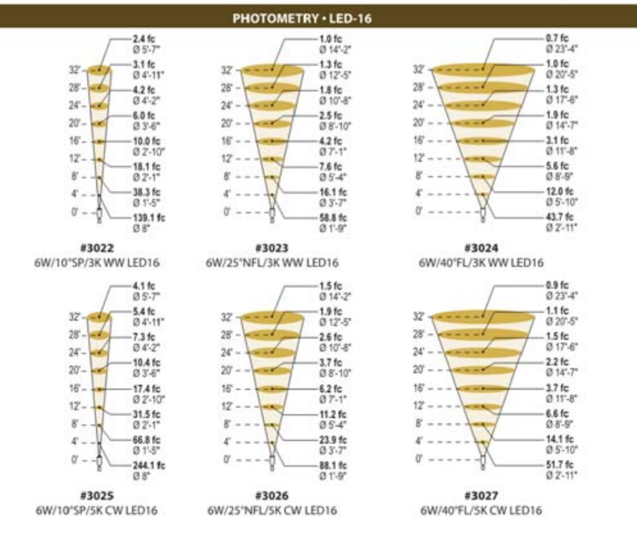


WINSCAPE™ Project: Qty: Type:

Placer LED • Additional Technical Information

sign

PHOTOMETRY • LED-16



Luminaire Performance Data

Lamp Code	Description	Volts* (Vac)	Watts* (W)	Beam Spread*	Center Beam Candlepower* (cd)	Rated Life** (Hr)	CCT* (°K)	CRI* (Ra)	Luminous Flux* (LU)	Efficacy* (LU/W)
3022	6W/10°SP/3K WW LED16	12	5.8	10°	2,400	> 60,000	3040	> 83	220	38
3023	6W/25°NF/3K WW LED16	12	5.8	25°	1,000	> 60,000	3040	> 83	215	37
3024	6W/40°FL/3K WW LED16	12	5.8	40°	750	> 60,000	3040	> 83	210	36
3025	6W/10°SP/5K CW LED16	12	5.8	10°	4,200	> 60,000	5200	> 65	320	55
3026	6W/25°NF/5K CW LED16	12	5.8	25°	1,500	> 60,000	5200	> 65	300	51
3027	6W/40°FL/5K CW LED16	12	5.8	40°	890	> 60,000	5200	> 65	260	44

* All values are nominal, based on IES LM-79-08 & Photometric test data. Values may vary due to manufacturing tolerances, options selected and ambient conditions (temperature, voltage, orientation, etc....) during use.
** Rated Life based on diode manufacturer IES LM-80 test data, TM-21 projection to 70% of Initial Lumens (L70).

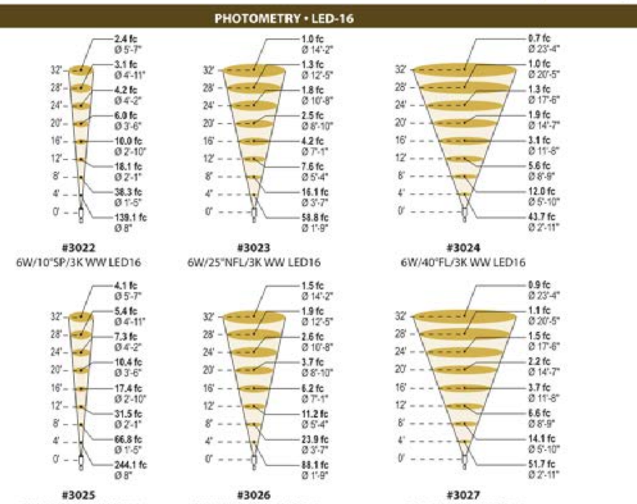
All information is subject to change without prior notice.
All dimensions are nominal.

WINSCAPE™ Project: Qty: Type:

Wyndham LED • Additional Technical Information

sign

PHOTOMETRY • LED-16



Luminaire Performance Data

Lamp Code	Description	Volts* (Vac)	Watts* (W)	Beam Spread*	Center Beam Candlepower* (cd)	Rated Life** (Hr)	CCT* (°K)	CRI* (Ra)	Luminous Flux* (LU)	Efficacy* (LU/W)
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All information is subject to change without prior notice.
All dimensions are nominal.

WINSCAPE™ Project: Qty: Type:

Wyndham LED • Additional Technical Information

sign

LIGHTING FACTS

LM-79 & Photometric Test Data

The below are LM-79 test results using an AspenLED series luminaire; PN: ASLED-Lamp Code-12V-L0-BKS-F0-SH0-C1-STD

Lamp Code	Description	Volts* (Vac)	Watts* (W)	Center Beam Candlepower** (cd)	CCT* (°K)	CRI* (Ra)	Luminous Flux* (LU)	Efficacy* (LU/W)
3022	6W/10°SP/3K WW LED16	11.9	5.2	2,433	3012.3	85.3	213.7	41.10
3022	6W/10°SP/3K WW LED16	14.1	7.2	N/A	3015.0	85.0	246.6	34.25
3023	6W/25°SP/3K WW LED16	12.1	5.7	1,019	3064.4	83.4	215.0	37.85
3024	6W/40°SP/3K WW LED16	12.0	5.7	757	3041.5	84.3	218.8	38.39
3025	6W/10°SP/5K CW LED16	12.0	5.7	4,252	5220.8	67.0	318.5	55.88
3025	6W/10°SP/5K CW LED16	14.1	7.4	N/A	5207.0	67.4	344.8	46.59
3026	6W/25°SP/5K CW LED16	12.0	5.8	1,531	5207.9	67.4	299.5	51.46
3027	6W/40°SP/5K CW LED16	12.1	5.7	896	5194.8	66.8	271.9	47.53

* Information from IES LM-79-08 test results (LTL223535, LTL223925, LTL223525, LTL223515, LTL223505, LTL223935, LTL223495, LTL223485).
** Information from Photometric test results (LTL22353, LTL22352, LTL22351, LTL22350, LTL22349, LTL22348).

LIGHTING FACTS - Coming Soon
LM-79-08 tests have been submitted to Lighting Facts and are awaiting approval.

WINSCAPE™ Project: Qty: Type:

Placer LED • Additional Technical Information

sign

LIGHTING FACTS

LM-79 & Photometric Test Data

The below are LM-79 test results using an AspenLED series luminaire; PN: ASLED-Lamp Code-12V-L0-BKS-F0-SH0-C1-STD

Lamp Code	Description	Volts* (Vac)	Watts* (W)	Center Beam Candlepower** (cd)	CCT* (°K)	CRI* (Ra)	Luminous Flux* (LU)	Efficacy* (LU/W)
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LIGHTING FACTS - Coming Soon
LM-79-08 tests have been submitted to Lighting Facts and are awaiting approval.

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AEDG JOB# 2861.00

One Boulder Plaza
OBP 2014–2015 Revitalization
1800 Broadway & 1801 13th St
Boulder, Colorado 80302

MINOR MODIFICATION

PROJECT # 1355
DATE: 01/20/15
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CHECKED BY: JEM
REVISIONS:

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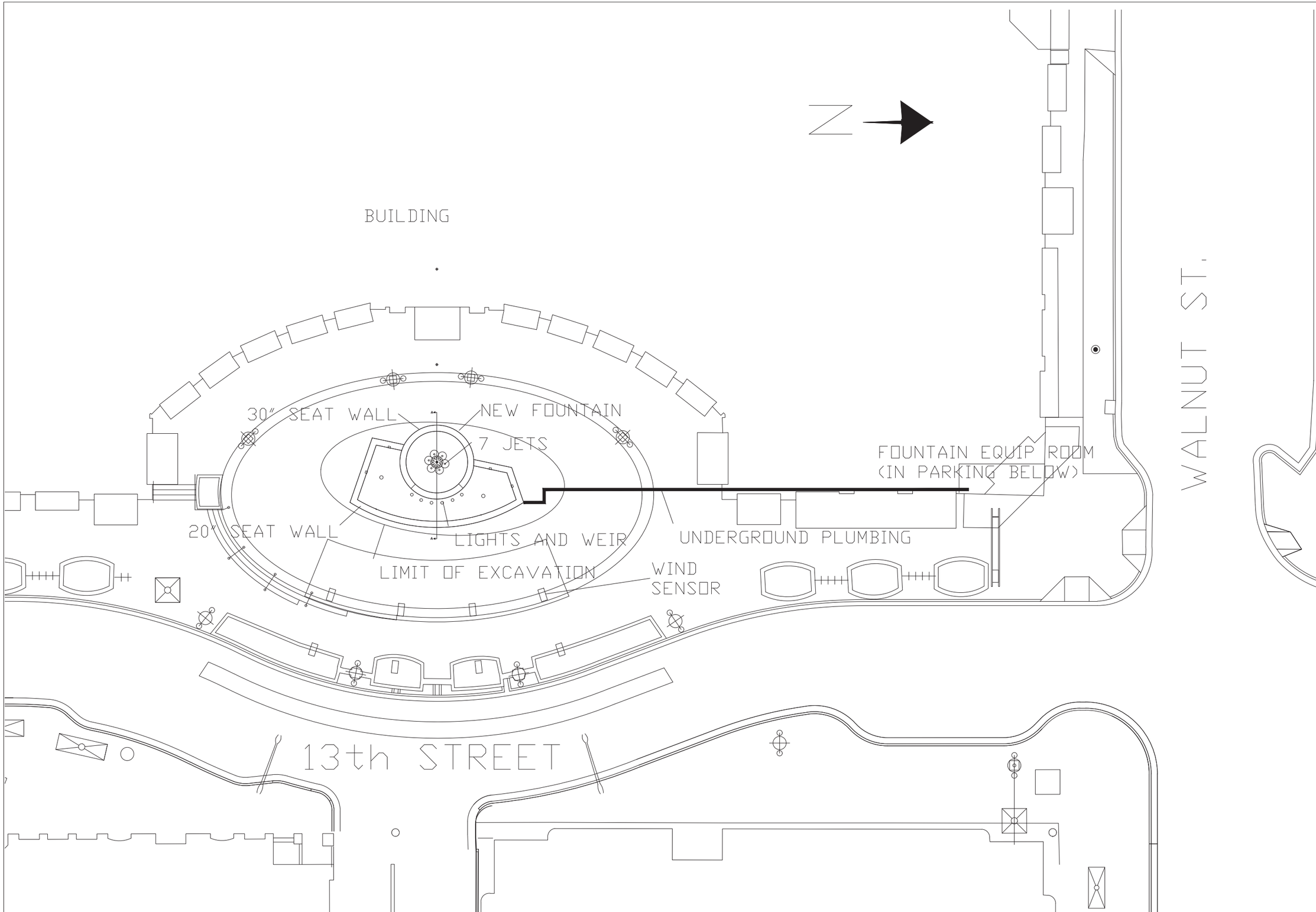

PLAN VIEW SCALE 1"=10'

COLORADO HARDSCAPES
8085 E Harvard Ave
Denver CO 80231
303-750-8200

One Boulder Plaza
OBP 2014-2015 Revitalization
1800 Broadway & 1801 13th St
Boulder, Colorado 80302

MINOR MODIFICATIONS

PROJECT #
DATE: 1/21/2015
DRAWN BY:
CHECKED BY:
REVISIONS:

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BDAB COMMENTS Name: _____

MEETING DATE: **Feb. 11, 2015**

ADDRESS: **One Boulder Plaza - 1800 Broadway /1801 13th St.**

DESCRIPTION: **Project consists of minor modifications to previously approved Site Review. There are 6 primary exterior areas of work included in the One Boulder Plaza 2014-2015 Revitalization.**

APPLICANT: Erik Hartronft and Tom Thorp

Relevant Guidelines:

2.11 Consider The Quality of Open Space Incorporated in New And Renovated Buildings

A. Create comfortable, safe, accessible, and appropriately located open spaces to provide pedestrian interest and convenience.
Orient open spaces to the sun and views. Create a sense of enclosure while maintaining safety, so that open spaces feel like outdoor rooms. Provide seating that is useable year-round. Plazas, courtyards, pocket parks, and terraces should be designed to be easily accessible and comfortable for a substantial part of the year. See Section 6.7.

B. Connect open spaces to other activity areas where people gather to sit, eat, or watch other people.
Locate sidewalk restaurants or outdoor dining areas on or adjacent to open spaces and pedestrian routes such as sidewalks and green areas. Connect shops or office entrances directly to places where people gather or walk. Where appropriate and allowable, the use of well designed and shielded rooftop decks for restaurants and access to views is encouraged.

Attractive open spaces encourage people to gather downtown

6.6 Create Comfortable and Attractive Sitting Areas, Plazas, and Small Open Spaces

Seating areas, plazas, and small open spaces should be located throughout the downtown. They should be easily accessible and comfortable for as much of the year as possible. The use of ground level plant materials and trees to provide shade and pedestrian scale is strongly encouraged. All elements including walls, trees, paving, seating, pedestrian scale lighting, and water features should be designed as an integral part of the overall site design concept.

A. Orient seating to take advantage of views, sunshine in the winter, and shade in the summer.

Arrange benches and other street furniture in a coherent design that, in effect, creates small outdoor rooms. For example, at bus stops and sidewalk seating areas arrange benches, art work, landscaping, and other elements into pleasant and comfortable pedestrian environments.

B. Locate sitting areas, plazas, and small open spaces where they will get the most use.

Locate areas where downtown shoppers and workers congregate — adjacent to a building lobby, heavily traveled sidewalks, or an outdoor restaurant. When located on private property, but serving as public amenities, plazas and courtyards should be directly connected to and accessible from the public sidewalk. If needed, security gates should be either an integral part of the design or completely hidden from view when not in use.

6.10 Create Gateway Elements at Important Downtown Entrance Ways

Gateway elements can create the appearance of symbolic entrance ways. Gateway treatments are of particular importance at key intersections such as the 9th, 10th, and 11th Street, Broadway, and the 13th, and 14th Street intersections along Canyon. They may also provide entrance ways to the downtown located along east and west Pearl Street, and at either end of the downtown section of Broadway. Such gateways may be created by a change in the scale of nearby buildings; a sense of enclosure due to building setbacks, street trees and landscaping; a monument, streetlight, or the acknowledgment of a special vista or topographic feature.

In general, gateways should be visually creative and include an element of sufficient height and mass so as to be visible by motorists, lighted so as to be visible at night, and constructed of high quality materials such as brick, marble, granite, terrazzo, concrete, stainless or painted steel, copper, brass or glass.

Gateways associated with a particular sub-area of Boulder should be of consistent design. For example, gateways to downtown may be unique to that area while gateways at Crossroads should reflect features of that mall.

6.11 Establish Pedestrian Scale Street Lights Along Street Frontages When Feasible

Pedestrian street lighting should illuminate the sidewalk at a level that is consistent with pedestrian activities rather than vehicular activity. Spacing should be standard but may vary to accommodate existing vehicular street lights or street trees.

For pedestrian scale lighting located in the curb zone, fixtures should be the same 12'high as those used in other areas of the downtown. When arranged in a linear pattern they should be spaced approximately 50 to 75 foot apart. On major streets such as Broadway and Canyon, larger 15 foot high fixtures may be used. A custom streetlight fixture that combines both pedestrian and vehicular lighting could be considered on such major streets.

Pedestrian scale lighting may also be accomplished with fixtures that are mounted on buildings or located to accent architectural or landscape features. Such fixtures should be designed to enhance the overall architecture of the building, provide lighting for pedestrians and not damage historic materials.

NOTE: Light poles are provided by Public Services Company and maintained by the city of Boulder. Coordination with Public Service is an absolute requirement.