

HEBER CITY CORPORATION
75 North Main Street
Heber City, UT 84032
Planning Commission Meeting

July 23, 2024

6:00 p.m. – Regular Meeting

-Time and Order of Items are approximate and may be changed as Time Permits-

Public notice is hereby given that the monthly meeting of the Heber City Planning Commission will be in the Heber City Office Building, 75 North Main, South door, in the Council Chambers upstairs.

1. Regular Meeting:

- I. Call to Order
- II. Roll Call
- III. Pledge of Allegiance: By Invitation
- IV. Prayer or Thought: By Invitation
- V. Recuse for Conflict of Interest

2. Consent Agenda: N/A

3. Action Items:

- I. Public Hearing to consider a Zoning Map Amendment for Wasatch County Courts, located at 1361 South Hwy 40 (Planner/Jacob Roberts)
- II. A Public Hearing to consider a Master Development Agreement for OCT Properties, located at 460 West 200 S. (Planner Jamie Baron)
- III. Public Hearing to consider a Master Development Agreement Amendment for College Downs & Finch Creek Developments, located at University Ave. and Hwy 40. (Planner Denna Woodbury)
- IV. School House Academy~Site Plan, located at 700 School House Way (Planner Denna Woodbury)

4. Work Meeting: N/A

5. Administrative Items:

- I. **City Council Communication Item (Jamie Baron)**

6. Adjournment:

Ordinance 2006-05 allows Commission Members to participate in meetings via telecommunications media.

In accordance with the Americans with Disabilities Act, those needing special accommodations during this meeting or who are non-English speaking should contact Meshelle Kijanen at the Heber City Offices at 435.657.7898 at least eight hours prior to the meeting.

Posted on 07.18.2024, in the Heber City Municipal Building located at 75 North Main, the Heber City Website at www.heberut.gov, and on the Utah Public Notice Website at <http://pmn.utah.gov>. Notice provided to the Wasatch Wave.



Planning Commission Staff Report

MEETING DATE: 7/23/2024

SUBJECT: Public Hearing to consider a Zoning Map Amendment for Wasatch County Courts, located at 1361 South Hwy 40 (Planner/Jacob Roberts)

RESPONSIBLE: Jamie Baron

DEPARTMENT: Planning

STRATEGIC RELEVANCE: Community Development

SUMMARY

Wasatch County has applied to rezone the property of the Wasatch County Courthouse located at 1361 S US-40, Heber City, UT 84032. The current zoning is C-2 Commercial. The applicant is requesting to change the zone to the IPF, Institutional and Public Facilities Zone.

Policy Questions:

1. Should the City change the zoning of the Wasatch County Courts?

RECOMMENDATION

Staff recommends the Planning Commission hold a public hearing, take public comment, and forward a positive recommendation of the zone change request to the City Council.

BACKGROUND

Wasatch County is currently going through the process of expanding the county courts located at 1361 US-40, Heber City, UT 84032. As a part of that process, the County has also applied to rezone this property from the C-2 Commercial Zone to the IPF Zone. The County has indicated a desire to rezone their properties within the city to a zone that is more conducive to the use and maintenance of public facilities.

DISCUSSION

C-2 Zoning

The current zoning of C-2 includes building design standards. The current addition has met those standards. However, Wasatch County is concerned about those requirements on future expansions.

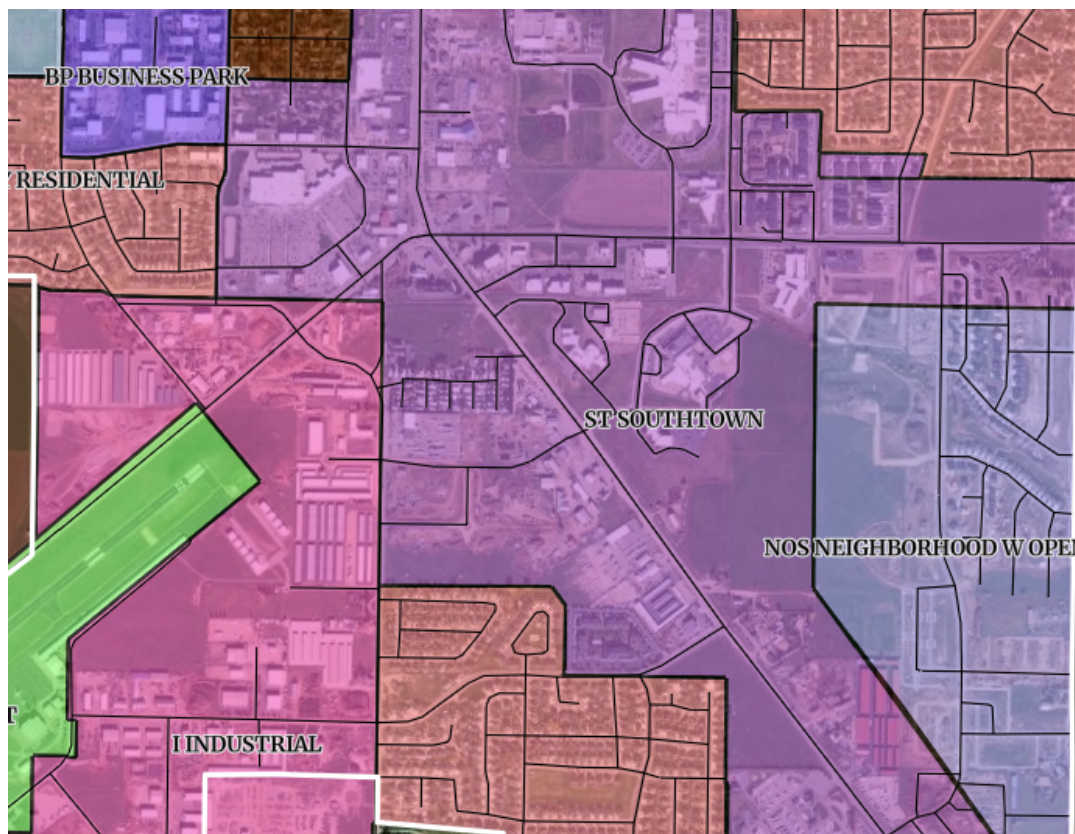
IPF

The Institutional and Public Facilities (IPF) zone was created for government and other institutional buildings. This zone has fewer requirements for building design. The County feels that the IPF zone is better fitted for their use and potential additions, and will reduce the expense of future improvements.

General Plan

The General Plan identifies this property as South Town, with the following characteristics:

District Type	Uses	Density Range / Scale (gross acreage)	Key Characteristics
South Town Center (ST)	Primary: regional commercial/office uses, health services, light manufacturing and tech businesses Secondary: medium to high density residential	14 to 20 units per acre Up to 3 story heights	A mix of businesses catering to the regional scale needs of Wasatch County. Includes opportunities.



Process

Section 18.12.120 Requires that the Planning Commission hold a public hearing and forward a recommendation to the City Council, where the City Council can take action of the request.

Staff Finding:Consistent. This item is scheduled for a public hearing with the Planning Commission, and the Planning commission may make a recommendation.

Zone Changes should accomplish the following:

1. The proposed amendment would further the purpose and intent of this title; **Staff Findings: Consistent.** The IPF Zone is intended for public facilities such as the Courts.
2. The proposed zoning amendment is consistent with the general plan; **Staff Findings: Consistent.** The County Courts is a regional office use providing services to the public.
3. The proposed amendment meets the needs and policy of the city as expressed by the legislative body in stated goals and objectives found in the general plan. **Staff Findings: Consistent.** The General Plan outlines the goals of Jobs and Economic Growth in the South Town District. The Court facility provides jobs and services for residents, and the future expansions will allow for additional jobs generation. The proposed zoning will help to allow for job growth by reducing the cost of development and burden on public funds.

FISCAL IMPACT

N/A

CONCLUSION

Wasatch County is seeking a zone change from C-2 Commercial to Institutional and Public Facilities (IPF) to aid in the future growth of the Courts. The IPF zone was created for public buildings. Staff is recommending the Planning Commission hold a public hearing and forward a positive recommendation with the following findings and conditions:

Findings

1. The Planning Commission held a public hearing on July 23, 2024.
2. The Planning Commission forwarded a positive recommendation on July 23, 2024.
3. The Proposed Amendment is consistent with Section 18.12.120.
4. The Proposed Amendment is consistent with the General Plan.

Conditions

1. Any conditions as outlined by the Planning Commission: _____.

ALTERNATIVES

Staff Recommended Option - Positive Recommendation

I move to forward a positive recommendation of the Wasatch County Court Zone Change as presented, with the findings and conditions as presented in the conclusion of the staff report.

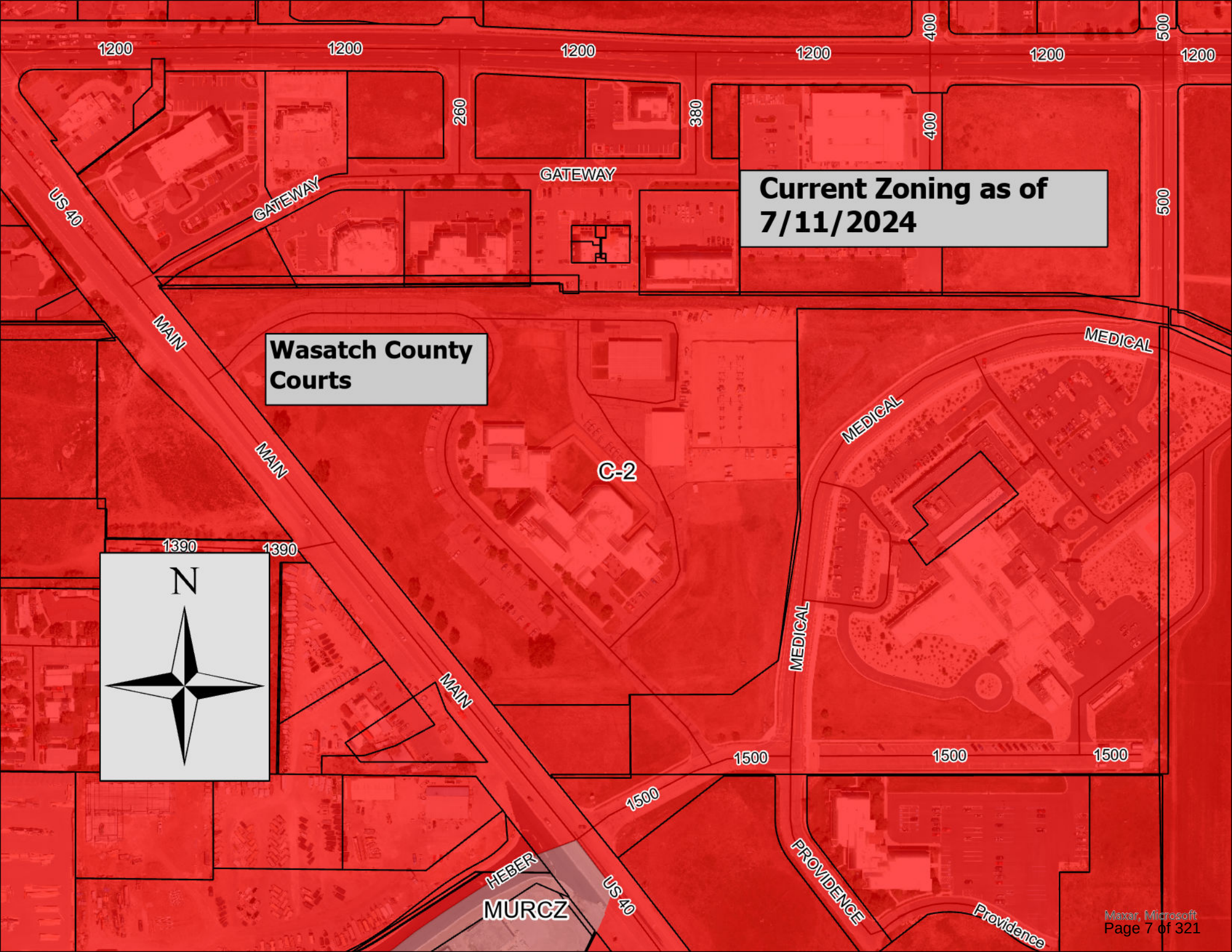
POTENTIAL MOTIONS

ACCOUNTABILITY

Department: Planning
Staff member: Jacob Roberts, Planner

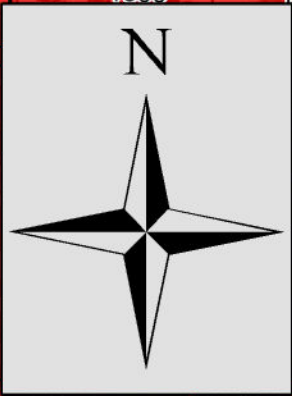
EXHIBITS

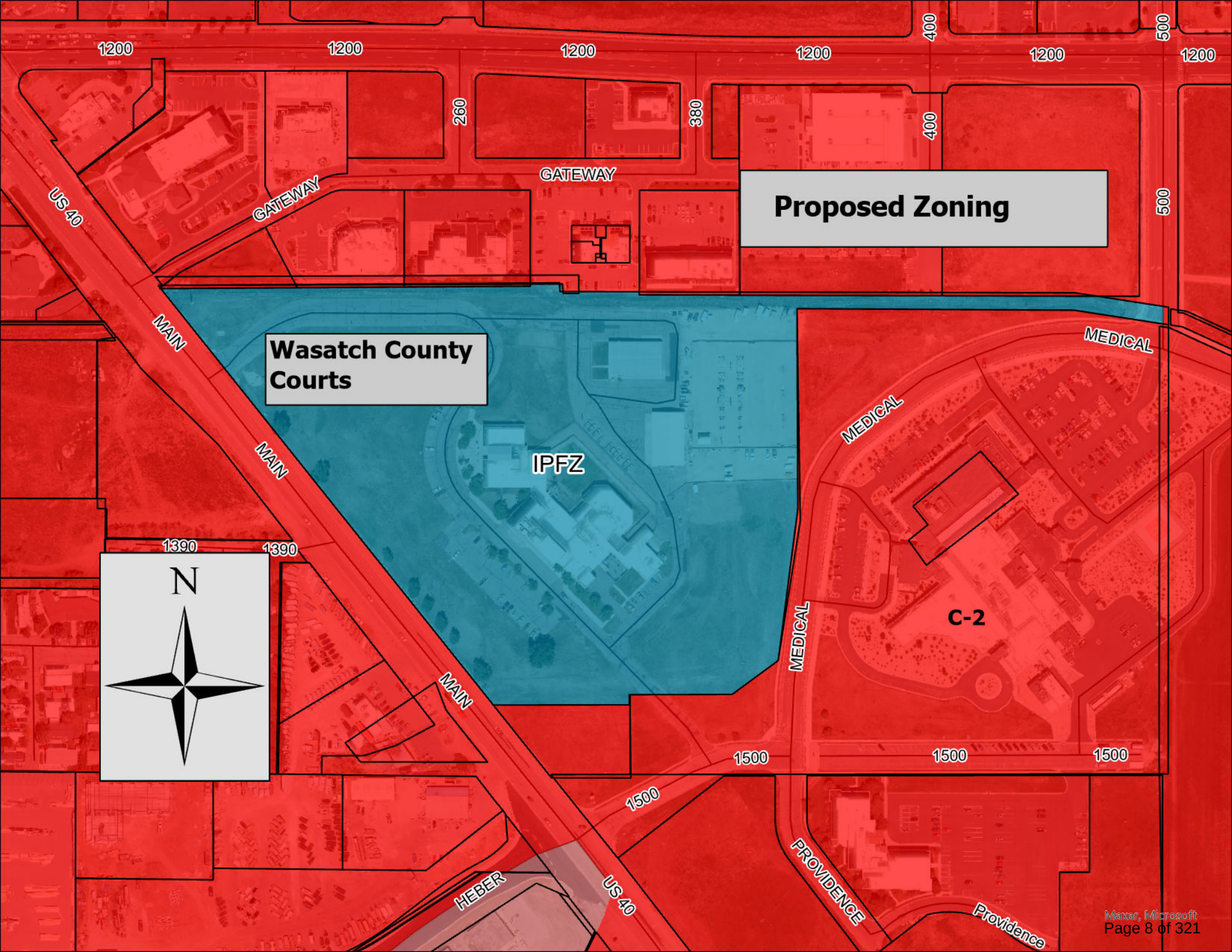
1. Wasatch County Courts Current Zoning 7.11.2024
2. Wasatch County Courts Proposed Zoning 7.11.2024



**Current Zoning as of
7/11/2024**

**Wasatch County
Courts**





Proposed Zoning

**Wasatch County
Courts**

IPFZ

C-2



Planning Commission Staff Report

MEETING DATE: 7/23/2024
SUBJECT: A Public Hearing to consider a Master Development Agreement for OCT Properties, located at 460 West 200 S. (Planner Jamie Baron)
RESPONSIBLE: Jamie Baron
DEPARTMENT: Planning
STRATEGIC RELEVANCE: Community and Economic Development

SUMMARY

OCT Properties is seeking a development agreement to redevelop the property at 460 W 200 S, changing the use from a single family home to 8 town homes.

The Policy Questions include:

1. Should the City Amend the General Plan to permit the proposed development?
2. Should the City enter into a development agreement to permit the proposed development?

RECOMMENDATION

Staff is recommending the Planning Commission hold a public hearing, take public comment, and choose an option from the potential motions section of the staff report.

BACKGROUND

The property at 460 W 200 S has recently been purchased by OCT Properties. The house was in poor shape and has been demolished. The property is vacant. OCT Properties went before the Council at a work meeting on January 16, 2024 to determine if the Council was open to the Development Agreement Process. The majority of the Council was open to the request going through the process.

DISCUSSION

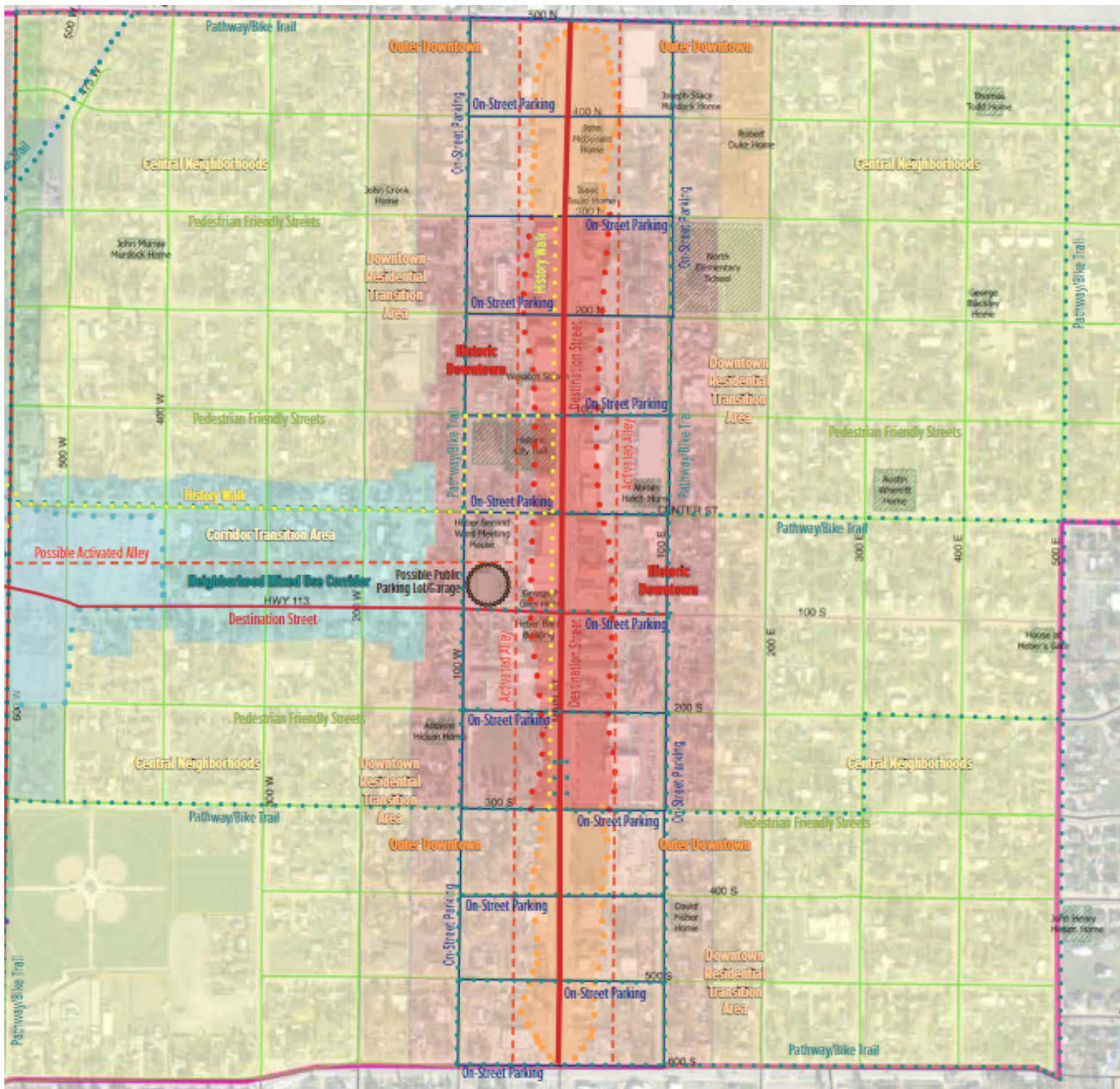
Envision Central Heber

The Envision Central Heber identifies the property as Central Neighborhoods, as outlined below.

Central Neighborhoods

- Residential: single family
- Open Space: neighborhood park
- Accessory Uses: home-based business, attached accessory dwelling units, detached accessory dwelling units with height equal to or lower than main home height, flag lots

District Type	Uses	Density Range / Scale (gross acreage)	Key Characteristics
Central Neighborhoods (CN)	Primary: SFDs on smaller lots, duplexes, triplexes, flexible infill Secondary: detached and attached ADUs, flag lots, home based businesses	3-8 units per acre 1-3 story height	A neighborhood emphasizing current residential pattern. Strong street connections to the downtown and the tourist center; bicycle and pedestrian friendly. Historic structures and homes enhanced.



Staff Finding: Can Comply. The proposal is inconsistent with the new Envision Central Heber Plan, as the use is not listed in the area and the density exceeds the General Plan limits of 3-8 units per acre. The Planning Commission and Council may amend the general plan if they believe the project is in the best interest of the public and better serves the general plan.

75 N Main Street
Heber City, UT 84032

Phone: 435-657-0757
Fax: 435-657-2543

heberut.gov

Current Zoning

The Current zone on the property is R-2 Residential, which permits single family detached dwellings, with a 8,000 square foot lot minimum.

Proposed

The proposed development would include 8 two-story town homes on 0.45 acres. This proposed density is 17.78 units per acre.

Affordable Housing

The City is trying to aid in the creation of affordable housing. This project will create additional units in the down town area. Council has been negotiating deed restricted affordable unit at 60% AMI. Staff is recommending at least one unit be deed restricted to 60% AMI.

FISCAL IMPACT

N/A

CONCLUSION

OCT Properties would like to enter into a development agreement on the property at 460 W 200 S, to develop 8 town homes on 0.45 acres, with a density of 17.78 units per acre. The proposal is inconsistent with the newly adopted Envision Central Heber plan, due to uses and density. The Planning Commission and Council may amend the general plan. Staff is recommending the Planning Commission hold a public hearing, take public comment, and choose an option from the potential motions outlined in the staff report.

ALTERNATIVES

Option 1 - Positive Recommendation

I move to forward a **positive recommendation** of the OCT Development Agreement as presented, with the following findings and conditions:

Findings:

1. The Planning Commission held a public hearing on July 23, 2024.
2. The Planning Commission forwarded a positive recommendation on July 23, 2024.
3. The proposed development is consistent with the General Plan.

Conditions:

1. One deed restricted affordable unit shall be provided at 60% AMI or less.
2. All frontage improvements shall be consistent with City Standards.

Option 2 - Continue

I move to **continue** this item with direction to the applicant and/or Staff on information and / or changes needed to render a decision, as follows:

Option 3 - Negative Recommendation

I move to forward a **negative recommendation** of the OCT Properties Development Agreement with the following findings:

Findings

1. The Planning Commission held a public hearing on July 23, 2024.
2. The Planning Commission forwarded a negative recommendation on July 23, 2024.
3. The proposed development is inconsistent with the General Plan.

POTENTIAL MOTIONS

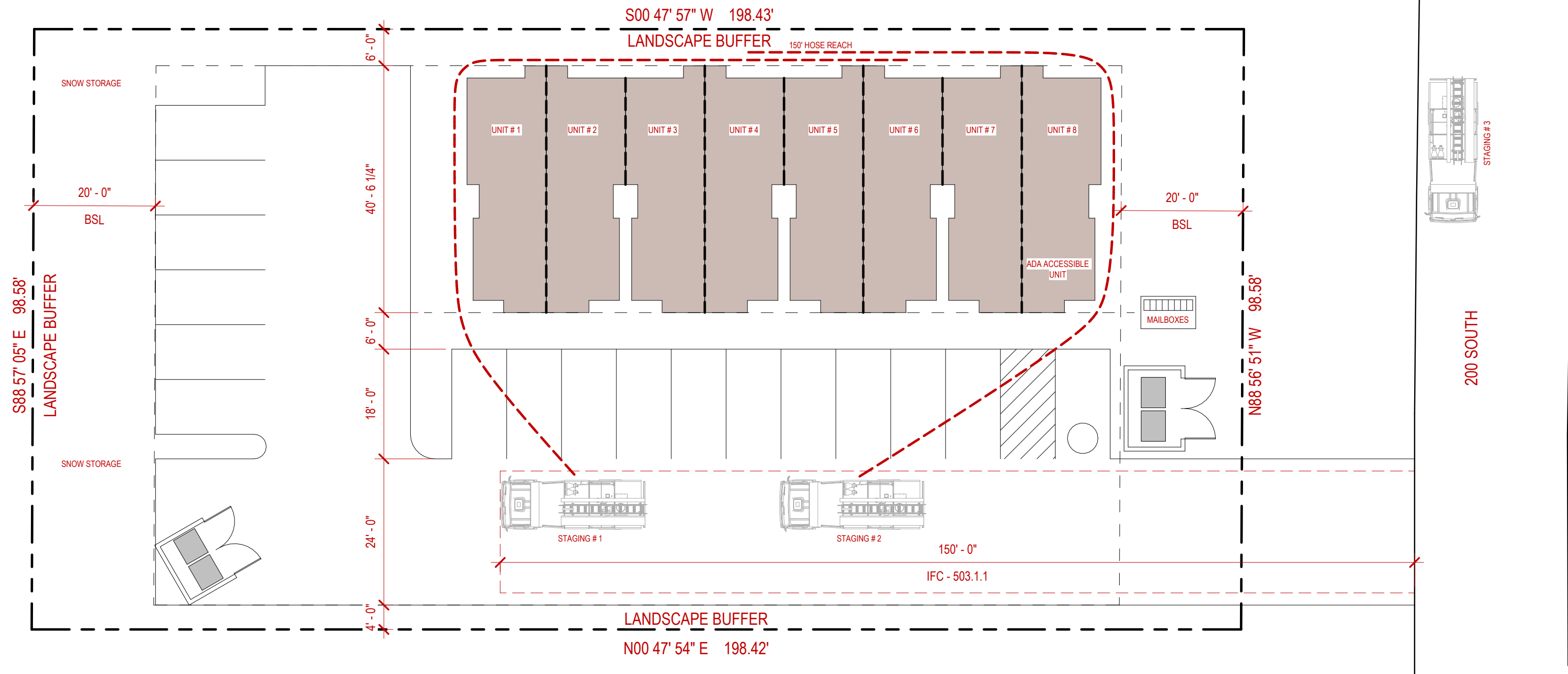
ACCOUNTABILITY

Department: Planning
Staff member: Jamie Baron, Planning Manager

EXHIBITS

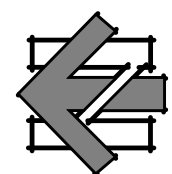
1. Area Map
2. OCT Properties 460-HC8 Townhomes Site Plan
3. OCT Properties 460 HC8 Townhomes Floor Plans
4. 7.23.24 PCPH PP - 460 W 200 S





- R-2 OCCUPANCY
- TWO (2) PARKING SPACES PER UNIT
- ONE (1) ACCESSIBLE (ADA) UNIT
- ONE (1) ACCESSIBLE PARKING SPACE.
- (8) TOWN HOMES
- TWO-STORY BUILDING - 30' MAX HEIGHT
- FIRE SPRINKLERS REQUIRED
- ALL PORTIONS OF FIRST FLOOR PERIMETER WITHIN 150' HOSE REACH FROM 150' FIRE ACCESS ROAD PER IFC 503.1.1

① SITE OPT. 4b
1/16" = 1'-0"



HEBER CITY 8

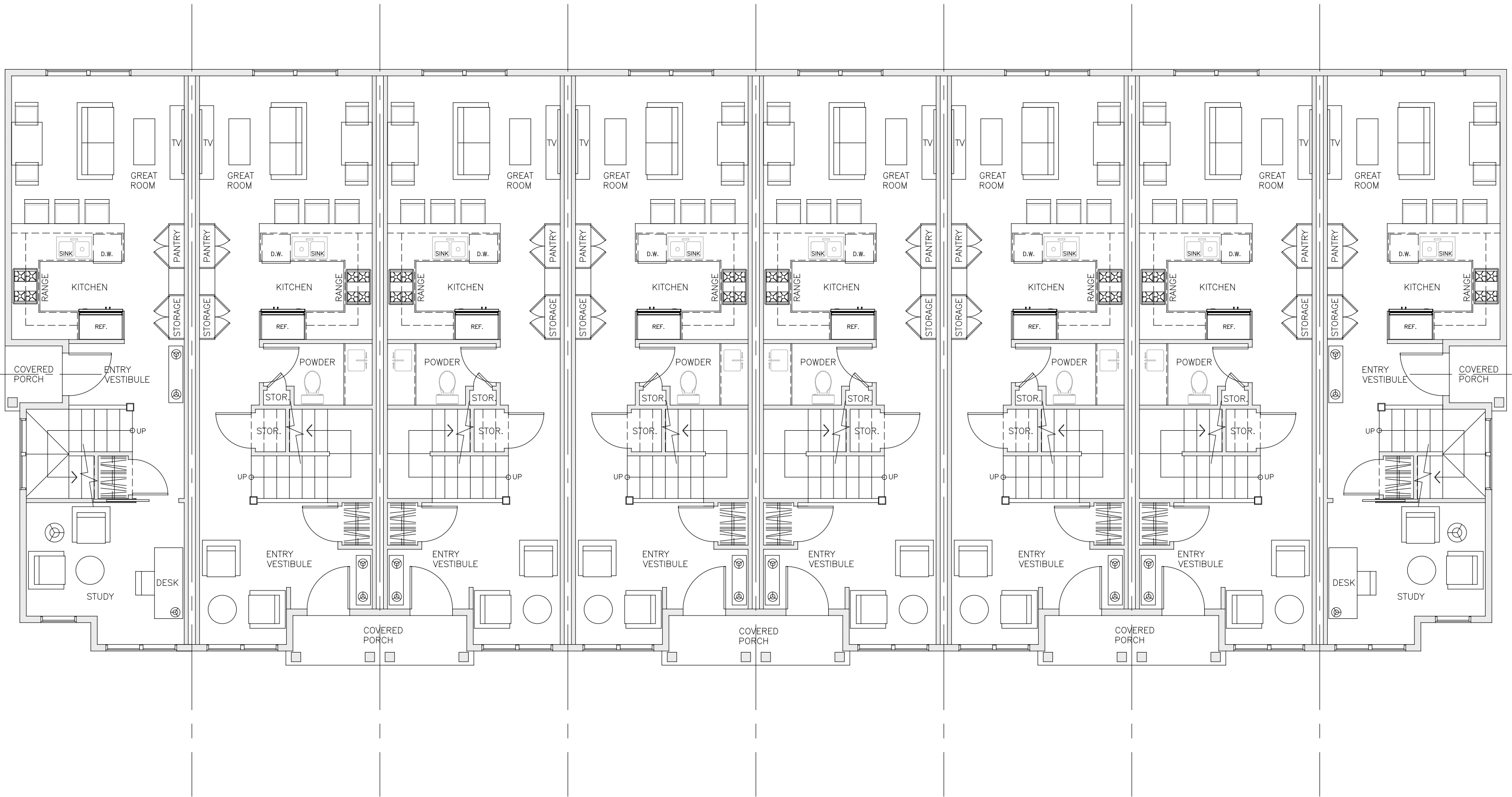
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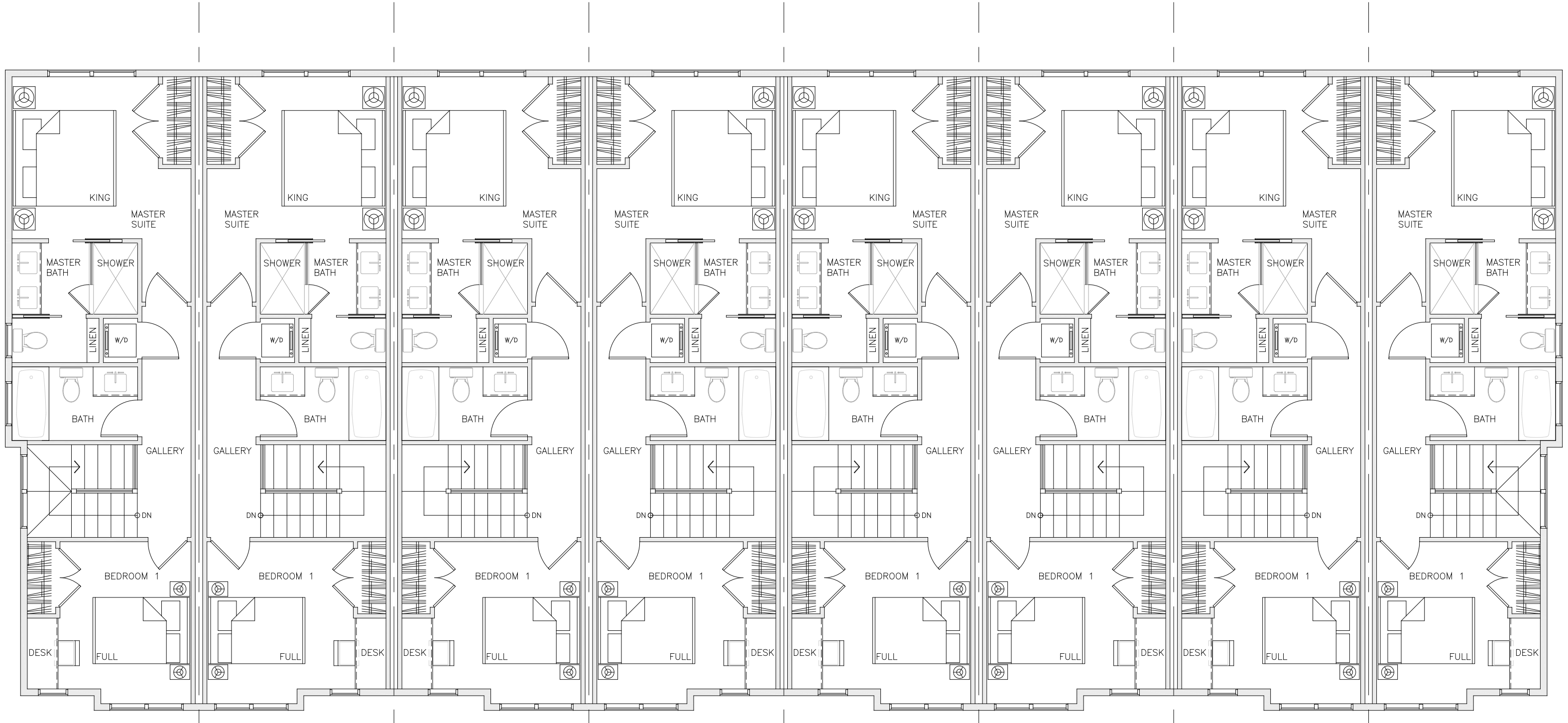
CLIENT: Owner
JOB NO: Project Number
ISSUE DATE: Issue Date
STATUS: Project Status

REVISIONS		
#	DESCRIPTION	DATE

SITE OPT. 4 - TWO STORY TOWN HOMES











460 W 200 S

Possible Development Agreement

Date: July 23, 2024

Policy Questions

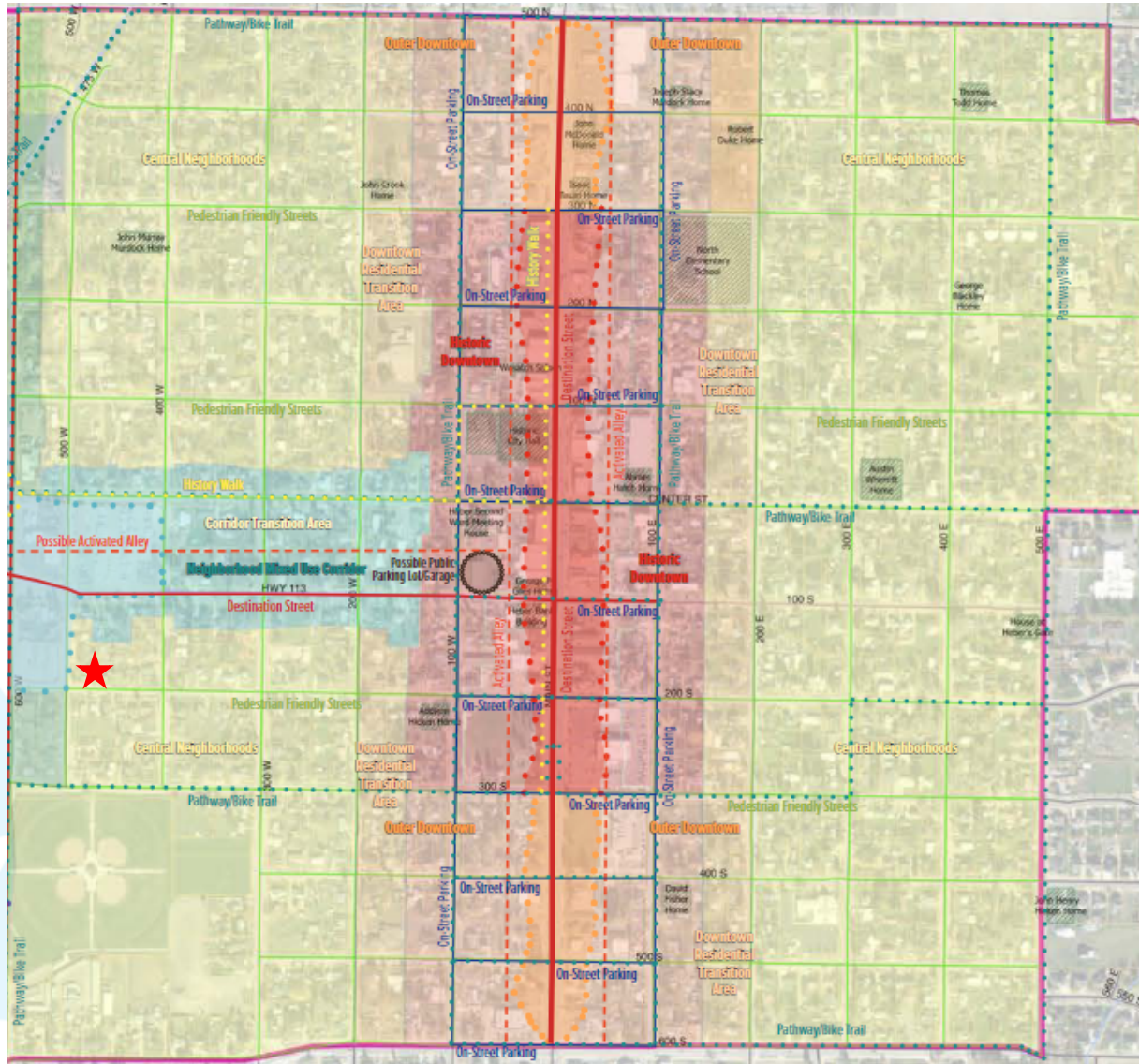
1. Should the City Amend the General Plan to permit the proposed development?
2. Should the City enter into a development agreement to permit the proposed development?

Background

- House was in poor condition and has been demolished by the new property owner.
- Current Zone is R-2



Envision Central Heber



Envision Central Heber

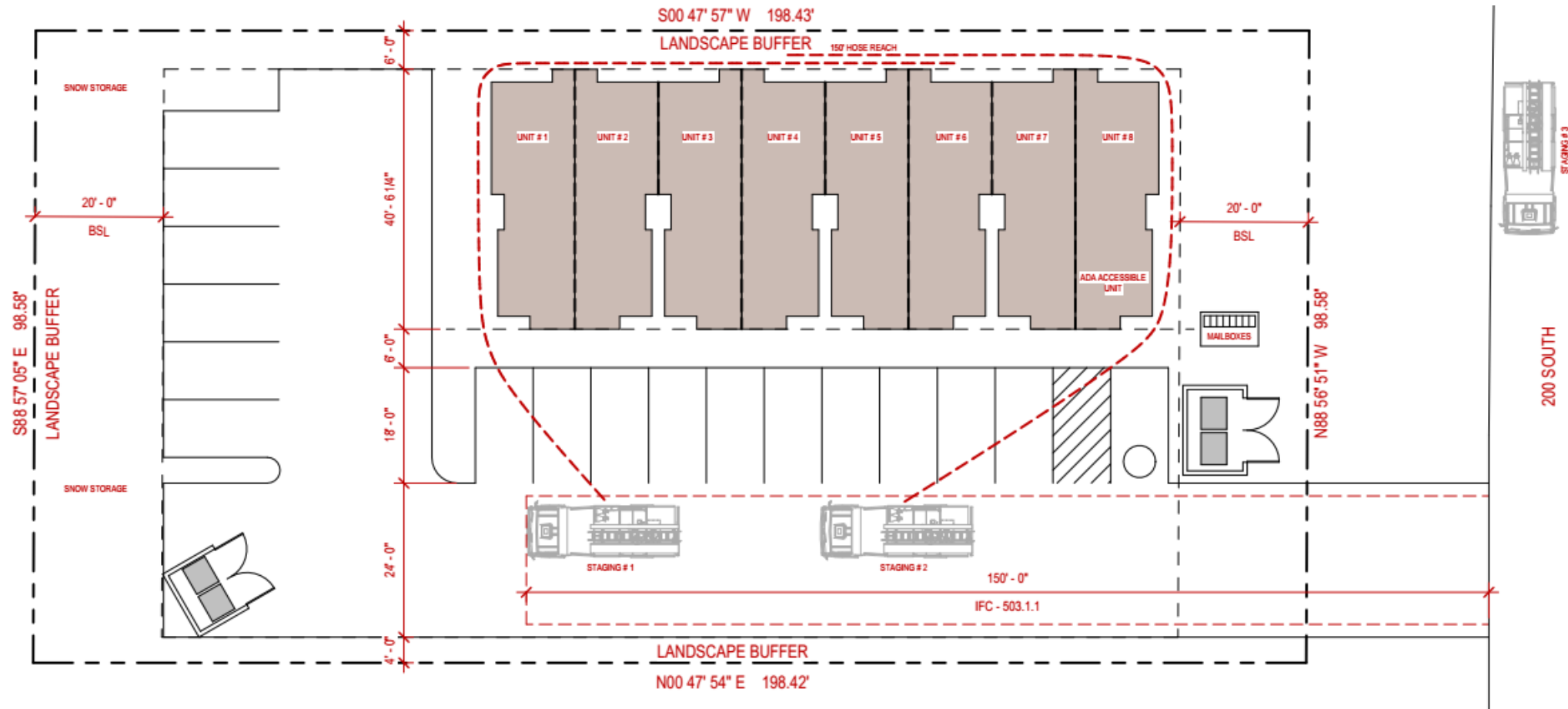
Central Neighborhoods

- Residential: **single family**
- Open Space: neighborhood park
- Accessory Uses: home-based business, attached accessory dwelling units, detached accessory dwelling units with height equal to or lower than main home height, flag lots

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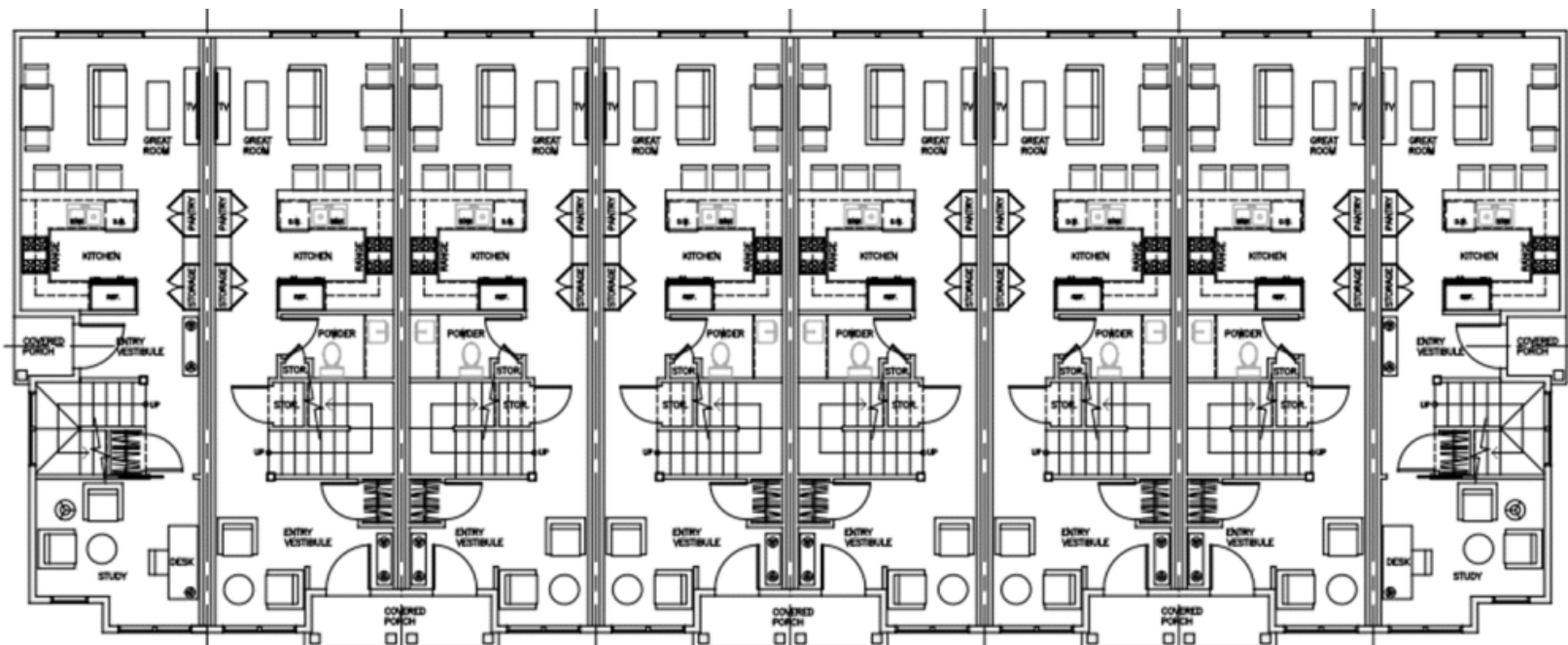
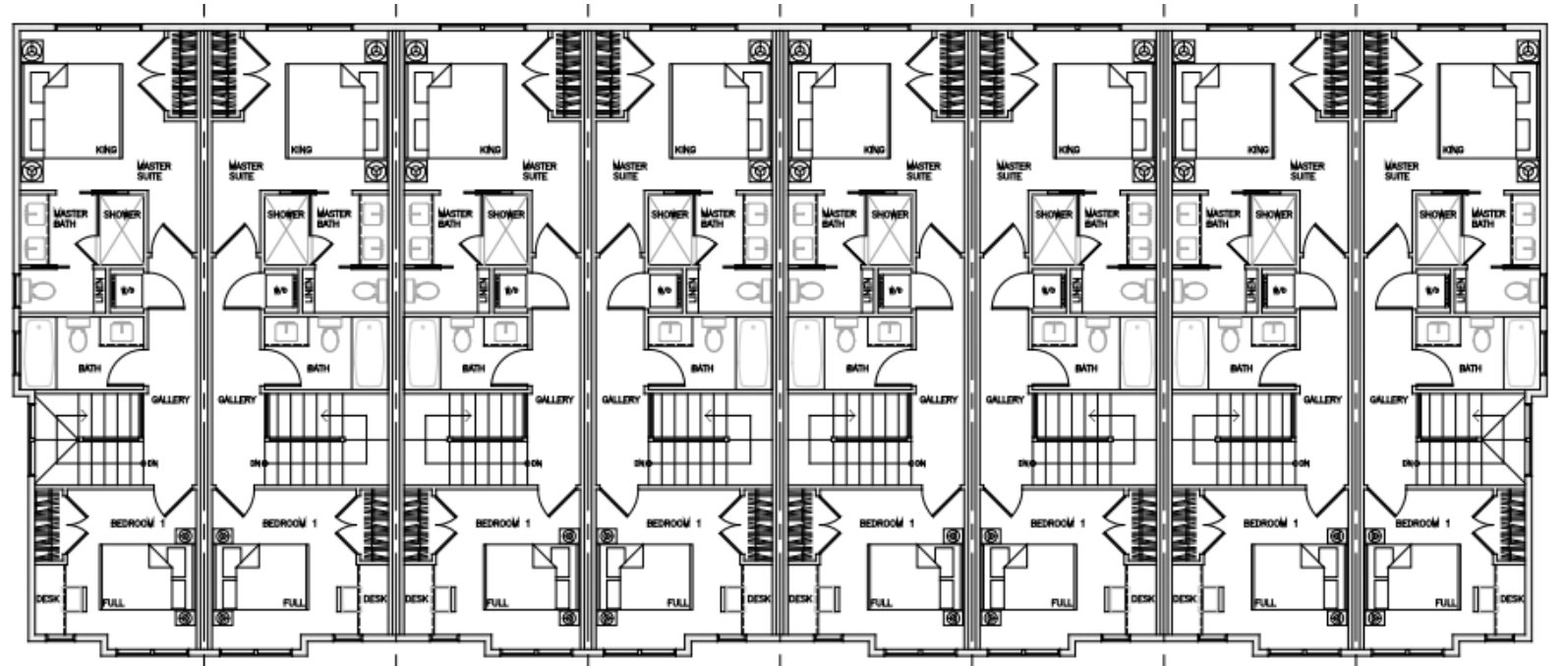
Proposal

- 8 Town Home units on 0.45 acres, 17.78 u/a density.



Proposal





Conclusion

- Not consistent with Envision Central Heber.
- General Plan can be amended

Policy Questions

1. Should the City Amend the General Plan to permit the proposed development?
2. Should the City enter into a development agreement to permit the proposed development?

Questions and Comments...



Planning Commission Staff Report

MEETING DATE: 7/23/2024

SUBJECT: Public Hearing to consider a Master Development Agreement Amendment for College Downs & Finch Creek Developments, located at University Ave. and Hwy 40. (Planner Denna Woodbury)

RESPONSIBLE: Denna Woodbury

DEPARTMENT: Planning

STRATEGIC RELEVANCE: Community Development

SUMMARY

The College Downs & Finch Creek Developments have requested a Master Development Agreement amendment in order to facilitate a realignment of University Avenue and North Village Overlay Zone (NVOZ) provisions due to topography impacts on the project design.

RECOMMENDATION

Staff recommends that a public hearing be held and that the Planning Commission provides a favorable recommendation to City Council.

BACKGROUND

The College Downs & Finch Creek Developments have requested a Master Development Agreement amendment in order to facilitate a realignment of University Avenue and North Village Overlay Zone (NVOZ) provisions due to topography impacts on the project design.

The proposed plan moves University Avenue to the north where it connects to Highway 40. The move shifts some of the commercial parcels along Highway 40. The plan also changes the layout of the residential properties. This proposal does not increase the ERUs but rearranges the units from the original concepts approved with the MDA.

DISCUSSION

The proposed project moves University Avenue to the north where it connects to Highway 40. This change allows for the streets to have a gentler slope throughout the project, connecting to the development to the east.

The project consists of commercial and residential parcels. The residential portion of the project includes townhomes buildings (Finch Creek) and stacked residential buildings (College Downs).

The proposed realignment affects provisions to the NVOZ requirements. The NVOZ presents challenges with hillside development. The NVOZ creates short streets and blocks, which increases connectivity and walkability. NVOZ also encourages pushing building toward the streets. However, calling topography can make it more difficult to meet the building standards without carving up the hillside to provide the grades needed to meet street and building standards. The applicant's amendment requests are intended to comply with the intent of the NVOZ standards while trying to minimize hillside disturbance and meet the City's street grade requirements.

The changes requested from NVOZ relate to the Streets (4.0) and Buildings (3.0) sections of the code.

4.0 Streets

The project cannot meet the Street Connectivity Requirements, specifically the maximum block length of 500 feet and the block perimeter of 2000 feet. The project will provide pedestrian connectivity throughout the project. A longer block length and larger block perimeter are needed to meet the street grades.

3.0 Buildings

3.4 Stacked Residential Building

Due to the topography, the project cannot meet the Build To Zones and Front Property Line Coverage of the code. A portion of the development cannot meet the parking location requirement. The streets sit higher than the buildings. A majority of the project provides the parking behind or to the side of the buildings. However, along the east portion of the project there is parking and garages between the building and the street. The garages shown along the streets will help retain part of the hillside and minimize the use of retaining walls. There is also a portion of the project where a detention basin is located between the parking area and Highway 40.

3.6 Townhouse Building

Due to the topography, the project cannot meet the parking requirement to be located in the rear yard (alley loaded). The proposed project has garages located in each unit that are accessed off of the internal street network.

The project is also incorporating buildings of different sizes due to the number of units in each building. The code requires a maximum of 6 units per building. The proposed concept plan shows 22 buildings. Eight of the buildings proposed have 7-units and two of the buildings have 8-units. Due to the configuration, some of the buildings create a green courtyard feeling and do not meet the requirement of three buildings of 5-units with a minimum of 50 feet to building to create the courtyard.

The buildings shown on the concept plan will meet the Build to Zone and Front Property Line Coverage to the internal street network but not to University Avenue.

FISCAL IMPACT

None.

CONCLUSION

College Downs & Finch Creek Developments have challenging topography, making it difficult to meet some of the requirements found in NVOZ. The changes that are being proposed to the MDA include the realignment of University Avenue and development layout that meets the intent of NVOZ while addressing the unique topographic challenges.

Staff recommends that a public hearing be held and that the Planning Commission provides a favorable recommendation to City Council.

Findings:

1. The application is consistent with the Municipal Zoning Code.
2. The application is consistent with the General Plan.
3. The proposed Site Plan shall comply with City ordinances, Federal, State Law, as applicable to the site where the conditional use is located.

Conditions:

1. All requirements of the City Engineer shall be met.
2. All other Code Requirements shall be met.
3. Any other conditions or changes as articulated by the Planning Commission.

ALTERNATIVES

Staff Recommended Option - Approval

I move to forward a **positive recommendation for a Master Development Agreement Amendment for College Downs & Finch Creek** as presented, with the findings and conditions as presented in the conclusion above.

Alternative 2 - Continuance

I move to **continue a Master Development Agreement Amendment for College Downs & Finch Creek** to another meeting on , with direction to the applicant and/or Staff on information and / or changes needed to render a decision, as follows:

Alternative 3 - DENIAL

I move to **deny a Master Development Agreement Amendment for College Downs & Finch Creek** with the following findings.

POTENTIAL MOTIONS

ACCOUNTABILITY

Department: Planning

Staff member: Denna Woodbury, Planning Consultant

EXHIBITS

1. Heber City Subdivisions Map- Project location
2. Site Plan (3)
3. Site Plan Comparison
4. College Downs MDA from CC mtg 11-7-23
5. Finch Creek signed MDA 12-05-22

Heber City Subdivisions

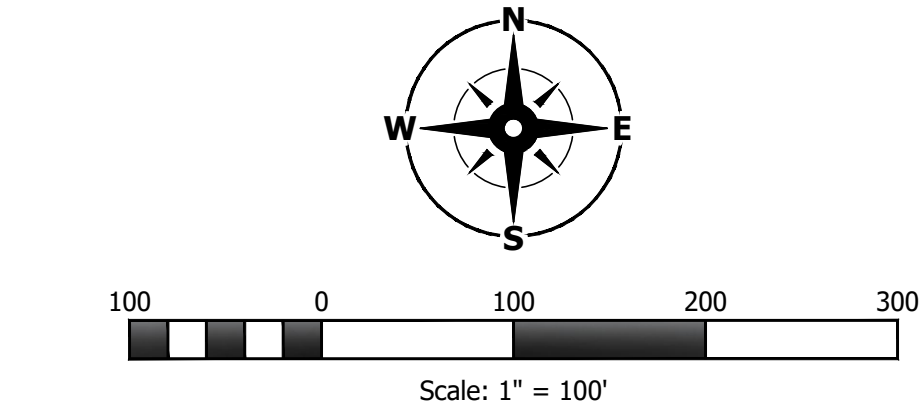
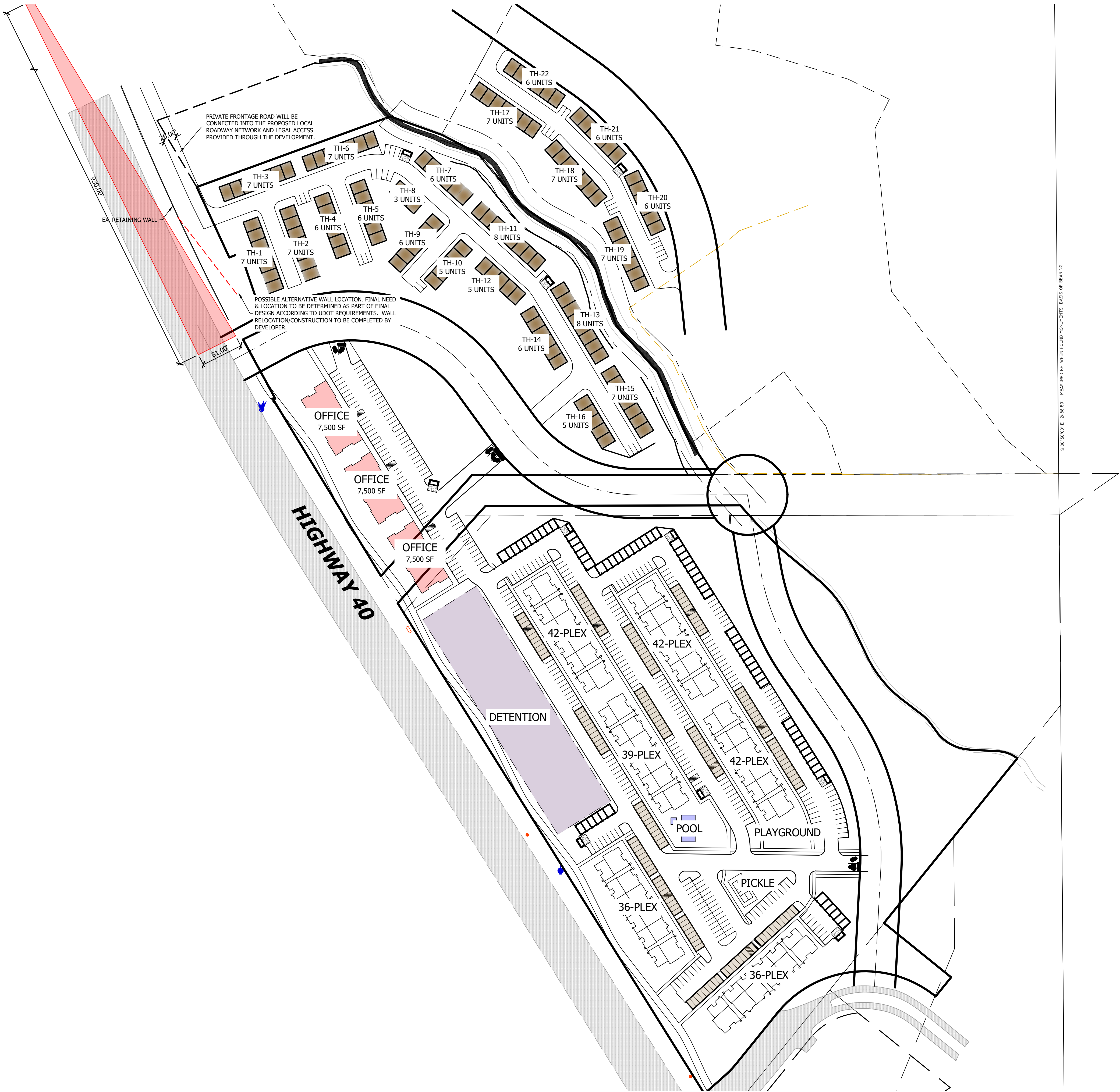
with ArcGIS Web AppBuilder



THOMAS C:\Users\Thomas.VD.000\Hunt Day\Dropbox\Projects\102-26\College Downs\102-26-CAD\01-AutoCAD\102-26-C-20240327\04 4/15/2024 3:10 PM



Know what's below.
Call before you dig.



- TEST
- TEST

General Notes

- TEST
- TEST

Key Notes

Pavement Quantities

ASPHALT: 14,104 SF
CONCRETE: 3,835 SF

Legend

- ADA ROUTE - NOT TO EXCEED A RUNNING SLOPE GREATER THAN 4.5% OR CROSS SLOPE GREATER THAN 1.5%
- ADA AREA - NOT TO EXCEED SLOPE GREATER THAN 1.5% IN ANY DIRECTION
- SPILL CURB, SEE APPLICABLE CURBING DETAIL

Site Data

LOCATION: HEBER, WASATCH COUNTY, UTAH
PROPERTY SIZE: 28.00 ACRES
RESIDENTIAL:
APARTMENT UNITS: 132 - 1 BEDROOM UNITS - 742 SF - 43.56 ERU'S
72 - 2 BEDROOM UNITS - 986 SF - 36.00 ERU'S
33 - 3 BEDROOM UNITS - 1,497 SF - 24.75 ERU'S
TOTAL UNITS: 237 UNITS - 104.31 ERU'S
PARKING REQUIRED: 396 STALLS
PARKING PROVIDED: 227 OPEN STALLS
165 COVERED PARKING
69 GARAGES
461 TOTAL STALLS
1.95 STALLS/UNIT
AMENITIES:
- CLUBHOUSE
- WALKING PATH
- POOL
- HOT TUB
- TOT LOT
- DOG PARK
- COMMON AREA
TOWNHOME UNITS: 138 - 2 BEDROOM UNITS - 1,200 SF - 69.00 ERU'S
PARKING REQUIRED: 276 STALLS
PARKING PROVIDED: 276 GARAGE STALLS
32 GUEST STALLS
308 TOTAL STALLS
2.23 STALLS/UNIT
COMMERCIAL:
15,000 SF OFFICE - 0.86 @ 2,000 SF = 6.45 ERU'S

Notice To Contractors

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY THE SURVEYOR OR CITY PRODUCED DOCUMENTS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE. IF FIELD CONDITIONS VARY FROM SHOWN AT MOBILIZATION, CONTRACTOR TO PROVIDE NOTICE TO THE OWNER AND ENGINEER OF RECORD IMMEDIATELY. THE CONTRACTOR IS REQUIRED TO CONTACT THE UTILITY COMPANIES AND TAKE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS.

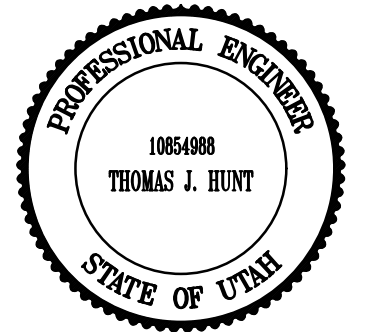


HUNT · DAY
3445 Antelope Drive, St 200
Syracuse, UT 84075
PH: 801.664.4724
EM: Thomas@HuntDay.co

PROJECT TITLE
COLLEGE DOWNS
HIGHWAY 40 & COLLEGE WAY
HEBER CITY WASATCH COUNTY, UT
LOCATED IN THE NORTH HALF OF SECTION 25,
TOWNSHIP 9 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN

REV.	DATE	DESCRIPTION	BY
0	04-31-24	INITIAL SUBMITTAL TO CITY	TH

SEAL



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" = 100'
IF NOT ONE INCH ON THIS SHEET, ADJUST
SCALES ACCORDINGLY

PROJECT INFO.

Engineer: T. Hunt
Drawn: T. Pridemore
Date: 03 / 20 / 2023
Proj. No. 102 - 08

SHEET TITLE

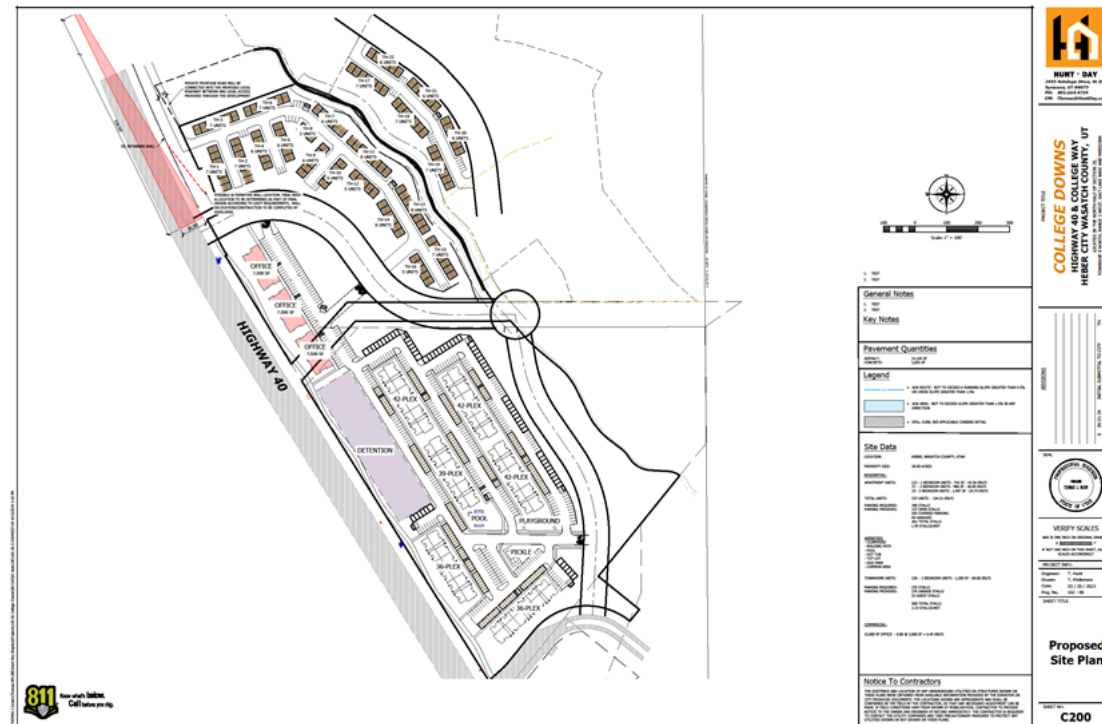
**Proposed
Site Plan**

SHEET NO.

C200

Site Plan Comparison

- Proposed Site Plan 7-23-24

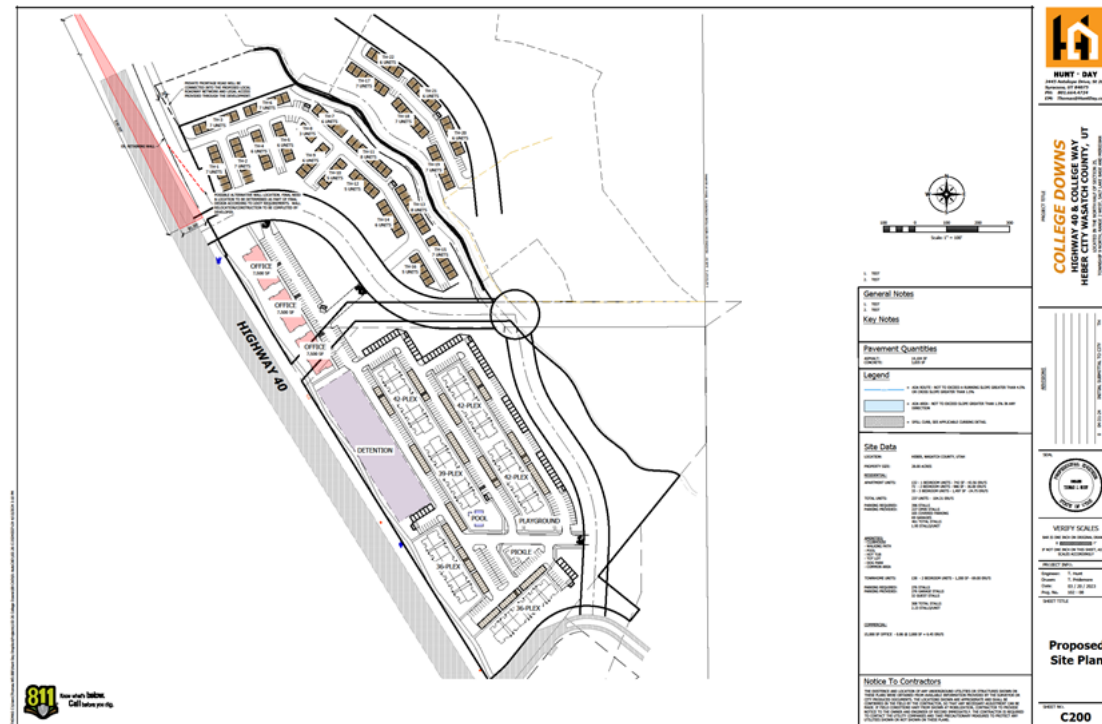


- College Downs Site Plan adopted 11-07-23



Site Plan Comparison

- Proposed Site Plan 7-23-24



- Finch Creek Site Plan adopted 12-05-22



WHEN RECORDED, RETURN TO:

Heber City
Attention: City Recorder
75 North Main Street
Heber City, Utah 84032

Tax Parcel Nos.: 00-0020-8333, 00-0020-8335 and 00-0020-8334

(Space above for Recorder's use only.)

**DEVELOPMENT AGREEMENT
FOR THE
COLLEGE DOWNS MIXED USE DEVELOPMENT**

THIS DEVELOPMENT AGREEMENT FOR THE COLLEGE DOWNS MIXED USE DEVELOPMENT (this "**Agreement**") is made and entered into as of the _____ day of _____, 2023, by and between HEBER CITY, a political subdivision of the State of Utah (the "**City**"), and WDG COLLEGE DOWNS LLC, a Utah limited liability company ("**WDG**"). Each of WDG and the City are hereinafter referred to individually as a "**Party**" and collectively as the "**Parties**."

RECITALS

A. WDG is the owner of approximately 17 acres (including Chaparral Street) of undeveloped real property located between University Ave and College Way on the east side of Hwy 40 (Parcel Nos. 00-0020-8333, 00-0020-8335 and 00-0020-8334) in Wasatch County, State of Utah (the "**Property**"). A legal description of the Property is attached hereto as **Exhibit A**.

B. On _____, 2023, the City approved and adopted a Conceptual Site Plan for the Project (the "**Site Plan**"), subject to the Parties entering into this Agreement and the agreeing to annexation of the Property into the City.

C. The Site Plan for the Property provides for a mixed-use development, including recreational and open space uses. All such uses shall be consistent with the permitted uses in the North Village Overlay Zone ("NVOZ").

D. This Agreement and the Site Plan meets the intent of, and is guided by, the Envision 2050 Heber General Plan.

E. The Parties now desire to enter into this Agreement to establish and set forth the rights and responsibilities of WDG and its successors in interest, including but not limited to, those developers, sub-developers and builders who will develop the Property as a mixed-use project in

accordance with the terms hereof, and to establish the rights and responsibilities of the City to annex the Property into the boundaries of Heber City and to authorize and regulate such development pursuant to the requirements of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and WDG hereby agree to the following:

TERMS

1. **Incorporation of Recitals and Exhibits/ Definitions.** **Incorporation.** The foregoing Recitals and **Exhibits A through D** are hereby incorporated into this Agreement.

1.2 **Definitions** Any capitalized term or phrase used in this Agreement has the meaning given to it below or in the section where the definition of such term is given.

1.2.1 **Act** means the Municipal Land Use, Development, and Management Act, Utah Code Ann. §§ 10-9a-101, *et seq.* (2023), as amended.

1.2.2 **Administrative Action** means and includes any amendment to the Exhibits to this Agreement or other action that may be approved by the Administrator as provided in Section 17.

1.2.3 **Administrator** means the Person designated by the City as the Administrator of this Agreement.

1.2.4 **Agreement** has the meaning set forth in the preamble and includes all Exhibits attached hereto.

1.2.5 **Public Gathering Areas** means any public owned area or public park identified on the Site Plan that is intended to provide services to the community at large.

1.2.6 **Applicant** means a Person submitting a Development Application, a Modification Application or a request for an Administrative Action.

1.2.7 **Backbone Improvements** means those improvements shown as such in the Infrastructure Plan and which are, generally, infrastructure improvements that are intended to support the overall development of the Property and not merely a part of the development of any particular Subdivision. Backbone Improvements are generally considered to be in the nature of “System Improvements,” as defined in Utah Code Ann. § 11-36a-101, *et seq.* (2023).

1.2.8 **Building Permit** means a permit issued by the City to allow construction, erection or structural alteration of any building, structure, private or public infrastructure, On-Site Infrastructure on any portion of the Project, or to construct any Off-Site Infrastructure.

1.2.9 **CC&Rs** means one or more declarations of conditions, covenants and restrictions regarding certain aspects of design and construction on the Property recorded or to be recorded with regard to the Property or any part thereof, as amended from time to time.

1.2.10 **Capital Facilities Plan** means a plan adopted or to be adopted by the City in the future to substantiate the collection of Impact Fees as required by State law.

1.2.11 **City** means the City of Heber, a political subdivision of the State of Utah.

1.2.12 **City Consultants** means those outside consultants employed by the City in various specialized disciplines such as traffic, hydrology or drainage to review certain aspects of the development of the Project.

1.2.13 **City Updated North Village Street Master Plan** shall mean the City's Street Master Plan and Street Capital Facilities Plan.

1.2.14 **City Updated North Village Stormwater Master Plan** shall have the meaning provided in Paragraph 12.3.

1.2.15 **City's Future Laws** means the ordinances, policies, standards, procedures and processing fee schedules of the City that will be in effect as of a particular time in the future when a Development Application is submitted for a part of the Project and that may, in accordance with the provisions of this Agreement, be applicable to the Development Application.

1.2.16 **City's Vested Laws** means the ordinances, policies, standards, procedures and processing fee schedules of the City related to zoning, subdivisions, development, public improvements and other similar or related matters that are in effect as of the Effective Date.

1.2.17 **Council** means the elected City Council of the City.

1.2.18 **Default** shall have the meaning provided in Paragraph 14.

1.2.19 **Design Guidelines** means the design guidelines referenced in the North Village Overlay Zone.

1.2.20 **Developer** shall have the meaning provided in Paragraph 22.

1.2.21 **Development Application** means an application to the City for development of a portion of the Project, a Building Permit, improvement plans or any other permit, certificate or other authorization from the City required for development of the Project.

1.2.22 **Development Property** shall have the meaning provided in Section 22.1.

1.2.23 **Development Report** means a report containing the information specified in Section 3.4 submitted to the City by WDG or any successor for the sale of any Parcel to a Developer, Sub-developer or Builder or the submittal of a Development Application by a Developer, Sub-developer or Builder pursuant to an assignment from WDG.

1.2.24 **Development Unit** means either a commercial or residential use of property with respect to which an ERU calculation can be applied in accordance with this Agreement.

1.2.25 **Effective Date** means the date on which the later of both the following shall have occurred: the Parties have executed this Agreement and the City's annexation of the Property has been completed and takes effect pursuant to Utah Code Ann. §10-2-425.

1.2.26 **Development Entitlements** shall have the meaning provided in Section 3.1 of this Agreement.

1.2.27 **Equivalent Residential Unit (ERU)** means the residential density allocated to: (a) any given Residential Unit when measured against a single-family dwelling unit, which measure shall be determined pursuant to Section 18.21.020.2.2(2) of the City's Vested Laws; and (b) commercial ERUs will be calculated as provided in Section 18.21.020.2.2(2) of the City's Vested Laws. For purposes of clarity, the Parties agree that no ERUs shall be allocated to schools and churches.

1.2.28 **Final Plat** means the recordable map or other graphical representation of land prepared in accordance with Utah Code Ann. § 10-9a-603, and approved by the City, effectuating a Subdivision of any portion of the Project.

1.2.29 **Highway 40** means a "state highway" type transportation corridor maintained by the Utah Department of Transportation and referred to as U.S. Highway 40.

1.2.30 **Homeowners' Association(s)** means one or more associations formed pursuant to Utah law to perform the functions of an association of property owners.

1.2.31 **Impact Fees** means those fees, assessments, exactions or payments of money imposed by the City as a condition on development activity as specified in Utah Code Ann. §§ 11-36a-101, *et seq.* (2023), as amended.

1.2.32 **Infrastructure Plan** means the conceptual infrastructure plan, including culinary water, secondary water, storm water, sanitary sewer and private roads, as amended from time to time.

1.2.33 **Intended Uses** means the use of all or portions of the Project for open spaces, parks, trails and other uses permitted in the Zoning Ordinance, Design Guidelines and as shown on the Site Plan.

1.2.34 **Modification Application** means an application to amend this Agreement (but not including those changes which may be made by Administrative Action).

1.2.35 **Mortgage** means (1) any mortgage or deed of trust or other instrument or transaction in which the Property, or a portion thereof or a direct or indirect ownership or other interest therein, or any improvements thereon, is conveyed or pledged as security, or (2) a sale and leaseback arrangement in which the Property, or a portion thereof, or any improvements thereon, is sold and leased back concurrently therewith.

1.2.36 **Mortgagee** means any holder of a lender's beneficial or security interest (or the owner and landlord in the case of any sale and leaseback arrangement) under a Mortgage.

1.2.37 **Non-City Agency** means a governmental or quasi-governmental entity, other than those of the City, which has jurisdiction over the approval of an aspect of the Project.

1.2.38 **North Fields** means that certain real property located generally west of the Property and generally depicted on **Exhibit C** attached hereto.

1.2.39 **Notice** means any notice to or from any Party to this Agreement that is either required or permitted to be given to another Party.

1.2.40 **Off-Site Infrastructure** means the off-site public or private infrastructure, such as roads and utilities, specified in the Infrastructure Plan that is necessary for development of the Property but is not located on the portion of the Property that is subject to a Development Application.

1.2.41 **On-Site Infrastructure** means the on-site public or private infrastructure, such as roads or utilities, specified in the Infrastructure Plan that is necessary for development of the Property and is located on that portion of the Property that is subject to a Development Application.

1.2.42 **On-Site Retention/Detention** shall mean a storm drain facility that is provided on-site upon private property within the development.

1.2.43 **Open Space** means the following: all parks (regardless of size or type); pedestrian, bicycle, and equestrian trails and pathways; passive open spaces, water features, and natural habitat areas; parkways and commonly maintained natural or landscaped areas; sidewalks, street tree plantings and medians; ballfields and recreational spaces (including, without limitation, any such facilities provided by or upon a school or church site, excepting areas within building footprints other than community gardens); drains and detention basins and swells, canals, protected slope areas, and any other quasi-public area that the City determines to be Open Space as a part of the approval of a Development Application. Open Space includes, but is not limited to, those areas identified as Open Space in the Site Plan.

1.2.44 **Outsourcing** means the process of the City contracting with City Consultants or paying overtime to City employees to provide technical support in the review and approval of the various aspects of a Development Application, as is more fully set out in this Agreement.

1.2.45 **Parcel** means an area identified on the Site Plan with a specific land use designation that is intended to be further subdivided for future development.

1.2.46 **Person** means any natural person, corporation, Limited Liability Company, trust, joint venture, association, company, partnership, limited partnership, governmental authority or other entity.

1.2.47 **Phase** means the development of a portion of the Project.

1.2.48 **Planning Commission** means the City's Planning Commission.

1.2.49 **Project** means the mixed-used Site Plan to be developed on the Property in accordance with this Agreement, including, without limitation, all associated public and private facilities, Intended Uses, Phases and all of the other aspects approved as part of this Agreement and the Site Plan.

1.2.50 **Property Owner or Property Owners** means WDG and any other successor-in-interest to WDG as an owner of the Property or any portion

thereof, including but not limited to, Developers, Sub-developers and builders.

1.2.51 **Site Plan** means the Site Plan attached as **Exhibit B**.

1.2.52 **Sub-developer** means any Person that obtains title to a Parcel from a Developer for development.

1.2.53 **Subdivision** means the division of any portion of the Project into a subdivision pursuant to State Law and/or the Zoning Ordinance.

1.2.54 **System Improvement** means those elements of infrastructure that fall within the definition of System Improvements pursuant to Utah Code Ann. § 11-36a-102(21). System Improvements shall be defined as set out in the North Village Capital Facilities Plans and Master Plans.

1.2.55 **Zone** means the City's North Village Overlay District Zone.

1.2.56 **Zoning Ordinance** means the City's Land Use and Development Ordinance adopted pursuant to the Act that is in effect as of the Effective Date.

2. **Development of the Project.** Development of the Project shall be in accordance with this Agreement, the City's Vested Laws and the City's Future Laws as expressly set forth in this Agreement. The Parties acknowledge and agree that if there is a conflict with this Agreement and the City's Vested Laws or the City's Future Laws, then this Agreement shall supersede and take precedence.

3. **Development of the Property in Compliance with the Site Plan.**

3.1 **Project Density.** Property Owners shall be entitled to and are vested with the right to develop and construct up to 107 residential ERUs and up to 20 commercial ERUs on the Property consistent with the Intended Uses specified in the Zoning Ordinance and generally identified on the Site Plan (collectively, the "**Density Entitlements**"). The Density Entitlements include the 5 residential ERUs of the Low Income Housing as detailed in Section 3.6 of this Agreement.

3.2 **Intended Uses by Parcel and Densities.** Intended Uses and Densities currently contemplated for each Parcel are shown on the Site Plan for the Property, which plan has been prepared in compliance with the requirements of the Heber City ordinances set forth in Chapter 17.20 Plans of the City's Vested Laws. The street configurations, building types and locations, and general layout shall comply with Site Plan.

3.3 Use of Density. Notwithstanding the maximum gross density permitted under the Zone, WDG may allocate the Development Entitlements among any Subdivision within the Project;

3.4 Accounting for Density for Parcels Sold to Sub-developers. In connection with the sale of any Parcel sold by WDG to a Developer or Sub-developer, WDG shall provide the City with a written document specifying the identity of the Person to whom the Parcel is sold, the allocation, if any, of any Development ERUs associated with such Parcel, and the Open Space requirements and/or obligations associated with such Parcel. In connection with the recordation of a Final Plat or other document of conveyance for any Parcel sold to a Developer or Sub-developer, WDG shall provide the City Recorder with a development report (a “**Development Report**”) identifying the Parcel(s) sold, the Residential Development ERU and/or other type of use or Development Unit allocated with the Parcel(s), the Development ERU remaining with WDG and any material effects of the sale on the Site Plan.

3.4.1 Return of Unused Density. If a Developer or Sub-developer cannot or does not utilize all of the Development ERU allocated to it in connection with the transfer of one or more Parcels at the time the Developer or Sub-developer receives approval for the final Development Application for such transferred Parcel(s), the unused Development ERU shall automatically revert back to WDG. Such Development ERU shall be accounted for in any subsequent Development Report that WDG, or any of its successors in interest may be required to file with the City Recorder.

3.5 Parcel Sales. The City acknowledges that the precise location and details of the public improvements, lot layout and design and any other similar item regarding the development of a particular Parcel may not be known at the time of the sale of a Parcel.

3.6 Low Income Housing Requirements. Developer shall construct not less than 5 ERUs of Low Income Housing within the Development. Low Income or Affordable Housing shall be sold or rented, as applicable, to individuals or families with an income of 60% or less of the average median income (AMI) in Wasatch County, Utah and the monthly cost shall not be more than 30% of a household's income. Low Income Housing units shall be deed restricted to maintain the same level of affordability in perpetuity. WDG shall reasonably disperse the Low Income Housing units throughout the Project. WDG shall also be entitled to allocate any such Low Income Housing requirements to Developers and/or Sub developers as WDG may elect. The Low Income Housing ERUs shall be developed on a proportional basis with the development. Developer and the City shall follow and comply with any deed restrictions as outlined in Chapter 18.102 of the City's

Vested Laws. WDG may not pay a fee in lieu to fulfill the requirements of the Low Income Housing unless specifically agreed to by the City.

3.6.1 Allocation of Low Income Housing. At least one half of the required affordable housing (ERUs) shall be sold to parties that shall be required to reside in the units as their primary residence, with a specific restriction on any units that are sold that prevent such units from being rented. ERUs constructed as Low Income Housing in the Project shall be deed restricted and preserved in perpetuity for those income qualified at 60% or less of the Average Medium Income for Wasatch County, Utah.

3.6.2 Rights of First Offer. Heber City, or its designee, shall have the first right to purchase any all affordable dwelling units that are offered for sale on an individual basis (a.k.a. AMI deed restricted properties, or affordable deed restricted units) (“City ROFR”). Such City ROFR shall not apply to the sale of the entire Project by WDG or its then current owner. If Heber City does not exercise or execute on its City ROFR, then WDG, and its successors, shall grant or cause the applicable Developers and/or Sub-developers to grant employees of the following entities, in descending order of priority, a right to purchase Low Income Housing constructed, operated and offered for sale on an individual basis as affordable housing and available within the Project and that are offered for sale on an individual basis to income qualifying households otherwise meeting the requirements of this Agreement: the **City**, the Wasatch County School District (the “**District**”) and Wasatch County (the “**County**”). If employees of the City, the District, and the County do not exercise their respective first rights, the applicable Low Income Housing Units may be sold, as the case may be, to members of the general public meeting the income qualification requirements, employed in Wasatch County and living or desiring to live in Wasatch County.

3.6.3 Deed Restrictions Protecting the Affordability and Sustainability of the Affordable Homes.

a. Prior to transfer of ownership from Developer/ Owner of any Affordable Housing Units/ Homes, Developer/ Owner shall negotiate and enter into with the City a **Deed Restrictions Covenant** (which shall be recorded with the Wasatch County Recorder) that shall serve as a Covenant Running With the Land to protect the affordability and sustainability of the Affordable Units/homes. Some of the terms of such a Covenant should include, but shall not be limited to the following:

1. The Covenant is to provide and articulate terms, conditions, and restrictions. The Covenant shall be enforceable by

the City and, upon its execution and recording in the public records of the County Recorder of Wasatch County, Utah, shall run with the land, enforceable against the Owners; each Unit Owner, and each Unit Owner's successors interest, assignees, heirs, devisees, mortgagees, lessees, trustees, beneficiaries, executors, administrators, personal representatives; any subsequent owners; and any other parties claiming an interest in the Property. In addition to the recording of this Covenant, Developer/Owner shall cause that any deed or plat map associated with any affordable housing properties or units shall reference said Covenant.

2. The City shall forever retain the right to purchase any and all Affordable housing units that are offered for sale to individual owners, in perpetuity, pursuant to such a Covenant running with the land and units. Such City ROFR shall not apply to a sale of the entire Project.

3. The City shall have the right to enforce the terms of such a Covenant and may enforce its terms as it deems administratively proper through its employees, administrative offices, agents, or assigns. The Heber City Police Department shall be authorized to investigate certain affordable housing violations and to issue citations pursuant to applicable City Code and State Statute. The City may enforce this Covenant by any appropriate legal or equitable action including but not limited to specific performance, injunction, abatement, damages and such other remedies and penalties as may be specified in this Covenant. This Covenant shall inure to the benefit of the City and nothing herein shall be construed as creating a general scheme to be enforced by Unit Owners against each other.

4. At least 50% of the required affordable ERUs shall be Owner/Renter-Occupied unless a Unit Owner/Renter shall receive prior written consent of the City, in its sole and absolute discretion, for an exception. Each of these Unit Owners/Renter shall occupy the Unit as a Primary Residence. Unless the City gives its prior written consent, each Unit Owner shall not obtain, purchase, or otherwise acquire any other direct or indirect interest in real property while the Unit owner is a Unit Owner; neither the Unit Owner nor any person in the Unit Owner's Household shall establish a trust of which the Unit Owner is a beneficiary if such trust's corpus contains any other real property.

5. The Unit Owner shall send Notice to the City of such Unit Owner's intent to sell the unit (the date of such Unit Owner's Notice to the City shall be the "Offer Date") and shall not Sell any interest in such Unit without written consent of the City.

3.6.4 Off-site Low Income Housing. The Developer and City may enter into a separate agreement to allow some or all of the affordable housing units to be constructed off site on property owned by the City, third parties or other entities.

3.6.5 Timing. At least 50% of the required Low Income Housing units shall be constructed no later than the construction of the first 30% of the Market Rate units. The full Low Income Housing requirement shall be completed no later than construction of the first 60% of the Market Rate units.

3.7. Non-Residential Development Timing. Notwithstanding anything herein to the contrary, the City shall not issue a residential building permit for the Project unless and until the City has issued a commercial building permit for the Project. ~~Any~~ All other commercial areas shown ~~upon~~ in the Master Plan for the development shall be rough graded and provided with access to adequate utilities to serve the land uses no later than the construction of 60% of the residential units within the development.

4. Zoning and Vested Rights.

4.1 Compliance with City Requirements and Standards. Developer and Owners expressly acknowledge that nothing in this Agreement shall be deemed to relieve Developer or any Continuing or Successor Owner from its obligations to comply with all applicable requirements of the City necessary for approval and recordation of subdivision plats and site plans for the Project, which are in place at the time of a complete and approved application, including the payment of unpaid fees, the approval of subdivision plats and site plans, the approval of building permits and construction permits, and compliance with all applicable ordinances, resolutions, policies and procedures of the City except as otherwise provided in this Agreement. Specifically, Developer and Owner acknowledge and agree that the Project must adhere to the City Updated North Village Storm Water and the North Village Street Master Plans.

4.2 Current Zoning. Concurrently with its execution of this Agreement, the City has annexed the Project to the City and zoned the Property under the North Village Overlay District Zone. The North Village Overlay District Zone (Section 18.21.010 and Section 18.21.060 of the Heber City Code) was approved by the Council on March 16, 2021.

4.3 **Term of Agreement.** The term of this Agreement shall commence on the Effective Date and continue either for a period of ten (10) years, or the day upon which the final certificate of occupancy is approved and granted, whichever first occurs, (the “**Term**”), unless it is terminated in accordance with Section 26. The Term may, at WDG’s option, be extended for one (1) additional five (5) year period, provided WDG is not in material default of any provisions of this Agreement and after providing the City with written notice not less than six (6) months prior to the scheduled expiration date. Unless otherwise agreed between the Parties, WDG’s vested rights and interests set forth in the Agreement shall expire at the end of the Term, or as the Term may be extended by mutual agreement of the Parties. Upon termination of this Agreement for any reason, the obligations of the Parties to each other created under this Agreement shall terminate, but none of the licenses, building permits, or certificates of occupancy granted prior to the expiration of the Term or termination of this Agreement shall be rescinded or limited in any manner, nor will any rights or obligations of Property Owners or the City intended to run with the land be terminated.

5. **Approval Processes for Development Applications.**

5.1 **Phasing.** The City acknowledges that WDG, Developers, and Sub-developers who have purchased Parcels of the Property may submit multiple applications from time to time to develop and/or construct portions of the Project in phases.

6. **Open Space, Improved Public Parks, and Trails Requirements**

6.1 **Development Timing: Open Space, Neighborhood Parks, and Trails.** Neighborhood Parks and Trails shall be constructed and developed concurrently with the respective development within which said trails are located. The City shall not be obligated to make final approval and place into warranty any public improvements located within or constructed in conjunction with the development of a particular Phase until the parks and trails located within such Phase have been constructed, or the City has received an improvement completion assurance in the form of either a cash escrow deposit, a letter of credit or such other form of completion assurance as may then be accepted by the City with respect to such parks and trails meeting the requirements of Utah Code § 10-9a-604.5. Open space, parks and trails shall comply with the requirements of the NVOZ.

6.2 **Dedication of Open Space or Trails.** Property within the canal easements shall be granted and dedicated by the Property Owner to the City, or other public entity as determined by the City. Dedication of Trails to the City shall be by plat recordation or by dedication by deed from the applicable Property Owner which shall be without any financial encumbrance or other encumbrance (including easements) which unreasonably interferes with the use of the property for Open

Space and/or Trails. If trails are established solely for the internal use by Homeowners' Association, no public easement shall be granted by WDG or any other Property Owner. Construction and dedication of the Highway 40 trail shall occur within the first phase of development.

6.3 Maintenance of Open Space/or Trails. Except as otherwise specifically provided in this Agreement, upon acceptance by the City of Trails and after formal possession, the City shall be responsible for maintaining the Public Trail after final inspection and acceptance of the applicable improvements included therein, if any. If the Trails are dedicated to an entity other than the City, the dedication shall provide for the maintenance of the applicable Trails. Unless approved by, and dedicated to the City, any associated landscaping with such Trails shall be maintained by the respective property owners association.

6.4 Tax Benefits. The City acknowledges that Property Owners may seek to qualify for certain tax benefits by reason of conveying, dedicating, gifting, granting or transferring Open Space and/or Trails to the City or to a charitable organization. Property Owners shall have the sole responsibility to claim and qualify for any tax benefits sought by Property Owners by reason of the foregoing. The City shall reasonably cooperate with Property Owners to the maximum extent allowable under law to allow Property Owners to take advantage of any such tax benefits.

6.5 North Fields Preservation. WDG, for itself and with respect to each subsequent Owner of the Property, agrees that upon issuance of a building permit for a Development Unit, the Owner of such Development Unit shall pay to the City a fee equal to \$2,500 per ERU or partial ERU attributable to such Development Unit (the "**North Fields Preservation Fee**"). The City shall utilize funds collected pursuant to the North Fields Preservation Fee solely for the purpose of preserving open space in the North Fields, including purchase of development rights. The City agrees that the North Fields Preservation Fee shall not be charged for Development Units constructed and operated as Low Income Housing Units.

7. Public Improvements.

7.1 Utilities and On-Site Infrastructure. WDG shall prepare an Infrastructure Plan (a/k/a Civil Drawings). The Parties acknowledge that there will be a Capital Facilities Plan for the Public Infrastructure approved and adopted by the City. The Property Owners shall have the responsibility and obligation, to construct and fund, or cause to be constructed and installed, in phases, the On-Site and Off-Site Infrastructure according to the Capital Facilities Plan that is necessary to support the development proposed within a specific Development Application. If any Property Owners elect to construct any On-Site Infrastructure or Off-Site Infrastructure required by the Capital Facilities Plan as a condition of approval of a Development Application, the Property Owner shall pay the cost thereof, subject to

its reimbursement rights set forth in Section 7.2. The City shall comply with the statutory processes and all other applicable laws, rules, and regulations governing such work. Parties contemplate that each Phase will be served by sanitary sewer, culinary water and secondary irrigation systems provided by others.

7.2 Excess Improvements/Upsizing. Any infrastructure requested by the Developer or required by the Development shall be the responsibility of the Developer. The City and WDG acknowledge and agree that, as a part of the Capital Facilities Plan, certain portions of the infrastructure improvements shown on the Capital Facilities Plan (including both On and Off-site Infrastructure) may need to be enlarged, increased or otherwise “upsized” or upgraded (collectively, the “**Excess Improvements**”) at the request of the City or other responsible Non-City Agency to serve, directly or indirectly, developments or future developments on land areas outside of the Project’s boundaries or owned by parties other than Property Owners (collectively, the “**Benefitted Property**”). In recognition of the foregoing, and as a material inducement to the execution of this Agreement by WDG:

7.2.1 Reimbursements. The City agrees that it shall reimburse the applicable Property Owners for, or to the extent permissible under then-applicable law and as identified in the approved Capital Facilities Plan, costs incurred by the applicable Property Owners in the construction of Excess Improvements. Subject to the City’s approval, Property Owners may, from time to time, oversize and/or install and construct portions of the infrastructure specified in the Infrastructure Plan that are System Improvements. The City shall ensure that Property Owners, as applicable, are reimbursed for actual costs from Impact Fees for oversizing. City shall also make available reimbursement/pioneering agreements to reimburse Property owners-for installing Off-site System Improvements to serve their property as required by State law. Said pioneering agreements shall have a maximum duration of 10 years from the date of City’s acceptance of associated improvements.

7.2.2 Building Fee and Impact Fee Credits. To the extent that any reimbursements paid to a Property Owner pursuant to the Reimbursement Procedures do not fully reimburse Property Owners for the amounts expended or costs incurred by the Property Owner in the construction of the Excess Improvements, City shall credit the applicable Property Owner up to the value of such deficiency against the Impact Fees applicable to the Project.

7.2.3 Backbone Improvements. Property Owners shall not be compensated for any “upsizing” of the Backbone Improvements that are

not included as System Improvements in the approved Capital Facilities Plan.

7.3. Variations between Infrastructure Plan, Capital Facilities Plan and any City's Future Capital Facilities Plan. The Parties acknowledge that the City may adopt a new or amended Capital Facilities Plan. Additionally, the City may adopt new or amended Impact Fee ordinances as permitted by State Law for the collection of Impact Fees to pay for the construction of parts or all of the Backbone Improvements. The new Capital Facilities Plan shall in no way change any land uses or permitted uses of the Project; limit or control the rate, timing, phasing or sequencing of the approval, development or construction of all or any part of the Project in any manner so long as all applicable requirements of this Agreement and relevant sections of the Zoning Ordinance are satisfied. The Capital Facilities Plan and any future Capital Facilities Plan may differ from the Infrastructure Plan. As a part of the approval of a Development Application, the City may require Property Owners to build portions of the Backbone Improvements as shown on the Capital Facilities Plan (after it is adopted) instead of as shown on the Infrastructure Plan. Notwithstanding the above, nothing herein obligates the City to pay for the minimum backbone infrastructure needed for the Project.

7.5 No Additional Off-Site Infrastructure Requirements. Notwithstanding anything to the contrary in the City's Vested Laws, the City shall not, directly or indirectly, charge Developers or Sub-developers, or any of their respective affiliates or successors, any development fees, impact fees, water hookup fees, or any similar fees, charges, assessments or exactions for Off-Site Infrastructure not contemplated in the Capital Facilities Plan, or subsequent updates to said Plan. However, any and all such development fees, impact fees, water hookup fees, or any similar fees, charges, assessments or exactions for On-Site Infrastructure, shall be borne by Developers and Sub-developers, or any of their respective affiliates or successors, or residents, regardless of whether they are off-site or on-site, pursuant to the Capital Facilities Plan. If Developer or Sub-developer is required to build Off-Site Infrastructure, and subject to the aforementioned 10 year limited duration, in the event pioneering agreements are used, the City would collect a pro-rata share from future, benefitting developers.

7.6. Modifications of Infrastructure Locations and the Boundaries of the Development Areas. The City acknowledges that the exact locations of On and Off-Site Infrastructure and the boundaries of the Parcels are conceptual in nature and that additional surveying, engineering and similar studies are needed to finalize lot locations, road and utility alignments as well as road and utility sizing. Therefore, Parcel boundaries, road and utility alignments and, subject to the requirements of this Agreement, infrastructure sizing may be further modified and revised upon the City's approval of subsequent Development Applications in accordance with subsequent subarea infrastructure Site Plans that will be prepared

by Developer for each Phase, and the City's Vested Laws, all subject to City final approval.

7.7 Utilities Provided by the North Village Special Service District (NVSSD) and the Jordanelle Special Service District (JSSD). The Parties acknowledge that the Project is currently served by the NVSSD and the JSSD for sewer and water, including secondary water. It is the intent by both Parties that the NVSSD and the JSSD shall continue to serve the project for these utilities through such service districts as long as they have capacity and are capable of serving. The Developer shall provide Commitment Letters from JSSD and NVSSD for the plat and/or phase being served before final approval for that particular plat is granted. Water for phases and all amenities shall be dedicated up front. If at any time it is deemed unfeasible to have JSSD or NVSSD serve the Project, the Developer shall secure other service providers. The City shall not be liable or responsible to provide such services.

7.8. Water Rights. Developers shall be required to comply with the JSSD and NVSSD water policies generally applicable to all NVSSD customers.

7.9. Streets. Street frontage shall be improved in compliance with the City's Standards and Specifications and the NVOZ.

Developers shall obtain UDOT access approval for any accesses onto a state highway, and shall comply with the Highway 40 Access Management Agreement.

~~At the time of development, a transportation hub (area with a bus stop bench and bus turnout), will provided to the satisfaction of the City Engineer within each development, at a location that is central to the transportation network and convenient for access to the center of density within the development.~~

7.10 Off-Site Connectivity. All trails, canals, ditches and roads shall connect with existing and internal trails, canals, ditches and roads located immediately adjacent to the Project such that there is consistent, smooth linkage and connectivity with any and all municipal systems.

8. Cable/Fiber Optic Service. Subject to all applicable federal and state laws, as well as the City's authorization and capacity to timely install in a reasonable manner all required infrastructure and provide such service, WDG agrees that the City shall be the sole cable/fiber optic network provider for the Development. The City shall install or cause to be installed all underground conduits necessary to make available a minimum of one cable service/fiber optic communication provider, or other comparable information and communication service provider, within the Project. WDG shall cooperate and reasonably accommodate the City's installation and development of said cable service/fiber optic network, (CFON). Notwithstanding the foregoing, Property Owners may contract with any cable TV/fiber optic and other communication provider of their own choice and grant an exclusive right of access and/or easement to such provider to

furnish cable TV/fiber optic and other communication services for those dwelling units or other uses on such Property Owner's real property so long as the property is private and not dedicated to the public. The City may charge and collect all taxes and fees with respect to cable, fiber optic and other communication lines as allowed under an applicable City ordinance or state law.

9. **CC&Rs.** As more fully set forth in the CC&Rs, Property Owners shall create and establish one or more Property Owners' Associations, which shall be responsible for the implementation and enforcement of the CC&Rs and the Design Guidelines, including but not limited to architectural reviews, water efficiency, wildfire education, open space, and private street and storm water system maintenance. The CC&R's shall contain a blanket provision that prohibits the nightly rental of any residential unit located on the Property and indicate that the nightly rental prohibition was a condition of development approval and may not be amended without the permission of the City. Recordation of the CC&Rs and creation of such Property Owners' Associations shall be required at the time of Final Plat review and approval. The City shall not be responsible for the implementation and/or enforcement of any such CC&Rs and Design Guidelines.

10. **Fees & Bonding.**

10.1 **General Requirement of Payment of Fees.** The City acknowledges its fees are subject to applicable State law. The City's impact fee requirements will be set forth in the City's approved Capital Facilities Plan for the Project area to be developed subsequent to this Agreement and incorporated herein.

10.2 **Bonding.** Property Owners, Developers or Sub-developers, as applicable, shall provide performance or warranty bonds, per the Heber City Code, for any on-site or off-site, publicly dedicated infrastructure or similar improvements for the Project (the "**Security**"), including, without limitation, roads, curb and gutter, storm drains, sewer, water, street lighting, signs, sidewalks, landscaping within public rights of way, public open space, public parks and trails.

11. **Construction Standards and Requirements.**

11.1 **Building Permits.** No buildings or other structures that require permits, shall be constructed within the Project without the Developer or Sub-developer first obtaining building permits in accordance with the City's Vested Laws. Developers and Sub-developers may apply for and obtain a grading permit following Preliminary Site Plan approval if the Developers or Sub-developers, as applicable, have submitted and received approval of a site-grading plan and SWPPP and subject to a Land Disturbance Permit issued pursuant to Section 12 below.

11.2 **City and Other Governmental Agency Permits.** Before commencement of construction or development of any buildings, structures or other work or improvements upon any portion of the Project, a Developer or Sub-developer shall, at their expense, secure, or cause to be secured, any and all permits which may be

required by the City under the City's Vested Laws or any other governmental entity having jurisdiction over the work. The City shall reasonably cooperate with Developers Sub-developers in seeking to secure such permits from other governmental entities.

11.3 **Limitation to Four Stories.** No structure in the Project shall exceed three stories along Highway 40 ~~four (4) stories in height~~ unless approved by the City Council.

12. Grading, On-Site Processing of Natural Materials; Storm Water Management.

12.1 **On-Site Processing of Natural Materials.** Property Owners may use the natural materials located on the Project, including, without limitation, sand, gravel and rock, and subject to City's Vested Laws, may process such natural materials into construction materials, including, without limitation, aggregate or topsoil, for use in the construction of On and Off-Site Infrastructure, commercial buildings, residential structures, or other buildings or improvements located in the Project and other locations outside the Project. Property Owner shall remediate any damage to trails, infrastructure, drainage or natural water features caused by such use. Notwithstanding this provision, this does not permit the construction of any subdivision or site-specific improvements prior to the requisite Final Plat review and approval for such improvements. Any such uses shall not be considered gravel pits.

12.2 **Storm Water Management.** The Parties acknowledge that the City is presently contemplating a future regional storm water master plan (as finalized and adopted by the City, the "**City Updated North Village Stormwater Master Plan**"). Concurrent with Provision 4.1 above, WDG shall be required to comply with all future policies and standards of the North Village Stormwater Master Plan and associated Stormwater Design Manual, yet to be adopted, and all standards and requirements of any and all exhibits attached and incorporated into this Agreement, including but not limited to the Engineering Review Letter.

12.2.1 As a condition of annexation, as outlined in the **City Updated North Village Storm water Master Plan**, Developer and Property Owner shall restore or replace the historic, natural drainage channels downstream of the existing irrigation canals, as outlined and contemplated in the above referenced Master Plan.

12.3. **Future Transportation Plan.** The Parties acknowledge that the City is presently contemplating a future Updated North Village Transportation Plan (as finalized and adopted by the City, the (when finalized and adopted by the City, the "**City Updated North Village Transportation Plan**"). Concurrent with Provision 4.1 above, WDG shall be required to comply with all future policies and standards

of the North Village Transportation Plan, yet to be adopted, and all standards and requirements of any and all exhibits attached and incorporated into this Agreement, including but not limited to the Engineering Review Letter.

13. **Provision of Municipal Services.** The City shall provide all City services to the Project that it provides from time to time to other residents and properties within the City including, but not limited to, development services and inspections, road and streetlight maintenance on public streets, police, and other emergency services. Such services shall be provided to the Project at the same levels of service, and on the same terms and rates as provided to other residents and properties in the City, unless such services are provided by other entities, or, because of the unique topography, location or other special or unique circumstances in the area covered by this Agreement, the cost to provide such services is higher than the like property rate throughout the City, and the City is able to demonstrate by empirical evidence, that such costs are a result of substantive additional or increased costs of municipal services, or financial burden to the City, then such additional costs, including but not limited to those required for additional special fire or police services, may be passed on to the Property Owners by way of special municipal service zonal fees, or some other equivalent of such fees. The City may charge such increased rate fees to Property Owners with respect to the Project, Phase, or sections of a Phase proportionate to their share of the increased cost.

14. **Default.** Any failure by any party to perform any term or provision of this Agreement, which failure continues uncured for a period of ten (10) calendar days following the receipt of written notice of such failure from the other party shall constitute a “**Default**” under this Agreement.

14.1 **Notice.** Any notice of default (“**Default Notice**”) shall: (1) specify the claimed event of Default; (2) identify with particularity the provisions of any applicable law, rule, regulation or provision of this Agreement that is claimed to be in Default; (3) identify why the claimed Default is claimed to be material; and (4) specify the manner in which said failure may be satisfactorily cured.

14.2. **Cure.** Following receipt of a Default Notice, the defaulting Party shall have thirty (30) days in which to cure such claimed Default (the “**Cure Period**”). If more than 30 days is required for such cure, the defaulting Party shall have such additional time as is reasonably necessary under the circumstances in which to cure such Default so long as the defaulting Party commences such cure within the Cure Period and pursues such cure with reasonable diligence. City may, in City’s sole discretion, withhold permits or approvals during any Cure Period.

14.3. **Developer’s Exclusive Remedy.** Developer’s sole and exclusive remedy under this Agreement shall be specific performance of the rights granted in this Agreement and City’s obligations under this Agreement. IN NO EVENT SHALL CITY BE LIABLE TO WDG, ITS SUCCESSORS OR ASSIGNS, OR ANY DEVELOPER, PROPERTY OWNER OR OTHER PARTIES UNDER THIS

AGREEMENT, FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS, COSTS OF DELAY, OR LIABILITIES TO THIRD PARTIES.

14.4 City's Remedies Upon Default. In addition to all other remedies available at law or in equity, City shall have the right to withhold all further reviews, approvals, licenses, building permits and other permits for development of the Property in the case of a Default by Developer, until the Default has been cured. City shall further have the right to draw on any security posted or provided in connection with the Property and relating to remedying of the particular Default.

14.5. Emergency Defaults. Anything in this Agreement notwithstanding, if the Council finds on the record in a public meeting that a Default by Property Owners materially impairs a compelling, countervailing public interest and that any delays in imposing a remedy to such a Default would also impair a compelling, countervailing public interest, the City may impose the remedies of Section 14.4 without any further requirements or obligations to the Property Owners. The City shall give Notice to Property Owners in accordance with the City's Vested Laws of any public meeting at which an emergency Default is to be considered and Property Owners shall be allowed to attend such meeting and address the Council regarding the claimed emergency Default.

14.6. Cumulative Rights. The rights and remedies set forth herein shall be cumulative.

15. Notices. All notices required or permitted under this Amended Development Agreement shall, in addition to any other means of transmission, be given in writing by certified mail and regular mail to the following address:

To the Property Owners:

WDG COLLEGE DOWNS LLC
Attn: Spencer Wright
1178 West Legacy Crossing Blvd
Centerville, UT 84014

To the City:

City of Heber
Attn: City Recorder
25 North Main Street
Heber, Utah 84032

15.1 **Effectiveness of Notice.** Except as otherwise provided in this Agreement, each Notice shall be effective and shall be deemed delivered on the earlier of:

15.1.1 **Physical Delivery.** Its actual receipt, if delivered personally, by courier service, or by facsimile, provided that a copy of the facsimile Notice is mailed or personally delivered as set forth herein on the same day and the sending Party has confirmation of transmission receipt of the Notice.

15.1.2 **Electronic Delivery.** Its actual receipt if delivered electronically by email, provided that a copy of the email is printed out in physical form and mailed or personally delivered as set forth herein on the same day and the sending Party has an electronic receipt of the delivery of the Notice.

15.1.3 **Mail Delivery.** On the day the Notice is postmarked for mailing, postage prepaid, by First Class or Certified United States Mail and actually deposited in or delivered to the United States Mail.

15.1.4 **Change of Notice Address.** Any Party may change its address for Notice under this Agreement by giving written Notice to the other Party in accordance with the provisions of this Section.

16. **Administrative Amendments.** 16.1 **Allowable Administrative Applications:** The following modifications to this Agreement may be considered and approved by the Administrator.

16.1.1 **Infrastructure.** Modification of the location and/or sizing of the infrastructure for the Project that does not materially change the functionality of the infrastructure.

16.1.2 **Design Guidelines.** Modifications of the Design Guidelines.

16.1.3 **Development Unit Allocations.** Any allocation of Development Unit densities to be made by WDG or its successors.

16.1.4 **Minor Amendment.** Any other modifications deemed to be minor modifications by the Administrator.

16.2 **Application to Administrator.** Applications for Administrative Amendments shall be filed with the Administrator. 16.2.1 **Referral by Administrator.** If the Administrator determines for any reason that it would be inappropriate for the Administrator to determine any Administrative Amendment, the Administrator may require the Administrative Amendment to be processed as a Modification Application.

16.2.2 **Administrator's Review of Administrative Amendment.** The Administrator shall consider and decide upon the Administrative

Amendment within a reasonable time not to exceed forty-five (45) days from the date of submission of a complete application for an Administrative Amendment. Applicant must provide all documents in their completed form and pay any required fee in accordance with State law.

16.2.3 Notification Regarding Application and Administrator's Approval. Within ten (10) days of receiving a complete application for an Administrative Amendment, the Administrator shall notify the Council in writing. Unless the Administrator receives a notice pursuant to these Sections, requiring that the proposed Administrative Amendment be considered by the Council as a Modification Application, the Administrator shall review the application for an Administrative Amendment and approve or deny the same within the 45-day period set forth in Section 16.2.2. If the Administrator approves the Administrative Amendment, the Administrator shall notify the Council in writing of the proposed approval and such approval of the Administrative Amendment by the Administrator shall be conclusively deemed binding on the City. A notice of such approval shall be recorded against the applicable portion of the Property in the official City records.

16.2.4 City Council Requirement of Modification Application Processing. If the Council requires the proposed Administrative Amendment to be considered by the Council as a Modification Application, it shall, within two (2) business days after the first Council meeting following notification by the Administrator pursuant to Section 16.2.3 above, notify the Administrator that the Administrative Amendment must be processed as a Modification Application, and that the Council shall be the final determining body for any and all Modification Applications.

16.2.5 Appeal of Administrator's Denial of Administrative Amendment. If the Administrator denies any proposed Administrative Amendment, the Applicant may process the proposed Administrative Amendment to the Council for final adjudication. The Council shall be the final determining body for any and all Modification Applications.

17. **Amendment.** Except for Administrative Amendments, any future amendments to this Agreement shall be considered as Modification Applications subject to the following processes:

17.1 **Submissions of Modification Applications.** Only the City or WDG or an assignee of WDG, approved in writing by the City, and one that succeeds to all of the rights and obligations of WDG under this Agreement may submit a Modification Application.

17.2 **Modification Application Contents.** Modification Applications shall:

17.2.1 **Identification of Property.** Identify the property or properties affected by the Modification Application.

17.2.2 **Description of Effect.** Describe the effect of the Modification Application on the affected portions of the Project.

17.2.3 **Identification of Non-City Agencies.** Identify any Non-City agencies potentially having jurisdiction over the Modification Application.

17.2.4 **Map.** Provide a map of any affected property and all property within three hundred feet (300') showing the present or Intended Use and density of all such properties.

17.2.5 **Fee.** Modification Applications shall be accompanied by a fee in an amount reasonably estimated by the City to cover the costs of processing the Modification Application.

17.3. **Mutual Cooperation in Processing Modification Applications.** Both the City and Applicants shall cooperate reasonably in promptly and fairly processing Modification Applications.

17.4 **Planning Commission Review of Modification Applications.**

17.4.1 **Review.** All aspects of a Modification Application required by law to be reviewed by the Planning Commission shall be considered by the Planning Commission as soon as reasonably possible in accordance with the City's Vested Laws in light of the nature and/or complexity of the Modification Application. The City shall not be required to begin its review of any application unless and until the Applicant has submitted a complete application.

17.4.2 **Recommendation.** The Planning Commission's vote on the Modification Application shall be only a recommendation.

17.5 **Council Review of Modification Application.** After the Planning Commission, if required by law, has made or been deemed to have made its recommendation of the Modification Application, the Council shall consider the Modification Application.

17.6 **Council's Objections to Modification Applications.** If the Council objects to the Modification Application, the Council shall provide a written determination advising the Applicant of the reasons for denial, including specifying the reasons the City believes that the Modification Application is not consistent with the intent of this Agreement and/or the City's Vested Laws (or, only to the extent permissible under this Agreement, the City's Future Laws).

17.7 Mediation of Council's Objections to Modification Applications. If the Council and Property Owners are unable to resolve a dispute regarding a Modification Application, the Parties shall attempt within seven (7) days to appoint a mutually acceptable expert in land planning or such other discipline as may be appropriate. If the Parties are unable to agree on a single acceptable mediator, each shall, within seven (7) days, appoint its own individual appropriate expert. These two experts shall, between them, choose the single mediator. Property Owners shall pay the fees of the chosen mediator. The chosen mediator shall within fourteen (14) days, review the positions of the parties regarding the mediation issue and promptly attempt to mediate the issue between the parties.

17.8 Amendments by WDG. Notwithstanding any other provision in this Agreement to the contrary, WDG may propose and if approved by the City, execute any amendment or other modification of this Agreement or the Site Plan, without the consent of any Property Owner provided that such amendments, modifications, land uses and density allocations: (a) are consistent with the requirements of the City's Vested Laws; and (b) shall not alter the ERU density allocated to such Property Owner identified in a duly executed Development Report or assignment from WDG or otherwise affect any development rights associated with such Property Owner's Development Property set forth in a property specific development agreement with the City pertaining to such Development Property or a recorded Subdivision Plat specific to such Development Property and no other portion of the Project. For avoidance of doubt, neither the City nor WDG shall be required to obtain the consent of any Property Owner or any subsequent owner of a portion of the Project in order to amend this Agreement pursuant to this Section 17.

18. Estoppel Certificate. Upon twenty (20) days prior written request by a Property Owner, the City will execute an estoppel certificate to any third party certifying that this Agreement has not been amended or altered (except as described in the certificate) and remains in full force and effect, and that such Property Owner is not in default of the terms of this Agreement (except as described in the certificate), and such other matters as may be reasonably requested by the Property Owner. The City acknowledges that a certificate hereunder may be relied upon by transferees and mortgagees.

19. Entire Agreement. Unless expressly provided herein, nothing in this Agreement shall be interpreted to conflict with, replace or waive any requirements, obligations, standards, duties, rights and enforcements afforded to the Parties, provided by and through the NVOZ Zone and Ordinance, and shall be interpreted and presumed by the Parties to be consistent, in harmony with, and incorporated herein with this Agreement. This Agreement and all Exhibits hereto, is the entire agreement between the Parties and may not be amended or modified except either as provided herein or by a subsequent written amendment signed by all Parties.

20. Headings. The captions used in this Agreement are for convenience only and a not

intended to be substantive provisions or evidences of intent.

21. **No Third-Party Rights/No Joint Venture.** This Agreement does not create a joint venture relationship, partnership or agency relationship between the City and Property Owner. Further, the Parties do not intend this Agreement to create any third-party beneficiary rights. The Parties acknowledge that this Agreement refers to a private development and that the City has no interest in, responsibility for or duty to any third parties, including but not limited to JSSD or NVSSD, concerning any improvements to the Property unless the City has accepted the dedication of such improvements at which time all rights and responsibilities for the dedicated public improvement shall be the City's.

22. **Assignability.**

22.1 **Transfer to Developers and Sub-developers.** Notwithstanding anything to the contrary in this Agreement, WDG or its successor may sell any portion of the Property to one or more parties (each a “**Developer**” or “**Sub-developer**”) at any time from and after the Effective Date. Each such transferred portion of the Property (each, a “**Development Property**”) shall be developed by the Developer and/or Sub-developer in accordance with and subject to the terms hereof, including, without limitation, the following:

22.1.1 Developer or Sub-developer shall assume in writing for the benefit of the City and Property Owners all of the obligations and liabilities of Property Owners hereunder with respect to the Development Property;

22.1.2 Developer and Sub-developer shall be afforded the rights of Property Owners granted hereunder in respect of the applicable Development Property only, including, without limitation, any rights of Property Owners in and the impact fee credits and/or reimbursements pertaining to such Development Property; provided, however, that unless WDG otherwise agrees in writing, Developer and/or Sub-developer shall not, in each case without the prior written consent of WDG, which may be granted or withheld in WDG's sole discretion:

(ii) submit any design guidelines to the City in respect to the Development Property and/or propose any amendments, modifications or other alterations to the Design Guidelines or any other design guidelines previously submitted by WDG Owners to the City in respect of the Development Property;

(iii) process any Final Plats, site plans or Development Applications for the Development Property and/or propose any amendments, modifications or other alterations of any approved

Final Plats, site plans, and/or Development Applications procured by WDG for the Development Property; or

(iv) propose or oppose any amendments, modifications or other alterations to this Agreement.

22.1.3 The City agrees not to accept or process any of the foregoing matters from a Developer and/or Sub-developer unless the matter has been approved by the owner of the Development Property.

22.1.4 WDG shall not amend, modify or alter this Agreement or the Design Guidelines, or any Final Plats, Development Agreements and/or site plans approved for the Development Property in a manner that would materially interfere with Developer and/or Sub-developer's rights hereunder in respect of such Development Property, in each case without Developer and/or Sub-developer's prior written consent, which shall not be unreasonably withheld, conditioned or delayed.

23. **Effect of Breach.** Notwithstanding any other provision of this Agreement, no breach or default hereunder, by any Person succeeding to any portion of a Property Owner's obligations under this Agreement shall be attributed to Property Owner. Nor may a Property Owner's rights hereunder be canceled or diminished in any way by any breach or default by any such Person. No breach or default hereunder by a Property Owner shall be attributed to any Person succeeding to any portion of such Property Owner's rights or obligations under this Agreement, nor shall such transferee's rights be canceled or diminished in any way by any breach or default by such Property Owner. During the development of the Project, until final approval of and dedication to the City, Developer, Owners or Owners, and their assigns, transferees, and sub-developers shall maintain the City as an additional named insured where reasonably possible, and without adding unreasonable cost, on any relevant or applicable liability insurance associated with the Project.

24. **Mortgagee Protection.** This Agreement shall be superior and senior to any lien placed upon the Property, or any portion thereof, including the lien of any Mortgage. Notwithstanding the foregoing, no breach of this Agreement shall defeat, render invalid, diminish or impair the lien of any such Mortgage made in good faith and for value, but all of the terms and conditions contained in this Agreement shall be binding upon and effective against any Person that acquires title to the Property, or any portion thereof, by foreclosure, trustee's sale, deed in lieu of foreclosure or otherwise. Notwithstanding the provisions of this Section, no Mortgagee shall have any obligation or duty under this Agreement to construct or complete the construction of improvements, or to guarantee such construction or completion. If the City receives a written notice from a Mortgagee requesting a copy of any notice of default given to a Property Owner or a Sub-developer and specifying the address for service thereof, then the City shall deliver to such Mortgagee, concurrently with service thereon to the Property Owner or a Sub-developer, as applicable, any notice of default or determination of noncompliance given to the Property Owner

or such Sub-developer. Each Mortgagee shall have the right (but not the obligation) for a period of 90 days after the receipt of such notice from the City to cure or remedy the default claimed or the areas of noncompliance set forth in the City's notice. If such default or noncompliance is of a nature that it can only be cured or remedied by such a Mortgagee upon obtaining possession of the Property, then such Mortgagee may seek to obtain possession with diligence and continuity through a receiver or otherwise, and shall within 90 days after obtaining possession cure or remedy such default or noncompliance. If such default or noncompliance cannot with diligence be cured or remedied within either such 90 -day period, then such Mortgagee shall have such additional time as may be reasonably necessary to cure or remedy such default or noncompliance if such Mortgagee commences such cure or remedy during such 90 -day period and thereafter diligently pursues completion of such cure or remedy to the extent possible.

25. Termination.

25.1 This Agreement shall be terminated and of no further effect upon the occurrence of any of the following events:

- (i) Expiration of the Term of this Agreement, unless extended as provided in Section 4.3;
- (ii) Completion of the Project in accordance with the Development Entitlements and the City's issuance of all required occupancy permits and acceptance of all dedications and improvements required under the Development Entitlements and this Agreement;
- (iii) Except for the payment of applicable fees and assessments, as for any specific residential dwelling or other structure within the Project, this Agreement shall be terminated for such dwelling or other structure upon the issuance by City of a certificate of occupancy therefore;
- (iv) Entry of final judgment (with no further right of appeal) or issuance of a final order (with no further right of appeal) directing City to set aside, withdraw, or abrogate City's approval of this Agreement,
- (v) The effective date of a party's election to terminate the Agreement as specifically provided in this Agreement, or
- (vi) in the event that Developer or the project are in default, or where material, contractual and developmental obligations are not met, or any deadlines and conditions of this Agreement, and relevant State and Federal Laws not fulfilled or are violated, after appropriate default notices and cure provisions of this Agreement.

25.2 Notice of Termination. City shall, upon written request made by Developer or Developer's successor(s) or assign(s) or any Owner to City's Planning Director, determine if the Agreement has terminated with respect to any parcel or lot at the Property, and shall not unreasonably withhold, condition, or delay termination as to that lot or parcel. Upon termination of this Agreement as to any lot or parcel, City shall upon Developer or Developer's successor(s) or assign(s) or any Owner's request record a notice of termination that the Agreement has been terminated. The aforesaid notice may specify, and Developer or Developer's successor(s) or assign(s) and Owners agree, that termination shall not affect in any manner any continuing obligation to pay any item specified by this Agreement. Termination of the Agreement as to any parcel or lot at the Property shall not affect Developer or Developer's successor(s) or assign(s) or any Owner's rights or obligations under any of the Development Entitlements and Subsequent Entitlements, including but not limited to, the General Plan, Specific Plan, Zoning Ordinance and all other City policies, regulations, and ordinances applicable to the Project at the Property. City may charge a reasonable fee for the preparation and recordation of any notice(s) of termination requested by Developer or Developer's successor(s) or assign(s) or any Owner.

25.3 Partial Termination. In the event of a termination of this Agreement with respect of any portion of the Property, any then-existing rights and obligations of the parties with respect to such portion of the Property shall automatically terminate and be of no further force, effect or operation. However, no termination of this Agreement with respect to any portion of the Property or the Project shall affect in any way the parties' rights and obligations hereunder with respect to any other portion of the Property or Project not subject to the termination. Subject to the provisions of the Default Paragraph 14, the expiration or termination of this Agreement shall not result in any expiration or termination of any Entitlement then in existence, without further action of City.

26. Insurance and Indemnification. Each Property Owner shall defend and hold the City and its officers, employees and consultants harmless for any and all claims, liability and damages arising out of the negligent actions or inactions of such Property Owner, its agents or employees pursuant to this Agreement, unless caused by the City's negligence or willful misconduct.

27. Hazardous, Toxic, and/or Contaminating Materials. Each Owner shall defend and hold the City and its elected and/or appointed boards, officers, agents, employees and consultants harmless from any and all claims, liabilities, costs, fines, penalties and/or charges of any kind whatsoever relating to the existence and removal, or caused by the introduction of hazardous, toxic and/or contaminating materials by such Property Owner on the Project or arising out of action or inactions of Developer, except where such claims, liability costs, fines, penalties and charges are due to the actions of the City or its elected or appointed boards, officers, agents, employees or consultants.

28. **Binding Effect.** If WDG or another Property Owner conveys any portion of the Property to one or more Sub-developers, the property so conveyed shall have the same rights, privileges, Intended Uses and configurations, and shall be subject to the same limitations and rights of the City, applicable to such property under this Agreement prior to such conveyance, without any required approval, review, or consent by the City, except as otherwise provided herein.

29. **No Waiver.** Failure of any Party hereto to exercise any right hereunder shall not be deemed a waiver of any such right and shall not affect the right of such Party to exercise at some future date any such right or any other right it may have.

30. **Severability.** If any provision of this Agreement is held by a court of competent jurisdiction to be invalid for any reason, the Parties consider and intend that this Agreement shall be deemed amended to the extent necessary to make it consistent with such decision and the balance of this Agreement shall remain in full force and affect.

31. **Force Majeure.** Any prevention, delay or stoppage of the performance of any obligation under this Agreement which is due to strikes, labor disputes, inability to obtain labor, materials, equipment or reasonable substitutes therefor; acts of nature, inclement weather, governmental restrictions, regulations or controls, judicial orders, enemy or hostile government actions, wars, civil commotions, fires or other casualties or other causes beyond the reasonable control of the Party obligated to perform hereunder shall excuse performance of the obligation by that Party for a period equal to the duration of that prevention, delay or stoppage.

32. **Time is of the Essence.** Time is of the essence to this Agreement and every right or responsibility shall be performed within the times specified.

33. **Appointment of Representatives.** To further the commitment of the Parties to cooperate in the implementation of this Agreement, the City and WDG each shall designate and appoint a representative to act as a liaison between the City and its various departments and WDG. The initial representative for the City shall be City Manager, or his designee and the initial representatives for WDG shall be Spencer Wright. The Parties may change their designated representatives by Notice. The representatives shall be available at all reasonable times to discuss and review the performance of the Parties to this Agreement and the development of the Project.

34. **Mutual Drafting.** Each Party has participated in negotiating and drafting this Agreement and therefore no provision of this Agreement shall be construed for or against either Party based on which Party drafted any particular portion of this Agreement.

35. **Applicable Law.** This Agreement is entered into in the City in the State of Utah and shall be construed in accordance with the laws of the State of Utah irrespective of Utah's choice of law rules.

36. **Recordation and Running with the Land.** This Agreement shall be recorded in the office of the Wasatch County Recorder. Copies of the City's Vested Laws, **Exhibit D**, shall not be recorded. A secure copy of **Exhibit D** shall be filed with the City Recorder and each Party shall also have an identical copy. The provisions of this Agreement shall constitute real covenants, contract and property rights and equitable servitudes, which shall run with all of the land subject to this Agreement. The burdens and benefits hereof shall bind and inure to the benefit of each of the Parties hereto and all successors in interest to the Parties hereto. All successors in interest shall succeed only to those benefits and burdens of this Agreement which pertain to the portion of the Project Area to which the successor holds title. Such titleholder is not a third party beneficiary of the remainder of this Agreement or to zoning classifications and benefits relating to other portions of the Project Area. The obligations of Property Owners hereunder are enforceable by the City, and no other Person shall or may be a third party beneficiary of such obligations unless specifically provided herein.

37. **Authority.** The parties to this Agreement each warrant that they have all of the necessary authority to execute this Agreement. Specifically, on behalf of the City, the signature of the Mayor of the City is affixed to this Agreement lawfully binding the City pursuant to City Policy. This Agreement is approved as to form and is further certified as having been lawfully adopted by the City by the signature of the City Attorney.

38. **Covenant of Good Faith and Fair Dealing.** No party shall do anything which shall have the effect of injuring the right of another party to receive the benefits of this Agreement or do anything which would render its performance under his agreement impossible. Each party shall perform all acts contemplated by this Agreement to accomplish the objectives and purposes of this Agreement.

39. **Further Actions and Instruments.** The Parties agree to provide reasonable assistance to the other and cooperate to carry out the intent and fulfill the provisions of the Agreement. Each of the parties shall promptly execute and deliver all documents and perform all acts as necessary to carry out the matters contemplated by this Agreement.

40. **Partial Invalidity Due to Governmental Action.** In the event state or federal laws or regulations enacted after the Execution Date of this Agreement, or formal action of any governmental jurisdiction other than City, prevent compliance with one or more provisions of this Agreement, or require changes in plans, maps or permits approved by City, the parties agree that the provisions of this Agreement shall be modified extended or suspended only to the minimum extent necessary to comply with such laws or regulations.

41. **Waiver of Rights Under Utah Code Section 10-9a-532.** Developer acknowledges and agrees that Developer has been represented by an attorney throughout this process. Developer acknowledges that this Agreement does not restrict any of Developer's rights under clearly established state law or that Developer has been advised in writing of any such rights being restricted. As an essential term of this Agreement, Developer hereby waives any claim that any term of this Agreement is void, illegal, invalid, or unenforceable as the result of any failure on

the City's part to disclose in writing any rights being restricted by this Agreement. Developer agrees that if Developer makes any claim that any portion of this Agreement is void because the City failed to disclose that this Agreement restricts any of Developer's rights under Utah Code § 10-9a-532, any vesting of density in this Agreement shall immediately terminate.

[Signatures appear on the following two pages.]

CITY

Heber City, a political subdivision of the State of Utah

By: _____

Name:

Its: _____

Approved as to form and legality:

Attest:

City Attorney

City Recorder

By: _____

By: _____

EXHIBIT A

TO DEVELOPMENT AGREEMENT FOR COLLEGE DOWNS MIXED USE RESIDENTIAL DEVELOPMENT

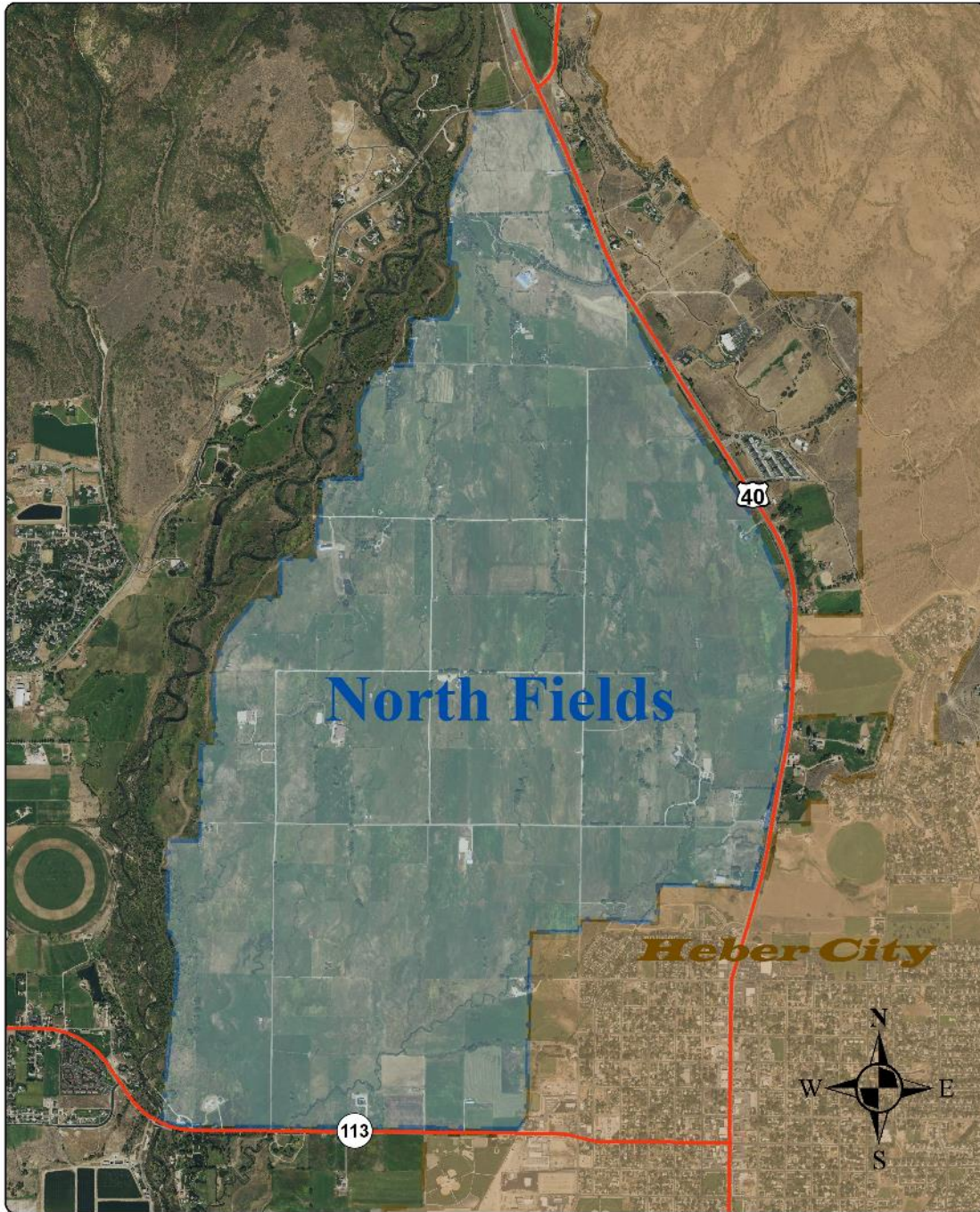
Legal Description

BEGINNING AT A POINT LOCATED NORTH 00°30'00" WEST ALONG THE SECTION LINE 132.85 FEET AND WEST 654.07 FEET FROM THE FOUND WASATCH COUNTY ALUMINUM CAP MARKING EH EAST 1/4 CORNER OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN; THENCE NORTH 32°00'23" WEST 1201.64 FEET TO THE HEBER CITY BOUNDARY AS SHOWN ON THE NORTH VILLAGE ANNEXATION PLAT; THENCE ALONG SAID HEBER CITY BOUNDARY AND THE NORTH VILLAGE ANNEXATION PLAT THE FOLLOWING 22 (TWENTY TWO) CALLS: 1. NORTH 42°02'19" EAST 253.96 FEET, 2. NORTH 89°51'56" EAST 493.00 FEET, 3. SOUTH 42°15'26" EAST 71.50 FEET, 4. ALONG THE ARC OF A 463.93 FOOT RADIUS CURVE TO THE LEFT 66.76 FEET (CHORD BEARS SOUTH 46°22'46" EAST 66.70 FEET), 5. SOUTH 50°30'06" EAST 70.63 FEET, 6. ALONG THE ARC OF A 226.74 FOOT RADIUS CURVE TO THE RIGHT 97.65 FEET (CHORD BEARS SOUTH 38°09'48" EAST 96.90 FEET), 7. SOUTH 25°49'31" EAST 80.79 FEET, 8. ALONG THE ARC OF A 234.73 FOOT RADIUS CURVE TO THE LEFT 109.51 FEET (CHORD BEARS SOUTH 39°11'26" EAST 108.52 FEET), 9. SOUTH 52°33'20" EAST 46.06 FEET, 10. ALONG THE ARC OF A 95.72 FOOT RADIUS CURVE TO THE RIGHT 27.55 FEET (CHORD BEARS SOUTH 44°18'34" EAST 27.46 FEET), 11. SOUTH 36°03'49" EAST 17.11 FEET, 12. ALONG THE ARC OF A 84.88 FOOT RADIUS CURVE TO THE LEFT 74.84 FEET (CHORD BEARS SOUTH 61°19'17" EAST 72.44 FEET), 13. SOUTH 86°34'45" EAST 55.03 FEET, 14. ALONG THE ARC OF A 70.00 FOOT RADIUS CURVE TO THE RIGHT 41.05 FEET (CHORD BEARS SOUTH 69°46'38" EAST 40.47 FEET), 15. NORTH 39°00'43" EAST 134.19 FEET, 16. SOUTH 00°28'04" EAST 215.78 FEET, 17. SOUTH 22°22'27" WEST 568.62 FEET, 18. NORTH 50°59'17" WEST 229.73 FEET, 19. ALONG THE ARC OF A 138.00 FOOT RADIUS CURVE TO THE LEFT 109.61 FEET (CHORD BEARS SOUTH 61°40'19" WEST 106.75 FEET), 20. SOUTH 39°00'43" WEST 127.93 FEET, 21. ALONG THE ARC OF A 248.00 FOOT RADIUS CURVE TO THE RIGHT 39.75 FEET (CHORD BEARS SOUTH 43°36'15" WEST 39.71 FEET), AND 22. SOUTH 48°11'46" WEST 70.25 FEET TO THE POINT OF BEGINNING. AREA = 20.35 ACRES

EXHIBIT B
TO DEVELOPMENT AGREEMENT FOR COLLEGE DOWNS MIXED USE RESIDENTIAL
DEVELOPMENT
Site Plan



EXHIBIT C
TO DEVELOPMENT AGREEMENT FOR COLLEGE DOWNS MIXED USE RESIDENTIAL
DEVELOPMENT
North Fields



WHEN RECORDED, RETURN TO:

Heber City
Attention: City Recorder
75 North Main Street
Heber City, Utah 84032

Tax Parcel Nos.:

(Space above for Recorder's use only.)

**DEVELOPMENT AGREEMENT
FOR THE
FINCH CREEK MIXED USE DEVELOPMENT**

THIS DEVELOPMENT AGREEMENT FOR THE FINCH CREEK MIXED USE DEVELOPMENT (this "**Agreement**") is made and entered into as of the 5th day of December, 2022, by and between HEBER CITY, a political subdivision of the State of Utah (the "**City**"), and Finch Creek, LLC, a Utah limited liability company ("**FINCH CREEK**"). Each of FINCH CREEK and the City are hereinafter referred to individually as a "**Party**" and collectively as the "**Parties**."

RECITALS

- A. The capitalized terms used in these Recitals are defined in Section 1.2, below.
- B. FINCH CREEK is the owner of approximately 11.63 acres of undeveloped real property located at 3320 N., 3390 N. and 3400 N. Hwy 40 (Parcel # 00-0021-2028, #00-0007-7847 & #00-0021-2027) in Wasatch County, State of Utah, a legal description of which is set forth in **Exhibit A**, attached hereto (the "**Property**"). This Agreement and the Site Plan meets the intent of, and is guided by, the Envision 2050 Heber General Plan.
- C. On Nov 15, 2022, the City approved and adopted, a Site Plan for the Project, subject to the Parties entering into this Agreement and the agreeing to annexation of the Property into the City. The Site Plan for the Property shall allow for a mixed use development, including recreational and open space uses. All such uses shall be consistent with the permitted uses in the NVOZ.
- D. Provision of infrastructure to the Property is vital to its development in accordance with the Site Plan and this Agreement and, consistent with the foregoing, FINCH CREEK will prepare an Infrastructure Plan (aka Civil Drawings).
- E. FINCH CREEK may not be the developer of the entire Property but may sell or otherwise convey some or all the Property to one or more Persons who will undertake the actual development work (each a "**Developer**" and together, the "**Developers**"). Notwithstanding that there may be sub-developers, transferees, purchasers or assignees from the original Developer or

Developers, only those parties that FINCH CREEK specifically designates in a written agreement as their “Successor”, or “Successor’s in Interest”, shall retain the right and standing to oppose, or seek amendment of this Agreement, or any other subsequent amendment thereto. Any third party not so specifically designated, that may purchase or receive portions, phases, lots or parts of this Development/Project, shall have no standing to oppose or seek amendment of any part of this Agreement, nor have any part in any negotiations to alter, change or amend. Additionally, notwithstanding the foregoing, once all backbone improvements are laid down, implemented and approved by the City, any subsequent Developer, Assignee, Successor, or Successor in Interest obtaining any portion, or part, or phase of this Development/Project by sale, transfer or assignment shall have no standing to oppose or seek to amend any portions of this Development/Project.

F. The Parties now desire to enter into this Agreement to establish and set forth the rights and responsibilities of FINCH CREEK and its successors in interest, including but not limited to, those developers, sub-developers and builders who will develop the Property as a mixed use project in accordance with the terms hereof, and to establish the rights and responsibilities of the City to annex the Property into the boundaries of Heber City and to authorize and regulate such development pursuant to the requirements of this Agreement.

G. The City Council has reviewed this Agreement and determined that it is consistent with the Act, the Zoning Ordinance and the Heber City General Plan, and that it provides for and promotes the health, safety, welfare, convenience, aesthetics, and general good of the community as a whole. The Agreement does not contradict, and specifically complies with, and is governed by Utah Code Ann Section 10-9a. The Parties understand and intend that this Agreement is a “development agreement” within the meaning of, and entered into pursuant to the terms of, the Act.

H. FINCH CREEK and the City have cooperated in the preparation of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and FINCH CREEK hereby agree to the following:

TERMS

1. Incorporation of Recitals and Exhibits/ Definitions.

1.1 **Incorporation.** The foregoing Recitals and **Exhibits A** through **E** are hereby incorporated into this Agreement.

1.2 **Definitions.** Any capitalized term or phrase used in this Agreement has the meaning given to it below or in the section where the definition of such term is given.

1.2.1 **Act** means the Municipal Land Use, Development, and Management Act, Utah Code Ann. §§10-9a-101, *et seq.* (2008).

1.2.2 **Administrative Action** means and includes any amendment to the Exhibits to this Agreement or other action that may be approved by the Administrator as provided in Section 17.

1.2.3 **Administrator** means the Person designated by the City as the Administrator of this Agreement.

1.2.4 **Agreement** has the meaning set forth in the preamble and includes all Exhibits attached hereto.

1.2.5 **Public Gathering Areas** means any public owned area or public park identified on the Site Plan that is intended to provide services to the community at large, such that it would be considered to be a System Improvement.

1.2.6 **Applicant** means a Person submitting a Development Application, a Modification Application or a request for an Administrative Action.

1.2.7 **Assessment Area** means an area or areas created by the Special Service District pursuant to Utah Code Ann. § 11-42-101, *et seq.* (2008), or other applicable State Law, with the approval of FINCH CREEK and other Property Owners, if required, to fund the construction of some or all of the Backbone Improvements.

1.2.8 **Backbone Improvements** means those improvements shown as such in the Infrastructure Plan and which are, generally, infrastructure improvements that are intended to support the overall development of the Property and not merely a part of the development of any particular Subdivision. Backbone Improvements are generally considered to be in the nature of "System Improvements," as defined in Utah Code Ann. § 11-36a-101, *et seq.* (2008).

1.2.9 **Building Permit** means a permit issued by the City to allow construction, erection or structural alteration of any building, structure, private or public infrastructure, On-Site Infrastructure on any portion of the Project, or to construct any Off-Site Infrastructure.

1.2.10 **CC&Rs** means one or more declarations of conditions, covenants and restrictions regarding certain aspects of design and construction on the Property recorded or to be recorded with regard to the Property or any part thereof, as amended from time to time.

1.2.11 **Capital Facilities Plan** means a plan adopted or to be adopted by the City in the future to substantiate the collection of Impact Fees as required by State law.

1.2.12 **City** means the City of Heber, a political subdivision of the State of Utah.

1.2.13 **City Consultants** means those outside consultants employed by the City in various specialized disciplines such as traffic, hydrology or drainage to review certain aspects of the development of the Project.

1.2.14 **City Updated North Village Street Master Plan** shall mean the City's Street Master Plan and Street Capital Facilities Plan.

1.2.15 **City Updated North Village Stormwater Master Plan** shall have the meaning provided in Paragraph 12.3.

1.2.16 **City's Future Laws** means the ordinances, policies, standards, procedures and processing fee schedules of the City that will be in effect as of a particular time in the future when a Development Application is submitted for a part of the Project and that may, in accordance with the provisions of this Agreement, be applicable to the Development Application.

1.2.17 **City's Vested Laws** means the ordinances, policies, standards, procedures and processing fee schedules of the City related to zoning, subdivisions, development, public improvements and other similar or related matters that are in effect as of the Effective Date.

1.2.18 Intentionally Omitted.

1.2.19 **Council** means the elected City Council of the City.

1.2.20 **Default** shall have the meaning provided in Paragraph 14.

1.2.21 **Design Guidelines** means the design guidelines referenced in the North Village Over Lay Zone.

1.2.22 **Developer** shall have the meaning provided in Recital E.

1.2.23 **Development Application** means an application to the City for development of a portion of the Project, a Building Permit, improvement plans or any other permit, certificate or other authorization from the City required for development of the Project.

1.2.24 **Development Property** shall have the meaning provided in Section 23.1.

1.2.25 **Development Report** means a report containing the information specified in Section 3.4 submitted to the City by FINCH CREEK or any successor for the sale of any Parcel to a Developer, Sub-developer or Builder or the submittal of a Development Application by a Developer, Sub-developer or Builder pursuant to an assignment from FINCH CREEK.

1.2.26 **Development Unit** means either a commercial or residential use of property with respect to which an ERU calculation can be applied in accordance with this Agreement.

1.2.27 **Effective Date** means the date on which the later of both the following shall have occurred: the Parties have executed this Agreement and the City's annexation of the Property has been completed and takes effect pursuant to Utah Code Ann. §10-2-425.

1.2.28 **Eligible Improvements** shall have the meaning provided in Section 8.9.

1.2.29 **Development Entitlements** shall have the meaning provided in Section 3.1 of this Agreement.

1.2.30 **Equivalent Residential Unit (ERU)** means the residential density allocated to: (a) any given Residential Unit when measured against a single-family dwelling unit, which measure shall be determined pursuant to Section 18.21.020.2.2(2) of the City's Vested Laws; and (b) commercial ERUs will be calculated as provided in Section 18.21.020.2.2(2) of the City's Vested Laws. For purposes of clarity, the Parties agree that no ERUs shall be allocated to schools and churches.

1.2.31 **Final Plat** means the recordable map or other graphical representation of land prepared in accordance with Utah Code Ann. §10-9a-603, and approved by the City, effectuating a Subdivision of any portion of the Project.

1.2.32 **Highway 40** means a "state highway" type transportation corridor maintained by the Utah Department of Transportation and referred to as U.S. Highway 40.

1.2.33 **Homeowners' Association(s)** means one or more associations formed pursuant to Utah law to perform the functions of an association of property owners.

1.2.34 **Impact Fees** means those fees, assessments, exactions or payments of money imposed by the City as a condition on development activity as specified in Utah Code Ann. §§ 11-36a-101, *et seq.*, (2008).

1.2.35 **Improved Open Space** means open space, including but not limited to that which has been improved with one or more of the following, as selected by the City Manager or his or her designee: first and foremost those amenities listed in the City's Park's Site Plan, churches, schools and associated lands, playgrounds, tennis courts, club houses, swimming pools, trail systems, trail heads, skate parks, volleyball courts, Public Gathering Areas or parks, sports fields, bathrooms, irrigated landscaping, associated paved parking for improved open space, pavilions, playgrounds, trailheads, drinking fountains, natural areas integrated with open spaces and park areas, or other improvements.

1.2.36 **Infrastructure Plan** means the conceptual infrastructure plan, including culinary water, secondary water, storm water, sanitary sewer and private roads, as amended from time to time.

1.2.37 **Intended Uses** means the use of all or portions of the Project for open spaces, parks, trails and other uses permitted in the Zoning Ordinance, Design Guidelines and as shown on the Site Plan.

1.2.38 **Site Plan** means the Site Plan attached as **Exhibit B**, which Site Plan is a conceptual/illustrative depiction of the presently anticipated development plan for the Property, which Site Plan may be modified from time-to-time by FINCH CREEK to respond to market, engineering and other development objectives.

1.2.39 **Modification Application** means an application to amend this Agreement (but not including those changes which may be made by Administrative Action).

1.2.40 **Mortgage** means (1) any mortgage or deed of trust or other instrument or transaction in which the Property, or a portion thereof or a direct or indirect ownership or other interest therein, or any improvements thereon, is conveyed or pledged as security, or (2) a sale and leaseback arrangement in which the Property, or a portion thereof, or any improvements thereon, is sold and leased back concurrently therewith.

1.2.41 **Mortgagee** means any holder of a lender's beneficial or security interest (or the owner and landlord in the case of any sale and leaseback arrangement) under a Mortgage.

1.2.42 **Intentionally omitted.**

1.2.43 **Non-City Agency** means a governmental or quasi-governmental entity, other than those of the City, which has jurisdiction over the approval of an aspect of the Project.

1.2.44 **North Fields** means that certain real property located generally west of the Property and generally depicted on **Exhibit C** attached hereto.

1.2.45 **Notice** means any notice to or from any Party to this Agreement that is either required or permitted to be given to another Party.

1.2.46 **Off-Site Infrastructure** means the off-site public or private infrastructure, such as roads and utilities, specified in the Infrastructure Plan that is necessary for development of the Property but is not located on the portion of the Property that is subject to a Development Application.

1.2.47 **On-Site Infrastructure** means the on-site public or private infrastructure, such as roads or utilities, specified in the Infrastructure Plan that is necessary for development of the Property and is located on that portion of the Property that is subject to a Development Application.

1.2.48 **On-Site Retention/Detention** shall mean a storm drain facility that is provided on-site upon private property within the development.

1.2.49 **Open Space** means the following: all parks (regardless of size or type); pedestrian, bicycle, and equestrian trails and pathways; passive open spaces, water features, and natural habitat areas; parkways and commonly maintained natural or landscaped areas; sidewalks, street tree plantings and medians; ballfields and recreational spaces (including, without limitation, any such facilities provided by or upon a school or church site, excepting areas within building footprints other than community gardens); drains and detention basins and swells, canals, protected slope areas, and any other quasi-public area that the City determines to be Open Space as a part of the approval of a Development Application. Open Space includes, but is not limited to, those areas identified as Open Space in the Site Plan.

1.2.50 **Outsourcing** means the process of the City contracting with City Consultants or paying overtime to City employees to provide technical support in the review and approval of the various aspects of a Development Application, as is more fully set out in this Agreement.

1.2.51 **Parcel** means an area identified on the Site Plan with a specific land use designation that is intended to be further subdivided for future development.

1.2.52 **Person** means any natural person, corporation, Limited Liability Company, trust, joint venture, association, company, partnership, limited partnership, governmental authority or other entity.

1.2.53 **Phase** means the development of a portion of the Project.

1.2.54 **Intentionally omitted.**

1.2.55 **Planning Commission** means the City's Planning Commission.

1.2.56 **Project** means the mixed-used Site Plan to be developed on the Property in accordance with this Agreement, including, without limitation, all associated public and private facilities, Intended Uses, Phases and all of the other aspects approved as part of this Agreement and the Site Plan.

1.2.57 **Intentionally omitted.**

1.2.58 **Property Owner or Property Owners** means FINCH CREEK and any other successor-in-interest to FINCH CREEK as an owner of the Property or any portion thereof, including but not limited to, Developers, Sub-developers and builders.

1.2.59 **Site Plan** means the conceptual plan submitted to the City for the first stage of the approval of a mixed use development in accordance with the City's Vested Laws.

1.2.60 **Sub-developer** means any Person that obtains title to a Parcel from a Developer for development.

1.2.61 **Subdivision** means the division of any portion of the Project into a subdivision pursuant to State Law and/or the Zoning Ordinance.

1.2.62 **System Improvement** means those elements of infrastructure that fall within the definition of System Improvements pursuant to Utah Code Ann. §11-36a-102(21). System Improvements shall be defined as set out in the North Village Capital Facilities Plans and Master Plans.

1.2.63 **Zone** means the City's North Village Overlay District Zone.

1.2.64 **Zoning Ordinance** means the City's Land Use and Development Ordinance adopted pursuant to the Act that is in effect as of the Effective Date.

2. **Development of the Project.** Development of the Project shall be in accordance with this Agreement, the City's Vested Laws and the City's Future Laws as expressly set forth in this Agreement. The Parties acknowledge and agree that if there is a conflict with this Agreement and the City's current or future laws, then this Agreement shall supersede and take precedence to the fullest extent possible.

3. **Development of the Property in Compliance with the Site Plan.**

3.1 **Project Density.** Except as may be otherwise augmented hereinafter, Property Owners shall be entitled to and are vested with the right to develop and construct up to 69.72 ERUs on the Property consistent with the Intended Uses specified in the Zoning Ordinance and generally identified on the Site Plan (collectively, the “**Base Density Entitlements**”). The Base Density Entitlements represent the base density allocation per gross acre allowed by the City’s Vested Laws and have been approved pursuant to the City’s review of the Site Plan in accordance with the requirements of the North Village Overlay District Zone. In addition to the Base Density Entitlements, Property Owners shall be entitled to and are vested with the right to develop and construct an additional 3.5 ERUs on the Property consistent with the Intended Uses specified in the Zoning Ordinance and generally identified on the Site Plan (collectively, the “**Bonus Density Entitlements**,” and together with the Base Density Entitlements, the “**Development Entitlements**”), which reflects a five percent (5%) increase in base density granted by reason of the Low Income Housing requirements imposed pursuant to this Agreement.

3.2 **Intended Uses by Parcel and Densities.** Intended Uses and Densities currently contemplated for each Parcel are shown on the Site Plan for the Property, which plan has been prepared in compliance with the requirements of the Heber City ordinances set forth in Chapter 17.20 Plans of the City’s Vested Laws. Uses on the property shall not include stacked flats unless approved by the City Council.

3.3 **Use of Density.** Notwithstanding the maximum gross density permitted under the Zone, FINCH CREEK may allocate the Development Entitlements among any Subdivision within the Project;

3.4 **Accounting for Density for Parcels Sold to Sub-developers.** In connection with the sale of any Parcel sold by FINCH CREEK to a Developer or Sub-developer, FINCH CREEK shall provide the City with a written document specifying the identity of the Person to whom the Parcel is sold, the allocation, if any, of any Development ERUs associated with such Parcel, and the Open Space requirements and/or obligations associated with such Parcel. In connection with the recordation of a Final Plat or other document of conveyance for any Parcel sold to a Developer or Sub-developer, FINCH CREEK shall provide the City Recorder with a development report (a “**Development Report**”) identifying the Parcel(s) sold, the Residential Development ERU and/or other type of use or Development Unit allocated with the Parcel(s), the Development ERU remaining with FINCH CREEK and any material effects of the sale on the Site Plan.

3.4.1 **Return of Unused Density.** If a Developer or Sub-developer cannot or does not utilize all of the Development ERU allocated to it in connection with the transfer of one or more Parcels at the time the Developer or Sub-developer receives approval for the final Development Application for such

transferred Parcel(s), the unused Development ERU shall automatically revert back to FINCH CREEK. Such Development ERU shall be accounted for in any subsequent Development Report that FINCH CREEK, or any of its successors in interest may be required to file with the City Recorder.

3.5 Parcel Sales. The City acknowledges that the precise location and details of the public improvements, lot layout and design and any other similar item regarding the development of a particular Parcel may not be known at the time of the sale of a Parcel.

3.6 Low Income Housing Requirements. For the purposes of this Agreement, Low Income or Affordable Housing shall maintain a selling price that is affordable for individuals or families with an income of less than 60% of the average median income (AMI) in Wasatch County, Utah. A minimum of 3.5 ERU's shall be deed restricted in perpetuity and sold or rented at an affordable rate to families earning no more than sixty percent (60%) of the average median income (60% AMI). FINCH CREEK shall reasonably disperse the Low Income Housing units throughout the Project. FINCH CREEK shall also be entitled to allocate any such Low Income Housing requirements to Developers and/or Sub developers as FINCH CREEK may elect. The Low Income Housing ERUs shall be developed on a proportional basis with the development. Developer and the City shall follow and comply with any deed restrictions as outlined in the Low Income Housing Ordinance & Plan. Payment of a fee in lieu to fulfill the requirements of the Low Income Housing Ordinance & Plan is not an option, unless specifically agreed to by the City. Fractions of required Low Income Housing ERUs may be implemented with the payment of a fee in lieu option.

3.6.1 Allocation of Low Income Housing. At least one half of the required affordable housing (ERUs) shall be sold to parties that shall be required to reside in the units as their primary residence, "Owner-Occupied", with a specific restriction not to allow said units to be rented. ERUs constructed as Low Income Housing in the Project shall be deed restricted and preserved in perpetuity for those income qualified at 60% or less of the Average Medium Income for Wasatch County, Utah.

3.6.2 Rights of First Offer. Heber City, or its designee, shall have the first right to purchase all affordable dwelling units (aka, AMI deed restricted properties, or affordable deed restricted units). In the event that Heber City does not exercise or execute on its said option to purchase, then FINCH CREEK, and its successors, shall grant or cause the applicable Developers and/or Sub-developers to grant to the following entities and their employees, in descending order of priority, a right to purchase Low Income Housing constructed and operated as affordable housing and available within the Project for sale to income qualifying households otherwise

meeting the requirements of this Agreement: the **City**, the Wasatch County School District (the “**District**”) and Wasatch County (the “**County**”). In the event the City, the District, and the County do not exercise their respective first rights, the applicable Low Income Housing Units may be sold, as the case may, be to members of the general public meeting the income qualification requirements, employed in Wasatch County and living or desiring to live in Wasatch County.

3.6.2.1 Deed Restrictions Protecting the Affordability and Sustainability of the Affordable Homes at FINCH CREEK MIXED USE DEVELOPMENT.

a. Prior to final approval for the Finch Creek Mixed Use Development, and, prior to transfer of ownership from Developer/ Owner of any Affordable Housing Units/ Homes, Developer/ Owner shall negotiate and enter into with the City a ***Deed Restrictions Covenant***, (*which shall be recorded with the Wasatch County Recorder*), that shall serve as a Covenant Running With the Land to protect the affordability and sustainability of the Affordable Units/homes at Finch Creek Mixed Use Development, Heber City, Wasatch County, Utah. Some of the terms of such a Covenant should include, but shall not be limited to the following:

1. The Covenant is to provide and articulate terms, conditions, and restrictions. The Covenant shall be enforceable by the City and, upon its execution and recording in the public records of the County Recorder of Wasatch County, Utah, shall run with the land, enforceable against the Owners; each Unit Owner, and each Unit Owner’s successors interest, assignees, heirs, devisees, mortgagees, lessees, trustees, beneficiaries, executors, administrators, personal representatives; any subsequent owners; and any other parties claiming an interest in the Property. In addition to the recording of this Covenant, Developer/Owner shall cause that any deed or plat map associated with any affordable housing properties or units shall reference said Covenant.

2. The City shall forever retain the right to purchase all Affordable housing units, in perpetuity, pursuant to such a Covenant running with the land and units.

3. Administration and Enforcement. The City shall have the right to enforce the terms of such a Covenant and may enforce its terms as it deems administratively proper through its employees, administrative offices, agents, or assigns. The Heber City Police Department shall be authorized to investigate certain affordable housing violations and to issue citations pursuant to

applicable City Code and State Statute. The City may enforce this Covenant by any appropriate legal or equitable action including but not limited to specific performance, injunction, abatement, damages and such other remedies and penalties as may be specified in this Covenant. This Covenant shall inure to the benefit of the City and nothing herein shall be construed as creating a general scheme to be enforced by Unit Owners against each other.

4. At least 50% of the required affordable ERUs shall be Owner-Occupied unless a Unit Owner shall receive prior written consent of the City, in its sole and absolute discretion, for an exception. Each of these Unit Owners shall occupy the Unit as a Primary Residence. Unless the City gives its prior written consent, each Unit Owner shall not obtain, purchase, or otherwise acquire any other direct or indirect interest in real property while the Unit owner is a Unit Owner; neither the Unit Owner nor any person in the Unit Owner's Household shall establish a trust of which the Unit Owner is a beneficiary if such trust's corpus contains any other real property.

5. Resale of Unit. The Unit Owner shall send Notice to the City of such Unit Owner's intent to sell the unit (the date of such Unit Owner's Notice to the City shall be the "Offer Date") and shall not Sell any interest in such Unit without written consent of the City.

3.6.3 Off-site Low Income Housing. At the discretion of the developer, some or all of the affordable housing requirements may be met in partnership with the City to allow construction and location of affordable housing units off site on any available property whether owned by the City, third parties or other entities. The exact details of such an arrangement, if presented by the City and discretionally negotiated by developer, would be negotiated with the City at the time of development, if possible, and if the City has the property available at that time. It is the intent that such option would not reduce the developer's requirements below that required in this MDA.

3.6.4 Timing. At least 50% of the required Low Income Housing units shall be constructed no later than the construction of the first 30 percent of the Market Rate units. The full Low Income Housing requirement shall be completed no later than construction of the first 60 percent of the Market Rate units.

3.6.5 Non-Residential Development Timing. Any commercial areas shown upon the Master Plan for the development shall be rough graded and

provided with access to adequate utilities to serve the land uses no later than the construction of 60 percent of the residential units within the development.

4. **Zoning and Vested Rights.**

4.1 **Compliance with City Requirements and Standards.** Developer and Owners expressly acknowledge that nothing in this Agreement shall be deemed to relieve Developer or any Continuing or Successor Owner from its obligations to comply with all applicable requirements of the City necessary for approval and recordation of subdivision plats and site plans for the Project, which are in place at the time of a complete and approved application, including the payment of unpaid fees, the approval of subdivision plats and site plans, the approval of building permits and construction permits, and compliance with all applicable ordinances, resolutions, policies and procedures of the City except as otherwise provided in this Agreement. Specifically, Developer and Owner acknowledge and agree that in the event adherence to the City Updated North Village Storm Water and the North Village Street Master Plans, may or actually does affect or compromise entitlements, Developer and Owner shall not be allowed to claim damages, takings or costs from or against the City.

4.2 **Current Zoning.** Concurrently with its execution of this Agreement, the City has annexed the Project to the City and zoned the Property under the North Village Overlay District Zone. The North Village Overlay District Zone (Section 18.21.010 and Section 18.21.060 of the Heber City Code) was approved by the Council on March 16, 2021.

4.3 **Term of Agreement.** The term of this Agreement shall commence on the Effective Date and continue either for a period of ten (10) years, or the day upon which the final certificate of occupancy is approved and granted, whichever first occurs, (the “**Term**”), unless it is terminated in accordance with Section 26. The Term may, at FINCH CREEK’s option, be extended for one (1) additional five (5) year period, provided FINCH CREEK is not in material default of any provisions of this Agreement and after providing the City with written notice not less than six (6) months prior to the scheduled expiration date. Unless otherwise agreed between the Parties, FINCH CREEK’s vested rights and interests set forth in the Agreement shall expire at the end of the Term, or as the Term may be extended by mutual agreement of the Parties. Upon termination of this Agreement for any reason, the obligations of the Parties to each other created under this Agreement shall terminate, but none of the licenses, building permits, or certificates of occupancy granted prior to the expiration of the Term or termination of this Agreement shall

be rescinded or limited in any manner, nor will any rights or obligations of Property Owners or the City intended to run with the land be terminated.

5. **Approval Processes for Development Applications.**

5.1 **Phasing.** The City acknowledges that FINCH CREEK, Developers, and Sub-developers who have purchased Parcels of the Property may submit multiple applications from time to time to develop and/or construct portions of the Project in phases.

6. **Open Space, Improved Public Parks, and Trails Requirements.**

6.1 **Development Timing: Open Space, Neighborhood Parks, and Trails.** Neighborhood Parks and Trails shall be constructed and developed concurrently with the respective development within which said trails are located. The City shall not be obligated to make final approval and place into warranty any public improvements located within or constructed in conjunction with the development of a particular Phase until the parks and trails located within such Phase have been constructed, or the City has received an improvement completion assurance in the form of either a cash escrow deposit, a letter of credit or such other form of completion assurance as may then be accepted by the City with respect to such parks and trails meeting the requirements of Section 10-9a-604.5 of the Utah Municipal Land Use Development Management Act. Open space, parks and trails shall comply with the requirements of the NVOZ.

6.2 **Dedication of Open Space or Trails.** Property within the canal easements shall be granted and dedicated by the Property Owner to the City, or other public entity as determined by the City. Dedication of Trails to the City shall be by plat recordation or by dedication by deed from the applicable Property Owner which shall be without any financial encumbrance or other encumbrance (including easements) which unreasonably interferes with the use of the property for Open Space and/or Trails; In the event trails are established solely for the internal use by Homeowners' Association, no public easement shall be granted by FINCH CREEK or any other Property Owner. Construction and dedication of the Highway 40 trail shall occur within the first phase of development.

6.3 **Maintenance of Open Space/or Trails.** Except as otherwise specifically provided in this Agreement, upon acceptance by the City of Trails and after formal possession, the City shall be responsible for maintaining the Public Trail after final inspection and acceptance of the applicable improvements included therein, if any. If the Trails are dedicated to an entity other than the City, the dedication shall provide for the maintenance of the applicable Trails. Unless approved by, and dedicated to the City, any associated landscaping with such Trails shall be maintained by the respective property owners association.

6.4 **Tax Benefits.** The City acknowledges that Property Owners may seek to qualify for certain tax benefits by reason of conveying, dedicating, gifting, granting or transferring Open Space and/or Trails to the City or to a charitable organization. Property Owners shall have the sole responsibility to claim and qualify for any tax benefits sought by Property Owners by reason of the foregoing. The City shall reasonably cooperate with Property Owners to the maximum extent allowable under law to allow Property Owners to take advantage of any such tax benefits.

6.5 **North Fields Preservation.** FINCH CREEK, for itself and with respect to each subsequent Owner of the Property, agrees that upon issuance of a building permit for a Development Unit, the Owner of such Development Unit shall pay to the City a fee equal to \$2,500 per ERU or partial ERU attributable to such Development Unit (the “**North Fields Preservation Fee**”). The City shall utilize funds collected pursuant to the North Fields Preservation Fee solely for the purpose of preserving open space in the North Fields, including purchase of development rights. The City agrees that the North Fields Preservation Fee shall not be charged for Development Units constructed and operated as Low Income Housing Units.

7. **Public Improvements.**

7.1 **Utilities and On-Site Infrastructure.** The City acknowledges that FINCH CREEK will prepare an Infrastructure Plan (a/k/a Civil Drawings). The Parties acknowledge that there will be a Capital Facilities Plan for the Public Infrastructure approved and adopted by the City. The Property Owners shall have the responsibility and obligation, to construct and fund, or cause to be constructed and installed, in phases, the On-Site and Off-Site Infrastructure according to the Capital Facilities Plan that is necessary to support the development proposed within a specific Development Application. If any Property Owners elect to construct any On-Site Infrastructure or Off-Site Infrastructure required by the Capital Facilities Plan as a condition of approval of a Development Application, the Property Owner shall pay the cost thereof, subject to its reimbursement rights set forth in Section 7.2. The City shall comply with the statutory processes and all other applicable laws, rules, and regulations governing such work. Parties contemplate that each Phase will be served by sanitary sewer, culinary water and secondary irrigation systems provided by others.

7.2 **Excess Improvements/Upsizing.** Any infrastructure requested by the Developer or required by the Development shall be the responsibility of the Developer. The City and FINCH CREEK acknowledge and agree that, as a part of the Capital Facilities Plan, certain portions of the infrastructure improvements shown on the Capital Facilities Plan (including both On and Off-site Infrastructure) may need to be enlarged, increased or otherwise “upsized” or upgraded (collectively, the “**Excess Improvements**”) at the request of the City or other responsible Non-City Agency to serve, directly or indirectly, developments or

future developments on land areas outside of the Project's boundaries or owned by parties other than Property Owners (collectively, the "**Benefitted Property**"). In recognition of the foregoing, and as a material inducement to the execution of this Agreement by FINCH CREEK:

7.2.1 **Reimbursements.** The City agrees that it shall reimburse the applicable Property Owners for, or to the extent permissible under then-applicable law and as identified in the approved Capital Facilities Plan, costs incurred by the applicable Property Owners in the construction of Excess Improvements. Subject to the City's approval, Property Owners may, from time to time, oversize and/or install and construct portions of the infrastructure specified in the Infrastructure Plan that are System Improvements. The City shall ensure that Property Owners, as applicable, are reimbursed for actual costs from Impact Fees for oversizing. City shall also make available reimbursement/pioneering agreements to reimburse Property owners-for installing Off-site System Improvements to serve their property as required by State law. Said pioneering agreements shall have a maximum duration of 10 years from the date of City's acceptance of associated improvements.

7.2.2 **Building Fee and Impact Fee Credits.** To the extent that any reimbursements paid to a Property Owner pursuant to the Reimbursement Procedures do not fully reimburse Property Owners for the amounts expended or costs incurred by the Property Owner in the construction of the Excess Improvements, City shall credit the applicable Property Owner up to the value of such deficiency against the Impact Fees applicable to the Project.

7.2.3 **Backbone Improvements.** Property Owners shall not be compensated for any "upsizing" of the Backbone Improvements that are not included as System Improvements in the approved Capital Facilities Plan.

7.2.4 **Phasing of Master Planned Facilities.** Public Facilities shown on the City's Capital Facilities Plan shall be constructed within the first phase of development.

7.3 **Secondary Access.** Subject to approval of the City and Wasatch County Fire Service District, FINCH CREEK shall cause one of the proposed Secondary Access Roads to be completed in connection with the first phase of the Project. If approved, said Secondary Access Road shall satisfy the requirements of the City and the Wasatch County Fire Service District with respect to adequate ingress and egress for the Project.

7.4 Variations between Infrastructure Plan, Capital Facilities Plan and any City's Future Capital Facilities Plan. The Parties acknowledge that the City may adopt a new or amended Capital Facilities Plan. Additionally, the City may adopt new or amended Impact Fee ordinances as permitted by State Law for the collection of Impact Fees to pay for the construction of parts or all of the Backbone Improvements. The new Capital Facilities Plan shall in no way change any land uses or permitted uses of the Project; limit or control the rate, timing, phasing or sequencing of the approval, development or construction of all or any part of the Project in any manner so long as all applicable requirements of this Agreement and relevant sections of the Zoning Ordinance are satisfied. The Capital Facilities Plan and any future Capital Facilities Plan may differ from the Infrastructure Plan. As a part of the approval of a Development Application, the City may require Property Owners to build portions of the Backbone Improvements as shown on the Capital Facilities Plan (after it is adopted) instead of as shown on the Infrastructure Plan. If the Parties cannot reach agreement on the terms of a reimbursement agreement, the terms of such a reimbursement agreement shall be subject to the mediation and arbitration provisions of Section 14. Notwithstanding the above, nothing herein obligates the City to pay for the minimum backbone infrastructure needed for the Project.

7.5 No Additional Off-Site Infrastructure Requirements. Notwithstanding anything to the contrary in the City's Vested Laws, the City shall not, directly or indirectly, charge Developers or Sub-developers, or any of their respective affiliates or successors, any development fees, impact fees, water hookup fees, or any similar fees, charges, assessments or exactions for Off-Site Infrastructure not contemplated in the Capital Facilities Plan, or subsequent updates to said Plan. However, any and all such development fees, impact fees, water hookup fees, or any similar fees, charges, assessments or exactions for On-Site Infrastructure, shall be borne by Developers and Sub-developers, or any of their respective affiliates or successors, or residents, regardless of whether they are off-site or on-site, pursuant to the Capital Facilities Plan. In the event that Developer or Sub-developer is required to build Off-Site Infrastructure, and subject to the aforementioned 10 year limited duration, in the event pioneering agreements are used, the City would collect a pro-rata share from future, benefitting developers.

7.6. Modifications of Infrastructure Locations and the Boundaries of the Development Areas. The City acknowledges that the exact locations of On and Off-Site Infrastructure and the boundaries of the Parcels are conceptual in nature and that additional surveying, engineering and similar studies are needed to finalize lot locations, road and utility alignments as well as road and utility sizing. Therefore, Parcel boundaries, road and utility alignments and, subject to the requirements of this Agreement, infrastructure sizing may be further modified and revised upon the City's approval of subsequent Development Applications in accordance with subsequent subarea infrastructure Site Plans that will be prepared

by Developer for each Phase, and the City's Vested Laws, all subject to City final approval.

7.7 Utilities Provided by the North Village Special Service District (NVSSD) and the Jordanelle Special Service District (JSSD). The Parties acknowledge that the Project is currently served by the NVSSD and the JSSD for sewer and water, including secondary water. It is the intent by both Parties that the NVSSD and the JSSD shall continue to serve the project for these utilities through such service districts as long as they have capacity and are capable of serving. The Developer shall provide Commitment Letters from JSSD and NVSSD for the plat and/or phase being served before final approval for that particular plat is granted. Water for phases and all amenities shall be dedicated up front. If at any time it is deemed unfeasible to have JSSD or NVSSD serve the Project, the Developer shall secure other service providers. The City shall not be liable or responsible to provide such services.

7.8. Water Rights. Developers shall be required to comply with the JSSD and NVSSD water policies generally applicable to all NVSSD customers.

7.9. Streets. Street frontage shall be improved in compliance with the City's Standards and Specifications and the NVOZ.

Development shall obtain UDOT access approval for any accesses onto a state highway.

Development shall comply with the Highway 40 Access Management Agreement.

At the time of development, a transportation hub (area with a bus stop bench and bus turnout), will provided to the satisfaction of the City Engineer within each development, at a location that is central to the transportation network and convenient for access to the center of density within the development.

7.10 Off-Site Connectivity. All trails, canals, ditches and roads shall connect with existing and internal trails, canals, ditches and roads located immediately adjacent to the Project such that there is consistent, smooth linkage and connectivity with any and all municipal systems.

8. Cable/Fiber Optic Service. Subject to all applicable federal and state laws, as well as the City's authorization and capacity to timely install in a reasonable manner all required infrastructure and provide such service, FINCH CREEK agrees that the City shall be the sole cable/fiber optic network provider for the Development. The City shall install or cause to be installed all underground conduits necessary to make available a minimum of one cable service/fiber optic communication provider, or other comparable information and communication service provider, within the Project. FINCH CREEK shall cooperate and reasonably accommodate the City's installation and development of said cable service/fiber optic network, (CFON).

Notwithstanding the foregoing, Property Owners may contract with any cable TV/fiber optic and other communication provider of their own choice and grant an exclusive right of access and/or easement to such provider to furnish cable TV/fiber optic and other communication services for those dwelling units or other uses on such Property Owner's real property so long as the property is private and not dedicated to the public. The City may charge and collect all taxes and fees with respect to cable, fiber optic and other communication lines as allowed under an applicable City ordinance or state law.

9. **CC&Rs.** As more fully set forth in the CC&Rs, Property Owners shall create and establish one or more Property Owners' Associations, which shall be responsible for the implementation and enforcement of the CC&Rs and the Design Guidelines, including but not limited to architectural reviews, water efficiency, wildfire education, open space, and private street and storm water system maintenance. Recordation of the CC&Rs and creation of such Property Owners' Associations shall be required at the time of Final Plat review and approval. They shall be recorded both with the County and City Recorders. The City shall not be responsible for the implementation and/or enforcement of any such CC&Rs and Design Guidelines. The CC&Rs may be amended by the processes specified in the CC&Rs without any requirement of approval of such amendments by the City. If any provision of the Design Guidelines is inconsistent with a specific provision of this Agreement, the terms of this Agreement shall govern. Prior to the issuance of any building permits for residential, business, commercial or recreational use, but excluding On or Off-Site Infrastructure or other infrastructure proposed by Property Owners, the architectural control committee established by the CC&Rs shall certify that the proposed Development Application complies with the Design Guidelines. To facilitate uniform application and enforcement of the Design Guidelines, the Design Guidelines shall incorporate the design standards set forth in the Zone. Potential avenues of enforcement of the applicable CC&Rs available to the applicable Property Owners' Association or Owners shall include judicial enforcement by a court having subject matter jurisdiction over the particular dispute.

10. **Fees & Bonding.**

10.1 **General Requirement of Payment of Fees.** The City acknowledges its fees are subject to applicable State law. The City's impact fee requirements will be set forth in the City's approved Capital Facilities Plan for the Project area to be developed subsequent to this Agreement and incorporated herein.

10.2 **Warranty Bonding.** To the extent other public financing vehicles are not available for any on or off-site, publicly dedicated infrastructure or similar improvements for the Project, Property Owners, Developers or Sub-developers, as applicable, shall provide performance or warranty bonds, per the Heber City Code, in the form of letters of credit or cash bonds (all forms approved by the City) in relation to any on or off-site, publicly dedicated infrastructure or similar improvements for the Project (the "**Security**"), including, without limitation, roads, curb and gutter, storm drains, sewer, water, street lighting, signs, sidewalks, landscaping within public rights of way, public open space, public parks and trails.

Notwithstanding anything to the contrary under the City's Vested Laws, Property Owners shall not be required to post any such security for any privately-owned infrastructure or improvements, not necessary for public health and safety. The Security required under this section shall otherwise conform to the requirements of State Law.

11. **Construction Standards and Requirements.**

11.1 **Building Permits.** No buildings or other structures that require permits, shall be constructed within the Project without the Developer or Sub-developer first obtaining building permits in accordance with the City's Vested Laws. Developers and Sub-developers may apply for and obtain a grading permit following Preliminary Site Plan approval if the Developers or Sub-developers, as applicable, have submitted and received approval of a site-grading plan and SWPPP and subject to a Land Disturbance Permit issued pursuant to Section 12 below.

11.2 **City and Other Governmental Agency Permits.** Before commencement of construction or development of any buildings, structures or other work or improvements upon any portion of the Project, a Developer or Sub-developer shall, at their expense, secure, or cause to be secured, any and all permits which may be required by the City under the City's Vested Laws or any other governmental entity having jurisdiction over the work. The City shall reasonably cooperate with Developers Sub-developers in seeking to secure such permits from other governmental entities.

11.3 **Limitation to Three Stories.** No structure in the Project shall exceed three (3) stories in height unless approved by the City Council.

12. **Grading, On-Site Processing of Natural Materials; Storm Water Management.**

12.1 **Intentionally Omitted.**

12.2 **On-Site Processing of Natural Materials.** Property Owners may use the natural materials located on the Project, including, without limitation, sand, gravel and rock, and may process such natural materials into construction materials, including, without limitation, aggregate or topsoil, for use in the construction of On and Off-Site Infrastructure, commercial buildings, residential structures, or other buildings or improvements located in the Project and other locations outside the Project. Property Owner shall remediate any damage to trails, infrastructure, drainage or natural water features caused by such use. Notwithstanding this provision, this does not permit the construction of any subdivision or site-specific improvements prior to the requisite Final Plat review and approval for such improvements. Any such uses shall not be considered gravel pits.

12.3 **Storm Water Management.** The Parties acknowledge that the City is presently contemplating a future regional storm water master plan (as finalized and adopted by the City, the “**City Updated North Village Stormwater Master Plan**”). Concurrent with Provision 4.1 above, FINCH CREEK shall be required to comply with all future policies and standards of the North Village Stormwater Master Plan and associated Stormwater Design Manual, yet to be adopted, and all standards and requirements of any and all exhibits attached and incorporated into this Agreement, including but not limited to the Engineering Review Letter.

12.3.1 As a condition of annexation, as outlined in the **City Updated North Village Storm water Master Plan**, Developer and Property Owner shall restore or replace the historic, natural drainage channels downstream of the existing irrigation canals, as outlined and contemplated in the above referenced Master Plan.

12.4 **Intentionally Omitted.**

12.5. **Future Transportation Plan.** The Parties acknowledge that the City is presently contemplating a future Updated North Village Transportation Plan (as finalized and adopted by the City, the (when finalized and adopted by the City, the “**City Updated North Village Transportation Plan**”). Concurrent with Provision 4.1 above, FINCH CREEK shall be required to comply with all future policies and standards of the North Village Transportation Plan, yet to be adopted, and all standards and requirements of any and all exhibits attached and incorporated into this Agreement, including but not limited to the Engineering Review Letter.

13. **Provision of Municipal Services.** The City shall provide all City services to the Project that it provides from time to time to other residents and properties within the City including, but not limited to, development services and inspections, road and streetlight maintenance on public streets, police, and other emergency services. Such services shall be provided to the Project at the same levels of service, and on the same terms and rates as provided to other residents and properties in the City, unless such services are provided by other entities, or, because of the unique topography, location or other special or unique circumstances in the area covered by this Agreement, the cost to provide such services is higher than the like property rate throughout the City, and the City is able to demonstrate by empirical evidence, that such costs are a result of substantive additional or increased costs of municipal services, or financial burden to the City, then such additional costs, including but not limited to those required for additional special fire or police services, may be passed on to the Property Owners by way of special municipal service zonal fees, or some other equivalent of such fees. The City may charge such increased rate fees to Property Owners with respect to the Project, Phase, or sections of a Phase proportionate to their share of the increased cost.

14. **Default.** Any failure by any party to perform any term or provision of this

Agreement, which failure continues uncured for a period of thirty (30) days following the receipt of written notice of such failure from the other party (unless such period is extended by mutual written consent, and subject to Sections 14.2 through 14.4), shall constitute a “**Default**” under this Agreement. Any notice given pursuant to the preceding sentence (“**Asserted Default Notice**”) shall comply with Section 14.1.

14.1. **Notice.** If a Property Owner or the City causes an event which remains uncured for a period of thirty (30) days, this would constitute a Default of this Agreement. The Party claiming a Default shall provide a written Asserted Default Notice to the other Party.

14.1.1. **Contents of the Asserted Default Notice.** The Asserted Default Notice shall:

14.1.1.1 **Claim of Default.** Specify the claimed event of Default;

14.1.1.2. **Identification of Provisions.** Identify with particularity the provisions of any applicable law, rule, regulation or provision of this Agreement that is claimed to be in Default;

14.1.1.3. **Specify Materiality.** Identify why the claimed Default is claimed to be material; and

14.1.1.4. **Proposed Cure.** Specify the manner in which said failure may be satisfactorily cured.

14.2. **Cure.** Following receipt of an Asserted Default Notice, the defaulting Party shall have sixty (60) days in which to cure such claimed Default (the “Cure Period”). If more than 60 days is required for such cure, the defaulting Party shall have such additional time as is reasonably necessary under the circumstances in which to cure such Default so long as the defaulting Party commences such cure within the Cure Period and pursues such cure with reasonable diligence.

14.3. **Meet and Confer, Mediation, Arbitration.** Upon the failure of a defaulting Party to cure a Default within the Cure Period or in the event the defaulting Party contests that a Default has occurred, before initiating any formal litigation proceedings the Parties shall first engage in Mediation.

14.4. **Remedies.** If the Parties are not able to resolve the Default by Mediation, the Parties shall have the following remedies:

14.4.1. **Legal Remedies.** Legal Remedies available to both Parties shall include all rights and remedies available at law and in equity, including, but not limited to, injunctive relief, specific performance and/or damages. In

addition to any other rights or remedies, any Party may institute legal action to cure, correct or remedy any default, to specifically enforce any covenant or agreement herein, or to enjoin any threatened or attempted violation. Nothing in this section is intended to, nor does it limit Developer's or City's right to such legal and equitable remedies as permitted by law. It is specifically acknowledged by both Parties that neither Party waives any such rights for legal and equitable remedies.

14.4.2. **Enforcement of Security.** The right to draw on any security posted or provided in connection with the Project and relating to remedying of the particular Default.

14.4.3. **Withholding Further Development Approvals.** The right to withhold all further reviews, approvals, licenses, building permits and/or other permits for development of that portion of the Property owned by the defaulting Property Owner.

14.5. **Public Meeting.** For any Default by a Property Owner, before any remedy in Section 14.4.1 may be imposed by the City, Property Owners shall be afforded the right to attend a public meeting before the Council and to address the Council regarding the claimed Default.

14.6. **Emergency Defaults.** Anything in this Agreement notwithstanding, if the Council finds on the record in a public meeting that a Default by Property Owners materially impairs a compelling, countervailing interest of the City and that any delays in imposing a remedy to such a Default would also impair a compelling, countervailing interest of the City, the City may impose the remedies of Section 14.4., without any further requirements or obligations to the Property Owners. The City shall give Notice to Property Owners in accordance with the City's Vested Laws of any public meeting at which an emergency Default is to be considered and Property Owners shall be allowed to attend such meeting and address the Council regarding the claimed emergency Default.

14.7. **Cumulative Rights.** The rights and remedies set forth herein shall be cumulative.

15. **Notices.** All notices required or permitted under this Amended Development Agreement shall, in addition to any other means of transmission, be given in writing by certified mail and regular mail to the following address:

To the Property Owners:

Finch Creek, LLC
Attn: James Stout

1113 S. 500 W.
Bountiful, UT 84010

To the City:

City of Heber
Attn: City Recorder
25 North Main Street
Heber, Utah 84032

15.1 Effectiveness of Notice. Except as otherwise provided in this Agreement, each Notice shall be effective and shall be deemed delivered on the earlier of:

15.1.1 Physical Delivery. Its actual receipt, if delivered personally, by courier service, or by facsimile, provided that a copy of the facsimile Notice is mailed or personally delivered as set forth herein on the same day and the sending Party has confirmation of transmission receipt of the Notice.

15.1.2 Electronic Delivery. Its actual receipt if delivered electronically by email, provided that a copy of the email is printed out in physical form and mailed or personally delivered as set forth herein on the same day and the sending Party has an electronic receipt of the delivery of the Notice.

15.1.3 Mail Delivery. On the day the Notice is postmarked for mailing, postage prepaid, by First Class or Certified United States Mail and actually deposited in or delivered to the United States Mail.

15.1.4 Change of Notice Address. Any Party may change its address for Notice under this Agreement by giving written Notice to the other Party in accordance with the provisions of this Section.

16. Administrative Amendments.

16.1 Allowable Administrative Applications: The following modifications to this Agreement may be considered and approved by the Administrator.

16.1.1 Infrastructure. Modification of the location and/or sizing of the infrastructure for the Project that does not materially change the functionality of the infrastructure.

16.1.2 Design Guidelines. Modifications of the Design Guidelines.

16.1.3 Development Unit Allocations. Any allocation of Development Unit densities to be made by FINCH CREEK or its successors.

16.1.4 **Minor Amendment.** Any other modifications deemed to be minor modifications by the Administrator.

16.2 **Application to Administrator.** Applications for Administrative Amendments shall be filed with the Administrator.

16.2.1 **Referral by Administrator.** If the Administrator determines for any reason that it would be inappropriate for the Administrator to determine any Administrative Amendment, the Administrator may require the Administrative Amendment to be processed as a Modification Application.

16.2.2 **Administrator's Review of Administrative Amendment.** The Administrator shall consider and decide upon the Administrative Amendment within a reasonable time not to exceed forty-five (45) days from the date of submission of a complete application for an Administrative Amendment. Applicant must provide all documents in their completed form and pay any required fee in accordance with State law.

16.2.3 **Notification Regarding Application and Administrator's Approval.** Within ten (10) days of receiving a complete application for an Administrative Amendment, the Administrator shall notify the Council in writing. Unless the Administrator receives a notice pursuant to these Sections, requiring that the proposed Administrative Amendment be considered by the Council as a Modification Application, the Administrator shall review the application for an Administrative Amendment and approve or deny the same within the 45-day period set forth in Section 16.2.2. If the Administrator approves the Administrative Amendment, the Administrator shall notify the Council in writing of the proposed approval and such approval of the Administrative Amendment by the Administrator shall be conclusively deemed binding on the City. A notice of such approval shall be recorded against the applicable portion of the Property in the official City records.

16.2.4 **City Council Requirement of Modification Application Processing.** If the Council requires the proposed Administrative Amendment to be considered by the Council as a Modification Application, it shall, within two (2) business days after the first Council meeting following notification by the Administrator pursuant to Section 16.2.3 above, notify the Administrator that the Administrative Amendment must be processed as a Modification Application, and that the Council shall be the final determining body for any and all Modification Applications.

16.2.5 **Appeal of Administrator's Denial of Administrative Amendment.** If the Administrator denies any proposed Administrative Amendment, the Applicant may process the proposed Administrative

Amendment to the Council for final adjudication. The Council shall be the final determining body for any and all Modification Applications.

17. **Amendment.** Except for Administrative Amendments, any future amendments to this Agreement shall be considered as Modification Applications subject to the following processes:

17.1 **Submissions of Modification Applications.** Only the City or FINCH CREEK or an assignee of FINCH CREEK, approved in writing by the City, and one that succeeds to all of the rights and obligations of FINCH CREEK under this Agreement may submit a Modification Application.

17.2 **Modification Application Contents.** Modification Applications shall:

17.2.1 **Identification of Property.** Identify the property or properties affected by the Modification Application.

17.2.2 **Description of Effect.** Describe the effect of the Modification Application on the affected portions of the Project.

17.2.3 **Identification of Non-City Agencies.** Identify any Non-City agencies potentially having jurisdiction over the Modification Application.

17.2.4 **Map.** Provide a map of any affected property and all property within three hundred feet (300') showing the present or Intended Use and density of all such properties.

17.2.5 **Fee.** Modification Applications shall be accompanied by a fee in an amount reasonably estimated by the City to cover the costs of processing the Modification Application.

17.3. **Mutual Cooperation in Processing Modification Applications.** Both the City and Applicants shall cooperate reasonably in promptly and fairly processing Modification Applications.

17.4 **Planning Commission Review of Modification Applications.**

17.4.1 **Review.** All aspects of a Modification Application required by law to be reviewed by the Planning Commission shall be considered by the Planning Commission as soon as reasonably possible in accordance with the City's Vested Laws in light of the nature and/or complexity of the Modification Application. The City shall not be required to begin its review of any application unless and until the Applicant has submitted a complete application.

17.4.2 **Recommendation.** The Planning Commission's vote on the Modification Application shall be only a recommendation.

17.5 **Council Review of Modification Application.** After the Planning Commission, if required by law, has made or been deemed to have made its recommendation of the Modification Application, the Council shall consider the Modification Application.

17.6 **Council's Objections to Modification Applications.** If the Council objects to the Modification Application, the Council shall provide a written determination advising the Applicant of the reasons for denial, including specifying the reasons the City believes that the Modification Application is not consistent with the intent of this Agreement and/or the City's Vested Laws (or, only to the extent permissible under this Agreement, the City's Future Laws).

17.7 **Mediation of Council's Objections to Modification Applications.** If the Council and Property Owners are unable to resolve a dispute regarding a Modification Application, the Parties shall attempt within seven (7) days to appoint a mutually acceptable expert in land planning or such other discipline as may be appropriate. If the Parties are unable to agree on a single acceptable mediator, each shall, within seven (7) days, appoint its own individual appropriate expert. These two experts shall, between them, choose the single mediator. Property Owners shall pay the fees of the chosen mediator. The chosen mediator shall within fourteen (14) days, review the positions of the parties regarding the mediation issue and promptly attempt to mediate the issue between the parties.

17.8 **Amendments by FINCH CREEK.** Notwithstanding any other provision in this Agreement to the contrary, FINCH CREEK may propose and if approved by the City, execute any amendment or other modification of this Agreement or the Site Plan, without the consent of any Property Owner provided that such amendments, modifications, land uses and density allocations: (a) are consistent with the requirements of the City's Vested Laws; and (b) shall not alter the ERU density allocated to such Property Owner identified in a duly executed Development Report or assignment from FINCH CREEK or otherwise affect any development rights associated with such Property Owner's Development Property set forth in a property specific development agreement with the City pertaining to such Development Property or a recorded Subdivision Plat specific to such Development Property and no other portion of the Project. For avoidance of doubt, neither the City nor FINCH CREEK shall be required to obtain the consent of any Property Owner or any subsequent owner of a portion of the Project in order to amend this Agreement pursuant to this Section 17.

18. **Estoppel Certificate.** Upon twenty (20) days prior written request by a Property

Owner, the City will execute an estoppel certificate to any third party certifying that this Agreement has not been amended or altered (except as described in the certificate) and remains in full force and effect, and that such Property Owner is not in default of the terms of this Agreement (except as described in the certificate), and such other matters as may be reasonably requested by the Property Owner. The City acknowledges that a certificate hereunder may be relied upon by transferees and mortgagees.

19. **Attorney Fees and Costs.** Subject to the Default provisions of Section 14 above, any and all disputes arising out of or related to the terms and conditions of this Agreement, including the interpretation and validity of the terms herein and the respective rights and obligations of the parties, shall first be negotiated informally in good faith between the parties. If such informal negotiations do not resolve the dispute, the parties shall participate, in good faith, in mediation. If mediation is unsuccessful, then either party may pursue whatever legal remedies may be available, at law or equity, before a court of competent jurisdiction, the losing party to the controversy shall pay to the successful party any and all costs and expenses, including reasonable attorney's fees, investigating such actions, taking depositions and discovery, and all other necessary costs incurred in, arising out of or resulting from such default (including any incurred in connection with any appeal or in bankruptcy court) incurred by such party and, in addition, such costs and expenses as are incurred in enforcing this Agreement.

20. **Entire Agreement.** Unless expressly provided herein, nothing in this Agreement shall be interpreted to conflict with, replace or waive any requirements, obligations, standards, duties, rights and enforcements afforded to the Parties, provided by and through the NVOZ Zone and Ordinance, and shall be interpreted and presumed by the Parties to be consistent, in harmony with, and incorporated herein with this Agreement. This Agreement and all Exhibits hereto, is the entire agreement between the Parties and may not be amended or modified except either as provided herein or by a subsequent written amendment signed by all Parties.

21. **Headings.** The captions used in this Agreement are for convenience only and a not intended to be substantive provisions or evidences of intent.

22. **No Third-Party Rights/No Joint Venture.** This Agreement does not create a joint venture relationship, partnership or agency relationship between the City and Property Owner. Further, the Parties do not intend this Agreement to create any third-party beneficiary rights. The Parties acknowledge that this Agreement refers to a private development and that the City has no interest in, responsibility for or duty to any third parties, including but not limited to JSSD or NVSSD, concerning any improvements to the Property unless the City has accepted the dedication of such improvements at which time all rights and responsibilities for the dedicated public improvement shall be the City's.

23. **Assignability.**

23.1 **Transfer to Developers and Sub-developers.** Notwithstanding anything to the contrary in this Agreement, FINCH CREEK or its successor may sell any

portion of the Property to one or more Developers and/or Sub-developers at any time from and after the Effective Date. Each such transferred portion of the Property (each, a “**Development Property**”) shall be developed by the Developer and/or Sub-developer in accordance with and subject to the terms hereof, including, without limitation, the following:

23.1.1 Developer or Sub-developer shall assume in writing for the benefit of the City and Property Owners all of the obligations and liabilities of Property Owners hereunder with respect to the Development Property;

23.1.2 Developer and Sub-developer shall be afforded the rights of Property Owners granted hereunder in respect of the applicable Development Property only, including, without limitation, any rights of Property Owners in and the impact fee credits and/or reimbursements pertaining to such Development Property; provided, however, that unless FINCH CREEK otherwise agrees in writing, Developer and/or Sub-developer shall not, in each case without the prior written consent of FINCH CREEK, which may be granted or withheld in FINCH CREEK’s sole discretion:

(ii) submit any design guidelines to the City in respect to the Development Property and/or propose any amendments, modifications or other alterations to the Design Guidelines or any other design guidelines previously submitted by FINCH CREEK Owners to the City in respect of the Development Property;

(iii) process any Final Plats, site plans or Development Applications for the Development Property and/or propose any amendments, modifications or other alterations of any approved Final Plats, site plans, and/or Development Applications procured by FINCH CREEK for the Development Property; or

(iv) propose or oppose any amendments, modifications or other alterations to this Agreement.

23.1.3 The City agrees not to accept or process any of the foregoing matters from a Developer and/or Sub-developer unless the matter has been approved by the owner of the Development Property.

23.1.4 FINCH CREEK shall not amend, modify or alter this Agreement or the Design Guidelines, or any Final Plats, Development Agreements and/or site plans approved for the Development Property in a manner that would materially interfere with Developer and/or Sub-developer’s rights hereunder in respect of such Development Property, in each case without

Developer and/or Sub-developer's prior written consent, which shall not be unreasonably withheld, conditioned or delayed.

24. **Effect of Breach.** Notwithstanding any other provision of this Agreement, no breach or default hereunder, by any Person succeeding to any portion of a Property Owner's obligations under this Agreement shall be attributed to Property Owner. Nor may a Property Owner's rights hereunder be canceled or diminished in any way by any breach or default by any such Person. No breach or default hereunder by a Property Owner shall be attributed to any Person succeeding to any portion of such Property Owner's rights or obligations under this Agreement, nor shall such transferee's rights be canceled or diminished in any way by any breach or default by such Property Owner. During the development of the Project, until final approval of and dedication to the City, Developer, Owners or Owners, and their assigns, transferees, and sub-developers shall maintain the City as an additional named insured where reasonably possible, and without adding unreasonable cost, on any relevant or applicable liability insurance associated with the Project.

25. **Mortgagee Protection.** This Agreement shall be superior and senior to any lien placed upon the Property, or any portion thereof, including the lien of any Mortgage. Notwithstanding the foregoing, no breach of this Agreement shall defeat, render invalid, diminish or impair the lien of any such Mortgage made in good faith and for value, but all of the terms and conditions contained in this Agreement shall be binding upon and effective against any Person that acquires title to the Property, or any portion thereof, by foreclosure, trustee's sale, deed in lieu of foreclosure or otherwise. Notwithstanding the provisions of this Section, no Mortgagee shall have any obligation or duty under this Agreement to construct or complete the construction of improvements, or to guarantee such construction or completion. If the City receives a written notice from a Mortgagee requesting a copy of any notice of default given to a Property Owner or a Sub-developer and specifying the address for service thereof, then the City shall deliver to such Mortgagee, concurrently with service thereon to the Property Owner or a Sub-developer, as applicable, any notice of default or determination of noncompliance given to the Property Owner or such Sub-developer. Each Mortgagee shall have the right (but not the obligation) for a period of 90 days after the receipt of such notice from the City to cure or remedy the default claimed or the areas of noncompliance set forth in the City's notice. If such default or noncompliance is of a nature that it can only be cured or remedied by such a Mortgagee upon obtaining possession of the Property, then such Mortgagee may seek to obtain possession with diligence and continuity through a receiver or otherwise, and shall within 90 days after obtaining possession cure or remedy such default or noncompliance. If such default or noncompliance cannot with diligence be cured or remedied within either such 90 -day period, then such Mortgagee shall have such additional time as may be reasonably necessary to cure or remedy such default or noncompliance if such Mortgagee commences such cure or remedy during such 90 -day period and thereafter diligently pursues completion of such cure or remedy to the extent possible.

26. **Termination.**

26.1 This Agreement shall be terminated and of no further effect upon the occurrence of any of the following events:

- (i) Expiration of the Term of this Agreement, unless extended as provided in Section 4.3;
- (ii) Completion of the Project in accordance with the Development Entitlements and the City's issuance of all required occupancy permits and acceptance of all dedications and improvements required under the Development Entitlements and this Agreement;
- (iii) Except for the payment of applicable fees and assessments, as for any specific residential dwelling or other structure within the Project, this Agreement shall be terminated for such dwelling or other structure upon the issuance by City of a certificate of occupancy therefore;
- (iv) Entry of final judgment (with no further right of appeal) or issuance of a final order (with no further right of appeal) directing City to set aside, withdraw, or abrogate City's approval of this Agreement,
- (v) The effective date of a party's election to terminate the Agreement as specifically provided in this Agreement, or
- (vi) in the event that Developer or the project are in default, or where material, contractual and developmental obligations are not met, or any deadlines and conditions of this Agreement, and relevant State and Federal Laws not fulfilled or are violated, after appropriate default notices and cure provisions of this Agreement.

26.2 **Notice of Termination.** City shall, upon written request made by Developer or Developer's successor(s) or assign(s) or any Owner to City's Planning Director, determine if the Agreement has terminated with respect to any parcel or lot at the Property, and shall not unreasonably withhold, condition, or delay termination as to that lot or parcel. Upon termination of this Agreement as to any lot or parcel, City shall upon Developer or Developer's successor(s) or assign(s) or any Owner's request record a notice of termination that the Agreement has been terminated. The aforesaid notice may specify, and Developer or Developer's successor(s) or assign(s) and Owners agree, that termination shall not affect in any manner any continuing obligation to pay any item specified by this Agreement. Termination of the Agreement as to any parcel or lot at the Property shall not affect Developer or Developer's successor(s) or assign(s) or any Owner's rights or obligations under any of the Development Entitlements and Subsequent Entitlements, including but not limited to, the General Plan, Specific Plan, Zoning Ordinance and all other City policies, regulations, and ordinances applicable to the Project at the Property. City

may charge a reasonable fee for the preparation and recordation of any notice(s) of termination requested by Developer or Developer's successor(s) or assign(s) or any Owner.

26.3 Partial Termination. In the event of a termination of this Agreement with respect of any portion of the Property, any then-existing rights and obligations of the parties with respect to such portion of the Property shall automatically terminate and be of no further force, effect or operation. However, no termination of this Agreement with respect to any portion of the Property or the Project shall affect in any way the parties' rights and obligations hereunder with respect to any other portion of the Property or Project not subject to the termination. Subject to the provisions of the Default Paragraph 14, the expiration or termination of this Agreement shall not result in any expiration or termination of any Entitlement then in existence, without further action of City.

27. Insurance and Indemnification. Each Property Owner shall defend and hold the City and its officers, employees and consultants harmless for any and all claims, liability and damages arising out of the negligent actions or inactions of such Property Owner, its agents or employees pursuant to this Agreement, unless caused by the City's negligence or willful misconduct.

28. Hazardous, Toxic, and/or Contaminating Materials. Each Owner shall defend and hold the City and its elected and/or appointed boards, officers, agents, employees and consultants harmless from any and all claims, liabilities, costs, fines, penalties and/or charges of any kind whatsoever relating to the existence and removal, or caused by the introduction of hazardous, toxic and/or contaminating materials by such Property Owner on the Project or arising out of action or inactions of Developer, except where such claims, liability costs, fines, penalties and charges are due to the actions of the City or its elected or appointed boards, officers, agents, employees or consultants.

29. Binding Effect. If FINCH CREEK or another Property Owner conveys any portion of the Property to one or more Sub-developers, the property so conveyed shall have the same rights, privileges, Intended Uses and configurations, and shall be subject to the same limitations and rights of the City, applicable to such property under this Agreement prior to such conveyance, without any required approval, review, or consent by the City, except as otherwise provided herein.

30. No Waiver. Failure of any Party hereto to exercise any right hereunder shall not be deemed a waiver of any such right and shall not affect the right of such Party to exercise at some future date any such right or any other right it may have.

31. Severability. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid for any reason, the Parties consider and intend that this Agreement shall be deemed amended to the extent necessary to make it consistent with such decision and the balance of this Agreement shall remain in full force and affect.

32. **Force Majeure.** Any prevention, delay or stoppage of the performance of any obligation under this Agreement which is due to strikes, labor disputes, inability to obtain labor, materials, equipment or reasonable substitutes therefor; acts of nature, inclement weather, governmental restrictions, regulations or controls, judicial orders, enemy or hostile government actions, wars, civil commotions, fires or other casualties or other causes beyond the reasonable control of the Party obligated to perform hereunder shall excuse performance of the obligation by that Party for a period equal to the duration of that prevention, delay or stoppage.

33. **Time is of the Essence.** Time is of the essence to this Agreement and every right or responsibility shall be performed within the times specified.

34. **Appointment of Representatives.** To further the commitment of the Parties to cooperate in the implementation of this Agreement, the City and FINCH CREEK each shall designate and appoint a representative to act as a liaison between the City and its various departments and FINCH CREEK. The initial representative for the City shall be City Manager, or his designee and the initial representatives for FINCH CREEK shall be Marco Diaz. The Parties may change their designated representatives by Notice. The representatives shall be available at all reasonable times to discuss and review the performance of the Parties to this Agreement and the development of the Project.

35. **Mutual Drafting.** Each Party has participated in negotiating and drafting this Agreement and therefore no provision of this Agreement shall be construed for or against either Party based on which Party drafted any particular portion of this Agreement.

36. **Applicable Law.** This Agreement is entered into in the City in the State of Utah and shall be construed in accordance with the laws of the State of Utah irrespective of Utah's choice of law rules.

37. **Recordation and Running with the Land.** This Agreement shall be recorded in the office of the Wasatch County Recorder. Copies of the City's Vested Laws, **Exhibit D**, shall not be recorded. A secure copy of **Exhibit D** shall be filed with the City Recorder and each Party shall also have an identical copy. The provisions of this Agreement shall constitute real covenants, contract and property rights and equitable servitudes, which shall run with all of the land subject to this Agreement. The burdens and benefits hereof shall bind and inure to the benefit of each of the Parties hereto and all successors in interest to the Parties hereto. All successors in interest shall succeed only to those benefits and burdens of this Agreement which pertain to the portion of the Project Area to which the successor holds title. Such titleholder is not a third party beneficiary of the remainder of this Agreement or to zoning classifications and benefits relating to other portions of the Project Area. The obligations of Property Owners hereunder are enforceable by the City, and no other Person shall or may be a third party beneficiary of such obligations unless specifically provided herein.

38. **Authority.** The parties to this Agreement each warrant that they have all of the necessary authority to execute this Agreement. Specifically, on behalf of the City, the signature of the Mayor of the City is affixed to this Agreement lawfully binding the City pursuant to City Policy. This Agreement is approved as to form and is further certified as having been lawfully adopted by the City by the signature of the City Attorney.

39. **Covenant of Good Faith and Fair Dealing.** No party shall do anything which shall have the effect of injuring the right of another party to receive the benefits of this Agreement or do anything which would render its performance under his agreement impossible. Each party shall perform all acts contemplated by this Agreement to accomplish the objectives and purposes of this Agreement.

40. **Further Actions and Instruments.** The Parties agree to provide reasonable assistance to the other and cooperate to carry out the intent and fulfill the provisions of the Agreement. Each of the parties shall promptly execute and deliver all documents and perform all acts as necessary to carry out the matters contemplated by this Agreement.

41. **Partial Invalidity Due to Governmental Action.** In the event state or federal laws or regulations enacted after the Execution Date of this Agreement, or formal action of any governmental jurisdiction other than City, prevent compliance with one or more provisions of this Agreement, or require changes in plans, maps or permits approved by City, the parties agree that the provisions of this Agreement shall be modified extended or suspended only to the minimum extent necessary to comply with such laws or regulations.

[Signatures appear on the following two pages.]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement by and through their respective, duly authorized representatives as of the day and year first herein above written.

PROPERTY OWNER

Finch Creek, LLC
Utah limited liability company

By: 
Name: James Stout
Title: Manager

PROPERTY OWNER ACKNOWLEDGMENT

STATE OF UTAH)
)
CITY OF SALT LAKE)

On the 5th day of December, 2022, personally appeared before me James Stout, who being by me duly sworn, did say that he is the Manager of Finch Creek, LLC, and that the foregoing instrument was duly authorized by the company at a lawful meeting held by authority of its operating agreement and signed in behalf of said company.




NOTARY PUBLIC

CITY

Heber City, a political subdivision of the State of Utah

By: Heidi Franco
Name: Heidi Franco
Its: Mayor



Approved as to form and legality:

Attest:

City Attorney

City Recorder

By: [Signature]

By: Trina N Cooke

CITY ACKNOWLEDGMENT

STATE OF UTAH

)

:§.

CITY OF HEBER

)

On the 5th day of December, 2022, personally appeared before me Heidi Franco who being by me duly sworn, did say that she is the Mayor of City of Heber, a political subdivision of the State of Utah, and that said instrument was signed in behalf of the City by authority of its governing body.



Trina N Cooke
NOTARY PUBLIC

EXHIBIT A

TO DEVELOPMENT AGREEMENT FOR FINCH CREEK MIXED USE RESIDENTIAL DEVELOPMENT

Legal Description

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN WASATCH COUNTY, UTAH AND IS DESCRIBED AS FOLLOWS:

PARCEL 1: (PARCEL NO.: 00-0007-7847/SERIAL NO.: OWC-0537-0-019-035)

ADDRESS: 3390 N HWY 40, HEBER CITY, UT 84032

COMMENCING AT A POINT HAVING STATE PLANE RECTANGULAR COORDINATES OF X:2022919.84 AND Y:806794.95 (BASED ON THE CONFORMAL PROJECTION, UTAH CENTRAL ZONE); SAID POINT ALSO BEING SOUTH 935.47 FEET AND EAST 1646.19 FEET FROM THE NORTH ONE-QUARTER CORNER OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN; THENCE SOUTH 87°18'04" WEST 515.93 FEET; THENCE NORTH 28°34'26" WEST 129.47 FEET; THENCE NORTH 64°00' EAST 50.0 FEET; THENCE NORTH 18°56'24" WEST 153.68 FEET; THENCE NORTH 68°25'30" EAST 492.04 FEET; THENCE SOUTH 49°00'48" EAST 30.21 FEET; THENCE SOUTH 32°32'13" EAST 96.2 FEET; THENCE SOUTH 52°35'46" WEST 139.24 FEET; THENCE SOUTH 32°30'37" EAST 298.9 FEET TO THE POINT OF BEGINNING.

LESS AND EXCEPTING THE FOLLOWING DESCRIBED PROPERTY;

ALL THAT PORTION OF THE THOMAS W. AND PAULA P. ANDERSON PROPERTY, SITUATE IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER (NE 1/4 NE 1/4) OF SECTION NINETEEN (19), TOWNSHIP THREE (3) SOUTH, RANGE FIVE (5) EAST, SALT LAKE BASE AND MERIDIAN, INCLUDED WITHIN A STRIP OF LAND TWENTY-FIVE (25.00) FEET WIDE, TWENTY-FIVE (25.00) FEET RIGHT OR WESTERLY FROM THE CENTER LINE OF THE WASATCH CANAL, FROM STATION 97+22 TO 98+44: BEGINNING AT A POINT IN THE CENTERLINE OF THE WASATCH CANAL (STATION 97+22), AS SAID CENTERLINE IS DEPICTED ON THE ATTACHED EXHIBIT A (ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF), WHICH POINT IS FOUR HUNDRED SEVENTY-SIX AND SEVENTY-NINE HUNDREDTHS (476.79) FEET SOUTH AND ELEVEN HUNDRED AND FIFTY-SIX HUNDREDTHS (1100.56) FEET WEST FROM THE NORTHEAST CORNER OF SAID SECTION NINETEEN (19) (BRASS CAP SET 1976); THENCE SOUTHEASTERLY SIXTY-FOUR AND TWENTY-FOUR HUNDREDTHS (64.24) FEET ALONG THE ARC OF A ONE HUNDRED FORTY (140.00) FOOT RADIUS CURVE TO THE RIGHT (CHORD BEARS SOUTH 39°17'21" EAST SIXTY-THREE AND SIXTY-EIGHT HUNDREDTHS (63.68) FEET) TO THE POINT OF REVERSE CURVATURE OF A ONE HUNDRED SEVENTY-TWO AND FIFTY-FIVE HUNDREDTHS (172.55) FOOT RADIUS CURVE; THENCE SOUTHEASTERLY FIFTY-EIGHT AND FIFTY HUNDREDTHS (58.50) FEET ALONG THE ARC OF SAID CURVE TO A POINT (STATION 98+44) ONE THOUSAND TWENTY-SIX AND FOURTEEN HUNDREDTHS (1026.14) FEET WEST AND FIVE HUNDRED

SEVENTY-THREE AND TWENTY-SIX HUNDREDTHS (573.26) FEET SOUTH FROM THE NORTHEAST CORNER OF SAID SECTION NINETEEN (19) (BRASS CAP SET 1976). EXCEPTING THE PORTION THAT LIES WITHIN THE HALL FAMILY PARTNERSHIP TRACT, (ENTRY NO. 185608, RECORDED MARCH 21, 1996, IN BOOK 318, AT PAGE 410, WASATCH COUNTY, UTAH).

THE SIDE BOUNDARIES OF SAID STRIP ARE TO BE SHORTENED OR EXTENDED SO AS TO BEGIN ON SAID NORTHERLY BOUNDARY LINE AND END ON SAID SOUTHERLY BOUNDARY LINE OF SAID PROPERTY BOUNDARY.

SITUATE IN WASATCH COUNTY, STATE OF UTAH.

PARCEL 2: (PARCEL NO.: 00-0021-2027/ SERIAL NO.: OWC-0539-5-019-035)

ADDRESS: NONE ASSIGNED

BEGINNING AT A POINT BEING SOUTH 00°30'30" EAST 1085.37 FEET AND SOUTH 89°53'52" WEST 669.21 FEET FROM THE NORTHEAST CORNER OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN; AND RUNNING THENCE SOUTH 89°53'52" WEST, A DISTANCE OF 466.63 FEET; THENCE SOUTH 42°04'20" WEST, A DISTANCE OF 263.72 FEET TO A POINT ON THE NORTHWEST SIDELINE OF STATE HIGHWAY 40; THENCE NORTH 31°21'37" WEST, ALONG SAID SIDELINE, A DISTANCE OF 402.47 FEET; THENCE NORTH 87°13'09" EAST, A DISTANCE OF 520.38 FEET; THENCE NORTH 32°30'59" WEST, A DISTANCE OF 298.91 FEET; THENCE NORTH 52°35'58" EAST, A DISTANCE OF 139.08 FEET; THENCE NORTH 32°24'17" WEST, A DISTANCE OF 96.36 FEET; THENCE NORTH 49°02'11" WEST, A DISTANCE OF 30.17 FEET; THENCE SOUTH 68°24'44" WEST 515.30 FEET TO A POINT ON THE NORTHWESTERLY SIDELINE OF SAID HIGHWAY 40; THENCE NORTH 24°49'56" WEST, ALONG SAID SIDELINE A DISTANCE OF 150.48 FEET; THENCE NORTH 69°59'05" EAST, A DISTANCE OF 399.34 FEET; THENCE SOUTH 70°20'17" EAST, A DISTANCE OF 104.96 FEET TO THE CENTER LINE OF WASATCH CANAL; THENCE ALONG THE CENTER LINE OF SAID WASATCH CANAL THE FOLLOWING NINE (9) COURSES; (1) SOUTH 62°37'14" EAST 78.81 FEET; (2) SOUTH 39°53'29" EAST 132.39 FEET; (3) SOUTH 55°57'44" EAST 111.02 FEET; (4) SOUTH 43°39'59" EAST 56.24 FEET; (5) SOUTH 32°00'02" EAST 23.20 FEET; (6) SOUTH 20°24'36" EAST 117.27 FEET; (7) SOUTH 41°35'39" EAST 119.93 FEET; (8) SOUTH 24°37'46" EAST 140.91 FEET; (9) SOUTH 33°44'06" EAST 85.31 FEET TO THE POINT OF BEGINNING.

SITUATE IN WASATCH COUNTY, STATE OF UTAH.

PARCEL 3: (PARCEL NO.: 00-0021-2028/ SERIAL NO.: OWC-0539-6-019-035)

ADDRESS: NONE ASSIGNED

BEGINNING AT A POINT BEING SOUTH 00°30'30" EAST 1085.37 FEET AND SOUTH 89°53'52" WEST 669.21 FEET FROM THE NORTHEAST CORNER OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN; AND

RUNNING THENCE SOUTH 89°53'52" WEST, A DISTANCE OF 466.63 FEET; THENCE SOUTH 42°04'20" WEST, A DISTANCE OF 263.72 FEET TO A POINT ON THE NORTHWEST SIDELINE OF STATE HIGHWAY 40; THENCE NORTH 31°21'37" WEST, ALONG SAID SIDELINE, A DISTANCE OF 402.47 FEET; THENCE NORTH 87°13'09" EAST, A DISTANCE OF 520.38 FEET; THENCE NORTH 32°30'59" WEST, A DISTANCE OF 298.91 FEET; THENCE NORTH 52°35'58" EAST, A DISTANCE OF 139.08 FEET; THENCE NORTH 32°24'17" WEST, A DISTANCE OF 96.36 FEET; THENCE NORTH 49°02'11" WEST, A DISTANCE OF 30.17 FEET; THENCE SOUTH 68°24'44" WEST 515.30 FEET TO A POINT ON THE NORTHWESTERLY SIDELINE OF SAID HIGHWAY 40; THENCE NORTH 24°49'56" WEST, ALONG SAID SIDELINE A DISTANCE OF 150.48 FEET; THENCE NORTH 69°59'05" EAST, A DISTANCE OF 399.34 FEET; THENCE SOUTH 70°20'17" EAST, A DISTANCE OF 104.96 FEET TO THE CENTER LINE OF WASATCH CANAL; THENCE ALONG THE CENTER LINE OF SAID WASATCH CANAL THE FOLLOWING NINE (9) COURSES; (1) SOUTH 62°37'14" EAST 78.81 FEET; (2) SOUTH 39°53'29" EAST 132.39 FEET; (3) SOUTH 55°57'44" EAST 111.02 FEET; (4) SOUTH 43°39'59" EAST 56.24 FEET; (5) SOUTH 32°00'02" EAST 23.20 FEET; (6) SOUTH 20°24'36" EAST 117.27 FEET; (7) SOUTH 41°35'39" EAST 119.93 FEET; (8) SOUTH 24°37'46" EAST 140.91 FEET; (9) SOUTH 33°44'06" EAST 85.31 FEET TO THE POINT OF BEGINNING.
SITUATE IN WASATCH COUNTY, STATE OF UTAH.

EXHIBIT B TO DEVELOPMENT AGREEMENT FOR FINCH CREEK MIXED USE RESIDENTIAL DEVELOPMENT

Site Plan



TOWNHOME SITE PLAN

CONCEPTUAL DESIGN PACKAGE

FINCH CREEK TOWNHOME SUBDIVISION - PHASE 1

12 JULY 2022

aeurbia
architects and engineers

EXHIBIT C
TO DEVELOPMENT AGREEMENT FOR FINCH CREEK MIXED USE RESIDENTIAL
DEVELOPMENT
North Fields

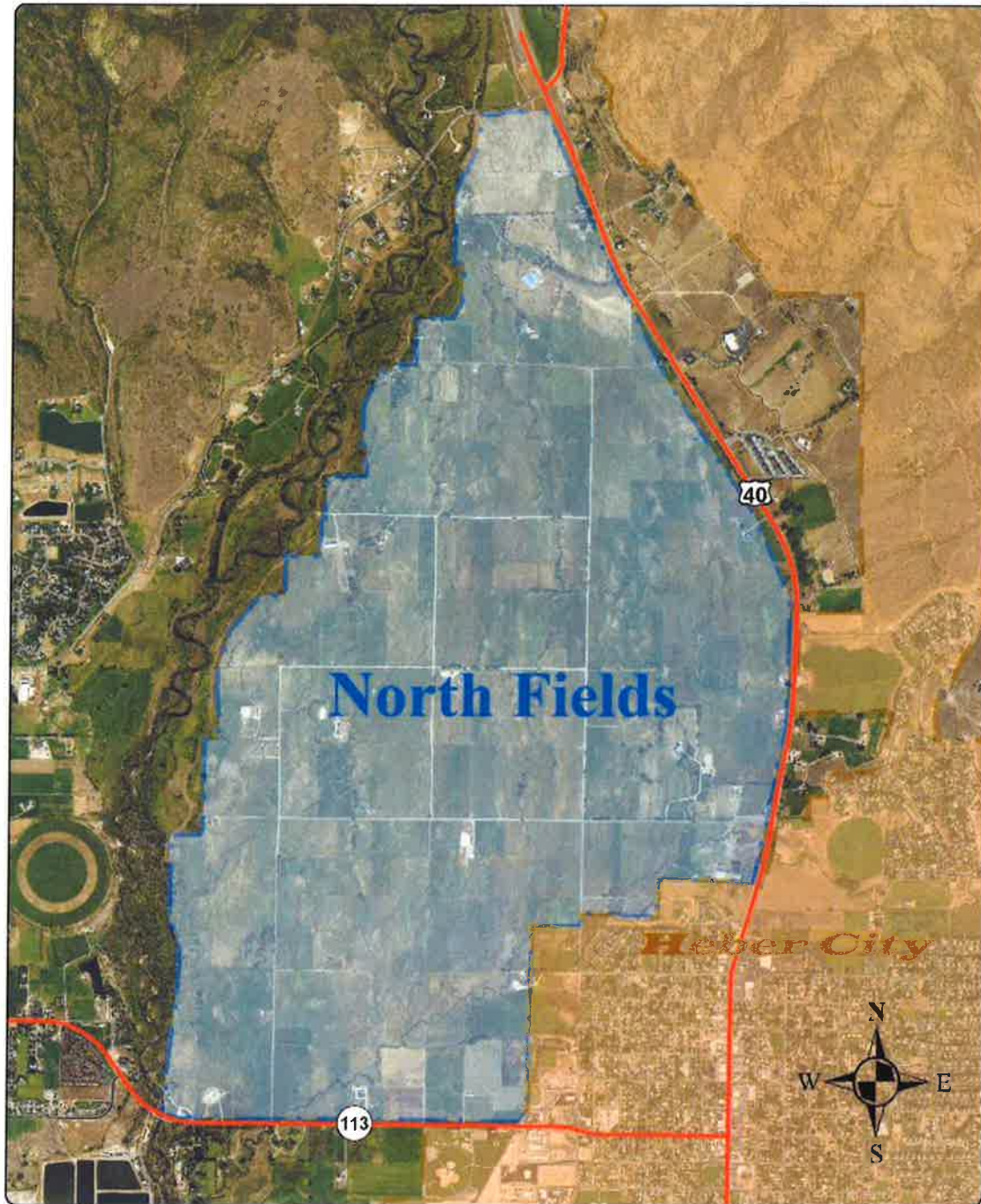


EXHIBIT D
TO DEVELOPMENT AGREEMENT FOR FINCH CREEK MIXED USE RESIDENTIAL
DEVELOPMENT

City's Vested Laws

For the City's Vested Laws, reference the North Village Overlay Zone (NVOZ), adopted by the City Council of Heber City, Utah, in Chapter 18.81 of Heber Municipal Code on March 16, 2021.



Planning Commission Staff Report

MEETING DATE: 7/23/2024
SUBJECT: School House Academy~Site Plan, located at 700 School House Way (Planner Denna Woodbury)
RESPONSIBLE: Denna Woodbury
DEPARTMENT: Planning
STRATEGIC RELEVANCE: Community Development

SUMMARY

This item is an agenda item for Site Plan Approval.
The policy question includes the following:

- Should a Site Plan be approved for the School House Academy?

RECOMMENDATION

Staff recommends that the Planning Commission approve the Site Plan for the School House Academy site located at 700 School House Way, subject to findings and conditions.

BACKGROUND

G.C. Garcia, Inc. has reviewed the Site Plan for the School House Academy.

The applicant is proposing to develop this project in phases. This application is for Phase 1 to construct one building on 1.76 acres for a childhood development center, including daycare, family resources, professional services, and after-school programming.

DISCUSSION

The proposed project is for Phase 1 of School House Academy. The project consists of a one-story building that is 3,500 square feet and 19'-4" to the peak of the roof. The architecture of the building resembles an old-style school house with two cupolas. The building has 3 main doors and 3 garage-style doors. The building materials are board and batten siding, with horizontal siding on the cupolas. The roof will be standing seam metal. The building will be light in color with a dark roof as depicted

on the elevation exhibit.

The project incorporates a fenced playground area.

The project, when both phases are completed, anticipates 14 teachers and 68 students. The parking requirement for both phases is one space for each employee and one loading space for every 20 people enrolled. This equates to 14 employee parking spaces and 4 loading spaces. When the project is completed, they will have 25 parking spaces plus 6 loading spaces. With Phase 1, there will be 6 loading spaces and 10 parking spaces, including 1 ADA space.

The project meets the landscaping and the dark sky lighting requirements.

FISCAL IMPACT

None.

CONCLUSION

The proposed School House Academy Site Plan will benefit the community. The Site Plan meets the City Code and is recommended for approval.

Staff recommends that the School House Academy Site Plan be approved by the Planning Commission with the following findings and conditions:

Findings:

1. The application is consistent with the Municipal Zoning Code.
2. The application is consistent with the General Plan.
3. The proposed Site Plan shall comply with City ordinances, Federal, State Law, as applicable to the site where the conditional use is located.

Conditions:

- 1 All requirements of the City Engineer shall be met.
2. All other Code Requirements shall be met.
3. Any other conditions or changes as articulated by the Planning Commission.
4. Phase 2 of the School House Academy receive a separate Site Plan approval.

ALTERNATIVES

Staff Recommended Option - Approval

I move to **approve School House Academy~Site Plan** as presented, with the findings and conditions as presented in the conclusion above.

Alterntive 2 - Continuance

I move to **continue School House Academy~Site Plan** to another meeting on , with direction to the applicant and/or Staff on information and / or changes needed to render a decision, as follows:

Alternative 3 - DENIAL

I move to **deny School House Academy~Site Plan** with the following findings.

POTENTIAL MOTIONS

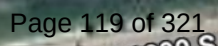
ACCOUNTABILITY

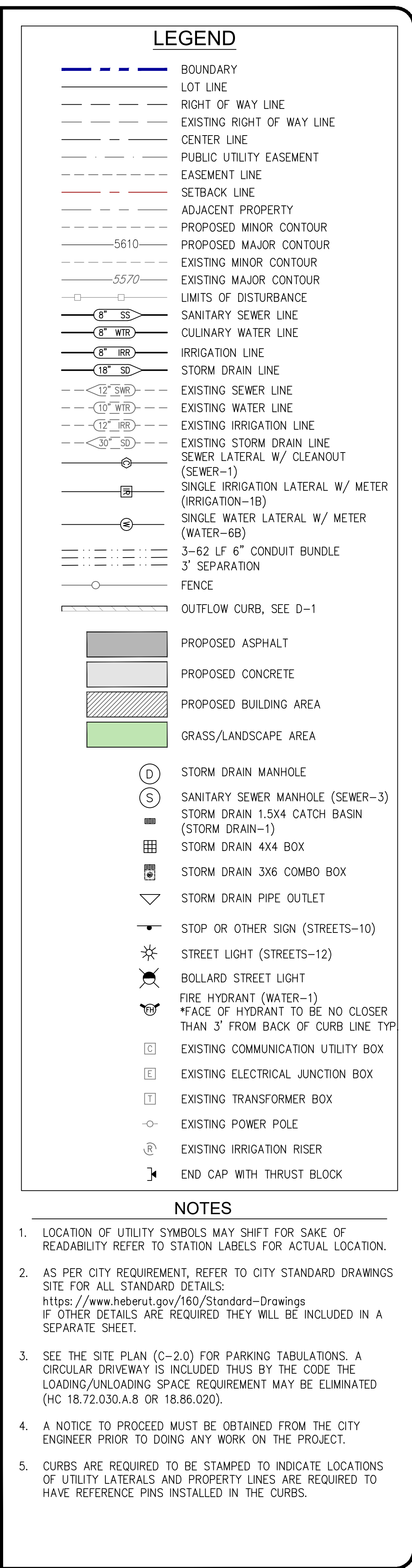
Department: Planning

Staff member: Denna Woodbury, Planning Consultant

EXHIBITS

1. Project location
2. Phasing Plan
3. Phasing Outline
4. SHA Trifold Brochure
5. Site Plan
6. Landscape Plan
7. Elevations rev
8. lighting plan
9. lighting fixture detail 1
10. lighting fixture detail 2
11. Development Agreement
12. Traffic Study





Page 120 of 321

SCHOOL HOUSE ACADEMY

Project Phasing

The School House Academy (“SHA”) project will be constructed in two distinct phases.

SHA intends to open the Phase 1 facility – School House Cottage – in the Fall 2024, to coincide with the start of the 2024/25 school year. The Phase 1 School House Cottage will provide day care for up to **78 students** at any given time (potentially more individuals when considering half-day, after-school, and drop-in program options), and will create a minimum of **14 new jobs** in Heber City.

Phase 1 construction will include the following components shown on the site plan:

- the 50’ x 70’ School House Cottage itself (building design and materials from Wright Building)
- installation of the parking and sidewalks adjacent to the School House Cottage,
- the full circular driveway,
- the fenced playground area,
- the utilities related to Phase 1 construction, and
- placard signage on the School House Cottage (including seasonal promotional).

SHA’s supporting partner companies will perform the site prep, building assembly and interior finish work during the late Summer and early Fall 2024.

SHA intends to start construction on phase 2 two to five years after the completion of Phase 1. We anticipate that full project construction will take just over one year, allowing us to open the completed School House Academy in the Fall 2026, to coincide with the start of the 2026/27 school year. The completed School House Academy will provide day care for approximately **180 students** at a time (depending on half-day, after-school, and drop-in program options), and will create a minimum of **22 new jobs** in Heber City.

Phase 2 construction will include the remaining components shown on the site plan:

- the 160’ x 55’ School House Academy (3 floors, with 2 above grade),
- installation of the parking and sidewalks adjacent to the School House Academy building,
- the utilities related to Phase 2 construction, and
- additional placard signage on the building.

OUR SERVICES

Flexible to fit each family's unique needs:

Partial-Day program

- Childcare provided for 4 hours or less per day on a consistent schedule

Full-Day Program

- Childcare provided for 4.5 hours or more per day on a consistent schedule

Before- and After-School Program

- Childcare and activities provided for school-aged children, K-12

Drop-In Program

- Childcare provided on an as-needed basis with an hourly rate per child, per age of child



ABOUT US

**School House Academy
Foundation a 501(c)3 non-profit**

A team of certified, licensed, and passionate professionals seeking to improve the Wasatch County community and workforce through quality childcare and child development services, for youth ages 0-18 and their families.



Our Mission:

Child care and resources to support all learners and promote physical, social/emotional, language, literacy, and academic/pre-academic skills for all children through evidence-based, developmentally-appropriate practices while also providing a safe environment that families can rely on.



OUR PROGRAMS

- Childcare (6 weeks-5 yrs)
- Preschool (3-5 yrs)
- Afterschool programs (5-18 yrs)
- Social & emotional development
- Speech & language development
- Academic support
- Invite in wrap-around services
 - Mental Health Services
 - Food Pantry
 - Health Services
 - Vision Services
 - Dental Services
 - Etc.



ENROLLMENT TIMELINE

Phase 1

Building Summer 2024
Opening Fall 2024



Phase 2

Building Summer 2025
Opening Fall 2026



STAY IN TOUCH



Call/Text: 435-610-1838



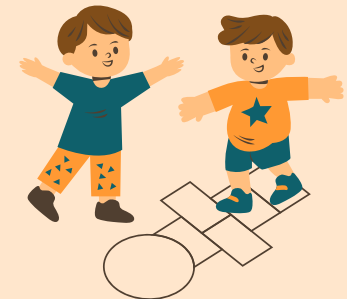
www.schoolhouseway.org



schoolhouseway@gmail.com



700 School House Way
Heber City, UT 84032



ATWELL
CONSULTING ENGINEERS

DATE: 5/20/2024

DESIGN ENGINEER: [Signature]

PROJECT ENGINEER: [Signature]

PROJECT: SCHOOLHOUSE ACADEMY

SHEET: 24002489

SHEET TITLE: SITE PLAN

DATE: 5/20/2024

DESIGN ENGINEER: [Signature]

PROJECT ENGINEER: [Signature]

PROJECT: SCHOOLHOUSE ACADEMY

SHEET: 24002489

SHEET TITLE: SITE PLAN

DATE: 5/20/2024

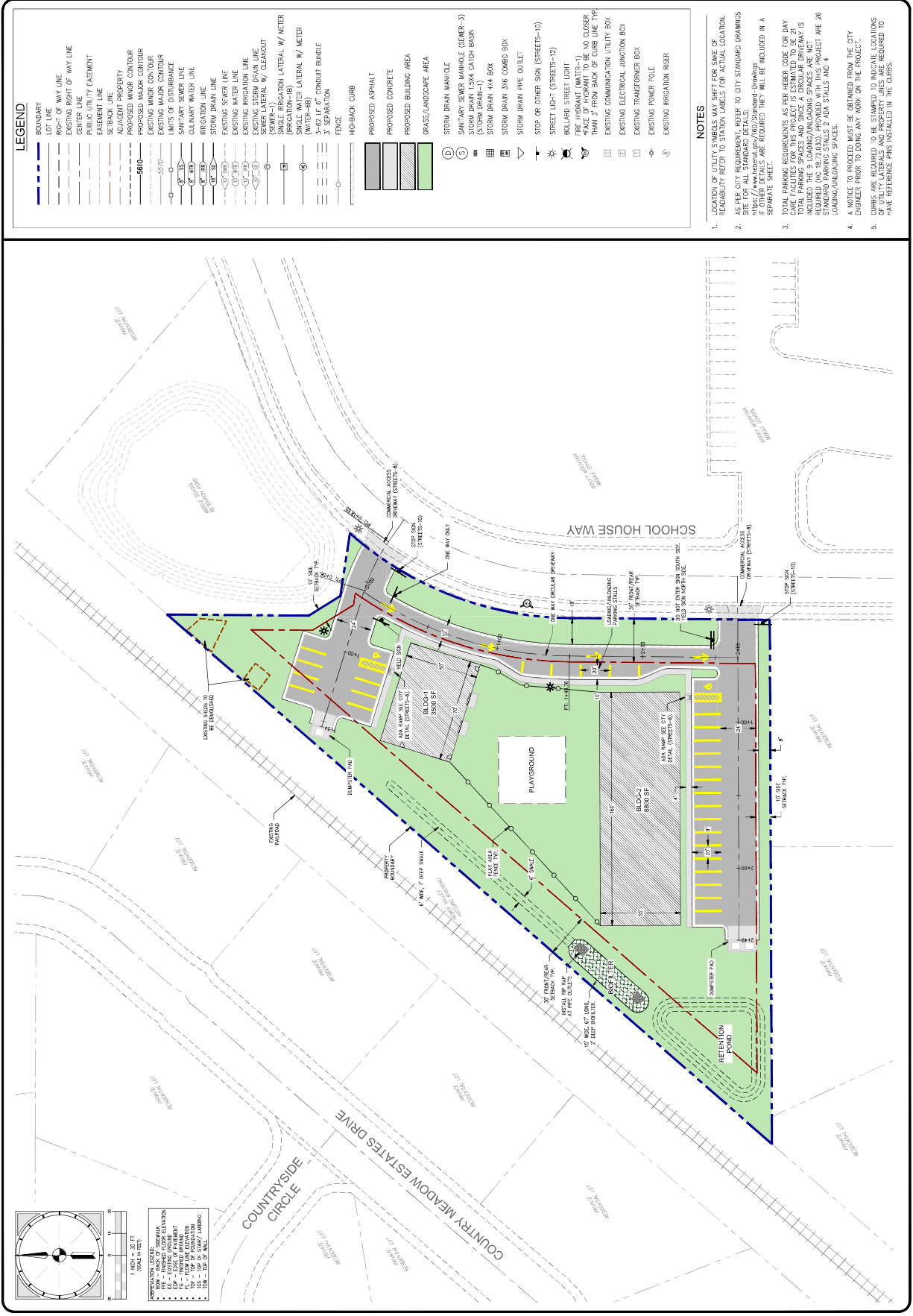
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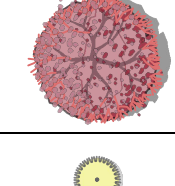
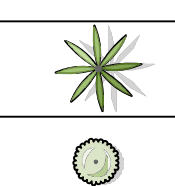
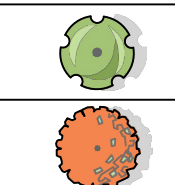
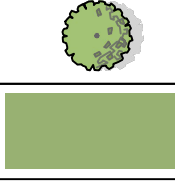
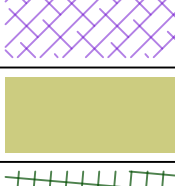
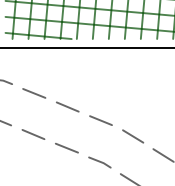
PROJECT ENGINEER: [Signature]

PROJECT: SCHOOLHOUSE ACADEMY

SHEET: 24002489

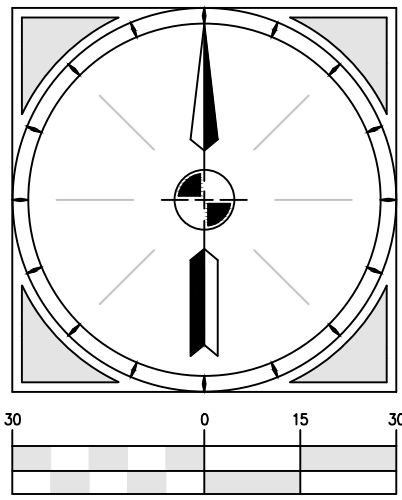
SHEET TITLE: SITE PLAN



SYMBOL	PLANT NAME	SIZE
	FRAXINUS AMERICANA 'MARSHALLS' / MARSHALLS SEEDLESS ASH (50'X40')	2" CALIPER
	PRUNUS VIRGINIANA 'CANADA RED' / CANADA RED CHOKECHERRY (25'X20')	2" CALIPER
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	5 GAL.
	HESPERALOE PARVIFLORA / RED YUCCA (FLOWERING)	5 GAL.
	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	5 GAL.
	POTENTILLA FRUTICOSA / BUSH CINQUEFOIL (FLOWERING)	5 GAL.
	CORNUS STOLONIFERA / ARTIC FIRE DOGWOOD	5 GAL.
	WEIGELA FLORIDA 'ALEXANDRA' / WINE & ROSE WEIGELA (FLOWERING)	5 GAL.
	SOD AREAS	29167 SF
	PLANTER BEDS	10988 SF
	XERISCAPED AREAS	195 SF
	BIOFILTER AREA (SEE HEBER CITY STORM DRAIN DESIGN MANUAL PAGES 13-15)	890 SF

NOTES:

- DUE TO AVAILABILITY, SUBSTITUTIONS FOR TREES AND SHRUBS OF SIMILAR SIZE AND APPEARANCE FROM THE CITY'S APPROVED PLANT LIST MAY BE USED AT TIME OF PLANTING.
- ALL LANDSCAPE AREAS TO BE IRRIGATED BY UNDERGROUND SPRINKLER SYSTEM.
- INSTALL 4" SLEEVES UNDER SIDEWALK AS REQUIRED.
- AMEND TOPSOIL IN PUBLIC R.O.W. IF REQUIRED TO AVOID PLANTING GRASS ON ROCK.
- A MAXIMUM OF 10% OF THE TOTAL LANDSCAPE AREA MAY BE LEFT UNVEGETATED AND COVERED WITH ROCK MULCH. A MINIMUM OF 40% OF LANDSCAPED AREAS ARE TO BE COVERED WITH PLANTED VEGETATION. ALL PLANTERS TO BE COVERED BY LIVE PLANT MATERIAL WITHIN 5 YEARS OF PROJECT COMPLETION
- A MINIMUM OF 20% OF LANDSCAPED AREAS SHALL BE PLANTER BEDS.
- PLANT QUANTITIES AND COVERAGE ARE TO MEET CODE REQUIREMENTS.
- PLANTER BED AREAS ARE TO USE A EVENLY SPACED COMBINATION OF THE SHRUBS LISTED IN THE TABLE. 40% OF LANDSCAPED AREAS AREA TO BE COVERED WITH PLANTED VEGETATION.
- SEE HEBER CODE 18.76.030 FOR LANDSCAPE STANDARDS.



- ABBREVIATION LEGEND:
- BOW - BACK OF SIDEWALK
 - FFE - FINISHED FLOOR ELEVATION
 - EG - EXISTING GROUND
 - EOP - EDGE OF PAVEMENT
 - FG - FINISHED GROUND
 - FL - FLOW LINE ELEVATION
 - TOP - TOP OF FOUNDATION
 - TOS - TOP OF STAIR/ LANDING
 - TOW - TOP OF WALL

LEGEND

- BOUNDARY
- LOT LINE
- RIGHT OF WAY LINE
- EXISTING RIGHT OF WAY LINE
- CENTER LINE
- PUBLIC UTILITY EASEMENT
- EASEMENT LINE
- SETBACK LINE
- ADJACENT PROPERTY
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- LIMITS OF DISTURBANCE
- 8" SS - SANITARY SEWER LINE
- 8" WTR - CULINARY WATER LINE
- 8" IRR - IRRIGATION LINE
- 18" SD - STORM DRAIN LINE
- 12" SWR - EXISTING SEWER LINE
- 10" WTR - EXISTING WATER LINE
- 12" IRR - EXISTING IRRIGATION LINE
- 30" SD - EXISTING STORM DRAIN LINE
- SEWER-1 - SEWER LATERAL W/ CLEANOUT (SEWER-1)
- IRRIGATION-1B - SINGLE IRRIGATION LATERAL W/ METER (IRRIGATION-1B)
- WATER-6B - SINGLE WATER LATERAL W/ METER (WATER-6B)
- 3-62 LF 6" CONDUIT BUNDLE 3' SEPARATION
- FENCE
- OUTFLOW CURB, SEE D-1

- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED BUILDING AREA
- GRASS/LANDSCAPE AREA

- D - STORM DRAIN MANHOLE
- S - SANITARY SEWER MANHOLE (SEWER-3)
- 1.5X4 - STORM DRAIN 1.5X4 CATCH BASIN (STORM DRAIN-1)
- 4X4 - STORM DRAIN 4X4 BOX
- 3X6 - STORM DRAIN 3X6 COMBO BOX
- PIPE - STORM DRAIN PIPE OUTLET
- STOP OR OTHER SIGN (STREETS-10)
- STREET LIGHT (STREETS-12)
- BOLLARD - BOLLARD STREET LIGHT
- FIRE - FIRE HYDRANT (WATER-1)
- FACE - *FACE OF HYDRANT TO BE NO CLOSER THAN 3' FROM BACK OF CURB LINE TYP
- EXISTING - EXISTING COMMUNICATION UTILITY BOX
- EXISTING - EXISTING ELECTRICAL JUNCTION BOX
- EXISTING - EXISTING TRANSFORMER BOX
- EXISTING - EXISTING POWER POLE
- EXISTING - EXISTING IRRIGATION RISER
- END - END CAP WITH THRUST BLOCK

NOTES

1. LOCATION OF UTILITY SYMBOLS MAY SHIFT FOR SAKE OF READABILITY REFER TO STATION LABELS FOR ACTUAL LOCATION.
2. AS PER CITY REQUIREMENT, REFER TO CITY STANDARD DRAWINGS SITE FOR ALL STANDARD DETAILS:
<https://www.heberut.gov/160/Standard-Drawings>
IF OTHER DETAILS ARE REQUIRED THEY WILL BE INCLUDED IN A SEPARATE SHEET.
3. SEE THE SITE PLAN (C-2.0) FOR PARKING TABULATIONS. A CIRCULAR DRIVEWAY IS INCLUDED THUS BY THE CODE THE LOADING/UNLOADING SPACE REQUIREMENT MAY BE ELIMINATED (HC 18.72.030.A.8 OR 18.86.020).
4. A NOTICE TO PROCEED MUST BE OBTAINED FROM THE CITY ENGINEER PRIOR TO DOING ANY WORK ON THE PROJECT.
5. CURBS ARE REQUIRED TO BE STAMPED TO INDICATE LOCATIONS OF UTILITY LATERALS AND PROPERTY LINES ARE REQUIRED TO HAVE REFERENCE PINS INSTALLED IN THE CURBS.



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REVISIONS

DATE

BY

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7

8

FOR REVIEW
ONLY. NOT FOR
CONSTRUCTION.

PROJECT ENGINEER

BMB

PROJECT MANAGER

BMB

DRAWN BY:

ANF

ISSUE DATE

7/10/2024

PROJECT

SCHOOLHOUSE ACADEMY

SHEET TITLE

LANDSCAPE PLAN

24002489

SHEET

C-6.0



B1 NORTH ELEVATION
A201 | SCALE: 1/4" = 1'-0"



D1 SOUTH ELEVATION
A201 | SCALE: 1/4" = 1'-0"

EXTERIOR MATERIAL LEGEND

EM1		BOARD AND BATTEN SIDING
EM2		STANDING METAL SEAM
EM3		HORIZONTAL SIDING

GENERAL NOTES

- GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, AND ASSEMBLIES PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- ALL MASONRY WALLS TO HAVE CONTROL JOINTS AT 30'-0" O.C. MAXIMUM. VERIFY WITH STRUCTURAL.
- EXPOSED CONCRETE FOUNDATION AND RETAINING WALLS TO RECEIVE RUBBED FINISH.
- CONCRETE WALL RETAINING EARTH TO RECEIVE TWO COATS OF BITUMINOUS DAMP PROOFING MATERIAL. PROVIDE PRE-FINISHED NUMBERS ON THE FRONT, EXTERIOR OF THE BUILDING INDICATING THE BUILDING ADDRESS NUMBER ASSIGNED BY THE CITY IN ACCORDANCE WITH CURRENT CITY ORDINANCE. COLOR OF PRE-FINISHED NUMBERS TO CONTRAST SIGNIFICANTLY WITH BACKGROUND COLOR OF EXTERIOR WALL. THAT ADDRESS MUST BE PERMANENTLY FASTENED TO THE EXTERIOR OF THE BUILDING PRIOR TO OCCUPANCY.
- SEE PLUMBING SHEETS AND ROOF DRAINAGE PLAN FOR SECONDARY ROOF DRAINAGE BRASS SCUPPER AND ROOF SCUPPER WITH PRE-FINISHED ALUMINUM DOWN SPOUT LOCATIONS ALONG EXTERIOR WALLS.
- SEE PLUMBING SHEETS FOR LOCATION OF GAS METER ALONG EXTERIOR WALL.
- SEE ELECTRICAL SHEETS FOR ELECTRICAL FIXTURE LOCATIONS ALONG EXTERIOR WALLS.
- EXTERIOR SIGNAGE: THE OWNER IS RESPONSIBLE TO OBTAIN A SEPARATE PERMIT FOR ANY EXTERIOR SIGNS IN ACCORDANCE WITH CURRENT CITY SIGN ORDINANCE. THE OWNER IS RESPONSIBLE TO CONTRACT DIRECTLY WITH SIGN VENDORS. SIGN VENDORS SHALL INSTALL THEIR RESPECTIVE SIGNAGE. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND COORDINATE ALL BACKING AND POWER REQUIREMENTS FOR EACH SIGN.
- NOT ALL SHEET NOTES ARE NECESSARILY USED ON EACH SHEET.

SCHOOL HOUSE ACADEMY

PROJECT TITLE AND ADDRESS

700 SCHOOL HOUSE WAY
HEBER CITY, UT 84032

REVISIONS	
△ DESCRIPTION	DATE

PROJECT INFORMATION

DATE:	1 JULY 2024
PROJECT #:	24-072
DRAWN BY:	BPJ
PM / PA:	MRR

DRAWING SET STATUS

SCHEMATIC DESIGN DRAWINGS

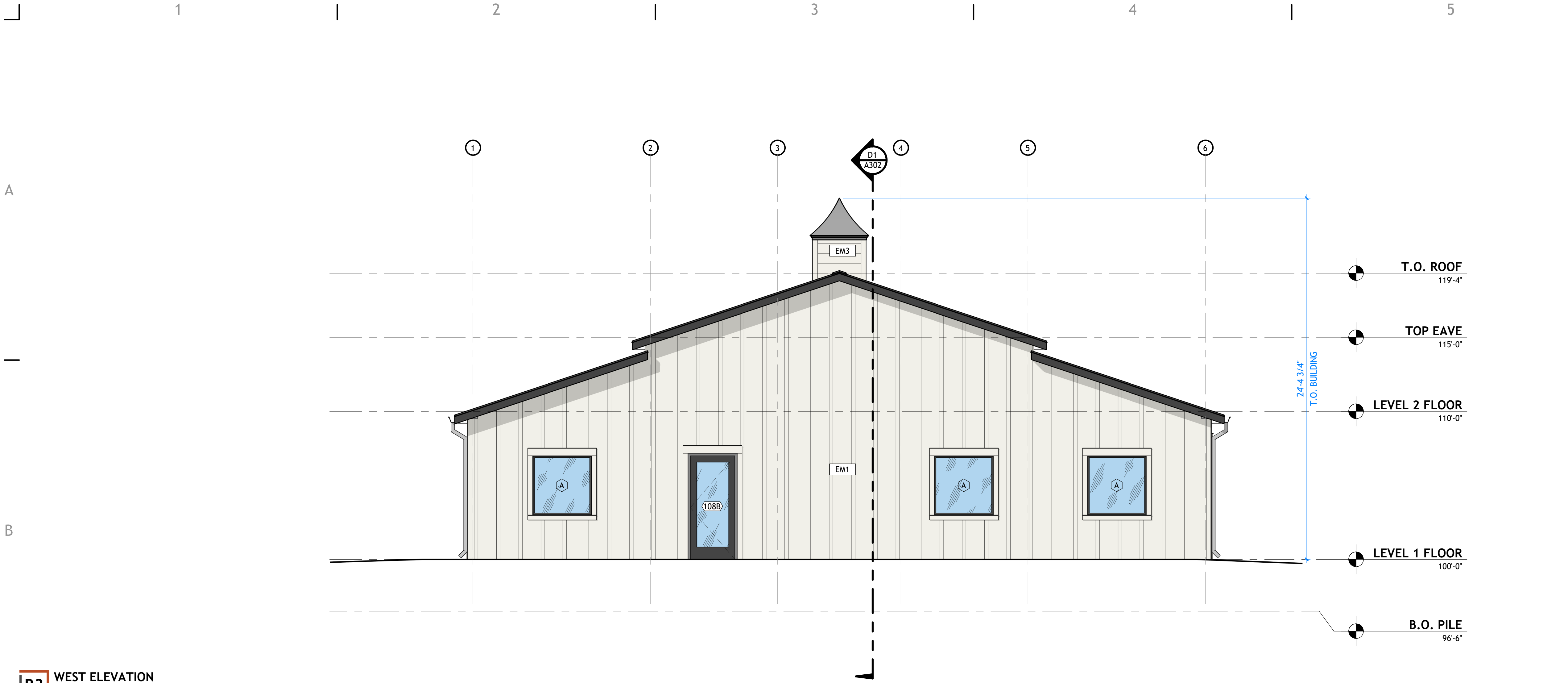
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SHEET TITLE

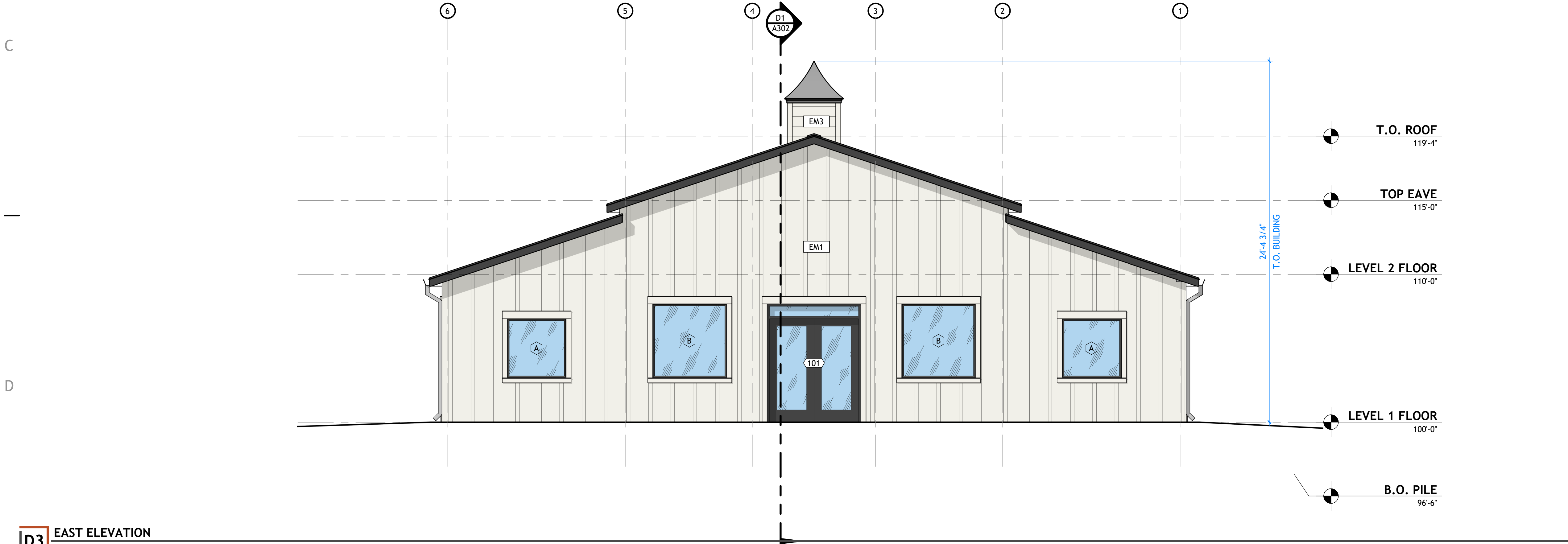
EXTERIOR ELEVATIONS

SHEET NUMBER

A201



B3 WEST ELEVATION
A202 | SCALE: 1/4" = 1'-0"



D3 EAST ELEVATION
A202 | SCALE: 1/4" = 1'-0"

KEYNOTES



233 SOUTH PLEASANT GROVE BLVD.
SUITE #105
PLEASANT GROVE, UTAH 84062
PHONE: (801) 769-3000
core@corearch.com

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PROFESSIONAL STAMP

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CONSULTANT INFORMATION

PROJECT TITLE AND ADDRESS
**SCHOOL HOUSE
ACADEMY**
700 SCHOOL HOUSE WAY
HEBER CITY, UT 84032

REVISIONS	
△ DESCRIPTION	DATE

PROJECT INFORMATION	
DATE:	1 JULY 2024
PROJECT #:	24-072
DRAWN BY:	BPJ
PM / PA:	MRR

DRAWING SET STATUS
**SCHEMATIC DESIGN
DRAWINGS**

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

SHEET TITLE

EXTERIOR
ELEVATIONS

SHEET NUMBER

A202

EXTERIOR MATERIAL LEGEND

EM1		BOARD AND BATTEN SIDING
EM2		STANDING METAL SEAM
EM3		HORIZONTAL SIDING

GENERAL NOTES

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- NOT ALL SHEET NOTES ARE NECESSARILY USED ON EACH SHEET.

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A

B



B1

3D VIEW 1

A203 SCALE:

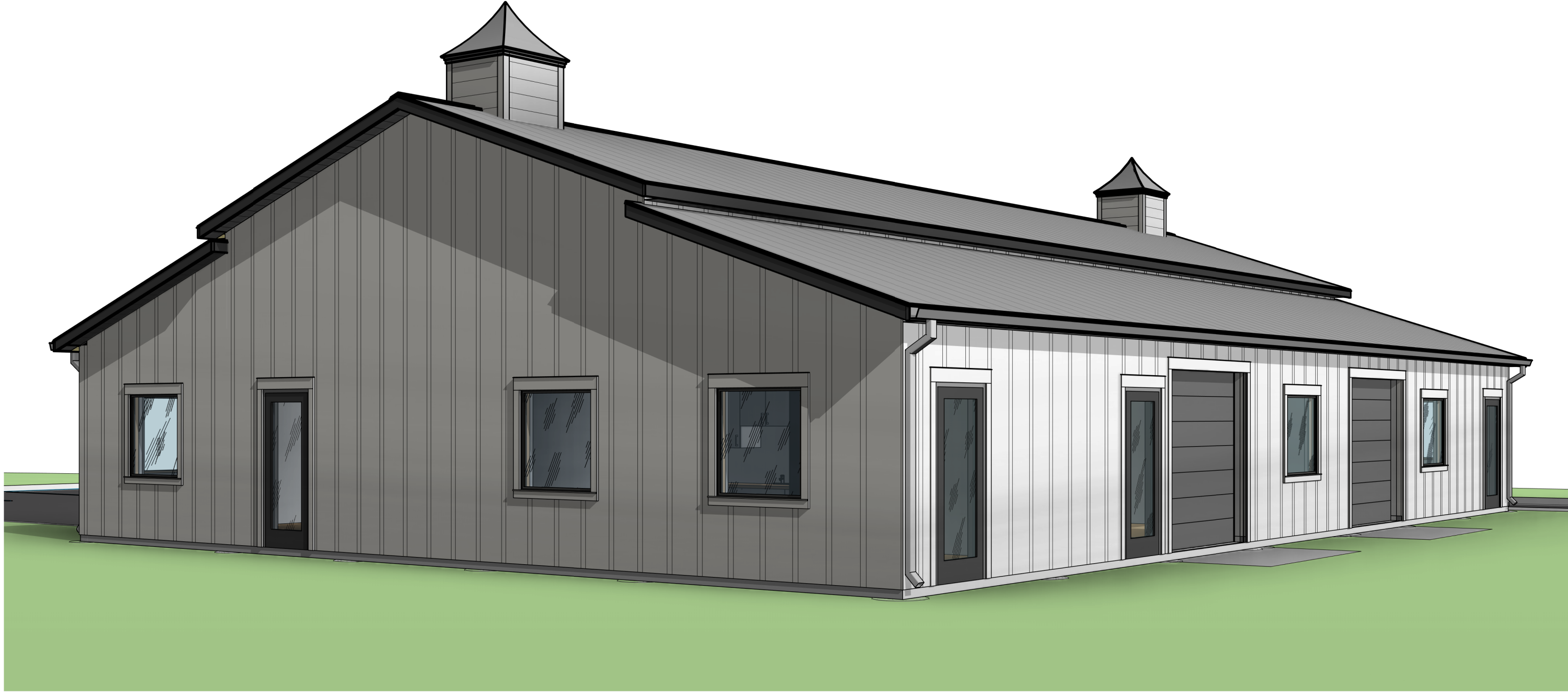
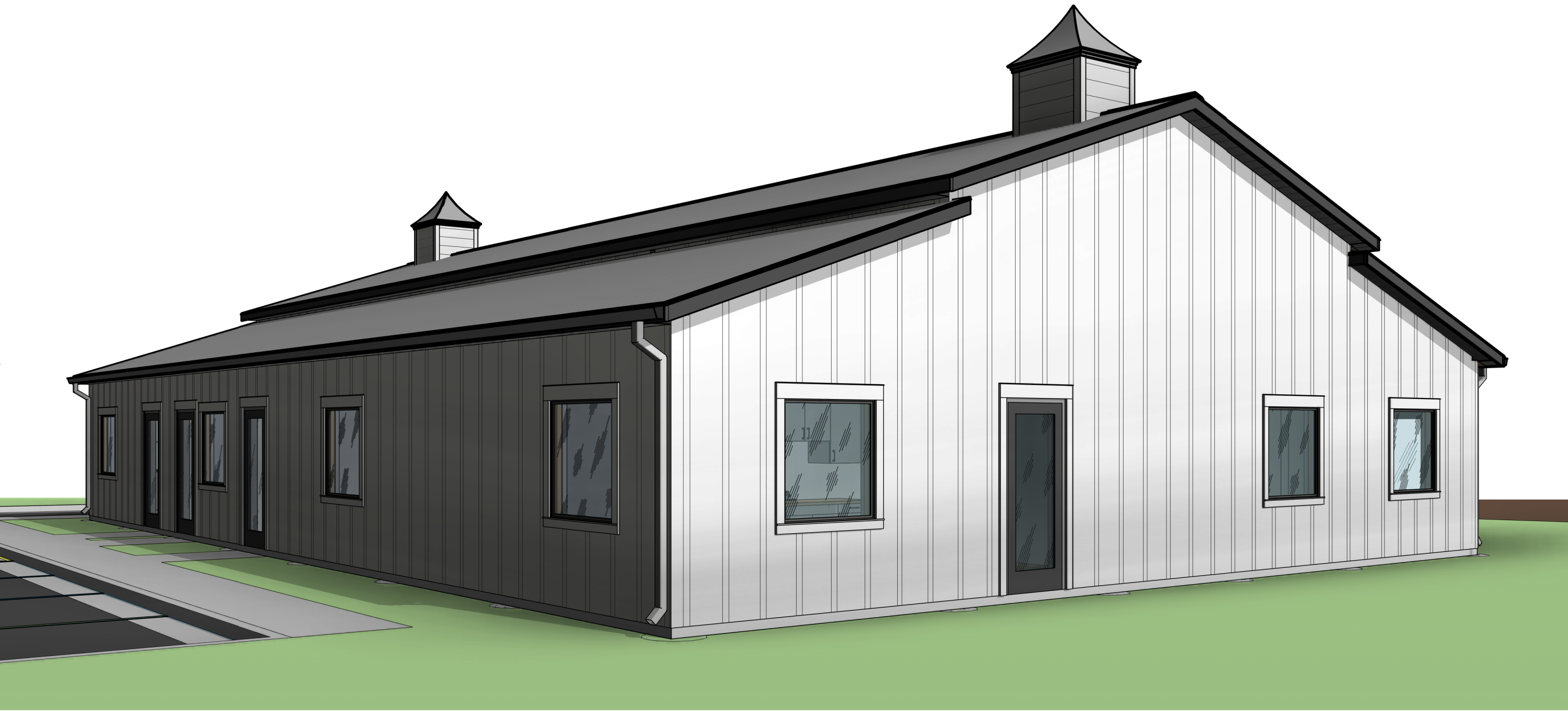
B4

3D VIEW 2

A203 SCALE:

C

D



233 SOUTH PLEASANT GROVE BLVD.
SUITE #105
PLEASANT GROVE, UTAH 84062
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core@corearch.com

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CONSULTANT INFORMATION

PROJECT TITLE AND ADDRESS
**SCHOOL HOUSE
ACADEMY**

700 SCHOOL HOUSE WAY
HEBER CITY, UT 84032

REVISIONS

△ DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 1 JULY 2024
PROJECT #: 24-072
DRAWN BY: BPJ
PM / PA: MRR

DRAWING SET STATUS
**SCHEMATIC DESIGN
DRAWINGS**

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

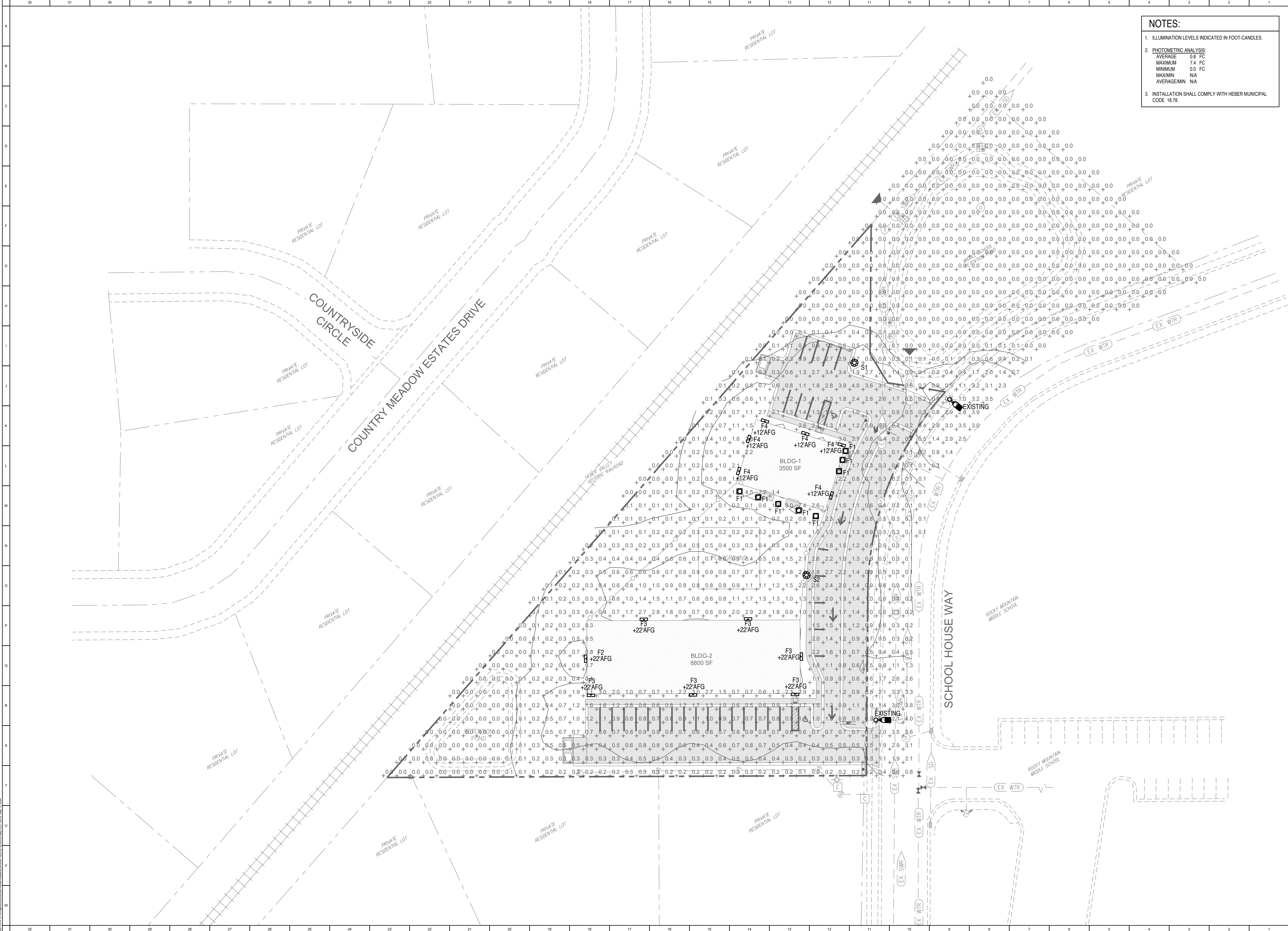
SHEET TITLE

EXTERIOR
PERSPECTIVES

SHEET NUMBER

A203

[illegible]



- NOTES:
- ILLUMINATION LEVELS INDICATED IN FOOT-CANDLES.
 - PHOTOMETRIC ANALYSIS:
AVERAGE 0.6 FC
MAXIMUM 7.4 FC
MINIMUM 0.0 FC
MAXMIN N/A
AVERAGEMIN N/A
 - INSTALLATION SHALL COMPLY WITH HEBER MUNICIPAL CODE 18.78.



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KYLE BREINHOLT
LIC.: 9857303
EXP.: 31 MARCH 2025

SCHOOL HOUSE ACADEMY

700 SCHOOL HOUSE WAY
HEBER, UTAH 84032

VISUAL SCALE = 1"

TITLE BLOCK SEGMENTS EQUAL 1" (NOT BE PHOTO REDUCED)

MARK	DESCRIPTION	DATE
1	---	---
2	---	---
3	---	---
4	---	---

DRAWING TITLE
SITE PHOTOMETRIC PLAN

DRAWN BY: KLB
CHECKED BY: KLB

PERMIT RELEASE DATE:
MAY 2024

SHEET RELEASE DATE:
13 May 2024

ES102



Date: May 13, 2024

Stevens Sales Company
2010 S. Milestone Dr. Suite A
Slc UT 84104
Phone: (801) 487-8971
Fax:

Job Name
School House Academy, Heber UT
SSCO LIGHTING24-34584
Heber UT

Bid Date
May 13, 2024

Submittal Date
May 13, 2024

Engineer:
Breinholt Power Engineering
805 S 1430 W
Lehi UT 84043



Transmittal

Stevens Sales Company
 2010 S. Milestone Dr. Suite A
 Slc UT 84104
 Phone: (801) 487-8971
From: Alli Miller

Project School House Academy, Heber UT
Quote# SSCO LIGHTING24-34584
Location Heber UT
To Breinholt Power Engineering
 805 S 1430 W
 Lehi UT 84043
 Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| ☐ Drawings | ☐ Specifications | Other: |
| ☐ Prints | ☐ Information | |
| ☐ Plans | ☒ Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| ☒ Prior Approval | ☐ Resubmittal for Approval | ☐ Record |
| ☐ Approval | ☐ Corrections | Bids due on: |
| ☐ Approval as Submitted | ☐ Your Use | Other: |
| ☐ Approval as Noted | ☐ Review and Comment | |

Type	MFG	Part
F1	Lightolier	6RN P6RDL20935NCDZ10U
F1E	Lightolier	6RNEM6 P6RDL20935NCDZ10U CAEM6TSCP
F2	Visionaire Lighting	PGRS-2-T3-16LC-3-3K-UNV-WM- STANDARD FINISH
F3	Visionaire Lighting	PGRS-2-T4-32LC-5-3K-UNV-WM- STANDARD FINISH
F3E	Visionaire Lighting	PGRS-2-T4-32LC-5-3K-UNV-WM- STANDARD FINISH-EBPL
F4	Visionaire Lighting	PGRS-2-T4-16LC-3-3K-UNV-WM- STANDARD FINISH
F4E	Visionaire Lighting	PGRS-2-T4-16LC-3-3K-UNV-WM- STANDARD FINISH-EBPL
S1	Visionaire Lighting	LSO-M-T3L-8L-3K-UNV-PTS- STANDARD FINISH-LDL
S2	Visionaire Lighting	LSO-M-T4L-11L-3K-UNV-PTS- STANDARD FINISH-LDL

Submitted by Stevens Sales Company

SSCO

EST. 1914

Stevens Sales Company

Job Name:

School House Academy, Heber UT

Engineer: Breinholt Power Engineering (Lehi)

Catalog Number:

6RN P6RDL20935NCDZ10U

Notes:

Type:

F1

SSCO LIGHTING24-34584

LIGHTOLIER

by @signify

Downlighting

LyteProfile 6"

P6R Round Downlight & Wall Wash



LED



LyteProfile downlights and wall washers provide a perfect balance of functionality with glare control. The robust and versatile UniFrame frame-in kit makes changes and updates easy to manage and install. High optical efficiency reinforced with Accurender technology provides an optimum balance of performance and quality of light. Ideal for use in a variety of applications including open office, institutional, healthcare, and retail.

Standard luminaire = Frame + Engine/Trim + Accessories (optional)

Buy American Act of 1933 (BAA)** Compliant luminaire* = Frame-BAC + Engine/Trim-BAC

* BAA compliance requires that BAC option be selected for each of frame and engine/trim. Frame and engine/trim will be ordered/ shipped together (ex: 6RN-BAC-P6RDL20935WCDZ10U-BAC). Accessories (optional) are not currently BAA-compliant.

Frame

Standard example: 6RN | BAC example: 6RN-BAC

Series	Aperture	Installation	Options
6	R		
6 Uniframe 6" Non-IC	R Round	N New construction (Non-IC)	— Universal 120/277/347V EM6 Emergency, 6W Self-Test/Self-Diagnostic (not available for BAC) ¹
		R Remodeler (Non-IC)	— Universal 120/277/347V
		A AirSeal (IC)	— Universal 120/277/347V

Engine / Trim

Standard example: P6RDL20935WCDZ10U | BAC example: P6RDL20935WCDZ10U-BAC

Series	Style	Lumen	CRI/CCT	Beam	Reflector	Flange	Dimming / Options	Voltage	Options
P6R									
P6R LyteProfile 6" round downlight	DL Downlight LW Lensed Wall Wash ³ SL Shower light ⁴ (non-conductive lens)	10 1000lm 15 1500lm 20 2000lm ⁵ 25 2500lm ⁵ 30 3000lm ⁵ 35 3500lm ⁵ 40 4000lm ⁵ 45 4500lm ⁵ 50 5000lm ⁵	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K 9D2W 3000-1800K (dim to warm) ⁷ 96T 2700-6500K (tunable white) ⁸	N Narrow M Medium W Wide ^{3,4}	CL Specular clear CC Comfort clear CD Comfort clear diffuse WH White (matte) BK Black (matte) WHAMF White (gloss antimicrobial) ⁹	— White (matte) B Black (matte) ⁹ P Polished (matches aperture) F Flangeless (requires CA6RFT) ⁹ — White (matte) B Black (matte) ⁹ F Flangeless (requires CA6RFT) ⁹ — White (gloss) F Flangeless (requires CA6RFT) ⁹	Z10 0-10V 1% Z10D20 0-10V 1% (dim to Off) (up to 3500lm) L1 Lutron LDE1 EcoSystem 1% RA Integral Interact Pro RF sensor (up to 3500lm) ¹⁰ E Forward & Reverse Phase (up to 3000lm)	U 120/277V 3 347V (Z10 only) (up to 3000lm) U 120/277V 1 120V	— None R Retrofit ¹¹ (not compatible with IEM6) IEM6 Trim mounted EM test switch (for DL style only) BAC Meets the requirements of the Buy American Act of 1933 (BAA)**

Accessories

(Not currently BAA-compliant - learn more on page 2)

SBA	Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet) ¹²
CAEM6	Field installable Bodine BSL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
CA6RFT	Mud-in ring for use in 6" round flangeless trim installations (ordered with a flangeless (F) light engine).
CAEM6TSCP	Remote switch cover plate. Order with EM6 frame for remote mounted test switch.
C6RVPWH	IP65 rated vandal proof matte white accessory mounts onto flangeless light engines (F) and non-IC (N) frame only.
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 2 for details)
7925	6" sloped ceiling adapter (refer to SCA spec sheet for slope options)

1. Emergency (EM6) frame is compatible with reflector mounted test switch when light engine is ordered with IEM6 (not compatible w/347V).

2. Chicago Plenum (LC) is not available for Buy American Compliant (BAC) configs.

3. Lensed wall wash (LW) style only available with Wide (W) beam.

4. Shower light (SL) in only available with White (WH) reflector finish, and wide (W) beam.

5. Not available with AirSeal (A) frame.

6. Not available with AirSeal (A) frame. Available with CL, CC, and CD reflector finishes only.

7. Specify 9D2W with Z10U dimming only (up to 3000lm max).
Not compatible with Z10D20 or 347V (3) options. Not available with wide (W) beam.

8. Specify 96T with Z10U or RAU dimming only (up to 2500lm max).
Not compatible with Z10D20 or 347V (3) options. Not available with wide (W) beam.

9. Consult factory with ETO request for antimicrobial reflector finish (WHAMF) and black (B) flange for all styles, and flangeless (F) for LW style.

10. Linear driver profile. See dimensional data following.
Specify only with non-IC (N) frame, not for use with LC or EM6 options.

11. Retrofits select legacy Lightolier luminaires (see pages 2 for details).

12. Requires IRT9015 IR remote and Interact Pro App for commissioning (requires above ceiling access).

** Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

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UL

US

LISTED

IC

INSULATION

CONTACT

WET

LOCATION

RoHS

COMPLIANT



ENERGY STAR

interact

ready.

Submitted On: May 13, 2024

1/11

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Submitted by Stevens Sales Company SSCO EST. 1914 Stevens Sales Company	Catalog Number: 6RN P6RDL20935NCDZ10U Notes:	Type: F1 SSCO LIGHTING24-34584
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P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Features

Optics

- Provides a 60° cutoff (physical and reflected)
- Available in wide (85°), medium (65°), and narrow (55°) beam options.
- Spun and anodized reflectors available in specular (clear), semi-specular (comfort clear and diffuse finishes. Also available in white and black painted finishes.
- Consult factory for RAL finishes

Quality of light

- Color consistency: 2 SDCM
- 90 CRI minimum (Accrenderer)

Construction (New Construction)

- Galvanized stamped steal for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13"-24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

Max ceiling thickness is 2" (51 mm).

Patented install Mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid & hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
 - Easy upgrades
 - Technology changes
 - Repairs and troubleshooting

Retrofit

- Easily updates legacy LyteProfile LED downlights to the latest technology. Includes light engine, trim, and driver mounted on cover plate that mounts to previous generations of LyteProfile LED luminaires. Order with R option code at end of light engine/trim catalog number.

Dimming

- Advance 0-10v 1% (Z10) logarithmic curve is standard. Specify D20 for factory-set dim-to-off function (consult factory for linear dimming curve).
- Lutron LDE1 (L1) EcoSystem 1%
- Electronic low voltage (E) offers forward or reverse phase dimming
- Dim to Warm (D2W):** changes CCT from 3000-1800K gradually as it dims. Use with Z10U dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K & 3000K, & ≤5SDCM at 1800K
- Tunable white (6T):** 2700K to 6500K CCT. Use with Z10U or RAU dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K, 5000K, & 6500K CCT.

Light engine

Quick connect power pack allow for easy installation and replacement from below ceiling with no need for additional wiring. This allows for:

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology.
- Lumen Maintenance: L80 at 60,000 hours.
- 347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installed step-down transformer accessory.

Emergency

Bodine BSL6 6W battery pack with self-test/ diagnostic functionality. Factory or field mounted to frame.

- For trim with integral emergency test switch, order light engine with IEM6 option (ex: P6RDL20935WCDZ10UIEM6). DL style only.
- For remote ceiling mounted test switch, order standard light engine (ex: P6RDL20935WCDZ10U). Optional accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.
- Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.
- CEC Title 24 JA8 Certified.

Options and Accessories

Sloped ceilings: Compatible with sloped ceiling adapters (see SCA spec sheet).

Flangeless mud-in ring: Use CA6RFT

For use with flangeless plaster installations.

Field Installed Emergency: Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

- CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frames. Includes remote ceiling plate for test switch. To mount test switch to trim for new construction frame, order downlight light engine with IEM6 option code (e.g. P6RDL20935WCDZ10UIEM6).

C6RVPWH: includes machined aluminum ring painted white, gasketed for IP65 protection, and impact resistant polycarbonate lens (IK10). Locks in place with discrete setscrew (key included). Available also with antimicrobial finish (C6RVPWHAMF).

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. 1/2" (25mm) hole, 4 3/8" (109mm) x 2 3/4" (69mm) rectangular. Includes two mounting screws. Required for lensed wall wash (LW) and shower light (SL) styles.

T347-75VA: Field installable 347:120V 75VA step-down transformer, attaches to knock out on frame junction box, for use with non-IC (N) or remodel (R) frames.

ENERGY STAR® exceptions

- Black finishes

Labels and Listings

- cULus listed for wet locations
- CCEA (frames with *LC suffix)
- ENERGY STAR® certified
- RoHS certified

Warranty



5 year limited warranty
Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

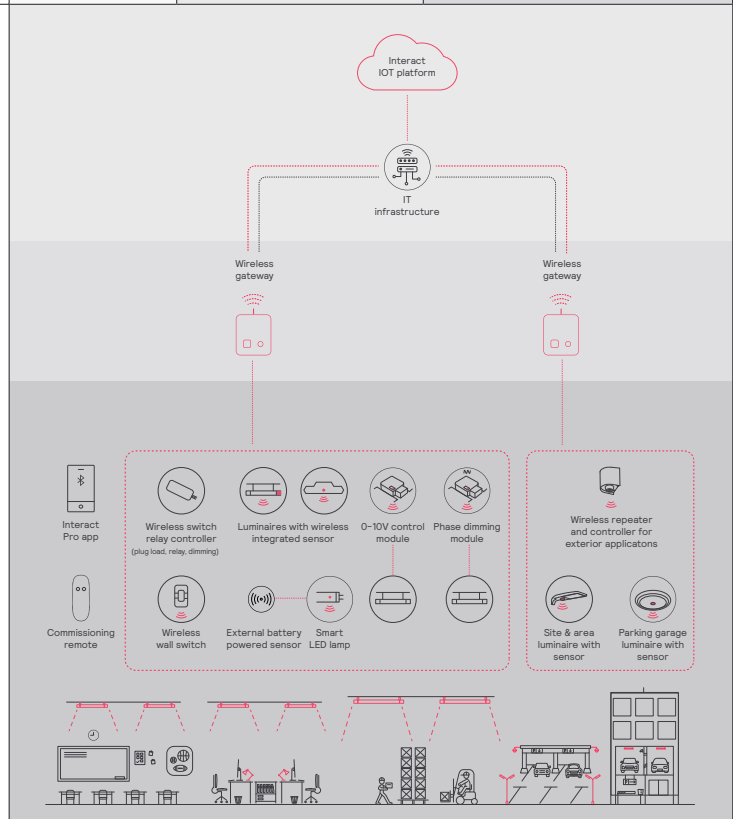
interact

	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Correlated color temperature (CCT) tuning by switch	New ✓	✓	✓
Support for sensor-based Tunable White luminaires	New ✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• Luminaires with integrated sensors	150
• Smart TLEDs	150
• Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
• Sensors	30
• Switches	50
Group level	
Recommended number of lights	40 (maximum 150)
Number of ZGP devices	5
Number of scenes	16



P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH

- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available. Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- **Power Sensing** (factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- **Power Interruption Detection** (field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:

6RN P6RDL20935NCDZ10U

Notes:

Type:**F1**

SSCO LIGHTING24-34584

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash



AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80
 Good color rendering
 and high efficacy



Standard CRI 90
 Better color rendering
 and low efficacy



AccuRender
 Best color rendering,
 color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI¹
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

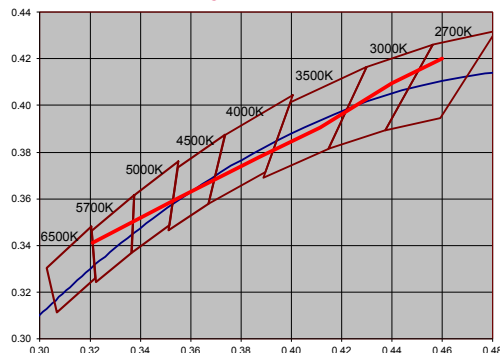
- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI R_f up to 92 TM-30
- R_g up to 67 CRI R_{f,hl} up to 91 TM-30
- G_a up to 99 CRI R_g up to 100 TM-30
- C_g up to 94 CRI R_{ca,hl} up to -5% TM-30

Achieve color balance

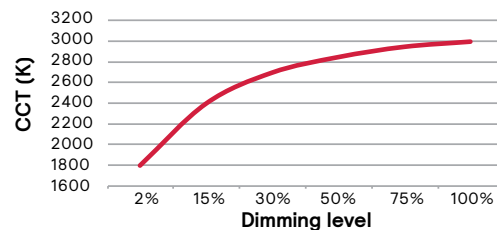
Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 2 SDCM

Tunable white binning chart



Dim-to-Warm: CCT vs Dimmed level



Submitted by Stevens Sales Company		Catalog Number: 6RN P6RDL20935NCDZ10U	Type: F1
	Job Name:	Notes:	SSCO LIGHTING24-34584
	School House Academy, Heber UT Engineer: Breinholt Power Engineering (Lehi)		

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Electrical - Static White

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

Product	Input Volts (V)	Input Freq. (Hz)	Input Current (A)	LED Drive Current (A)	Input Power (W)	LED Power (W)	THD Factor @ Max Load
P6RDL10_Z10U/3	120V	0.081A	0.23A	9.8W	8.0W	<10%	>0.9
	277V	0.036A	0.23A	10.0W	8.0W	<20%	>0.9
	347V	0.033A	0.23A	11.4W	8.0W	<30%	>0.9
P6RDL15_Z10U/3	120V	0.121A	0.35A	14.5W	12.1W	<10%	>0.9
	277V	0.053A	0.35A	14.6W	12.1W	<10%	>0.9
	347V	0.048A	0.35A	16.6W	12.1W	<25%	>0.9
P6RDL20_Z10U/3	120V	0.154A	0.45A	18.4W	15.6W	<10%	>0.9
	277V	0.067A	0.45A	18.5W	15.6W	<10%	>0.9
	347V	0.059A	0.45A	20.5W	15.6W	<20%	>0.9
P6RDL25_Z10U/3	120V	0.195A	0.58A	23.4W	19.9W	<10%	>0.9
	277V	0.085A	0.58A	23.5W	19.9W	<10%	>0.9
	347V	0.072A	0.58A	24.9W	19.9W	<20%	>0.9
P6RDL30_Z10U/3	120V	0.236A	0.70A	28.3W	24.2W	<10%	>0.9
	277V	0.102A	0.70A	28.2W	24.2W	<10%	>0.9
	347V	0.079A	0.65A	27.4W	22.5W	<15%	>0.9
P6RDL35_Z10U/3	120V	0.285A	0.85A	34.2W	29.4W	<10%	>0.9
	277V	0.123A	0.85A	34.2W	29.4W	<10%	>0.9
	347V	0.101A	0.85A	35.0W	29.4W	<10%	>0.9
P6RDL40_Z10U/3	120V	0.296A	0.88A	35.5W	30.5W	<10%	>0.9
	277V	0.128A	0.88A	35.5W	30.5W	<10%	>0.9
	347V	0.105A	0.88A	36.4W	30.5W	<10%	>0.9
P6RDL45_Z10U/3	120V	0.307A	0.92A	36.8W	31.7W	<10%	>0.9
	277V	0.133A	0.92A	36.8W	31.7W	<10%	>0.9
	347V	0.109A	0.92A	37.7W	31.7W	<10%	>0.9
P6RDL50_Z10U/3	120V	0.342A	1.02A	41.0W	35.3W	<10%	>0.9
	277V	0.148A	1.02A	41.0W	35.3W	<10%	>0.9
	347V	0.120A	1.02A	41.5W	35.3W	<10%	>0.9

Electrical - Dim-to-Warm (9D2W)

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

Product	Input Volts (V)	Input Freq. (Hz)	Input Current (A)	LED Drive Current (A)	Input Power (W)	LED Power (W)	THD Factor @ Max Load
P6RDL109D2W_Z10U	120V	0.122A	0.325	14.6W	11.7W	<10%	>0.9
P6RDL109D2W_Z10U	277V	0.056A	0.325	15.6W	11.7W	<20%	>0.9
P6RDL159D2W_Z10U	120V	0.164A	0.460	19.7W	16.6W	<10%	>0.9
P6RDL159D2W_Z10U	277V	0.076A	0.460	21.0W	16.6W	<20%	>0.9
P6RDL209D2W_Z10U	120V	0.212A	0.600	25.4W	21.6W	<10%	>0.9
P6RDL209D2W_Z10U	277V	0.094A	0.600	26.0W	21.6W	<10%	>0.9
P6RDL259D2W_Z10U	120V	0.256A	0.725	30.7W	26.1W	<15%	>0.9
P6RDL259D2W_Z10U	277V	0.111A	0.725	30.7W	26.1W	<25%	>0.8
P6RDL309D2W_Z10U	120V	0.300A	0.850	36.0W	30.6W	<15%	>0.9
P6RDL309D2W_Z10U	277V	0.130A	0.850	36.0W	30.6W	<25%	>0.8

Electrical - Tunable White (96T)

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

Product	Input Volts (V)	Input Freq. (Hz)	Input Current (A)	LED Drive Current (A)	Input Power (W)	LED Power (W)	THD Factor @ Max Load
P6RDL1096T_Z10U	120V	0.080A	0.220	9.5W	7.9W	<15%	>0.9
P6RDL1096T_Z10U	277V	0.037A	0.220	10.2W	7.9W	<15%	>0.8
P6RDL1596T_Z10U	120V	0.119A	0.332	14.2W	12.0W	<15%	>0.9
P6RDL1596T_Z10U	277V	0.055A	0.332	15.1W	12.0W	<15%	>0.8
P6RDL2096T_Z10U	120V	0.158A	0.447	18.9W	16.1W	<15%	>0.9
P6RDL2096T_Z10U	277V	0.073A	0.447	20.1W	16.1W	<15%	>0.9
P6RDL2596T_Z10U	120V	0.200A	0.566	24.0W	20.4W	<15%	>0.9
P6RDL2596T_Z10U	277V	0.091A	0.566	25.2W	20.4W	<15%	>0.9
P6RDL3096T_Z10U	120V	0.241A	0.692	29.0W	24.9W	<15%	>0.9
P6RDL3096T_Z10U	277V	0.110A	0.692	30.4W	24.9W	<10%	>0.9

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:

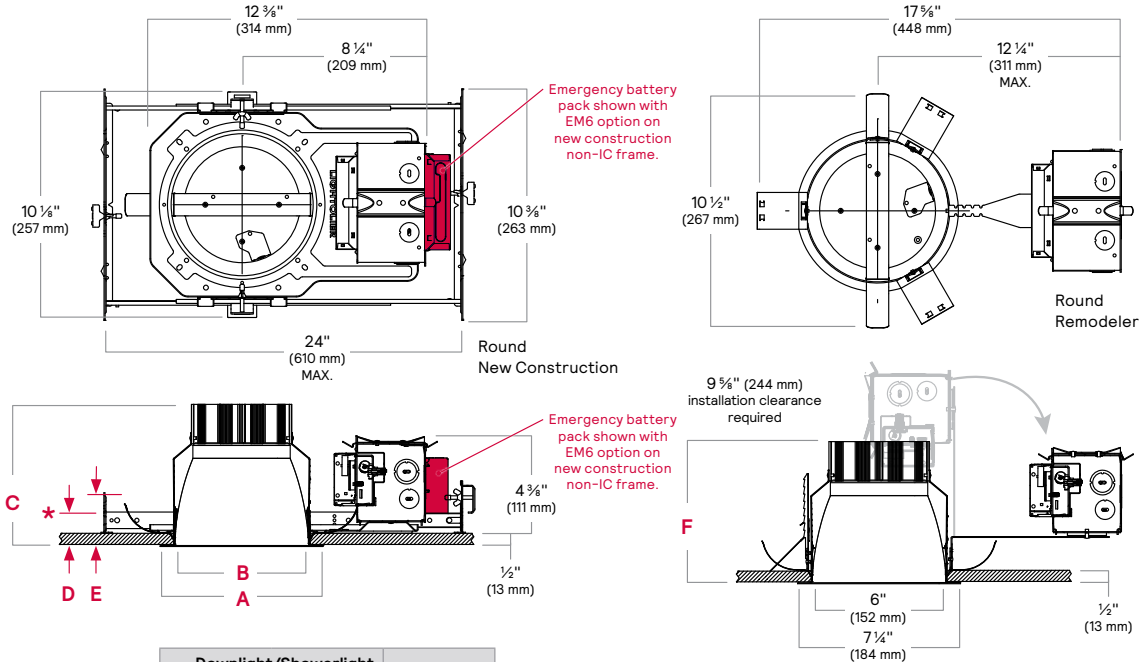
6RN P6RDL20935NCDZ10U

Notes:**Type:****F1**

SSCO LIGHTING24-34584

P6R LyteProfile 6"

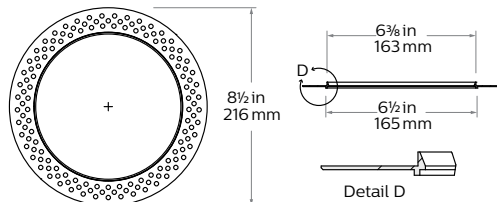
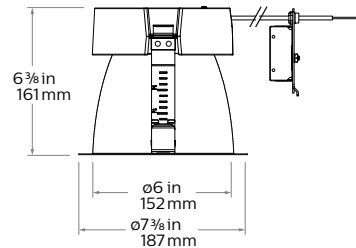
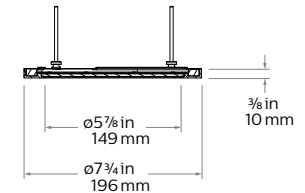
Round Downlight & Lensed Wall Wash

New construction

	Downlight/Showerlight		Lensed Wall Wash
	1000-3500lm	4000-5000lm	
A	7 1/4" (184mm)	7 1/4" (184mm)	7 1/4" (184mm)
B	6" (152mm)	6" (152mm)	6" (152mm)
C	4 1/2" (116mm)	6 3/8" (160mm)	4 1/4" (102mm)
D	2 3/8" (60mm)	2 3/8" (60mm)	2 3/8" (65mm)
E	3 3/8" (85mm)	3 3/8" (85mm)	N/A
F	5" (127mm)	6 3/8" (160mm)	4 3/8" (124mm)

* Center point location
for integral emergency
test switch (IEM6)

Lower end of LW lens is 3/16" (5mm) above flange.

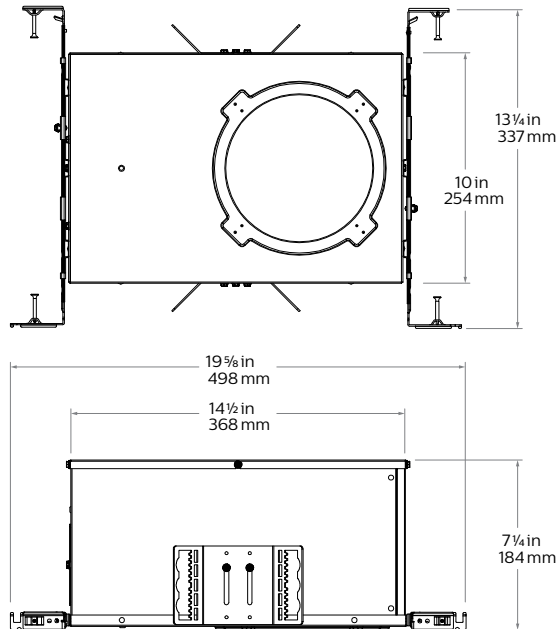
Flangeless mud-in ring (CA6RFT) accessory**Retrofit (R) with round trim****Vandal Proof (VP) accessory**

Submitted by Stevens Sales Company  SSCO EST. 1914 Stevens Sales Company	Job Name: School House Academy, Heber UT Engineer: Breinholt Power Engineering (Lehi)	Catalog Number: 6RN P6RDL20935NCDZ10U Notes:	Type: F1 SSCO LIGHTING24-34584
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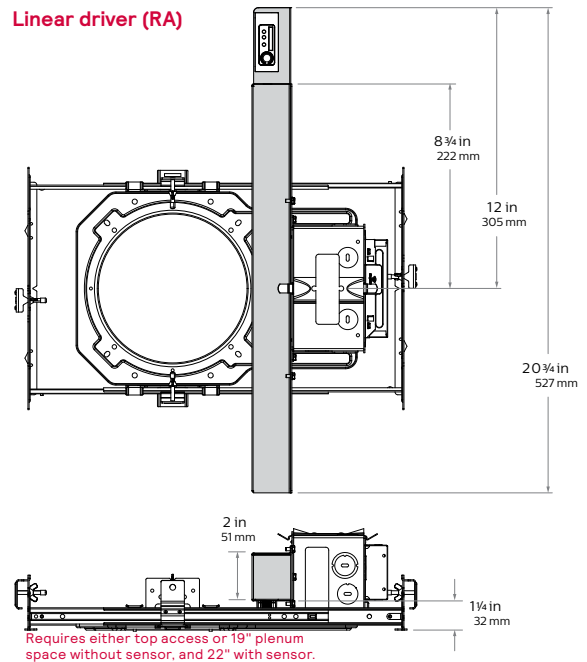
P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

AirSeal (A)



Linear driver (RA)



Submitted by Stevens Sales Company 	Job Name: School House Academy, Heber UT Engineer: Breinholt Power Engineering (Lehi)	Catalog Number: 6RN P6RDL20935NCDZ10U Notes:	Type: F1 SSCO LIGHTING24-34584
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P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Reflectors



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Comfort clear (CC): Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



Comfort clear diffuse (CD): Slightly diffuse clear finish, which eliminates iridescence and reduces the mirror image effect inherent with a specular finish.



Vandal proof (VP): Provides an elegant solution for vandal resistant needs. One piece machined aluminum ring with impact resistant clear lens. Flangeless (F) flange must be ordered. Provides the luminaire with an IK10 impact and IP65 rating.



White (-): (matte) Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



Black (BK): Painted matte finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



Shower light (SL): Wet location rated shower light applicable in any installation requiring dead front trims, interior or exterior non-corrosive applications, or where a diffused lens at the ceiling is required (non-conductive).

Flanges



White (-): (matte) Provides the smoothest transition to ceilings when off.



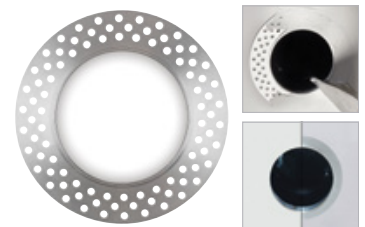
Black (BK): Painted matte finish that provides the lowest aperture brightness possible.



Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).



Flangeless (F): (flush-mount) Creates a flush, virtually seamless transition from aperture to ceiling.



Mud-in ring (FT): Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

P6R LyteProfile 6"

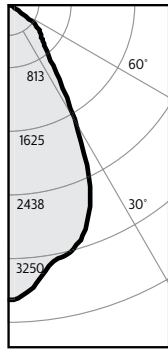
Round Downlight & Lensed Wall Wash

Adjustment Factors

Finish	CRI/CCT	Lumens
CL = 100%	90CRI 4000K = 106%	5000lm = 167%
CC = 86%	90CRI 3500K = 104%	4500lm = 150%
CD = 91%	90CRI 3000K = 100%	4000lm = 133%
WH = 90%	90CRI 2700K = 96%	3500lm = 117%
BK = 54%		3000lm = 100%

Downlight, Narrow beam, 29W LED, 90CRI, 3000K

Candela Curves



Report¹:
P6RDL30930NCLZ10U.ies

Output Lms: 2992lms
Spacing Crit.: 0.92
Beam Angle: 58°
Input Watts²: 28.8W
Efficacy: 103.9lm/w
CCT³: 3000K
CRI: 90min

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	1861	62.2%
0-40	2415	80.7%
0-60	2982	99.7%
0-90	2992	100.0%

Angle	Mean CP	Lms
0	3015	
5	2903	
10	2670	268
15	2585	
20	2369	722
25	1942	
30	1357	871
35	854	
40	597	554
45	489	
50	399	378
55	213	
60	32	188
65	5	
70	3	8
75	2	
80	1	2
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	121	4.6'
6'	84	5.5'
7'	62	6.4'
8'	47	7.4'
9'	37	8.3'

*Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	134.0	1.28
6'	88.0	0.84
7'	63.0	0.60
8'	53.0	0.50
9'	42.0	0.40

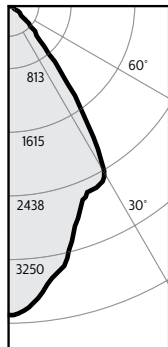
38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	97	92
1	113	110	107	105	108	103	104	100	100	96	90	93	88	85			
2	107	101	97	93	100	92	96	90	93	88	85						
3	101	94	88	84	92	83	90	82	87	81	78						
4	95	87	81	76	85	76	83	75	81	74	71						
5	90	80	74	69	79	69	78	68	76	68	66						
6	85	75	68	64	74	63	72	63	71	63	61						
7	80	70	63	59	69	59	68	58	67	58	56						
8	76	65	59	54	65	54	64	54	63	54	52						
9	72	61	55	51	61	51	60	50	59	50	49						
10	68	58	52	47	57	47	56	47	56	47	45						

Downlight, Medium beam, 29W LED, 90CRI, 3000K

Candela Curves



Report¹:
P6RDL30930MCLZ10U.ies

Output Lms: 3118lms
Spacing Crit.: 0.9
Beam Angle: 66°
Input Watts²: 28.8W
Efficacy: 108.3lm/w
CCT³: 3000K
CRI: 90min

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	1935	62.1%
0-40	2734	87.7%
0-60	3112	99.8%
0-90	3118	100.0%

Angle	Mean CP	Lms
0	3161	
5	3048	
10	2789	282
15	2498	
20	2178	698
25	2065	
30	1942	955
35	1298	
40	650	799
45	349	
50	224	288
55	93	
60	13	90
65	4	
70	2	5
75	1	
80	1	2
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	126	4.5'
6'	88	5.4'
7'	65	6.3'
8'	49	7.2'
9'	39	8.1'

*Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	140.0	1.28
6'	92.0	0.84
7'	66.0	0.60
8'	55.0	0.50
9'	44.0	0.40

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	116	116	111	111	106	106	100	106	106	100	97	92	
1	113	110	107	105	108	103	104	100	100	96	90	93	88	85			
2	107	101	97	93	100	92	96	90	93	88	85						
3	101	94	88	84	92	83	90	82	87	81	78						
4	95	87	81	76	85	76	83	75	81	74	71						
5	90	80	74	69	79	69	78	68	76	68	66						
6	85	75	68	64	74	63	72	63	71	63	61						
7	80	70	63	59	69	59	68	58	67	58	56						
8	76	65	59	54	65	54	64	54	63	54	52						
9	72	61	55	51	61	51	60	50	59	50	49						
10	68	58	52	47	57	47	56	47	56	47	45						

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

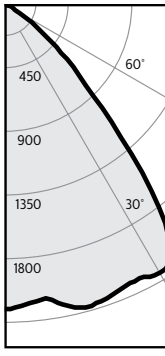
P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

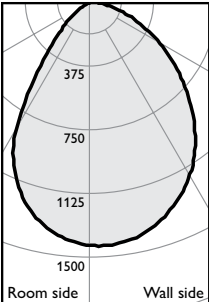
Adjustment Factors

Finish	CRI/CCT	Lumens
CL = 100%	90CRI 4000K = 106%	5000lm = 167%
CC = 86%	90CRI 3500K = 104%	4500lm = 150%
CD = 91%	90CRI 3000K = 100%	4000lm = 133%
WH = 90%	90CRI 2700K = 96%	3500lm = 117%
BK = 54%		3000lm = 100%

Downlight, Wide beam, 29W LED, 90CRI, 3000K

Candela Curves		Zonal lumens & percentages		Angle	Mean CP	Lms	Single unit data			Coefficients of utilization																			
		Zone	Lumens	%Luminaire	0	1720		Height to lighted plane	Initial center beam foot-candles	Beam dia. (ft)*	Ceiling	80%				70%				50%				30%				0%	
		0-30	1464	47.3%	10	1710	162	5'	69	7.1'	Wall	70	50	30	10	50	10	50	10	50	10	0	0						
		0-40	2427	78.4%	15	1770		6'	48	8.5'																			
		0-60	3088	99.8%	20	1750	498	7'	35	9.9'																			
		0-90	3095	100.0%	25	1725		8'	27	11.4'																			
					30	1752	804	9'	21	12.8'																			
					35	1611		* Beam diameter is where foot-candles drop to 50% of maximum.																					
					40	1114	963	Multiple unit data - RCR 2																					
					45	646		Spacing on center	Initial center beam foot-candles	Watts per sq.ft.																			
					50	379	520	5'	137.0	1.25																			
					55	139	141	6'	90.0	0.82																			
					60	17		7'	64.0	0.59																			
					65	4		8'	53.0	0.49																			
					70	3	6	9'	43.0	0.39																			
					75	1		38"x38"x10" Room, Workplane 2.5' above floor, 80/50/20% Reflectances																					
					80	1	2																						
					85	0																							
					90	0	0																						
						</																							

Lensed Wall Wash, Wide beam, 29W LED, 90CRI, 3000K

Candela Curve		Report: P6RLW30930WCLZ10U.IES	Multiple unit data Footcandles on wall				Multiple unit data Footcandles on wall				Multiple unit data Footcandles on wall			
		Output Lms: 2517lms Input Watts ² : 29.4W Efficacy: 85.6lm/w CCT ³ : 3000K CRI: 90min	2' from wall 3' on ctr.				3' from wall 3' on ctr.				3' from wall 4' on ctr.			
	Room side		1	57	47	57	1	25	24	25	1	22	17	22
	Wall side		2	87	79	87	2	49	48	49	2	41	35	41
			3	73	71	73	3	55	55	55	3	44	40	44
			4	54	54	54	4	50	51	50	4	39	36	39
			5	38	39	38	5	41	42	41	5	31	30	31
			6	28	28	28	6	32	33	32	6	25	24	25
			7	21	22	21	7	26	26	26	7	19	19	19
			8	16	17	16	8	20	21	20	8	15	15	15
			9	13	13	13	9	16	17	16	9	12	12	12
			10	11	11	11	10	14	14	14	10	10	10	10
			12	9	9	9	12	11	12	11	12	9	8	9
			14	8	8	8	14	10	10	10	14	7	7	7

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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Submitted by Stevens Sales Company

SSCO

EST. 1914

Stevens Sales Company

Job Name:

School House Academy, Heber UT

Engineer: Breinholt Power Engineering (Lehi)

Catalog Number:

6RNEM6 P6RDL20935NCDZ10U

CAEM6TSCP

Notes:

Type:

F1E

SSCO LIGHTING24-34584

LIGHTOLIER

by @signify

Downlighting

LyteProfile 6"

P6R Round Downlight & Wall Wash



LED

LyteProfile downlights and wall washers provide a perfect balance of functionality with glare control. The robust and versatile UniFrame frame-in kit makes changes and updates easy to manage and install. High optical efficiency reinforced with Accurender technology provides an optimum balance of performance and quality of light. Ideal for use in a variety of applications including open office, institutional, healthcare, and retail.

Standard luminaire = Frame + Engine/Trim + Accessories (optional)

Buy American Act of 1933 (BAA)** Compliant luminaire* = Frame-BAC + Engine/Trim-BAC

* BAA compliance requires that BAC option be selected for each of frame and engine/trim. Frame and engine/trim will be ordered/ shipped together (ex: 6RN-BAC-P6RDL20935WCDZ10U-BAC). Accessories (optional) are not currently BAA-compliant.

Frame

Standard example: 6RN | BAC example: 6RN-BAC

Series	Aperture	Installation	Options
6	R		
6 Uniframe 6" Non-IC	R Round	N New construction (Non-IC)	— Universal 120/277/347V EM6 Emergency, 6W Self-Test/Self-Diagnostic (not available for BAC) ¹
		R Remodeler (Non-IC)	— Universal 120/277/347V
		A AirSeal (IC)	— Universal 120/277/347V

Engine / Trim

Standard example: P6RDL20935WCDZ10U | BAC example: P6RDL20935WCDZ10U-BAC

Series	Style	Lumen	CRI/CCT	Beam	Reflector	Flange	Dimming / Options	Voltage	Options
P6R									
P6R LyteProfile 6" round downlight	DL Downlight LW Lensed Wall Wash ³ SL Shower light ⁴ (non-conductive lens)	10 1000lm 15 1500lm 20 2000lm ⁵ 25 2500lm ⁵ 30 3000lm ⁵ 35 3500lm ⁵ 40 4000lm ⁵ 45 4500lm ⁵ 50 5000lm ⁵	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K 9D2W 3000-1800K (dim to warm) ⁷ 96T 2700-6500K (tunable white) ⁸	N Narrow M Medium W Wide ^{3,4}	CL Specular clear CC Comfort clear CD Comfort clear diffuse WH White (matte) BK Black (matte) WHAMF White (gloss antimicrobial) ⁹	— White (matte) B Black (matte) ⁹ P Polished (matches aperture) F Flangeless (requires CA6RFT) ⁹ — White (matte) B Black (matte) ⁹ F Flangeless (requires CA6RFT) ⁹ — White (gloss) F Flangeless (requires CA6RFT) ⁹	Z10 0-10V 1% Z10D20 0-10V 1% (dim to Off) (up to 3500lm) L1 Lutron LDE1 EcoSystem 1% RA Integral Interact Pro RF sensor (up to 3500lm) ¹⁰ E Forward & Reverse Phase (up to 3000lm)	U 120/277V 3 347V (Z10 only) (up to 3000lm) U 120/277V 1 120V	— None R Retrofit ¹¹ (not compatible with IEM6) IEM6 Trim mounted EM test switch (for DL style only) BAC Meets the requirements of the Buy American Act of 1933 (BAA)**

Accessories

(Not currently BAA-compliant - learn more on page 2)

SBA	Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet) ¹²
CAEM6	Field installable Bodine BSL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
CA6RFT	Mud-in ring for use in 6" round flangeless trim installations (ordered with a flangeless (F) light engine).
CAEM6TSCP	Remote switch cover plate. Order with EM6 frame for remote mounted test switch.
C6RVPWH	IP65 rated vandal proof matte white accessory mounts onto flangeless light engines (F) and non-IC (N) frame only.
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 2 for details)
7925	6" sloped ceiling adapter (refer to SCA spec sheet for slope options)

1. Emergency (EM6) frame is compatible with reflector mounted test switch when light engine is ordered with IEM6 (not compatible w/347V).

2. Chicago Plenum (LC) is not available for Buy American Compliant (BAC) configs.

3. Lensed wall wash (LW) style only available with Wide (W) beam.

4. Shower light (SL) in only available with White (WH) reflector finish, and wide (W) beam.

5. Not available with AirSeal (A) frame.

6. Not available with AirSeal (A) frame. Available with CL, CC, and CD reflector finishes only.

7. Specify 9D2W with Z10U dimming only (up to 3000lm max).
Not compatible with Z10D20 or 347V (3) options. Not available with wide (W) beam.

8. Specify 96T with Z10U or RAU dimming only (up to 2500lm max).
Not compatible with Z10D20 or 347V (3) options. Not available with wide (W) beam.

9. Consult factory with ETO request for antimicrobial reflector finish (WHAMF) and black (B) flange for all styles, and flangeless (F) for LW style.

10. Linear driver profile. See dimensional data following.
Specify only with non-IC (N) frame, not for use with LC or EM6 options.

11. Retrofits select legacy Lightolier luminaires (see pages 2 for details).

12. Requires IRT9015 IR remote and Interact Pro App for commissioning (requires above ceiling access).

** Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

LyteProfile-6in-P6R 11/23 page 1 of 11

UL

US

LISTED

IC

INSULATION

CONTACT

WET

LOCATION

RoHS

COMPLIANT

ENERGY STAR

interact

ready.

Submitted On: May 13, 2024

1/11

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Index Page

Submitted by Stevens Sales Company		Catalog Number: 6RNEM6 P6RDL20935NCDZ10U CAEM6TSCP Notes:	Type: F1E SSCO LIGHTING24-34584
SSCO EST. 1914 Stevens Sales Company	Job Name: School House Academy, Heber UT Engineer: Breinholt Power Engineering (Lehi)		

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Features

Optics

- Provides a 60° cutoff (physical and reflected)
- Available in wide (85°), medium (65°), and narrow (55°) beam options.
- Spun and anodized reflectors available in specular (clear), semi-specular (comfort clear and diffuse finishes. Also available in white and black painted finishes.
- Consult factory for RAL finishes

Quality of light

- Color consistency: 2 SDCM
- 90 CRI minimum (Accrender)

Construction (New Construction)

- Galvanized stamped steal for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13"-24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

Max ceiling thickness is 2" (51 mm).

Patented install Mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid & hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
 - Easy upgrades
 - Technology changes
 - Repairs and troubleshooting

Retrofit

- Easily updates legacy LyteProfile LED downlights to the latest technology. Includes light engine, trim, and driver mounted on cover plate that mounts to previous generations of LyteProfile LED luminaires. Order with R option code at end of light engine/trim catalog number.

Dimming

- Advance 0-10v 1% (Z10) logarithmic curve is standard. Specify D20 for factory-set dim-to-off function (consult factory for linear dimming curve).
- Lutron LDE1 (L1) EcoSystem 1%
- Electronic low voltage (E) offers forward or reverse phase dimming
- Dim to Warm (D2W):** changes CCT from 3000-1800K gradually as it dims. Use with Z10U dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K & 3000K, & ≤5SDCM at 1800K
- Tunable white (6T):** 2700K to 6500K CCT. Use with Z10U or RAU dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K, 5000K, & 6500K CCT.

Light engine

Quick connect power pack allow for easy installation and replacement from below ceiling with no need for additional wiring. This allows for:

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology.
- Lumen Maintenance: L80 at 60,000 hours.
- 347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installed step-down transformer accessory.

Emergency

Bodine BSL6 6W battery pack with self-test/ diagnostic functionality. Factory or field mounted to frame.

- For trim with integral emergency test switch, order light engine with IEM6 option (ex: P6RDL20935WCDZ10UIEM6). DL style only.
- For remote ceiling mounted test switch, order standard light engine (ex: P6RDL20935WCDZ10U). Optional accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.
- Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.
- CEC Title 24 JA8 Certified.

Options and Accessories

Sloped ceilings: Compatible with sloped ceiling adapters (see SCA spec sheet).

Flangeless mud-in ring: Use CA6RFT

For use with flangeless plaster installations.

Field Installed Emergency: Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

- CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frames. Includes remote ceiling plate for test switch. To mount test switch to trim for new construction frame, order downlight light engine with IEM6 option code (e.g. P6RDL20935WCDZ10UIEM6).

C6RVPWH: includes machined aluminum ring painted white, gasketed for IP65 protection, and impact resistant polycarbonate lens (IK10). Locks in place with discrete setscrew (key included). Available also with antimicrobial finish (C6RVPWHAMF).

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. 1/2" (25mm) hole, 4 3/8" (109mm) x 2 3/4" (69mm) rectangular. Includes two mounting screws. Required for lensed wall wash (LW) and shower light (SL) styles.

T347-75VA: Field installable 347:120V 75VA step-down transformer, attaches to knock out on frame junction box, for use with non-IC (N) or remodel (R) frames.

ENERGY STAR® exceptions

- Black finishes

Labels and Listings

- cULus listed for wet locations
- CCEA (frames with *LC suffix)
- ENERGY STAR® certified
- RoHS certified

Warranty



5 year limited warranty
Visit [Signify.com/warranties](https://www.signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

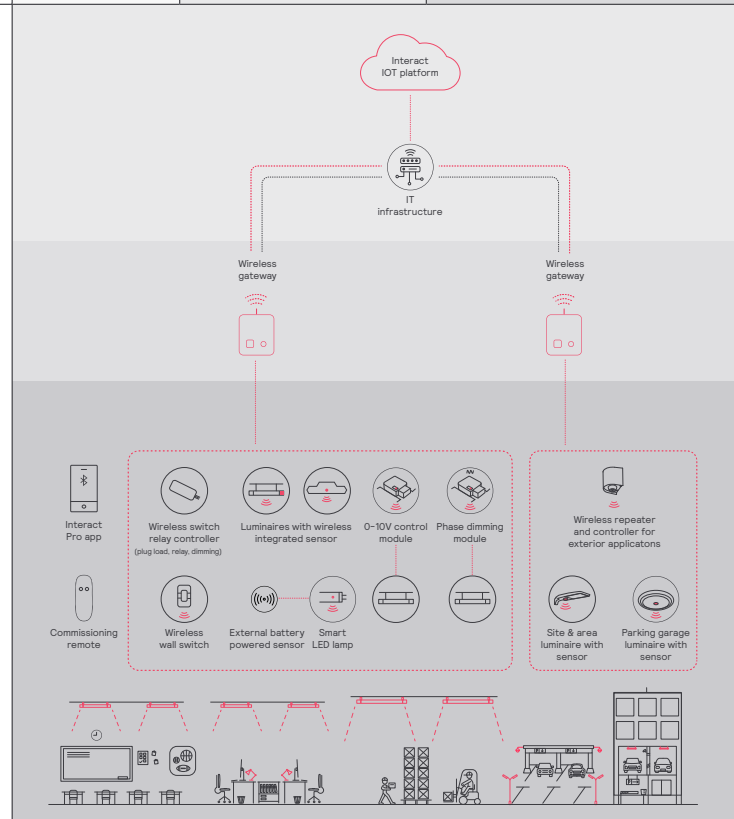
interact

		Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning		✓	✓	✓
Bluetooth and ZigBee enabled		✓	✓	✓
Motion sensing and daylight harvesting		✓	✓	✓
Integration with 0-10V and phase dimming fixtures		✓	✓	✓
Code compliance		✓	✓	✓
Granular dimming and dwell time		✓	✓	✓
Correlated color temperature (CCT) tuning by switch	New	✓	✓	✓
Support for sensor-based Tunable White luminaires	New	✓	✓	✓
Energy reporting and monitoring			✓	✓
Scheduling			✓	✓
Demand response			✓	✓
BMS integration (BACnet)				✓
Floor plan visualization				✓
IoT sensors for wellness				✓
IoT Apps for productivity				✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• Luminaires with integrated sensors	150
• Smart TLEDS	150
• Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
• Sensors	30
• Switches	50
Group level	
Recommended number of lights	40 (maximum 150)
Number of ZGP devices	5
Number of scenes	16



P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH

- For more information on Interact visit:
interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact visit:
interact-lighting.com/interactproscalablesystem

Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available. Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit:
interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- **Power Sensing** (factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- **Power Interruption Detection** (field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 6RNEM6 P6RDL20935NCDZ10U
 CAEM6TSCP

Notes:

Type:**F1E**

SSCO LIGHTING24-34584

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash



AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80
 Good color rendering
 and high efficacy



Standard CRI 90
 Better color rendering
 and low efficacy



AccuRender
 Best color rendering,
 color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI¹
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

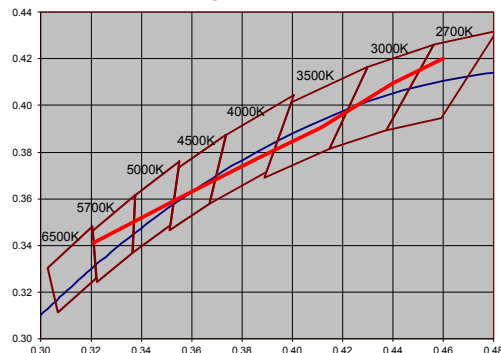
- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI R_f up to 92 TM-30
- R_g up to 67 CRI R_{f,hl} up to 91 TM-30
- G_a up to 99 CRI R_g up to 100 TM-30
- C_g up to 94 CRI R_{ca,hl} up to -5% TM-30

Achieve color balance

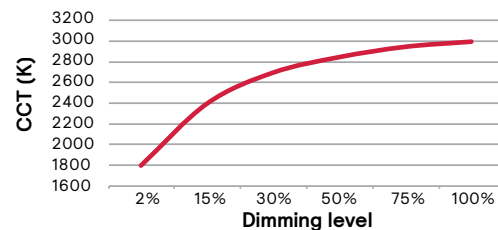
Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 2 SDCM

Tunable white binning chart



Dim-to-Warm: CCT vs Dimmed level



Submitted by Stevens Sales Company		Catalog Number: 6RNEM6 P6RDL20935NCDZ10U CAEM6TSCP Notes:	Type: F1E SSCO LIGHTING24-34584
	Job Name: School House Academy, Heber UT Engineer: Breinholt Power Engineering (Lehi)		

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Electrical - Static White

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

Product	Input Volts (V)	Input Freq. (Hz)	Input Current (A)	LED Drive Current (A)	Input Power (W)	LED Power (W)	THD Factor @ Max Load
P6RDL10_Z10U/3	120V	0.081A	0.23A	9.8W	8.0W	<10%	>0.9
	277V	0.036A	0.23A	10.0W	8.0W	<20%	>0.9
	347V	0.033A	0.23A	11.4W	8.0W	<30%	>0.9
P6RDL15_Z10U/3	120V	0.121A	0.35A	14.5W	12.1W	<10%	>0.9
	277V	0.053A	0.35A	14.6W	12.1W	<10%	>0.9
	347V	0.048A	0.35A	16.6W	12.1W	<25%	>0.9
P6RDL20_Z10U/3	120V	0.154A	0.45A	18.4W	15.6W	<10%	>0.9
	277V	0.067A	0.45A	18.5W	15.6W	<10%	>0.9
	347V	0.059A	0.45A	20.5W	15.6W	<20%	>0.9
P6RDL25_Z10U/3	120V	0.195A	0.58A	23.4W	19.9W	<10%	>0.9
	277V	0.085A	0.58A	23.5W	19.9W	<10%	>0.9
	347V	0.072A	0.58A	24.9W	19.9W	<20%	>0.9
P6RDL30_Z10U/3	120V	0.236A	0.70A	28.3W	24.2W	<10%	>0.9
	277V	0.102A	0.70A	28.2W	24.2W	<10%	>0.9
	347V	0.079A	0.65A	27.4W	22.5W	<15%	>0.9
P6RDL35_Z10U/3	120V	0.285A	0.85A	34.2W	29.4W	<10%	>0.9
	277V	0.123A	0.85A	34.2W	29.4W	<10%	>0.9
	347V	0.101A	0.85A	35.0W	29.4W	<10%	>0.9
P6RDL40_Z10U/3	120V	0.296A	0.88A	35.5W	30.5W	<10%	>0.9
	277V	0.128A	0.88A	35.5W	30.5W	<10%	>0.9
	347V	0.105A	0.88A	36.4W	30.5W	<10%	>0.9
P6RDL45_Z10U/3	120V	0.307A	0.92A	36.8W	31.7W	<10%	>0.9
	277V	0.133A	0.92A	36.8W	31.7W	<10%	>0.9
	347V	0.109A	0.92A	37.7W	31.7W	<10%	>0.9
P6RDL50_Z10U/3	120V	0.342A	1.02A	41.0W	35.3W	<10%	>0.9
	277V	0.148A	1.02A	41.0W	35.3W	<10%	>0.9
	347V	0.120A	1.02A	41.5W	35.3W	<10%	>0.9

Electrical - Dim-to-Warm (9D2W)

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

Product	Input Volts (V)	Input Freq. (Hz)	Input Current (A)	LED Drive Current (A)	Input Power (W)	LED Power (W)	THD Factor @ Max Load
P6RDL109D2W_Z10U	120V	0.122A	0.325	14.6W	11.7W	<10%	>0.9
P6RDL109D2W_Z10U	277V	0.056A	0.325	15.6W	11.7W	<20%	>0.9
P6RDL159D2W_Z10U	120V	0.164A	0.460	19.7W	16.6W	<10%	>0.9
P6RDL159D2W_Z10U	277V	0.076A	0.460	21.0W	16.6W	<20%	>0.9
P6RDL209D2W_Z10U	120V	0.212A	0.600	25.4W	21.6W	<10%	>0.9
P6RDL209D2W_Z10U	277V	0.094A	0.600	26.0W	21.6W	<10%	>0.9
P6RDL259D2W_Z10U	120V	0.256A	0.725	30.7W	26.1W	<15%	>0.9
P6RDL259D2W_Z10U	277V	0.111A	0.725	30.7W	26.1W	<25%	>0.8
P6RDL309D2W_Z10U	120V	0.300A	0.850	36.0W	30.6W	<15%	>0.9
P6RDL309D2W_Z10U	277V	0.130A	0.850	36.0W	30.6W	<25%	>0.8

Electrical - Tunable White (96T)

Input frequency of 50/60Hz, Power Factor @ Max Load >0.9

Product	Input Volts (V)	Input Freq. (Hz)	Input Current (A)	LED Drive Current (A)	Input Power (W)	LED Power (W)	THD Factor @ Max Load
P6RDL1096T_Z10U	120V	0.080A	0.220	9.5W	7.9W	<15%	>0.9
P6RDL1096T_Z10U	277V	0.037A	0.220	10.2W	7.9W	<15%	>0.8
P6RDL1596T_Z10U	120V	0.119A	0.332	14.2W	12.0W	<15%	>0.9
P6RDL1596T_Z10U	277V	0.055A	0.332	15.1W	12.0W	<15%	>0.8
P6RDL2096T_Z10U	120V	0.158A	0.447	18.9W	16.1W	<15%	>0.9
P6RDL2096T_Z10U	277V	0.073A	0.447	20.1W	16.1W	<15%	>0.9
P6RDL2596T_Z10U	120V	0.200A	0.566	24.0W	20.4W	<15%	>0.9
P6RDL2596T_Z10U	277V	0.091A	0.566	25.2W	20.4W	<15%	>0.9
P6RDL3096T_Z10U	120V	0.241A	0.692	29.0W	24.9W	<15%	>0.9
P6RDL3096T_Z10U	277V	0.110A	0.692	30.4W	24.9W	<10%	>0.9

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 6RNEM6 P6RDL20935NCDZ10U
 CAEM6TSCP

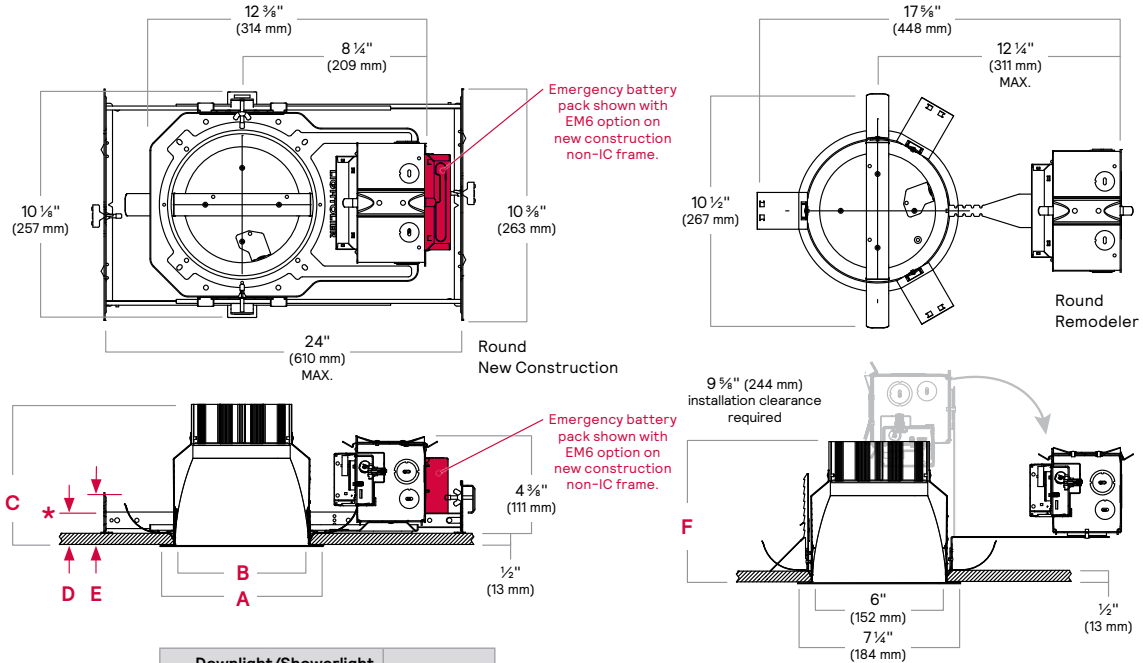
Notes:

Type:**F1E**

SSCO LIGHTING24-34584

P6R LyteProfile 6"

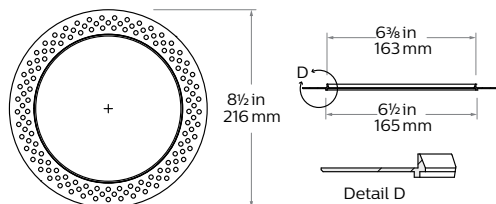
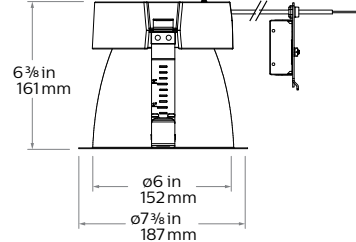
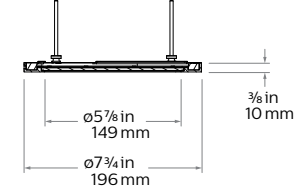
Round Downlight & Lensed Wall Wash

New construction

	Downlight/Showerlight		Lensed Wall Wash
	1000-3500lm	4000-5000lm	
A	7 1/4" (184mm)	7 1/4" (184mm)	7 1/4" (184mm)
B	6" (152mm)	6" (152mm)	6" (152mm)
C	4 1/2" (116mm)	6 3/8" (160mm)	4 1/4" (102mm)
D	2 3/8" (60mm)	2 3/8" (60mm)	2 3/8" (65mm)
E	3 3/8" (85mm)	3 3/8" (85mm)	N/A
F	5" (127mm)	6 3/8" (160mm)	4 3/8" (124mm)

* Center point location
for integral emergency
test switch (IEM6)

Lower end of LW lens is 3/16" (5mm) above flange.

Flangeless mud-in ring (CA6RFT) accessory**Retrofit (R) with round trim****Vandal Proof (VP) accessory**

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 6RNEM6 P6RDL20935NCDZ10U
 CAEM6TSCP

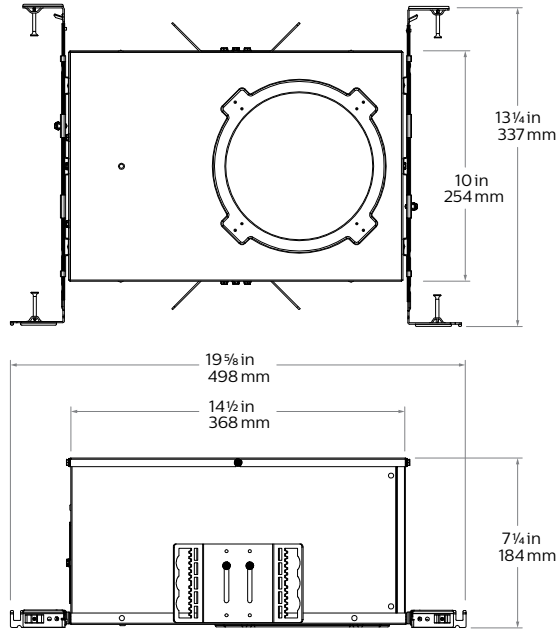
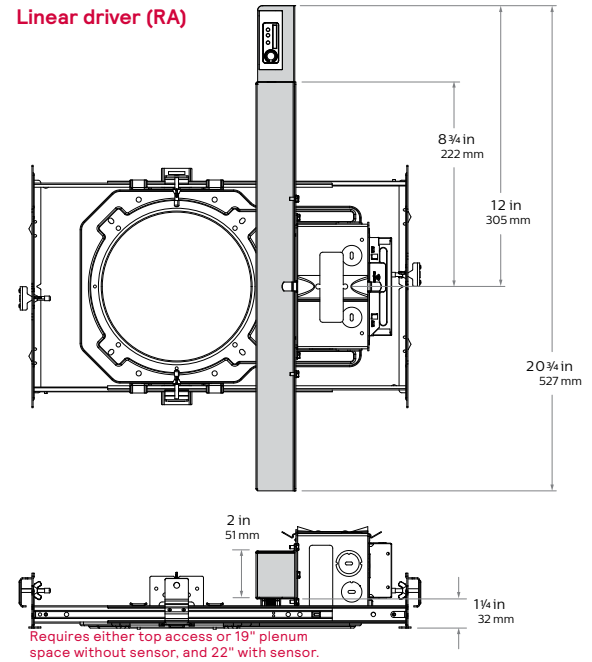
Notes:

Type:**F1E**

SSCO LIGHTING24-34584

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

AirSeal (A)**Linear driver (RA)**

P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

Reflectors



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Comfort clear (CC): Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



Comfort clear diffuse (CD): Slightly diffuse clear finish, which eliminates iridescence and reduces the mirror image effect inherent with a specular finish.



Vandal proof (VP): Provides an elegant solution for vandal resistant needs. One piece machined aluminum ring with impact resistant clear lens. Flangeless (F) flange must be ordered. Provides the luminaire with an IK10 impact and IP65 rating.



White (-): (matte) Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



Black (BK): Painted matte finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



Shower light (SL): Wet location rated shower light applicable in any installation requiring dead front trims, interior or exterior non-corrosive applications, or where a diffused lens at the ceiling is required (non-conductive).

Flanges



White (-): (matte) Provides the smoothest transition to ceilings when off.



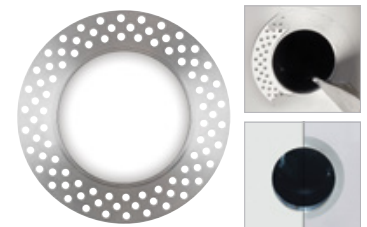
Black (BK): Painted matte finish that provides the lowest aperture brightness possible.



Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).



Flangeless (F): (flush-mount) Creates a flush, virtually seamless transition from aperture to ceiling.



Mud-in ring (FT): Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

P6R LyteProfile 6"

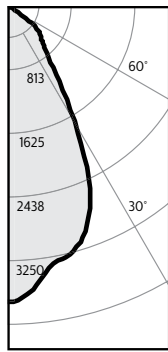
Round Downlight & Lensed Wall Wash

Adjustment Factors

Finish	CRI/CCT	Lumens
CL = 100%	90CRI 4000K = 106%	5000lm = 167%
CC = 86%	90CRI 3500K = 104%	4500lm = 150%
CD = 91%	90CRI 3000K = 100%	4000lm = 133%
WH = 90%	90CRI 2700K = 96%	3500lm = 117%
BK = 54%		3000lm = 100%

Downlight, Narrow beam, 29W LED, 90CRI, 3000K

Candela Curves



Report¹:
P6RDL30930NCLZ10U.ies

Output Lms: 2992lms
Spacing Crit.: 0.92
Beam Angle: 58°
Input Watts²: 28.8W
Efficacy: 103.9lm/w
CCT³: 3000K
CRI: 90min

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	1861	62.2%
0-40	2415	80.7%
0-60	2982	99.7%
0-90	2992	100.0%

Angle	Mean CP	Lms
0	3015	
5	2903	
10	2670	268
15	2585	
20	2369	722
25	1942	
30	1357	871
35	854	
40	597	554
45	489	
50	399	378
55	213	
60	32	188
65	5	
70	3	8
75	2	
80	1	2
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	121	4.6'
6'	84	5.5'
7'	62	6.4'
8'	47	7.4'
9'	37	8.3'

*Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	134.0	1.28
6'	88.0	0.84
7'	63.0	0.60
8'	53.0	0.50
9'	42.0	0.40

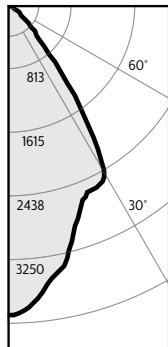
38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	97	92
1	113	110	107	105	108	103	104	100	100	96	90	93	88	85			
2	107	101	97	93	100	92	96	90	93	88	85						
3	101	94	88	84	92	83	90	82	87	81	78						
4	95	87	81	76	85	76	83	75	81	74	71						
5	90	80	74	69	79	69	78	68	76	68	66						
6	85	75	68	64	74	63	72	63	71	63	61						
7	80	70	63	59	69	59	68	58	67	58	56						
8	76	65	59	54	65	54	64	54	63	54	52						
9	72	61	55	51	61	51	60	50	59	50	49						
10	68	58	52	47	57	47	56	47	56	47	45						

Downlight, Medium beam, 29W LED, 90CRI, 3000K

Candela Curves



Report¹:
P6RDL30930MCLZ10U.ies

Output Lms: 3118lms
Spacing Crit.: 0.9
Beam Angle: 66°
Input Watts²: 28.8W
Efficacy: 108.3lm/w
CCT³: 3000K
CRI: 90min

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	1935	62.1%
0-40	2734	87.7%
0-60	3112	99.8%
0-90	3118	100.0%

Angle	Mean CP	Lms
0	3161	
5	3048	
10	2789	282
15	2498	
20	2178	698
25	2065	
30	1942	955
35	1298	
40	650	799
45	349	
50	224	288
55	93	
60	13	90
65	4	
70	2	5
75	1	
80	1	2
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	126	4.5'
6'	88	5.4'
7'	65	6.3'
8'	49	7.2'
9'	39	8.1'

*Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	140.0	1.28
6'	92.0	0.84
7'	66.0	0.60
8'	55.0	0.50
9'	44.0	0.40

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
Room Cavity Ratio	0	119	119	119	116	116	111	111	106	106	100	106	106	100	97	92	
1	113	110	107	105	108	103	104	100	100	96	90	93	88	85			
2	107	101	97	93	100	92	96	90	93	88	85						
3	101	94	88	84	92	83	90	82	87	81	78						
4	95	87	81	76	85	76	83	75	81	74	71						
5	90	80	74	69	79	69	78	68	76	68	66						
6	85	75	68	64	74	63	72	63	71	63	61						
7	80	70	63	59	69	59	68	58	67	58	56						
8	76	65	59	54	65	54	64	54	63	54	52						
9	72	61	55	51	61	51	60	50	59	50	49						
10	68	58	52	47	57	47	56	47	56	47	45						

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

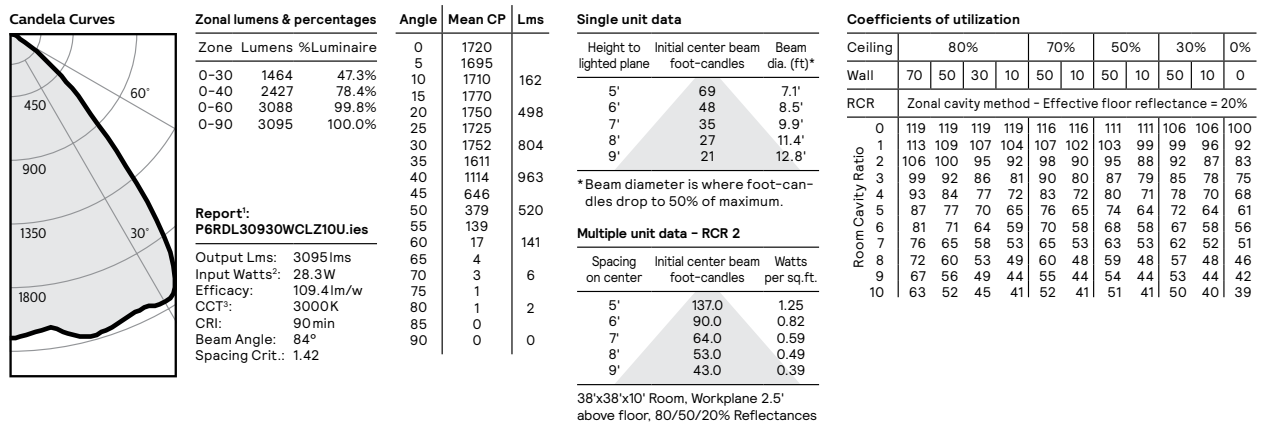
P6R LyteProfile 6"

Round Downlight & Lensed Wall Wash

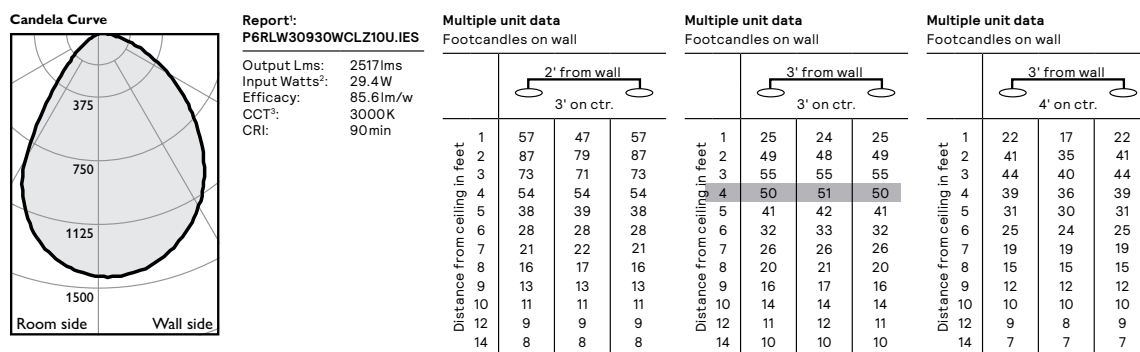
Adjustment Factors

Finish	CRI/CCT	Lumens
CL = 100%	90CRI 4000K = 106%	5000lm = 167%
CC = 86%	90CRI 3500K = 104%	4500lm = 150%
CD = 91%	90CRI 3000K = 100%	4000lm = 133%
WH = 90%	90CRI 2700K = 96%	3500lm = 117%
BK = 54%		3000lm = 100%

Downlight, Wide beam, 29W LED, 90CRI, 3000K



Lensed Wall Wash, Wide beam, 29W LED, 90CRI, 3000K



1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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PGRS-2 LED Specifications



Project Name:

Catalog Number:

Type:

The **PGRS-2 LED** luminaire from Visionaire combines contemporary design with new LED technology; while maintaining a traditional fixture image. The LED performance and Life are maximized by the unique integral aluminum heat sink. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

The LED housing is cast aluminum with internal heat sink for maximum heat dissipation; with 16 or 32 LEDs. The cast aluminum driver compartment allows the driver to operate cooler for long life.

Three optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **PGRS-2 LED** series is an exceptional choice for parking garage lighting and other wall mount applications.

Ordering Information

MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
PGRS-2	T2 Type 2	16LC	3 350mA	3K 3000K	UNV 120-277V	WM Wall Mount	BZ Bronze	PC-120 Button Type Photocell	EBPL Emergency Battery Pack 120V-277V Only
	T3 Type 3	32LC	5 530mA	4K 4000K	8 347V		BK Black	PC-208 Button Type Photocell	VWC Visionaire Wireless Controls Consult Factory
	T4 Type 4		7 700mA	5K 5000K	5 480V		SBK Smooth Black	PC-240 Button Type Photocell	
							WH White	PC-277 Button Type Photocell	BP Back Plate
							SWH Smooth White		
							GP Graphite	WSC-8 Motion Sensor 8' Mounting Height	EBPL-CLD Cold Weather Emergency Battery Pack *Universal Voltage only Rated for -20° C to 50° C *Not available in Up Light Orientation
							GY Grey	WSC-20 Motion Sensor 9-20' Mounting Height	
							SL Silver Metallic	WSC-40 Motion Sensor 21-40' Mounting Height	
							CC Custom Color		

WSC options will require (1) FSIR 100 remote for programming

Features & Specifications

PGRS-2

Housing

Heavy duty cast aluminum housing with internal heat sink for maximum heat dissipation. Silicone gasket is used for weather tight operation.

Mounting

A Wall Mount bracket can be secured directly to a 4"-5" recessed junction box.

Thermal Management

The PGRS-2 series provides excellent thermal management by mounting the LEDs to the substantial heat sink within the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.

Optical System

- The highest lumen output LEDs are utilized. High-performance acrylic optics feature industry leading Type II, III and IV optical distributions. Acrylic optics are impact-resistant and rated to 94 percent translucence.
- L70 life of our LEDs is rated over 100,000 hours (for 700 mA), The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- CRI values are 70.

Quali-Guard® Finish

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness.
- All finishes are available in standard and custom colors.
 - Finish is guaranteed for five (5) years.

Electrical Assembly

The PGRS-2 LED series is supplied with a choice of 350, 530 or 700 high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Power factor of 90%.
- Rated for -40°C operations.
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Button Style Photocell
- Watt Stopper FSP-211
- Motion Sensor
- Emergency Battery Pack
- Cold Weather Emergency Battery Pack (Rated for -20°C)
- Visionaire Wireless Controls
 - Enables high end trim
 - Based on Zigbee wireless communication protocol

Listings

- PGRS-2 is cUL listed, suitable for wet locations.
- IP66 Rated
- Powder Coated Tough™
- DLC Listed
- IDA listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

PGRS-2 - Electrical Load (A)							
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347V	480V
PGRS-2-T3-16LC-350MA	18	0.14	0.08	0.07	0.06	0.05	0.04
PGRS-2-T3-16LC-530MA	26	0.22	0.12	0.11	0.09	0.07	0.05
PGRS-2-T3-16LC-700MA	37	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-350MA	34	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-530MA	53	0.43	0.25	0.22	0.19	0.15	0.11
PGRS-2-T3-32LC-700MA	70	0.58	0.33	0.29	0.25	0.20	0.14

Motion Sensor Default Setting									
FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

* Settings can be field modified with the FSIR-100 Programming remote

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 PGRS-2-T3-16LC-3-3K-UNV-WM-
 STANDARD FINISH

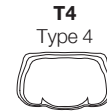
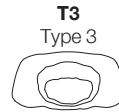
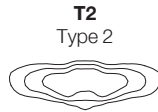
Notes:

Type:**F2**

SSCO LIGHTING24-34584

PGRS-2 LED Specifications

Photometric Optical Summary



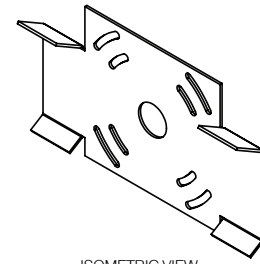
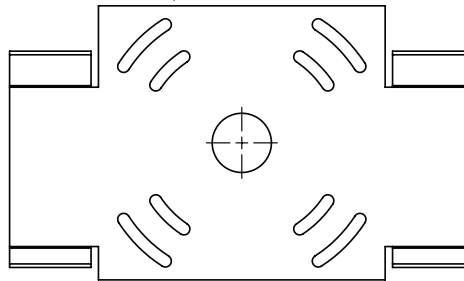
Dimensions

Width: PGRS-2 17.70"

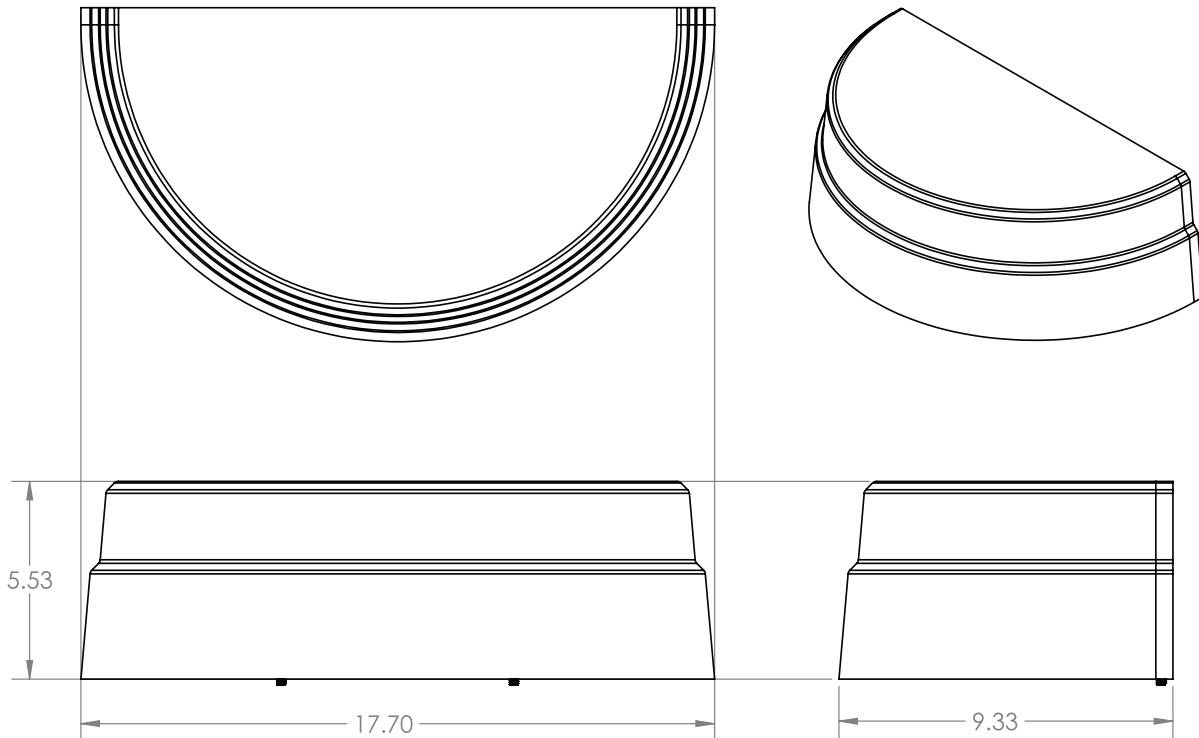
Height: PGRS-2 5.53"

Depth: PGRS-2 9.33"

Weight: 20 LBS

 Bracket Wall Mount Support
 Compatible with 4" and 5" J-Box


ISOMETRIC VIEW



LED Specifications **PGRS-2**

PGRS-2 3K LUMEN DATA						PGRS-2 3K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2332	2334	2322	17	32	350	4532	4506	4308	34
	530	3253	3256	3239	26		530	6387	6351	6072	52
	700	4068	4071	4050	34		700	7800	7756	7415	69
PGRS-2 4K LUMEN DATA						PGRS-2 4K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2172	2173	2162	17	32	350	4510	4485	4288	34
	530	3029	3032	3016	26		530	6357	6321	6043	52
	700	3788	3791	3771	34		700	7763	7719	7380	69
PGRS-2 5K LUMEN DATA						PGRS-2 5K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2226	2227	2216	17	32	350	4481	4456	4260	34
	530	3105	3107	3091	26		530	6316	6280	6004	52
	700	3882	3885	3865	34		700	7713	7669	7332	69
PGRS-2 3K LPW DATA						PGRS-2 3K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	137	137	137	17	32	350	133	133	127	34
	530	125	125	125	26		530	123	122	117	52
	700	120	120	119	34		700	113	112	107	69
PGRS-2 4K LPW DATA						PGRS-2 4K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	128	128	127	17	32	350	133	132	126	34
	530	116	117	116	26		530	122	122	116	52
	700	111	112	111	34		700	113	112	107	69
PGRS-2 5K LPW DATA						PGRS-2 5K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	131	131	130	17	32	350	132	131	125	34
	530	119	120	119	26		530	121	121	115	52
	700	114	114	114	34		700	112	111	106	69
PGRS-2 3K BUG DATA						PGRS-2 3K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 4K BUG DATA						PGRS-2 4K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 5K BUG DATA						PGRS-2 5K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69

PGRS-2 LED Specifications



Project Name:

Catalog Number:

Type:

The **PGRS-2 LED** luminaire from Visionaire combines contemporary design with new LED technology; while maintaining a traditional fixture image. The LED performance and Life are maximized by the unique integral aluminum heat sink. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

The LED housing is cast aluminum with internal heat sink for maximum heat dissipation; with 16 or 32 LEDs. The cast aluminum driver compartment allows the driver to operate cooler for long life.

Three optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **PGRS-2 LED** series is an exceptional choice for parking garage lighting and other wall mount applications.

Ordering Information

MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
PGRS-2	T2 Type 2	16LC	3 350mA	3K 3000K	UNV 120-277V	WM Wall Mount	BZ Bronze	PC-120 Button Type Photocell	EBPL Emergency Battery Pack 120V-277V Only
	T3 Type 3	32LC	5 530mA	4K 4000K	8 347V		BK Black	PC-208 Button Type Photocell	VWC Visionaire Wireless Controls Consult Factory
	T4 Type 4		7 700mA	5K 5000K	5 480V		SBK Smooth Black	PC-240 Button Type Photocell	
							WH White	PC-277 Button Type Photocell	BP Back Plate
							SWH Smooth White	WSC-8 Motion Sensor 8' Mounting Height	EBPL-CLD Cold Weather Emergency Battery Pack *Universal Voltage only Rated for -20° C to 50° C *Not available in Up Light Orientation
							GP Graphite	WSC-20 Motion Sensor 9-20' Mounting Height	
							GY Grey		
							SL Silver Metallic		
							CC Custom Color	WSC-40 Motion Sensor 21-40' Mounting Height	

WSC options will require (1) FSIR 100 remote for programming

Features & Specifications

PGRS-2

Housing

Heavy duty cast aluminum housing with internal heat sink for maximum heat dissipation. Silicone gasket is used for weather tight operation.

Mounting

A Wall Mount bracket can be secured directly to a 4"-5" recessed junction box.

Thermal Management

The PGRS-2 series provides excellent thermal management by mounting the LEDs to the substantial heat sink within the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.

Optical System

- The highest lumen output LEDs are utilized. High-performance acrylic optics feature industry leading Type II, III and IV optical distributions. Acrylic optics are impact-resistant and rated to 94 percent translucence.
- L70 life of our LEDs is rated over 100,000 hours (for 700 mA), The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- CRI values are 70.

Quali-Guard® Finish

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness.
- All finishes are available in standard and custom colors.
 - Finish is guaranteed for five (5) years.

Electrical Assembly

The PGRS-2 LED series is supplied with a choice of 350, 530 or 700 high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Power factor of 90%.
- Rated for -40°C operations.
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Button Style Photocell
- Watt Stopper FSP-211
- Motion Sensor
- Emergency Battery Pack
- Cold Weather Emergency Battery Pack (Rated for -20°C)
- Visionaire Wireless Controls
 - Enables high end trim
 - Based on Zigbee wireless communication protocol

Listings

- PGRS-2 is cUL listed, suitable for wet locations.
- IP66 Rated
- Powder Coated Tough™
- DLC Listed
- IDA listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

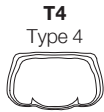
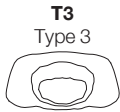
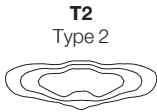
PGRS-2 - Electrical Load (A)							
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347V	480V
PGRS-2-T3-16LC-350MA	18	0.14	0.08	0.07	0.06	0.05	0.04
PGRS-2-T3-16LC-530MA	26	0.22	0.12	0.11	0.09	0.07	0.05
PGRS-2-T3-16LC-700MA	37	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-350MA	34	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-530MA	53	0.43	0.25	0.22	0.19	0.15	0.11
PGRS-2-T3-32LC-700MA	70	0.58	0.33	0.29	0.25	0.20	0.14

Motion Sensor Default Setting									
FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

* Settings can be field modified with the FSIR-100 Programming remote

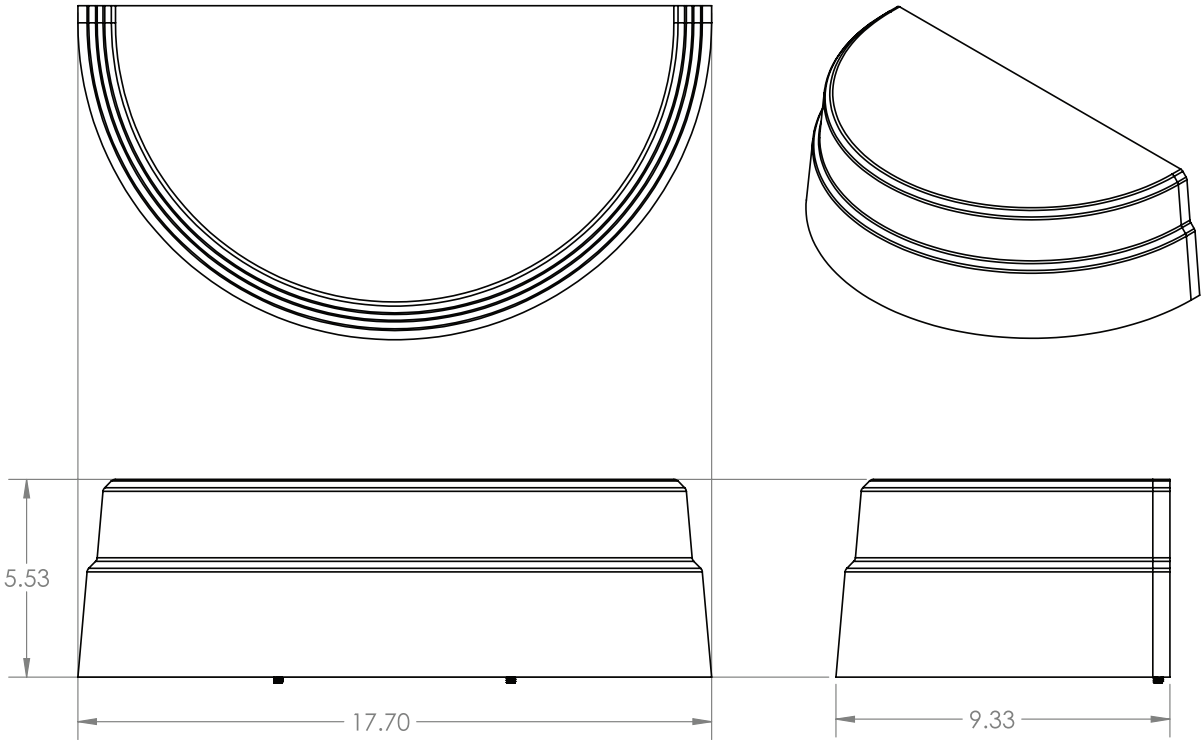
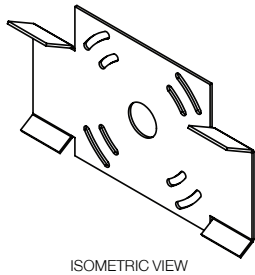
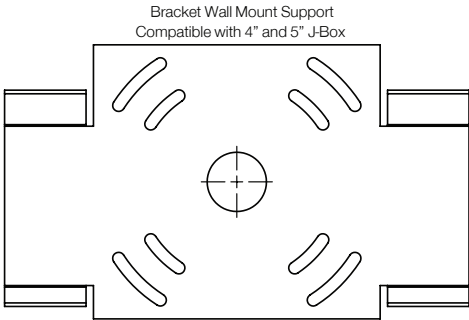
PGRS-2 LED Specifications

Photometric Optical Summary



Dimensions

Width:	PGRS-2 17.70"
Height:	PGRS-2 5.53"
Depth:	PGRS-2 9.33"
Weight:	20 LBS



LED Specifications **PGRS-2**

PGRS-2 3K LUMEN DATA						PGRS-2 3K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2332	2334	2322	17	32	350	4532	4506	4308	34
	530	3253	3256	3239	26		530	6387	6351	6072	52
	700	4068	4071	4050	34		700	7800	7756	7415	69
PGRS-2 4K LUMEN DATA						PGRS-2 4K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2172	2173	2162	17	32	350	4510	4485	4288	34
	530	3029	3032	3016	26		530	6357	6321	6043	52
	700	3788	3791	3771	34		700	7763	7719	7380	69
PGRS-2 5K LUMEN DATA						PGRS-2 5K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2226	2227	2216	17	32	350	4481	4456	4260	34
	530	3105	3107	3091	26		530	6316	6280	6004	52
	700	3882	3885	3865	34		700	7713	7669	7332	69
PGRS-2 3K LPW DATA						PGRS-2 3K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	137	137	137	17	32	350	133	133	127	34
	530	125	125	125	26		530	123	122	117	52
	700	120	120	119	34		700	113	112	107	69
PGRS-2 4K LPW DATA						PGRS-2 4K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	128	128	127	17	32	350	133	132	126	34
	530	116	117	116	26		530	122	122	116	52
	700	111	112	111	34		700	113	112	107	69
PGRS-2 5K LPW DATA						PGRS-2 5K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	131	131	130	17	32	350	132	131	125	34
	530	119	120	119	26		530	121	121	115	52
	700	114	114	114	34		700	112	111	106	69
PGRS-2 3K BUG DATA						PGRS-2 3K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 4K BUG DATA						PGRS-2 4K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 5K BUG DATA						PGRS-2 5K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69

PGRS-2 LED Specifications



Project Name:

Catalog Number:

Type:

The **PGRS-2 LED** luminaire from Visionaire combines contemporary design with new LED technology; while maintaining a traditional fixture image. The LED performance and Life are maximized by the unique integral aluminum heat sink. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

The LED housing is cast aluminum with internal heat sink for maximum heat dissipation; with 16 or 32 LEDs. The cast aluminum driver compartment allows the driver to operate cooler for long life.

Three optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **PGRS-2 LED** series is an exceptional choice for parking garage lighting and other wall mount applications.

Ordering Information

MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
PGRS-2	T2 Type 2	16LC	3 350mA	3K 3000K	UNV 120-277V	WM Wall Mount	BZ Bronze	PC-120 Button Type Photocell	EBPL Emergency Battery Pack 120V-277V Only
	T3 Type 3	32LC	5 530mA	4K 4000K	8 347V		BK Black	PC-208 Button Type Photocell	VWC Visionaire Wireless Controls Consult Factory
	T4 Type 4		7 700mA	5K 5000K	5 480V		SBK Smooth Black	PC-240 Button Type Photocell	
							WH White	PC-277 Button Type Photocell	BP Back Plate
							SWH Smooth White		
							GP Graphite	WSC-8 Motion Sensor 8' Mounting Height	EBPL-CLD Cold Weather Emergency Battery Pack *Universal Voltage only Rated for -20° C to 50° C *Not available in Up Light Orientation
							GY Grey	WSC-20 Motion Sensor 9-20' Mounting Height	
							SL Silver Metallic	WSC-40 Motion Sensor 21-40' Mounting Height	
							CC Custom Color		

Features & Specifications

PGRS-2

Housing

Heavy duty cast aluminum housing with internal heat sink for maximum heat dissipation. Silicone gasket is used for weather tight operation.

Mounting

A Wall Mount bracket can be secured directly to a 4"-5" recessed junction box.

Thermal Management

The PGRS-2 series provides excellent thermal management by mounting the LEDs to the substantial heat sink within the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.

Optical System

- The highest lumen output LEDs are utilized. High-performance acrylic optics feature industry leading Type II, III and IV optical distributions. Acrylic optics are impact-resistant and rated to 94 percent translucence.
- L70 life of our LEDs is rated over 100,000 hours (for 700 mA), The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- CRI values are 70.

Quali-Guard® Finish

The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness.

- All finishes are available in standard and custom colors.
- Finish is guaranteed for five (5) years.

Electrical Assembly

The PGRS-2 LED series is supplied with a choice of 350, 530 or 700 high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Power factor of 90%.
- Rated for -40°C operations.
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Button Style Photocell
- Watt Stopper FSP-211
- Motion Sensor
- Emergency Battery Pack
- Cold Weather Emergency Battery Pack (Rated for -20°C)
- Visionaire Wireless Controls
 - Enables high end trim
 - Based on Zigbee wireless communication protocol

Listings

- PGRS-2 is cUL listed, suitable for wet locations.
- IP66 Rated
- Powder Coated Tough™
- DLC Listed
- IDA listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

PGRS-2 - Electrical Load (A)							
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347V	480V
PGRS-2-T3-16LC-350MA	18	0.14	0.08	0.07	0.06	0.05	0.04
PGRS-2-T3-16LC-530MA	26	0.22	0.12	0.11	0.09	0.07	0.05
PGRS-2-T3-16LC-700MA	37	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-350MA	34	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-530MA	53	0.43	0.25	0.22	0.19	0.15	0.11
PGRS-2-T3-32LC-700MA	70	0.58	0.33	0.29	0.25	0.20	0.14

Motion Sensor Default Setting									
FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

* Settings can be field modified with the FSIR-100 Programming remote

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 PGRS-2-T4-32LC-5-3K-UNV-WM-
 STANDARD FINISH-EBPL

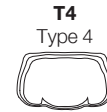
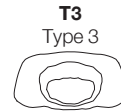
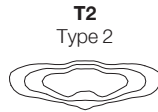
Notes:

Type:**F3E**

SSCO LIGHTING24-34584

PGRS-2 LED Specifications

Photometric Optical Summary



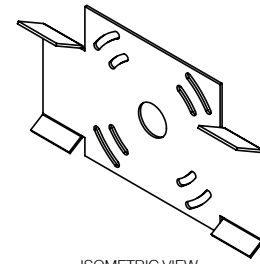
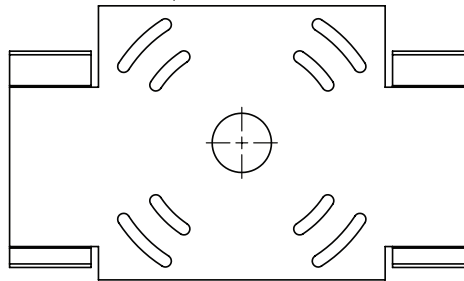
Dimensions

Width: PGRS-2 17.70"

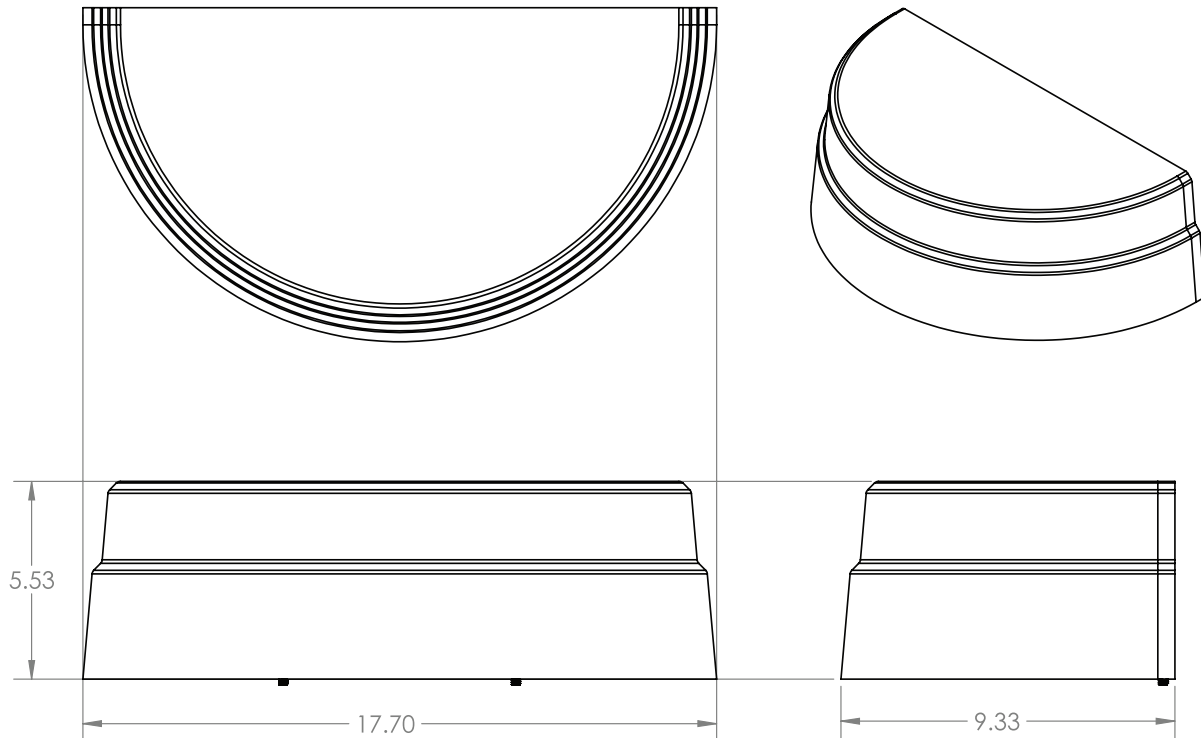
Height: PGRS-2 5.53"

Depth: PGRS-2 9.33"

Weight: 20 LBS

 Bracket Wall Mount Support
 Compatible with 4" and 5" J-Box


ISOMETRIC VIEW



LED Specifications **PGRS-2**

PGRS-2 3K LUMEN DATA						PGRS-2 3K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2332	2334	2322	17	32	350	4532	4506	4308	34
	530	3253	3256	3239	26		530	6387	6351	6072	52
	700	4068	4071	4050	34		700	7800	7756	7415	69
PGRS-2 4K LUMEN DATA						PGRS-2 4K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2172	2173	2162	17	32	350	4510	4485	4288	34
	530	3029	3032	3016	26		530	6357	6321	6043	52
	700	3788	3791	3771	34		700	7763	7719	7380	69
PGRS-2 5K LUMEN DATA						PGRS-2 5K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2226	2227	2216	17	32	350	4481	4456	4260	34
	530	3105	3107	3091	26		530	6316	6280	6004	52
	700	3882	3885	3865	34		700	7713	7669	7332	69
PGRS-2 3K LPW DATA						PGRS-2 3K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	137	137	137	17	32	350	133	133	127	34
	530	125	125	125	26		530	123	122	117	52
	700	120	120	119	34		700	113	112	107	69
PGRS-2 4K LPW DATA						PGRS-2 4K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	128	128	127	17	32	350	133	132	126	34
	530	116	117	116	26		530	122	122	116	52
	700	111	112	111	34		700	113	112	107	69
PGRS-2 5K LPW DATA						PGRS-2 5K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	131	131	130	17	32	350	132	131	125	34
	530	119	120	119	26		530	121	121	115	52
	700	114	114	114	34		700	112	111	106	69
PGRS-2 3K BUG DATA						PGRS-2 3K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 4K BUG DATA						PGRS-2 4K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 5K BUG DATA						PGRS-2 5K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69

PGRS-2 LED Specifications



Project Name:
Catalog Number:
Type:

The **PGRS-2 LED** luminaire from Visionaire combines contemporary design with new LED technology; while maintaining a traditional fixture image. The LED performance and Life are maximized by the unique integral aluminum heat sink. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

The LED housing is cast aluminum with internal heat sink for maximum heat dissipation; with 16 or 32 LEDs. The cast aluminum driver compartment allows the driver to operate cooler for long life.

Three optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **PGRS-2 LED** series is an exceptional choice for parking garage lighting and other wall mount applications.

Ordering Information

MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
PGRS-2	T2 Type 2	16LC	3 350mA	3K 3000K	UNV 120-277V	WM Wall Mount	BZ Bronze	PC-120 Button Type Photocell	EBPL Emergency Battery Pack 120V-277V Only
	T3 Type 3	32LC	5 530mA	4K 4000K	8 347V		BK Black	PC-208 Button Type Photocell	VWC Visionaire Wireless Controls Consult Factory
	T4 Type 4		7 700mA	5K 5000K	5 480V		SBK Smooth Black	PC-240 Button Type Photocell	
							WH White	PC-277 Button Type Photocell	BP Back Plate
							SWH Smooth White	WSC-8 Motion Sensor 8' Mounting Height	EBPL-CLD Cold Weather Emergency Battery Pack *Universal Voltage only Rated for -20° C to 50° C *Not available in Up Light Orientation
							GP Graphite	WSC-20 Motion Sensor 9-20' Mounting Height	
							GY Grey		
							SL Silver Metallic	WSC-40 Motion Sensor 21-40' Mounting Height	
							CC Custom Color		

WSC options will require (1) FSIR 100 remote for programming

Features & Specifications

PGRS-2

Housing

Heavy duty cast aluminum housing with internal heat sink for maximum heat dissipation. Silicone gasket is used for weather tight operation.

Mounting

A Wall Mount bracket can be secured directly to a 4"-5" recessed junction box.

Thermal Management

The PGRS-2 series provides excellent thermal management by mounting the LEDs to the substantial heat sink within the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.

Optical System

- The highest lumen output LEDs are utilized. High-performance acrylic optics feature industry leading Type II, III and IV optical distributions. Acrylic optics are impact-resistant and rated to 94 percent translucence.
- L70 life of our LEDs is rated over 100,000 hours (for 700 mA), The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- CRI values are 70.

Quali-Guard® Finish

The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness.

- All finishes are available in standard and custom colors.
- Finish is guaranteed for five (5) years.

Electrical Assembly

The PGRS-2 LED series is supplied with a choice of 350, 530 or 700 high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Power factor of 90%.
- Rated for -40°C operations.
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Button Style Photocell
- Watt Stopper FSP-211
- Motion Sensor
- Emergency Battery Pack
- Cold Weather Emergency Battery Pack (Rated for -20°C)
- Visionaire Wireless Controls
 - Enables high end trim
 - Based on Zigbee wireless communication protocol

Listings

- PGRS-2 is cUL listed, suitable for wet locations.
- IP66 Rated
- Powder Coated Tough™
- DLC Listed
- IDA listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

PGRS-2 - Electrical Load (A)							
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347V	480V
PGRS-2-T3-16LC-350MA	18	0.14	0.08	0.07	0.06	0.05	0.04
PGRS-2-T3-16LC-530MA	26	0.22	0.12	0.11	0.09	0.07	0.05
PGRS-2-T3-16LC-700MA	37	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-350MA	34	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-530MA	53	0.43	0.25	0.22	0.19	0.15	0.11
PGRS-2-T3-32LC-700MA	70	0.58	0.33	0.29	0.25	0.20	0.14

Motion Sensor Default Setting									
FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

* Settings can be field modified with the FSIR-100 Programming remote

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 PGRS-2-T4-16LC-3-3K-UNV-WM-
 STANDARD FINISH

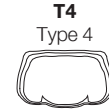
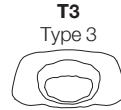
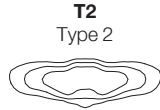
Notes:

Type:**F4**

SSCO LIGHTING24-34584

PGRS-2 LED Specifications

Photometric Optical Summary



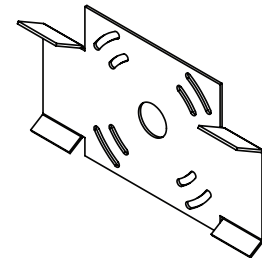
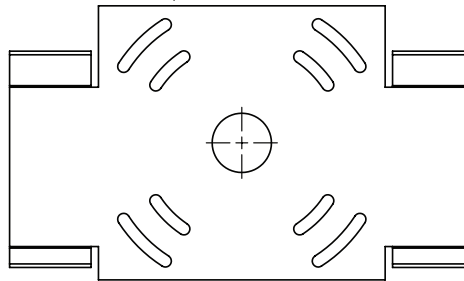
Dimensions

Width: PGRS-2 17.70"

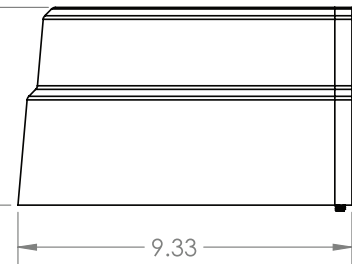
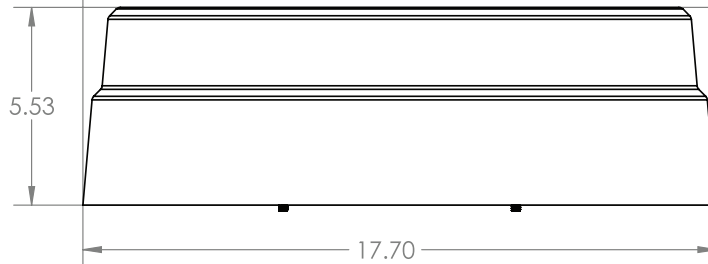
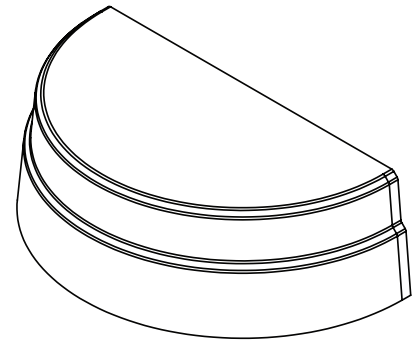
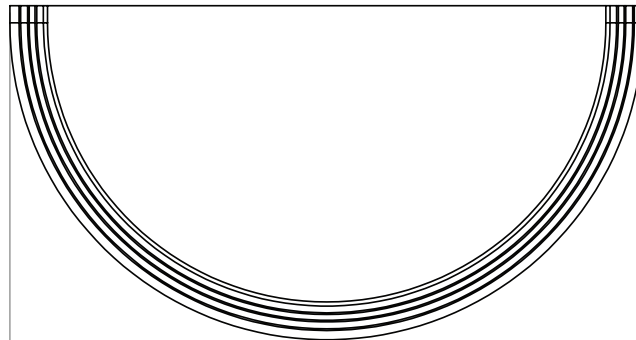
Height: PGRS-2 5.53"

Depth: PGRS-2 9.33"

Weight: 20 LBS

 Bracket Wall Mount Support
 Compatible with 4" and 5" J-Box


ISOMETRIC VIEW



LED Specifications **PGRS-2**

PGRS-2 3K LUMEN DATA						PGRS-2 3K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2332	2334	2322	17	32	350	4532	4506	4308	34
	530	3253	3256	3239	26		530	6387	6351	6072	52
	700	4068	4071	4050	34		700	7800	7756	7415	69
PGRS-2 4K LUMEN DATA						PGRS-2 4K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2172	2173	2162	17	32	350	4510	4485	4288	34
	530	3029	3032	3016	26		530	6357	6321	6043	52
	700	3788	3791	3771	34		700	7763	7719	7380	69
PGRS-2 5K LUMEN DATA						PGRS-2 5K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2226	2227	2216	17	32	350	4481	4456	4260	34
	530	3105	3107	3091	26		530	6316	6280	6004	52
	700	3882	3885	3865	34		700	7713	7669	7332	69
PGRS-2 3K LPW DATA						PGRS-2 3K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	137	137	137	17	32	350	133	133	127	34
	530	125	125	125	26		530	123	122	117	52
	700	120	120	119	34		700	113	112	107	69
PGRS-2 4K LPW DATA						PGRS-2 4K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	128	128	127	17	32	350	133	132	126	34
	530	116	117	116	26		530	122	122	116	52
	700	111	112	111	34		700	113	112	107	69
PGRS-2 5K LPW DATA						PGRS-2 5K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	131	131	130	17	32	350	132	131	125	34
	530	119	120	119	26		530	121	121	115	52
	700	114	114	114	34		700	112	111	106	69
PGRS-2 3K BUG DATA						PGRS-2 3K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 4K BUG DATA						PGRS-2 4K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 5K BUG DATA						PGRS-2 5K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69

PGRS-2 LED Specifications



Project Name:

Catalog Number:

Type:

The **PGRS-2 LED** luminaire from Visionaire combines contemporary design with new LED technology; while maintaining a traditional fixture image. The LED performance and Life are maximized by the unique integral aluminum heat sink. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

The LED housing is cast aluminum with internal heat sink for maximum heat dissipation; with 16 or 32 LEDs. The cast aluminum driver compartment allows the driver to operate cooler for long life.

Three optical distribution patterns are available. Choose between 3000, 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **PGRS-2 LED** series is an exceptional choice for parking garage lighting and other wall mount applications.

Ordering Information

MODEL	OPTICS	SOURCE	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
PGRS-2	T2 Type 2	16LC	3 350mA	3K 3000K	UNV 120-277V	WM Wall Mount	BZ Bronze	PC-120 Button Type Photocell	EBPL Emergency Battery Pack 120V-277V Only
	T3 Type 3	32LC	5 530mA	4K 4000K	8 347V		BK Black	PC-208 Button Type Photocell	VWC Visionaire Wireless Controls Consult Factory
	T4 Type 4		7 700mA	5K 5000K	5 480V		SBK Smooth Black	PC-240 Button Type Photocell	
							WH White	PC-277 Button Type Photocell	BP Back Plate
							SWH Smooth White		
							GP Graphite	WSC-8 Motion Sensor 8' Mounting Height	EBPL-CLD Cold Weather Emergency Battery Pack *Universal Voltage only Rated for -20° C to 50° C *Not available in Up Light Orientation
							GY Grey	WSC-20 Motion Sensor 9-20' Mounting Height	
							SL Silver Metallic	WSC-40 Motion Sensor 21-40' Mounting Height	
							CC Custom Color		

WSC options will require (1) FSIR 100 remote for programming

Features & Specifications

PGRS-2

Housing

Heavy duty cast aluminum housing with internal heat sink for maximum heat dissipation. Silicone gasket is used for weather tight operation.

Mounting

A Wall Mount bracket can be secured directly to a 4"-5" recessed junction box.

Thermal Management

The PGRS-2 series provides excellent thermal management by mounting the LEDs to the substantial heat sink within the housing. This enables the Luminaire to withstand higher ambient temperatures and driver currents without degrading LED life.

Optical System

- The highest lumen output LEDs are utilized. High-performance acrylic optics feature industry leading Type II, III and IV optical distributions. Acrylic optics are impact-resistant and rated to 94 percent translucence.
- L70 life of our LEDs is rated over 100,000 hours (for 700 mA), The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- CRI values are 70.

Quali-Guard® Finish

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400° F to promote maximum adherence and finish hardness.
- All finishes are available in standard and custom colors.
 - Finish is guaranteed for five (5) years.

Electrical Assembly

The PGRS-2 LED series is supplied with a choice of 350, 530 or 700 high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Power factor of 90%.
- Rated for -40°C operations.
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on electrical components, Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Button Style Photocell
- Watt Stopper FSP-211
- Motion Sensor
- Emergency Battery Pack
- Cold Weather Emergency Battery Pack (Rated for -20°C)
- Visionaire Wireless Controls
 - Enables high end trim
 - Based on Zigbee wireless communication protocol

Listings

- PGRS-2 is cUL listed, suitable for wet locations.
- IP66 Rated
- Powder Coated Tough™
- DLC Listed
- IDA listed



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

PGRS-2 - Electrical Load (A)							
Ordering Nomenclature	System Watts	120V	208V	240V	277V	347V	480V
PGRS-2-T3-16LC-350MA	18	0.14	0.08	0.07	0.06	0.05	0.04
PGRS-2-T3-16LC-530MA	26	0.22	0.12	0.11	0.09	0.07	0.05
PGRS-2-T3-16LC-700MA	37	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-350MA	34	0.28	0.16	0.14	0.12	0.10	0.07
PGRS-2-T3-32LC-530MA	53	0.43	0.25	0.22	0.19	0.15	0.11
PGRS-2-T3-32LC-700MA	70	0.58	0.33	0.29	0.25	0.20	0.14

Motion Sensor Default Setting									
FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

* Settings can be field modified with the FSIR-100 Programming remote

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 PGRS-2-T4-16LC-3-3K-UNV-WM-
 STANDARD FINISH-EBPL

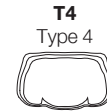
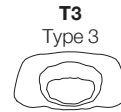
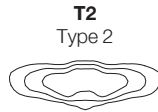
Notes:

Type:**F4E**

SSCO LIGHTING24-34584

PGRS-2 LED Specifications

Photometric Optical Summary



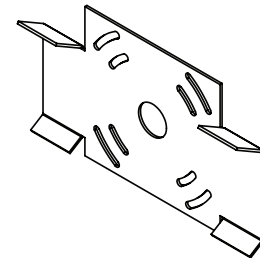
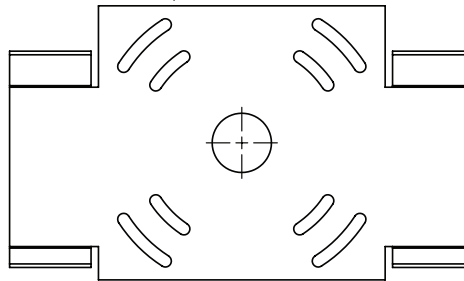
Dimensions

Width: PGRS-2 17.70"

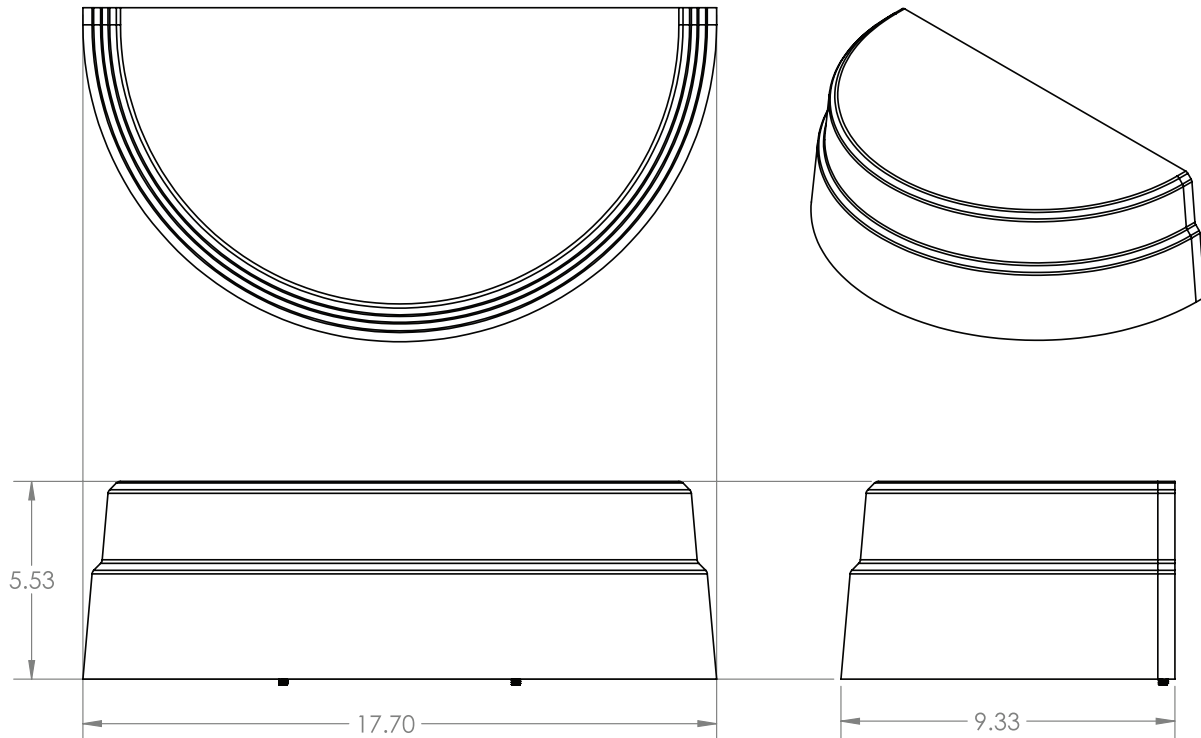
Height: PGRS-2 5.53"

Depth: PGRS-2 9.33"

Weight: 20 LBS

 Bracket Wall Mount Support
 Compatible with 4" and 5" J-Box


ISOMETRIC VIEW



LED Specifications **PGRS-2**

PGRS-2 3K LUMEN DATA						PGRS-2 3K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2332	2334	2322	17	32	350	4532	4506	4308	34
	530	3253	3256	3239	26		530	6387	6351	6072	52
	700	4068	4071	4050	34		700	7800	7756	7415	69
PGRS-2 4K LUMEN DATA						PGRS-2 4K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2172	2173	2162	17	32	350	4510	4485	4288	34
	530	3029	3032	3016	26		530	6357	6321	6043	52
	700	3788	3791	3771	34		700	7763	7719	7380	69
PGRS-2 5K LUMEN DATA						PGRS-2 5K LUMEN DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	2226	2227	2216	17	32	350	4481	4456	4260	34
	530	3105	3107	3091	26		530	6316	6280	6004	52
	700	3882	3885	3865	34		700	7713	7669	7332	69
PGRS-2 3K LPW DATA						PGRS-2 3K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	137	137	137	17	32	350	133	133	127	34
	530	125	125	125	26		530	123	122	117	52
	700	120	120	119	34		700	113	112	107	69
PGRS-2 4K LPW DATA						PGRS-2 4K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	128	128	127	17	32	350	133	132	126	34
	530	116	117	116	26		530	122	122	116	52
	700	111	112	111	34		700	113	112	107	69
PGRS-2 5K LPW DATA						PGRS-2 5K LPW DATA					
# LEDs	mA	T2	T3	T4	Power (W)	# LEDs	mA	T2	T3	T4	Power (W)
16	350	131	131	130	17	32	350	132	131	125	34
	530	119	120	119	26		530	121	121	115	52
	700	114	114	114	34		700	112	111	106	69
PGRS-2 3K BUG DATA						PGRS-2 3K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 4K BUG DATA						PGRS-2 4K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69
PGRS-2 5K BUG DATA						PGRS-2 5K BUG DATA					
# LEDs	mA	T2			T3			T4			Power (W)
		B	U	G	B	U	G	B	U	G	
16	350	1	0	1	1	0	1	1	0	1	17
	530	1	0	1	1	0	1	1	0	1	26
	700	1	0	1	1	0	1	1	0	2	34
32	350	1	0	2	1	0	1	1	0	1	34
	530	1	0	2	2	0	2	1	0	2	52
	700	2	0	2	2	0	2	2	0	2	69

LUSSO ARRAY M-PT Serenity Lens LED Specifications



Project Name:

Catalog Number:

Type:

Contemporary design meets the new generation of LED green technology in this stunning luminaire, the **Lusso Array**. The Lusso Array series provides over fifty percent energy savings over traditional HID light sources; and offers excellent beam control and LED life beyond 100,000 hours for 1400 milliamp systems. The Lusso Array is offered in ten optical distributions.

The Lusso Array's fully-sealed housing features an exceptionally well-designed thermal management system that provides superior heat dissipation.

The Lusso Array fixture is built with cast aluminum.

The **Lusso Array** is the perfect compliment to any university campus, business park, or walkway project where contemporary, architectural design is desired.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	SERENITY LENS	OPTIONS	OPTIONS
LSO-M	T1 Type 1	5L	3K 3000K	UNV 120-277V	PTS Post Top Single Arm	BK Black	LDL Lightly Diffused Lens	PCR-120 PCR-208 PCR-240 PCR-277 PCR-347 PCR-480 Photocell & Receptacle	WSC-8 Motion Sensor 8' Mounting Height
	T2 Type 2	8L	4K 4000K	8 347V	PTD Post Top Double Arm	SBK Smooth Black	HDL High Diffused Lens		WSC-20 Motion Sensor 9-20' Mounting Height
	T3L Type 3 Long	14L	5K 5000K	5 480V	*The Lusso Medium Post Top will slip over a 3" O.D. X 4" Tall tenon	BZ Bronze			WSC-40 Motion Sensor 21-40' Mounting Height
	T4L Type 4 Long	17L				GP Graphite		PER 5PINPER 7PINPER 3, 5, or 7 Pin Photo Receptacle w/shorting cap * Requires Dimming Driver	*The WSC option will require (1) FSIR 100 remote for programing
	T5LS Type 5 Long Square					GY Grey		DIM 0-10v Dimming Driver	CLS Cutoff Louver Shield
						SL Silver Metallic		VWC Visionaire Wireless Controls * Consult Factory	ROT-R Rotated Optics Right Side
						WH White			ROT-L Rotated Optics Left Side
						SWH Smooth White			
						FG Forest Green			
						VD Verdigris Green			
						CC Custom Color			

Features & Specifications

LUSSO ARRAY M-PT Serenity Lens

Housing

The Lusso Arrays housing is constructed from durable, corrosion-resistant, cast aluminum. The Cast aluminum top cap is easily removable for service. Silicone gasketing is provided for complete weather and insect protection.

Thermal Management

The Lusso Array provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the Lusso Array to withstand higher ambient temperatures and higher drive currents without degrading LED life.

Optical System - Serenity Lens

- Serenity Lens is offered in two different diffusion levels, high and lightly diffused.
- The highest lumen output Array LEDs are utilized. High performance acrylic optics feature industry-leading Type 1, 2, 3L, 4L, and 5LS optical distributions.
- L70 life of our LEDs is rated over 100,000 hours
- CRI values are 70.

New LED Array Technology

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

Quali-Guard® Finish

- Fixture components are chemically pretreated through a multiple-stage washer, and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 millimeters thickness. Finish is oven-baked at 400 °F for maximum adherence and finish hardness.
- Available in standard and custom colors.
- Finish is guaranteed for five (5) years.

Post Top Mount

- Lusso Arrays contractor-friendly mounting hardware slips over 3" O.D. x 4" tall tenon utilizing stainless steel hardware.
- Round Internal Tenon Adaptors (RITA) are recommended for a smooth-looking connection. Standard for 4" poles, custom size required for 3" or 5" poles.

Electrical Assembly

- The Lusso Array is supplied with a high-performance driver available in 700, 1050, 1200 and 1400 mA. The driver is integrally-located in the housing, and is operational from 120 V through 480 V, 50 Hz to 60 Hz input.
- Power factor is 90%.
- Rated for -40° to 50°C operation.
- 10 kV surge protector supplied as standard.

Warranty

- Ten (10) year Limited Warranty on electrical components.
 - Five (5) year on finish.
- For full warranty information, please visit visionairelighting.com.

Options

- Photocell & Receptacle
 - Photocell Receptacle with shorting cap
 - 0-10v Dimming Driver
 - WattStopper FSP-211 Motion Sensor
 - Wireless Control
 - Lightly Diffused Lens
 - High Diffused Lens
 - Cutoff Louver Shield
- Please consult factory for detailed custom options.

Listings

- cUL Listed
- IP65 Rated
- Powder Coated Tough™
- IDA dark sky certification



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed Mount must be selected for IDA dark sky certification.

Motion Sensor Default Setting		
Type	WSC - Default	WSC Range
High Mode	10V	0 -10V
Low Mode	1V	0 - 9.8V
Time Delay	5 Min	5 - 30 Min
Cut Off Delay	1 Hour	1 - 5 Hours
Sensitivity	Max	Low, Med, Max
Hold Off Setpoint	Disabled	1 - 250FC
Photocell On/Off	Disabled	1 - 250FC
Ramp Up Time	Disabled	1 - 60 Dec
Fade Down Time	Disabled	1 - 60 Dec

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 LSO-M-T3L-8L-3K-UNV-PTS-
 STANDARD FINISH-LDL

Notes:

Type:**S1**

SSCO LIGHTING24-34584

LUSSO ARRAY M-PT Serenity Lens LED Specifications

Photometric Optical Summary

T1 Type 1	T2 Type 2	T3L Type 3 Long	T4L Type 4 Long	T5LS Type 5 Long Square
				

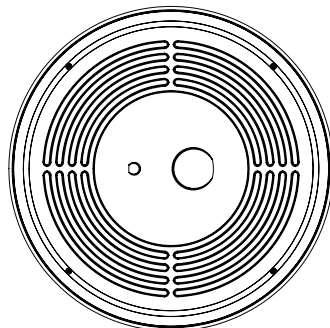
EPA Data

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Dimensions
Width: LSO-M 21"

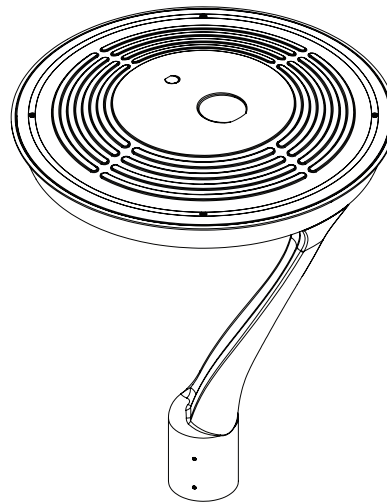
Depth: LSO-M 21"

Height: LSO-M 25.5"

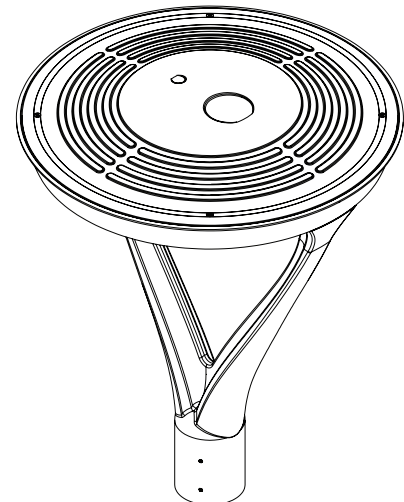
Weight (Single): LSO-M 30 lbs

Weight (Double): LSO-M 32 lbs


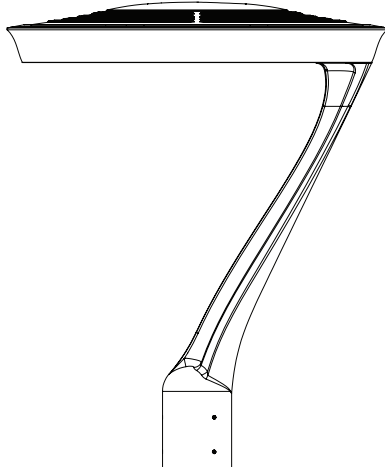
TOP VIEW



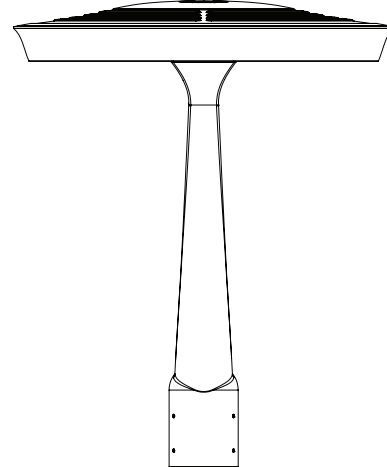
PERSPECTIVE VIEW (SINGLE)



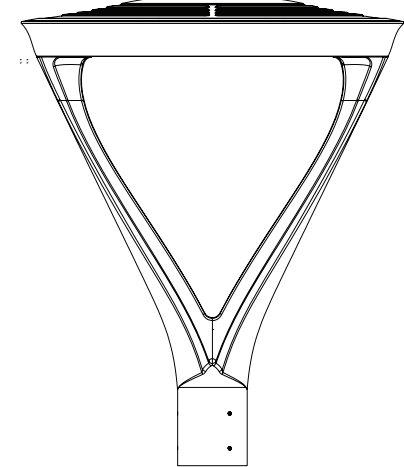
PERSPECTIVE VIEW (DOUBLE)



FRONT VIEW (SINGLE)



SIDE VIEW



FRONT VIEW (DOUBLE)

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 LSO-M-T3L-8L-3K-UNV-PTS-
 STANDARD FINISH-LDL

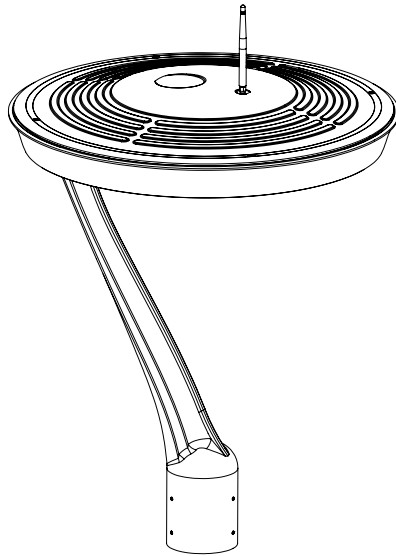
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Type:**S1**

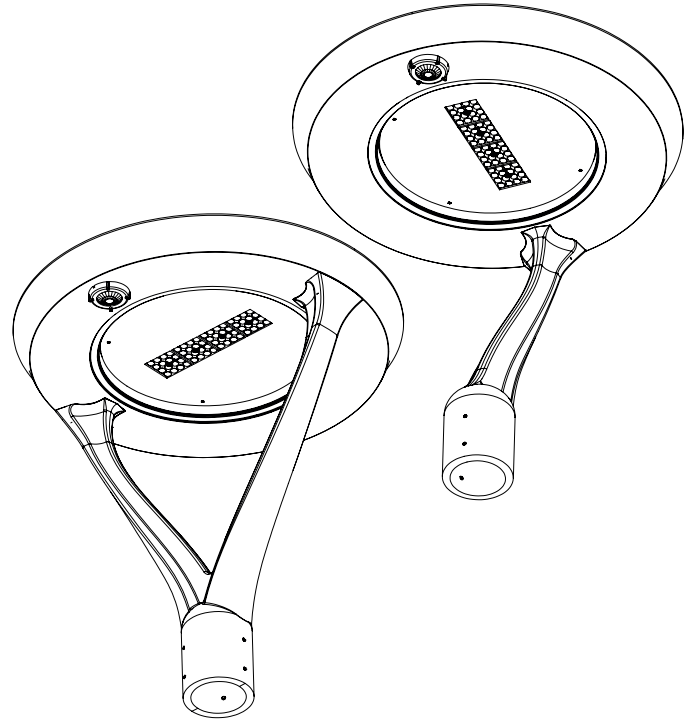
SSCO LIGHTING24-34584

LED Specifications **LUSSO ARRAY M-PT Serenity Lens**

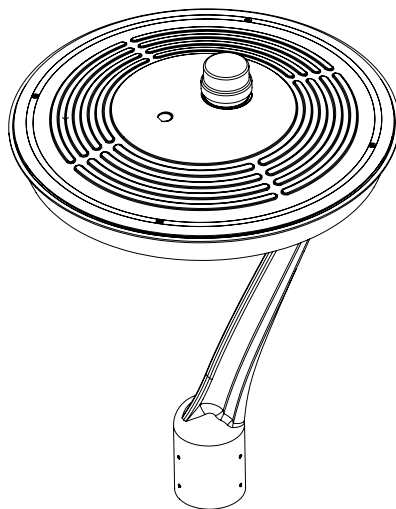
LSO-M-PT Options



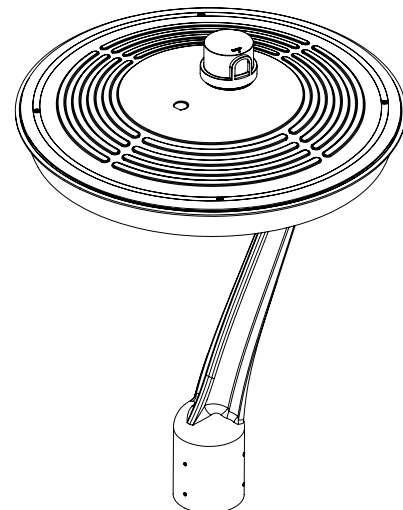
Visionaire Wireless Controls



Motion Sensor



3, 5 or 7 Pin Photo Receptacle w/shorting cap



Photocell & Receptacle

LUSSO ARRAY M-PT Serenity Lens LED Specifications

3K LUMEN DATA - LDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	4990	5063	4587	4612	4887	52
8L	8156	8275	7497	7538	7987	89
11L	11031	11192	10140	10195	10802	124
14L	14095	14301	12957	13027	13803	163
17L	17108	17357	15726	15811	16753	202
4K LUMEN DATA - LDL DIFFUSER						
5L	5178	5253	4759	4785	5070	52
8L	8462	8585	7778	7820	8286	89
11L	11444	11612	10520	10577	11207	124
14L	14624	14837	13443	13515	14321	163
17L	17749	18008	16316	16404	17381	202
5K LUMEN DATA - LDL DIFFUSER						
5L	5289	5366	4862	4888	5179	52
8L	8643	8769	7945	7988	8464	89
11L	11690	11861	10746	10804	11448	124
14L	14937	15156	13731	13805	14628	163
17L	18130	18395	16666	16756	17755	202
3K LPW DATA - LDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	95	97	88	88	93	52
8L	91	93	84	84	89	89
11L	89	90	82	82	87	124
14L	87	88	80	80	85	163
17L	85	86	78	78	83	202
4K LPW DATA - LDL DIFFUSER						
5L	99	100	91	91	97	52
8L	95	96	87	88	93	89
11L	92	93	85	85	90	124
14L	90	91	83	83	88	163
17L	88	89	81	81	86	202
5K LPW DATA - LDL DIFFUSER						
5L	101	102	93	93	99	52
8L	97	98	89	89	95	89
11L	94	95	87	87	92	124
14L	92	93	84	85	90	163
17L	90	91	83	83	88	202

3K LUMEN DATA - HDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	4859	4981	3827	4412	4699	52
8L	7941	8139	6254	7210	7679	89
11L	10740	11009	8459	9752	10386	124
14L	13724	14067	10809	12461	13271	163
17L	16657	17073	13119	15124	16108	202
4K LUMEN DATA - HDL DIFFUSER						
5L	5041	5167	3971	4577	4875	52
8L	8239	8445	6489	7481	7967	89
11L	11143	11421	8776	10118	10775	124
14L	14238	14594	11214	12928	13769	163
17L	17281	17714	13611	15691	16712	202
5K LUMEN DATA - HDL DIFFUSER						
5L	5149	5278	4056	4676	4980	52
8L	8416	8626	6628	7641	8138	89
11L	11382	11667	8965	10335	11007	124
14L	14544	14908	11455	13206	14064	163
17L	17652	18094	13903	16028	17070	202
3K LPW DATA - HDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	93	95	73	84	90	52
10L	89	91	70	81	86	89
15L	86	89	68	79	84	124
20L	84	87	66	77	82	163
25L	83	85	65	75	80	202
4K LPW DATA - HDL DIFFUSER						
5L	5L	96	99	76	87	93
10L	8L	92	94	73	84	89
15L	11L	90	92	71	81	87
20L	14L	88	90	69	80	85
25L	17L	86	88	68	78	83
5K LPW DATA - HDL DIFFUSER						
5L	98	101	77	89	95	52
10L	94	97	74	86	91	89
15L	92	94	72	83	89	124
20L	89	92	70	81	87	163
25L	88	90	69	80	85	202

LED Specifications **LUSSO ARRAY M-PT Serenity Lens**

3K BUG DATA - LDL DIFFUSER																
Lumens	T1			T2			T3L			T4L			T5LS			Watts
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	1	52
8L	2	0	2	2	0	2	2	0	2	2	0	2	3	0	1	89
11L	3	0	3	3	0	2	2	0	2	2	0	2	3	0	1	124
14L	3	0	3	3	0	2	3	0	3	3	0	3	3	0	2	163
17L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	202
4K BUG DATA - LDL DIFFUSER																
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	1	52
8L	2	0	2	2	0	2	2	0	2	2	0	2	3	0	1	89
11L	3	0	3	3	0	2	3	0	2	2	0	2	3	0	1	124
14L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	163
17L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	202
5K BUG DATA - LDL DIFFUSER																
5L	2	0	2	2	0	1	2	0	1	2	0	1	2	0	1	52
8L	2	0	2	2	0	2	2	0	2	2	0	2	3	0	1	89
11L	3	0	3	3	0	2	3	0	2	3	0	2	3	0	1	124
14L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	163
17L	3	0	3	3	0	3	3	0	3	3	0	3	3	0	2	202

3K BUG DATA - HDL DIFFUSER																
Lumens	T1			T2			T3L			T4L			T5LS			Watts
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	1	2	0	1	1	0	1	2	0	1	2	0	1	52
8L	2	0	1	2	0	2	2	0	1	2	0	2	2	0	1	89
11L	3	0	1	3	0	2	2	0	2	3	0	2	3	0	1	124
14L	3	0	1	3	0	2	3	0	2	3	0	2	3	0	1	163
17L	3	0	1	3	0	3	3	0	2	3	0	3	3	0	1	202
4K BUG DATA - HDL DIFFUSER																
5L	2	0	1	2	0	1	1	0	1	2	0	1	2	0	1	52
8L	2	0	1	2	0	2	2	0	1	2	0	2	2	0	1	89
11L	3	0	1	3	0	2	2	0	2	3	0	2	3	0	1	124
14L	3	0	1	3	0	2	3	0	2	3	0	2	3	0	1	163
17L	3	0	1	3	0	3	3	0	2	3	0	3	3	0	1	202
5K BUG DATA - HDL DIFFUSER																
5L	2	0	1	2	0	1	1	0	1	2	0	1	2	0	1	52
8L	2	0	1	3	0	2	2	0	1	3	0	2	2	0	1	89
11L	3	0	1	3	0	2	3	0	2	3	0	2	3	0	1	124
14L	3	0	1	3	0	2	3	0	2	3	0	2	3	0	1	163
17L	3	0	1	3	0	3	3	0	2	3	0	3	3	0	1	202

ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
LSO-M-T5LS-5L-4K	52	0.43	0.25	0.22	0.19	0.15	0.11
LSO-M-T5LS-8L-4K	89	0.74	0.43	0.37	0.32	0.26	0.19
LSO-M-T5LS-11L-4K	124	1.03	0.60	0.52	0.45	0.36	0.26
LSO-M-T5LS-14L-4K	163	1.36	0.78	0.68	0.59	0.47	0.34
LSO-M-T5LS-17L-4K	202	1.68	0.97	0.84	0.73	0.58	0.42

Motion Sensor Default Setting									
Type	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Min	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0 -10V	0 -9.8V	5 - 30 Min	1 - 5 Hours	Low, Med, Max	1 - 250FC	1 - 250FC	1 - 60 Dec	1-60 Dec

LUSSO ARRAY M-PT Serenity Lens LED Specifications



Project Name:

Catalog Number:

Type:

Contemporary design meets the new generation of LED green technology in this stunning luminaire, the **Lusso Array**. The Lusso Array series provides over fifty percent energy savings over traditional HID light sources; and offers excellent beam control and LED life beyond 100,000 hours for 1400 milliamp systems. The Lusso Array is offered in ten optical distributions.

The Lusso Array's fully-sealed housing features an exceptionally well-designed thermal management system that provides superior heat dissipation.

The Lusso Array fixture is built with cast aluminum.

The **Lusso Array** is the perfect compliment to any university campus, business park, or walkway project where contemporary, architectural design is desired.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	SERENITY LENS	OPTIONS	OPTIONS
LSO-M	T1 Type 1	5L	3K 3000K	UNV 120-277V	PTS Post Top Single Arm	BK Black	LDL Lightly Diffused Lens	PCR-120	WSC-8 Motion Sensor 8' Mounting Height
	T2 Type 2	8L	4K 4000K	8 347V	PTD Post Top Double Arm	SBK Smooth Black	HDL High Diffused Lens	PCR-208	
	T3L Type 3 Long	14L	5K 5000K	5 480V	*The Lusso Medium Post Top will slip over a 3" O.D. X 4" Tall tenon	BZ Bronze		PCR-240	WSC-20 Motion Sensor 9-20' Mounting Height
	T4L Type 4 Long	17L				GP Graphite		PCR-277	
	T5LS Type 5 Long Square					GY Grey		PCR-347	
						SL Silver Metallic		PCR-480 Photocell & Receptacle	
						WH White		PER	WSC-40 Motion Sensor 21-40' Mounting Height
						SWH Smooth White		5PINPER	*The WSC option will require (1) FSIR 100 remote for programming
						FG Forest Green		7PINPER	
						VD Verdigris Green		3, 5, or 7 Pin Photo Receptacle w/shorting cap * Requires Dimming Driver	
						CC Custom Color		DIM 0-10v Dimming Driver	CLS Cutoff Louver Shield
								VWC Visionaire Wireless Controls * Consult Factory	ROT-R Rotated Optics Right Side
									ROT-L Rotated Optics Left Side

Features & Specifications

LUSSO ARRAY M-PT Serenity Lens

Housing

The Lusso Arrays housing is constructed from durable, corrosion-resistant, cast aluminum. The Cast aluminum top cap is easily removable for service. Silicone gasketing is provided for complete weather and insect protection.

Thermal Management

The Lusso Array provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the Lusso Array to withstand higher ambient temperatures and higher drive currents without degrading LED life.

Optical System - Serenity Lens

- Serenity Lens is offered in two different diffusion levels, high and lightly diffused.
- The highest lumen output Array LEDs are utilized. High performance acrylic optics feature industry-leading Type 1, 2, 3L, 4L, and 5LS optical distributions.
- L70 life of our LEDs is rated over 100,000 hours
- CRI values are 70.

New LED Array Technology

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

Quali-Guard® Finish

- Fixture components are chemically pretreated through a multiple-stage washer, and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 millimeters thickness. Finish is oven-baked at 400 °F for maximum adherence and finish hardness.
- Available in standard and custom colors.
- Finish is guaranteed for five (5) years.

Post Top Mount

- Lusso Arrays contractor-friendly mounting hardware slips over 3" O.D. x 4" tall tenon utilizing stainless steel hardware.
- Round Internal Tenon Adaptors (RITA) are recommended for a smooth-looking connection. Standard for 4" poles, custom size required for 3" or 5" poles.

Electrical Assembly

- The Lusso Array is supplied with a high-performance driver available in 700, 1050, 1200 and 1400 mA. The driver is integrally-located in the housing, and is operational from 120 V through 480 V, 50 Hz to 60 Hz input.
- Power factor is 90%.
- Rated for -40° to 50°C operation.
- 10 kV surge protector supplied as standard.

Warranty

- Ten (10) year Limited Warranty on electrical components.
 - Five (5) year on finish.
- For full warranty information, please visit visionairelighting.com.

Options

- Photocell & Receptacle
 - Photocell Receptacle with shorting cap
 - 0-10v Dimming Driver
 - WattStopper FSP-211 Motion Sensor
 - Wireless Control
 - Lightly Diffused Lens
 - High Diffused Lens
 - Cutoff Louver Shield
- Please consult factory for detailed custom options.

Listings

- cUL Listed
- IP65 Rated
- Powder Coated Tough™
- IDA dark sky certification



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected for IDA certification.
Fixed Mount must be selected for IDA dark sky certification.

Motion Sensor Default Setting		
Type	WSC - Default	WSC Range
High Mode	10V	0 -10V
Low Mode	1V	0 - 9.8V
Time Delay	5 Min	5 - 30 Min
Cut Off Delay	1 Hour	1 - 5 Hours
Sensitivity	Max	Low, Med, Max
Hold Off Setpoint	Disabled	1 - 250FC
Photocell On/Off	Disabled	1 - 250FC
Ramp Up Time	Disabled	1 - 60 Dec
Fade Down Time	Disabled	1 - 60 Dec

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 LSO-M-T4L-11L-3K-UNV-PTS-
 STANDARD FINISH-LDL

Notes:

Type:**S2**

SSCO LIGHTING24-34584

LUSSO ARRAY M-PT Serenity Lens LED Specifications

Photometric Optical Summary**T1**

Type 1

**T2**

Type 2

**T3L**

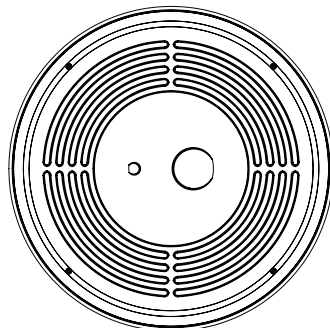
Type 3 Long

**T4L**

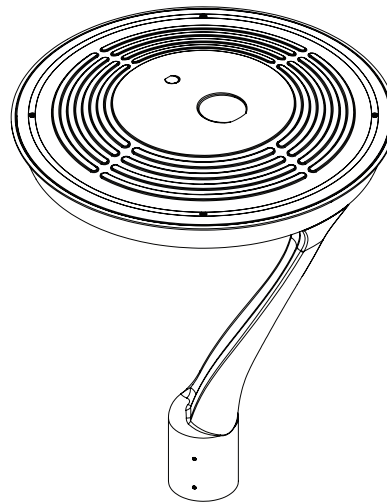
Type 4 Long

**T5LS**

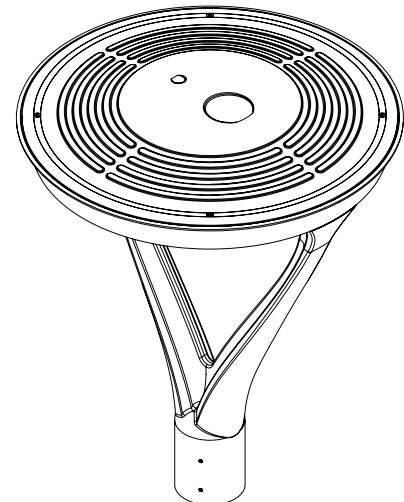
Type 5 Long Square

**EPA Data****Dimensions****Width:** LSO-M 21"**Depth:** LSO-M 21"**Height:** LSO-M 25.5"**Weight (Single):** LSO-M 30 lbs**Weight (Double):** LSO-M 32 lbs

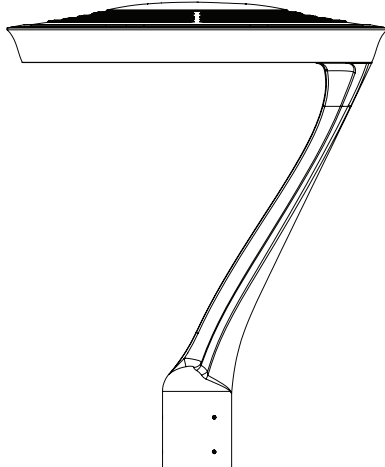
TOP VIEW



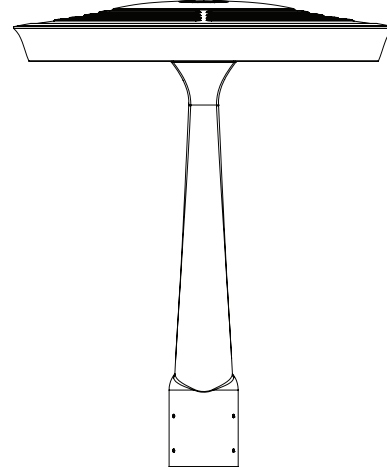
PERSPECTIVE VIEW (SINGLE)



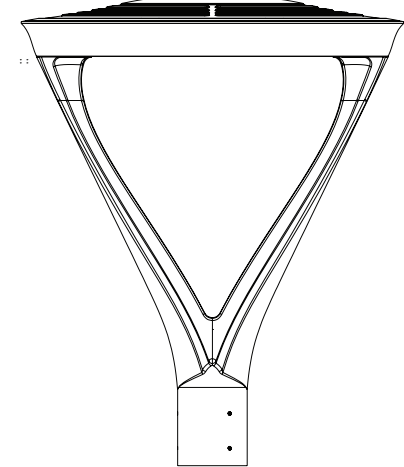
PERSPECTIVE VIEW (DOUBLE)



FRONT VIEW (SINGLE)



SIDE VIEW



FRONT VIEW (DOUBLE)

Job Name:
 School House Academy, Heber UT
 Engineer: Breinholt Power Engineering (Lehi)
Catalog Number:
 LSO-M-T4L-11L-3K-UNV-PTS-
 STANDARD FINISH-LDL

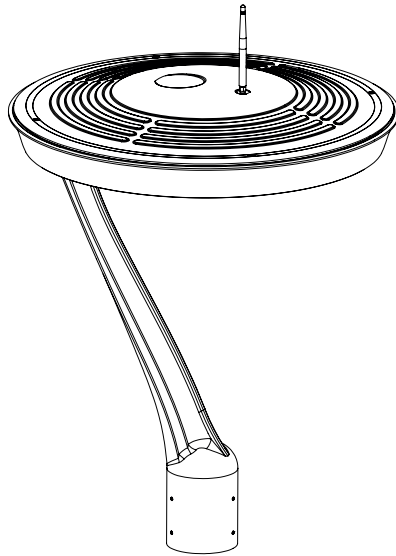
Notes:

Type:**S2**

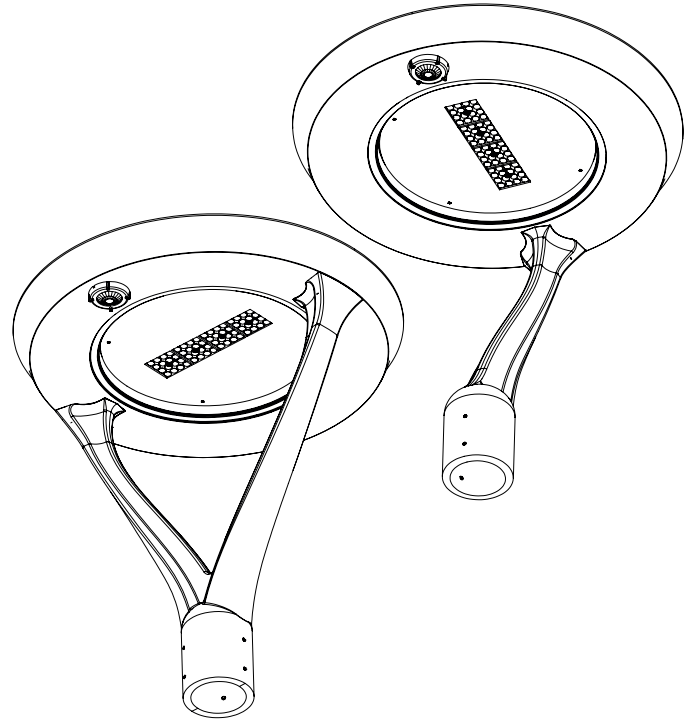
SSCO LIGHTING24-34584

LED Specifications **LUSSO ARRAY M-PT Serenity Lens**

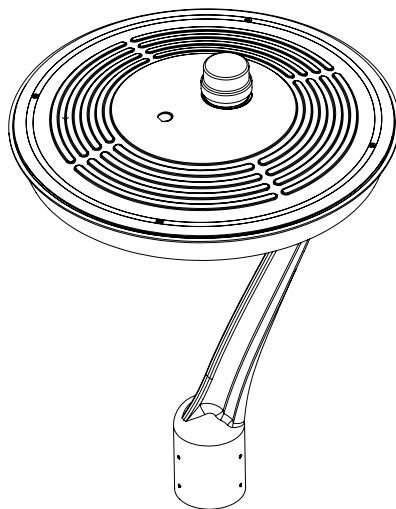
LSO-M-PT Options



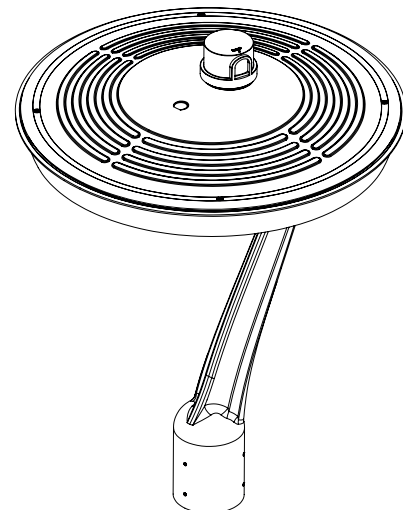
Visionaire Wireless Controls



Motion Sensor



3, 5 or 7 Pin Photo Receptacle w/shorting cap



Photocell & Receptacle

LUSSO ARRAY M-PT Serenity Lens LED Specifications

3K LUMEN DATA - LDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	4990	5063	4587	4612	4887	52
8L	8156	8275	7497	7538	7987	89
11L	11031	11192	10140	10195	10802	124
14L	14095	14301	12957	13027	13803	163
17L	17108	17357	15726	15811	16753	202
4K LUMEN DATA - LDL DIFFUSER						
5L	5178	5253	4759	4785	5070	52
8L	8462	8585	7778	7820	8286	89
11L	11444	11612	10520	10577	11207	124
14L	14624	14837	13443	13515	14321	163
17L	17749	18008	16316	16404	17381	202
5K LUMEN DATA - LDL DIFFUSER						
5L	5289	5366	4862	4888	5179	52
8L	8643	8769	7945	7988	8464	89
11L	11690	11861	10746	10804	11448	124
14L	14937	15156	13731	13805	14628	163
17L	18130	18395	16666	16756	17755	202
3K LPW DATA - LDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	95	97	88	88	93	52
8L	91	93	84	84	89	89
11L	89	90	82	82	87	124
14L	87	88	80	80	85	163
17L	85	86	78	78	83	202
4K LPW DATA - LDL DIFFUSER						
5L	99	100	91	91	97	52
8L	95	96	87	88	93	89
11L	92	93	85	85	90	124
14L	90	91	83	83	88	163
17L	88	89	81	81	86	202
5K LPW DATA - LDL DIFFUSER						
5L	101	102	93	93	99	52
8L	97	98	89	89	95	89
11L	94	95	87	87	92	124
14L	92	93	84	85	90	163
17L	90	91	83	83	88	202

3K LUMEN DATA - HDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	4859	4981	3827	4412	4699	52
8L	7941	8139	6254	7210	7679	89
11L	10740	11009	8459	9752	10386	124
14L	13724	14067	10809	12461	13271	163
17L	16657	17073	13119	15124	16108	202
4K LUMEN DATA - HDL DIFFUSER						
5L	5041	5167	3971	4577	4875	52
8L	8239	8445	6489	7481	7967	89
11L	11143	11421	8776	10118	10775	124
14L	14238	14594	11214	12928	13769	163
17L	17281	17714	13611	15691	16712	202
5K LUMEN DATA - HDL DIFFUSER						
5L	5149	5278	4056	4676	4980	52
8L	8416	8626	6628	7641	8138	89
11L	11382	11667	8965	10335	11007	124
14L	14544	14908	11455	13206	14064	163
17L	17652	18094	13903	16028	17070	202
3K LPW DATA - HDL DIFFUSER						
Lumens	T1	T2	T3L	T4L	T5LS	Watts
5L	93	95	73	84	90	52
10L	89	91	70	81	86	89
15L	86	89	68	79	84	124
20L	84	87	66	77	82	163
25L	83	85	65	75	80	202
4K LPW DATA - HDL DIFFUSER						
5L	5L	96	99	76	87	93
10L	8L	92	94	73	84	89
15L	11L	90	92	71	81	87
20L	14L	88	90	69	80	85
25L	17L	86	88	68	78	83
5K LPW DATA - HDL DIFFUSER						
5L	98	101	77	89	95	52
10L	94	97	74	86	91	89
15L	92	94	72	83	89	124
20L	89	92	70	81	87	163
25L	88	90	69	80	85	202

Job Name:School House Academy, Heber UT
Engineer: Breinholt Power Engineering (Lehi)**Catalog Number:**LSO-M-T4L-11L-3K-UNV-PTS-
STANDARD FINISH-LDL

Notes:

Type:**S2**

SSCO LIGHTING24-34584

LED Specifications **LUSSO ARRAY M-PT Serenity Lens**

3K BUG DATA - LDL DIFFUSER													
Lumens	T1			T2			T3L			T4L			Watts
	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	2	2	0	1	2	0	1	2	0	1	52
8L	2	0	2	2	0	2	2	0	2	2	0	2	89
11L	3	0	3	3	0	2	2	0	2	2	0	2	124
14L	3	0	3	3	0	2	3	0	3	3	0	3	163
17L	3	0	3	3	0	3	3	0	3	3	0	3	202
4K BUG DATA - LDL DIFFUSER													
5L	2	0	2	2	0	1	2	0	1	2	0	1	52
8L	2	0	2	2	0	2	2	0	2	2	0	2	89
11L	3	0	3	3	0	2	3	0	2	2	0	2	124
14L	3	0	3	3	0	3	3	0	3	3	0	3	163
17L	3	0	3	3	0	3	3	0	3	3	0	3	202
5K BUG DATA - LDL DIFFUSER													
5L	2	0	2	2	0	1	2	0	1	2	0	1	52
8L	2	0	2	2	0	2	2	0	2	2	0	2	89
11L	3	0	3	3	0	2	3	0	2	3	0	2	124
14L	3	0	3	3	0	3	3	0	3	3	0	3	163
17L	3	0	3	3	0	3	3	0	3	3	0	3	202

3K BUG DATA - HDL DIFFUSER													
Lumens	T1			T2			T3L			T4L			Watts
	B	U	G	B	U	G	B	U	G	B	U	G	
5L	2	0	1	2	0	1	1	0	1	2	0	1	52
8L	2	0	1	2	0	2	2	0	1	2	0	2	89
11L	3	0	1	3	0	2	2	0	2	3	0	2	124
14L	3	0	1	3	0	2	3	0	2	3	0	2	163
17L	3	0	1	3	0	3	3	0	2	3	0	3	202
4K BUG DATA - HDL DIFFUSER													
5L	2	0	1	2	0	1	1	0	1	2	0	1	52
8L	2	0	1	2	0	2	2	0	1	2	0	2	89
11L	3	0	1	3	0	2	2	0	2	3	0	2	124
14L	3	0	1	3	0	2	3	0	2	3	0	2	163
17L	3	0	1	3	0	3	3	0	2	3	0	3	202
5K BUG DATA - HDL DIFFUSER													
5L	2	0	1	2	0	1	1	0	1	2	0	1	52
8L	2	0	1	3	0	2	2	0	1	3	0	2	89
11L	3	0	1	3	0	2	3	0	2	3	0	2	124
14L	3	0	1	3	0	2	3	0	2	3	0	2	163
17L	3	0	1	3	0	3	3	0	2	3	0	3	202

ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
LSO-M-T5LS-5L-4K	52	0.43	0.25	0.22	0.19	0.15	0.11
LSO-M-T5LS-8L-4K	89	0.74	0.43	0.37	0.32	0.26	0.19
LSO-M-T5LS-11L-4K	124	1.03	0.60	0.52	0.45	0.36	0.26
LSO-M-T5LS-14L-4K	163	1.36	0.78	0.68	0.59	0.47	0.34
LSO-M-T5LS-17L-4K	202	1.68	0.97	0.84	0.73	0.58	0.42

Motion Sensor Default Setting									
Type	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Min	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0 -10V	0 -9.8V	5 - 30 Min	1 - 5 Hours	Low, Med, Max	1 - 250FC	1 - 250FC	1 - 60 Dec	1-60 Dec



Date: May 13, 2024

Quantum Lighting
423 W. Broadway
Salt Lake City UT 84101
Phone: (801) 270-0010
Fax: (801) 264-0060

Job Name
SCHOOL HOUSE ACADEMY
NQLG24-121650

Bid Date
May 13, 2024

Submittal Date
May 13, 2024

Engineer:
BREINHOLT POWER ENGINEERING
805 South 1430 West
Lehi UT 84043



Transmittal

Quantum Lighting
 423 W. Broadway
 Salt Lake City UT 84101
 Phone: (801) 270-0010
From: Jake Fitzgerald

Project **SCHOOL HOUSE ACADEMY**
Quote# NQLG24-121650
Location
To Breinholt Power Engineering
 805 South 1430 West
 Lehi UT 84043
 Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| ☐ Drawings | ☒ Specifications | Other: |
| ☐ Prints | ☐ Information | |
| ☐ Plans | ☐ Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| ☒ Prior Approval | ☐ Resubmittal for Approval | ☐ Record |
| ☐ Approval | ☐ Corrections | Bids due on: |
| ☐ Approval as Submitted | ☐ Your Use | Other: |
| ☐ Approval as Noted | ☐ Review and Comment | |

Type	MFG	Part
F1	HALO	HC620D010 HM60525835 61MDC (HALO, PDS)
F1E	HALO	HC620D010IEM14 HM60525835 61MDCIEM (HALO, PDS)
F2	MCGRAW-EDISON	ISC-SA1A-830-U-T3-SCBA
F3	MCGRAW-EDISON	ISC-SA1D-830-U-T4W-SCBA
F3E	MCGRAW-EDISON	ISC-SA1D-830-U-T4W-SCBA-CBP
F4	MCGRAW-EDISON	ISC-SA1A-830-U-T4W-SCBA
F4E	MCGRAW-EDISON	ISC-SA1A-830-U-T4W-SCBA-CBP
S1	INVUE	MSA-SA1D-730-U-T4FT-SCBA RSP12-4.0-11-SCBA-BC (INVU, KW)
S2	INVUE	MSA-SA2B-730-U-T4FT-SCBA RSP12-4.0-11-SCBA-BC (INVU, KW)

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO Commercial

HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 4](#)
- Photometric Data [page 5](#)
- Energy & Performance Data [page 8](#)
- Connected Systems [page 10](#)
- Product Warranty

Top Product Features

- New construction/remodel series; 500 to 6,000 lumens
- Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Mounting frame converts to remodel that installs from below the ceiling
- Quick Spec emergency backup mounting frames - fast delivery option

Product Certification



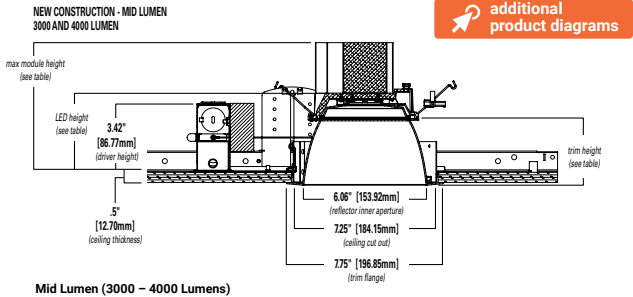
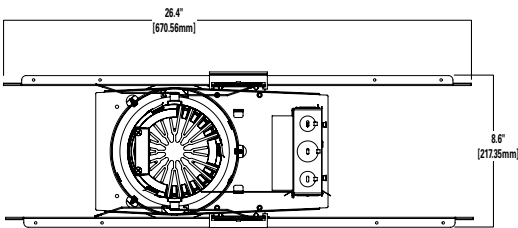
Product Features



Control Compatibility



Dimensional and Mounting Details



HALO Commercial

HC6 | HM6 | 61 | 61PS

Mounting Frame Order Information

Sample Number: HC620D010REM7 - HM60525835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC6 = 6" new construction downlight housing HC6CP = 6" new construction housing, Chicago Plenum - CCEA compliant	05 = 500 lm 07 = 750 lm 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm ⁽⁷⁾ 50 = 5000 lm ⁽⁷⁾ 55 = 5500 lm ⁽⁷⁾ 60 = 6000 lm ⁽⁷⁾	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-5000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%- 100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000lm models only ⁽¹⁾ Canada Option 5500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lm models only ⁽¹⁾ DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details. ⁽¹⁾	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(1) (2) (6)} IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(1) (2) (6)} BOD7ST = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} WTA = Factory WaveLinX PRO Tilemount Sensor Kit ⁽⁴⁾ WTK = Factory WaveLinX LITE Tilemount Sensor Kit ⁽⁴⁾ WPN = WaveLinX PRO Wireless Node without Sensor ⁽⁹⁾ WLN = WaveLinX LITE Wireless Node without Sensor ⁽¹⁰⁾ REM7V = 7 watt emergency battery pack with remote test / indicator light, use with DLV only ^{(1) (2) (3) (6)} REM14V = 14 watt emergency battery pack with remote test / indicator light, use with DLV only ^{(1) (2) (3) (6)} IEM7V = 7 watt emergency battery pack with integral test / indicator light, use with DLV only ^{(1) (2) (3) (6)} IEM14V = 14 watt emergency battery pack with integral test / indicator light, use with DLV only ^{(1) (2) (3) (6)}	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long HS46 = Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installing housing and trim) H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA WTA = Field WaveLinX PRO Tilemount Sensor Kit ⁽⁴⁾ WTK = Field WaveLinX LITE Tilemount Sensor Kit ⁽⁴⁾
Notes	Notes (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5	Notes (1) Not available with CP models	Notes (1) Not available with CP models (2) Not available with D010347 (347V models) (3) ULus for U.S. only (4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.) (5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (9) WPN = WaveLinX PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX PRO specifications.) (10) WLN = WaveLinX LITE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX LITE specifications.)	Notes (4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.) (5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.)

Quick Spec Emergency Mounting Frame Order Information

Sample Number:

Quick Spec Emergency Mounting Frame: RR-HC620D010REM7

LED module and reflectors are ordered separately.

Order separately: LED Module: HM60525835 | Reflector: 61MDC

Select from the Quick Spec Mounting
Frame ordering information to receive the
Fast Delivery option for the frame.

Quick Spec Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
RR = East Region BRR = West Region	HC6 = 6" new construction downlight housing	10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 30 = 3000 lm 40 = 4000 lm	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(2) (6)} REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(2) (6)} IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(2) (6)} IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(2) (6)}	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long
Notes	Notes	Notes	Notes	Notes (2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C	Notes

HALO Commercial

HC6 | HM6 | 61 | 61PS

LED Module Order Information

LED Module	Lumens	CRI/CCT	
HM6 = 6" LED Modules For use with HC6 - HC6CP New Construction housings only	0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4560 = 4500-6000 lumen	827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K	927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K
Notes	Notes	Notes	

Trim Order Information

Reflector	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" conical reflector	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Baffle	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" baffle reflector	WD = wide 65° beam angle 1.28 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option available with BB	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Reflector	Distribution ⁽⁸⁾	Finish	Flange
61PS = 6" non-conductive polymer 'dead front' conical reflector⁽⁹⁾	MD = medium 60° beam angle 1.10 SC (nominal)	W = White	Blank = White flange standard with W reflector
Notes (9) 61PS is 1000-2000 lumens Non-IC rated. 500 & 750 lumens IC rated. 61PS is not for use over 2000lm in Non-IC or over 750lm in IC.	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes

IEM Reflector	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM reflector for integral emergency only	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

IEM Baffle	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM baffle reflector for integral emergency only	WD = wide 65° beam angle 1.28 SC (nominal)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option with BB	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Submitted by Quantum Lighting	Job Name: SCHOOL HOUSE ACADEMY Engineer: BREINHOLT POWER ENGINEERING (Lehi)	Catalog Number: HC620D010 HM60525835 61MDC (HALO, PDS) Notes:	Type: F1 NQLG24-121650
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HALO Commercial

HC6 | HM6 | 61 | 61PS

Product Specifications

Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling (with mounting bars removed)
- Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflector

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 2000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

Reflector/Module Retention

- Reflector/module assembly is securely retained in the housing with two torsion springs

Driver

- Field-replaceable constant current driver provides low noise operation
- Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options

- 347VAC 50/60Hz; 1% dimming on 0 -10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Quick Spec emergency ordering option for quick-turn projects

Connected Lighting System

Two WaveLinX connected solutions to choose from. Refer to WaveLinX system specifications and application guides for details.

WaveLinX PRO Tilemount Sensor Kit

- WaveLinX PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinX PRO Wireless Node

- WaveLinX PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinX LITE Tilemount Sensor Kit

- WaveLinX LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinX LITE Wireless Node

- WaveLinX LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinX Tilemount Sensor Kits Application

- The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- **Note: WaveLinX PRO devices are only compatible with the WaveLinX PRO system.**
- **Note: WaveLinX LITE devices are only compatible with the WaveLinX LITE system.**

Junction Box

- Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
 - Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
 - IP20 - Above finished ceiling; IP65 - Below finished ceiling
 - Non-Insulated ceiling (Non-IC) rated for 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
 - Insulated ceiling (IC) rated for 500, 750, 1000, 1500, 2000 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
 - Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
 - Marked Spacing Center to Center of Adjacent Luminaires = 36"
 - Center of Luminaire to Building Member = 18"
 - Minimum overhead = 0.5"
 - Airtight per ASTM-E283-04
 - Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
 - EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
 - Contains no mercury or lead and RoHS compliant
 - Photometric testing completed in accordance of IES LM-79-08
 - Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
 - 500, 750, 1,000, 1,500 and 2,000 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
 - May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
 - ENERGY STAR® certified, reference certified light fixtures database
- *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal



Job Name:
SCHOOL HOUSE ACADEMY
Engineer: BREINHOLT POWER
ENGINEERING (Lehi)

Catalog Number:

HC620D010 HM60525835 61MDC
(HALO, PDS)

Notes:

Type:**F1**

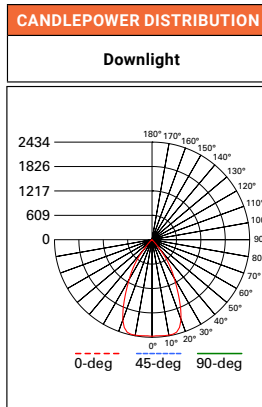
NQLG24-121650

HALO Commercial**HC6 | HM6 | 61 | 61PS****Photometric Data**

View IES files

NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)	
Test Number	P581878
Housing	HC620D010
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7



CONE OF LIGHT

MH	FC	L	W
5.5'	80.2	5	5
7'	49.5	6.4	6.4
8'	37.9	7.4	7.4
9'	30	8.2	8.2
10'	24.3	9.2	9.2
12'	16.9	11	11

CANDELA TABLE

Degrees Vertical	Candela
0	2427
5	2422
15	2405
25	1621
35	761
45	118
55	12
65	3
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

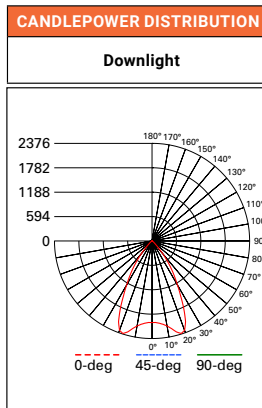
Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9187
55	1118
65	376
75	318
85	0

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)	
Test Number	P581875
Housing	HC620D010
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8



CONE OF LIGHT

MH	FC	L	W
5.5'	68.7	5.6	5.6
7'	42.4	7.2	7.2
8'	32.5	8.2	8.2
9'	25.7	9.4	9.4
10'	20.8	10.4	10.4
12'	14.4	12.4	12.4

CANDELA TABLE

Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1671	72.4
0-40	2163	93.8
0-60	2301	99.7
0-90	2307	100
90-180	0	0
0-180	2307	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0

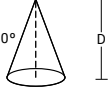
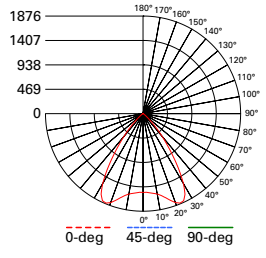
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HC6 | HM6 | 61 | 61PS

Photometric Data

[View IES files](#)

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT				CANDELA TABLE		ZONAL LUMEN SUMMARY		
Test Number	P581885	Downlight						Degrees Vertical	Candela	Zone	Lumens	% Fixture
Housing	HC620D010			MH	FC	L	W	0	1526	0-30	1461	61.9
Module	HM60525835			5.5'	50.5	7	7	5	1540	0-40	2105	89.2
Reflector	61WDC			7'	31.2	8.8	8.8	15	1685	0-60	2351	99.6
Lumens	2359 Lm			8'	23.9	10.2	10.2	25	1861	0-90	2359	100
Efficacy	118 Lm/W			9'	18.8	11.4	11.4	35	1027	90-180	0	0
SC	1.28			10'	15.3	12.8	12.8	45	252	0-180	2359	100
UGR	11.6			12'	10.6	15.4	15.4	55	32			
								65	6			
								75	2			
								85	0			
								90	0			

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	19506
55	3078
65	765
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.



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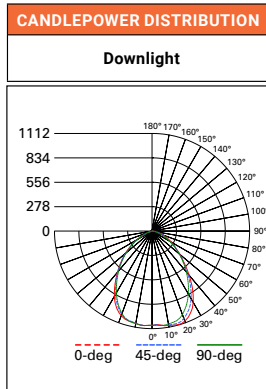
HC6 | HM6 | 61 | 61PS

Photometric Data

[View IES files](#)

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P581882
Housing	HC620D010
Module	HM60525835
Reflector	61RWWC
Lumens	2179 Lm
Efficacy	109 Lm/W
SC	1.15



CANDELA TABLE	
Degrees Vertical	Candela
0	1080
5	1081
15	1112
25	1034
35	800
45	514
55	319
65	184
75	85
85	12
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	849	39
0-40	1313	60.2
0-60	1978	90.8
0-90	2179	100
90-180	0	0
0-180	2179	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	39810
55	30479
65	23907
75	17983
85	7359

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES

2.5' from wall (distance from fixture along wall)							
1	19.3	13.8	6.1	2.2	0.7	0.3	0.1
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6
3	27.6	22.5	13.8	7.3	3.7	1.9	1
4	21	18.2	12.4	7.4	4.2	2.4	1.4
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5
8	4.7	4.6	4.1	3.4	2.7	2	1.4
9	3.4	3.3	3.1	2.7	2.2	1.7	1.3
10	2.5	2.5	2.4	2.1	1.8	1.4	1.1

MULTIPLE UNIT FOOTCANDLES

2.5' from wall (Distance from fixture along wall)				2.5' from wall (Distance from fixture along wall)		
1	21.5	19.1	21.5	20	12.1	20
2	34.7	34.4	34.7	31.6	24.6	31.6
3	34.9	36	34.9	31.3	27.6	31.3
4	28.4	30.7	28.4	25.2	24.8	25.2
5	21	23.2	21	18.6	19.8	18.6
6	15.2	16.8	15.2	13.4	15	13.4
7	11	12	11	9.9	11	9.9
8	8.1	8.7	8.1	7.4	8.2	7.4
9	6.1	6.5	6.1	5.6	6.2	5.6
10	4.6	4.9	4.6	4.3	4.7	4.3

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

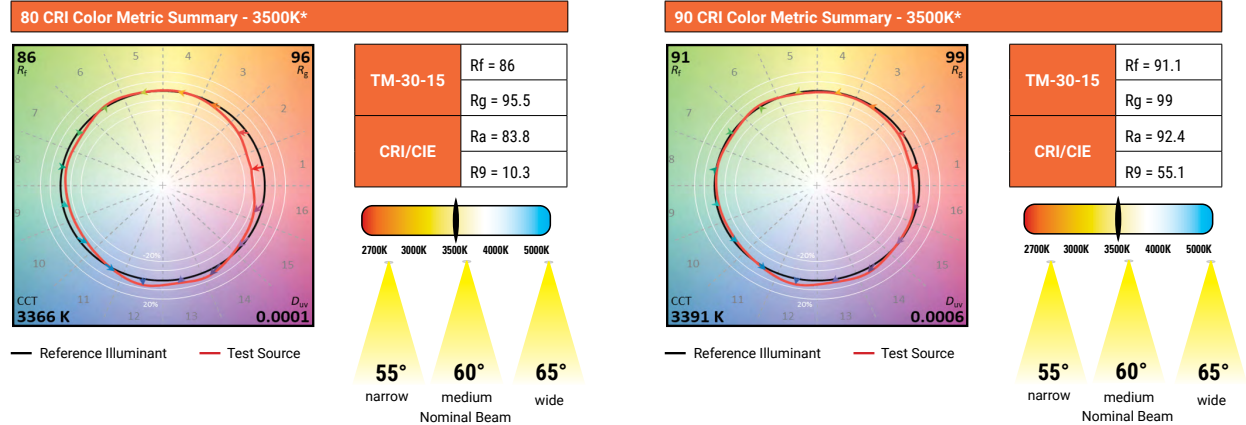
Note: Refer to IES files for more product data.

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Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen		5500 lumen		6000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

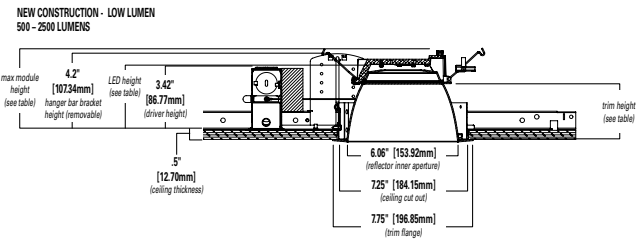
Notes:

* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

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Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 – 2500 LUMENS



Low Lumen (500 – 2500 Lumens)*

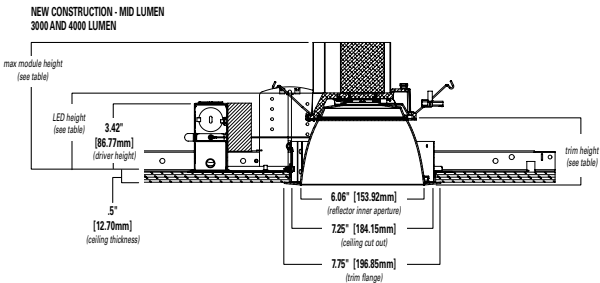
Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"



Low Lumen Module

*Max. height w/removable hanger bar bracket 4.2"

NEW CONSTRUCTIONS - MID LUMEN 3000 – 4000 LUMENS



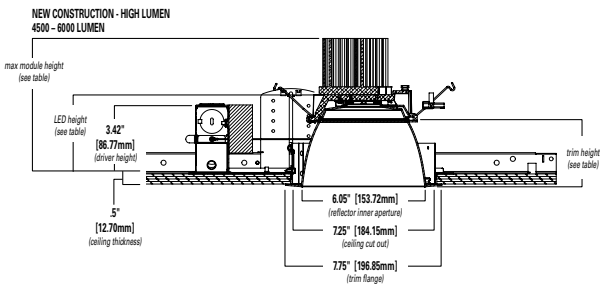
Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"



Mid Lumen Module

NEW CONSTRUCTIONS - HIGH LUMEN 4500 – 6000 LUMENS



High Lumen (4500 – 6000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.9"	3.4"	3.8"
Medium	7.0"	3.5"	3.9"
Wide	6.8"	3.3"	3.7"
Baffle	6.8"	3.3"	3.7"



High Lumen Module



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Connected Solutions



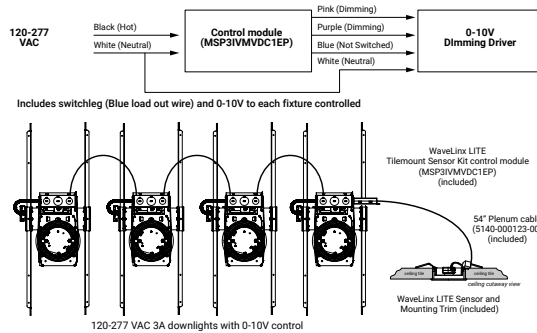
WaveLinX LITE - WTK Tilemount Sensor

WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details



WaveLinX LITE WTK Tilemount Wiring Diagram

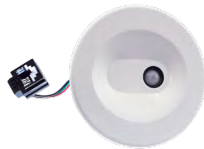


WaveLinX LITE Bluetooth Enabled System



WaveLinX PRO – WTA Tilemount Sensor

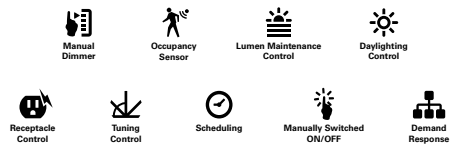
WaveLinX PRO devices only compatible with the WaveLinX PRO system.



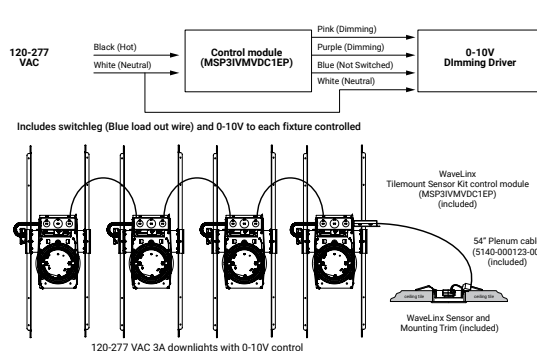
- WaveLinX PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



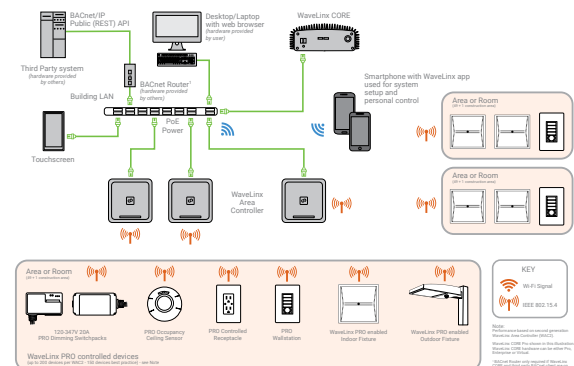
WaveLinX mobile app settings



WaveLinX WTA Tilemount Wiring Diagram



WaveLinX CORE Building Management Integration





Job Name:
SCHOOL HOUSE ACADEMY
Engineer: BREINHOLT POWER
ENGINEERING (Lehi)

Catalog Number:
HC620D010 HM60525835 61MDC
(HALO, PDS)
Notes:

Type:

F1

NQLG24-121650

HALO Commercial

HC6 | HM6 | 61 | 61PS

Connected Solutions



WaveLinX LITE Wireless Node - WLN

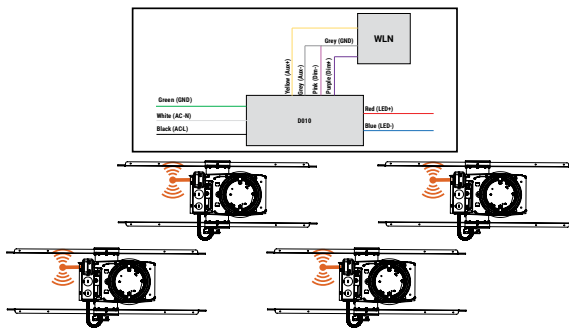
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinX system specifications for details

WaveLinX mobile
app settings



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System



WaveLinX PRO Wireless Node - WPN

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

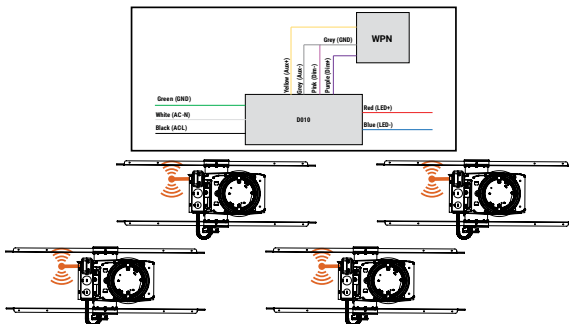
- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



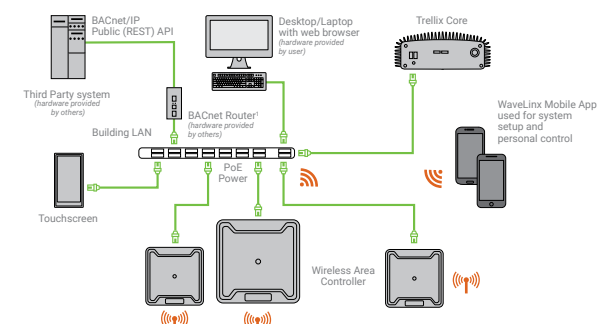
WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration



Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO Commercial

HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 4](#)
- Photometric Data [page 5](#)
- Energy & Performance Data [page 8](#)
- Connected Systems [page 10](#)
- Product Warranty

Product Certification



Product Features



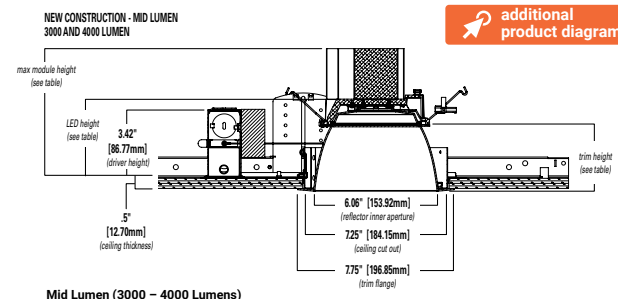
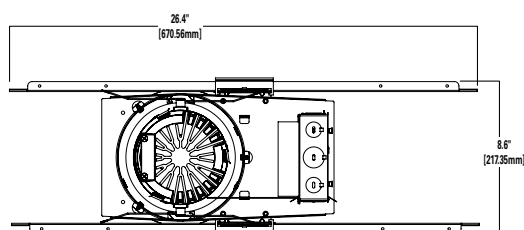
Control Compatibility



Top Product Features

- New construction/remodel series; 500 to 6,000 lumens
- Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Mounting frame converts to remodel that installs from below the ceiling
- Quick Spec emergency backup mounting frames - fast delivery option

Dimensional and Mounting Details



Mid Lumen (3000 ~ 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

HALO Commercial

HC6 | HM6 | 61 | 61PS

Mounting Frame Order Information

Sample Number: HC620D010REM7 - HM60525835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC6 = 6" new construction downlight housing HC6CP = 6" new construction housing, Chicago Plenum - CCEA compliant	05 = 500 lm 07 = 750 lm 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm ⁽⁷⁾ 50 = 5000 lm ⁽⁷⁾ 55 = 5500 lm ⁽⁷⁾ 60 = 6000 lm ⁽⁷⁾	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-5000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000lm models only ⁽¹⁾ Canada Option 5500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lm models only ⁽¹⁾ DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details. ⁽¹⁾	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(1) (2) (6)} IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(1) (2) (6)} BOD7ST = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} WTA = Factory WaveLinX PRO Tilemount Sensor Kit ⁽⁴⁾ WTK = Factory WaveLinX LITE Tilemount Sensor Kit ⁽⁴⁾ WPN = WaveLinX PRO Wireless Node without Sensor ⁽⁹⁾ WLN = WaveLinX LITE Wireless Node without Sensor ⁽¹⁰⁾ REM7V = 7 watt emergency battery pack with remote test / indicator light, use with DLV only ^{(1) (2) (3) (6)} REM14V = 14 watt emergency battery pack with remote test / indicator light, use with DLV only ^{(1) (2) (3) (6)} IEM7V = 7 watt emergency battery pack with integral test / indicator light, use with DLV only ^{(1) (2) (3) (6)} IEM14V = 14 watt emergency battery pack with integral test / indicator light, use with DLV only ^{(1) (2) (3) (6)}	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long HS46 = Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installing housing and trim) H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA WTA = Field WaveLinX PRO Tilemount Sensor Kit ⁽⁴⁾ WTK = Field WaveLinX LITE Tilemount Sensor Kit ⁽⁵⁾
Notes	Notes (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5	Notes (1) Not available with CP models	Notes (1) Not available with CP models (2) Not available with D010347 (347V models) (3) ULus for U.S. only (4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.) (5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (9) WPN = WaveLinX PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX PRO specifications.) (10) WLN = WaveLinX LITE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX LITE specifications.)	Notes (4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.) (5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.)

Quick Spec Emergency Mounting Frame Order Information

Sample Number:

Quick Spec Emergency Mounting Frame: RR-HC620D010REM7

LED module and reflectors are ordered separately.

Order separately: LED Module: HM60525835 | Reflector: 61MDC

Select from the Quick Spec Mounting Frame ordering information to receive the **Fast Delivery** option for the frame.

Quick Spec Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
RR = East Region BRR = West Region	HC6 = 6" new construction downlight housing	10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 30 = 3000 lm 40 = 4000 lm	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(2) (6)} REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(2) (6)} IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(2) (6)} IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(2) (6)}	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long
Notes	Notes	Notes	Notes	Notes (2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C	Notes

HALO Commercial

HC6 | HM6 | 61 | 61PS

LED Module Order Information

LED Module	Lumens	CRI/CCT	
HM6 = 6" LED Modules For use with HC6 - HC6CP New Construction housings only	0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4560 = 4500-6000 lumen	827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K	927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K
Notes	Notes	Notes	

Trim Order Information

Reflector	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" conical reflector	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Baffle	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" baffle reflector	WD = wide 65° beam angle 1.28 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option available with BB	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Reflector	Distribution ⁽⁸⁾	Finish	Flange
61PS = 6" non-conductive polymer 'dead front' conical reflector⁽⁹⁾	MD = medium 60° beam angle 1.10 SC (nominal)	W = White	Blank = White flange standard with W reflector
Notes (9) 61PS is 1000-2000 lumens Non-IC rated. 500 & 750 lumens IC rated. 61PS is not for use over 2000lm in Non-IC or over 750lm in IC.	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes

IEM Reflector	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM reflector for integral emergency only	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

IEM Baffle	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM baffle reflector for integral emergency only	WD = wide 65° beam angle 1.28 SC (nominal)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option with BB	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Submitted by Quantum Lighting	Job Name: SCHOOL HOUSE ACADEMY Engineer: BREINHOLT POWER ENGINEERING (Lehi)	Catalog Number: HC620D010IEM14 HM60525835 61MDCIEM (HALO, PDS) Notes:	Type: F1E NQLG24-121650
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HALO Commercial

HC6 | HM6 | 61 | 61PS

Product Specifications

- Housing Frame

 - Boat shaped galvanized steel plaster frame with adjustable plaster lip
 - Accommodates 1/2" to 1-1/2" thick ceilings
 - Installs in new construction or from below the finished ceiling (non-accessible) for remodeling (with mounting bars removed)
 - Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

 - Adjusts 2" vertically from above and below the ceiling
 - Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
 - Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

 - Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
 - Centering detents allow for consistent positioning of fixtures

LED Module

 - Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
 - Available in 80 or 90 color rendering index (CRI)
 - Color accuracy within 3 SDCM provides color consistency and uniformity
 - 90 CRI option: R9>50 (refer to chromaticity information for details)
 - Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
 - Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
 - Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
 - Integral diffuse lens provides visual shielding
 - Integral connector allows quick connection to housing flex

Reflector

 - Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
 - Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 2000 lumen max. in Non-IC)
 - Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
 - Reflectors attach to LED module with three speed clamps
 - Available in multiple painted or plated finishes

Reflector/Module Retention

 - Reflector/module assembly is securely retained in the housing with two torsion springs

Driver

 - Field-replaceable constant current driver provides low noise operation
 - Universal 120-277VAC 50/60Hz input standard
 - Continuous, 1% to 100% dimming with 0-10V analog control
 - Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
 - Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)
- Canada Options

 - 347VAC 50/60Hz; 1% dimming on 0 -10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
 - 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

Emergency Option

 - Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
 - Available with integral or remote charge indicator and test switch
 - Available Self-Test (self-diagnostic) with remote charge indicator and test switch
 - Quick Spec emergency ordering option for quick-turn projects

Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit

 - WaveLinx PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node

 - WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit

 - WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node

 - WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application

 - The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
 - The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
 - Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.**
 - Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.**
- Junction Box

 - Galvanized steel junction box
 - 20 in³ internal volume excluding voltage barrier
 - 25 in³ internal total volume
 - Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
 - Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
 - Three 1/2" and two 3/4" trade size pry-outs available
 - Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

 - cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
 - Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
 - IP20 - Above finished ceiling; IP65 - Below finished ceiling
 - Non-Insulated ceiling (Non-IC) rated for 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
 - Insulated ceiling (IC) rated for 500, 750, 1000, 1500, 2000 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
 - Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
 - Marked Spacing Center to Center of Adjacent Luminaires = 36"
 - Center of Luminaire to Building Member = 18"
 - Minimum overhead = 0.5"
 - Airtight per ASTM-E283-04
 - Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
 - EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
 - Contains no mercury or lead and RoHS compliant
 - Photometric testing completed in accordance of IES LM-79-08
 - Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
 - 500, 750, 1,000, 1,500 and 2,000 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
 - May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
 - ENERGY STAR® certified, reference certified light fixtures database

*Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

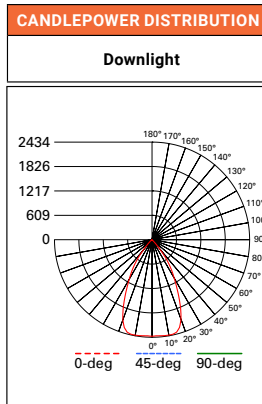
 - Five year limited warranty, consult website for details. www.cooperlighting.com/legal

**HALO Commercial****HC6 | HM6 | 61 | 61PS****Photometric Data**

View IES files

NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)	
Test Number	P581878
Housing	HC620D010
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7



CONE OF LIGHT

MH	FC	L	W
5.5'	80.2	5	5
7'	49.5	6.4	6.4
8'	37.9	7.4	7.4
9'	30	8.2	8.2
10'	24.3	9.2	9.2
12'	16.9	11	11

CANDELA TABLE

Degrees Vertical	Candela
0	2427
5	2422
15	2405
25	1621
35	761
45	118
55	12
65	3
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

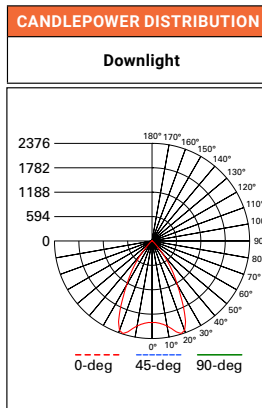
Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9187
55	1118
65	376
75	318
85	0

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)	
Test Number	P581875
Housing	HC620D010
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8



CONE OF LIGHT

MH	FC	L	W
5.5'	68.7	5.6	5.6
7'	42.4	7.2	7.2
8'	32.5	8.2	8.2
9'	25.7	9.4	9.4
10'	20.8	10.4	10.4
12'	14.4	12.4	12.4

CANDELA TABLE

Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1671	72.4
0-40	2163	93.8
0-60	2301	99.7
0-90	2307	100
90-180	0	0
0-180	2307	100

LUMINANCE

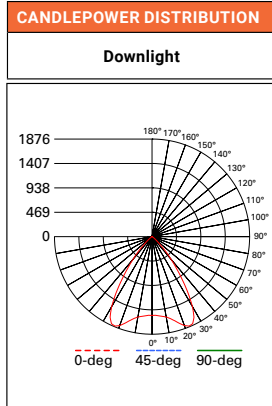
Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0

**HALO Commercial****HC6 | HM6 | 61 | 61PS****Photometric Data**

View IES files

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)	
Test Number	P581885
Housing	HC620D010
Module	HM60525835
Reflector	61WDC
Lumens	2359 Lm
Efficacy	118 Lm/W
SC	1.28
UGR	11.6



CONE OF LIGHT

MH	FC	L	W
5.5'	50.5	7	7
7'	31.2	8.8	8.8
8'	23.9	10.2	10.2
9'	18.8	11.4	11.4
10'	15.3	12.8	12.8
12'	10.6	15.4	15.4

CANDELA TABLE

Degrees Vertical	Candela
0	1526
5	1540
15	1685
25	1861
35	1027
45	252
55	32
65	6
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1461	61.9
0-40	2105	89.2
0-60	2351	99.6
0-90	2359	100
90-180	0	0
0-180	2359	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	19506
55	3078
65	765
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
 SC = Spacing Criteria
 UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

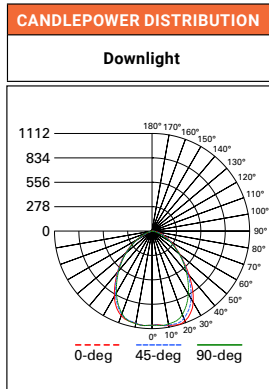
Note: Refer to IES files for more product data.

**HALO Commercial****HC6 | HM6 | 61 | 61PS****Photometric Data**

View IES files

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P581882
Housing	HC620D010
Module	HM60525835
Reflector	61RWWC
Lumens	2179 Lm
Efficacy	109 Lm/W
SC	1.15



CANDELA TABLE	
Degrees Vertical	Candela
0	1080
5	1081
15	1112
25	1034
35	800
45	514
55	319
65	184
75	85
85	12
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	849	39
0-40	1313	60.2
0-60	1978	90.8
0-90	2179	100
90-180	0	0
0-180	2179	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	39810
55	30479
65	23907
75	17983
85	7359

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES

2.5' from wall (distance from fixture along wall)							
	1	2	3	4	5	6	7
1	19.3	13.8	6.1	2.2	0.7	0.3	0.1
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6
3	27.6	22.5	13.8	7.3	3.7	1.9	1
4	21	18.2	12.4	7.4	4.2	2.4	1.4
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5
8	4.7	4.6	4.1	3.4	2.7	2	1.4
9	3.4	3.3	3.1	2.7	2.2	1.7	1.3
10	2.5	2.5	2.4	2.1	1.8	1.4	1.1

MULTIPLE UNIT FOOTCANDLES

2.5' from wall (Distance from fixture along 3')				2.5' from wall (Distance from fixture along 4')		
1	2	3	4	1	2	3
1	21.5	19.1	21.5	20	12.1	20
2	34.7	34.4	34.7	31.6	24.6	31.6
3	34.9	36	34.9	31.3	27.6	31.3
4	28.4	30.7	28.4	25.2	24.8	25.2
5	21	23.2	21	18.6	19.8	18.6
6	15.2	16.8	15.2	13.4	15	13.4
7	11	12	11	9.9	11	9.9
8	8.1	8.7	8.1	7.4	8.2	7.4
9	6.1	6.5	6.1	5.6	6.2	5.6
10	4.6	4.9	4.6	4.3	4.7	4.3

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

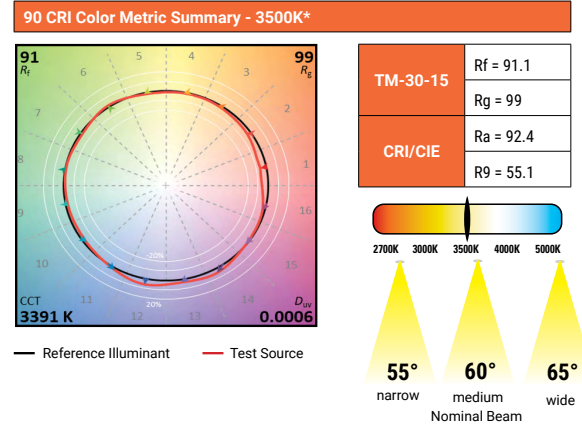
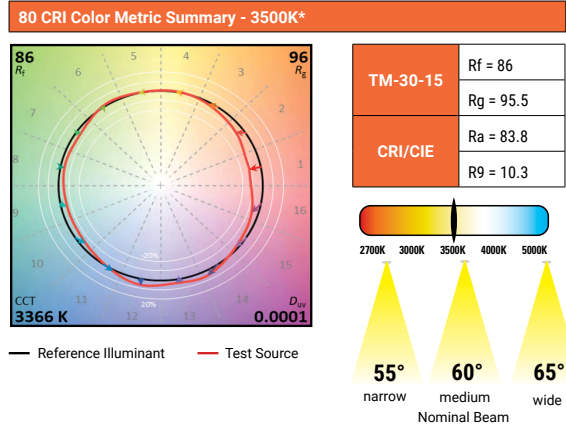
Note: Refer to IES files for more product data.

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Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen		5500 lumen		6000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

Notes:

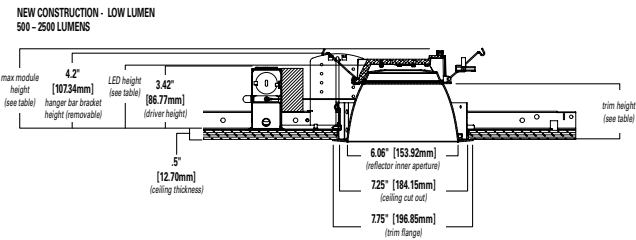
* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

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Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 – 2500 LUMENS



Low Lumen (500 – 2500 Lumens)*

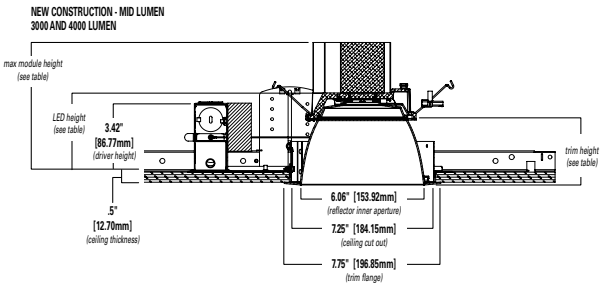
Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"



Low Lumen Module

*Max. height w/removable hanger bar bracket 4.2"

NEW CONSTRUCTIONS - MID LUMEN 3000 – 4000 LUMENS



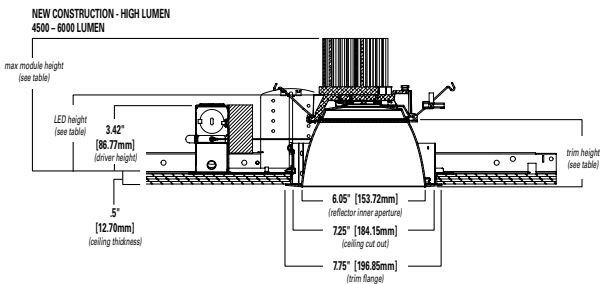
Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"



Mid Lumen Module

NEW CONSTRUCTIONS - HIGH LUMEN 4500 – 6000 LUMENS



High Lumen (4500 – 6000 Lumens)

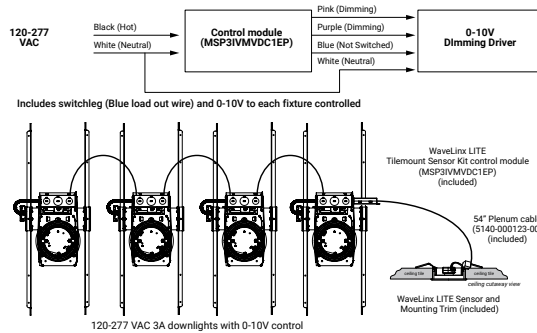
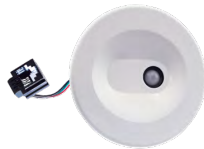
Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.9"	3.4"	3.8"
Medium	7.0"	3.5"	3.9"
Wide	6.8"	3.3"	3.7"
Baffle	6.8"	3.3"	3.7"



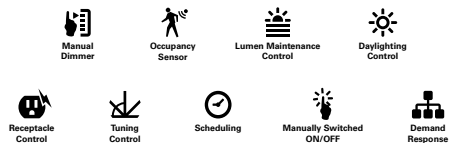
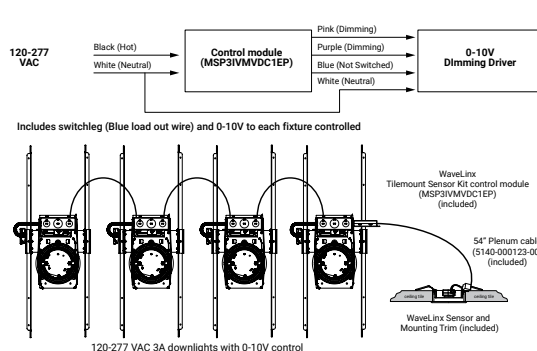
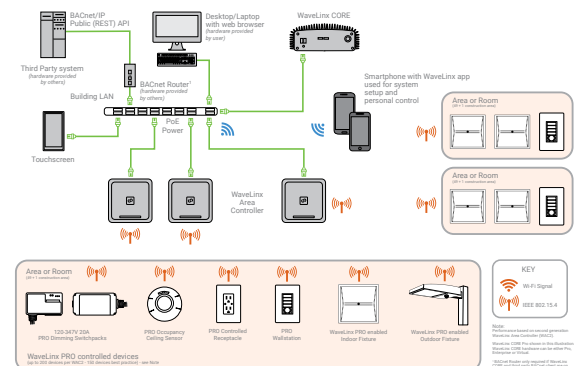
High Lumen Module

**HALO Commercial****HC6 | HM6 | 61 | 61PS****Connected Solutions****WaveLinX LITE - WTK Tilemount Sensor****WaveLinX LITE devices only compatible with the WaveLinX LITE system.**

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details

**WaveLinX LITE WTK Tilemount Wiring Diagram****WaveLinX LITE Bluetooth Enabled System****WaveLinX PRO – WTA Tilemount Sensor****WaveLinX PRO devices only compatible with the WaveLinX PRO system.**

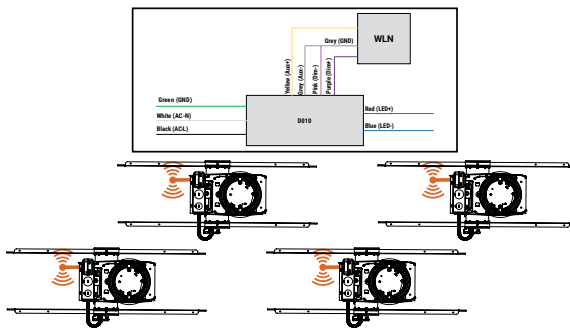
- WaveLinX PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

**WaveLinX mobile app settings****WaveLinX WTA Tilemount Wiring Diagram****WaveLinX CORE Building Management Integration**

**HALO Commercial****HC6 | HM6 | 61 | 61PS****Connected Solutions****WaveLinX LITE Wireless Node - WLN**

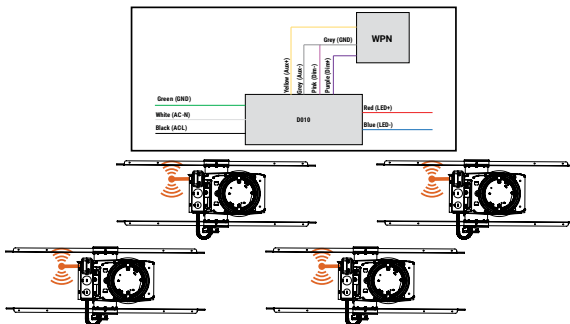
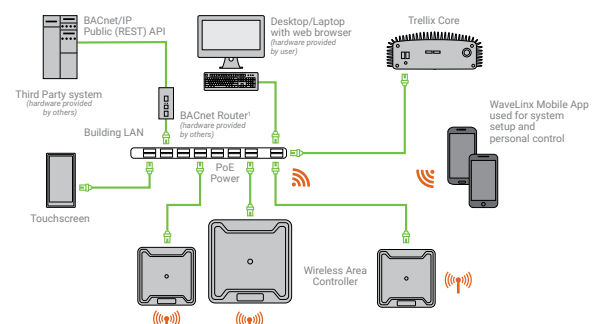
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinX system specifications for details

WaveLinX mobile app settings**WaveLinX LITE Wireless Node (WLN) Wiring Diagram****WaveLinX LITE Bluetooth Enabled System****WaveLinX PRO Wireless Node - WPN**

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

**WaveLinX mobile app settings****WaveLinX PRO Wireless Node (WPN) Wiring Diagram****WaveLinX CORE Building Management Integration**

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Energy and Performance Data [page 3](#)
- Control Options [page 4](#)

Product Certifications



Quick Facts

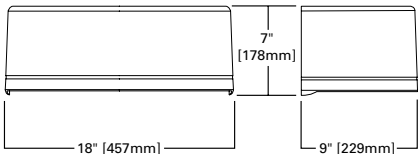
- 15 Optical Distributions
- Lumen packages range from 2,459 to 11,480 (20W - 95W)
- Efficacy up to 149 lumens per watt

Connected Systems

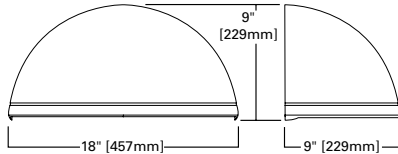
- WaveLinx
- Enlighted

Dimensional Details

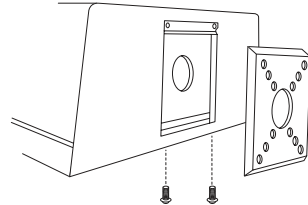
Cylinder



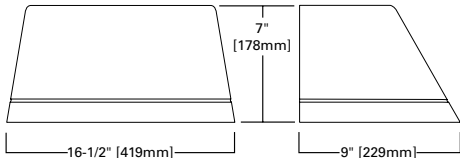
Quarter Sphere



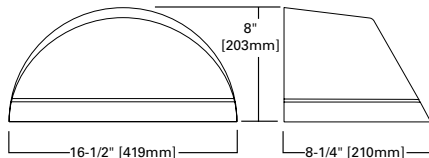
Hook -n- Lock



Trapezoid



Wedge



NOTES:
1. IDA Certified for 3000K CCT and warmer only.

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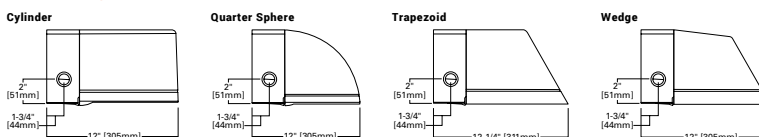
Impact Elite LED

Ordering Information

SAMPLE NUMBER: ISC-SAIF-740-U-T3-BZ

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge BAA-ISC=Impact Elite LED Small Cylinder Buy American Act Compliant ²³ TAA-ISC=Impact Elite LED Small Cylinder Trade Agreements Act Compliant ²³ BAA-ISS=Impact Elite LED Small Quarter Sphere Buy American Act Compliant ²³ TAA-ISS=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-IST=Impact Elite LED Small Trapezoid Buy American Act Compliant ²³ TAA-IST=Impact Elite LED Small Trapezoid Trade Agreements Act Compliant ²³ BAA-ISW=Impact Elite LED Small Wedge Buy American Act Compliant ²³ TAA-ISW=Impact Elite LED Small Wedge Trade Agreements Act Compliant ²³	SA1=1 Square (16 LED) PA1=1 Panel (24 LED) ²⁶	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA ²	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3, 4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V	SA1 Optics T2=Type II T3=Type III T4F1=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I PA1 Optics SWQ=Type V Square Wide T2R=Type II T2U=Type II Urban T3=Type III T4W=Type IV Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White RALXX=Custom Color ²⁷
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)			Accessories (Order Separately) ²⁴	
X=Driver Surge Protection (6kV) Only ¹⁷ 20K=Series 20kV UL 1449 Surge Protective Device CBP=Battery Pack with Back Box, Cold Weather Rated ^{14, 15} CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ¹⁴ HSS=Factory Installed House Side Shield ¹⁶ ULG=Uplight Glow ^{6, 7, 25} LCF=Light Square Trim Plate Painted to Match Housing TR=Tamper Resistant Hardware CC=Coastal Construction ²¹ HA=50°C High Ambient ⁸ AHD145=After Hours Dim, 5 Hours, 50% ⁹ AHD245=After Hours Dim, 6 Hours, 50% ⁹ AHD255=After Hours Dim, 7 Hours, 50% ⁹ AHD355=After Hours Dim, 8 Hours, 50% ⁹		BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2, 4, 7} SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{12, 22} SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ^{12, 22} SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ^{12, 22} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{7, 16, 17, 12} LWR-LW=Enlightened Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{6, 12, 13} LWR-LN=Enlightened Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{6, 12, 13} WLS2XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ^{7, 16, 20} WLS4XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{7, 16, 20} WPS2XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{7, 16, 20} WPS4XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{7, 16, 20}			MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ^{7, 19}	
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Not available with ULG option. 3. Choose Drive Current "B" for Amber 590nm, which is provided at 500mA only 4. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. Not available with ISS or ISW. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1000mA or less. 9. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information. 10. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocell. 13. Enlightened wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes. 15. Must specify 120V or 277V. 16. Not for use with 5WQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 17. Removes additional surge module. 18. Replace XX with sensor color (WH, BZ, or BK). 19. Requires PR7. 20. For WaveLinx applications, WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Gateway not required for WaveLinx Life Commercial (LC) applications. 21. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 22. Smart device with mobile application required to change system defaults. See controls section for details. 23. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 25. Only available in 3000K, 4000K or 5000K CCT. 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx. 27. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.						

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration

Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

- Two black oxide coated Allen set screws concealed but accessible from below

Finish

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

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Impact Elite LED

Energy and Performance Data

 View Impact Elite IES files

1 Light Square (SA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K, 70 CRI)													
T2	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
T3	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
T4FT	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
T4W	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
SL2	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
SL3	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
SL4	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
SLL	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
RW	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

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Impact Elite LED

1 Light Panel (PA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36.4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
Current (A)	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K, 70 CRI)													
T2R	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
T2U	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
T3	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
T4W	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
5WQ	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

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Impact Elite LED

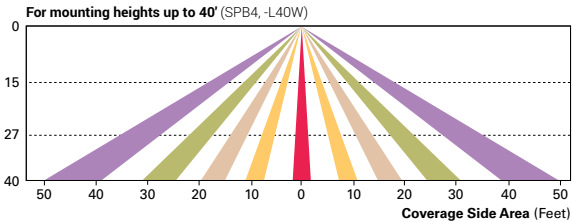
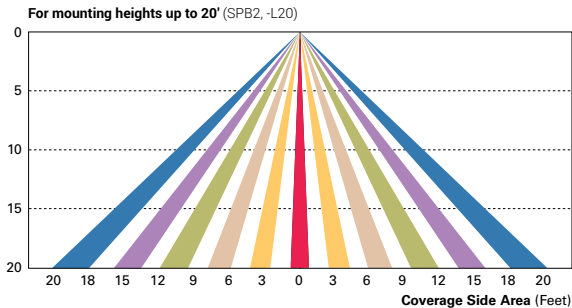
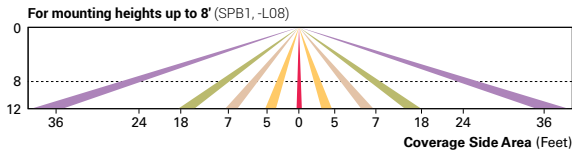
Control Options

0-10V
This fixture is offered standard with 0-10V dimming driver(s).

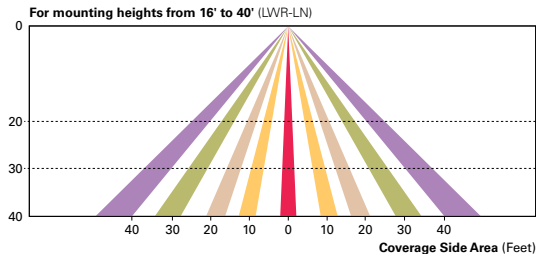
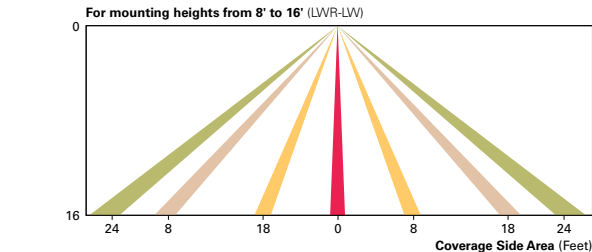
Photocontrol (BPC and PR7)
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

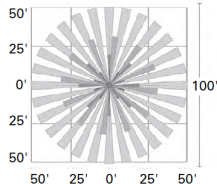
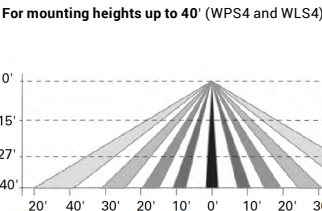
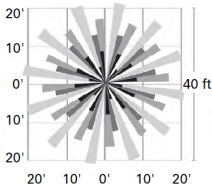
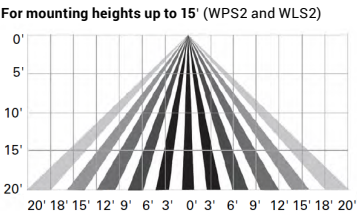
Dimming Occupancy Sensor (SPB, MS/DIM-LXX)
These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinX Wireless Control and Monitoring System
Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.



Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

Impact Elite LED

Wall Mount Luminaire



Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Energy and Performance Data [page 3](#)
- Control Options [page 4](#)

Product Certifications



Quick Facts

- 15 Optical Distributions
- Lumen packages range from 2,459 to 11,480 (20W - 95W)
- Efficacy up to 149 lumens per watt

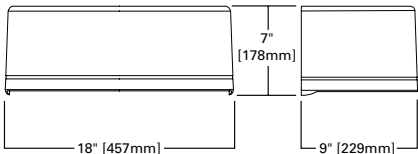


Connected Systems

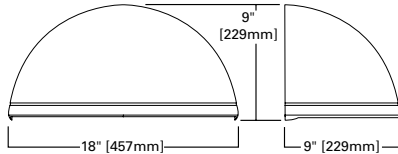
- WaveLinx
- Enlighted

Dimensional Details

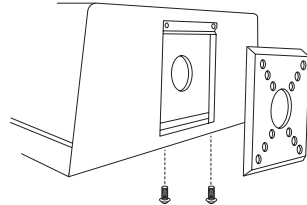
Cylinder



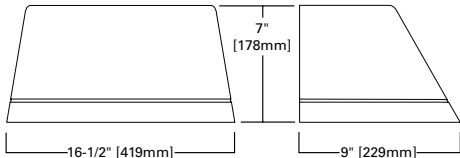
Quarter Sphere



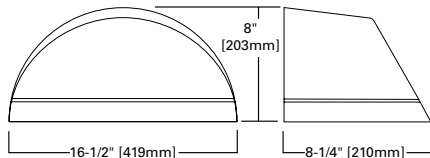
Hook -n- Lock



Trapezoid



Wedge



NOTES:
1. IDA Certified for 3000K CCT and warmer only.

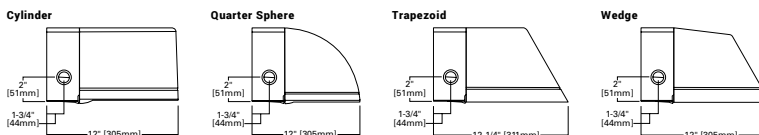
McGraw-Edison

Impact Elite LED

Ordering Information
SAMPLE NUMBER: ISC-SAIF-740-U-T3-BZ

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge BAA-ISC=Impact Elite LED Small Cylinder Buy American Act Compliant ²³ TAA-ISC=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-ISS=Impact Elite LED Small Quarter Sphere Buy American Act Compliant ²³ TAA-ISS=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-IST=Impact Elite LED Small Trapezoid Buy American Act Compliant ²³ TAA-IST=Impact Elite LED Small Trapezoid Trade Agreements Act Compliant ²³ BAA-ISW=Impact Elite LED Small Wedge Buy American Act Compliant ²³ TAA-ISW=Impact Elite LED Small Wedge Trade Agreements Act Compliant ²³	SA1=1 Square (16 LED) PA1=1 Panel (24 LED) ²⁶ D=800mA E=1000mA F=1200mA ²	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA ² 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3,4}	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3,4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V	SA1 Optics T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I PA1 Optics 5WQ=Type V Square Wide T2R=Type II T2U=Type II Urban T3=Type III T4W=Type IV Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White RALXX=Custom Color ²⁷
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)		Accessories (Order Separately) ²⁴		
X=Driver Surge Protection (6kV) Only ¹⁷ 20K=Series 20kV UL 1449 Surge Protective Device CBP=Battery Pack with Back Box, Cold Weather Rated ^{14,15} CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ¹⁴ HSS=Factory Installed House Side Shield ¹⁶ ULG=Uplight Glow ^{6,7,25} LCF=Light Square Trim Plate Painted to Match Housing TR=Tamper Resistant Hardware CC=Coastal Construction ²¹ HA=50°C High Ambient ⁸ AHD145=After Hours Dim, 5 Hours, 50% ⁹ AHD245=After Hours Dim, 6 Hours, 50% ⁹ AHD255=After Hours Dim, 7 Hours, 50% ⁹ AHD355=After Hours Dim, 8 Hours, 50% ⁹		BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,4,7} SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{12,22} SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ^{12,22} SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ^{12,22} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{7,10,11,12} LWR-LW=Enlightened Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{6,12,13} LWR-LN=Enlightened Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{6,12,13} WLS2XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ^{7,18,20} WLS4XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{7,18,20} WPS2XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{7,18,20} WPS4XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{7,18,20}		MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ^{7,19}		
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Not available with ULG option. 3. Choose Drive Current "B" for Amber 590nm, which is provided at 500mA only 4. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. Not available with ISS or ISW. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1000mA or less. 9. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information. 10. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocell. 13. Enlightened wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates daylight for 90-minutes. 15. Must specify 120V or 277V. 16. Not for use with 5WQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 17. Removes additional surge module. 18. Replace XX with sensor color (WH, BZ, or BK). 19. Requires PR7. 20. For WaveLinx applications, WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Gateway not required for WaveLinx Life Commercial (LC) applications. 21. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 22. Smart device with mobile application required to change system defaults. See controls section for details. 23. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 25. Only available in 3000K, 4000K or 5000K CCT. 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx. 27. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.						

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

- Two black oxide coated Allen set screws concealed but accessible from below

Finish

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

McGraw-Edison

Impact Elite LED

Energy and Performance Data

 View Impact Elite IES files

1 Light Square (SA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K, 70 CRI)													
T2	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
T3	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
T4FT	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
T4W	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
SL2	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
SL3	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
SL4	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
SLL	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
RW	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

McGraw-Edison

Impact Elite LED

1 Light Panel (PA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36.4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
Current (A)	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K, 70 CRI)													
T2R	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
T2U	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
T3	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
T4W	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
5WQ	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



McGraw-Edison

Impact Elite LED

Control Options

0-10V

This fixture is offered standard with 0-10V dimming driver(s).

Photocontrol (BPC and PR7)

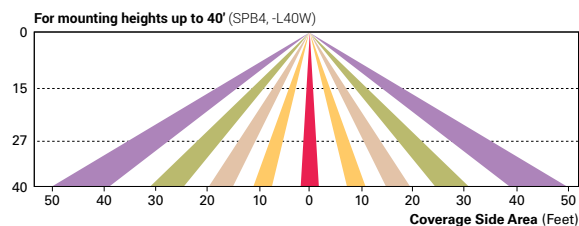
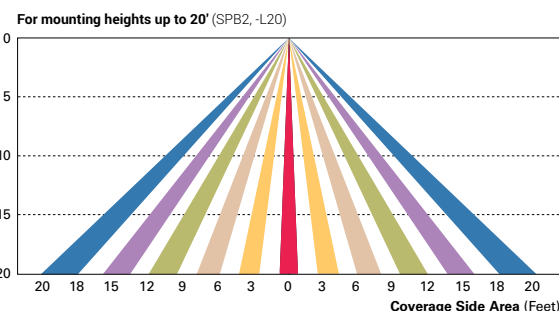
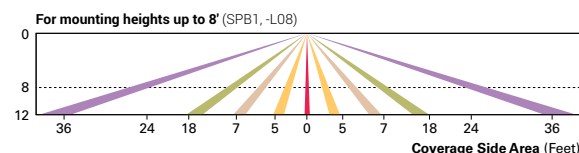
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

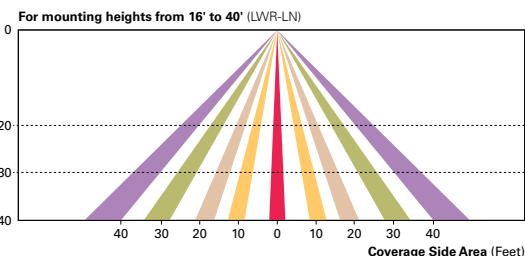
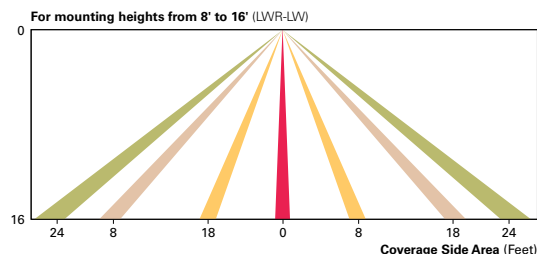
Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

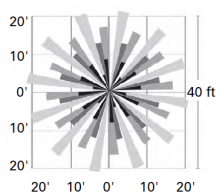
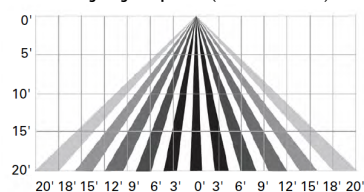
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



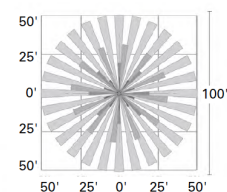
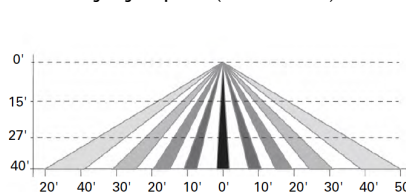
WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2)



For mounting heights up to 40' (WPS4 and WLS4)



Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Energy and Performance Data [page 3](#)
- Control Options [page 4](#)

Product Certifications



Quick Facts

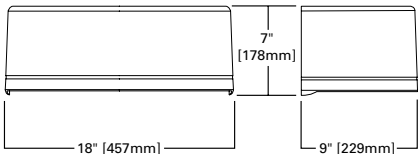
- 15 Optical Distributions
- Lumen packages range from 2,459 to 11,480 (20W - 95W)
- Efficacy up to 149 lumens per watt

Connected Systems

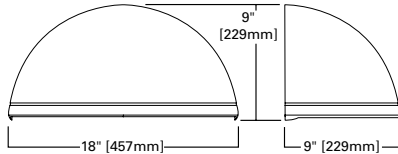
- WaveLinx
- Enlighted

Dimensional Details

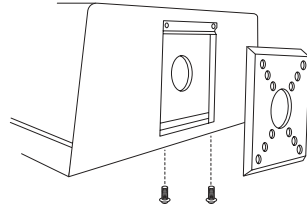
Cylinder



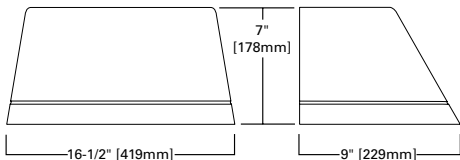
Quarter Sphere



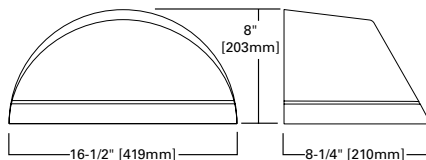
Hook -n- Lock



Trapezoid



Wedge



NOTES:
1. IDA Certified for 3000K CCT and warmer only.

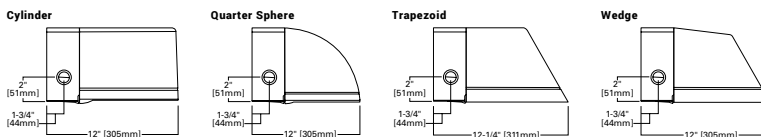
McGraw-Edison

Impact Elite LED

Ordering Information
SAMPLE NUMBER: ISC-SAIF-740-U-T3-BZ

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge BAA-ISC=Impact Elite LED Small Cylinder Buy American Act Compliant ²³ TAA-ISC=Impact Elite LED Small Cylinder Trade Agreements Act Compliant ²³ BAA-ISS=Impact Elite LED Small Quarter Sphere Buy American Act Compliant ²³ TAA-ISS=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-IST=Impact Elite LED Small Trapezoid Buy American Act Compliant ²³ TAA-IST=Impact Elite LED Small Trapezoid Trade Agreements Act Compliant ²³ BAA-ISW=Impact Elite LED Small Wedge Buy American Act Compliant ²³ TAA-ISW=Impact Elite LED Small Wedge Trade Agreements Act Compliant ²³	SA1=1 Square (16 LED) PA1=1 Panel (24 LED) ²⁶ A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA ²	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3,4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V	SA1 Optics T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I PA1 Optics SWQ=Type V Square Wide T2R=Type II T2U=Type II Urban T3=Type III T4W=Type IV Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White RALXX=Custom Color ²⁷	
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)		Accessories (Order Separately) ²⁴		
X=Driver Surge Protection (6kV) Only ¹⁷ 20K=Series 20kV UL 1449 Surge Protective Device CBP= Battery Pack with Back Box, Cold Weather Rated ^{14,15} CBP-CEC= Battery Pack with Back Box, Cold Weather Rated, CEC compliant ¹⁴ HSS= Factory Installed House Side Shield ¹⁶ ULG= Uplight Glow ^{6,7,25} LCF= Light Square Trim Plate Painted to Match Housing TR= Tamper Resistant Hardware CC= Coastal Construction ²¹ HA= 50°C High Ambient ⁸ AHD145= After Hours Dim, 5 Hours, 50% ⁹ AHD245= After Hours Dim, 6 Hours, 50% ⁹ AHD255= After Hours Dim, 7 Hours, 50% ⁹ AHD355= After Hours Dim, 8 Hours, 50% ⁹		BPC= Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7= NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,4,7} SPB1= Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{12,22} SPB2= Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ^{12,22} SPB4= Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ^{12,22} MS/DIM-LXX= Motion Sensor for Dimming Operation ^{7,18,19,12} LWR-LW= Enlightened Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{6,12,13} LWR-LN= Enlightened Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{6,12,13} WLS2XX= WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ^{7,18,20} WLS4XX= WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{7,18,20} WPS2XX= WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{7,18,20} WPS4XX= WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{7,18,20}		MA1253= 10kV Circuit Module Replacement MA1254-XX= Thruway Back Box - Impact Elite Trapezoid MA1255-XX= Thruway Back Box - Impact Elite Cylinder MA1256-XX= Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX= Thruway Back Box - Impact Elite Wedge FSIR-100= Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A= WaveLinx Outdoor Control Module (7-pin) ^{7,19}		
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Not available with ULG option. 3. Choose Drive Current "B" for Amber 590nm, which is provided at 500mA only 4. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. 5. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 6. 480V not to be used with ungrounded or impedance grounded systems. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1000mA or less. 9. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information. 10. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocell. 13. Enlightened wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes. 15. Must specify 120V or 277V. 16. Not for use with 5WQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 17. Removes additional surge module. 18. Replace XX with sensor color (WH, BZ, or BK). 19. Requires PR7. 20. For WaveLinx applications, WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Gateway not required for WaveLinx Life Commercial (LC) applications. 21. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 22. Smart device with mobile application required to change system defaults. See controls section for details. 23. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 25. Only available in 3000K, 4000K or 5000K CCT. 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx. 27. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.						

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

- Two black oxide coated Allen set screws concealed but accessible from below

Finish

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

McGraw-Edison

Impact Elite LED

Energy and Performance Data

 View Impact Elite IES files

1 Light Square (SA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K, 70 CRI)													
T2	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
T3	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
T4FT	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
T4W	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
SL2	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
SL3	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
SL4	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
SLL	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
RW	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

McGraw-Edison

Impact Elite LED

1 Light Panel (PA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36.4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
Current (A)	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K, 70 CRI)													
T2R	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
T2U	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
T3	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
T4W	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
5WQ	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



McGraw-Edison

Impact Elite LED

Control Options

0-10V

This fixture is offered standard with 0-10V dimming driver(s).

Photocontrol (BPC and PR7)

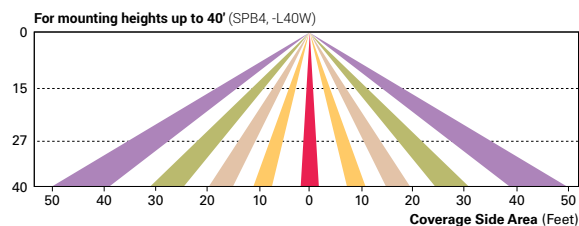
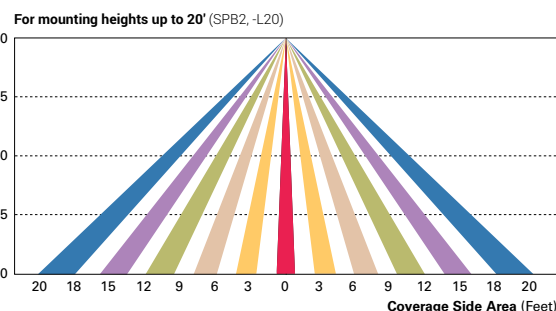
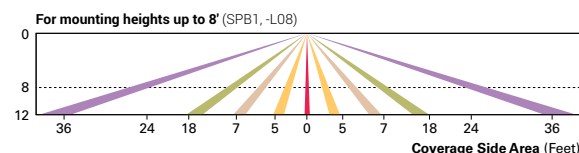
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

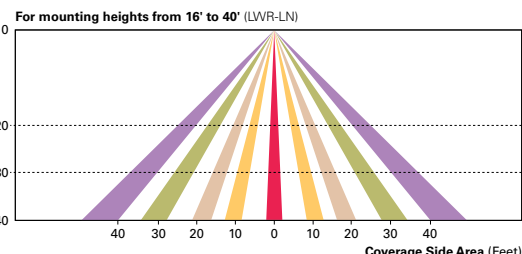
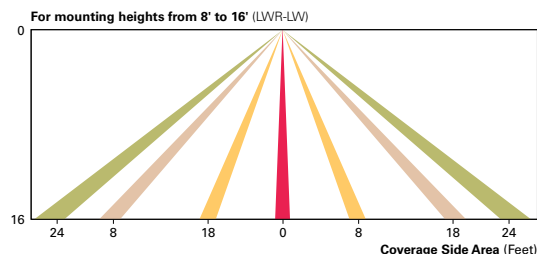
Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

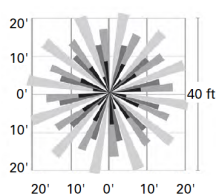
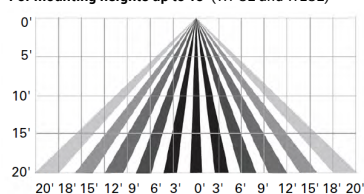
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



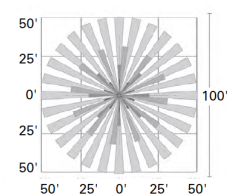
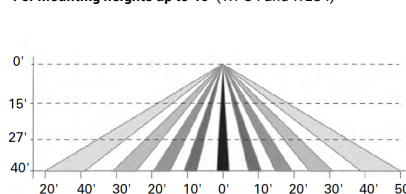
WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2)



For mounting heights up to 40' (WPS4 and WLS4)



Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Energy and Performance Data [page 3](#)
- Control Options [page 4](#)

Product Certifications



Quick Facts

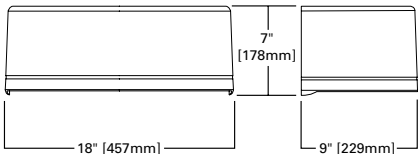
- 15 Optical Distributions
- Lumen packages range from 2,459 to 11,480 (20W - 95W)
- Efficacy up to 149 lumens per watt

Connected Systems

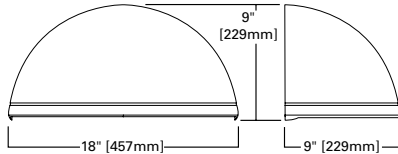
- WaveLinx
- Enlighted

Dimensional Details

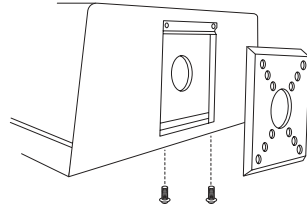
Cylinder



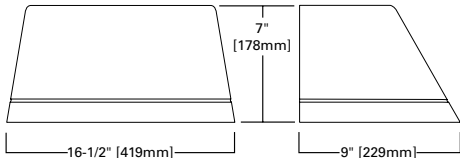
Quarter Sphere



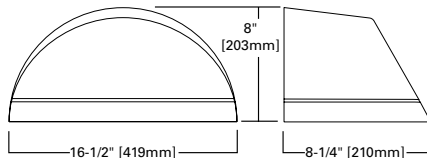
Hook -n- Lock



Trapezoid



Wedge



NOTES:
1. IDA Certified for 3000K CCT and warmer only.

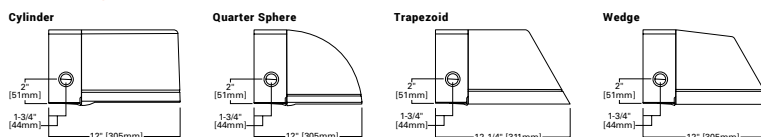
McGraw-Edison

Impact Elite LED

Ordering Information
SAMPLE NUMBER: ISC-SAIF-740-U-T3-BZ

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge BAA-ISC=Impact Elite LED Small Cylinder Buy American Act Compliant ²³ TAA-ISC=Impact Elite LED Small Cylinder Trade Agreements Act Compliant ²³ BAA-ISS=Impact Elite LED Small Quarter Sphere Buy American Act Compliant ²³ TAA-ISS=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-IST=Impact Elite LED Small Trapezoid Buy American Act Compliant ²³ TAA-IST=Impact Elite LED Small Trapezoid Trade Agreements Act Compliant ²³ BAA-ISW=Impact Elite LED Small Wedge Buy American Act Compliant ²³ TAA-ISW=Impact Elite LED Small Wedge Trade Agreements Act Compliant ²³	SA1=1 Square (16 LED) PA1=1 Panel (24 LED) ²⁶	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA ²	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3, 4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V	SA1 Optics T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I PA1 Optics 5WQ=Type V Square Wide T2R=Type II T2U=Type II Urban T3=Type III T4W=Type IV Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White RALXX=Custom Color ²⁷
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)			Accessories (Order Separately) ²⁴	
X=Driver Surge Protection (6kV) Only ¹⁷ 20K=Series 20kV UL 1449 Surge Protective Device CBP=Battery Pack with Back Box, Cold Weather Rated ^{14, 15} CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ¹⁴ HSS=Factory Installed House Side Shield ¹⁶ ULG=Uplight Glow ^{6, 7, 25} LCF=Light Square Trim Plate Painted to Match Housing TR=Tamper Resistant Hardware CC=Coastal Construction ²¹ HA=50°C High Ambient ⁸ AHD145=After Hours Dim, 5 Hours, 50% ⁹ AHD245=After Hours Dim, 6 Hours, 50% ⁹ AHD255=After Hours Dim, 7 Hours, 50% ⁹ AHD355=After Hours Dim, 8 Hours, 50% ⁹		BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2, 4, 7} SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{12, 22} SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ^{12, 22} SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ^{12, 22} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{7, 16, 17, 19} LWR-LW=Enlightened Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{6, 12, 13} LWR-LN=Enlightened Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{6, 12, 13} WLS2XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ^{7, 16, 20} WLS4XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{7, 16, 20} WPS2XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{7, 16, 20} WPS4XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{7, 16, 20}			MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ^{7, 19}	
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Not available with ULG option. 3. Choose Drive Current "B" for Amber 590nm, which is provided at 500mA only 4. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. 5. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 6. 480V not to be used with ungrounded or impedance grounded systems. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1000mA or less. 9. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information. 10. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocell. 13. Enlightened wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes. 15. Must specify 120V or 277V. 16. Not for use with 5WQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 17. Removes additional surge module. 18. Replace XX with sensor color (WH, BZ, or BK). 19. Requires PR7. 20. For WaveLinx applications, WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Gateway not required for WaveLinx Life Commercial (LC) applications. 21. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 22. Smart device with mobile application required to change system defaults. See controls section for details. 23. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 25. Only available in 3000K, 4000K or 5000K CCT. 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx. 27. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.						

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration

Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

- Two black oxide coated Allen set screws concealed but accessible from below

Finish

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

McGraw-Edison

Impact Elite LED

Energy and Performance Data

 View Impact Elite IES files

1 Light Square (SA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K, 70 CRI)													
T2	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
T3	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
T4FT	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
T4W	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
SL2	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
SL3	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
SL4	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
SLL	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
RW	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

McGraw-Edison

Impact Elite LED

1 Light Panel (PA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36.4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
Current (A)	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K, 70 CRI)													
T2R	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
T2U	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
T3	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
T4W	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
5WQ	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



McGraw-Edison

Impact Elite LED

Control Options

0-10V

This fixture is offered standard with 0-10V dimming driver(s).

Photocontrol (BPC and PR7)

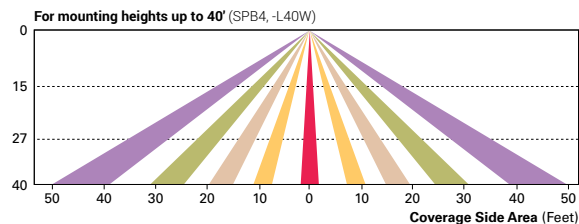
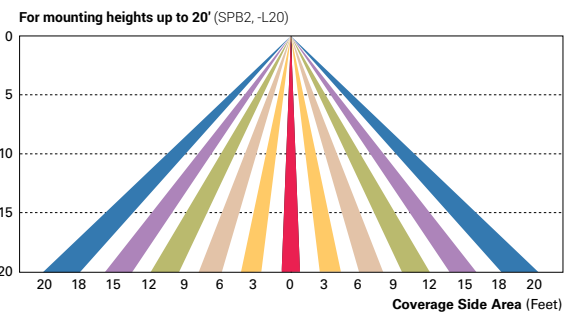
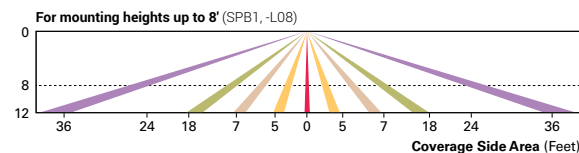
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

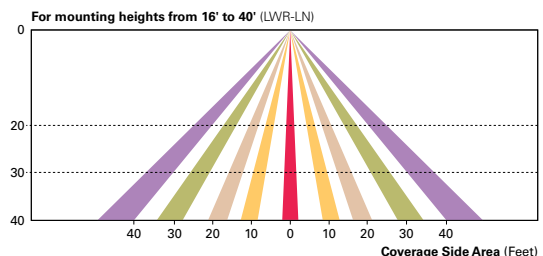
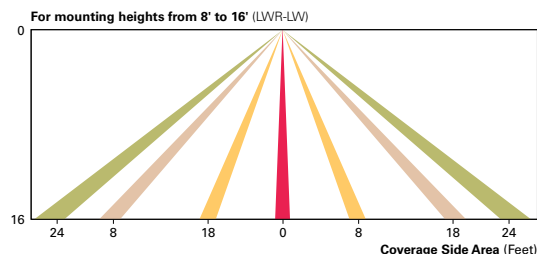
Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

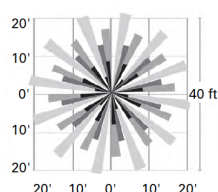
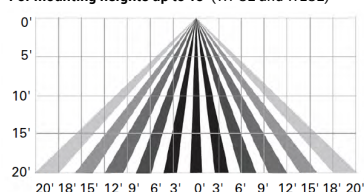
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



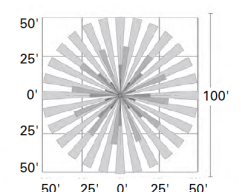
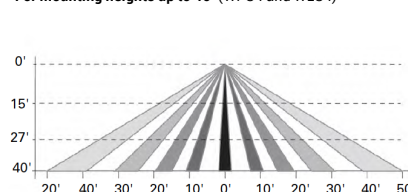
WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2)



For mounting heights up to 40' (WPS4 and WLS4)



Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison Impact Elite LED

Wall Mount Luminaire

- Interactive Menu**
- Ordering Information page 2
 - Product Specifications page 2
 - Energy and Performance Data page 3
 - Control Options page 4

Product Certifications

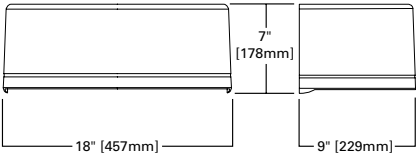


- Quick Facts**
- 15 Optical Distributions
 - Lumen packages range from 2,459 to 11,480 (20W - 95W)
 - Efficacy up to 149 lumens per watt

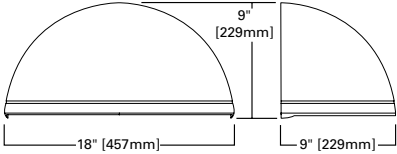
- Connected Systems**
- WaveLinx
 - Enlighted

Dimensional Details

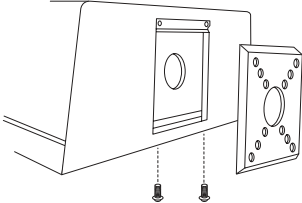
Cylinder



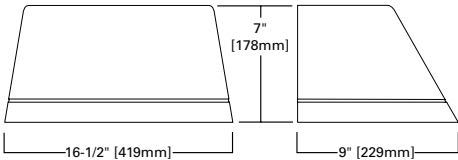
Quarter Sphere



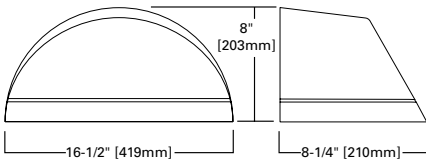
Hook -n- Lock



Trapezoid



Wedge



NOTES:
1. IDA Certified for 3000K CCT and warmer only.

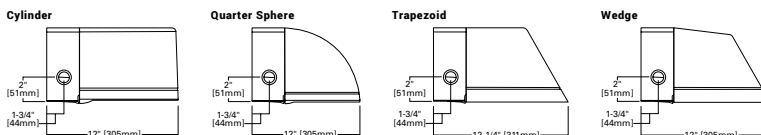
McGraw-Edison

Impact Elite LED

Ordering Information
SAMPLE NUMBER: ISC-SAIF-740-U-T3-BZ

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge BAA-ISC=Impact Elite LED Small Cylinder Buy American Act Compliant ²³ TAA-ISC=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-ISS=Impact Elite LED Small Quarter Sphere Buy American Act Compliant ²³ TAA-ISS=Impact Elite LED Small Quarter Sphere Trade Agreements Act Compliant ²³ BAA-IST=Impact Elite LED Small Trapezoid Buy American Act Compliant ²³ TAA-IST=Impact Elite LED Small Trapezoid Trade Agreements Act Compliant ²³ BAA-ISW=Impact Elite LED Small Wedge Buy American Act Compliant ²³ TAA-ISW=Impact Elite LED Small Wedge Trade Agreements Act Compliant ²³	SA1=1 Square (16 LED) PA1=1 Panel (24 LED) ²⁴	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA ²	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3,4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V	SA1 Optics T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I PA1 Optics SWQ=Type V Square Wide T2R=Type II T3=Type III T4U=Type II Urban T4W=Type IV Wide	AP=Grey BZ=Bronze BK=Black DP=Dark PL=Platinum GM=Graphite Metallic WH=White RALXX=Custom Color ²⁷
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)			Accessories (Order Separately) ²⁴	
X=Driver Surge Protection (6kV) Only ¹⁷ 20K=Series 20kV UL 1449 Surge Protective Device CBP= Battery Pack with Back Box, Cold Weather Rated ^{14,15} CBP-CEC= Battery Pack with Back Box, Cold Weather Rated, CEC compliant ¹⁴ HSS= Factory Installed House Side Shield ¹⁶ ULG= Uplight Glow ^{6,7,25} LCF= Light Square Trim Plate Painted to Match Housing TR= Tamper Resistant Hardware CC= Coastal Construction ²¹ HA= 50°C High Ambient ⁸ AHD145= After Hours Dim, 5 Hours, 50% ⁹ AHD245= After Hours Dim, 6 Hours, 50% ⁹ AHD255= After Hours Dim, 7 Hours, 50% ⁹ AHD355= After Hours Dim, 8 Hours, 50% ⁹		BPC= Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7= NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,4,7} SPB1= Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{12,22} SPB2= Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ^{12,22} SPB4= Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ^{12,22} MS/DIM-LXX= Motion Sensor for Dimming Operation ^{7,18,19,12} LWR-LW= Enlightened Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{6,12,13} LWR-LN= Enlightened Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{6,12,13} WLS2XX= WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ^{7,18,20} WLS4XX= WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{7,18,20} WPS2XX= WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{7,18,20} WPS4XX= WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{7,18,20}			MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ^{7,19}	
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Not available with ULG option. 3. Choose Drive Current "B" for Amber 590nm, which is provided at 500mA only 4. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. 5. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 6. 480V not to be used with ungrounded or impedance grounded systems. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1000mA or less. 9. Requires the use of photocontrol. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information. 10. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocell. 13. Enlightened wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes. 15. Must specify 120V or 277V. 16. Not for use with 5WQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 17. Removes additional surge module. 18. Replace XX with sensor color (WH, BZ, or BK). 19. Requires PR7. 20. For WaveLinx applications, WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Gateway not required for WaveLinx Life Commercial (LC) applications. 21. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 22. Smart device with mobile application required to change system defaults. See controls section for details. 23. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to www.cooperlighting.com/legal website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 24. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 25. Only available in 3000K, 4000K or 5000K CCT. 26. Not available with motion sensor controls, including SPB, MS/DIM, LWR or WaveLinx. 27. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.						

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics

- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment

- Two black oxide coated Allen set screws concealed but accessible from below

Finish

- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

McGraw-Edison

Impact Elite LED

Energy and Performance Data

 View Impact Elite IES files

1 Light Square (SA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K, 70 CRI)													
T2	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
T3	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
T4FT	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
T4W	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
SL2	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
SL3	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
SL4	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
SLL	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
RW	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

McGraw-Edison

Impact Elite LED

1 Light Panel (PA)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120 - 277V	28.9	36.4	48.9	63.0	82.4	94.4	28.9	36.4	48.9	63.0	82.4	94.4
Current (A)	120V	0.24	0.31	0.41	0.53	0.69	0.79	0.24	0.31	0.41	0.53	0.69	0.79
	277V	0.11	0.14	0.18	0.23	0.30	0.34	0.11	0.14	0.18	0.23	0.30	0.34
Power (Watts)	347V or 480V	30.5	37.7	49.0	63.9	83.2	95.0	30.5	37.7	49.0	63.9	83.2	95.0
Current (A)	347V OR 480V	0.09	0.11	0.14	0.19	0.24	0.28	0.09	0.11	0.14	0.19	0.24	0.28
	480V	0.07	0.08	0.11	0.14	0.18	0.20	0.07	0.08	0.11	0.14	0.18	0.20
Optics (4000K, 70 CRI)													
T2R	Lumens	4,296	5,369	7,010	8,733	10,721	11,750	4,154	5,211	6,738	8,386	10,329	11,338
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	149	147	143	139	130	124	144	143	138	133	125	120
T2U	Lumens	4,241	5,300	6,920	8,621	10,584	11,600	4,123	5,172	6,688	8,323	10,252	11,253
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens Per Watt	147	146	142	137	128	123	143	142	137	132	124	119
T3	Lumens	4,193	5,240	6,842	8,524	10,464	11,468	4,079	5,117	6,616	8,235	10,143	11,133
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	145	144	140	135	127	121	141	141	135	131	123	118
T4W	Lumens	4,165	5,205	6,796	8,467	10,394	11,392	4,083	5,122	6,623	8,243	10,152	11,144
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens Per Watt	144	143	139	134	126	121	141	141	135	131	123	118
5WQ	Lumens	4,255	5,318	6,943	8,650	10,619	11,638	4,206	5,276	6,822	8,491	10,458	11,480
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3
	Lumens per Watt	147	146	142	137	129	123	146	145	140	135	127	122

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



McGraw-Edison

Impact Elite LED

Control Options

0-10V

This fixture is offered standard with 0-10V dimming driver(s).

Photocontrol (BPC and PR7)

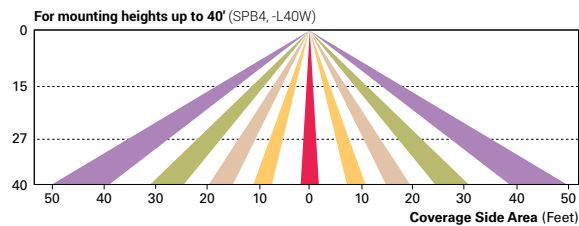
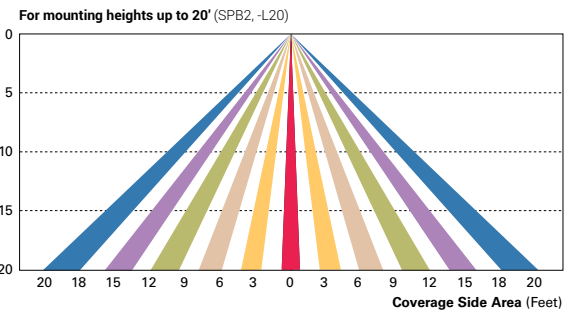
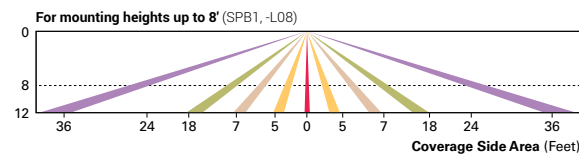
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

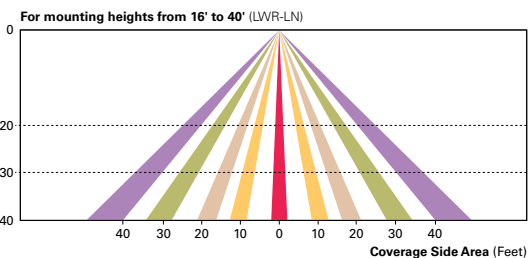
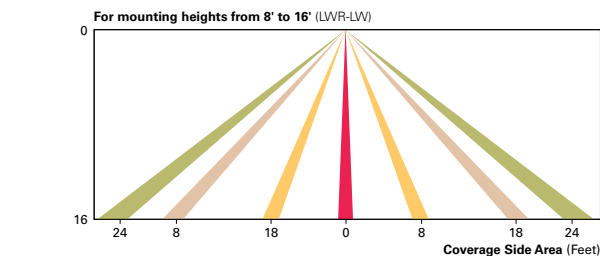
Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

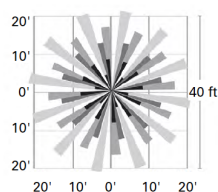
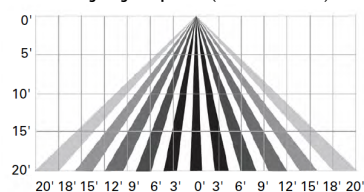
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



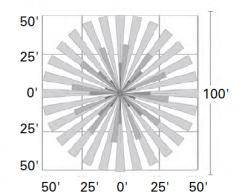
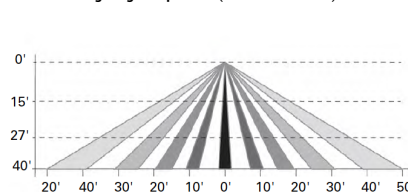
WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2)



For mounting heights up to 40' (WPS4 and WLS4)



Project		Catalog #		Type	
Prepared by		Notes		Date	



Invue

MSA MESA

Decorative Area Luminaire

Product Features



Interactive Menu

- Order Information [page 2](#)
- Optical Distributions [page 3](#)
- Product Specifications [page 4](#)
- Energy & Performance data [page 5](#)
- Control Options [page 13](#)

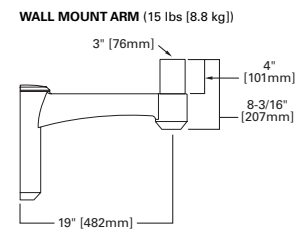
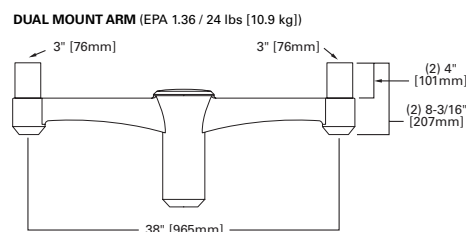
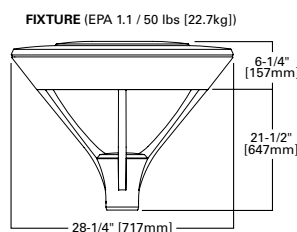
Product Certifications



Quick Facts

- Die-cast aluminum housing and door
- Lumens packages ranging from 3,000 - 29,000 lumens
- Choice of 13 high-efficiency, patented AccuLED Optics™
- Base casting slip fits over a standard 3" O.D. tenon
- Wall, single and dual-mount configurations available
- 10kV/10vKA surge protection standard
- LED fixture features a five-year warranty

Dimensional and Mounting Details



Submitted by Quantum Lighting	Job Name: SCHOOL HOUSE ACADEMY Engineer: BREINHOLT POWER ENGINEERING (Lehi)	Catalog Number: MSA-SA1D-730-U-T4FT-SCBA RSP12-4.0-11-SCBA-BC (INVU, KW) Notes:	Type: S1 NQLG24-121650
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Invue

MSA Mesa

Ordering Information

SAMPLE NUMBER: **MSA-SA4A-740-U-T3-GM**

Product Family ^{1,2}	Light Engine		Color Temperature	Voltage	Distribution	Finish ⁵		
MSA-Mesa BAA-MSA-Mesa Buy American Act ²⁶ TAA-MSA-Mesa Trade Agreement Act Compliant ²⁶	Configuration	Drive Current	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K 835=80CRI, 3500K 840=80CRI, 4000K AMB=590nm, Amber ^{24,25}	U=Universal (120-277V) 9=347V 8=480V ³	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90 Spill Light Eliminator Left SLR=90 Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BK=Black BZ=Bronze DP=Dark Platinum GM=Graphite Metallic WH=White CC=Coastal Construction		
	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares	A=615mA B=800mA C=1050mA(1A) D=1200mA(1.2A)						
Options (Add as Suffix)					Accessories (Order Separately) ¹⁷			
10MSP=10kV MOV Surge Protection Device 20K=20kV UL 1449 Fused Surge Protection Device 20MSP=20kV MOV Surge Protection Device 3=Three Position Terminal Block 2L=UL Listed / CSA Certified ^{6,7} DIM=External 0-10V Dimming Leads EBP=Emergency Battery Pack ^{8,23} CBP=Cold Weather Emergency Battery Pack ^{8,23} CC=Coastal Construction ⁹ UL=UL Listed / CSA Certified HSS=House Side Shield ¹⁰ G3=3G Vibration Rated HA=50°C High Ambient Temperature IH=Internal Dome Hinge ⁷ LCF=Light Square Trim Plate Painted to Match Housing DALI=DALI Driver ¹¹ BPC=Button Type Photocontrol			PR=NEMA 3-PIN Twistlock Photocontrol Receptacle PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle LLPC=Long Life Twistlock NEMA Photocontrol ¹² MS/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height ^{11,13} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{11,13} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{11,13} LWR-LW=Enlightened Sensor, 8'-16' MH ^{11,13,14} LWR-LN=Enlightened Sensor, 16'-40' MH ^{11,13,14} ZD=DALI-enabled 4-PIN Twistlock Receptacle ^{11,13} ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle ^{11,13} SWPD4XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{15,16,17,18} SWPD5XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{15,16,17,18}			SA6028-XX=Dual Mount Arm ² SA6029-XX=Wall Mount Arm ² OA/RA1013=Photocontrol Shorting Cap OA/RA1016=NEMA Photocontrol - Multi-Tap OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA1223=10kV Circuit Module Replacement FSIR-100=Wireless Configuration Tool for Motion Sensor ²⁰ LS/HSS=House Side Shield ^{10,21} SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{15,16,17,18} SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{15,16,17,18} WOLC-7P-10A=WaveLinX Outdoor Control Module ²²		
NOTES: 1. DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 4. Not available with sensor options at 1.2A drive current. Not available in combination with HA high ambient and sensor options at 1A drive current. 5. Custom and RAL color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information. 6. Not available with LWR or SWPD sensor options. Not available with SA1 light square configuration. 2L is with MS/DIM sensors only available with UNV voltage. 7. Not available with EBP or CBP battery pack options. 8. Not available with high ambient (HA), high voltage (8 or 9), or 1.2A drive current configurations. Universal voltage (UNV) and drive currents 1A and lower only. Rated to maximum 25C ambient operating temperatures. 9. Salt spray tested to 5,000hrs per ASTM B117. Scribe rating of 9 per ASTM D1654. 10. House side shield not for use with 5NQ, 5MQ, 5WQ, or RW distributions. The Light Square trim plate is painted black when the HSS option is selected. 11. Utilizes internal step-down transformer when 347V or 480V is selected. 12. Requires PR or PR7 photocontrol receptacle option. 13. Controls system is not available with photocontrol (BPC), photocontrol receptacle (PR or PR7), or other controls systems (MS, ZD, ZW, LWR, DALI, or DIM). 14. Enlightened wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See website for Enlightened application information. 15. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 16. Replace XX with sensor color (WH, BZ or BK). 17. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 18. For this device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 19. Replace XX with paint color. 20. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 21. Must order one per light square when ordering as a field-installable accessory. 22. Requires 7-PIN NEMA twistlock receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other control systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages. 23. Available only with 120-277V. 24. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 25. Not available with HA option. 26. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information.								

Product Specifications

Construction

- Die-cast aluminum main housing and permanent mold spider mount base maintain a minimum Ø.125" wall thickness.
- Integral aluminum heat sink provides superior thermal +40°C ambient with optional 50°C environments.
- Standard 1.5G vibration, 3G optional.
- Top mounted door assembly, heavy wall, diecast aluminum door maintains a nominal Ø.125 thickness
- Door includes a 4.5" stainless steel safety tether standard or an optional self-retaining interior hinge.
- Continuous silicone gasket provided to seal housing door assembly and optic tray
- Downlight lens is LED board integrated UV treated polycarbonate over optics, each individually sealed for IP66 rating.
- Four inset fasteners on underside of housing provide access to luminaire interior.
- Housing and optics IK10 impact rated.

Optics

- Choice of thirteen patented, high efficiency

AccuLED Optic™ technology manufactured from injection-molded UV treated polycarbonate. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing.

- AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements
- Offered in multiple CCTs (+/-275K). For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed.

Electrical

- LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life.
- Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 50°C ambient environments.
- All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection.
- Lightsquares feature an IP66 enclosure rating.
- Occupancy sensor and dimming options available.

Mounting

- Fitter assembly mounts over 3" O.D. Tenon via four concealed, steel set screws and jam-setscrews.

Finish

- Housing is finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear.
- Lightsquares cover plates are standard white and may be specified to match finish of luminaire housing.
- Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.
- Available in Coastal Construction, salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal



Job Name:
SCHOOL HOUSE ACADEMY
Engineer: BREINHOLT POWER
ENGINEERING (Lehi)

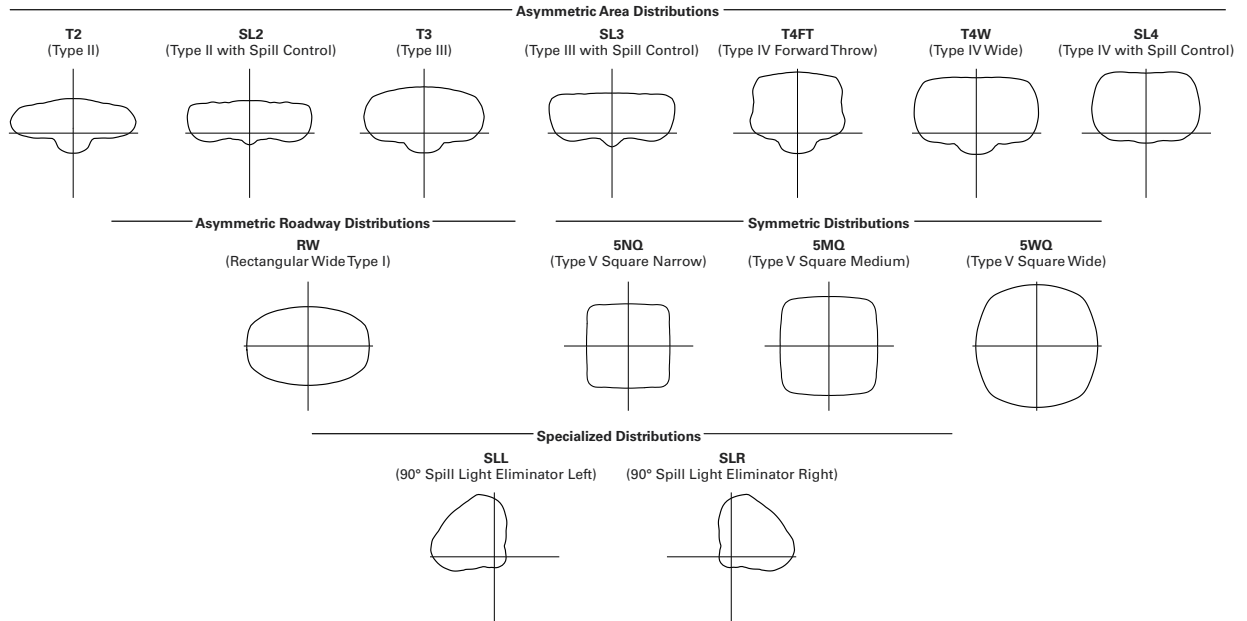
Catalog Number:

MSA-SA1D-730-U-T4FT-SCBA
RSP12-4.0-11-SCBA-BC (INVU, KW)

Notes:

Type:**S1**

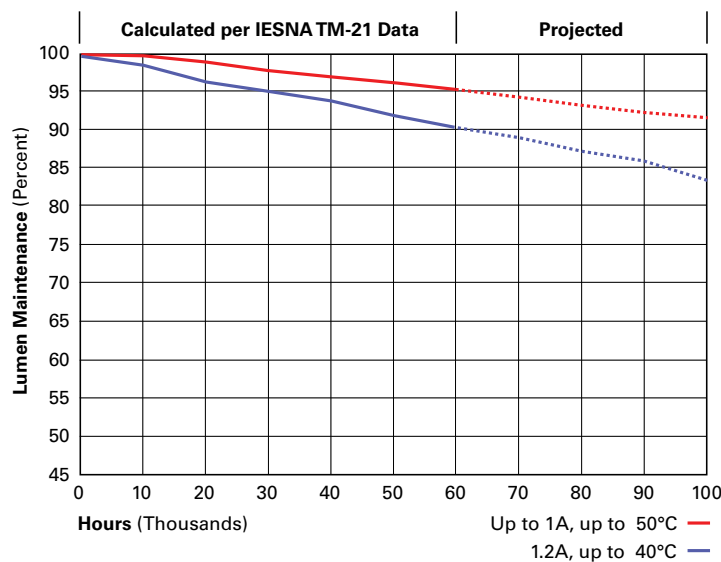
NQLG24-121650

Invue**MSA Mesa****Optical Distributions****Lumen Maintenance**

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Project L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

[View PMM Mesa IES files](#)


Invue
MSA Mesa

Energy and Performance Data

Power and Lumens (1.2A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		67	129	191	258
Input Current @ 120V (A)		0.58	1.16	1.78	2.31
Input Current @ 208V (A)		0.33	0.63	0.93	1.27
Input Current @ 240V (A)		0.29	0.55	0.80	1.10
Input Current @ 277V (A)		0.25	0.48	0.70	0.96
Input Current @ 347V (A)		0.20	0.39	0.57	0.78
Input Current @ 480V (A)		0.15	0.30	0.43	0.60
Optics					
T2	4000K/5000K Lumens	6,840	13,452	19,853	26,239
	4000K/5000K Lumens Per Watt	102	104	104	102
	3000K Lumens	6,229	12,251	18,080	23,896
	3000K Lumens Per Watt	93	95	95	93
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T3	4000K/5000K Lumens	6,848	13,468	19,876	26,270
	4000K/5000K Lumens Per Watt	102	104	104	102
	3000K Lumens	6,236	12,266	18,101	23,924
	3000K Lumens Per Watt	93	95	95	93
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T4FT	4000K/5000K Lumens	6,873	13,519	19,951	26,369
	4000K/5000K Lumens Per Watt	103	105	104	102
	3000K Lumens	6,260	12,312	18,170	24,014
	3000K Lumens Per Watt	93	95	95	93
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4
T4W	4000K/5000K Lumens	6,953	13,675	20,182	26,674
	4000K/5000K Lumens Per Watt	104	106	106	103
	3000K Lumens	6,332	12,454	18,380	24,292
	3000K Lumens Per Watt	95	97	96	94
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
SL2	4000K/5000K Lumens	6,812	13,399	19,773	26,134
	4000K/5000K Lumens Per Watt	102	104	104	101
	3000K Lumens	6,204	12,202	18,008	23,801
	3000K Lumens Per Watt	93	95	94	92
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4
SL3	4000K/5000K Lumens	6,729	13,234	19,531	25,813
	4000K/5000K Lumens Per Watt	100	103	102	100
	3000K Lumens	6,128	12,053	17,787	23,509
	3000K Lumens Per Watt	91	93	93	91
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4

1.2A continued on next page

Invue	MSA Mesa
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Power and Lumens (1.2A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		67	129	191	258
Input Current @ 120V (A)		0.58	1.16	1.78	2.31
Input Current @ 208V (A)		0.33	0.63	0.93	1.27
Input Current @ 240V (A)		0.29	0.55	0.80	1.10
Input Current @ 277V (A)		0.25	0.48	0.70	0.96
Input Current @ 347V (A)		0.20	0.39	0.57	0.78
Input Current @ 480V (A)		0.15	0.30	0.43	0.60
Optics					
SL4	4000K/5000K Lumens	6,680	13,138	19,389	25,625
	4000K/5000K Lumens Per Watt	100	102	102	99
	3000K Lumens	6,083	11,965	17,657	23,337
	3000K Lumens Per Watt	91	93	92	90
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4
5NQ	4000K/5000K Lumens	7,017	13,801	20,368	26,920
	4000K/5000K Lumens Per Watt	105	107	107	104
	3000K Lumens	6,390	12,569	18,549	24,516
	3000K Lumens Per Watt	95	97	97	95
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	7,386	14,527	21,439	28,336
	4000K/5000K Lumens Per Watt	110	113	112	110
	3000K Lumens	6,727	13,230	19,525	25,806
	3000K Lumens Per Watt	100	103	102	100
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3
5WQ	4000K/5000K Lumens	7,356	14,469	21,352	28,221
	4000K/5000K Lumens Per Watt	110	112	112	109
	3000K Lumens	6,699	13,177	19,446	25,701
	3000K Lumens Per Watt	100	102	102	100
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	5,874	11,554	17,051	22,536
	4000K/5000K Lumens Per Watt	88	90	89	87
	3000K Lumens	5,350	10,522	15,529	20,524
	3000K Lumens Per Watt	80	82	81	80
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4
RW	4000K/5000K Lumens	7,042	13,851	20,441	27,017
	4000K/5000K Lumens Per Watt	105	107	107	105
	3000K Lumens	6,414	12,614	18,616	24,605
	3000K Lumens Per Watt	96	98	97	95
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2

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Power and Lumens (1.2A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		59	113	166	225
Input Current @ 120V (A)		0.51	1.02	1.53	2.03
Input Current @ 208V (A)		0.29	0.56	0.82	1.11
Input Current @ 240V (A)		0.26	0.48	0.71	0.96
Input Current @ 277V (A)		0.23	0.42	0.61	0.83
Input Current @ 347V (A)		0.17	0.32	0.50	0.64
Input Current @ 480V (A)		0.14	0.24	0.37	0.48
Optics					
T2	4000K/5000K Lumens	6,256	12,304	18,158	23,999
	4000K/5000K Lumens Per Watt	106	109	109	107
	3000K Lumens	5,697	11,205	16,537	21,856
	3000K Lumens Per Watt	97	99	100	97
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T3	4000K/5000K Lumens	6,263	12,318	18,179	24,027
	4000K/5000K Lumens Per Watt	106	109	110	107
	3000K Lumens	5704	11219	16556	21882
	3000K Lumens Per Watt	97	99	100	97
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T4FT	4000K/5000K Lumens	6,287	12,365	18,248	24,118
	4000K/5000K Lumens Per Watt	107	109	110	107
	3000K Lumens	5,725	11,261	16,618	21,964
	3000K Lumens Per Watt	97	100	100	98
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4
T4W	4000K/5000K Lumens	6,359	12,508	18,459	24,397
	4000K/5000K Lumens Per Watt	108	111	111	108
	3000K Lumens	5,792	11,391	16,811	22,219
	3000K Lumens Per Watt	98	101	101	99
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
SL2	4000K/5000K Lumens	6,231	12,255	18,085	23,903
	4000K/5000K Lumens Per Watt	106	108	109	106
	3000K Lumens	5,674	11,161	16,471	21,769
	3000K Lumens Per Watt	96	99	99	97
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4
SL3	4000K/5000K Lumens	6,154	12,104	17,863	23,610
	4000K/5000K Lumens Per Watt	104	107	108	105
	3000K Lumens	5,605	11,024	16,268	21,502
	3000K Lumens Per Watt	95	98	98	96
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4

1A continued on next page

Invue
MSA Mesa

Power and Lumens (1A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		59	113	166	225
Input Current @ 120V (A)		0.51	1.02	1.53	2.03
Input Current @ 208V (A)		0.29	0.56	0.82	1.11
Input Current @ 240V (A)		0.26	0.48	0.71	0.96
Input Current @ 277V (A)		0.23	0.42	0.61	0.83
Input Current @ 347V (A)		0.17	0.32	0.50	0.64
Input Current @ 480V (A)		0.14	0.24	0.37	0.48
Optics					
SL4	4000K/5000K Lumens	6,109	12,016	17,733	23,438
	4000K/5000K Lumens Per Watt	104	106	107	104
	3000K Lumens	5,564	10,943	16,150	21,345
	3000K Lumens Per Watt	94	97	97	95
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4
5NQ	4000K/5000K Lumens	6,418	12,623	18,629	24,622
	4000K/5000K Lumens Per Watt	109	112	112	109
	3000K Lumens	5,845	11,496	16,966	22,423
	3000K Lumens Per Watt	99	102	102	100
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	6,756	13,287	19,609	25,917
	4000K/5000K Lumens Per Watt	115	118	118	115
	3000K Lumens	6,152	12,101	17,858	23,603
	3000K Lumens Per Watt	104	107	108	105
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3
5WQ	4000K/5000K Lumens	5,728	13,233	19,530	25,812
	4000K/5000K Lumens Per Watt	97	117	118	115
	3000K Lumens	6,127	12,052	17,786	23,507
	3000K Lumens Per Watt	104	107	107	104
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3
SLL/SLR	4000K/5000K Lumens	5,373	10,568	15,595	20,612
	4000K/5000K Lumens Per Watt	91	94	94	92
	3000K Lumens	4,893	9,624	14,203	18,772
	3000K Lumens Per Watt	83	85	86	83
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4
RW	4000K/5000K Lumens	6,441	12,669	18,696	24,710
	4000K/5000K Lumens Per Watt	109	112	113	110
	3000K Lumens	5,866	11,538	17,027	22,504
	3000K Lumens Per Watt	99	102	103	100
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2

Invue	MSA Mesa
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Power and Lumens (800mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		44	85	124	171
Input Current @ 120V (A)		0.39	0.77	1.13	1.54
Input Current @ 208V (A)		0.22	0.44	0.62	0.88
Input Current @ 240V (A)		0.19	0.38	0.54	0.76
Input Current @ 277V (A)		0.17	0.36	0.47	0.72
Input Current @ 347V (A)		0.15	0.24	0.38	0.49
Input Current @ 480V (A)		0.11	0.18	0.29	0.37
Optics					
T2	4000K/5000K Lumens	5,051	9,935	14,662	19,378
	4000K/5000K Lumens Per Watt	115	117	118	113
	3000K Lumens	4,600	9,048	13,353	17,648
	3000K Lumens Per Watt	105	106	108	103
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3
T3	4000K/5000K Lumens	5,057	9,947	14,679	19,401
	4000K/5000K Lumens Per Watt	115	117	118	113
	3000K Lumens	4,606	9,059	13,368	17,669
	3000K Lumens Per Watt	105	107	108	103
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3
T4FT	4000K/5000K Lumens	5,076	9,984	14,734	19,474
	4000K/5000K Lumens Per Watt	115	117	119	114
	3000K Lumens	4,623	9,093	13,419	17,735
	3000K Lumens Per Watt	105	107	108	104
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4
T4W	4000K/5000K Lumens	5,135	10,100	14,905	19,700
	4000K/5000K Lumens Per Watt	117	119	120	115
	3000K Lumens	4,676	9,198	13,574	17,941
	3000K Lumens Per Watt	106	108	109	105
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4
SL2	4000K/5000K Lumens	5,031	9,895	14,603	19,301
	4000K/5000K Lumens Per Watt	114	116	118	113
	3000K Lumens	4,582	9,012	13,299	17,577
	3000K Lumens Per Watt	104	106	107	103
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3
SL3	4000K/5000K Lumens	4,969	9,774	14,424	19,064
	4000K/5000K Lumens Per Watt	113	115	116	111
	3000K Lumens	4,526	8,901	13,136	17,362
	3000K Lumens Per Watt	103	105	106	102
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL4	4000K/5000K Lumens	4,933	9,703	14,319	18,925
	4000K/5000K Lumens Per Watt	112	114	115	111
	3000K Lumens	4,493	8,836	13,041	17,235
	3000K Lumens Per Watt	102	104	105	101
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4

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MSA Mesa

Power and Lumens (800mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		44	85	124	171
Input Current @ 120V (A)		0.39	0.77	1.13	1.54
Input Current @ 208V (A)		0.22	0.44	0.62	0.88
Input Current @ 240V (A)		0.19	0.38	0.54	0.76
Input Current @ 277V (A)		0.17	0.36	0.47	0.72
Input Current @ 347V (A)		0.15	0.24	0.38	0.49
Input Current @ 480V (A)		0.11	0.18	0.29	0.37
Optics					
5NQ	4000K/5000K Lumens	5,182	10,193	15,042	19,881
	4000K/5000K Lumens Per Watt	118	120	121	116
	3000K Lumens	4,720	9,283	13,699	18,106
	3000K Lumens Per Watt	107	109	110	106
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	5,455	10,729	15,833	20,927
	4000K/5000K Lumens Per Watt	124	126	128	122
	3000K Lumens	4,968	9,771	14,420	19,058
	3000K Lumens Per Watt	113	115	116	111
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	5,433	10,685	15,769	20,842
	4000K/5000K Lumens Per Watt	123	126	127	122
	3000K Lumens	4,948	9,731	14,361	18,981
	3000K Lumens Per Watt	112	114	116	111
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3
SLL/SLR	4000K/5000K Lumens	4,338	8,533	12,593	16,644
	4000K/5000K Lumens Per Watt	99	100	102	97
	3000K Lumens	3,951	7,771	11,468	15,157
	3000K Lumens Per Watt	90	91	92	89
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	5,201	10,229	15,096	19,953
	4000K/5000K Lumens Per Watt	118	120	122	117
	3000K Lumens	4,737	9,316	13,749	18,171
	3000K Lumens Per Watt	108	110	111	106
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2

Invue
MSA Mesa

Power and Lumens (600mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		34	66	96	129
Input Current @ 120V (A)		0.30	0.58	0.86	1.16
Input Current @ 208V (A)		0.17	0.34	0.49	0.65
Input Current @ 240V (A)		0.15	0.30	0.43	0.56
Input Current @ 277V (A)		0.14	0.28	0.41	0.52
Input Current @ 347V (A)		0.11	0.19	0.30	0.39
Input Current @ 480V (A)		0.08	0.15	0.24	0.30
Optics					
T2	4000K/5000K Lumens	4,031	7,928	11,700	14,563
	4000K/5000K Lumens Per Watt	119	120	122	113
	3000K Lumens	3,671	7,220	10,655	14,082
	3000K Lumens Per Watt	108	109	111	109
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	4,035	7,937	11,713	15,481
	4000K/5000K Lumens Per Watt	119	120	122	120
	3000K Lumens	2,675	7,228	10,667	14,099
	3000K Lumens Per Watt	79	110	111	109
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4FT	4000K/5000K Lumens	4,051	7,967	11,757	15,539
	4000K/5000K Lumens Per Watt	119	121	122	120
	3000K Lumens	3,689	7,255	10,708	14,152
	3000K Lumens Per Watt	109	110	112	110
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4W	4000K/5000K Lumens	4,097	8,059	11,894	15,719
	4000K/5000K Lumens Per Watt	121	122	124	122
	3000K Lumens	3,732	7,340	10,832	14,316
	3000K Lumens Per Watt	110	111	113	111
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G3
SL2	4000K/5000K Lumens	4,015	7,896	11,653	15,401
	4000K/5000K Lumens Per Watt	118	120	121	119
	3000K Lumens	3,656	7,191	10,612	14,026
	3000K Lumens Per Watt	108	109	111	109
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL3	4000K/5000K Lumens	3,965	7,799	11,510	15,212
	4000K/5000K Lumens Per Watt	117	118	120	118
	3000K Lumens	3,611	7,103	10,482	13,854
	3000K Lumens Per Watt	106	108	109	107
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL4	4000K/5000K Lumens	3,936	7,742	11,426	15,101
	4000K/5000K Lumens Per Watt	116	117	119	117
	3000K Lumens	3,585	7,051	10,406	13,753
	3000K Lumens Per Watt	105	107	108	107
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3

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Power and Lumens (600mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		34	66	96	129
Input Current @ 120V (A)		0.30	0.58	0.86	1.16
Input Current @ 208V (A)		0.17	0.34	0.49	0.65
Input Current @ 240V (A)		0.15	0.30	0.43	0.56
Input Current @ 277V (A)		0.14	0.28	0.41	0.52
Input Current @ 347V (A)		0.11	0.19	0.30	0.39
Input Current @ 480V (A)		0.08	0.15	0.24	0.30
Optics					
5NQ	4000K/5000K Lumens	4,135	8,133	12,003	15,864
	4000K/5000K Lumens Per Watt	122	123	125	123
	3000K Lumens	3,766	7,407	10,931	14,448
	3000K Lumens Per Watt	111	112	114	112
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
5MQ	4000K/5000K Lumens	4,353	8,561	12,634	16,698
	4000K/5000K Lumens Per Watt	128	130	132	129
	3000K Lumens	3,964	7,797	11,506	15,208
	3000K Lumens Per Watt	117	118	120	118
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	4,335	8,526	12,583	16,631
	4000K/5000K Lumens Per Watt	128	129	131	129
	3000K Lumens	3,948	7,765	11,460	15,146
	3000K Lumens Per Watt	116	118	119	117
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
SLL/SLR	4000K/5000K Lumens	3,462	6,809	10,048	13,281
	4000K/5000K Lumens Per Watt	102	103	105	103
	3000K Lumens	3,153	6,201	9,151	12,095
	3000K Lumens Per Watt	93	94	95	94
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	4,150	8,163	12,046	15,921
	4000K/5000K Lumens Per Watt	122	124	125	123
	3000K Lumens	3,780	7,434	10,971	14,500
	3000K Lumens Per Watt	111	113	114	112
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2

**Invue****MSA Mesa****Control Options****0-10V (DIM)**

The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7)

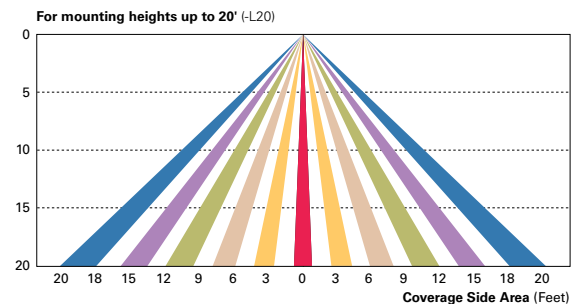
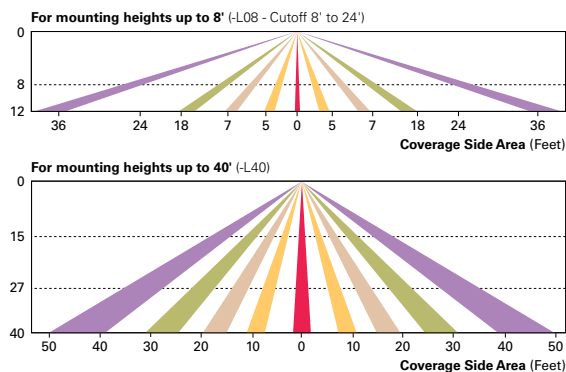
Optional photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

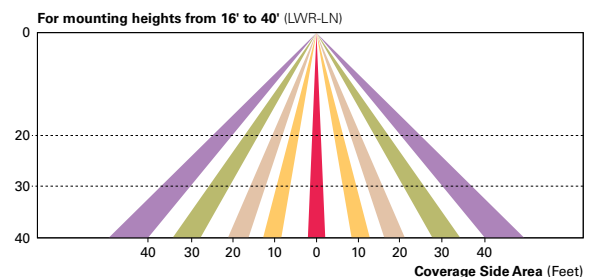
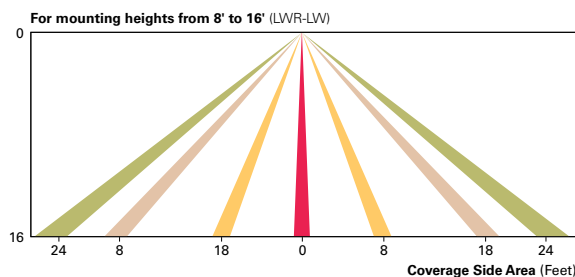
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

**Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

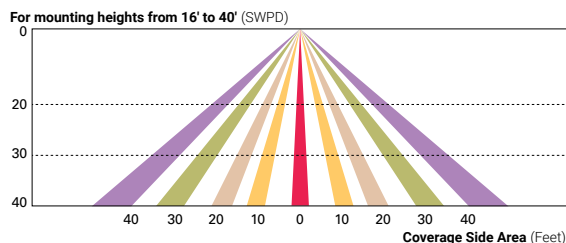
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinX Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinX Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinX Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including wadjustment of any factory pre-sets).

WaveLinX Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinX Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



Project		Catalog #		Type	
Prepared by		Notes		Date	



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MSA MESA

Decorative Area Luminaire

Product Features



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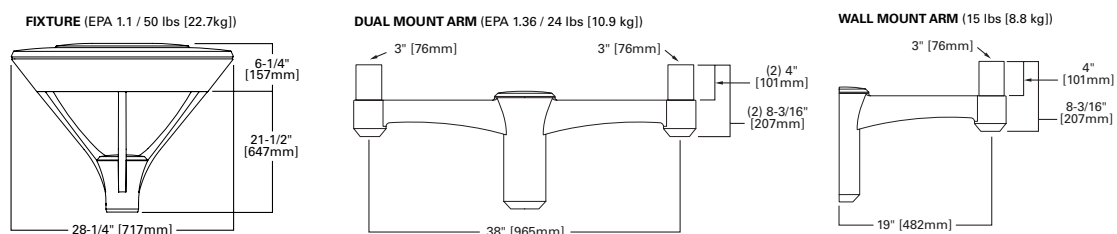
Product Certifications



Quick Facts

- Die-cast aluminum housing and door
- Lumens packages ranging from 3,000 - 29,000 lumens
- Choice of 13 high-efficiency, patented AccuLED Optics™
- Base casting slip fits over a standard 3" O.D. tenon
- Wall, single and dual-mount configurations available
- 10kV/10vKA surge protection standard
- LED fixture features a five-year warranty

Dimensional and Mounting Details



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Ordering Information

SAMPLE NUMBER: MSA-SA4A-740-U-T3-GM

Product Family ^{1,2}	Light Engine		Color Temperature	Voltage	Distribution	Finish ⁵
MSA-Mesa BAA-MSA-Mesa Buy American Act ²⁶ TAA-MSA-Mesa Trade Agreement Act Compliant ²⁶	Configuration SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares	Drive Current A=615mA B=800mA C=1050mA(1A) D=1200mA(1.2A)	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI,6000K 827=80CRI, 2700K 830=80CRI, 3000K 835=80CRI, 3500K 840=80CRI, 4000K AMB=590nm, Amber ^{24,25}	U=Universal (120-277V) 9=347V 8=480V³	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90 Spill Light Eliminator Left SLR=90 Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BK=Black BZ=Bronze DP=Dark Platinum GM=Graphite Metallic WH=White CC=Coastal Construction
Options (Add as Suffix)				Accessories (Order Separately) ¹⁷		
10MSP=10KV MOV Surge Protection Device 20K=20KV UL 1449 Fused Surge Protection Device 20MSP=20KV MOV Surge Protection Device 3=Three Position Terminal Block 2L=UL Listed / CSA Certified ^{6,7} DIM=External 0-10V Dimming Leads EBP=Emergency Battery Pack ^{8,23} CBP=Cold Weather Emergency Battery Pack ^{8,23} CC=Coastal Construction ⁹ UL=UL Listed / CSA Certified HSS=House Side Shield ¹⁰ G3=3G Vibration Rated HA=50°C High Ambient Temperature IH=Internal Dome Hinge ⁷ LCF=Light Square Trim Plate Painted to Match Housing DALI=DALI Driver ¹¹ BPC=Button Type Photocontrol				PR=NEMA 3-PIN Twistlock Photocontrol Receptacle PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle LLPC=Long Life Twistlock NEMA Photocontrol ¹² MS/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height ^{11,13} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{11,13} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{11,13} LWR-LW=Enlighted Sensor, 8'-16' MH ^{11,13,14} LWR-LN=Enlighted Sensor, 16'-40' MH ^{11,13,14} ZD=DALI-enabled 4-PIN Twistlock Receptacle ^{11,13} ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle ^{11,13} SWPD4XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{15,16,17,18} SWPD5XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{15,16,17,18}		
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 4. Not available with sensor options at 1.2A drive current. Not available in combination with HA high ambient and sensor options at 1A drive current. 5. Custom and RAL color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information. 6. Not available with LWR or SWPD sensor options. Not available with SA1 light square configuration. 2L is with MS/DIM sensors only available with UNV voltage. 7. Not available with EBP or CBP battery pack options. 8. Not available with high ambient (HA), high voltage (8 or 9), or 1.2A drive current configurations. Universal voltage (UNV) and drive currents 1A and lower only. Rated to maximum 25C ambient operating temperatures. 9. Salt spray tested to 5,000hrs per ASTM B117. Scribe rating of 9 per ASTM D1654. 10. House side shield not for use with 5NQ, 5MQ, 5WQ, or RW distributions. The Light Square trim plate is painted black when the HSS option is selected. 11. Utilizes internal step-down transformer when 347V or 480V is selected. 12. Requires PR or PR7 photocontrol receptacle option. 13. Controls system is not available with photocontrol (BPC), photocontrol receptacle (PR or PR7), or other controls systems (MS, ZD, ZW, LWR, DALI, or DIM). 14. Enlighted wireless sensors are factory installed and require network components WAC-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See website for Enlighted application information. 15. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 16. Replace XX with sensor color (WH, BZ or BK). 17. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 18. For this device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. 19. Replace XX with paint color. 20. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 21. Must order one per light square when ordering as a field-installable accessory. 22. Requires 7-PIN NEMA twistlock receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other control systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages. 23. Available only with 120-277V. 24. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 25. Not available with HA option. 26. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information.						

Product Specifications

Construction

- Die-cast aluminum main housing and permanent mold spider mount base maintain a minimum Ø.125" wall thickness.
- Integral aluminum heat sink provides superior thermal +40°C ambient with optional 50°C environments.
- Standard 1.5G vibration, 3G optional.
- Top mounted door assembly, heavy wall, diecast aluminum door maintains a nominal Ø.125 thickness
- Door includes a 4.5" stainless steel safety tether standard or an optional self-retaining interior hinge.
- Continuous silicone gasket provided to seal housing door assembly and optic tray
- Downlight lens is LED board integrated UV treated polycarbonate over optics, each individually sealed for IP66 rating.
- Four inset fasteners on underside of housing provide access to luminaire interior.
- Housing and optics IK10 impact rated.

Optics

- Choice of thirteen patented, high efficiency

AccuLED Optic™ technology manufactured from injection-molded UV treated polycarbonate. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing.

- AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements
- Offered in multiple CCTs (+/-275K). For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed.

Electrical

- LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life.
- Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 50°C ambient environments.
- All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection.
- Lightsquares feature an IP66 enclosure rating.
- Occupancy sensor and dimming options available.

Mounting

- Fitter assembly mounts over 3" O.D. Tenon via four concealed, steel set screws and jam-setscrews.

Finish

- Housing is finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear.
- Lightsquares cover plates are standard white and may be specified to match finish of luminaire housing.
- Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.
- Available in Coastal Construction, salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal



Job Name:
SCHOOL HOUSE ACADEMY
Engineer: BREINHOLT POWER
ENGINEERING (Lehi)

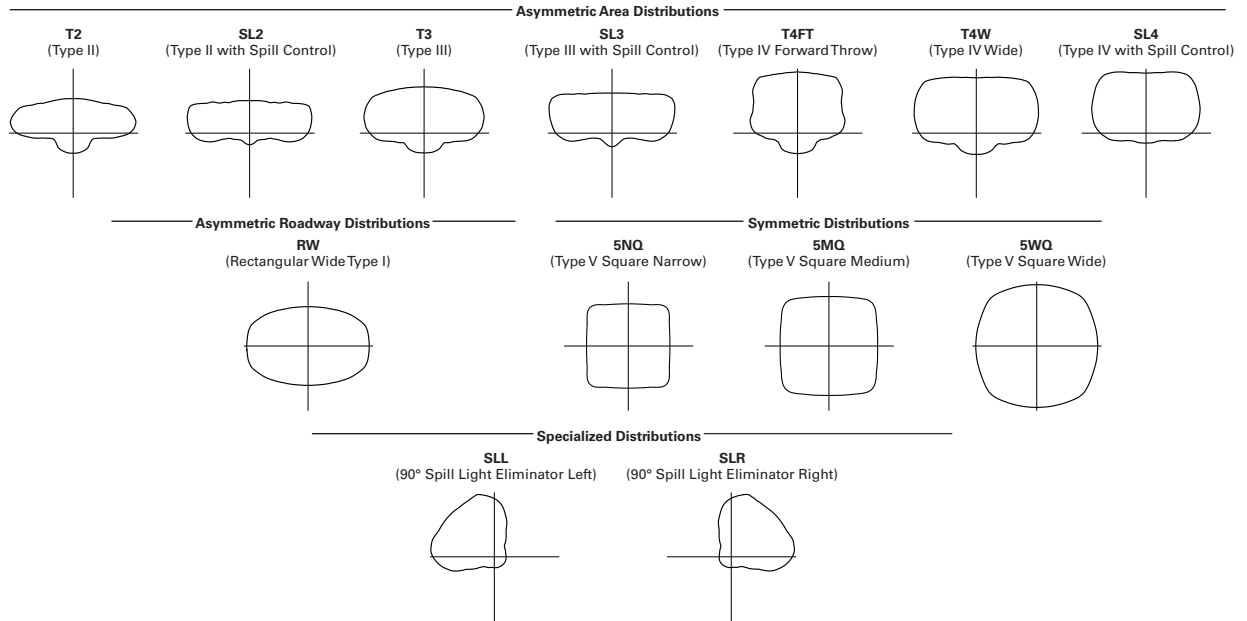
Catalog Number:

MSA-SA2B-730-U-T4FT-SCBA
RSP12-4.0-11-SCBA-BC (INVU, KW)

Notes:

Type:**S2**

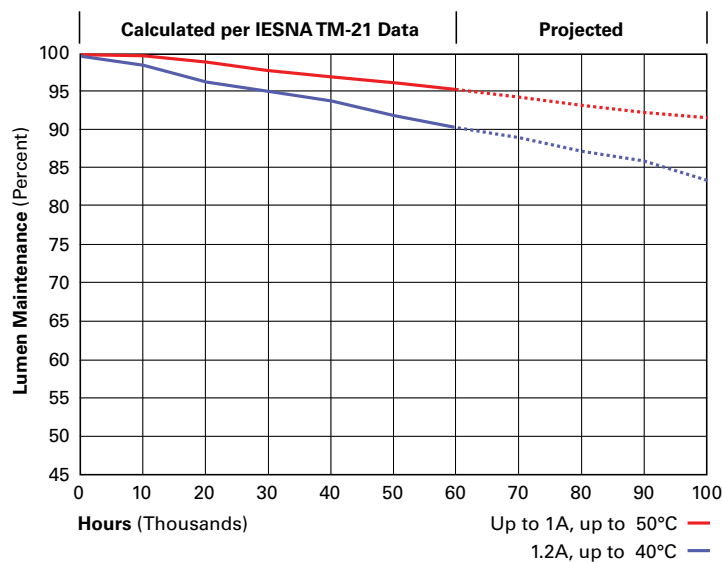
NQLG24-121650

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Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Project L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

[View PMM Mesa IES files](#)


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Energy and Performance Data

Power and Lumens (1.2A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		67	129	191	258
Input Current @ 120V (A)		0.58	1.16	1.78	2.31
Input Current @ 208V (A)		0.33	0.63	0.93	1.27
Input Current @ 240V (A)		0.29	0.55	0.80	1.10
Input Current @ 277V (A)		0.25	0.48	0.70	0.96
Input Current @ 347V (A)		0.20	0.39	0.57	0.78
Input Current @ 480V (A)		0.15	0.30	0.43	0.60
Optics					
T2	4000K/5000K Lumens	6,840	13,452	19,853	26,239
	4000K/5000K Lumens Per Watt	102	104	104	102
	3000K Lumens	6,229	12,251	18,080	23,896
	3000K Lumens Per Watt	93	95	95	93
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T3	4000K/5000K Lumens	6,848	13,468	19,876	26,270
	4000K/5000K Lumens Per Watt	102	104	104	102
	3000K Lumens	6,236	12,266	18,101	23,924
	3000K Lumens Per Watt	93	95	95	93
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T4FT	4000K/5000K Lumens	6,873	13,519	19,951	26,369
	4000K/5000K Lumens Per Watt	103	105	104	102
	3000K Lumens	6,260	12,312	18,170	24,014
	3000K Lumens Per Watt	93	95	95	93
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4
T4W	4000K/5000K Lumens	6,953	13,675	20,182	26,674
	4000K/5000K Lumens Per Watt	104	106	106	103
	3000K Lumens	6,332	12,454	18,380	24,292
	3000K Lumens Per Watt	95	97	96	94
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
SL2	4000K/5000K Lumens	6,812	13,399	19,773	26,134
	4000K/5000K Lumens Per Watt	102	104	104	101
	3000K Lumens	6,204	12,202	18,008	23,801
	3000K Lumens Per Watt	93	95	94	92
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4
SL3	4000K/5000K Lumens	6,729	13,234	19,531	25,813
	4000K/5000K Lumens Per Watt	100	103	102	100
	3000K Lumens	6,128	12,053	17,787	23,509
	3000K Lumens Per Watt	91	93	93	91
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4

1.2A continued on next page

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Power and Lumens (1.2A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		67	129	191	258
Input Current @ 120V (A)		0.58	1.16	1.78	2.31
Input Current @ 208V (A)		0.33	0.63	0.93	1.27
Input Current @ 240V (A)		0.29	0.55	0.80	1.10
Input Current @ 277V (A)		0.25	0.48	0.70	0.96
Input Current @ 347V (A)		0.20	0.39	0.57	0.78
Input Current @ 480V (A)		0.15	0.30	0.43	0.60
Optics					
SL4	4000K/5000K Lumens	6,680	13,138	19,389	25,625
	4000K/5000K Lumens Per Watt	100	102	102	99
	3000K Lumens	6,083	11,965	17,657	23,337
	3000K Lumens Per Watt	91	93	92	90
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4
5NQ	4000K/5000K Lumens	7,017	13,801	20,368	26,920
	4000K/5000K Lumens Per Watt	105	107	107	104
	3000K Lumens	6,390	12,569	18,549	24,516
	3000K Lumens Per Watt	95	97	97	95
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	7,386	14,527	21,439	28,336
	4000K/5000K Lumens Per Watt	110	113	112	110
	3000K Lumens	6,727	13,230	19,525	25,806
	3000K Lumens Per Watt	100	103	102	100
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3
5WQ	4000K/5000K Lumens	7,356	14,469	21,352	28,221
	4000K/5000K Lumens Per Watt	110	112	112	109
	3000K Lumens	6,699	13,177	19,446	25,701
	3000K Lumens Per Watt	100	102	102	100
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	5,874	11,554	17,051	22,536
	4000K/5000K Lumens Per Watt	88	90	89	87
	3000K Lumens	5,350	10,522	15,529	20,524
	3000K Lumens Per Watt	80	82	81	80
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4
RW	4000K/5000K Lumens	7,042	13,851	20,441	27,017
	4000K/5000K Lumens Per Watt	105	107	107	105
	3000K Lumens	6,414	12,614	18,616	24,605
	3000K Lumens Per Watt	96	98	97	95
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2

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Power and Lumens (1.2A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		59	113	166	225
Input Current @ 120V (A)		0.51	1.02	1.53	2.03
Input Current @ 208V (A)		0.29	0.56	0.82	1.11
Input Current @ 240V (A)		0.26	0.48	0.71	0.96
Input Current @ 277V (A)		0.23	0.42	0.61	0.83
Input Current @ 347V (A)		0.17	0.32	0.50	0.64
Input Current @ 480V (A)		0.14	0.24	0.37	0.48
Optics					
T2	4000K/5000K Lumens	6,256	12,304	18,158	23,999
	4000K/5000K Lumens Per Watt	106	109	109	107
	3000K Lumens	5,697	11,205	16,537	21,856
	3000K Lumens Per Watt	97	99	100	97
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T3	4000K/5000K Lumens	6,263	12,318	18,179	24,027
	4000K/5000K Lumens Per Watt	106	109	110	107
	3000K Lumens	5704	11219	16556	21882
	3000K Lumens Per Watt	97	99	100	97
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4
T4FT	4000K/5000K Lumens	6,287	12,365	18,248	24,118
	4000K/5000K Lumens Per Watt	107	109	110	107
	3000K Lumens	5,725	11,261	16,618	21,964
	3000K Lumens Per Watt	97	100	100	98
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4
T4W	4000K/5000K Lumens	6,359	12,508	18,459	24,397
	4000K/5000K Lumens Per Watt	108	111	111	108
	3000K Lumens	5,792	11,391	16,811	22,219
	3000K Lumens Per Watt	98	101	101	99
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
SL2	4000K/5000K Lumens	6,231	12,255	18,085	23,903
	4000K/5000K Lumens Per Watt	106	108	109	106
	3000K Lumens	5,674	11,161	16,471	21,769
	3000K Lumens Per Watt	96	99	99	97
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4
SL3	4000K/5000K Lumens	6,154	12,104	17,863	23,610
	4000K/5000K Lumens Per Watt	104	107	108	105
	3000K Lumens	5,605	11,024	16,268	21,502
	3000K Lumens Per Watt	95	98	98	96
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4

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Power and Lumens (1A)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		59	113	166	225
Input Current @ 120V (A)		0.51	1.02	1.53	2.03
Input Current @ 208V (A)		0.29	0.56	0.82	1.11
Input Current @ 240V (A)		0.26	0.48	0.71	0.96
Input Current @ 277V (A)		0.23	0.42	0.61	0.83
Input Current @ 347V (A)		0.17	0.32	0.50	0.64
Input Current @ 480V (A)		0.14	0.24	0.37	0.48
Optics					
SL4	4000K/5000K Lumens	6,109	12,016	17,733	23,438
	4000K/5000K Lumens Per Watt	104	106	107	104
	3000K Lumens	5,564	10,943	16,150	21,345
	3000K Lumens Per Watt	94	97	97	95
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4
5NQ	4000K/5000K Lumens	6,418	12,623	18,629	24,622
	4000K/5000K Lumens Per Watt	109	112	112	109
	3000K Lumens	5,845	11,496	16,966	22,423
	3000K Lumens Per Watt	99	102	102	100
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	6,756	13,287	19,609	25,917
	4000K/5000K Lumens Per Watt	115	118	118	115
	3000K Lumens	6,152	12,101	17,858	23,603
	3000K Lumens Per Watt	104	107	108	105
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3
5WQ	4000K/5000K Lumens	5,728	13,233	19,530	25,812
	4000K/5000K Lumens Per Watt	97	117	118	115
	3000K Lumens	6,127	12,052	17,786	23,507
	3000K Lumens Per Watt	104	107	107	104
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3
SLL/SLR	4000K/5000K Lumens	5,373	10,568	15,595	20,612
	4000K/5000K Lumens Per Watt	91	94	94	92
	3000K Lumens	4,893	9,624	14,203	18,772
	3000K Lumens Per Watt	83	85	86	83
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4
RW	4000K/5000K Lumens	6,441	12,669	18,696	24,710
	4000K/5000K Lumens Per Watt	109	112	113	110
	3000K Lumens	5,866	11,538	17,027	22,504
	3000K Lumens Per Watt	99	102	103	100
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2

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Power and Lumens (800mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		44	85	124	171
Input Current @ 120V (A)		0.39	0.77	1.13	1.54
Input Current @ 208V (A)		0.22	0.44	0.62	0.88
Input Current @ 240V (A)		0.19	0.38	0.54	0.76
Input Current @ 277V (A)		0.17	0.36	0.47	0.72
Input Current @ 347V (A)		0.15	0.24	0.38	0.49
Input Current @ 480V (A)		0.11	0.18	0.29	0.37
Optics					
T2	4000K/5000K Lumens	5,051	9,935	14,662	19,378
	4000K/5000K Lumens Per Watt	115	117	118	113
	3000K Lumens	4,600	9,048	13,353	17,648
	3000K Lumens Per Watt	105	106	108	103
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3
T3	4000K/5000K Lumens	5,057	9,947	14,679	19,401
	4000K/5000K Lumens Per Watt	115	117	118	113
	3000K Lumens	4,606	9,059	13,368	17,669
	3000K Lumens Per Watt	105	107	108	103
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3
T4FT	4000K/5000K Lumens	5,076	9,984	14,734	19,474
	4000K/5000K Lumens Per Watt	115	117	119	114
	3000K Lumens	4,623	9,093	13,419	17,735
	3000K Lumens Per Watt	105	107	108	104
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4
T4W	4000K/5000K Lumens	5,135	10,100	14,905	19,700
	4000K/5000K Lumens Per Watt	117	119	120	115
	3000K Lumens	4,676	9,198	13,574	17,941
	3000K Lumens Per Watt	106	108	109	105
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4
SL2	4000K/5000K Lumens	5,031	9,895	14,603	19,301
	4000K/5000K Lumens Per Watt	114	116	118	113
	3000K Lumens	4,582	9,012	13,299	17,577
	3000K Lumens Per Watt	104	106	107	103
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3
SL3	4000K/5000K Lumens	4,969	9,774	14,424	19,064
	4000K/5000K Lumens Per Watt	113	115	116	111
	3000K Lumens	4,526	8,901	13,136	17,362
	3000K Lumens Per Watt	103	105	106	102
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL4	4000K/5000K Lumens	4,933	9,703	14,319	18,925
	4000K/5000K Lumens Per Watt	112	114	115	111
	3000K Lumens	4,493	8,836	13,041	17,235
	3000K Lumens Per Watt	102	104	105	101
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4

800mA continued on next page

Invue
MSA Mesa

Power and Lumens (800mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		44	85	124	171
Input Current @ 120V (A)		0.39	0.77	1.13	1.54
Input Current @ 208V (A)		0.22	0.44	0.62	0.88
Input Current @ 240V (A)		0.19	0.38	0.54	0.76
Input Current @ 277V (A)		0.17	0.36	0.47	0.72
Input Current @ 347V (A)		0.15	0.24	0.38	0.49
Input Current @ 480V (A)		0.11	0.18	0.29	0.37
Optics					
5NQ	4000K/5000K Lumens	5,182	10,193	15,042	19,881
	4000K/5000K Lumens Per Watt	118	120	121	116
	3000K Lumens	4,720	9,283	13,699	18,106
	3000K Lumens Per Watt	107	109	110	106
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	5,455	10,729	15,833	20,927
	4000K/5000K Lumens Per Watt	124	126	128	122
	3000K Lumens	4,968	9,771	14,420	19,058
	3000K Lumens Per Watt	113	115	116	111
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	5,433	10,685	15,769	20,842
	4000K/5000K Lumens Per Watt	123	126	127	122
	3000K Lumens	4,948	9,731	14,361	18,981
	3000K Lumens Per Watt	112	114	116	111
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3
SLL/SLR	4000K/5000K Lumens	4,338	8,533	12,593	16,644
	4000K/5000K Lumens Per Watt	99	100	102	97
	3000K Lumens	3,951	7,771	11,468	15,157
	3000K Lumens Per Watt	90	91	92	89
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	5,201	10,229	15,096	19,953
	4000K/5000K Lumens Per Watt	118	120	122	117
	3000K Lumens	4,737	9,316	13,749	18,171
	3000K Lumens Per Watt	108	110	111	106
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2

Invue
MSA Mesa

Power and Lumens (600mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		34	66	96	129
Input Current @ 120V (A)		0.30	0.58	0.86	1.16
Input Current @ 208V (A)		0.17	0.34	0.49	0.65
Input Current @ 240V (A)		0.15	0.30	0.43	0.56
Input Current @ 277V (A)		0.14	0.28	0.41	0.52
Input Current @ 347V (A)		0.11	0.19	0.30	0.39
Input Current @ 480V (A)		0.08	0.15	0.24	0.30
Optics					
T2	4000K/5000K Lumens	4,031	7,928	11,700	14,563
	4000K/5000K Lumens Per Watt	119	120	122	113
	3000K Lumens	3,671	7,220	10,655	14,082
	3000K Lumens Per Watt	108	109	111	109
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	4,035	7,937	11,713	15,481
	4000K/5000K Lumens Per Watt	119	120	122	120
	3000K Lumens	2,675	7,228	10,667	14,099
	3000K Lumens Per Watt	79	110	111	109
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4FT	4000K/5000K Lumens	4,051	7,967	11,757	15,539
	4000K/5000K Lumens Per Watt	119	121	122	120
	3000K Lumens	3,689	7,255	10,708	14,152
	3000K Lumens Per Watt	109	110	112	110
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4W	4000K/5000K Lumens	4,097	8,059	11,894	15,719
	4000K/5000K Lumens Per Watt	121	122	124	122
	3000K Lumens	3,732	7,340	10,832	14,316
	3000K Lumens Per Watt	110	111	113	111
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G3
SL2	4000K/5000K Lumens	4,015	7,896	11,653	15,401
	4000K/5000K Lumens Per Watt	118	120	121	119
	3000K Lumens	3,656	7,191	10,612	14,026
	3000K Lumens Per Watt	108	109	111	109
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL3	4000K/5000K Lumens	3,965	7,799	11,510	15,212
	4000K/5000K Lumens Per Watt	117	118	120	118
	3000K Lumens	3,611	7,103	10,482	13,854
	3000K Lumens Per Watt	106	108	109	107
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3
SL4	4000K/5000K Lumens	3,936	7,742	11,426	15,101
	4000K/5000K Lumens Per Watt	116	117	119	117
	3000K Lumens	3,585	7,051	10,406	13,753
	3000K Lumens Per Watt	105	107	108	107
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3

600mA continued on next page

Invue
MSA Mesa

Power and Lumens (600mA)

Number of Light Squares		1	2	3	4
Nominal Power (Watts)		34	66	96	129
Input Current @ 120V (A)		0.30	0.58	0.86	1.16
Input Current @ 208V (A)		0.17	0.34	0.49	0.65
Input Current @ 240V (A)		0.15	0.30	0.43	0.56
Input Current @ 277V (A)		0.14	0.28	0.41	0.52
Input Current @ 347V (A)		0.11	0.19	0.30	0.39
Input Current @ 480V (A)		0.08	0.15	0.24	0.30
Optics					
5NQ	4000K/5000K Lumens	4,135	8,133	12,003	15,864
	4000K/5000K Lumens Per Watt	122	123	125	123
	3000K Lumens	3,766	7,407	10,931	14,448
	3000K Lumens Per Watt	111	112	114	112
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
5MQ	4000K/5000K Lumens	4,353	8,561	12,634	16,698
	4000K/5000K Lumens Per Watt	128	130	132	129
	3000K Lumens	3,964	7,797	11,506	15,208
	3000K Lumens Per Watt	117	118	120	118
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	4,335	8,526	12,583	16,631
	4000K/5000K Lumens Per Watt	128	129	131	129
	3000K Lumens	3,948	7,765	11,460	15,146
	3000K Lumens Per Watt	116	118	119	117
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
SLL/SLR	4000K/5000K Lumens	3,462	6,809	10,048	13,281
	4000K/5000K Lumens Per Watt	102	103	105	103
	3000K Lumens	3,153	6,201	9,151	12,095
	3000K Lumens Per Watt	93	94	95	94
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	4,150	8,163	12,046	15,921
	4000K/5000K Lumens Per Watt	122	124	125	123
	3000K Lumens	3,780	7,434	10,971	14,500
	3000K Lumens Per Watt	111	113	114	112
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2

**Invue****MSA Mesa****Control Options****0-10V (DIM)**

The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7)

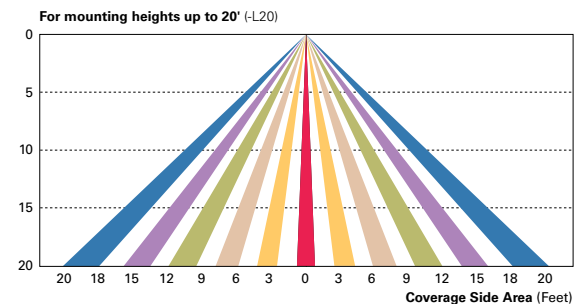
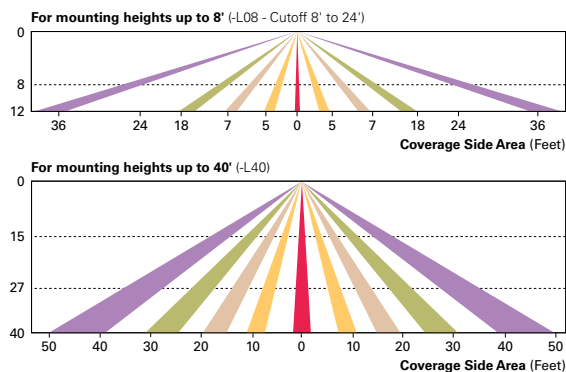
Optional photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

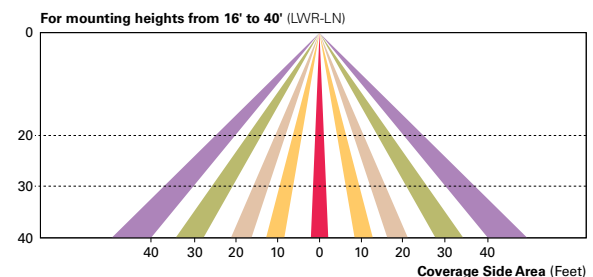
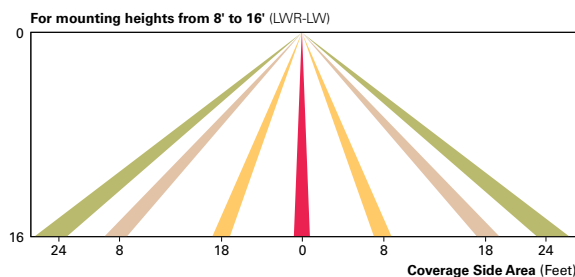
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

**Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

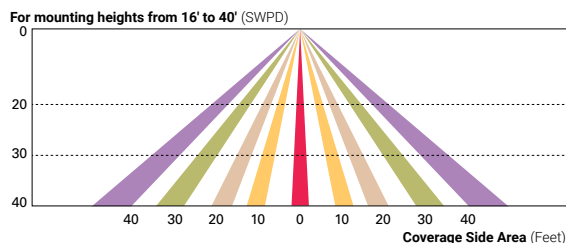
Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinX Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinX Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinX Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including wadjustment of any factory pre-sets).

WaveLinX Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinX Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO:

Heber City
c/o City Recorder
75 North Main Street
Heber City, Utah 84032

Parcel No. 00-0009-0824

DEVELOPMENT AGREEMENT

School House Academy

This Development Agreement (this "Agreement") is entered into this 1st day of May, 2024 (the "Effective Date"), by and between Heber City (the "City") and 700 SHA, LLC (the "Petitioner").

RECITALS

WHEREAS, Petitioner has submitted a petition to enter into a development agreement to address uses, and development standards for the property located at 700 S School House Way, which property is more specifically identified on Exhibit 1 (the "Property"); and

WHEREAS, the City finds that the provisions of this Agreement are consistent with the General Plan; and

WHEREAS, this Agreement identifies specific requirements and restrictions associated with the development of the property.

NOW, THEREFORE, the Parties hereby agree as follows:

1. Permitted Uses

- a. In addition to the permitted uses of the underlying zoning, the following use is permitted.
 - i. Commercial Day Care Center
 - ii. After School Program and Education Center, as currently proposed.

2. Development Standards

- a. In addition to all other standards required by Heber City Code, the property shall follow all development standards outlined in Heber City Code Section 18.68.230 as currently written (Exhibit 2).
 - i. For clarification, playgrounds are counted toward the outdoor common area in this section.
- b. Phases. The project may be phased and all phases are under this agreement.

3. Utilities. In conjunction with the development of the Property, Petitioner shall construct all

utilities required for a development of this type according to Heber City codes and policies in place at the time of application. Petitioner acknowledges that all storm water must be treated and retained on site in accordance with Heber City's Storm Water Design Manual.

4. Improvements. Petitioner shall be responsible for the following improvements:
 - a. Repair or replace any damaged hardscape improvements along the property frontage in accordance with the Heber City Standard Drawings and Specifications.
 - b. All required improvements to the public right of way that is required for the development of the property.
5. Bonding for Improvements. Petitioner acknowledges that City may require a bond in the form approved by the City to guarantee completion of any public utilities, improvements or infrastructure prior to City issuing a building permit.
6. Concept Plan. The Concept Plan in Exhibit 3 is only a conceptual site plan and is subject to all Planning, Engineering, and Fire codes not expressly addressed in this Agreement.
7. Standards and Process. This Agreement does not waive any development approval processes or applicable City standards or codes unless otherwise specifically specified in this Agreement. The development of the site shall follow the applicable development, entitlement, and building processes, codes and standards of the City set forth at the time of application.
8. Underlying Zoning. At any time, the Petitioner may opt to develop the Property to the standards of the underlying zoning at the time of development application, and in doing so will forfeit any and all permitted rights under this Agreement.
9. Recording of Agreement. Upon execution, this Agreement shall be recorded with Wasatch County Recorder and shall be a covenant running with the land and shall be binding upon the Parties and their assigns and successors in interest.
10. Petitioner's Exclusive Remedy. Petitioner's sole and exclusive remedy under this Agreement shall be specific performance of the rights granted in this Agreement and City's obligations under this Agreement. IN NO EVENT SHALL HEBER CITY BE LIABLE TO PETITIONER, ITS SUCCESSORS OR ASSIGNS, FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS, COSTS OF DELAY, OR LIABILITIES TO THIRD PARTIES.
11. City's Remedies Upon Default. City shall have the right to withhold all further reviews, approvals, licenses, building permits and other permits for development of the Property in the case of a default by Petitioner until the default has been cured. City shall further have the right to draw on any security posted or provided in connection with the Property and relating to remedying of the particular default.
12. Term. This Agreement shall expire ten (10) years from the Effective Date unless extended in writing by the parties. This Agreement shall also terminate automatically at buildout. Notwithstanding the foregoing, any obligations of the Petitioner, including any obligations for which the Petitioner has provided a bond or other form of completion assurance, shall survive termination of this Agreement. Petitioner acknowledges and agrees that upon termination of

this Agreement, any vesting of the zoning or densities in this Agreement shall terminate, and the City shall be entitled to rezone any undeveloped portion of the project.

13. Waiver of Rights Under Utah Code Section 10-9a-532. The Parties have been represented by an attorney throughout this process or have had the opportunity to consult with an attorney. Developer acknowledges that this Agreement does not restrict any of Developer's rights under clearly established state law or that Developer has been advised in writing of any such rights being restricted. As an essential term of this Agreement, Developer hereby waives any claim that any term of this Agreement is void, illegal, invalid, or unenforceable as the result of any failure on the City's part to disclose in writing any rights being restricted by this Agreement.
14. Entire Agreement. This Agreement and the attached Exhibits, contain the entire Agreement between the parties and no statements, promises or inducements made by either Party shall be binding unless modified by a written document approved by both Parties.

IN WITNESS WHEREOF, the Parties hereto have set their hands the day and year first above written.



HEBER CITY:

By:

Heidi Franco
Heidi Franco, Mayor

ATTEST:

Krista W. Lister
Heber City Recorder

700 SHA, LLC

By: Paul G Johnson

Print Name: David G Johnson

Title: Manager

STATE OF UTAH)
 : Ss.
COUNTY OF WASATCH)

On this 1st day of May, 2024, personally appeared before me the above-named authorized representative of Petitioner, who duly acknowledged to me that Petitioner is the owner in fee of the land described herein and executed the same as such.

Trina N Cooke
NOTARY PUBLIC

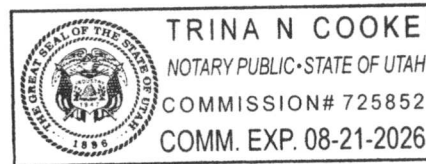


EXHIBIT 1: LEGAL DESCRIPTION

Wasatch County Parcel ID: 00-0009-0824

EXHIBIT "1"
Legal Description**For APN/Parcel ID(s): 00-0009-0824**

A PARCEL OF LAND LOCATED IN THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 4 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, TO WIT:

BEGINNING AT A POINT NORTH 89°43'23" EAST 1717.41 FEET AND SOUTH 00°16'37" EAST 2921.38 FEET AND SOUTH 41°20'15" WEST 293.98 FEET FROM THE WASATCH COUNTY MONUMENT FOR THE NORTHWEST CORNER OF SECTION 6, TOWNSHIP 4 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, SAID POINT BEING THE WESTERLY CORNER OF LOT 2A OF MIDDLE SCHOOL PLAT "B" SUBDIVISION (ENTRY NO. 277223 OF WASATCH COUNTY RECORDS), SAID POINT ALSO BEING ON THE RIGHT-OF-WAY LINE OF THE HEBER VALLEY HISTORIC RAILROAD; THENCE SOUTH 00°31'23" WEST 413.55 FEET ALONG THE WEST BOUNDARY LINE OF LOT 2A AND THE WEST RIGHT-OF-WAY LINE OF SCHOOL HOUSE ROAD; THENCE SOUTH 89°46'02" WEST 359.42 FEET ALONG THE NORTH BOUNDARY OF MY MOUNTAIN HOME PLAT 'C' SUBDIVISION (ENTRY NO. 242896) TO THE NORTHWESTERLY CORNER OF LOT 3 OF SAID SUBDIVISION; THENCE NORTH 41°11'29" EAST 551.48 FEET ALONG THE EASTERN RIGHT-OF-WAY OF THE HEBER VALLEY HISTORIC RAILROAD TO THE POINT OF BEGINNING.

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ALTA Homeowner's Policy of Title Insurance (Adopted 10-17-98
Revised 10-22-03 01-01-08 02-03-10) (12/02/2013)



EXHIBIT 2: SECTION 18.68.230

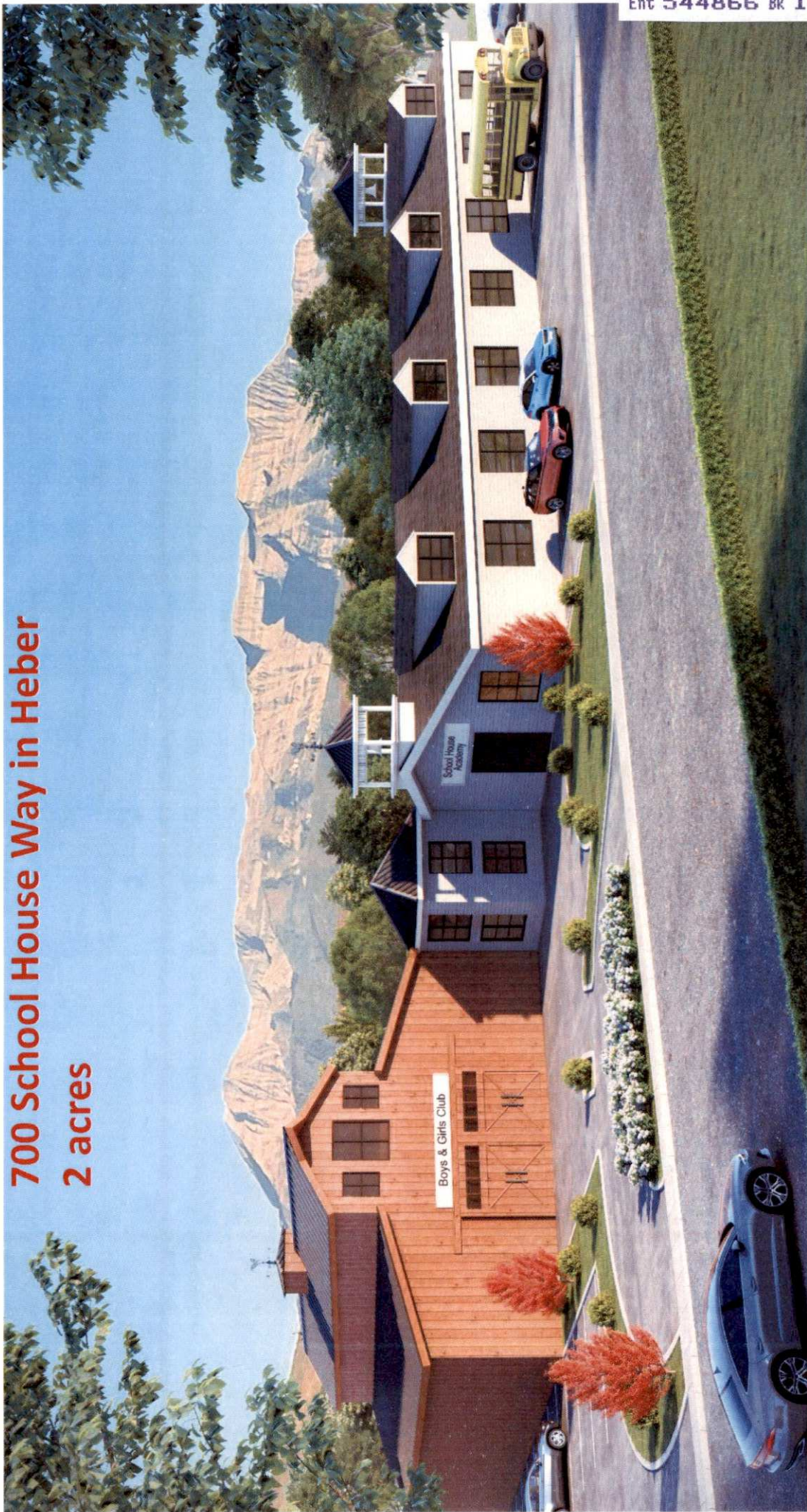
18.68.230 Private Schools In Residential Zones

Private schools in residential zones shall be reviewed by the Community Development Director and approved if the application meets the following standards.

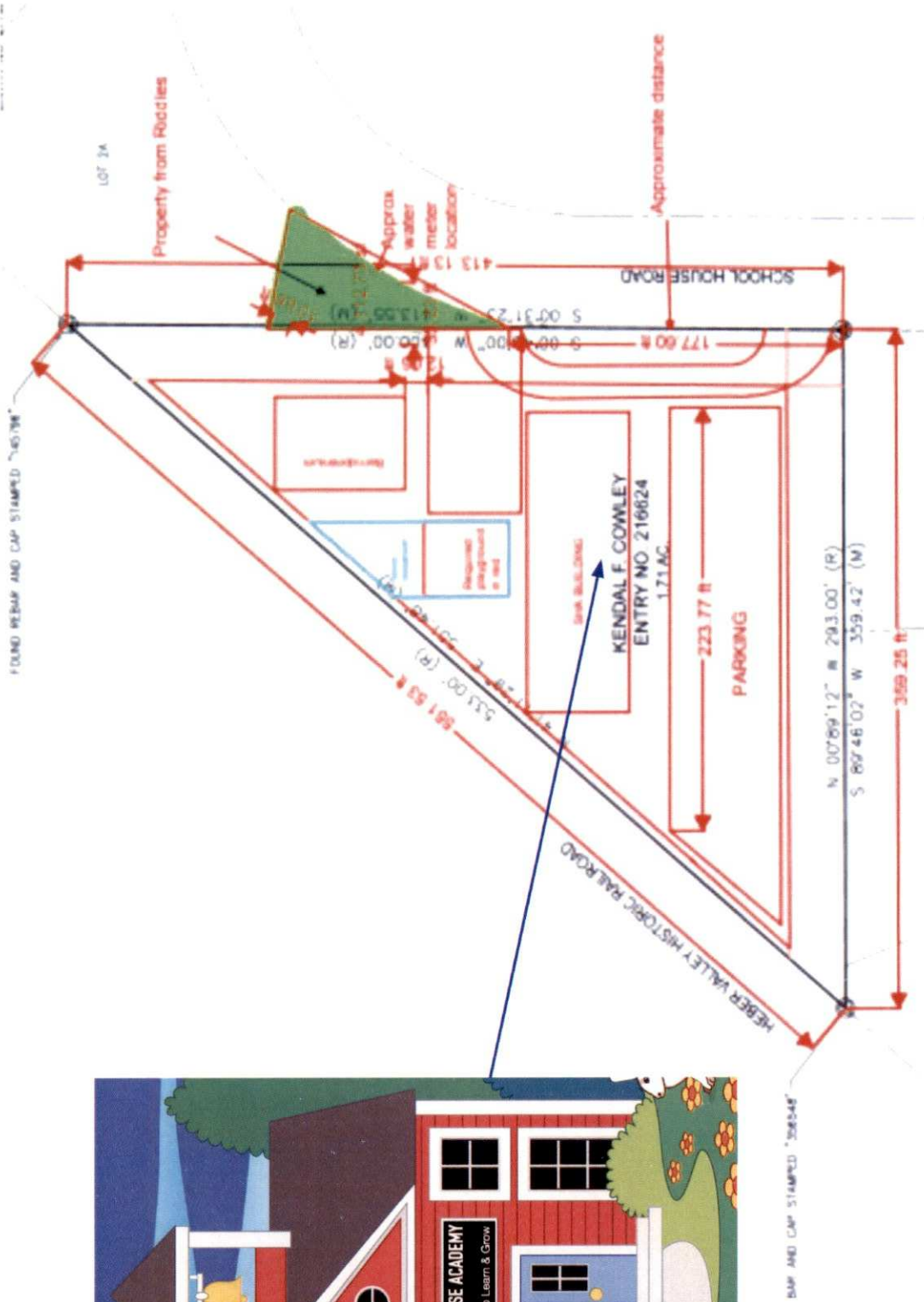
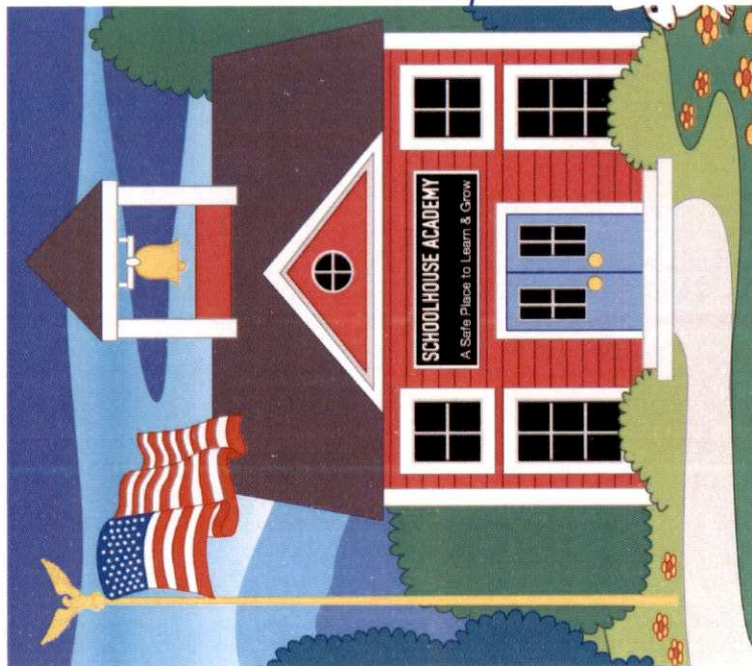
- A. Building and Health Codes. The site shall comply with applicable health, building and fire codes.
- B. Licenses. The private school shall obtain applicable state and local business licenses.
- C. Site size. The site shall contain at least 1 acre.
- D. Street Access. The site shall front upon and directly access a Collector or Major Collector Street.
- E. Parking. See Parking Chapter 18.72.
- F. Building setbacks. Building setbacks shall meet the requirements of the underlying zone.
- G. Height. Building height shall not exceed 30' above grade.
- H. Loading and unloading. 1 off-street loading/unloading space for every 20 people, or portion thereof enrolled. Loading space requirement may be eliminated if there is a circular drive-way.
- I. Lot Coverage. No more than 30 percent of the lot shall be covered by buildings.
- J. Common Areas. The site shall provide landscaped outdoor common area for use by students, covering a minimum of 20% of the site.
- K. Screening and Fencing. Evergreen trees and shrubbery shall be planted along property lines shared with adjoining residential subdivisions.

EXHIBIT 3: CONCEPT PLANS

700 School House Way in Heber
2 acres



Phase 2



11/10/2006 10:00:00 AM

[illegible]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 01-20-2001 BY 60322 UCBAW/STP/STP

THE BASES OF BEARINGS FOR THIS SURVEY IS NORTH 60°13'37" WEST 2663.99 FEET FROM THE WEST 1/4 CORNER TO THE NORTHWEST CORNER OF SECTION 8, TOWNSHIP 4 & SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, IN CONFORMANCE WITH UTAH STATE PLANE COORDINATE SYSTEM 1983. CENTRAL ZONE BEARINGS.

THE PURPOSE OF THIS SURVEY IS TO ESTABLISH THE BOUNDARY OF ENTRY NO. 256614 TO CANADIAN TO EXISTING CONDITIONS. THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE NORTH BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE SOUTH BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE EAST BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE WEST BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE NORTH BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE SOUTH BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE EAST BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°. THE WEST BOUNDARY OF THE SURVEYED BOUNDARY WAS TO BE CONCURRENT WITH THE REEF VALLEY HALLOWAY NORTH OF 44°.

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LOCATED IN THE SOUTHWEST 1/4 OF SECTION 10, T12N, R10E, S14E SALT LAKE COUNTY, UTAH	SUMMIT ENGINEERING GROUP INC. SUMMIT ENGINEERING GROUP INC. STRUCTURES • SOILS • LAND SURVEYING 1000 SOUTH 1000 WEST, SUITE 200 SALT LAKE CITY, UTAH 84119 TEL. 505-581-4300 FAX 505-581-4301	CONTRACT NO. 95-0001 PROJECT NO. 95-0001 DRAWING NO. 1000-1000-1000
SHEET NO. 1000 REVISED BY: BIC SCALE: 1" = 40' ISSUE DATE: 10-20-90	PROJECT NO. 95-0001 DRAWING NO. 1000-1000-1000	

RECORD OF SURVEY

PREPARED FOR	BOB KOWALLIS
PROJECT	HEBER CITY TRIANGLE PARCEL

School House Academy

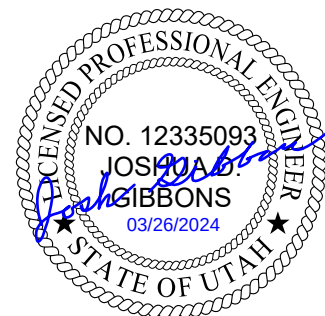
Traffic Impact Study



Heber, Utah

March 26, 2024

UT24-2722



EXECUTIVE SUMMARY

This study addresses the traffic impacts associated with the proposed School House Academy located in Heber, Utah. The proposed project is located on the west side of School House Way, south of 650 South.

The purpose of this traffic impact study is to analyze traffic operations at key intersections for existing (2024) conditions with and without the proposed project and to recommend mitigation measures as needed. The morning peak hour level of service (LOS) results are shown in Table ES-1. A site plan of the project is provided in Appendix A.

Table ES-1: Morning Peak Hour Level of Service Results

Intersection	Level of Service		Level of Service	
	Existing (2024)		Existing (2024)	
	Background	Plus Project	Background	Plus Project
1 School House Way / 650 South	A	A	A	A
2 NW Middle School Access & South Access / School House Way	a	a	a	b
3 Hicken Lane / School House Way	a	a	a	a
4 School House Way / 600 West	A	A	A	A
5 North Access / School House Way	-	a	-	a

1. Intersection LOS values represent the overall intersection average for roundabout, signalized, and all-way stop-controlled (AWSC) intersections (uppercase letter) and the worst movement for all other unsignalized intersections (lowercase letter)

Source: Hales Engineering, March 2024

SUMMARY OF KEY FINDINGS & RECOMMENDATIONS

Project Conditions

- The development will consist of a daycare with an initial capacity of 84 kids and a future capacity of 188 kids
- The project at full-build is anticipated to generate approximately 770 weekday daily trips, including 148 trips in the morning peak hour, and 150 trips in the evening peak hour
- Based on observations at other daycares and the expected demand for the study site, it is recommended that space be provided for at least 9 cars to park temporarily on-site to drop-off and pick-up kids, which can be accommodated in the front port cochere and/or in the parking lot

2024	Background	Plus Project
Findings	• Acceptable LOS	• Acceptable LOS
2029	Background	Plus Project
Findings	• Acceptable LOS	• Acceptable LOS

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I. INTRODUCTION

A. Purpose

This study addresses the traffic impacts associated with the proposed School House Academy located in Heber, Utah. The proposed project is located on the west side of School House Way, south of 650 South. Figure 1 shows a vicinity map of the proposed development.

The purpose of this traffic impact study is to analyze traffic operations at key intersections for existing (2024) conditions with and without the proposed project and to recommend mitigation measures as needed.



Figure 1: Vicinity map showing the project location in Heber, Utah

B. Scope

The study area was defined based on conversations with the development team. This study was scoped to evaluate the traffic operational performance impacts of the project on the following intersections:

- School House Way / 650 South
- Northwest Middle School Access & South Access / School House Way
- Hicken Lane / School House Way
- School House Way / 600 West
- North Access / School House Way

C. Analysis Methodology

Level of service (LOS) is a term that describes the operating performance of an intersection or roadway. LOS is measured quantitatively and reported on a scale from A to F, with A representing the best performance and F the worst. Table 1 provides a brief description of each LOS letter designation and an accompanying average delay per vehicle for both signalized and unsignalized intersections.

The *Highway Capacity Manual* (HCM), 7th Edition, 2022 methodology was used in this study to remain consistent with “state-of-the-practice” professional standards. This methodology has different quantitative evaluations for signalized and unsignalized intersections. For signalized, roundabout, and all-way stop-controlled (AWSC) intersections, the LOS is provided for the overall intersection (weighted average of all approach delays). For all other unsignalized intersections, LOS is reported based on the worst movement.

Using Synchro/SimTraffic software, which follow the HCM methodology, the peak hour LOS was computed for each study intersection. Multiple runs of SimTraffic were used to provide a statistical evaluation of the interaction between the intersections. The detailed LOS reports are provided in Appendix C. Hales Engineering also calculated the 95th percentile queue lengths for the study intersections using SimTraffic. The detailed queue length reports are provided in Appendix D.

Many of the figures in this report are printouts of the Synchro model. These figures are not meant to be a design exhibit for exact lane striping and design, due to the limitations of the Synchro software. Instead, the purpose of these figures is to show assumed peak hour turning movement volumes and the conceptual travel lane configuration of the study roadway network.

D. Level of Service Standards

For the purposes of this study, a minimum acceptable intersection performance for each of the study intersections was set at LOS C per Heber City standards. If levels of service D, E, or F conditions exist, an explanation and/or mitigation measures will be presented.

Table 1: Level of Service Description

LOS		Description of Traffic Conditions	Average Delay (seconds/vehicle)	
			Signalized Intersections	Unsignalized Intersections
A		Free Flow / Insignificant Delay	≤ 10	≤ 10
B		Stable Operations / Minimum Delays	> 10 to 20	> 10 to 15
C		Stable Operations / Acceptable Delays	> 20 to 35	> 15 to 25
D		Approaching Unstable Flows / Tolerable Delays	> 35 to 55	> 25 to 35
E		Unstable Operations / Significant Delays	> 55 to 80	> 35 to 50
F		Forced Flows / Unpredictable Flows / Excessive Delays	> 80	> 50

Source: Hales Engineering Descriptions, based on the *Highway Capacity Manual* (HCM), 7th Edition, 2022 Methodology (Transportation Research Board)

II. EXISTING (2024) BACKGROUND CONDITIONS

A. Purpose

The purpose of the background analysis is to study the intersections and roadways during the peak travel periods of the day with background traffic and geometric conditions. Through this analysis, background traffic operational deficiencies can be identified, and potential mitigation measures recommended. This analysis provides a baseline condition that may be compared to the build conditions to identify the impacts of the development.

B. Roadway System

The primary roadways that will provide access to the project site are described below:

School House Way – is a city-maintained roadway which is classified by the Heber General Plan (2020) as a minor collector. The roadway has one travel lane in each direction. The posted speed limit is 25 mph in the study area.

C. Traffic Volumes

Weekday morning (7:00 to 9:00 a.m.) peak period traffic counts were performed at the following intersections:

- School House Way / 650 South
- Northwest Middle School Access / School House Way
- Hicken Lane / School House Way
- School House Way / 600 West

The counts were performed on Wednesday, March 6, 2024. The morning peak hour was determined to be between 7:15 and 8:15 a.m. Only the morning peak hour volumes were collected knowing that this peak hour would represent the worst-case conditions due to the existing Rocky Mountain Middle School and Heber Vally Middle School near the project site. Another peak of the proposed development is anticipated to be an evening peak hour, which normally has no traffic from the local schools. Detailed count data are included in Appendix B.

Hales Engineering did not make seasonal adjustments to the observed traffic volumes due to there not being a local UDOT automatic traffic recorder (ATR) that matched a similar road facility.

Figure 2 shows the existing morning peak hour volumes as well as intersection geometry at the study intersections.

Heber School House Academy TIS
Existing (2024) Background

Morning Peak Hour
Figure 2



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03/13/2024

D. Level of Service Analysis

Hales Engineering determined that all study intersections are currently operating at acceptable levels of service during the morning peak hour, as shown in Table 2. These results serve as a baseline condition for the impact analysis of the proposed development during existing (2024) conditions.

E. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. No significant queueing was observed during the morning peak hour.

F. Mitigation Measures

No mitigation measures are recommended.

Table 2: Existing (2024) Background Morning Peak Hour LOS

Intersection		Level of Service		
Description	Control	Movement ¹	Aver. Delay (Sec. / Veh.)	LOS ²
School House Way / 650 South	AWSC	-	5.3	A
NW Middle School Access / School House Way	WB Stop	WBL	7.7	a
Hicken Lane / School House Way	EB Stop	EBL	5.9	a
School House Way / 600 West	AWSC	-	5.5	A

1. Movement indicated for unsignalized intersections where delay and LOS represents worst movement. SBL = Southbound left movement, etc.

2. Uppercase LOS used for signalized, roundabout, and AWSC intersections. Lowercase LOS used for all other unsignalized intersections.

Source: Hales Engineering, March 2024

III. PROJECT CONDITIONS

A. Purpose

The project conditions discussion explains the type and intensity of development. This provides the basis for trip generation, distribution, and assignment of project trips to the surrounding study intersections defined in Chapter I.

B. Project Description

The proposed School House Academy is located on the west side of School House Way, south of 650 South. The project will consist of a day care facility. It is anticipated that the day care facility will have an initial capacity of 84 kids and 17 employees, with a full-build capacity of 188 kids in the future. In addition, it is anticipated that there will be some after-school programs for older kids to attend. However, per the project team, these older kids will be brought to the site in larger groups in buses or shuttles to minimize traffic impact. The initial capacity was assumed for the existing (2024) plus project analysis and the full-build capacity was assumed for the future (2029) plus project analysis. A concept plan for the proposed development is provided in Appendix A.

C. Trip Generation

Trip generation for the development was calculated using trip generation rates published in the Institute of Transportation Engineers (ITE), *Trip Generation*, 11th Edition, 2021. Trip generation for the proposed project is included in Table 3.

The full-build trip generation for the development is as follows:

- Daily Trips: 770
- Morning Peak Hour Trips: 148
- Evening Peak Hour Trips: 150

The opening year trip generation is anticipated to be approximately 45% of full build.

D. Trip Distribution and Assignment

Project traffic is assigned to the roadway network based on the type of trip and the proximity of project access points to major streets, high population densities, and regional trip attractions. Existing travel patterns observed during data collection also provide helpful guidance to establishing these distribution percentages, especially near the site. The resulting distribution of project generated trips during the morning peak hour is shown in Table 4.

Table 3: Trip Generation

Trip Generation Heber - School House Academy TIS								
Land Use ¹	# of Units	Unit Type	Trip Generation			New Trips		
			Total	% In	% Out	In	Out	Total
Weekday Daily								
Day Care Center (565)	188	Students	770	50%	50%	385	385	770
TOTAL			770			385	385	770
AM Peak Hour								
Day Care Center (565)	188	Students	148	53%	47%	78	70	148
TOTAL			148			78	70	148
PM Peak Hour								
Day Care Center (565)	188	Students	150	47%	53%	71	79	150
TOTAL			150			71	79	150
1. Land Use Code from the Institute of Transportation Engineers (ITE) <u>Trip Generation</u> , 11th Edition, 2021.								
SOURCE: Hales Engineering, March 2024								

Table 4: Trip Distribution

Direction	% To/From Project
North	40%
South	30%
East	15%
West	15%

These trip distribution assumptions were used to assign the morning peak hour trip generation at the study intersections to create trip assignment for the proposed development. Trip assignment for the development in 2024 and 2029 conditions is shown in Figure 3.

E. Access

The proposed access for the site will be gained at the following locations:

School House Way:

- The North Access will be located approximately 665 feet south of the School House Way / 650 South intersection on the west side of School House Way. It is anticipated that the access will be stop-controlled and ingress only.
- The North Access will be located across from the Northwest Middle School Access on the west side of School House Way. It is anticipated that the access will be stop-controlled and egress only.

Heber School House Academy TIS
Trip Assignment (2024)

Morning Peak Hour
Figure 3A

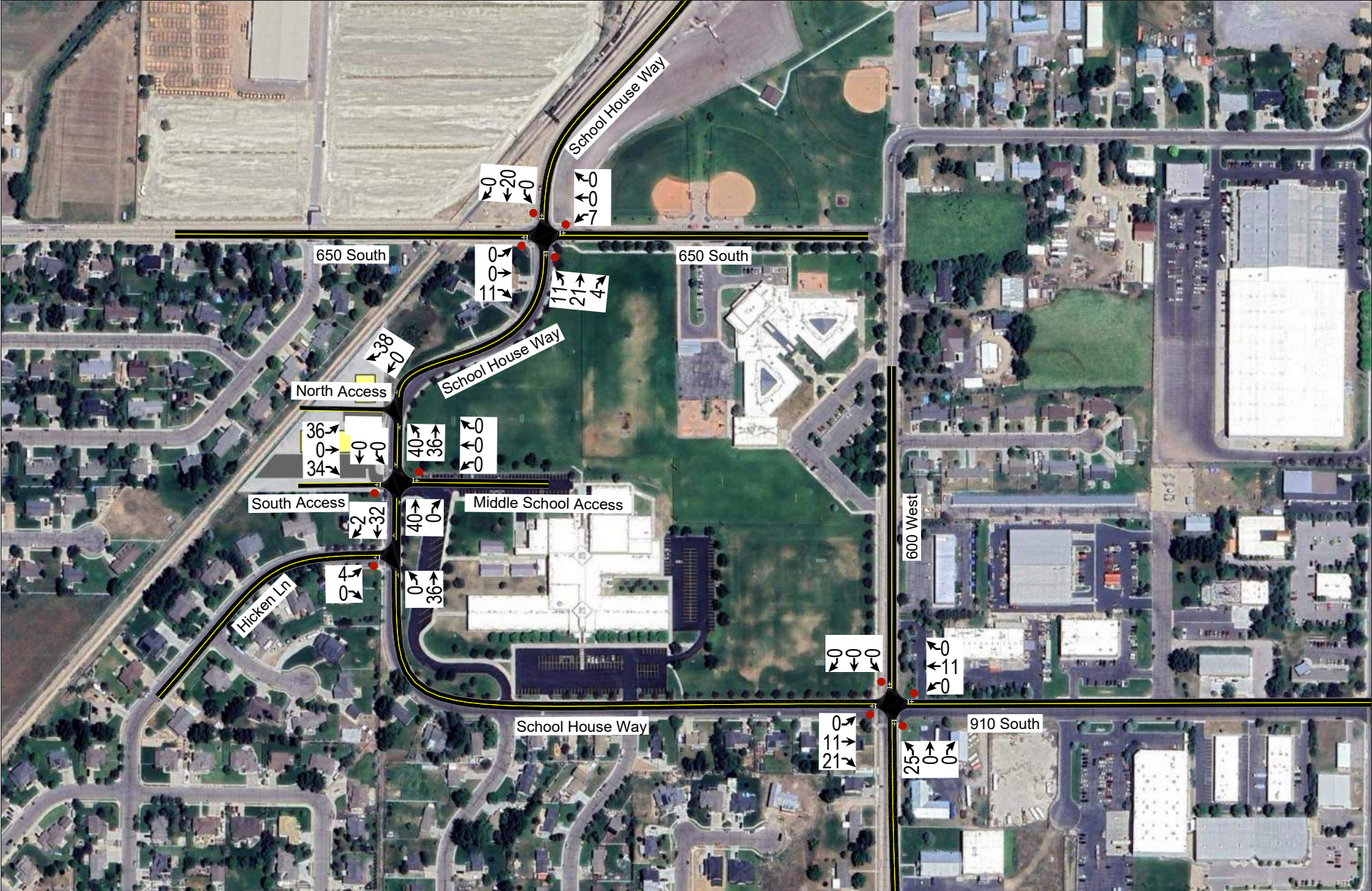


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Heber School House Academy TIS
Trip Assignment (2029)

Morning Peak Hour
Figure 3B



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F. Auxiliary Lanes

Auxiliary lanes are deceleration (ingress) or acceleration (egress) turn lanes that provide for safe turning movements that have less impact on through traffic. These lanes are sometimes needed at accesses or roadway intersections if right- or left-turn volumes are high enough.

Deceleration (ingress) lanes are generally needed when there are at least 50 right-turn vehicles or 25 left-turn vehicles in an hour, though thru volumes and safety considerations should also be taken into account. While the threshold is met for left turns into the North Access, the presence of a left-turn lane would create an unsafe condition with southbound left-turning vehicles at the Middle School Access due to the offset. For this reason, no auxiliary lanes are recommended.

G. On-Site Queueing Analysis

Hales Engineering completed an on-site queueing analysis to ensure that enough queue storage is provided on-site for the expected vehicle demand. Hales Engineering used ITE time-of-day trip data for day care land uses, which specifies trip demands for each 15-minute period of the day. Based on the trip generation discussed previously, it is anticipated that there will be approximately 70 vehicles dropping kids off in the morning peak hour and 71 vehicles picking kids up in the evening peak hour. Based on the ITE data, the peak 15-minute vehicle volume is expected to be 9 vehicles in either peak hour.

Based on observations at other daycares, it is anticipated that the evening pick-up takes longer than the morning drop-off. Evening pick-ups have been observed to take approximately 5 minutes on average. With this assumption and the expectation of up to 19 vehicles in a 15-minute period, it is anticipated that there could be an average of 6 vehicles on-site picking kids up in the evening. To account for surges in demand, Hales Engineering also looked at a scenario of 9 vehicles arriving in a 5-minute period. This would result in approximately 9 vehicles on site at once, since the assumed pick-up time is 5 minutes. Based on this, it is recommended that space be made available on-site for at least 9 vehicles to park to pick-up their kids.

Based on the preliminary site layout, it is anticipated that 4 vehicles could fit lined up in front of the building in the port cochere area. Therefore, it is recommended that at least 5 standard parking stalls be kept available for parents to use to park when picking up their children, to have space for at least 9 cars on site.

IV. EXISTING (2024) PLUS PROJECT CONDITIONS

A. Purpose

The purpose of the existing (2024) plus project analysis is to study the intersections and roadways during the peak travel periods of the day for existing background traffic and geometric conditions plus the net trips generated by the proposed development. This scenario provides valuable insight into the potential impacts of the proposed project on background traffic conditions.

B. Traffic Volumes

Hales Engineering added the project trips discussed in Chapter III to the existing (2024) background traffic volumes to predict turning movement volumes for existing (2024) plus project conditions. Existing (2024) plus project morning peak hour turning movement volumes are shown in Figure 4.

C. Level of Service Analysis

Hales Engineering determined that all intersections are anticipated to operate at acceptable levels of service during the morning peak hour with project traffic added, as shown in Table 5.

Table 5: Existing (2024) Plus Project Morning Peak Hour LOS

Intersection		Level of Service		
Description	Control	Movement ¹	Aver. Delay (Sec. / Veh.)	LOS ²
School House Way / 650 South	AWSC	-	5.3	A
NW Middle School Access & South Access / School House Way	EB/WB Stop	WBL	8.4	a
Hicken Lane / School House Way	EB Stop	EBL	6.8	a
School House Way / 600 West	AWSC	-	5.5	A
North Access / School House Way	N/A (Ingress)	NBL	2.5	a

1. Movement indicated for unsignalized intersections where delay and LOS represents worst movement. SBL = Southbound left movement, etc.

2. Uppercase LOS used for signalized, roundabout, and AWSC intersections. Lowercase LOS used for all other unsignalized intersections.

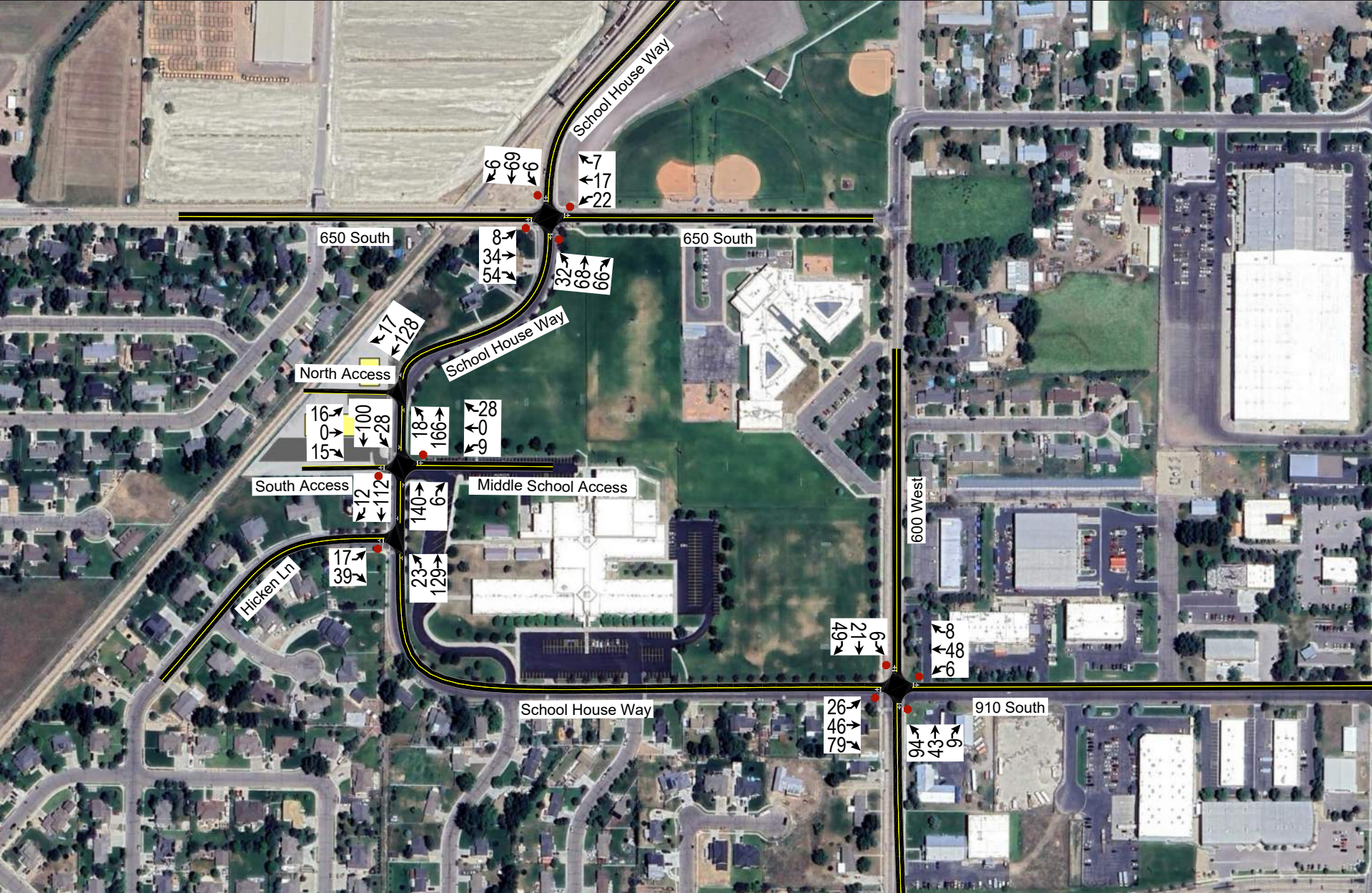
Source: Hales Engineering, March 2024

D. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. No significant queueing is anticipated during the morning peak hour.

Heber School House Academy TIS
Existing (2024) Plus Project

Morning Peak Hour
Figure 4



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E. Mitigation Measures

No mitigation measures are recommended. Some queueing is expected between the North Access and the NW Middle School Access / South Access with left-turn vehicles having to wait for gaps to turn into the Middle School or School House Academy. No two-way left-turn lane (TWLTL) is recommended on School House Way as this would result in a conflict between northbound and southbound left-turn vehicles on School House Way.

V. FUTURE (2029) BACKGROUND CONDITIONS

A. Purpose

The purpose of the future (2029) background analysis is to study the intersections and roadways during the peak travel periods of the day for future background traffic and geometric conditions. Through this analysis, future background traffic operational deficiencies can be identified, and potential mitigation measures recommended.

B. Roadway Network

According to the Wasatch Rural Planning Organization (RPO), 650 South is planned to gain a center turn lane as part of a Phase 1 project. Because the exact year of implementation is unknown, this improvement was not assumed to be conservative.

C. Traffic Volumes

Hales Engineering obtained future (2029) forecasted volumes from the Summit & Wasatch County travel demand model. Peak period turning movement counts were estimated using National Cooperative Highway Research Program (NCHRP) 255 methodologies which utilize existing peak period turn volumes and future average weekday daily traffic (AWDT) volumes to project the future turn volumes at the major intersections. Future (2029) morning peak hour turning movement volumes are shown in Figure 5.

D. Level of Service Analysis

Hales Engineering determined that all study intersections are anticipated to operate at acceptable levels of service during the morning peak hour in future (2029) background conditions, as shown in Table 6. These results serve as a baseline condition for the impact analysis of the proposed development for future (2029) conditions.

E. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. No significant queueing is anticipated during the morning peak hour.

F. Mitigation Measures

No mitigation measures are recommended.

Heber School House Academy TIS
Future (2029) Background

Morning Peak Hour
Figure 5



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Table 6: Future (2029) Background Morning Peak Hour LOS

Intersection		Level of Service		
Description	Control	Movement ¹	Aver. Delay (Sec. / Veh.)	LOS ²
School House Way / 650 South	AWSC	-	5.8	A
NW Middle School Access / School House Way	WB Stop	WBL	9.2	a
Hicken Lane / School House Way	EB Stop	EBL	6.3	a
School House Way / 600 West	AWSC	-	6.0	A

1. Movement indicated for unsignalized intersections where delay and LOS represents worst movement. SBL = Southbound left movement, etc.

2. Uppercase LOS used for signalized, roundabout, and AWSC intersections. Lowercase LOS used for all other unsignalized intersections.

Source: Hales Engineering, March 2024

VI. FUTURE (2029) PLUS PROJECT CONDITIONS

A. Purpose

The purpose of the future (2029) plus project analysis is to study the intersections and roadways during the peak travel periods of the day for future background traffic and geometric conditions plus the net trips generated by the proposed development. This scenario provides valuable insight into the potential impacts of the proposed project on future background traffic conditions.

B. Traffic Volumes

Hales Engineering added the project trips discussed in Chapter III to the future (2029) background traffic volumes to predict turning movement volumes for future (2029) plus project conditions. Future (2029) plus project morning peak hour turning movement volumes are shown in Figure 6.

C. Level of Service Analysis

Hales Engineering determined that all intersections are anticipated to operate at acceptable levels of service during the morning peak hour in future (2029) plus project conditions, as shown in Table 7.

Table 7: Future (2029) Plus Project Morning Peak Hour LOS

Intersection		Level of Service		
Description	Control	Movement ¹	Aver. Delay (Sec. / Veh.)	LOS ²
School House Way / 650 South	AWSC	-	6.5	A
NW Middle School Access & South Access / School House Way	EB/WB Stop	EBL	12.3	b
Hicken Lane / School House Way	EB Stop	EBL	7.0	a
School House Way / 600 West	AWSC	-	6.5	A
North Access / School House Way	N/A (Ingress)	NBL	3.0	a

1. Movement indicated for unsignalized intersections where delay and LOS represents worst movement. SBL = Southbound left movement, etc.

2. Uppercase LOS used for signalized, roundabout, and AWSC intersections. Lowercase LOS used for all other unsignalized intersections.

Source: Hales Engineering, March 2024

D. Queuing Analysis

Hales Engineering calculated the 95th percentile queue lengths for each of the study intersections. No significant queueing is anticipated during the morning peak hour.

Heber School House Academy TIS
Future (2029) Plus Project

Morning Peak Hour
Figure 6



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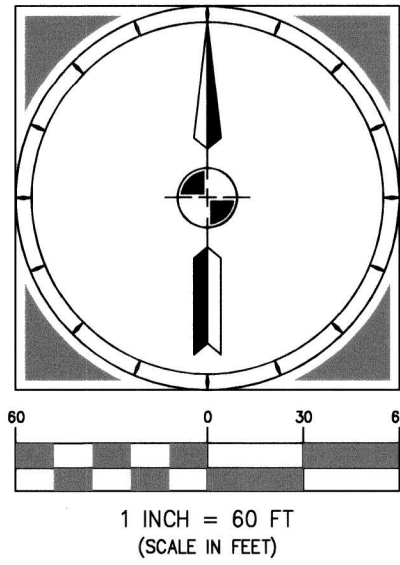
801.766.4343
03/26/2024

E. Mitigation Measures

No mitigation measures are recommended.

APPENDIX A

Site Plan



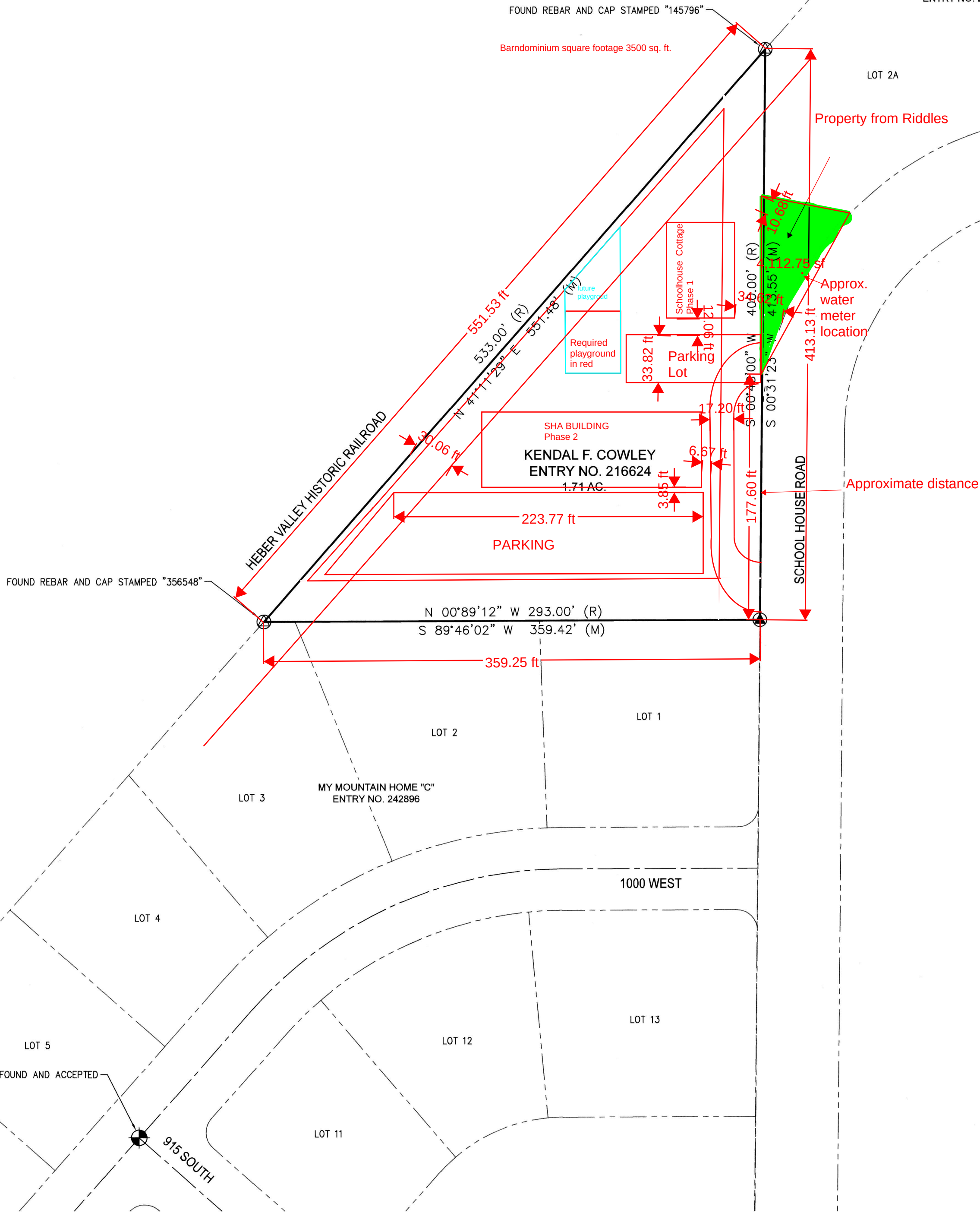
1995 WASATCH COUNTY SURVEY
MONUMENT FOR THE NORTHWEST CORNER
OF SECTION 6, T4S, R5E, SLB&M

N 00°12'37" W 2663.99'

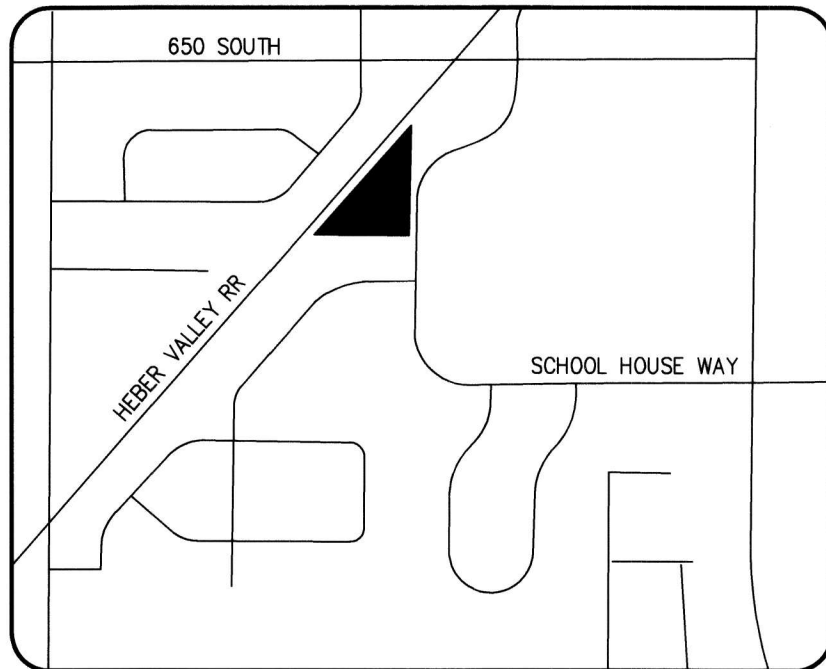
1995 WASATCH COUNTY SURVEY
MONUMENT FOR THE WEST 1/4 CORNER
OF SECTION 6, T4S, R5E, SLB&M

LEGEND

- FOUND REBAR & CAP (SEE MAP FOR DETAILS)
- SET REBAR & CAP STAMPED 'SUMMIT ENG 435-654-9229'
- FOUND AND ACCEPTED STREET MONUMENT
- PROPERTY BOUNDARY
- ADJOINING PROPERTY LINES



VICINITY MAP



SURVEYOR'S CERTIFICATE

- I, BING CHRISTENSEN, CERTIFY THAT I AM LICENSED AS A PROFESSIONAL LAND SURVEYOR IN THE STATE OF UTAH (REF. NO. 145796) IN ACCORDANCE WITH TITLE 58, CHAPTER 22, PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS LICENSING ACT. I FURTHER CERTIFY THAT:
- THIS PLAT REPRESENTS THE RESULTS OF A BOUNDARY SURVEY CONDUCTED UNDER MY SUPERVISION AT THE REQUEST OF BOB KOWALLIS.
 - THE LAND SURVEYED LIES WITHIN SECTION 6, TOWNSHIP 4 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, WASATCH COUNTY, UTAH, AND THE SURVEY WAS COMPLETED DURING OCTOBER 2020.
 - THIS PLAT COMPLIES WITH APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH TITLE 17, CHAPTER 23, PARAGRAPH 17, OF THE UTAH CODE.
 - THE MONUMENTS DEPICTED AS FOUND AND/OR SET ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT DURABILITY.

BOUNDARY DESCRIPTION

QUIT CLAIM DEED (ENTRY NO. 216624)

BEGINNING AT A POINT 3.98 CHAINS SOUTH AND 17.34 CHAINS NORTH 89°12' WEST AND SOUTH 0°48' WEST 10.12 CHAINS FROM THE NORTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 6 TOWNSHIP 4 SOUTH, RANGE 5 EAST OF THE SALT LAKE MERIDIAN; AND RUNNING THENCE NORTH 0°48' EAST 400 FEET, MORE OR LESS TO THE SOUTHEASTERLY RIGHT OF WAY LINE OF THE DENVER AND RIO GRANDE RAILWAY COMPANY, THENCE SOUTHWESTERLY ALONG THE SOUTHEASTERLY RIGHT OF WAY LINE OF SAID RAILWAY 533 FEET, MORE OR LESS, TO A POINT NORTH 89°12' WEST FROM THE POINT OF BEGINNING. TOGETHER WITH ALL IMPROVEMENTS THEREON AND APPURTENANCES THEREUNTO BELONGING.

SURVEYED DESCRIPTION AS SHOWN HEREON:

A PARCEL OF LAND LOCATED IN THE SOUTHWEST 1/4 OF SECTION 6, TOWNSHIP 4 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, ALSO DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT NORTH 89°43'23" EAST 1717.41 FEET, AND SOUTH 00°16'37" EAST 2921.38 FEET, AND SOUTH 41°20'15" WEST 293.98 FEET FROM THE WASATCH COUNTY MONUMENT FOR THE NORTHWEST CORNER OF SECTION 6, TOWNSHIP 4 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, SAID POINT OF BEGINNING BEING THE WESTERLY CORNER OF LOT 2A OF MIDDLE SCHOOL PLAT "B" SUBDIVISION (ENTRY NO. 277223), SAID POINT ALSO BEING ON THE RIGHT-OF-WAY LINE OF THE HEBER VALLEY HISTORIC RAILROAD; THENCE SOUTH 00°31'23" WEST 413.55 FEET ALONG THE WEST BOUNDARY LINE OF LOT 2A AND THE WEST BOUNDARY LINE OF SCHOOL HOUSE ROAD; THENCE SOUTH 89°46'02" WEST 359.42 FEET ALONG THE NORTH BOUNDARY OF MY MOUNTAIN HOME PLAT "C" SUBDIVISION (ENTRY NO. 242896) TO THE NORTHWESTERLY CORNER OF LOT 3 OF SAID SUBDIVISION; THENCE NORTH 41°11'29" EAST 551.48 FEET ALONG THE SOUTHEASTERLY RIGHT-OF-WAY OF THE HEBER VALLEY HISTORIC RAILROAD TO THE POINT OF BEGINNING. CONTAINING 1.71 ACRES.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS NORTH 00°12'37" WEST 2663.99 FEET FROM THE WEST 1/4 CORNER TO THE NORTHWEST CORNER OF SECTION 6, TOWNSHIP 4 SOUTH, RANGE 5 EAST, SALT LAKE BASE AND MERIDIAN, IN CONFORMANCE WITH UTAH STATE PLANE COORDINATE SYSTEM 1983 CENTRAL ZONE BEARINGS.

SURVEY NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO ESTABLISH THE BOUNDARY OF ENTRY NO. 216624 TO CONFORM TO EXISTING CONDITIONS. THE SURVEYED BOUNDARY WAS MADE TO BE COINCIDENT WITH THE HEBER VALLEY RAILROAD RIGHT-OF-WAY, THE NORTH BOUNDARY OF MY MOUNTAIN HOME "C" (ENTRY NO. 242896), AND THE WEST RIGHT-OF-WAY OF SCHOOL HOUSE ROAD AS SHOWN HEREON. THE BEARINGS OF THE MIDDLE SCHOOL PLAT "B" (ENTRY NO. 277223) TO CONFORM TO THE BASIS OF BEARINGS OF THIS SURVEY. THE ROTATION IS 00°16'37" IN THE COUNTER CLOCKWISE DIRECTION. SEE GENERAL NOTE 2 BELOW FOR CREATING A NEW LEGAL DESCRIPTION USING INFORMATION ON THIS SURVEY.

FILING NUMBER 0003536 FILED Nov 5, 2020 TIME 16:38

FILING DATE Nov 5, 2020 TIME 16:38

FILED FOR SUMMIT ENGINEERING GROUP, INC.

SURVEYED FOR BOB KOWALLIS

BING CHRISTENSEN
PROFESSIONAL LAND SURVEYOR

11-04-20
DATE

SURVEYOR'S SEAL

GENERAL NOTES

- THIS SURVEY DOES NOT GUARANTEE TITLE TO LINE, NOR IS IT PROOF OF OWNERSHIP, NOR IS IT A LEGAL INSTRUMENT OF CONVEYANCE. FURTHERMORE, ANY SURVEY MARKERS SET IN CONJUNCTION WITH THIS SURVEY ARE NOT INTENDED TO REPRESENT EVIDENCE OF OWNERSHIP OF THE SUBJECT PROPERTY OR ITS ADJOINERS. THE GENERAL INTENT OF THIS SURVEY IS TO PORTRAY WHERE POSSIBLE THE RECORD TITLE LINES OF THE SUBJECT PROPERTY AND TO SHOW THEIR RELATIONSHIP TO ANY EVIDENCE OF USE AND/OR POSSESSION.
- IN THE EVENT THAT THIS SURVEY DETERMINES THAT THE CREATION OF A NEW/IMPROVED LEGAL DESCRIPTION IS ADVISABLE AND NECESSARY TO AID THE RESOLUTION OF KNOWN BOUNDARY CONFLICTS, IT SHOULD BE UNDERSTOOD THAT SUCH A LEGAL DESCRIPTION, AS MIGHT BE SHOWN AND PROVIDED HEREON, DOES NOT AUTOMATICALLY REPLACE OR EXTINGUISH RECORD TITLE LINES AND SHOULD NOT BE USED IN INSTRUMENTS OF CONVEYANCE BY WARRANTY OR FOR THE BOUNDARY LINES OF FUTURE DEVELOPMENTS UNLESS THE BOUNDARY LINES OF SUCH A LEGAL DESCRIPTION, AS MIGHT BE PROVIDED HEREON, HAVE BEEN ESTABLISHED AND AGREED UPON BY APPROPRIATE AND LEGAL MEANS BETWEEN RELEVANT PARTIES. TO HELP PREPARE SUCH AGREEMENTS, SOLICITATION OF COMPETENT LEGAL COUNSEL IS STRONGLY RECOMMENDED.
- IN THE EVENT THAT THIS SURVEY WAS PERFORMED FOR THE PURPOSE OF PARCELING PROPERTY ACCORDING TO DIRECTIONS FROM THE CLIENT, UNDER NO CIRCUMSTANCE SHOULD THE PARCELING OF PROPERTY AS MIGHT BE SHOWN HEREON AND DESCRIBED BY LEGAL DESCRIPTION ABOVE, BE INTERPRETED AS REPRESENTING A LEGAL SUBDIVISION OF LOTS OF RECORD SANCTIONED OR APPROVED BY CITY OR COUNTY GOVERNMENT OFFICES. INSTEAD, THIS SURVEY AND ANY INFORMATION PROVIDED HEREON ARE INTENDED NEITHER TO CREATE NOR DESTROY LOT OF RECORD STATUS AND ASSOCIATIVE ENTITLEMENTS AND MAKES NO CLAIM AS TO LOT CONFORMANCE BY STATUTE. PROPERTY OWNERS AND PROSPECTIVE BUYERS ARE ADVISED TO CONTACT CITY AND COUNTY PLANNING OFFICES FOR INFORMATION AND DIRECTION PERTAINING TO ISSUES OF LOT CONFORMANCE AND REQUIREMENTS FOR DEVELOPMENT.
- THIS SURVEY REPRESENTS OPINIONS BASED ON FACTS AND EVIDENCE. AS THE EVIDENCE CHANGES OR IF NEW EVIDENCE IS DISCOVERED OR RECOVERED, THEN THE SURVEYOR RESERVES THE RIGHT TO MODIFY OR ALTER HIS OPINIONS PERTAINING TO THIS SURVEY ACCORDING TO THIS NEW EVIDENCE.
- SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. FURTHERMORE, NO ABSTRACT OF TITLE, NOR TITLE COMMITMENT, NOR RESULTS OF TITLE SEARCHES WERE FURNISHED THE SURVEYOR. THERE MAY EXIST OTHER DOCUMENTS OF RECORD THAT WOULD AFFECT THIS PARCEL.
- THIS SURVEY DOES NOT PURPORT TO DETAIL THE LOCATIONS OF ANY OR ALL EASEMENTS OR RIGHTS-OF-WAY OF RECORD AND USE.
- THIS PLAT MAP DOES NOT PURPORT TO SHOW, EITHER IN FACT OR BY CIRCUMSTANCE, ANY OR ALL UTILITY COMPANY PIPES, WIRES, ETC., EITHER IN SERVICE OR ABANDONED, THAT MAY EXIST ON OR NEAR THE SUBJECT PROPERTY. FURTHERMORE, ANY INDICATION AS TO THE LOCATION OF UNDERGROUND UTILITIES THAT MAY BE SHOWN ON THIS PLAT MAP IS BASED STRICTLY ON OBSERVABLE SURFACE EVIDENCE AND/OR VERBAL EXPLANATIONS. ALSO, FOR THIS SURVEY UTILITY MAPS OF RECORD WERE AVAILABLE TO THE SURVEYOR TO HELP DETERMINE THE PROPER LOCATION OF UNDERGROUND UTILITIES. INDEED, ONLY BY EXCAVATION CAN THE EXACT LOCATION OF UNDERGROUND UTILITIES BE DETERMINED. CONTRACTORS, BUILDERS, AND EXCAVATORS ARE ADVISED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OR EXCAVATION BY CONTACTING CORRESPONDING UTILITY COMPANIES (FOR BLUE STAKES OF UTAH CALL 1-800-662-4111).

PROJECT
L20-276

SHEET
1 OF 1

PREPARED FOR
BOB KOWALLIS

PROJECT
HEBER CITY TRIANGLE PARCEL

RECORD OF SURVEY

LOCATED IN THE SOUTHWEST 1/4
OF SECTION 6, TOWNSHIP 4
SOUTH, RANGE 5 EAST, SLB&M

WASATCH COUNTY, UTAH

DRAWN BY:
BRM

REVIEWED BY:
BC

SCALE:
1" = 60'

ISSUE DATE
10-20-20

Summit Engineering Group Inc.

STRUCTURAL • CIVIL • LAND SURVEYING

55 WEST CENTER • P.O. BOX 176
HEBER CITY, UTAH 84032
P: 435-654-9229 • F: 435-654-9231

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DRAWING ALTERATION

IT IS A VIOLATION OF LAW FOR ANY PERSON
UNLESS ACTING UNDER THE DIRECTION OF THE
PROFESSIONAL LAND SURVEYOR TO ALTER ANY ITEM
ON THIS DOCUMENT IN ANY WAY. ANY LICENSEE
WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW
TO AFFIX THEIR SEAL AND THE NOTATION "ALTERED"
BY FOLLOWING BY THEIR SIGNATURE AND SPECIFIC
DESCRIPTION OF THE ALTERATIONS.

APPENDIX B

Turning Movement Counts

Intersection Turning Movement Summary

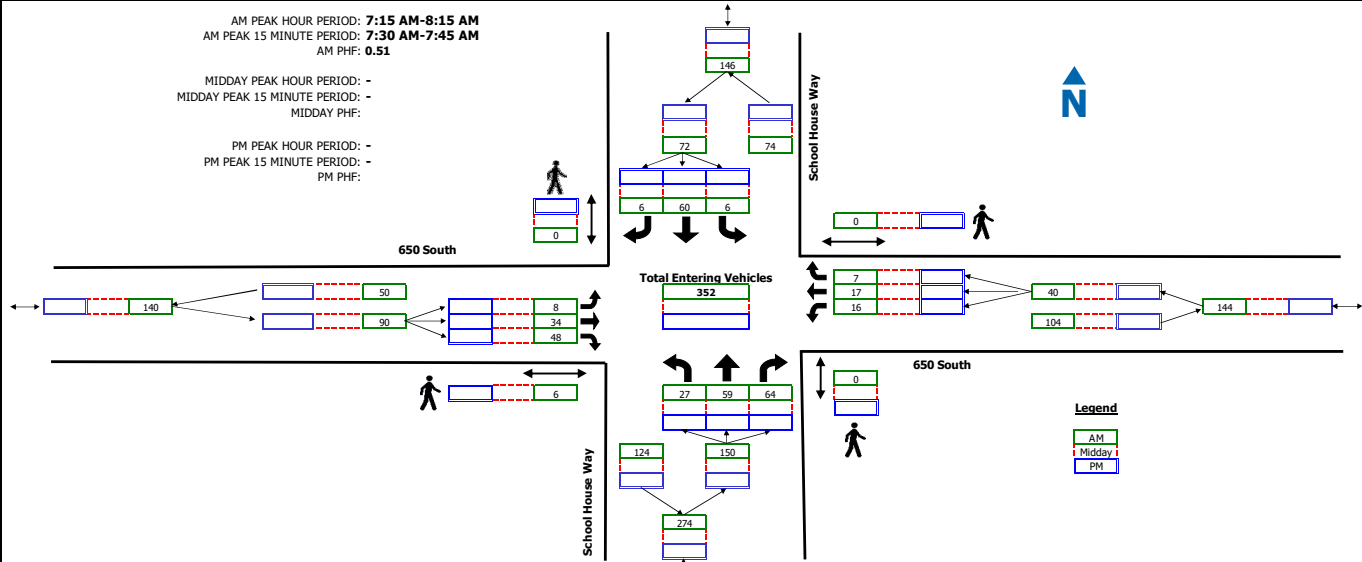
Intersection: School House Way / 650 South
North/South Road: School House Way
East/West Road: 650 South
Jurisdiction: Heber
Project Title: Heber School House Academy TIS
Project No: UT24-2722
Weather: Clear

Date: 3-6-24, Wed
Day of Week Adjustment: 100.0%
Month of Year Adjustment: 100.0%
Adjustment Station #: 0
Growth Rate: 0.0%
Number of Years: 0

AM PEAK HOUR PERIOD: 7:15 AM-8:15 AM
AM PEAK 15 MINUTE PERIOD: 7:30 AM-7:45 AM
AM PHF: 0.51

MIDDAY PEAK HOUR PERIOD: -
MIDDAY PEAK 15 MINUTE PERIOD: -
MIDDAY PHF: -

PM PEAK HOUR PERIOD: -
PM PEAK 15 MINUTE PERIOD: -
PM PHF: -

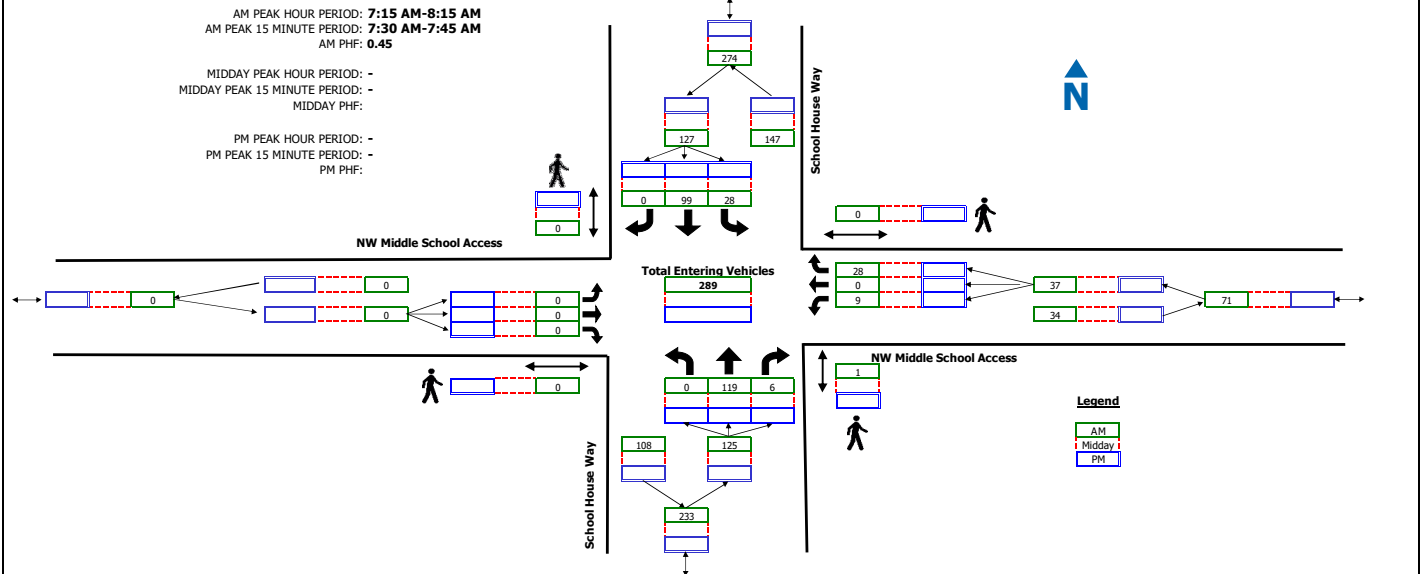


COUNT SUMMARY	School House Way Northbound				School House Way Southbound				650 South Eastbound				650 South Westbound				TOTAL
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
AM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
7:00 - 7:15	0	4	3	0	1	2	0	0	3	8	4	0	2	5	0	0	32
7:15 - 7:30	4	10	7	0	0	22	0	0	0	2	10	0	4	5	2	0	66
7:30 - 7:45	15	25	50	0	4	29	2	0	1	11	30	4	4	2	1	0	174
7:45 - 8:00	8	18	6	0	1	9	2	0	2	14	7	1	4	2	2	0	75
8:00 - 8:15	0	6	1	0	1	0	2	0	5	7	1	1	4	8	2	0	37
8:15 - 8:30	2	9	7	0	10	3	2	0	6	11	3	0	3	7	4	1	67
8:30 - 8:45	4	6	20	1	24	2	0	0	2	19	3	7	4	10	5	1	99
8:45 - 9:00	3	6	4	0	5	7	5	0	4	9	5	1	5	10	10	0	73
MIDDAY PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 - 9:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 - 10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 - 10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 - 11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 - 11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 - 11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 - 11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 - 12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 - 12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:15 - 13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:30 - 13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:45 - 14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:00 - 14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:15 - 14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:30 - 14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:45 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:15 - 15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:30 - 15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:45 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
16:00 - 16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15 - 16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30 - 16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 - 17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15 - 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30 - 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Turning Movement Summary

Intersection: School House Way / NW Middle School Access
North/South Road: School House Way
East/West Road: NW Middle School Access
Jurisdiction: Heber
Project Title: Heber School House Academy TIS
Project No: UT24-2722
Weather: Clear

Date: 3-6-24, Wed
Day of Week Adjustment: 100.0%
Month of Year Adjustment: 100.0%
Adjustment Station #: 0
Growth Rate: 0.0%
Number of Years: 0



COUNT SUMMARY	School House Way Northbound				School House Way Southbound				NW Middle School Access Eastbound				NW Middle School Access Westbound				TOTAL
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
AM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
7:00 - 7:15	0	5	0	0	5	3	0	0	0	0	0	0	1	0	2	0	16
7:15 - 7:30	0	21	0	0	6	28	0	0	0	0	0	0	2	0	1	0	58
7:30 - 7:45	0	70	4	0	20	46	0	0	0	0	0	0	5	0	17	0	162
7:45 - 8:00	0	25	1	1	2	19	0	0	0	0	0	0	2	0	6	0	55
8:00 - 8:15	0	3	1	0	0	6	0	0	0	0	0	0	0	0	4	0	14
8:15 - 8:30	0	18	0	0	0	9	0	0	0	0	0	0	0	0	0	0	27
8:30 - 8:45	0	30	1	2	0	11	0	0	0	0	0	0	0	0	0	0	42
8:45 - 9:00	0	11	1	0	1	15	0	0	0	0	0	0	1	0	0	0	29
MIDDAY PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 - 9:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 - 10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 - 10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 - 11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 - 11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 - 11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 - 11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 - 12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 - 12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:15 - 13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:30 - 13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:45 - 14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:00 - 14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:15 - 14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:30 - 14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:45 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:15 - 15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:30 - 15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:45 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
16:00 - 16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15 - 16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30 - 16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 - 17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15 - 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30 - 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Turning Movement Summary

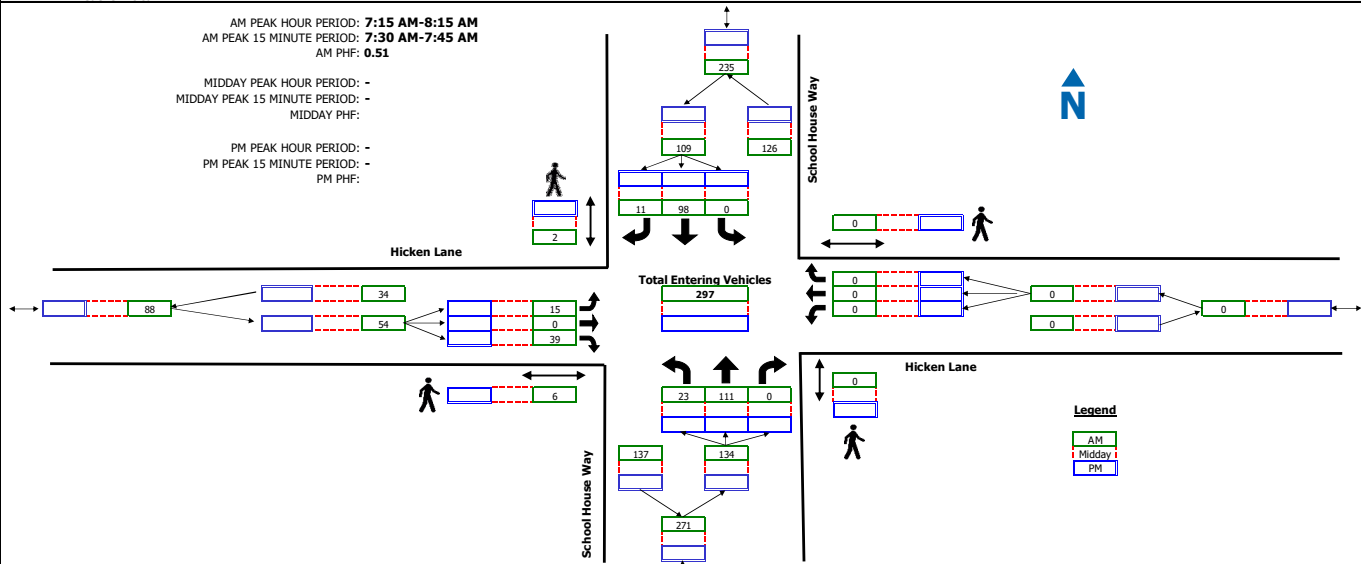
Intersection: School House Way / Hicken Lane
North/South Road: School House Way
East/West Road: Hicken Lane
Jurisdiction: Heber
Project Title: Heber School House Academy TIS
Project No: UT24-2722
Weather: Clear

Date: 3-6-24, Wed
Day of Week Adjustment: 100.0%
Month of Year Adjustment: 100.0%
Adjustment Station #: 0
Growth Rate: 0.0%
Number of Years: 0

AM PEAK HOUR PERIOD: 7:15 AM-8:15 AM
AM PEAK 15 MINUTE PERIOD: 7:30 AM-7:45 AM
AM PHF: 0.51

MIDDAY PEAK HOUR PERIOD: -
MIDDAY PEAK 15 MINUTE PERIOD: -
MIDDAY PHF: -

PM PEAK HOUR PERIOD: -
PM PEAK 15 MINUTE PERIOD: -
PM PHF: -



COUNT SUMMARY	School House Way Northbound				School House Way Southbound				Hicken Lane Eastbound				Hicken Lane Westbound				TOTAL
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
AM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
7:00 - 7:15	0	2	0	0	0	3	0	0	3	0	1	1	0	3	0	0	9
7:15 - 7:30	3	17	0	0	0	25	4	0	4	0	9	1	0	0	0	0	62
7:30 - 7:45	7	71	0	0	0	50	2	0	5	0	12	5	0	0	0	0	147
7:45 - 8:00	5	20	0	0	0	20	2	1	5	0	10	0	0	0	0	0	62
8:00 - 8:15	8	3	0	0	0	3	3	1	1	0	8	0	0	0	0	0	26
8:15 - 8:30	3	11	0	0	0	8	1	0	7	0	5	2	0	0	0	0	35
8:30 - 8:45	5	12	0	0	0	9	2	0	19	0	5	0	0	0	0	0	52
8:45 - 9:00	6	8	0	0	0	10	7	0	4	0	5	0	0	0	0	0	40
MIDDAY PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 - 9:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 - 10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 - 10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 - 11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 - 11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 - 11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 - 11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 - 12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 - 12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:15 - 13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:30 - 13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:45 - 14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:00 - 14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:15 - 14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:30 - 14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:45 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:15 - 15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:30 - 15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:45 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
16:00 - 16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15 - 16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30 - 16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 - 17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15 - 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30 - 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Intersection Turning Movement Summary

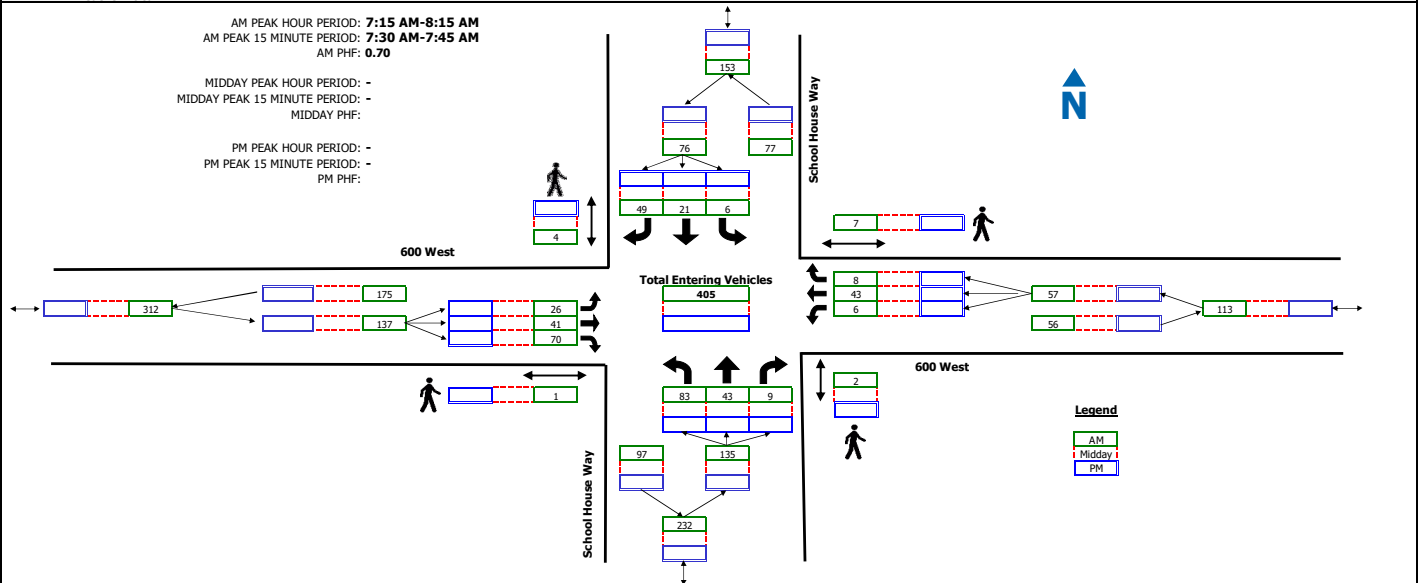
Intersection: School House Way / 600 West
North/South Road: School House Way
East/West Road: 600 West
Jurisdiction: Heber
Project Title: Heber School House Academy TIS
Project No: UT24-2722
Weather: Clear

Date: 3-6-24, Wed
Day of Week Adjustment: 100.0%
Month of Year Adjustment: 100.0%
Adjustment Station #: 0
Growth Rate: 0.0%
Number of Years: 0

AM PEAK HOUR PERIOD: 7:15 AM-8:15 AM
AM PEAK 15 MINUTE PERIOD: 7:30 AM-7:45 AM
AM PHF: 0.70

MIDDAY PEAK HOUR PERIOD: -
MIDDAY PEAK 15 MINUTE PERIOD: -
MIDDAY PHF: -

PM PEAK HOUR PERIOD: -
PM PEAK 15 MINUTE PERIOD: -
PM PHF: -



COUNT SUMMARY	School House Way Northbound				School House Way Southbound				600 West Eastbound				600 West Westbound				TOTAL
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
AM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
7:05 - 7:15	4	5	2	0	0	4	6	3	0	3	3	1	0	1	2	0	31
7:15 - 7:30	25	9	1	1	1	2	18	0	5	13	11	0	1	15	2	2	103
7:30 - 7:45	40	7	0	0	2	8	19	1	3	17	31	1	0	17	0	3	144
7:45 - 8:00	10	13	5	1	2	10	10	0	15	7	18	0	2	5	4	1	101
8:00 - 8:15	8	14	3	0	1	1	2	3	3	4	10	0	3	6	2	1	57
8:15 - 8:30	8	35	2	0	11	10	3	3	6	10	9	0	0	0	6	1	100
8:30 - 8:45	5	21	4	0	12	27	8	0	1	3	7	2	0	3	8	0	99
8:45 - 9:00	6	15	9	0	8	17	9	0	6	4	5	0	3	0	2	0	84
MIDDAY PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 - 9:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 - 10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 10:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 - 10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 - 10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 - 11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 - 11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 - 11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 - 11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 - 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 - 12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 - 12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 - 12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 - 13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:00 - 13:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:15 - 13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:30 - 13:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13:45 - 14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:00 - 14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:15 - 14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:30 - 14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:45 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 - 15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:15 - 15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:30 - 15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:45 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM PERIOD COUNTS																	
Period	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	TOTAL
16:00 - 16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15 - 16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30 - 16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 - 17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15 - 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30 - 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX C

LOS Results

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Existing (2024) Background
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & 650 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	27	25	93	5.7	A
	T	61	61	100	5.8	A
	R	64	69	107	5.2	A
	Subtotal	152	155	102	5.5	A
SB	L	6	6	96	5.4	A
	T	60	62	103	5.8	A
	R	6	6	104	3.4	A
	Subtotal	72	74	103	5.6	A
EB	L	8	9	112	5.7	A
	T	34	32	93	6.1	A
	R	49	50	103	4.0	A
	Subtotal	91	91	100	4.9	A
WB	L	19	18	95	4.7	A
	T	17	18	106	5.5	A
	R	7	6	83	3.3	A
	Subtotal	43	42	98	4.8	A
Total		359	362	101	5.3	A

Intersection: School House Way & Middle School Access
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	T	124	126	101	0.3	A
	R	6	6	96	0.1	A
	Subtotal	130	132	102	0.3	A
SB	L	28	30	106	4.0	A
	T	102	101	99	1.4	A
	Subtotal	130	131	101	2.0	A
WB	L	9	8	91	7.7	A
	R	28	30	106	3.9	A
	Subtotal	37	38	103	4.7	A
Total		298	301	101	1.6	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Existing (2024) Background
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & Hicken Ln
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	23	23	100	3.2	A
	T	156	161	103	1.5	A
	Subtotal	179	184	103	1.7	A
SB	T	101	98	97	0.3	A
	R	11	12	112	0.1	A
	Subtotal	112	110	98	0.3	A
EB	L	15	15	102	5.9	A
	R	39	43	110	3.6	A
	Subtotal	54	58	107	4.2	A
Total		345	352	102	1.7	A

Intersection: 600 West & School House Way/910 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	83	82	99	5.8	A
	T	43	44	102	6.2	A
	R	9	8	91	4.6	A
	Subtotal	135	134	99	5.9	A
SB	L	6	6	104	5.0	A
	T	21	22	104	6.1	A
	R	49	52	106	4.1	A
	Subtotal	76	80	105	4.7	A
EB	L	26	26	99	7.0	A
	T	42	42	101	6.6	A
	R	70	71	101	4.5	A
	Subtotal	138	139	101	5.6	A
WB	L	6	4	67	4.5	A
	T	43	45	104	5.7	A
	R	8	6	77	3.0	A
	Subtotal	57	55	96	5.3	A
Total		406	408	100	5.5	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Existing (2024) Plus Project
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & 650 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	32	29	91	6.4	A
	T	84	84	101	5.4	A
	R	66	64	97	5.2	A
	Subtotal	182	177	97	5.5	A
SB	L	6	6	96	5.6	A
	T	69	68	98	5.8	A
	R	6	7	122	3.7	A
	Subtotal	81	81	100	5.6	A
EB	L	8	6	75	6.7	A
	T	34	33	96	5.9	A
	R	54	57	106	4.1	A
	Subtotal	96	96	100	4.9	A
WB	L	22	24	109	4.9	A
	T	17	16	94	5.5	A
	R	7	8	110	3.2	A
	Subtotal	46	48	104	4.8	A
Total		405	402	99	5.3	A

Intersection: School House Way & South Access/Middle School Access
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	T	143	135	94	0.4	A
	R	6	7	112	0.2	A
	Subtotal	149	142	95	0.4	A
SB	L	28	28	99	2.7	A
	T	102	106	104	0.3	A
	Subtotal	130	134	103	0.8	A
EB	L	16	12	74	6.5	A
	R	15	14	93	2.7	A
	Subtotal	31	26	84	4.5	A
WB	L	9	10	114	8.4	A
	R	28	30	106	5.1	A
	Subtotal	37	40	108	5.9	A
Total		348	342	98	1.5	A

SimTraffic LOS Report

Project: Heber School House Academy TIS

Analysis Period: Existing (2024) Plus Project

Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & Hicken Ln

Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	23	22	96	3.3	A
	T	176	170	97	1.6	A
	Subtotal	199	192	96	1.8	A
SB	T	115	118	103	0.3	A
	R	12	11	94	0.2	A
	Subtotal	127	129	102	0.3	A
EB	L	17	16	94	6.8	A
	R	39	40	103	3.6	A
	Subtotal	56	56	100	4.5	A
Total		382	377	99	1.7	A

Intersection: 600 West & School House Way/910 South

Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	94	91	97	6.2	A
	T	43	44	102	6.0	A
	R	9	9	103	3.9	A
	Subtotal	146	144	99	6.0	A
SB	L	6	5	87	4.6	A
	T	21	21	99	6.1	A
	R	49	46	93	3.8	A
	Subtotal	76	72	95	4.5	A
EB	L	26	26	99	6.8	A
	T	46	48	104	6.6	A
	R	79	82	104	4.4	A
	Subtotal	151	156	103	5.5	A
WB	L	6	6	100	5.5	A
	T	48	48	99	5.7	A
	R	8	8	103	3.4	A
	Subtotal	62	62	100	5.4	A
Total		436	434	100	5.5	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Existing (2024) Plus Project
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & North Access
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	18	14	78	2.5	A
	T	181	173	96	0.4	A
	Subtotal	199	187	94	0.6	A
SB	T	128	134	104	1.3	A
	R	17	15	90	1.1	A
	Subtotal	145	149	103	1.3	A
Total		344	336	98	0.9	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Future (2029) Background
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & 650 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	30	28	93	6.9	A
	T	66	62	93	6.6	A
	R	65	65	100	5.9	A
	Subtotal	161	155	96	6.4	A
SB	L	10	11	107	5.2	A
	T	70	74	106	6.3	A
	R	10	10	100	3.4	A
	Subtotal	90	95	106	5.9	A
EB	L	10	11	110	5.9	A
	T	55	51	93	6.2	A
	R	50	53	106	4.5	A
	Subtotal	115	115	100	5.4	A
WB	L	20	20	100	4.8	A
	T	20	22	110	5.6	A
	R	10	11	107	3.3	A
	Subtotal	50	53	106	4.8	A
Total		417	418	100	5.8	A

Intersection: School House Way & Middle School Access
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	T	132	127	96	0.5	A
	R	10	12	117	0.2	A
	Subtotal	142	139	98	0.5	A
SB	L	30	29	97	4.5	A
	T	112	120	107	1.6	A
	Subtotal	142	149	105	2.2	A
WB	L	10	10	100	9.2	A
	R	30	29	96	4.7	A
	Subtotal	40	39	98	5.9	A
Total		325	327	101	1.9	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Future (2029) Background
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & Hicken Ln
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	25	26	103	3.8	A
	T	165	166	101	1.7	A
	Subtotal	190	192	101	2.0	A
SB	T	108	110	102	0.3	A
	R	15	19	125	0.2	A
	Subtotal	123	129	105	0.3	A
EB	L	20	18	89	6.3	A
	R	45	47	105	3.8	A
	Subtotal	65	65	100	4.5	A
Total		378	386	102	1.8	A

Intersection: 600 West & School House Way/910 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	90	94	105	6.5	A
	T	45	48	106	6.8	A
	R	10	11	110	5.0	A
	Subtotal	145	153	106	6.5	A
SB	L	10	11	110	5.1	A
	T	25	28	111	6.7	A
	R	50	47	94	4.2	A
	Subtotal	85	86	101	5.1	A
EB	L	30	28	93	7.6	A
	T	47	50	106	6.7	A
	R	75	77	103	4.9	A
	Subtotal	152	155	102	6.0	A
WB	L	10	12	117	5.6	A
	T	45	44	98	6.2	A
	R	10	10	98	4.0	A
	Subtotal	65	66	102	5.8	A
Total		448	460	103	6.0	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Future (2029) Plus Project
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & 650 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	41	43	106	8.1	A
	T	102	105	103	6.8	A
	R	69	70	101	7.4	A
	Subtotal	212	218	103	7.2	A
SB	L	10	11	107	6.2	A
	T	90	92	103	6.5	A
	R	10	11	110	4.0	A
	Subtotal	110	114	104	6.2	A
EB	L	10	8	80	6.7	A
	T	55	54	99	7.0	A
	R	61	62	102	5.2	A
	Subtotal	126	124	98	6.1	A
WB	L	27	26	96	5.0	A
	T	20	20	100	5.9	A
	R	10	11	107	3.2	A
	Subtotal	57	57	100	5.0	A
Total		504	513	102	6.5	A

Intersection: School House Way & South Access/Middle School Access
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	T	173	176	102	0.6	A
	R	10	11	107	0.3	A
	Subtotal	183	187	102	0.6	A
SB	L	30	30	101	3.8	A
	T	112	113	100	0.7	A
	Subtotal	142	143	101	1.4	A
EB	L	36	38	106	12.3	B
	R	34	36	105	5.3	A
	Subtotal	70	74	106	8.9	A
WB	L	10	9	90	12.1	B
	R	30	29	96	7.4	A
	Subtotal	40	38	95	8.5	A
Total		436	442	101	2.9	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Future (2029) Plus Project
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & Hicken Ln
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	25	21	83	3.8	A
	T	208	216	104	1.9	A
	Subtotal	233	237	102	2.1	A
SB	T	140	141	100	0.4	A
	R	17	19	113	0.2	A
	Subtotal	157	160	102	0.4	A
EB	L	24	24	101	7.0	A
	R	45	41	92	4.1	A
	Subtotal	69	65	94	5.2	A
Total		459	462	101	1.9	A

Intersection: 600 West & School House Way/910 South
Type: All-way Stop Controlled

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	115	120	104	7.3	A
	T	45	45	99	7.3	A
	R	10	9	90	7.3	A
	Subtotal	170	174	102	7.3	A
SB	L	10	10	100	5.2	A
	T	25	25	99	6.8	A
	R	50	53	105	4.4	A
	Subtotal	85	88	104	5.2	A
EB	L	30	30	99	7.9	A
	T	58	54	94	7.4	A
	R	96	96	100	5.4	A
	Subtotal	184	180	98	6.4	A
WB	L	10	10	98	6.1	A
	T	56	53	95	6.3	A
	R	10	12	117	4.8	A
	Subtotal	76	75	99	6.0	A
Total		516	517	100	6.5	A

SimTraffic LOS Report

Project: Heber School House Academy TIS
Analysis Period: Future (2029) Plus Project
Time Period: Morning Peak Hour

Project #: UT24-2722

Intersection: School House Way & North Access
Type: Unsignalized

Approach	Movement	Demand Volume	Volume Served		Delay/Veh (sec)	
			Avg	%	Avg	LOS
NB	L	40	40	99	3.0	A
	T	213	218	102	0.8	A
	Subtotal	253	258	102	1.1	A
SB	T	140	142	101	1.6	A
	R	38	39	103	1.3	A
	Subtotal	178	181	102	1.5	A
Total		432	439	102	1.3	A

APPENDIX D

95th Percentile Queue Length Reports

Intersection	NB		SB			EB		WB	
	LT	LTR	LT	LTR	TR	LR	LTR	LR	LTR
01: School House Way & 650 South		75		75			75		50
02: School House Way & Middle School Access			50					50	
03: School House Way & Hicken Ln						75			
04: 600 West & School House Way/910 South		75		75			75		75

SimTraffic Queueing Report

Project: Heber School House Academy TIS

Analysis: Existing (2024) Plus Project

Time Period: Morning Peak Hour

95th Percentile Queue Length (feet) - Rounded Up to Nearest Multiple of 25 ft



Project #: UT24-2722

Intersection	NB			SB		EB		W B
	LT	LTR	TR	LT	LTR	LR	LTR	LTR
01: School House Way & 650 South			100			75		75
02: School House Way & South Access/Middle School Access				50			50	75
03: School House Way & Hicken Ln	50					75		
04: 600 West & School House Way/910 South		75			75		75	75
05: School House Way & North Access								

SimTraffic Queueing Report

Project: Heber School House Academy TIS

Analysis: Future (2029) Background

Time Period: Morning Peak Hour

95th Percentile Queue Length (feet) - Rounded Up to Nearest Multiple of 25 ft

HALES  **ENGINEERING**
innovative transportation solutions

Project #: UT24-2722

Intersection	NB		SB			EB		WB	
	LT	LTR	LT	LTR	TR	LR	LTR	LR	LTR
01: School House Way & 650 South		100		75			75		75
02: School House Way & Middle School Access			50					75	
03: School House Way & Hicken Ln	50					75			
04: 600 West & School House Way/910 South		100		75			100		75

SimTraffic Queueing Report

Project: Heber School House Academy TIS

Analysis: Future (2029) Plus Project

Time Period: Morning Peak Hour

95th Percentile Queue Length (feet) - Rounded Up to Nearest Multiple of 25 ft

HALES  **ENGINEERING**
innovative transportation solutions

Project #: UT24-2722

Intersection	NB			SB			EB		WB
	LT	LTR	TR	LT	LTR	TR	LR	LTR	LTR
01: School House Way & 650 South		125			75			75	75
02: School House Way & South Access/Middle School Access				50				100	75
03: School House Way & Hicken Ln	50						75		
04: 600 West & School House Way/910 South		100			75			100	75
05: School House Way & North Access	75								