

Lee D. Leighton

From: Lee D. Leighton
Sent: Thursday, March 31, 2022 3:52 PM
To: Smith,Darin L (BPA) - TERR-CHEMAWA
Cc: Scott Moore; Breezy Rinehart-Young; Greg Mino
Subject: RE: Introduction: Delta Logistics Wilsonville Annex/ZC

Hi Darin. Thank you for your prompt research and the map you provided below.

No work is proposed outside Delta Logistics's fee ownership, which is to say the fee-owned BPA corridor to its west will not be affected.

We will coordinate with PGE regarding improvements and activities within the PGE easement area.

Thank you,

~Lee

Lee Leighton, AICP | he/him/his
Land Use Planning
D 971.346.3727 E lleighton@mcknze.com

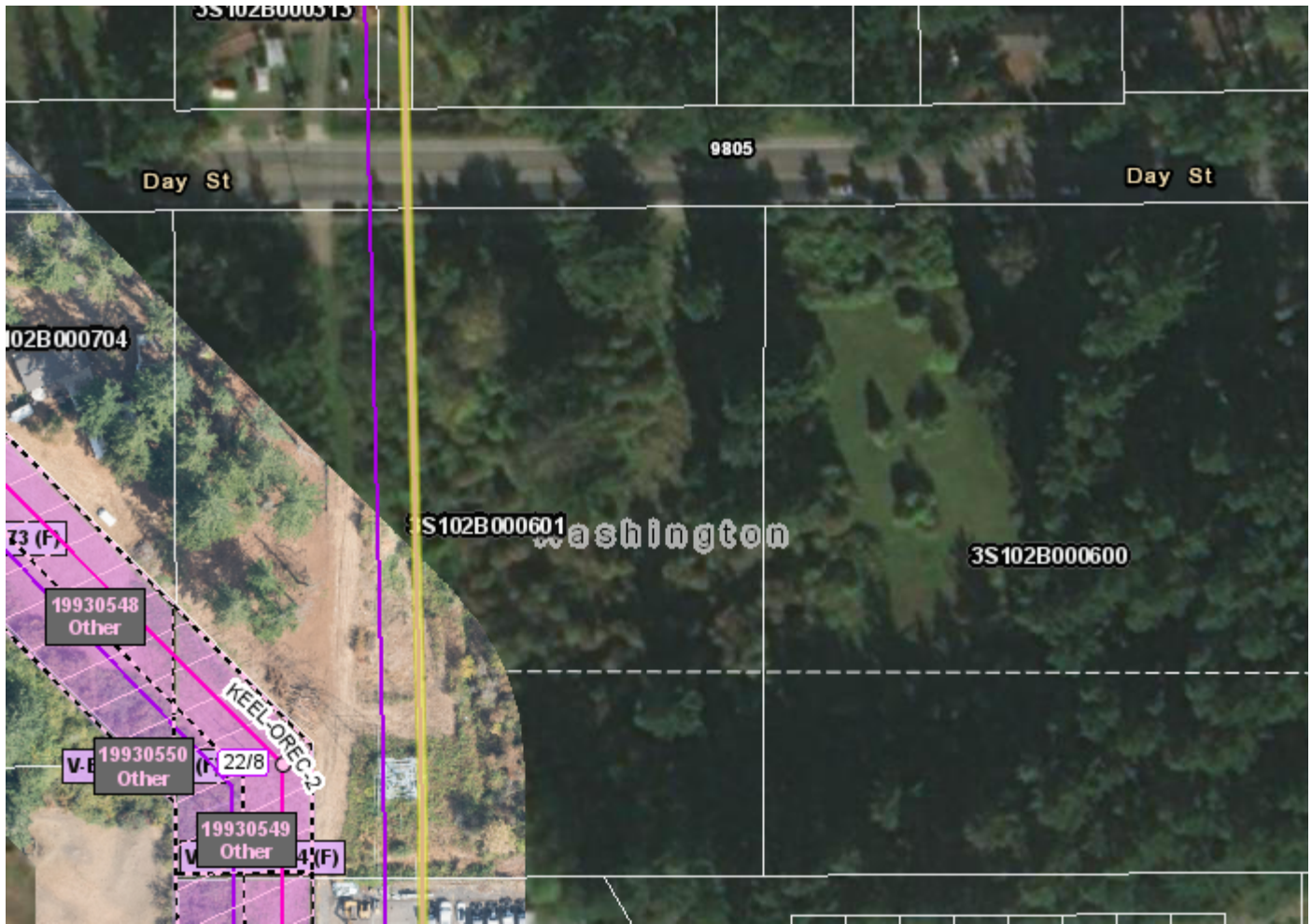
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From: Smith,Darin L (BPA) - TERR-CHEMAWA <dxsmith@bpa.gov>
Sent: Thursday, March 31, 2022 1:37 PM
To: Lee D. Leighton <LLeighton@mcknze.com>
Subject: RE: Introduction: Delta Logistics Wilsonville Annex/ZC

The corridor is fee owned, BPA owns this corner as you see in light purple, the lines going North and South are PGE and you will need to coordinate with them. If you are applying to use any of our fee owned right of way that may take a year or so due to environmental etc. If you can stay out of our fee owned you do not need to submit application





From: Lee D. Leighton <LLeighton@mcknze.com>
Sent: Thursday, March 31, 2022 12:51 PM
To: Smith,Darin L (BPA) - TERR-CHEMAWA <dxsmith@bpa.gov>
Subject: [EXTERNAL] RE: Introduction: Delta Logistics Wilsonville Annex/ZC

Hi Darrin, please reply with forms and instructions so we can get our dialogue started, thanks!

~Lee

Lee Leighton, AICP | he/him/his
Land Use Planning
D 971.346.3727 E lleighton@mcknze.com

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From: Lee D. Leighton
Sent: Thursday, March 31, 2022 9:47 AM
To: Darin Smith <dxsmith@bpa.gov>
Subject: Introduction: Delta Logistics Wilsonville Annex/ZC

Hi Darin, this concerns property at 9710 SW Day Road (3S1 02B 00600) and the parcel to the west of it (3S1 02B 00601).

Please provide form(s) and instructions to work with BPA on the plan.

Thank you!

~Lee

Lee Leighton, AICP | he/him/his
Land Use Planning
D 971.346.3727 E lleighton@mcknze.com

MACKENZIE.

ARCHITECTURE ■ INTERIORS ■ STRUCTURAL, CIVIL, AND TRAFFIC ENGINEERING
LAND USE AND TRANSPORTATION PLANNING ■ LANDSCAPE ARCHITECTURE

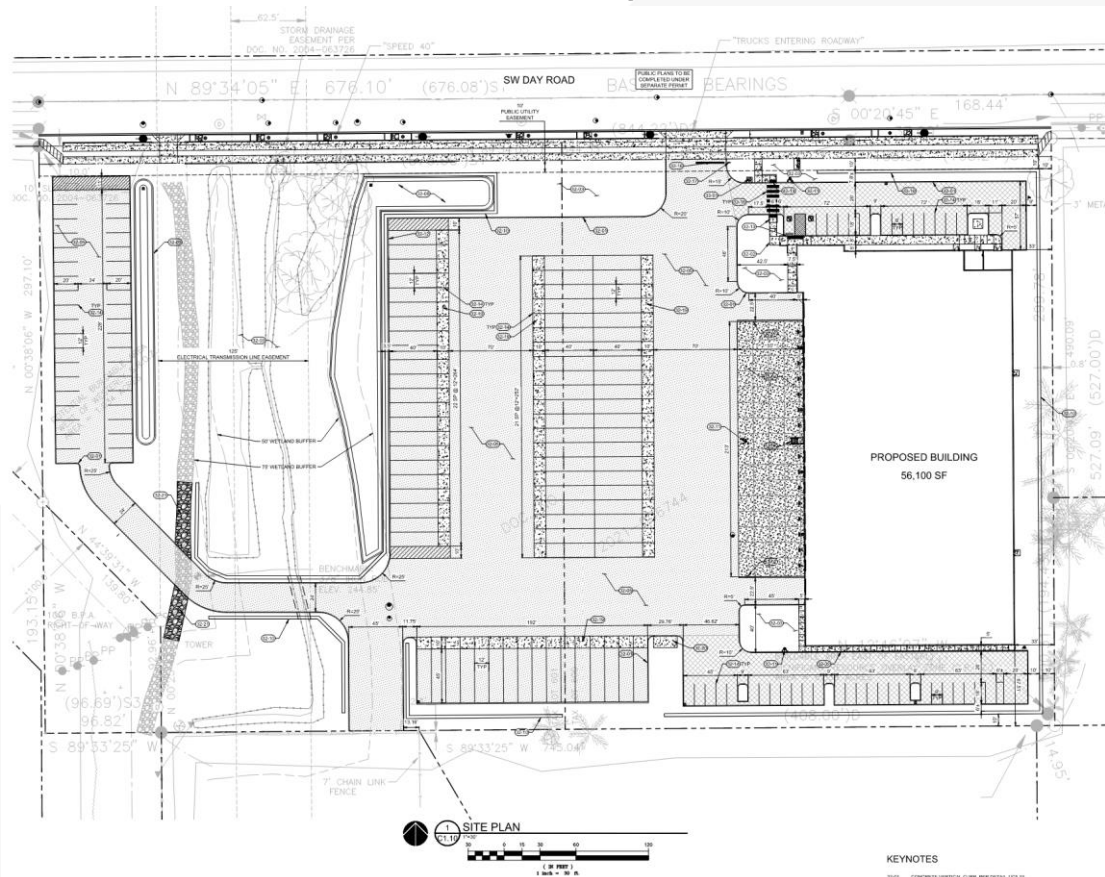
<https://mackenzie.inc> | [Portland, OR](#) | [Vancouver, WA](#) | [Seattle, WA](#)
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Delta Logistics

Access on SW Day Road

Proposed Access on SW Day Road

- Proposed access approximately 1,000 feet west of Boones Ferry Road.

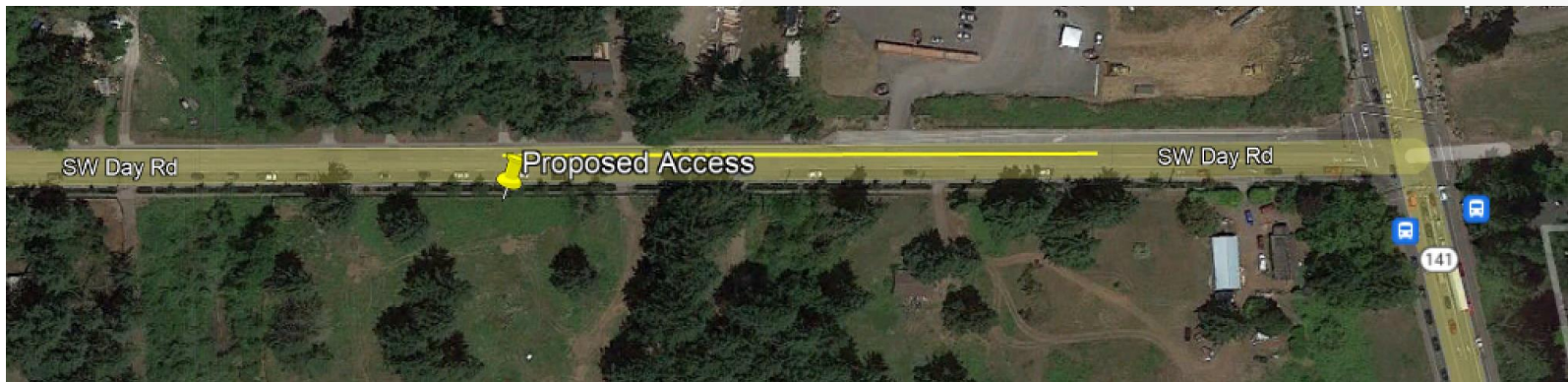


KEYNOTES

3041 CONCRETE VERTICAL CURB PER DETAIL VCB-10

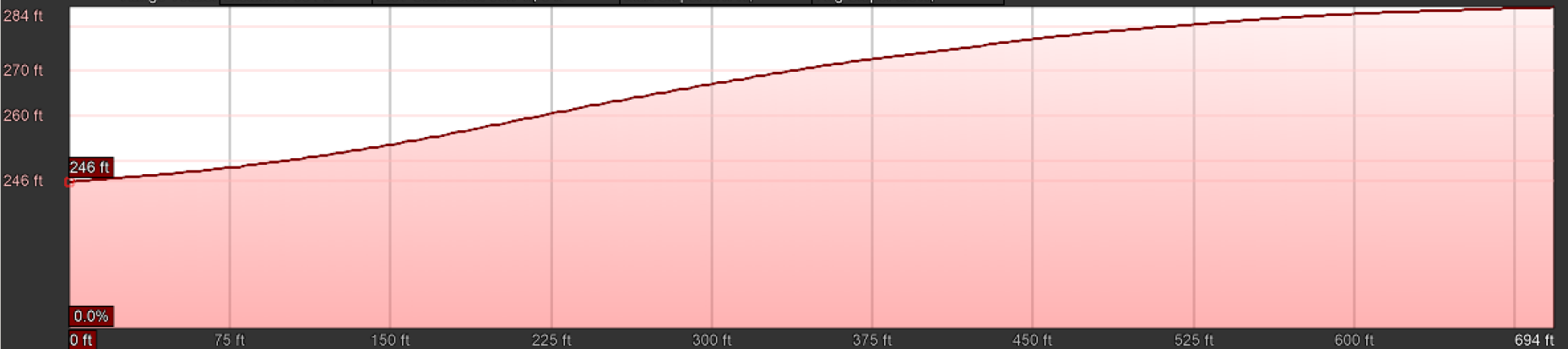
Grade

- Approximately 5% grade to the east



Graph: Min, Avg, Max Elevation: 246, 268, 284 ft

Range Totals: Distance: 694 ft Elev Gain/Loss: 38.7 ft, 0 ft Max Slope: 17.7%, - Avg Slope: 5.6%, -



Sight Distance Requirements/Recommendations

- Grade adjustments made for SW Day Road, per AASHTO recommendations for trucks.
- Sight distance requirements/recommendations greater to east due to grade.

| SIGHT DISTANCE RECOMMENDATIONS AND REQUIREMENTS TO THE EAST ON SW DAY ROAD | | | | | |
|--|--------------|-------|-------------------|------------------------|---------------------|
| Driveway Location | Design Speed | Grade | Design Vehicle | Recommended ISD (feet) | Required SSD (feet) |
| Proposed Driveway | 35 mph | 5% | Passenger | 465 | 270 |
| | | | Combination Truck | 680 | |
| City's Recommended Shared Driveway | | 3% | Passenger | 445 | 260 |
| | | | Combination Truck | 660 | |
| Alternative Access for Adjacent Property | | 0% | Passenger | 415 | 250 |
| | | | Combination Truck | 630 | |
| Alternative Shared Access for Adjacent Properties | | 0% | Passenger | 415 | 250 |
| | | | Combination Truck | 630 | |

Field Verification

- Sight distance for passenger cars met.
- Adequate stopping sight distance available.

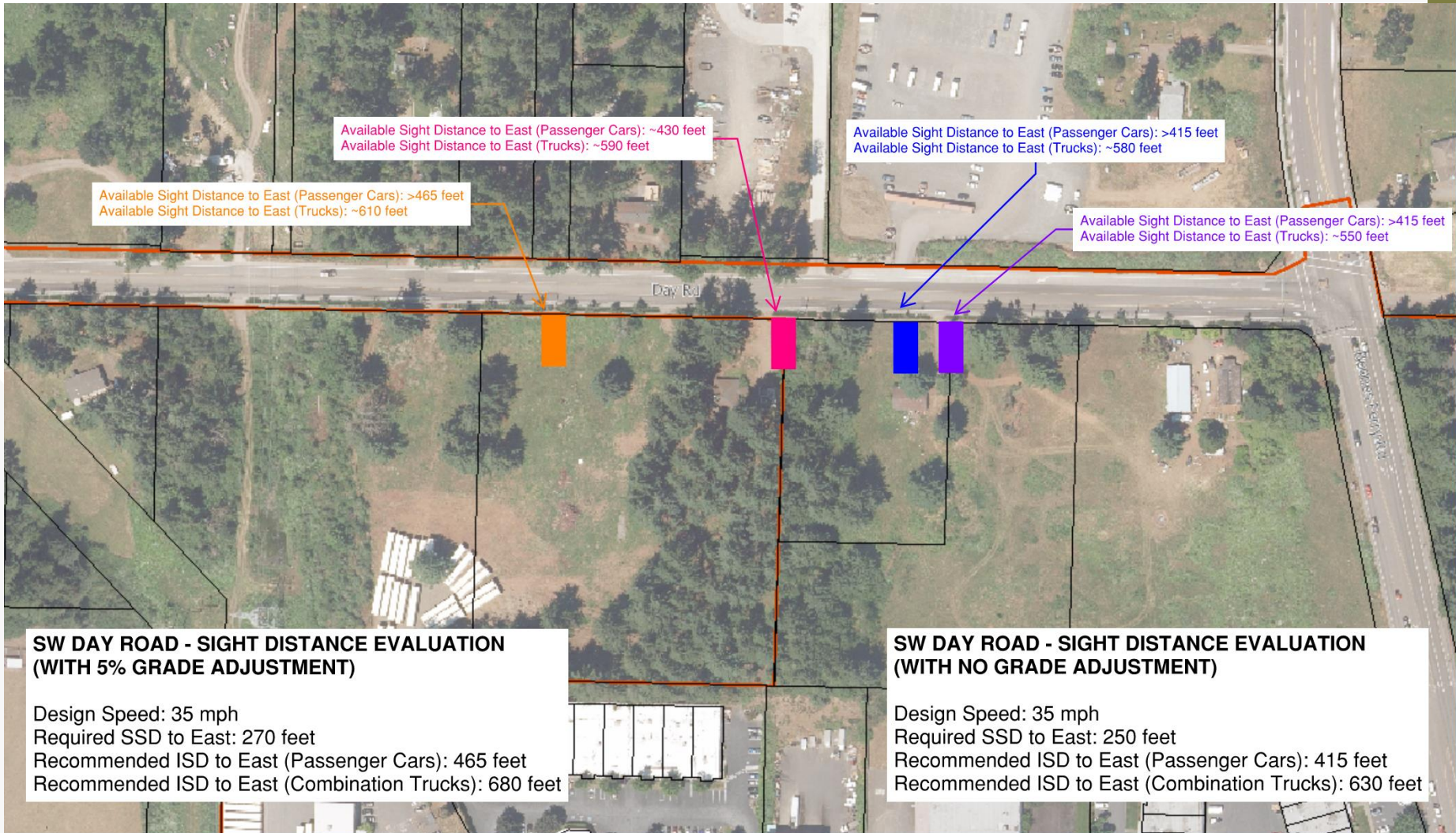


Sight distance to west on SW Day Road

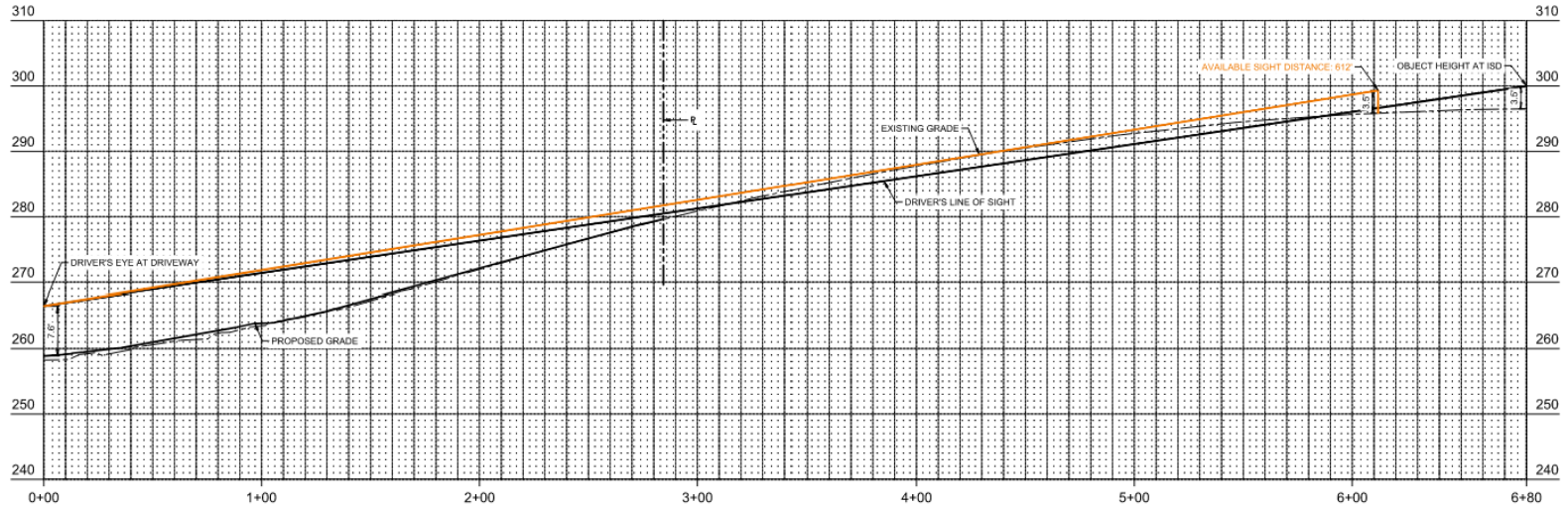


Sight distance to east on SW Day Road

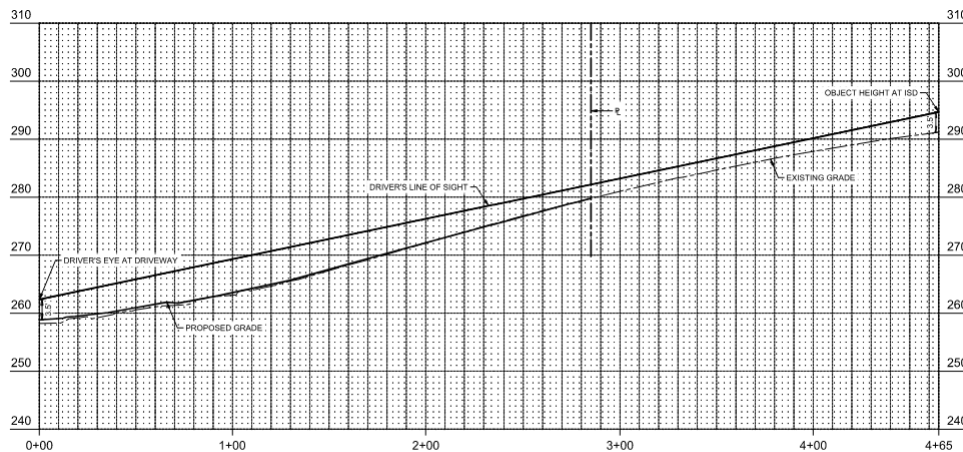
Alternative Driveway Review



Proposed Driveway Location



2 ISD PROFILE: COMBINATION TRUCK - EAST
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=10'

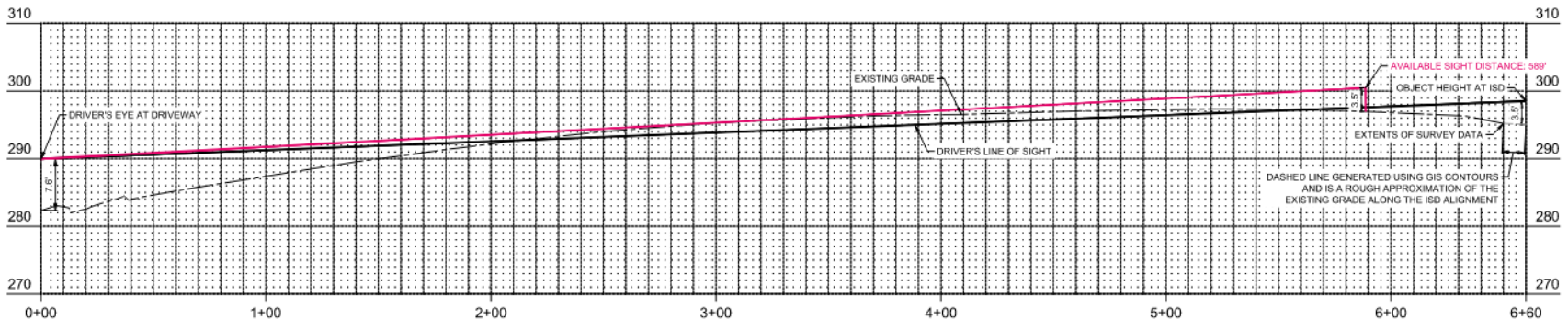


4 ISD PROFILE: PASSENGER CAR - EAST
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=10'

Available sight distance to east (trucks): ~610 feet

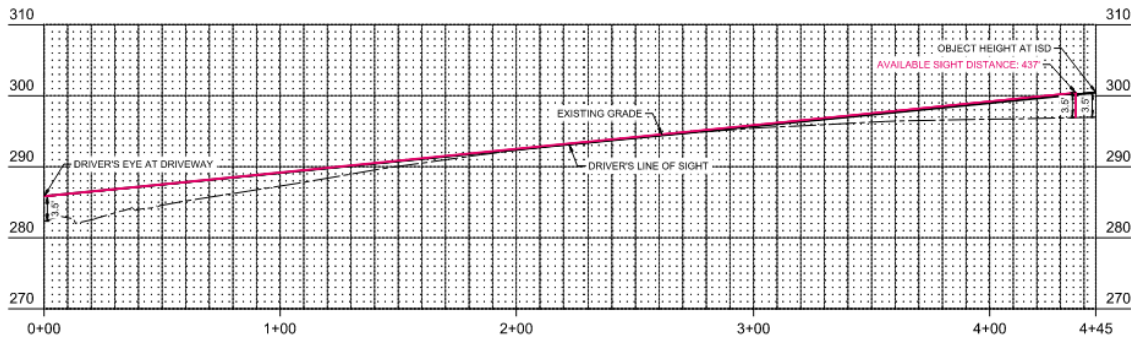
More than 465' available sight distance to east for passenger cars.

City's Recommended Shared Driveway Location



2 ISD PROFILE: COMBINATION TRUCK - EAST
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=10' 1:1

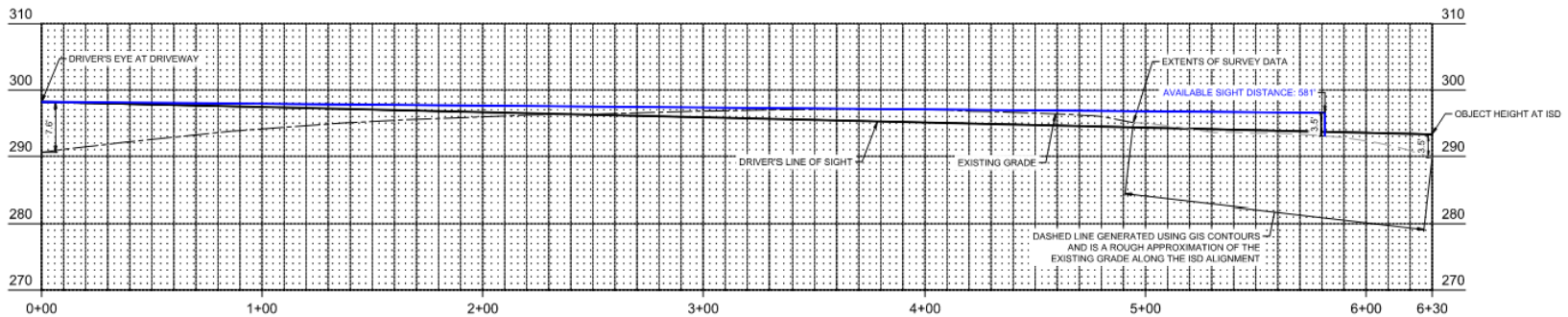
Available sight distance to east (trucks): ~590 feet



4 ISD PROFILE: PASSENGER CAR - EAST
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=10' 1:1

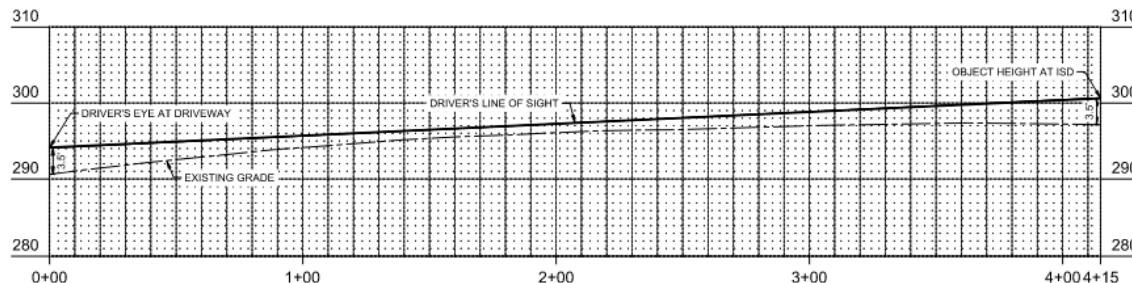
Available sight distance to east (cars): ~440 feet

Alternative Access Location for Adjacent Property



2 ISD PROFILE: COMBINATION TRUCK - EAST
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=10' 1:1

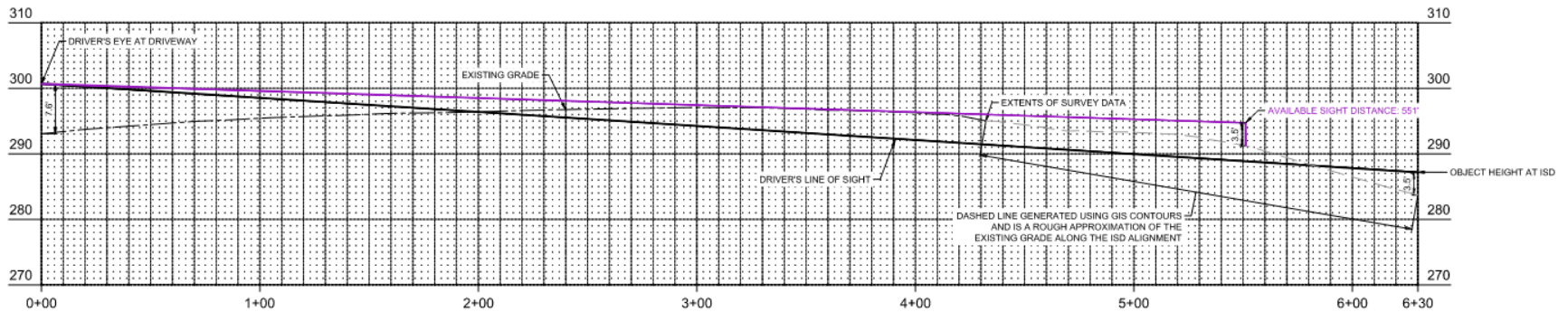
Available sight distance to east (trucks): ~580 feet



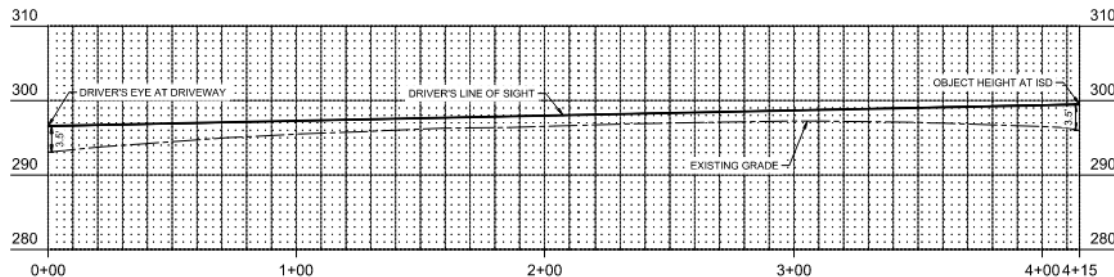
4 ISD PROFILE: PASSENGER CAR - EAST
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=10' 1:1

Available sight distance to east (cars): ~480 feet

Alternative Shared Access Location for Adjacent Properties



Available sight distance to east (trucks): ~550 feet



Available sight distance to east (cars): ~460 feet

Conclusions

- Proposed Delta Logistics driveway and Alternative Access for Adjacent Property meet recommended ISD to the east (based on design speed of 35 mph).
- All locations meet SSD (based on design speed of 35 mph).

| | Proposed Driveway | City's Recommended Shared Driveway | Alternative Access for Adjacent Property | Alternative Shared Access for Adjacent Properties |
|---|--|--|--|--|
| Recommended ISD to East (Passenger Cars/Trucks) | 465'/680' | 445'/660' | 415'/630' | 415'/630' |
| Available Sight Distance to East (Passenger Cars/Trucks) | >465'/~610' | ~430'/~590' | >415'/~580' | >415'/~550' |
| ISD Deficiency | Met/~70' | ~15'/~70' | Met/~50' | Met/~80' |
| Required SSD to East | 270' | 260' | 250' | 250' |
| Sight Distance Met? | SSD: Met ISD (PC): Met ISD (Trucks): Not Met | SSD: Met ISD (PC): Not Met ISD (Trucks): Not Met | SSD: Met ISD (PC): Met ISD (Trucks): Not Met | SSD: Met ISD (PC): Met ISD (Trucks): Not Met |

Recommendations

- Provide access to Delta Logistics site from proposed location.
- Provide future access to adjacent lot from alternative location.
 - Location opposite existing driveway to north offers best sight lines.
 - Location closest to Boones Ferry offers opportunity for shared access.

Lee D. Leighton

From: Janet T. Jones
Sent: Thursday, June 23, 2022 10:45 AM
To: Greg Mino; Lee D. Leighton; Breezy Rinehart-Young
Subject: RE: Delta Logistics Annex Day Road Access Discussion
Attachments: 73c4e23b-f087-4209-aa62-7bcb83883175.png

Greg,

You should be able to post the proposed signs below the stop sign. No need to include a whole new post and drivers will have full visibility to this if included with the stop sign. Based on this guidance from the MUTCD we should be clear to group these signs.

Guidance:

04 *Signs should be located on the right-hand side of the roadway where they are easily recognized and understood by road users. Signs supplementary to signs in the normal locations, except as otherwise provided in this Manual.*

05 *Signs should be individually installed on separate posts or mountings except where:*

- A. *One sign supplements another;*
- B. *Route or directional signs are grouped to clarify information to motorists;*
- C. *Regulatory signs that do not conflict with each other are grouped, such as turn prohibition signs posted with one way signs or a p*
- D. *Street name signs are posted with a stop or yield sign.*

Here's an example where you would replace the prohibition time periods with the "TRUCK" plaque.



Janet Jones, PE | she/her/hers
Associate | Transportation Engineering
D 971.346.3741 E jjones@mcknze.com

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From: Greg Mino <GMino@mcknze.com>
Sent: Tuesday, June 21, 2022 7:01 PM
To: Janet T. Jones <JTJ@mcknze.com>; Lee D. Leighton <LLeighton@mcknze.com>; Breezy Rinehart-Young

<BRinehart@mcknze.com>

Subject: FW: Delta Logistics Annex Day Road Access Discussion

Hi Janet – nice work, this is a big win! I would love some traffic engineering advice on where exactly these signs should be placed. More specifically to understand whether we capture them on the onsite or offsite plans. Would you please?

Thanks!

Greg Mino, PE
Senior Associate | Civil Engineer
D 971.346.3702 E gmino@mcknze.com

MACKENZIE.

From: Pepper, Amy <apepper@ci.wilsonville.or.us>

Sent: Tuesday, June 21, 2022 3:58 PM

To: Janet T. Jones <JTJ@mcknze.com>

Cc: Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>

Subject: RE: Delta Logistics Annex Day Road Access Discussion

Janet ~

Sorry for the delayed response on this. The City would be accepting of Option 2 – Signage with the condition that in the future the City may modify the access as needed to ensure the long-term safety along the corridor (I'll be working with our legal department on exact language).

Please let me know if you have any questions about this.

Amy

From: Janet T. Jones <JTJ@mcknze.com>

Sent: Tuesday, June 7, 2022 8:14 AM

To: Pepper, Amy <apepper@ci.wilsonville.or.us>

Cc: Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>

Subject: RE: Delta Logistics Annex Day Road Access Discussion

[This email originated outside of the City of Wilsonville]

Amy,

We understand that the City has no ability to enforce the use of Day Road by Delta Logistics at peak times and we understand the need to prohibit left turns onto SW Day Road to maintain safety, consistent with our review of limited sight distance availability for trucks to the east from the proposed site access location.

We have reviewed two options to limit left turns for trucks at this location: 1) construction of a median within the proposed driveway to limit left turns out while allowing all other movements; or 2) signage prohibiting left turns for trucks onto SW Day Road from the site.

Option 1 – Driveway Median

Our review shows the median option has a significant impact on the more vulnerable pedestrian and bicyclist population. Truck turn simulations for a WB-67 design vehicle show a much wider driveway apron would be required with a driveway median, increasing the conflict area between vehicles and pedestrians/bicyclists. This design would require a 70' radius for exiting trucks resulting in an approximately 143' wide driveway apron while providing only a 3-foot refuge in the median for pedestrians in the future. This is subpar to the preferred 8-foot refuge that is recommended by the FHWA and leaves approximately 100' of non-refuge area for pedestrians. Providing the additional 5 feet recommended in the median would result in an approximately 148' wide driveway apron with about 100' of non-refuge area.

Not only would this design require a very wide driveway apron that has adverse safety implications on pedestrians and bicyclists, but the median geometry may not be adequate in physically restricting left turns onto SW Day Road. A turn-restricting median for this industrial driveway is not appropriate and may compromise the safety of pedestrians and bicyclists.

Option 2 – No Left Turns Signage

Our sight distance review concluded there was limited sight distance to the east for combination trucks. Adequate sight distance is expected for passenger vehicles to the east. Therefore, a left-turn restriction onto SW Day Road should be limited to trucks only. Signage to indicate left turns are prohibited for trucks onto SW Day Road would be an alternative to Option 1 which would not require such a wide driveway apron, and therefore would not have an adverse impact on the safety of pedestrians and bicyclists. Compliance with this signage would likely be high for this particular site because there is a single user and alternative access is available to Commerce Circle. Delta Logistics has confirmed there will be few trips, if any, that will travel to and from the west on SW Day Road.

This design option has no adverse impact on pedestrians and bicyclists, and does not unnecessarily limit left turns for passenger vehicles. Prohibiting left turns for trucks can be achieved by using MUTCD sign R3-2 in conjunction with MUTCD placard M4-4.



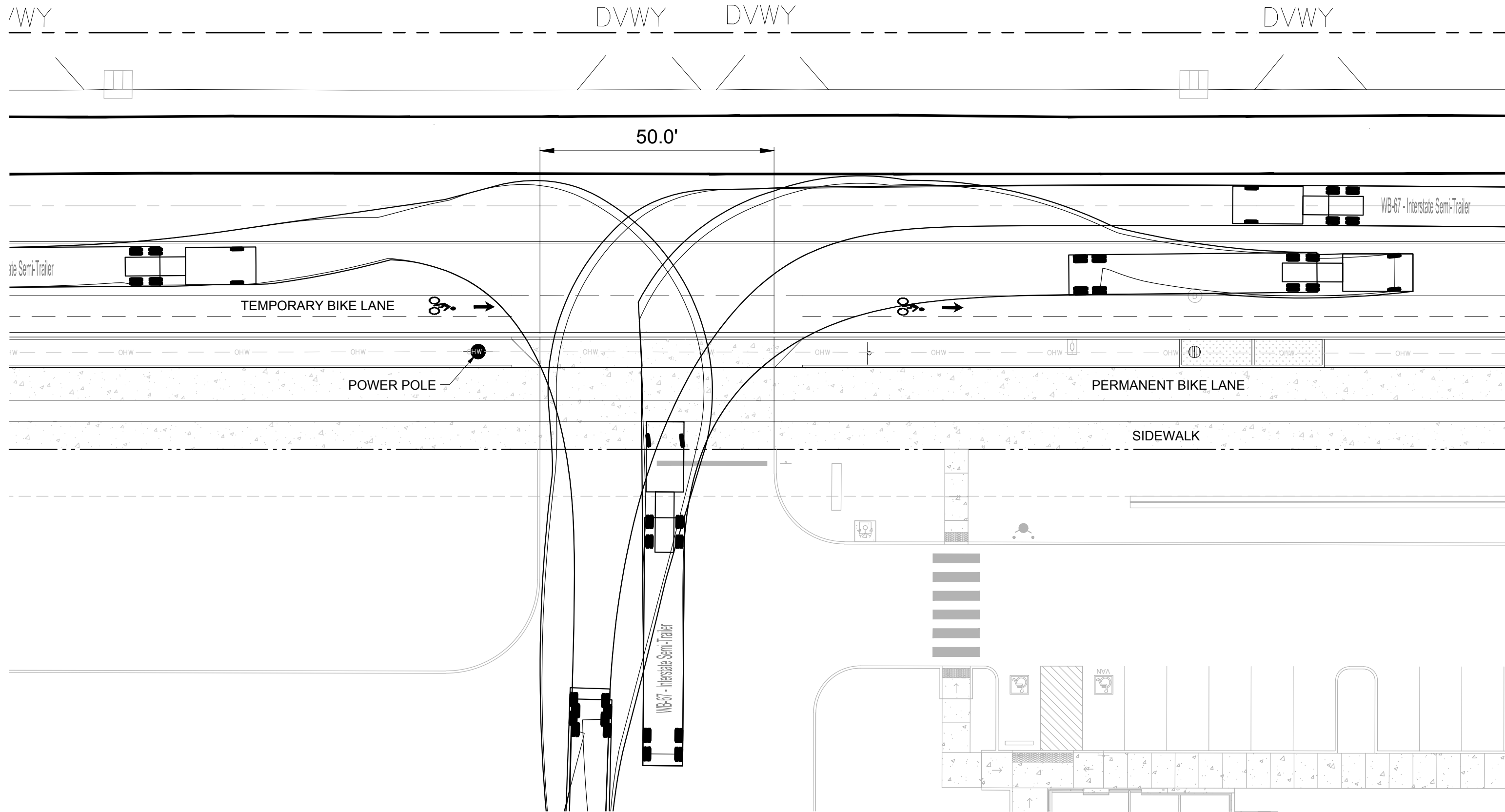
If you agree with our recommendation to proceed with Option 2 to limit left turns onto SW Day Road for trucks we will revise our drawings to include the recommended signage.

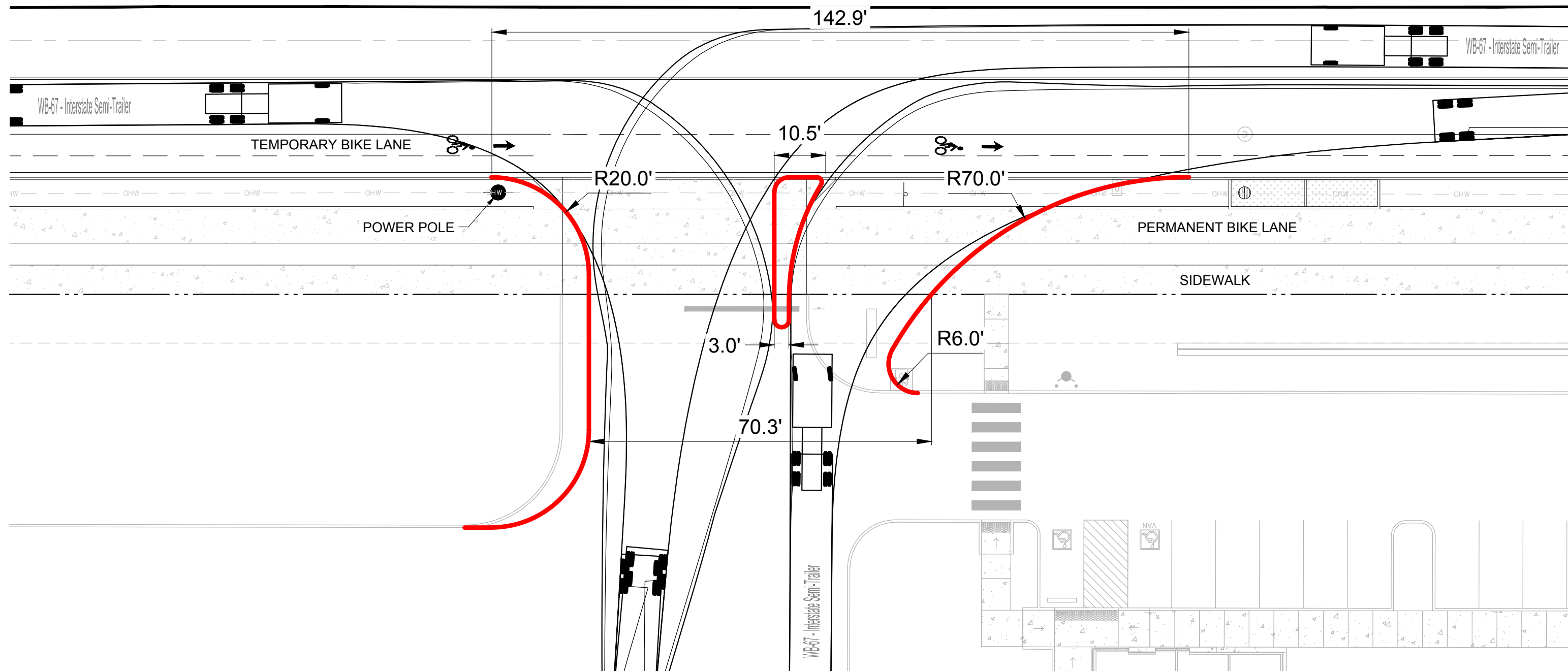
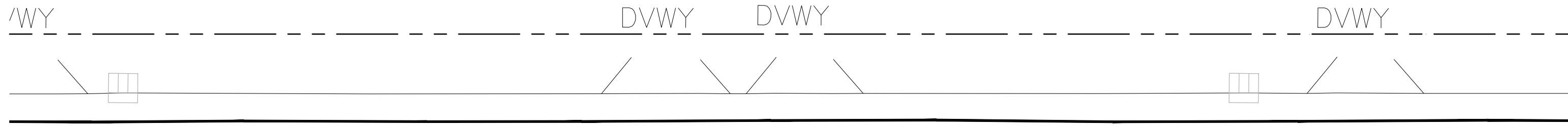
Thank you,

Janet Jones, PE | she/her/hers
Associate | Transportation Engineering
D 971.346.3741 E jjones@mcknze.com

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From: Pepper, Amy <apepper@ci.wilsonville.or.us>
Sent: Monday, February 14, 2022 3:30 PM
To: Janet T. Jones <JTJ@mcknze.com>; Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>
Subject: RE: Delta Logistics Annex Day Road Access Discussion

Janet ~

Please see the attached final TIA for Delta Logistics.

If you have any questions, please let me know.

Amy

From: Pepper, Amy
Sent: Thursday, February 10, 2022 7:43 AM
To: 'Janet T. Jones' <JTJ@mcknze.com>; Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>
Cc: Palmer, Matt <palmer@ci.wilsonville.or.us>; Jenna Bogert <jenna.bogert@dksassociates.com>; Scott Mansur <smm@dksassociates.com>
Subject: RE: Delta Logistics Annex Day Road Access Discussion

Janet ~

DKS is finalizing the traffic study with the recommendation to approve the proposed driveway location, recognizing that it is not the most ideal, but the best option at this time.

I'll forward you the final study when it is complete.

Amy

From: Janet T. Jones <JTJ@mcknze.com>
Sent: Wednesday, February 9, 2022 7:29 PM
To: Pepper, Amy <apepper@ci.wilsonville.or.us>; Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>
Cc: Palmer, Matt <palmer@ci.wilsonville.or.us>; Jenna Bogert <jenna.bogert@dksassociates.com>; Scott Mansur <smm@dksassociates.com>
Subject: RE: Delta Logistics Annex Day Road Access Discussion

[This email originated outside of the City of Wilsonville]

Hi Amy,

Just following up on this to see if you or DKS has any questions we can answer. We appreciate your review of this as resolution on this matter is important for the project schedule.

Thank you,

Janet Jones, PE | she/her/hers
Associate | Transportation Engineering
D 971.346.3741 E jjones@mcknze.com

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From: Janet T. Jones

Sent: Wednesday, February 2, 2022 10:35 AM

To: Pepper, Amy <apepper@ci.wilsonville.or.us>; Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>
Cc: Palmer, Matt <palmer@ci.wilsonville.or.us>; Jenna Bogert <jenna.bogert@dksassociates.com>; Scott Mansur <smm@dksassociates.com>

Subject: RE: Delta Logistics Annex Day Road Access Discussion

Hi Amy,

Attached is a new slide deck that presents the driveway evaluation on SW Day Road based on a design speed of 35 mph. The conclusions remain the same: there are better sight lines for the Delta property at the proposed location versus the City's recommended location.

A minor change is that it would appear the sight distance recommendation for passenger cars is met at the alternative shared access for adjacent properties location assuming a design speed of 35 mph where it was not previously met with the 40 mph design speed. However, the sight distance for passenger cars should be met for both design speeds at this location as the roadway is relatively flat nearing the signal at Boones Ferry Road, as verified in the field. Overall, these alternative access locations for adjacent properties to the east have better sight lines than the City's recommended driveway location.

We are happy to answer any more questions you may have.

Thank you,

Janet Jones, PE | she/her/hers
Associate | Transportation Engineering
D 971.346.3741 E jjones@mcknze.com

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From: Pepper, Amy <apepper@ci.wilsonville.or.us>

Sent: Tuesday, January 18, 2022 2:24 PM

To: Janet T. Jones <JTJ@mcknze.com>; Lee D. Leighton <LLeighton@mcknze.com>; Scott Moore <SMoore@mcknze.com>; Brent Ahrend <BAhrend@mcknze.com>; Sid Hariharan <SHariharan@mcknze.com>; Adam

Goldberg <AGoldberg@mcknze.com>; Aaron Carpenter <ACarpenter@mcknze.com>; Igor Nichiporchik <igor@deltagov.com>; Garrett H. Stephenson <gstephenson@schwabe.com>; Greg Mino <GMino@mcknze.com>
Cc: Palmer, Matt <palmer@ci.wilsonville.or.us>; Jenna Bogert <jenna.bogert@dksassociates.com>; Scott Mansur <smm@dksassociates.com>

Subject: RE: Delta Logistics Annex Day Road Access Discussion

Thank you for providing additional information about the Day Road access location for the proposed Delta Logistics Annex. As you are likely aware, the City has pursued reducing the speed limit along Day Road to 35 mph in the past and that has been denied. The state legislature changed the rules that may allow the City to pursue a speed reduction again. To be able to fully evaluate the impacts to this project, will the project team please evaluate the proposed driveway locations based upon a speed limit of 35 mph? Once we have this data, the City should be able to provide a more definitive answer about the preferred driveway location.

Please let me know if you have any questions about this request.

Thanks!

Amy



10295 Southwest Bidde Road, Wilsonville, OR 97070
p 503 570 0636 | 1 503 587 9307 | republicservices.com

December 17, 2021

Aaron Carpenter

Re: McKenzie Architecture
9710 SW Day Rd.
Sherwood, OR 97140

Dear Aaron,

Thank you, for sending us the preliminary site plans for this proposed development in Sherwood OR.

My Company: Republic Services of Clackamas and Washington Counties has the franchise agreement to service this area with Washington County. We will provide complete commercial waste removal and recycling services as needed on a weekly basis for this location

We have reviewed your design plan site access and flow pattern and determined that it is adequate for our trucks to navigate the site and service the trash and recycle enclosure.

The trash and recycle enclosure will not have a roof and no vertical overhead obstructions. Your enclosure dimensions of 20' Ft. wide X 10'Ft. deep with two swinging gates that open a minimum of 120 degrees and are equipped with wind pins to secure gates in the closed and open positions will accommodate the storage and access of our equipment. The transition from the enclosure to the driveway is level with a smooth transition with no obstructions.

Thanks Aaron, for your help and concerns for our services prior to this project being developed.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kelly Herrod", written over a blue horizontal line.

Kelly Herrod
Operations Supervisor
Republic Services Inc.

| Luminaire Schedule | | | | | | |
|--------------------|-----|----------------------------|---|-------|------------|--------------------|
| Symbol | Qty | Label | Description | LLF | Lum. Watts | Lumens per Fixture |
| + | 2 | IAHP1A1xxxFDx50xxT4-BLS QP | ISON LED Area Light High Performance Gen 1, 75W, 13000 Lumens, 5000K, Type IV | 0.935 | 75.118 | 11963 |
| □ | 19 | LSWF1A1UNV - 3000LM 5000K | Lumen Select Wall Pack Full -cutoff, 120-277V, 3000lm, 24W, 80CRI, 5000K | 0.935 | 24 | 3072 |
| + | 13 | IAHP1A1xxxFDx50xxT4-BLS | ISON LED Area Light High Performance Gen 1, 75W, 13000 Lumens, 5000K, Type IV | 0.935 | 75.118 | 11963 |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Parking Lot | Illuminance | Fc | 1.47 | 33.3 | 0.0 | N.A. | N.A. |

Summary

IMPORTANT

1.) Presentation plans only. Not for construction use.

(1) GENERAL NOTES
 CONFIDENTIAL INFORMATION Please Note: This data is based upon certain specific assumed reflectances and characteristics of the proposed environment. Any deviation from these reflectances or assumed characteristics may affect the actual performance of the luminaires. Based on the factors, Orion Energy Systems, Inc. can not guarantee these results.

2) NO OBJECTS CONSIDERED IN CALCULATIONS UNLESS OTHERWISE NOTED ON THE PRINT.

3) STANDARD REFLECTION VALUES
 CEILING: .8
 WALLS: .5
 FLOOR: .2
 RACKING: .5



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| Prime Electrical Services, Delta Logistics | | | |
|--|-----------|----------|-------------|
| Wilsonville, OR P1303500 | | | |
| DRAWING | DATE | DRAWN BY | REVIEWED BY |
| REV 0 | 3/29/2022 | JG | |
| REV 1 | 3/09/2023 | JG | |
| | | | |

Interior Layout

IMPORTANT
1.) Presentation plans only. Not for construction use.

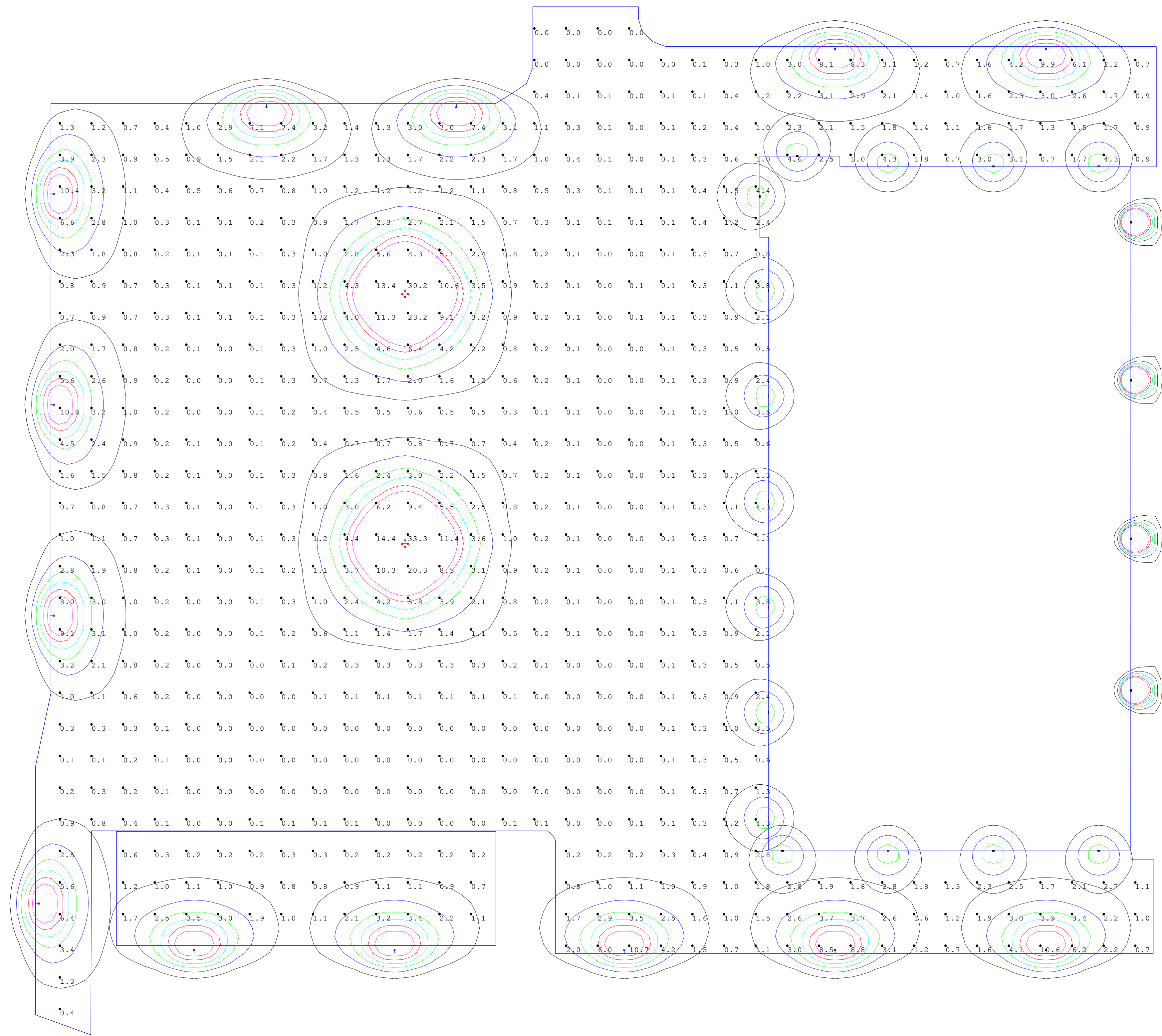
(1) GENERAL NOTES
CONFIDENTIAL INFORMATION Please Note: This data is based upon certain specific assumed reflectances and characteristics of the proposed environment. Any deviation from these reflectances or assumed characteristics may affect the actual performance of the luminaires. Based on the factors, Orion Energy Systems, Inc. can not guarantee these results.

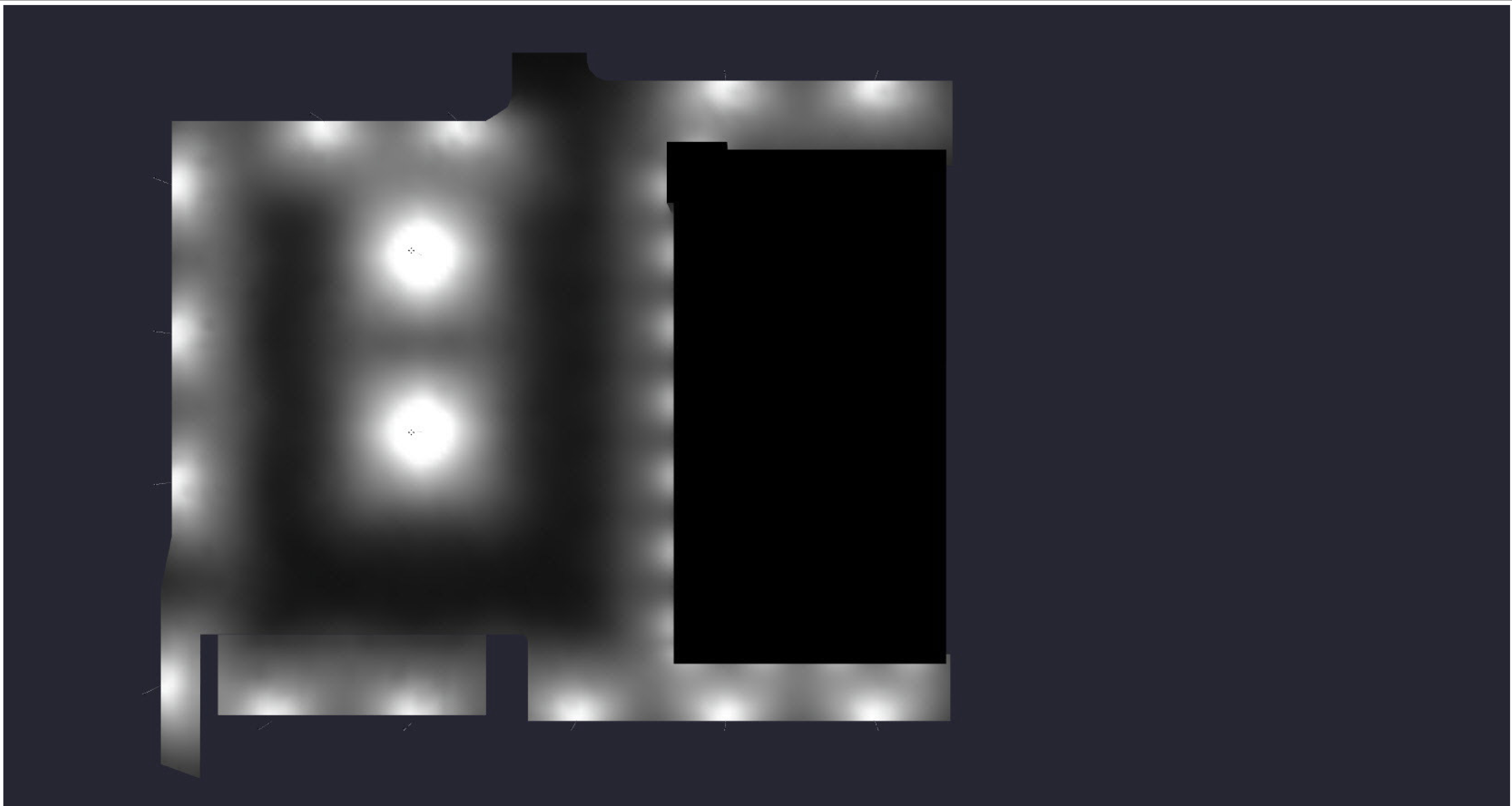
2) NO OBJECTS CONSIDERED IN CALCULATIONS UNLESS OTHERWISE NOTED ON THE PRINT.

3) STANDARD REFLECTION VALUES
CEILING: .8
WALLS: .5
FLOOR: .2
RACKING: .5



| Prime Electrical Services, Delta Logistics | | | |
|--|-----------|----------|-------------|
| Wilsonville, OR | | | |
| P1303500 | | | |
| DRAWING | DATE | DRAWN BY | REVIEWED BY |
| REV 0 | 3/29/2022 | JG | |
| REV 1 | 3/09/2023 | JG | |





Rendering

IMPORTANT
 1.) Presentation plans only. Not for construction use.

(1) GENERAL NOTES
 CONFIDENTIAL INFORMATION Please Note: This data is based upon certain specific assumed reflectances and characteristics of the proposed environment. Any deviation from these reflectances or assumed characteristics may affect the actual performance of the luminaires. Based on the factors, Orion Energy Systems, Inc. can not guarantee these results.

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3) STANDARD REFLECTION VALUES
 CEILING: .8
 WALLS: .5
 FLOOR: .2
 RACKING: .5



| Prime Electrical Services, Delta Logistics | | | |
|--|-----------|----------|-------------|
| Wilsonville, OR P1303500 | | | |
| DRAWING | DATE | DRAWN BY | REVIEWED BY |
| REV 0 | 3/29/2022 | JG | |
| REV 1 | 3/09/2023 | JG | |
| | | | |

| Luminaire Schedule | | | | | | |
|--------------------|-----|----------------------------|---|-------|------------|--------------------|
| Symbol | Qty | Label | Description | LLF | Lum. Watts | Lumens per Fixture |
| + | 2 | IAHP1A1xxxFDx50xxT4-BLS QP | ISON LED Area Light High Performance Gen 1, 75W, 13000 Lumens, 5000K, Type IV | 0.935 | 75.118 | 11963 |
| □ | 19 | LSWF1A1UNV - 3000LM 5000K | Lumen Select Wall Pack Full -cutoff, 120-277V, 3000lm, 24W, 80CRI, 5000K | 0.935 | 24 | 3072 |
| → | 18 | IAHP1A1xxxFDx50xxT4-BLS | ISON LED Area Light High Performance Gen 1, 75W, 13000 Lumens, 5000K, Type IV | 0.935 | 75.118 | 11963 |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Parking Lot | Illuminance | Fc | 1.46 | 33.3 | 0.0 | N.A. | N.A. |

Summary

IMPORTANT

1.) Presentation plans only. Not for construction use.

(1) GENERAL NOTES
 CONFIDENTIAL INFORMATION Please Note: This data is based upon certain specific assumed reflectances and characteristics of the proposed environment. Any deviation from these reflectances or assumed characteristics may affect the actual performance of the luminaires. Based on the factors, Orion Energy Systems, Inc. can not guarantee these results.

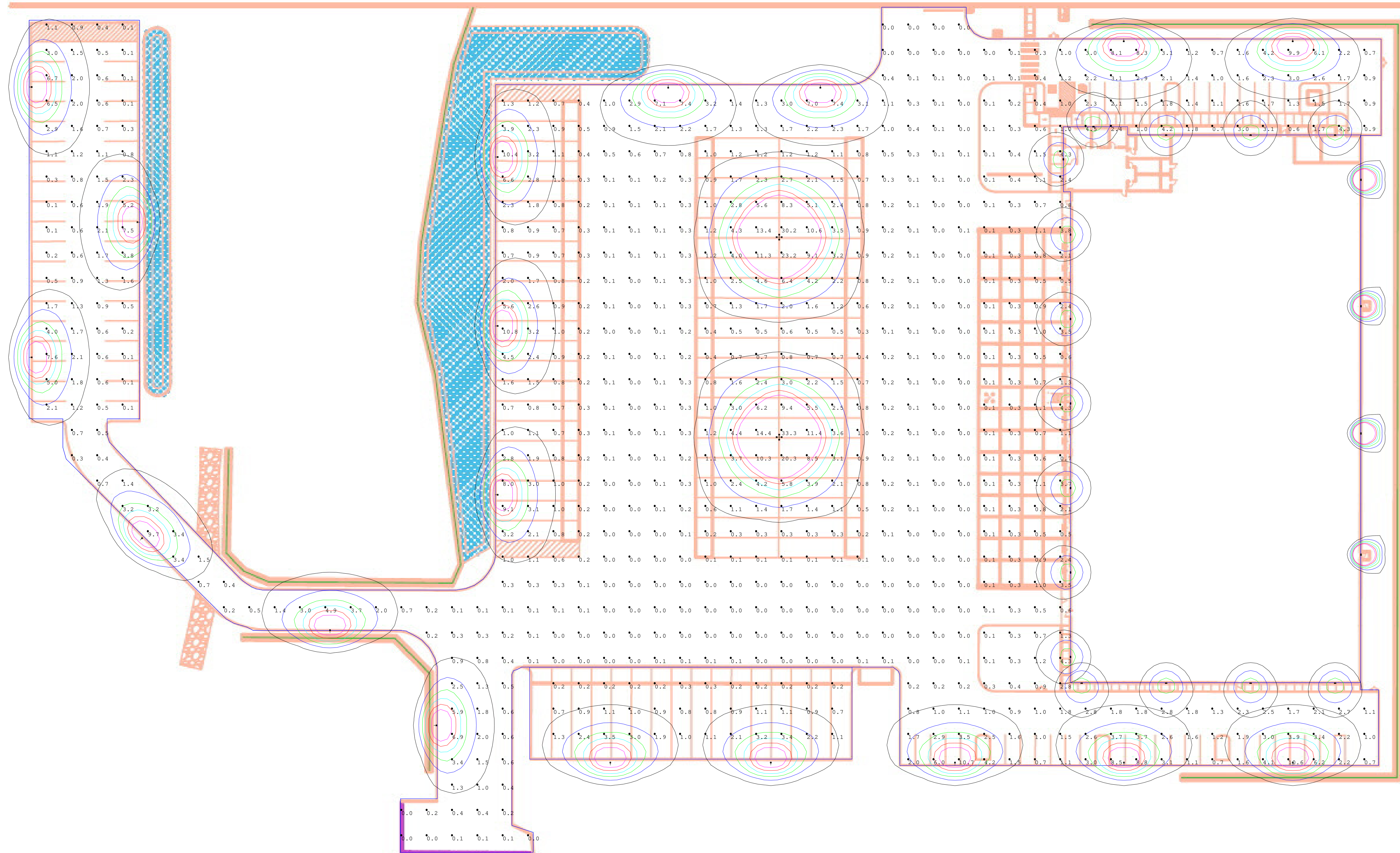
2) NO OBJECTS CONSIDERED IN CALCULATIONS UNLESS OTHERWISE NOTED ON THE PRINT.

3) STANDARD REFLECTION VALUES
 CEILING: .8
 WALLS: .5
 FLOOR: .2
 RACKING: .5



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| Prime Electrical Services, Delta Logistics | | | |
|--|-----------|----------|-------------|
| Wilsonville, OR P1303500 | | | |
| DRAWING | DATE | DRAWN BY | REVIEWED BY |
| REV 0 | 3/29/2020 | JG | |
| | | | |



Interior Layout

IMPORTANT
 1.) Presentation plans only. Not for construction use.

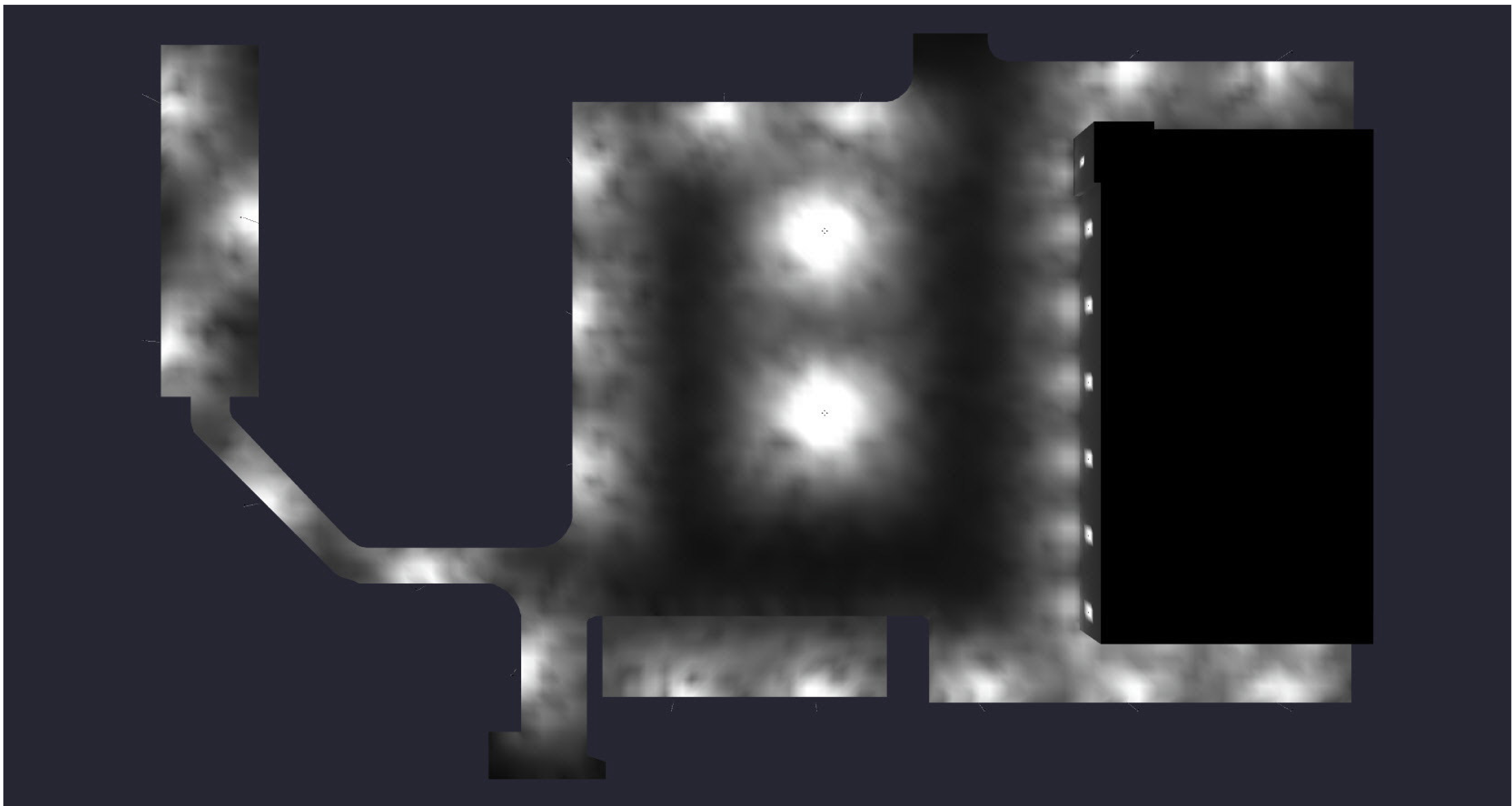
(1) GENERAL NOTES
 CONFIDENTIAL INFORMATION Please Note: This data is based upon certain specific assumed reflectances and characteristics of the proposed environment. Any deviation from these reflectances or assumed characteristics may affect the actual performance of the luminaries. Based on the factors, Orion Energy Systems, Inc. can not guarantee these results.

2) NO OBJECTS CONSIDERED IN CALCULATIONS UNLESS OTHERWISE NOTED ON THE PRINT.
 3) STANDARD REFLECTION VALUES
 CEILING: .8
 WALLS: .5
 FLOOR: .2
 RACKING: .5



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| Prime Electrical Services, Delta Logistics | | | |
|--|-----------|----------|-------------|
| Wilsonville, OR | | | |
| P1303500 | | | |
| DRAWING | DATE | DRAWN BY | REVIEWED BY |
| REV 0 | 3/29/2020 | JG | |
| | | | |
| | | | |



Rendering

IMPORTANT
 1.) Presentation plans only. Not for construction use.

(1) GENERAL NOTES
 CONFIDENTIAL INFORMATION Please Note: This data is based upon certain specific assumed reflectances and characteristics of the proposed environment. Any deviation from these reflectances or assumed characteristics may affect the actual performance of the luminaries. Based on the factors, Orion Energy Systems, Inc. can not guarantee these results.

2) NO OBJECTS CONSIDERED IN CALCULATIONS UNLESS OTHERWISE NOTED ON THE PRINT.

3) STANDARD REFLECTION VALUES
 CEILING: .8
 WALLS: .5
 FLOOR: .2
 RACKING: .5



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| Prime Electrical Services, Delta Logistics | | | |
|---|-----------|----------|-------------|
| Wilsonville, OR | | | |
| P1303500 | | | |
| DRAWING | DATE | DRAWN BY | REVIEWED BY |
| REV 0 | 3/29/2020 | JG | |
| | | | |
| | | | |

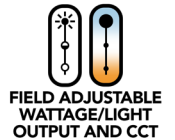
LSWF1

Applications

Full cutoff light output is ideal for exterior walls, entrance ways, pathways and steps. The HARRIS LSWF1 delivers energy savings and reduced maintenance costs and ideally replace any existing traditional style HID wall packs with similar look and size. It is the ultimate flexible wall pack fixture with lumen output and color temperature selection at the point of installation.



LSWF1A1UNVFD8CSBR-SP



Features

- Die-cast aluminum housing with UV stabilized powder coat finish for harsh outdoor environments. Bronze fixture housing color is standard. Black and white fixture housing colors available.
- UV resistant polycarbonate lens
- Two fixture sizes with selectable power/lumens between 3,000-18,000 lumen outputs provide flexibility to adjust in the field
- 80 CRI minimum; CCT selectable between 3000K, 4000K or 5000K
- Latest generation of LED technology enables fixture to run at lower wattages resulting in additional energy savings
- Meets full cutoff requirements at 90° horizontal
- Battery back up option available [90 minutes; A1 lumen package only]
- Integrated photocell standard
- PIR and Microwave sensor options

Electrical

- Available in 120v-277v
- 0-10v Continuous Dimming
- Power Factor >0.90
- Total Harmonic Distortion < 20%
- 10kV/5kA Surge Protection Standard

Ambient Operating Range

See ambient operating table on page 2

Fixture Certifications & Listings

- cUL/cULus Listed
- UL Wet Listed
- DesignLights Consortium™ Premium qualified luminaire
- Visit the [DLC QPL](#) for listed models

Lumen Maintenance

See lumen maintenance table on page 2

Warranty

See Orion's [Product Limited Warranty](#) for more details and information



Performance Information, 277v, ≥ 80 CRI²

| Nominal Lumen Code | Wattage | 3000K | | 4000K | | 5000K | | Input Current |
|--------------------|---------|---------------|-----|---------------|-----|---------------|-----|---------------|
| | | Actual Lumens | LPW | Actual Lumens | LPW | Actual Lumens | LPW | |
| A1 | 24w | 2,995lm | 125 | 3,102lm | 129 | 3,059lm | 128 | 0.2A |
| | 30w | 3,555lm | 118 | 3,682lm | 123 | 3,631lm | 121 | 0.24A |
| | 40w | 4,782lm | 120 | 4,953lm | 124 | 4,885lm | 122 | 0.35A |
| B1 | 45w | 6,013lm | 134 | 6,768lm | 150 | 6,674lm | 148 | 0.37A |
| | 54w | 7,237lm | 134 | 8,146lm | 151 | 8,033lm | 149 | 0.46A |
| | 70w | 8,779lm | 125 | 9,881lm | 141 | 9,745lm | 139 | 0.59A |
| | 80w | 9,657lm | 121 | 10,870lm | 136 | 10,719lm | 134 | 0.66A |
| C1 | 83w | 11,480lm | 138 | 11,890lm | 143 | 11,726lm | 141 | 0.69A |
| | 111w | 14,614lm | 132 | 15,137lm | 136 | 14,928lm | 134 | 0.93A |
| | 150w | 18,421lm | 123 | 19,080lm | 127 | 18,816lm | 125 | 1.21A |

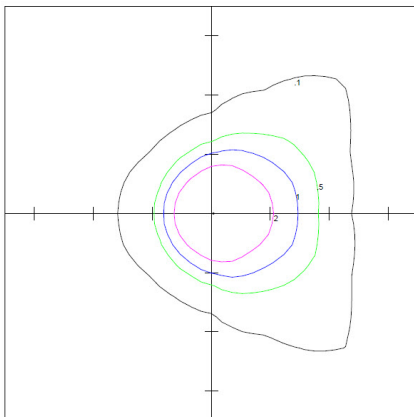
Lumen Maintenance

| Nominal Lumen Code | Nominal Lumens | Calculated Lumen Maintenance | | |
|--------------------|--------------------------|------------------------------|---------|---------|
| | | L70 | L80 | L90 |
| A1 | 3,000/4,000/5,000 | 372,000 | 228,000 | 101,000 |
| B1 | 6,000/7,000/9,000/10,000 | 372,000 | 228,000 | 101,000 |
| C1 | 12,000/15,000/18,000 | 372,000 | 228,000 | 101,000 |

Photometrics

Visit orionlighting.com to obtain all .IES files

C1 850



Distance are in Units of Mounting Height
 Mounting Height 30'
 Max. Calculated Value: 8.09 FC

Ambient Operating Temperatures^{4,5}

| Nominal Lumen Code | Standard Range |
|--------------------|--------------------------------|
| All Lumen Packages | -40°C to 50°C (-40°F to 122°F) |

LSWF1

Ordering Information Example (NOTE: No dashes or spaces unless noted below)

| Series | Nominal Lumen Code | Voltage | Driver Type | CRI; Color Temp | Fixture Colors | Fixture Options | Packaging Options |
|--------|--------------------|---------|-------------|-----------------|----------------|-----------------|-------------------|
| LSWF1 | C1 | UNV | FD | 8CS | BR | [blank] | -SP |

Ordering Information

| Series | Nominal Lumen Code ¹ | Voltage | Driver Type | CRI; Color Temp | Fixture Colors | Fixture Options | Packaging Options |
|--|---|--------------------------|--|--|---|---|----------------------------|
| LSWF1= HARRIS LED Lumen Selectable Wall pack, Full Cutoff, Gen 1 | A1= Lumen Selectable 3,000 lm/ 4,000 lm/ 5,000 lm B1= Lumen Selectable 6,000 lm/ 7,000 lm/ 9,000 lm/ 10,000 lm C1= Lumen Selectable 12,000 lm/ 15,000 lm/ 18,000 lm | UNV= 120v-277v | FD= Factory Wired for Dimming Applications | 8CS= 80CRI; Color Selectable 3000K/ 4000K / 5000K | BR= Bronze BL= Black* WH= White* *Note: These fixture colors are special order and have longer lead times | [Blank]= No Options BB= Battery Back Up* ⁴ *Note: Available with A1 model only | -SP= Single Pack |

Fixture Options (Field Installed)

| Sensor Options ⁵ | |
|-----------------------------|-----------------------|
| EXT-LSW-MS | Microwave Sensor |
| EXT-LSW-PIR | PIR Sensor |
| EXT-LSW-RC | Sensor Remote Control |



Microwave Sensor
(EXT-LSW-MS)

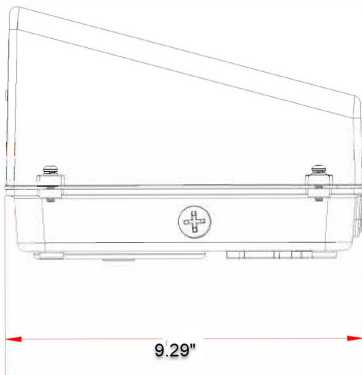


PIR Sensor
(EXT-LSW-PIR)

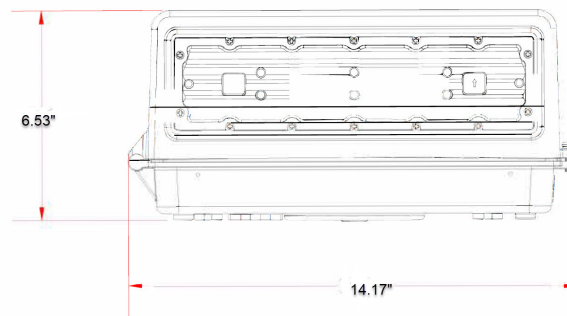
Physical Information³

| Nominal Lumen Code | Height | Width | Depth | Weight |
|--------------------|--------|--------|-------|-----------|
| A1/B1 | 9.29" | 14.17" | 6.53" | 7.50lbs. |
| C1 | 9.29" | 14.17" | 9.65" | 11.20lbs. |

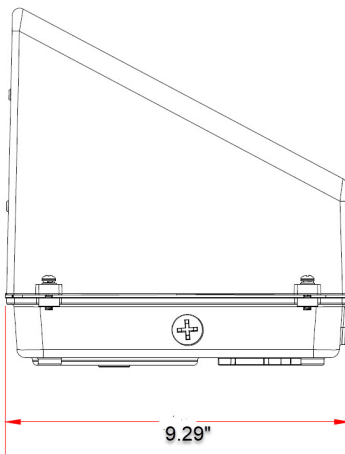
A1/B1 Height



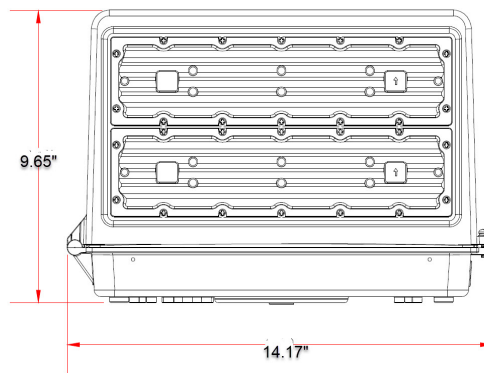
A1/B1 Width and Depth



C1 Height



C1 Width and Depth



Additional Specification Information

¹ For actual lumens, see performance table

² Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values.

³ Weight will vary based on option selection

⁴ Ambient operating temperature range for battery back up is -20°C to 50°C [-4°F to 122°F]

⁵ Ambient operating temperature for sensors only go down to -30°C [-22°F]

IAHP1

Applications

The ISON IAHP1 industry leading lumen per watt performance maximizes energy savings and leads to the lowest total cost of ownership for exterior lighting. The ISON Area Light High Performance provides uniform distribution for area and site lighting in retail, commercial, and residential applications including driveways and parking areas. Replaces up to 1200W HID high intensity discharge fixtures.



IAHP1C1UNVFD740BLT3-SP

Features

- Multiple light distribution options
- Precision engineered lens made of optical grade polycarbonate for maximum light intensity
- Tool-less access to electrical components for field maintenance and installation
- Three low-profile fixture sizes available in eight lumen packages
- Anti-corrosion stainless steel hardware
- Heavy duty die-cast aluminum housing comes standard in bronze. Black and white fixture housing available
- Multiple mounting options
- 10kV/6kA Surge Protection standard. Additional surge protection available
- Light shield kit options
- Photo control and occupancy sensor options
- Fixture ships ready for field installation of photocell option
- Various IoT Control Solutions are available to deploy with the IAHP1

Electrical

- Available in 120v-277v, and 277v-480v 3phase
- Full Dimming [0-10v] fixtures are standard
- Power Factor >.90
- 10kV/6kA Surge Protection standard
- Optional 12v DC auxiliary power provided with 7-pin NEMA receptacle

Lumen Maintenance

Up to 150,000 hours of operation. See Lumen Maintenance Table on page 3

Warranty

Orion ISON class LED fixtures are covered by a five-year limited warranty. Accessories and individual components are covered by separate OEM supplier warranties

Ambient Operating Range

See page 3 for ambient operating temperature range table

Fixture Certification & Listings

- UL/cUL Listed for Wet Locations
- RoHS Compliant Components
- IK10 Impact Rating
- Fixture with Sensor is IP66 Rated
- Fixture is IP67 Rated
- 3.0 G Vibration load rating per ANSI C136.31
- Title 24 Compliancy when using optional sensor
- DesignLights Consortium premium qualified product
- Visit the [DLC QPL](#) for listed models
- Dark Sky Approved. 3000K CCT



IP66 IP67



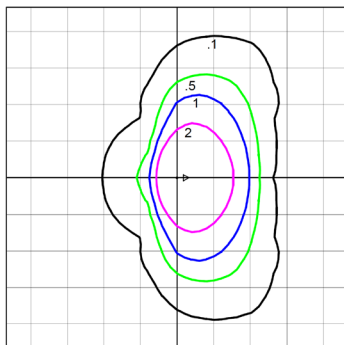
Performance Information, 277v, ≥70 CRI, 4000K²

| Nominal Lumen Code | Type V | | | | Type IV | | | | Type III | | | | Input Current |
|--------------------|---------------|---------|-----|------------|---------------|---------|-----|------------|---------------|---------|-----|------------|---------------|
| | Actual Lumens | Wattage | LPW | BUG Rating | Actual Lumens | Wattage | LPW | BUG Rating | Actual Lumens | Wattage | LPW | BUG Rating | |
| A1 | 13,464lm | 75w | 180 | B4-U0-G2 | 12,618lm | 75w | 169 | B3-U0-G2 | 12,918lm | 74w | 174 | B3-U0-G2 | 0.27A |
| B1 | 19,833lm | 114w | 175 | B4-U0-G2 | 18,676lm | 113w | 165 | B3-U0-G3 | 19,048lm | 113w | 168 | B3-U0-G3 | 0.41A |
| C1 | 24,485lm | 144w | 170 | B5-U0-G3 | 23,028lm | 144w | 160 | B3-U0-G3 | 23,640lm | 143w | 166 | B3-U0-G3 | 0.52A |
| D1 | 32,222lm | 179w | 180 | B5-U0-G4 | 30,546lm | 179w | 170 | B3-U0-G4 | 31,781lm | 180w | 176 | B4-U0-G3 | 0.65A |
| E1 | 35,295lm | 200w | 175 | B5-U0-G4 | 33,395lm | 201w | 166 | B3-U0-G4 | 34,107lm | 198w | 172 | B4-U0-G4 | 0.72A |
| F1 | 39,567lm | 229w | 173 | B5-U0-G4 | 37,640lm | 229w | 163 | B4-U0-G4 | 38,544lm | 228w | 169 | B4-U0-G4 | 0.83A |
| G1 | 50,551lm | 301w | 168 | B5-U0-G5 | 47,055lm | 296w | 159 | B4-U0-G5 | 49,233lm | 300w | 164 | B4-U0-G4 | 1.09A |
| H1 | 65,034lm | 410w | 159 | B5-U0-G5 | 61,365lm | 411w | 149 | B4-U0-G5 | 62,490lm | 412w | 152 | B4-U0-G5 | 1.48A |

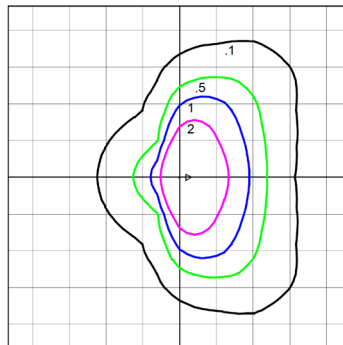
Performance Information, 277v, ≥80 CRI, 4000K²

| Nominal Lumen Code | Type V | | | | Type IV | | | | Type III | | | | Input Current |
|--------------------|---------------|---------|-----|------------|---------------|---------|-----|------------|---------------|---------|-----|------------|---------------|
| | Actual Lumens | Wattage | LPW | BUG Rating | Actual Lumens | Wattage | LPW | BUG Rating | Actual Lumens | Wattage | LPW | BUG Rating | |
| A1 | 12,630lm | 76w | 165 | B4-U0-G2 | 12,122lm | 76w | 159 | B3-U0-G2 | 12,587lm | 76w | 165 | B3-U0-G2 | 0.27A |
| B1 | 18,252lm | 111w | 164 | B4-U0-G2 | 17,518lm | 111w | 158 | B3-U0-G3 | 18,190lm | 111w | 164 | B3-U0-G3 | 0.40A |
| C1 | 22,186lm | 139w | 160 | B5-U0-G3 | 21,294lm | 139w | 153 | B3-U0-G3 | 22,111lm | 139w | 159 | B3-U0-G3 | 0.50A |
| D1 | 29,516lm | 176w | 168 | B5-U0-G4 | 28,329lm | 176w | 161 | B3-U0-G4 | 29,416lm | 176w | 167 | B4-U0-G3 | 0.63A |
| E1 | 32,875lm | 191w | 172 | B5-U0-G4 | 31,554lm | 191w | 165 | B3-U0-G4 | 32,765lm | 191w | 171 | B4-U0-G4 | 0.69A |
| F1 | 37,219lm | 221w | 169 | B5-U0-G4 | 35,723lm | 221w | 162 | B4-U0-G4 | 37,094lm | 221w | 168 | B4-U0-G4 | 0.80A |
| G1 | 49,402lm | 288w | 171 | B5-U0-G5 | 47,416lm | 288w | 164 | B4-U0-G5 | 49,236lm | 288w | 171 | B4-U0-G4 | 1.04A |
| H1 | 64,890lm | 400w | 162 | B5-U0-G5 | 62,281lm | 400w | 156 | B4-U0-G5 | 64,671lm | 400w | 162 | B4-U0-G5 | 1.45A |

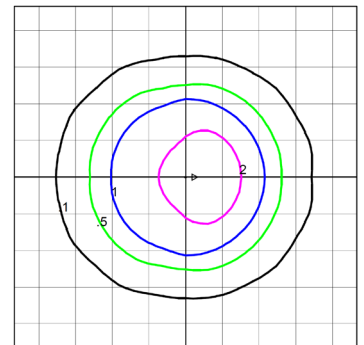
ISO FOOTCANDLE PLOTS



D1 750 T3
Distance are in Units of Mounting Height
Mounting Height 30'
Maximum Calculated Value: 8.90 Fc



D1 750 T4
Distance are in Units of Mounting Height
Mounting Height 30'
Maximum Calculated Value: 8.54 Fc



D1 750 T5
Distance are in Units of Mounting Height
Mounting Height 30'
Maximum Calculated Value: 3.12 Fc

Lumen Maintenance

| Series | Nominal Lumen Code | Nominal Lumens | Operating Temperature | Calculated Lumen Maintenance | | |
|--------|--------------------|----------------|-----------------------|------------------------------|--------|--------|
| | | | | L70 | L80 | L90 |
| IAHP1 | A1 | 13,000 | 25°C | 153,000 | 95,000 | 45,000 |
| | | | 50°C | 153,000 | 95,000 | 45,000 |
| IAHP1 | B1 | 19,000 | 25°C | 153,000 | 95,000 | 45,000 |
| | | | 50°C | 153,000 | 95,000 | 45,000 |
| IAHP1 | C1 | 23,000 | 25°C | 150,000 | 95,000 | 45,000 |
| | | | 50°C | 135,000 | 85,000 | 40,000 |
| IAHP1 | D1 | 31,000 | 25°C | 150,000 | 95,000 | 45,000 |
| | | | 50°C | 150,000 | 95,000 | 45,000 |
| IAHP1 | E1 | 34,000 | 25°C | 153,000 | 95,000 | 45,000 |
| | | | 50°C | 153,000 | 95,000 | 45,000 |
| IAHP1 | F1 | 38,000 | 25°C | 153,000 | 97,000 | 45,000 |
| | | | 50°C | 148,000 | 93,000 | 45,000 |
| IAHP1 | G1 | 48,000 | 25°C | 153,000 | 97,000 | 45,000 |
| | | | 50°C | 127,000 | 80,000 | 38,000 |
| IAHP1 | H1 | 63,000 | 25°C | 153,000 | 96,000 | 45,000 |
| | | | 45°C | 120,000 | 75,000 | 40,000 |

Fixture Dimensions and Physical Information

| Lumen Code | Length | Height | Width | Weight ³ | EPA (side) Using Slipfitter |
|------------|--------|--------|--------|---------------------|-----------------------------|
| A1/B1/C1 | 16.50" | 2.20" | 10.60" | 9.00 lbs | .32 ft ² |
| D1/E1/F1 | 20.30" | 2.20" | 13.70" | 13.00 lbs | .36 ft ² |
| G1/H1 | 23.00" | 3.00" | 14.10" | 22.00 lbs | .50 ft ² |

Ambient Operating Temperature Range⁹

| Lumen Code | Standard Operating Ambient Temperature Range |
|----------------------|--|
| A1/B1/C1/D1/E1/F1/G1 | -40°C to 50°C [-40°F to 122°F] |
| H1 | -40°C to 45°C [-40°F to 113°F] |



Ordering Information Example (NOTE: No dashes or spaces unless noted below)

| Series | Nominal Lumen Code | Voltage | Driver Type | CRI; Color Temp | Fixture Color | Light Distribution | Options | Packaging Options |
|--------|--------------------|---------|-------------|-----------------|---------------|--------------------|---------|-------------------|
| IAHP1 | C1 | UNV | FD | 740 | BL | T5 | [blank] | -SP |

Ordering Information

| Series | Nominal Lumen Code ¹ | Voltage | Driver Type | CRI; Color Temp | Fixture Color | Light Distribution | Options* | Packaging Options |
|--|--|--|----------------------------|--|--|---|---|----------------------------|
| IAHP1= ISON LED Area Light High Performance, Gen 1 | A1= 13,000lm B1= 19,000lm C1= 23,000lm D1= 31,000lm E1= 34,000lm F1= 38,000lm G1= 48,000lm ⁸ H1= 63,000lm ⁸ | UNV= 120v-277v HMV= 277v-480v | FD= Full Dimming | 730= 70CRI; 3000K ⁶ 740= 70CRI; 4000K 750= 70CRI; 5000K 830= 80CRI; 3000K ⁶ 840= 80CRI; 4000K 850= 80CRI; 5000K | BR= Bronze BL= Black ⁶ WH= White ⁶ | T5= Type V T4= Type IV T3= Type III | [Blank]= No Option TS2= 20kV/10kA Surge Protection 7R01= 3/5/7-Pin Universal NEMA Receptacle ^{7*} 7R02= 7 Pin NEMA Receptacle (with 12v power source) ^{7*} WBxx= PIR Occupancy Sensor, HIGH/LOW/OFF, 0-10V Dimming, Switching Photocell, Bluetooth, Mobile App Programmable, 360 ^{9,4,5,7,8} EN2= Enlighted Connected Lighting Sensor: Network Lighting Control Component, PIR Occupancy Sensor, Daylight Harvesting, High End Trim, Dimming Modes, Luminaire Level Lighting Control, Wireless Zones, Modified IEEE 802.15.4.1, BLE Radio, Temperature Sensor, Scene Control, Demand Response, Data Collection, BMS Integration, Cloud Access ^{7,8,9**} EN3= Enlighted IoT: All Features of EN2 - PLUS access to Apps: Space Management, Asset Tracking, and Contact Tracing Apps ^{7,8,9**} | -SP= Single Pack |

*Note: Universal NEMA 7-Pin receptacle used. See Page 5 for Photocell options.

**Note: For IoT cloud based and network systems See Page 5.

Accessories (Sold Separately - Field Installed)

| Mounting Options | |
|--|--|
| EXT-IAHP-SFT-001 | Bronze Slip-fitter, 2-3/8" Tenons |
| EXT-IAHP-YKS-001 | Bronze Yoke Mount, A1/B1/C1 |
| EXT-IAHP-YKM-001 | Bronze Yoke Mount, D1/E1/F1 |
| EXT-IAHP-YKL-001 | Bronze Yoke Mount, G1/H1 |
| EXT-IAHP-TRN-001 | Bronze Trunnion Mount, 5.5" Square Pole |
| EXT-IAHP-ADJ-001 ⁶ | Bronze Adjustable Arm, 4" Square Pole |
| EXT-IAHP-UPM-001 | Bronze Universal Pole Mount 3" Square or 4" Round Pole Kit |
| EXT-IAHP-UPM5-001 | Bronze Universal Pole Mount 3" Square or 5" Round Pole Kit |
| EXT-IAHP-UPM6-001 | Bronze Universal Pole Mount 3" Square or 6" Round Pole Kit |
| EXT-IAHP-SLM-001 ⁶ | Bronze Slide and Lock, 3" Square or 3-4" Round Pole |
| EXT-IAHP-WMA-001 ⁶ | Bronze Adjustable Wall Mount Arm Kit |
| Light Shield Options | |
| EXT-IAHP-BLS-001 | Bronze Back Light Shield, Small, A1/B1/C1 |
| EXT-IAHP-FLS-001 | Bronze Back and Sides Light Shields, Small, A1/B1/C1 |
| EXT-IAHP-BLM-001 | Bronze Back Light Shield, Medium, D1/E1/F1 |
| EXT-IAHP-FLM-001 | Bronze Back and Sides Light Shields, Medium, D1/E1/F1 |
| EXT-IAHP-BLL-001 | Bronze Back Light Shield, Large, G1/H1 |
| EXT-IAHP-FLL-001 | Bronze Back and Sides Light Shields, Large, G1/H1 |
| Note: To order a fixture bracket or Light Shield in Black change "001" to "002", or for White change "001" to "003". Example: EXT-IAHP-SFT-002 | |

| Control Options* | |
|---|---|
| EXT-IAHP-PE3-001 | Twist-lock Photocell On/Off Daylight Sensing Only, 120-277v |
| EXT-IAHP-PE3-002 | Twist-lock Photocell On/Off Daylight Sensing Only, 347v |
| EXT-IAHP-PE3-003 | Twist-lock Photocell On/Off Daylight Sensing Only, 480v |
| EXT-IAHP-SHC-001 | Shorting Cap |
| Note: When ordering field installed control options, 7R01 or 7R02 needs to be selected in the factory ordering information on Page 4. | |

| IoT Wireless Control Solutions* | |
|--|--|
| FYBR | IoT 7-Pin Intelligent Photocell Control System |
| NEDAP | IoT 7-Pin Smart Photocell Control System |
| Enlighted (EN2/EN3) | IoT Sensor Based Control System |
| *Note: Systems require additional hardware and software to function for connectivity to local/building and cloud based systems. For more information contact your Orion Representative about special order information, quoting and commissioning. | |

Accessories [Field Installed]



Slipfitter
[EXT-IAHP-SFT-001]



Yoke Mount
[EXT-IAHP-YKS/YKM/YKL-001]



Trunnion Mount
[EXT-IAHP-TRN-001]



Adjustable Arm Mount⁶
[EXT-IAHP-ADJ-001]



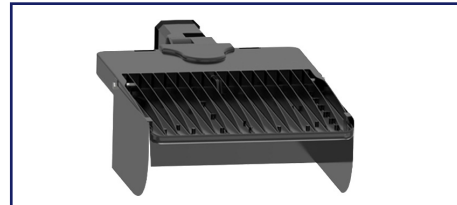
Universal Pole Mount Kit
[EXT-IAHP-UPMx-001]



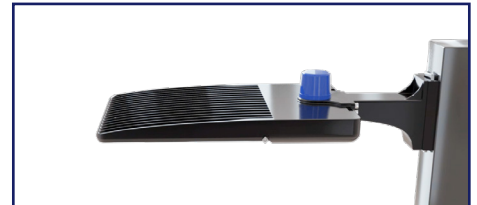
Slide and Lock Mount⁶
[EXT-IAHP-SLM-001]



Adjustable Wall Mount Arm Kit⁶
[EXT-IAHP-WMA-001]



Light Shield
[EXT-IAHP-FLx-001]



Photocell
[EXT-IAHP-PE3-00x]

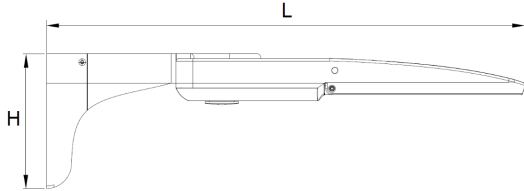
Fixture Options [Factory Installed]



Motion Sensor
[WBxx]

Fixture with Mounting Dimensions and Physical Information

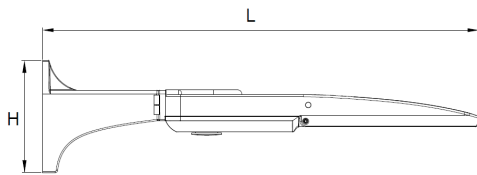
Slide and Lock Mount [EXT-IAHP-SLM]



| Lumen Code | Length | Height | Width | Weight | EPA [side @ 0°] |
|------------|--------|--------|--------|--------|---------------------|
| A1/B1/C1 | 22.68" | 6.53" | 11.00" | 12 lbs | .33 ft ² |
| D1/E1/F1 | 26.38" | 6.53" | 14.00" | 16 lbs | .37 ft ² |
| G1/H1 | 28.19" | 6.53" | 14.00" | 25 lbs | .51 ft ² |

Note: This mounting kit can adapt to 3"-4" round or min. 3" square pole

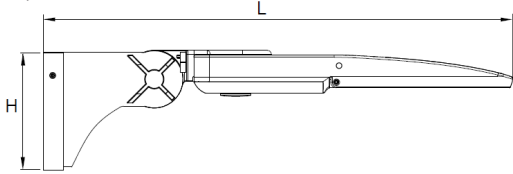
Universal Pole Mount [EXT-IAHP-UPM]



| Lumen Code | Length | Height | Width | Weight | EPA [side @ 0°] |
|------------|--------|--------|--------|--------|---------------------|
| A1/B1/C1 | 23.31" | 6.70" | 11.00" | 13 lbs | .38 ft ² |
| D1/E1/F1 | 27.01" | 6.70" | 14.00" | 17 lbs | .31 ft ² |
| G1/H1 | 28.82" | 6.70" | 14.00" | 26 lbs | .56 ft ² |

Note: This mounting kit can adapt to 4"/5"/6" round or min. 3" square pole.

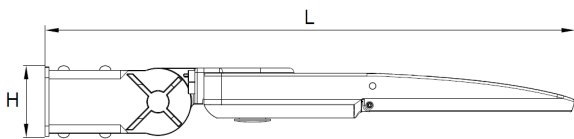
Adjustable Arm Mount [EXT-IAHP-AD] Adjustable Wall Mount [EXT-IAHP-WMA]



| Lumen Code | Length | Height | Width | Weight | EPA [side @ 0°] |
|------------|--------|--------|--------|----------|---------------------|
| A1/B1/C1 | 25.20" | 6.40" | 11.00" | 11.5 lbs | .40 ft ² |
| D1/E1/F1 | 28.03" | 6.40" | 14.00" | 15.5 lbs | .44 ft ² |
| G1/H1 | 30.71" | 6.40" | 14.00" | 24.5 lbs | .58 ft ² |

Note: The arm mount [EXT-IAHP-AD] can only adapt to min. 4" square pole.

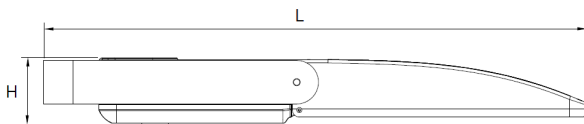
Slipfitter Mount [EXT-IAHP-SFT]



| Lumen Code | Length | Height | Width | Weight | EPA [side @ 0°] |
|------------|--------|--------|--------|----------|---------------------|
| A1/B1/C1 | 23.62" | 3.07" | 11.00" | 11.5 lbs | .32 ft ² |
| D1/E1/F1 | 27.32" | 3.07" | 14.00" | 15.5 lbs | .36 ft ² |
| G1/H1 | 29.13" | 3.07" | 14.00" | 24.5 lbs | .50 ft ² |

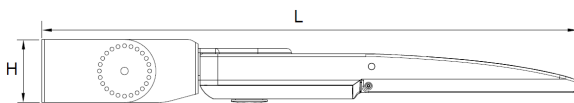
Note: This slipfitter can adapt to 2-3/8" tenons.

Yoke Mount [EXT-IAHP-YKx]



| Lumen Code | Length | Height | Width | Weight | EPA [side @ 0°] |
|------------|--------|--------|--------|----------|---------------------|
| A1/B1/C1 | 18.83" | 2.20" | 11.00" | 11.5 lbs | .42 ft ² |
| D1/E1/F1 | 21.94" | 2.20" | 14.00" | 15.5 lbs | .35 ft ² |
| G1/H1 | 24.55" | 3.00" | 14.00" | 24.5 lbs | .51 ft ² |

Trunnion Mount [EXT-IAHP-TRN]



| Lumen Code | Length | Height | Width | Weight | EPA [side @ 0°] |
|------------|--------|--------|--------|----------|---------------------|
| A1/B1/C1 | 23.44" | 2.80" | 11.00" | 12.5 lbs | .32 ft ² |
| D1/E1/F1 | 27.16" | 2.80" | 14.00" | 16.5 lbs | .36 ft ² |
| G1/H1 | 28.98" | 3.30" | 14.00" | 25.5 lbs | .50 ft ² |

Note: This mounting kit can adapt to min. 5.5" base.

Additional Specification Information

¹ For actual lumens, see performance table

² Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values. Values test results, and performance tables are based on an open area application at 277v

³ Weight will vary based on option selection

⁴ For more information about these options go to our [controls landing page](#)

⁵ "xx" in part number is a place holder for lens height of sensor. Either "20" or "40" can be included at the end of the part number to replace the "xx" placeholder

⁶ Special order option, lead times vary

⁷ **WBxx** and **ENx** cannot be used with **7R01** and **7R02** receptacles

⁸ **H1** and **G1** lumen packages are not compatible with **WBxx** or **ENx** sensor options

⁹ **ENx** is limited to -35°C [-31°F] environments

**FIRE CODE / LAND USE / BUILDING REVIEW
APPLICATION**



North Operating Center
11945 SW 70th Avenue
Tigard, OR 97223
Phone: 503-649-8577

South Operating Center
8445 SW Elligsen Rd
Wilsonville, OR 97070
Phone: 503-649-8577

REV 6-30-20

Project Information

Applicant Name: Mackenzie ATTN: Lee Leighton
 Address: 1515 SE Water Avenue, STE 100
 Phone: 971.346.3727
 Email: lleighton@mcknze.com
 Site Address: 9710 SW Day Road
 City: Wilsonville / Washington County
 Map & Tax Lot #: 3S102B 0600, 0601
 Business Name: Delta Logistics, LLC
 Land Use/Building Jurisdiction: Wilsonville
 Land Use/ Building Permit # Pending

Choose from: ~~Beaverton, Tigard, Newberg, Tualatin, North Plains, West Linn, Wilsonville, Sherwood, Rivergrove, Durham, King City, Washington County, Clackamas County, Multnomah County, Yamhill County~~

Project Description

Annexation, Zone Map Amendment, Planned Development Stage I & II, Site Design Review and related development applications for a 56,100 sf single-building speculative industrial development consistent with the Coffee Creek Industrial Area Plan.

Permit/Review Type (check one):

Land Use / Building Review - Service Provider Permit
 Emergency Radio Responder Coverage Install/Test
 LPG Tank (Greater than 2,000 gallons)
 Flammable or Combustible Liquid Tank Installation (Greater than 1,000 gallons)
 * Exception: Underground Storage Tanks (UST) are deferred to DEQ for regulation.
 Explosives Blasting (Blasting plan is required)
 Exterior Toxic, Pyrophoric or Corrosive Gas Installation (in excess of 810 cu.ft.)
 Tents or Temporary Membrane Structures (in excess of 10,000 square feet)
 Temporary Haunted House or similar
 OLCC Cannabis Extraction License Review
 Ceremonial Fire or Bonfire (For gathering, ceremony or other assembly)

For Fire Marshal's Office Use Only

TVFR Permit # 2022-0008
 Permit Type: SPP-COW
 Submittal Date: 1/19/2022
 Assigned To: DFM Ann
 Due Date: 1/26/2022
 Fees Due: Ø
 Fees Paid: Ø

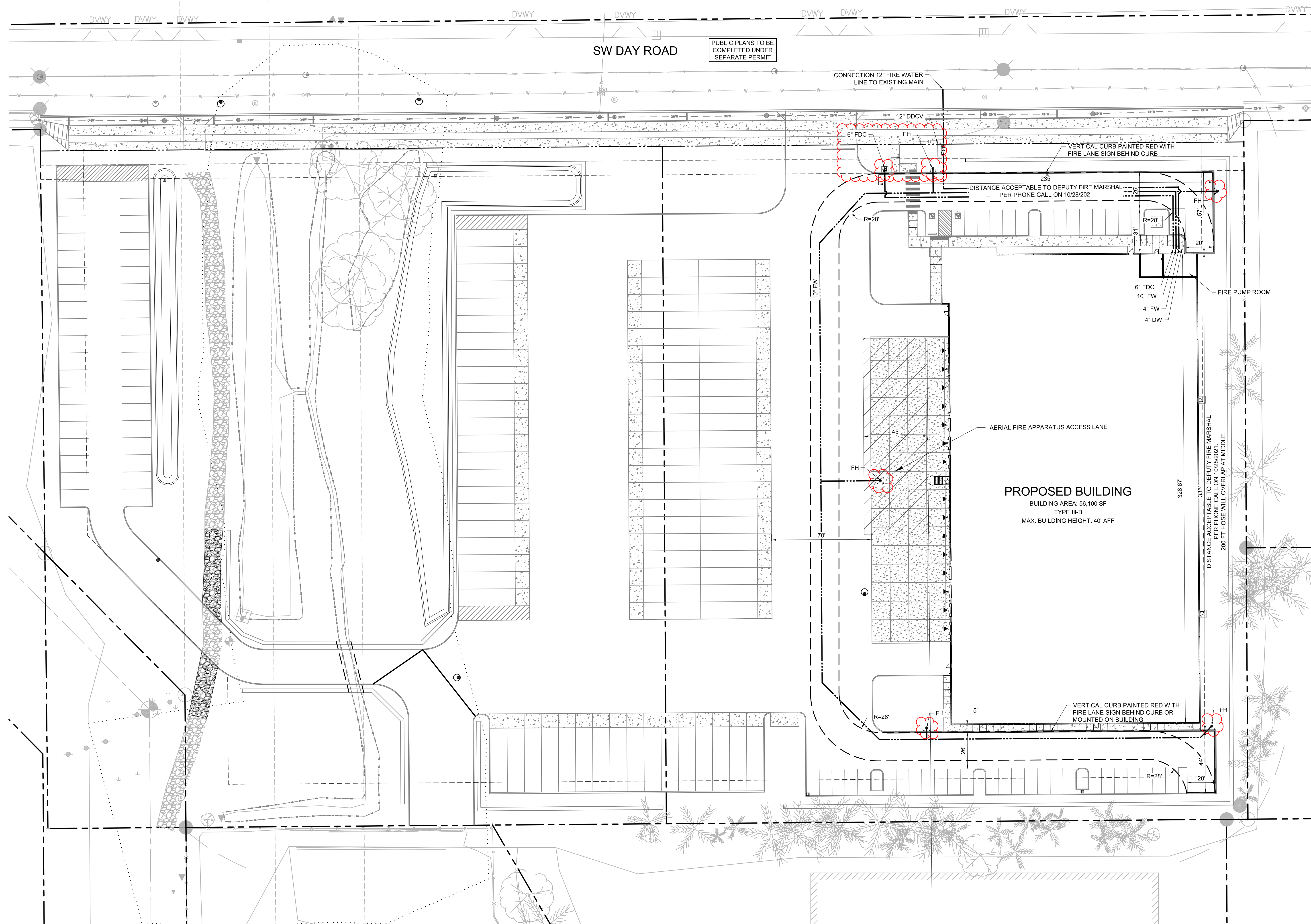
Approval/Inspection Conditions
(For Fire Marshal's Office Use Only)

| | |
|--|---|
| <p>This section is for application approval only</p> <p><u>[Signature]</u> <u>0430</u> <u>1/26/22</u> Fire Marshal or Designee Date</p> <p>Conditions: <u>See attached Fire Service Plans.</u></p> <p>See Attached Conditions: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Site Inspection Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> | <p>This section used when site inspection is required</p> <p>Inspection Comments:</p> <hr/> <p>Final TVFR Approval Signature & Emp ID _____ Date _____</p> |
|--|---|

REVISION SCHEDULE

| Delta | Issued As | Issue Date |
|-------|-----------|------------|
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SHEET TITLE:
FIRE SAFETY PLAN



APPROVAL OF PLANS IS NOT AN APPROVAL OF OMISSIONS OR OVERSIGHTS.

Jason D. Taylor
Deputy Fire Marshal II

TVFR Permit # 2022-0008

FD Notes:

Building will be required to test for a Emergency Responder Radio Coverage or opt into our Mobile Emergency Radio program (MERRC). If the MERRC option is chosen, fees will need to be paid to TVFR prior to the issuance of a Building Permit OFC 510.

Fire Lane markings to be determined OFC 503.3.

Fire department final inspection required OFC 107.2.

DRAWN BY: BMR

CHECKED BY: BMR, GIM

SHEET

C3.11

JOB NO. 2200502.04







MACKENZIE.

DESIGN DRIVEN | CLIENT FOCUSED

P-3 SHEET METAL TOP CAP

P-3 PAINTED CONCRETE REVEAL

P-2 PAINTED CONCRETE PANEL

P-3 PAINTED STEEL CANOPY

P-1 PAINTED CONCRETE PANELS



NE CORNER PERSPECTIVE

PERFORATED METAL SCREEN WALL
(SEE ATTACHED PRODUCT INFO)



NORTH FACADE ENLARGEMENT

P-3 PAINTED CONCRETE REVEAL

P-1 PAINTED CONCRETE PANEL

P-4 PAINTED CONCRETE REVEAL

PERFORATED METAL PANELS

P-3 PAINTED CONCRETE BASE



STOREFRONT:
CLEAR ANODIZED
ALUMINUM



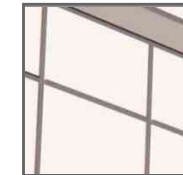
GLAZING:
VISTACOOOL PACIFICA
+ SOLARBAN 60



DOCK DOORS:
FACTORY FINISH WHITE



CANOPY:
PAINTED STEEL CANOPY
(P-3)



PAINTED CONCRETE/
CONCRETE REVEALS



PERFORATED METAL PANELS AT
SCREEN WALL AND BUILDING
BASE (SEE ATTACHED PRODUCT
INFO)

Zinc Gray
SR:0.35 E:0.86 SRI:37
RGB: 100 97 93

| P-4 | P-1 | P-2 | P-3 |
|-----------------------------------|------------------------------|------------------------------------|---|
| SW 7006 | SW 7667 | SW 7670 | SW 7674 |
| Color Name: EXTRA WHITE | Color Name: ZIRCON | Color Name: GRAY SHINGLE | Color Name: PEPPERCORN |
| RGB 238/239/234 | RGB 202/201/198 | RGB 148/147/146 | RGB 88/88/88 |
| Light Accent | Body | Trim Large accent areas | Dark Accent Building base, unfinished metals, handrails, dock plates |

Delta Logistics - Wilsonville

MATERIALS BOARD | 07.26.22

Protected by



Metal Wall & Roof Systems
North America

Architectural Metal Wall & Roof Systems Color Options

Our range of color options provide you with the most durable surfaces and longest warranties, with custom color matching available there are unlimited design options available.

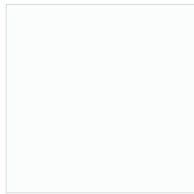
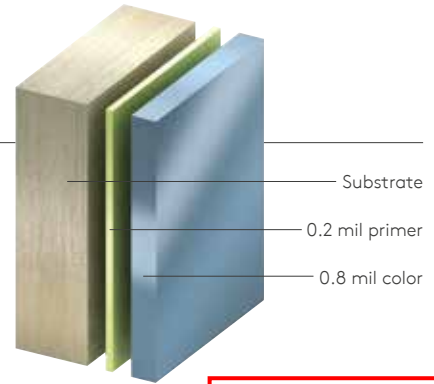
Morin[®]
A Kingspan Group Company

Color Options

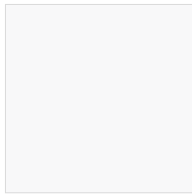
Standard Colors

Fluoropon® PVDF – Kynar500®

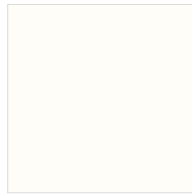
Formulated with 70% Kynar 500® proprietary resin, Fluoropon® is a premium fluoropolymer coating. Factory applied and baked on, it provides excellent adhesion and flexibility properties with aluminum, HDG steel or Galvalume® components.



Regal White
SR:0.70 E:0.86 SRI:85
RGB: 205 208 207



Ascot White
SR:0.69 E:0.85 SRI:83
RGB: 205 207 207



Bone White
SR:0.69 E:0.84 SRI:83
RGB: 212 210 198



Sandstone
SR:0.61 E:0.85 SRI:72
RGB: 184 180 166



Dove Gray
SR:0.47 E:0.86 SRI:53
RGB: 143 145 144



Zinc Gray
SR:0.35 E:0.86 SRI:37
RGB: 100 97 93



Chromium Gray
SR:0.56 E:0.86 SRI:65
RGB: 166 166 164



Surrey Beige
SR:0.48 E:0.86 SRI:54
RGB: 154 139 121



Sierra Tan
SR:0.38 E:0.85 SRI:40
RGB: 145 129 115



Parchment
SR:0.53 E:0.85 SRI:61
RGB: 154 148 136



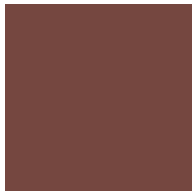
Antique Bronze
SR:0.43 E:0.86 SRI:48
RGB: 127 119 109



Spartan Bronze
SR:0.31 E:0.85 SRI:31
RGB: 71 65 59



Dark Bronze
SR:0.27 E:0.85 SRI:26
RGB: 55 51 50



Redwood
SR:0.38 E:0.86 SRI:41
RGB: 116 69 63



Colonial Red
SR:0.32 E:0.86 SRI:33
RGB: 87 51 50



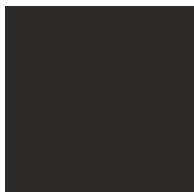
Patina Green
SR:0.41 E:0.84 SRI:44
RGB: 106 113 98



Evergreen
SR:0.26 E:0.85 SRI:24
RGB: 56 70 62



Slate Blue
SR:0.28 E:0.85 SRI:27
RGB: 75 103 115



Bristol Black
SR:0.26 E:0.86 SRI:25
RGB: 45 43 42



Blue Gray
SR:0.27 E:0.85 SRI:26
RGB: 59 61 62



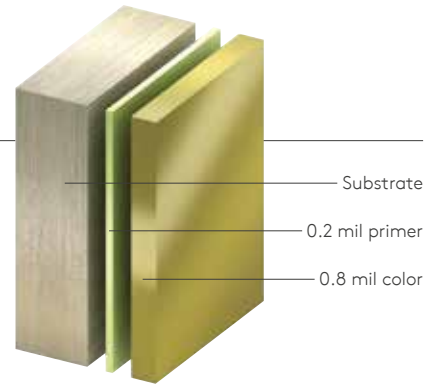
Regal Blue
SR:0.26 E:0.85 SRI:24
RGB: 43 68 87

To find out more and to see the complete range, visit: www.morincorp.com

Premium Colors – Mica

Fluropon® Classic II PVDF

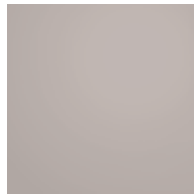
2-Coat Fluropon® Classic II PVDF is a premium fluoropolymer coating containing 70% Kynar 500® proprietary resin that achieves a pearlescent appearance. This two coat system is a cost-effective alternative to metallic systems requiring clear coat.



Silversmith
SR:0.53 E:0.79 SRI:59
RGB: 161 163 161



Champagne Bronze
SR:0.44 E:0.78 SRI:46
RGB: 149 139 130



Champagne Pearl
SR:0.48 E:0.81 SRI:53
RGB: 166 156 148



Weathered Zinc
SR:0.33 E:0.84 SRI:33
RGB: 99 105 106

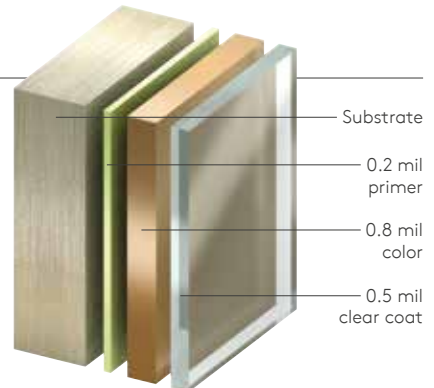


Copper Penny
SR:0.48 E:0.84 SRI:54
RGB: 156 108 77

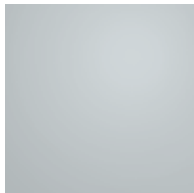
Premium Colors – Metallic

Fluropon® Classic PVDF

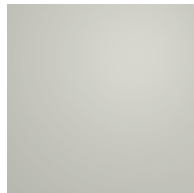
3-Coat Fluropon® Classic PVDF is a premium fluoropolymer coating containing 70% Kynar 500® proprietary resin and a special metallic effect. Due to its outstanding color retention and resistance to ultraviolet radiation, it is the preferred choice among architects and metal building manufacturers.



Medium Gray
SR:0.36 E:0.85 SRI:38
RGB: 105 106 106



Seafoam Green
SR:0.49 E:0.87 SRI:56
RGB: 158 168 165



Champagne Gold
SR:0.51 E:0.85 SRI:58
RGB: 155 153 148



Bright Silver
SR:0.57 E:0.81 SRI:65
RGB: 163 164 164

Custom Color Matching Available

Morin makes it easy to add protection and visual distinction to your next project. Our state-of-the-art color and paint facility can achieve virtually any tint, shade or finish to your specifications, quickly and accurately. To get started, contact our experienced sales representatives today for details.

To find out more and to see the complete range, visit: www.morincorp.com

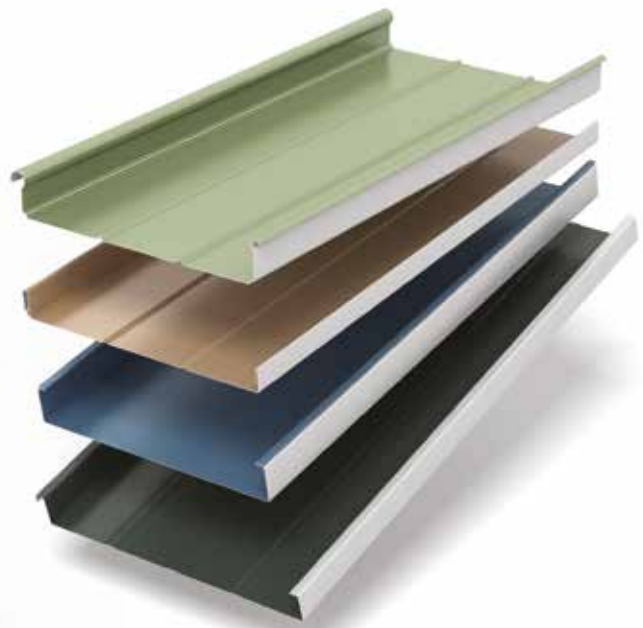
Innovative Design Solutions

The Morin story goes well beyond the panels. We thrive in helping customers bring their most challenging design ideas to life. Beyond panels we offer a complete suite of metal finishes including perforations, corners, coordinated louvers and fasteners and custom extrusions for a complete look.

The Industry's Most Versatile Single Element Metal Wall and Roof Panels

We offer over 100 wall and roof panel options with a wide range of panels with unique profiles including over 30 integrated panels. Our Matrix, Integrity and Pulse series of panels all have interlocking joinery and can be easily integrated.

Morin Systems provide for a complete, finished, custom fabricated look. Rounded or miter corners, extrusions, foam backers and custom cut components will make for a more professional looking, longer lasting job.



We know we are just one part of many in a project, we want to make our part look its best and have all the tools available from design to installation for you.

To find out more and to see the complete range, visit: www.morincorp.com



Architectural Metal Wall & Roof Systems
Color Options

Design Options

Morin can supply all the elements you need to create a totally unique design for your building.

Design options include:

- **Perforations**
Air flow, sun screen, sound reduction or security. We have 6 standard patterns or we can produce custom repeat patterns.
- **Curving**
We can fabricate and ship crimp and stretch curving, or for larger panels we roll form on-site and bend to order.
- **Louvers**
Morin profile matching louvers are designed to blend with adjacent panels in material and finish. Get that finished look and we can design panels that conceal the louver location.
- **Mitred Corners**
Miterseam corners can be supplied at various angles and lengths to suit a multitude of design options, fabricated from the same materials as the adjacent panels.
- **Matching fasteners**
Fasteners with custom color matching to assure your panel installation is punch list free.
- **Extrusions**
Extruded aluminum trim can be furnished for panel systems up to 3" deep.

The Complete Solution

Let us help guide you through the process. From material selection to installation, we can help with the technical files as well as all the components needed for a finished project.

Morin has technical support available from start to finish. We are there to help you through every phase of building from technical CAD support to on-site installation.

We have on-site technical staff to help with drawings, design, cost-effective construction application and technical designs for complicated projects. We also offer on-site installation guidance and support from our expertly trained knowledgeable team.

Our nationwide sales network and in-house technical service teams provide innovative solutions for today's progressive architecture. Visit www.morincorp.com for access to profiles, specifications, AutoCAD details, load span charts and technical manuals.

Morin's knowledgeable sales staff provides AIA/CES approved seminars on single element architectural metal wall and roof systems.

To find out more and to see the complete range, visit: www.morincorp.com

Contact Details

USA

HQ / East

685 Middle Street | Bristol
CT 06010

T: 1-800-640-9501

West

10707 Commerce Way | Fontana
CA 92337

T: 1-800-700-6140

South

1975 Eidson Drive | DeLand
FL 32724

T: 1-800-640-9501

www.morincorp.com



Morin proudly partners with Sherwin-Williams® paints to provide Sherwin-Williams' cool color palette – high-performance, sustainable finishes with many green benefits.

When applied to a roof, these select hues are able to contribute to several LEED® credits, including Sustainable Sites (SS) Credit: Heat Island Reduction.

These hues are intended to reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimates and human and wildlife habitat.

As required by LEED's Sustainable Sites (SS) Credit, Sherwin-Williams' cool color palette is ENERGY STAR compliant, specifying highly reflective and high-emissivity roofing (emissivity of at least 0.9 when tested in accordance with ASTM 408) for a minimum of 75% of the roof surface.

SHERWIN-WILLIAMS®
Coil Coatings



For the product offering in other markets please contact your local sales representative or visit www.morincorp.com

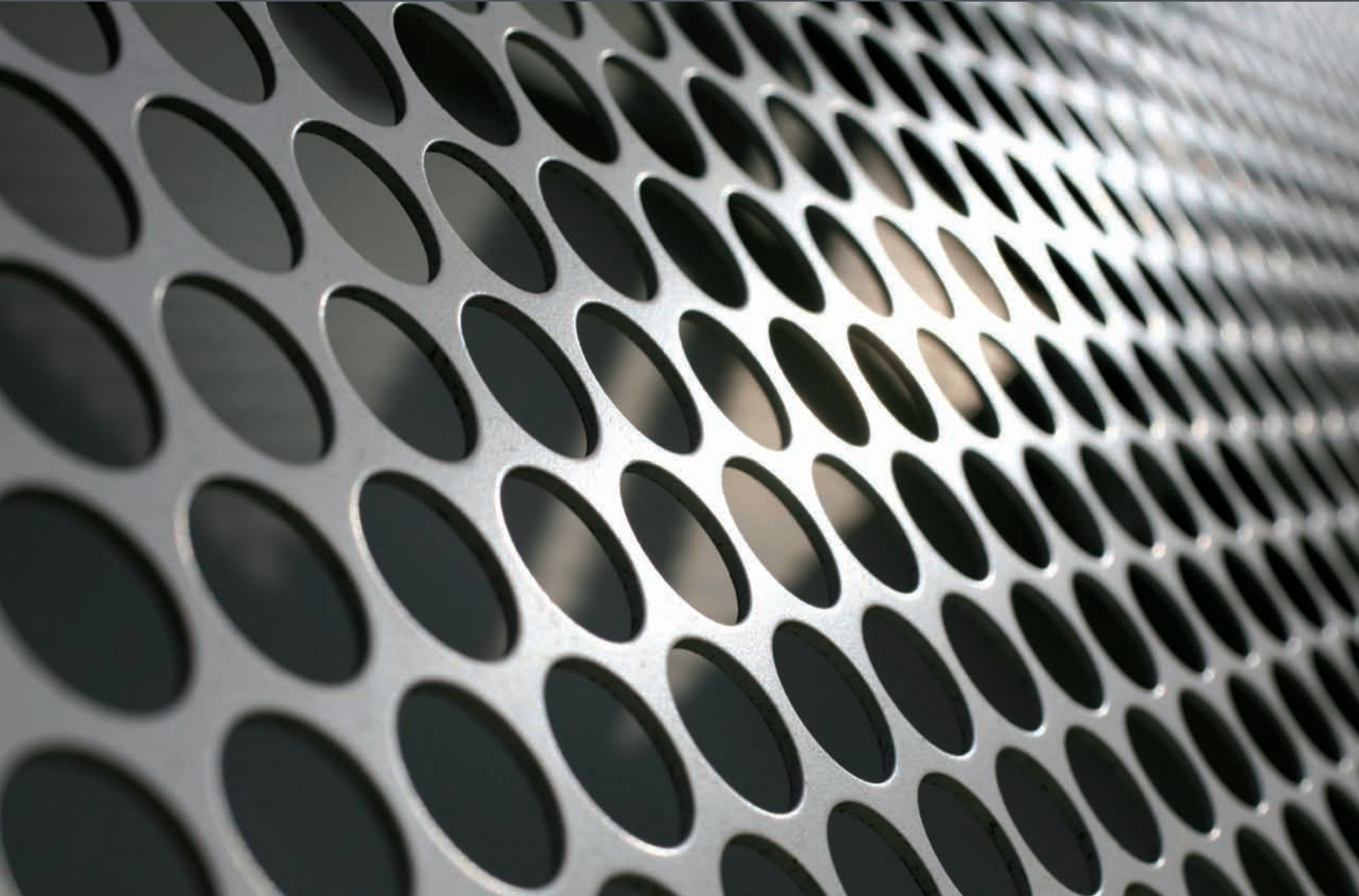
Care has been taken to ensure that the contents of this publication are accurate, but Morin Corporation does not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use or application of products or methods of working are for information only and Morin Corporation accepts no liability in respect thereof.

Morin®
A Kingspan Group Company

Perforated Panels



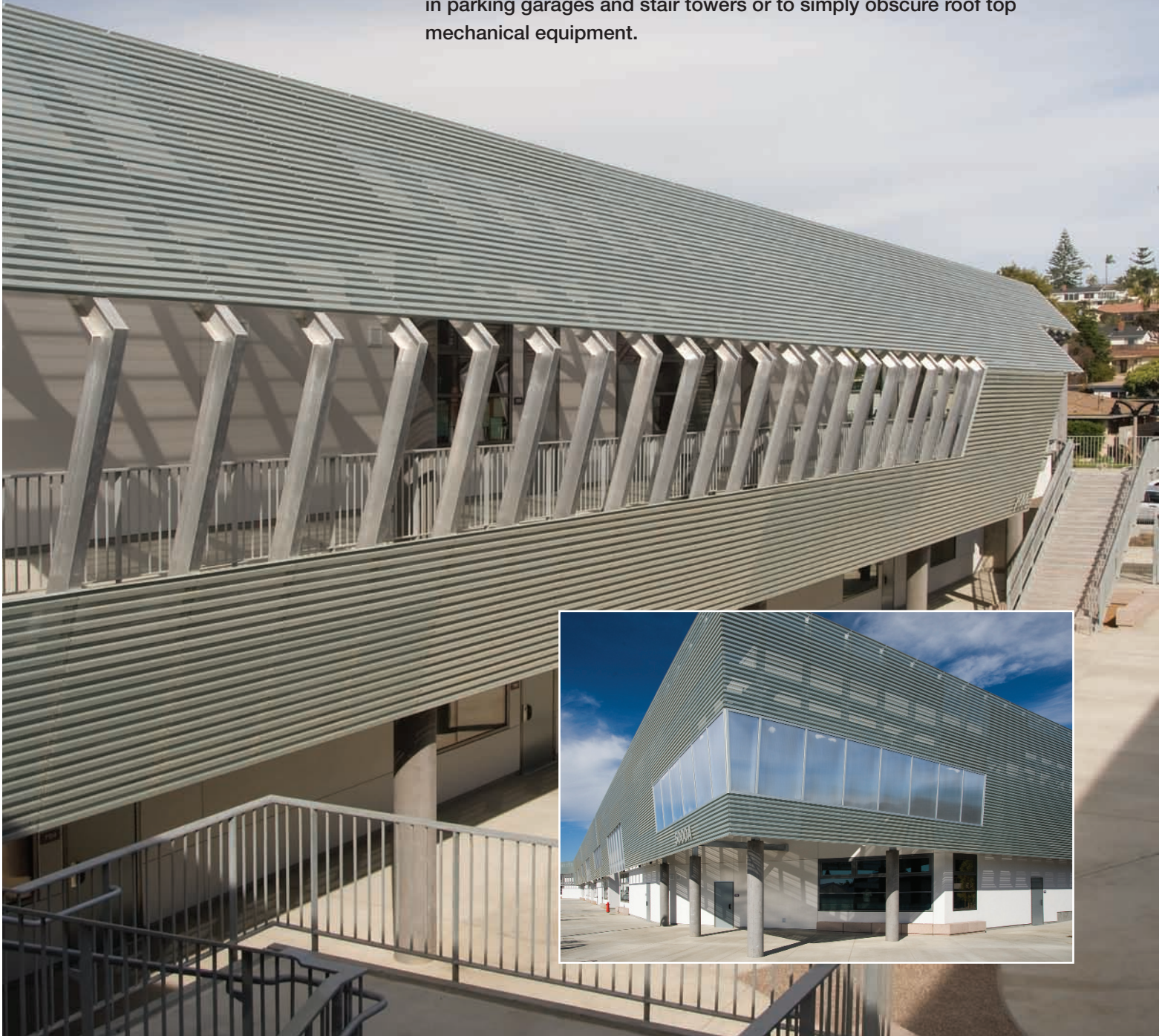
ARCHITECTURAL METAL WALL & ROOF SYSTEMS



Morin

A Kingspan Group Company

Morin's exterior perforated panels are attractive, functional and economical. The many architectural applications include passive solar shading, control of light and sound pollution, security screening in parking garages and stair towers or to simply obscure roof top mechanical equipment.



Project: Carlsbad High School
Location: Carlsbad, CA
Architect: Perkins + Will, Los Angeles, CA
Products: Matrix Panel, MX 1.0,
.040 Aluminum,
perforated 23% open area
in three separate patterns
Colors: Seafoam Green and
Weathered Zinc Mica finish



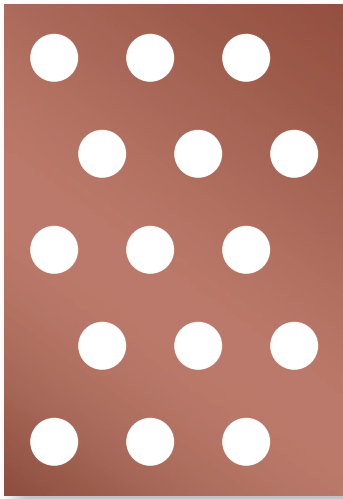


Project: Anacostia Library
Location: Washington, DC
Architect: The Freelon Group with
 R. McGhee & Associates Durham, NC
Products: MR-36 profile with perforation pattern
 1/8" Diameter holes X 1/4" staggered spacing
 Color: Inchworm Green, Fluoropon finish
 A-12 profile
 .040 Aluminum,
 Color: Silversmith, Mica finish

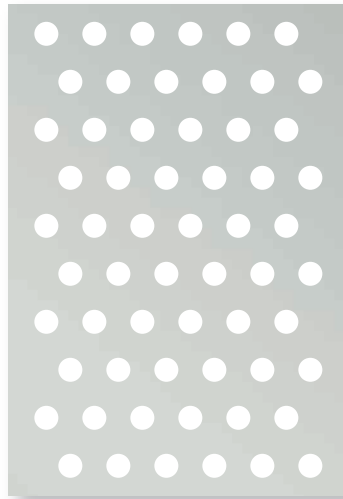


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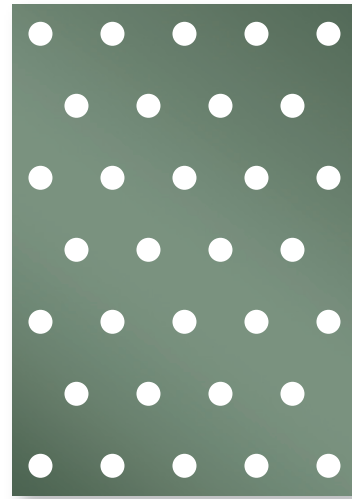
PERFORATED PANEL TECHNICAL DATA



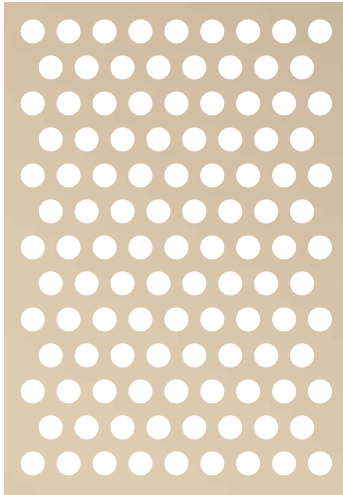
1/4" Hole, 1/2" Spacing
23% open area



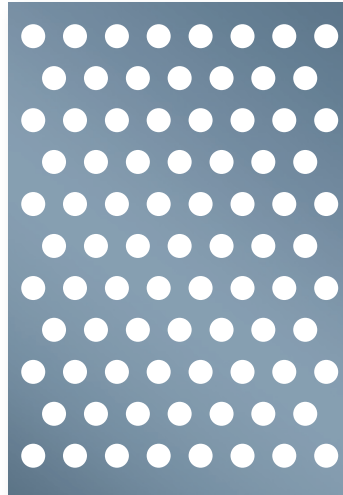
1/8" Hole, 1/4" Spacing
23% open area



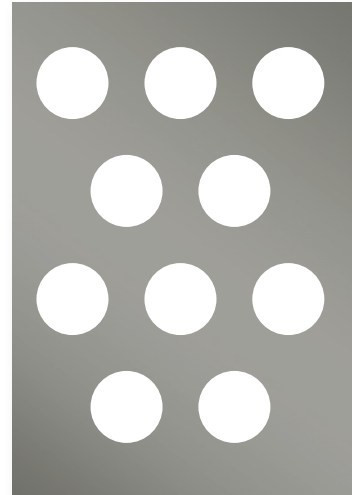
1/8" Hole, 3/8" Spacing
10% open area



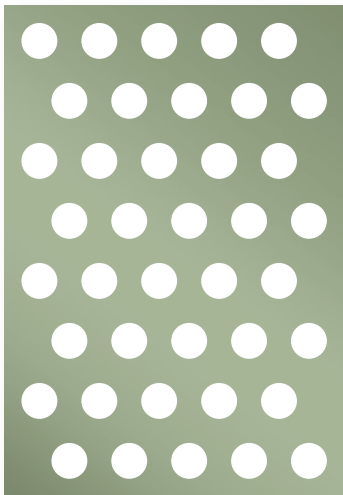
1/8" Hole, 3/16" Spacing
40% open area



1/8" Hole, 7/32" Spacing
30% open area



3/8" Hole, 9/16" Spacing
40% open area



3/16" Hole, 5/16" Spacing
33% open area

Perforated Panel Options

Available Profiles: All Morin panel profiles are available for perforating

Available Materials:

- Aluminum: .040, .050, .063
- Stainless Steel: 22 and 20 gauge
- Cor-Ten: 22, 20 and 18 gauge
- Galvalume painted steel 22, 20 and 18 gauge (Interior Application Only)

Available Finishes:

- 1.0 mil PVDF (Kynar 500 / Hylar 5000)
- 1.0 mil Mica Finish
- 1.5 mil Metallic Finish

Note: Painted finishes are typically applied to both sides of a perforated panel. Architect can select different colors for side A and side B at additional cost.





Project: M3 Engineering
Location: Tuscan, AZ
Product: C29
Colors: Copper Penny Mica finish

Morin

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East / HQ 685 Middle Street, Bristol, CT 06010, 1-800-640-9501
West 10707 Commerce Way, Fontana, CA 92337, 1-800-700-6140
South 726 Summerhill Drive, Deland, FL 32724, 1-800-640-9501

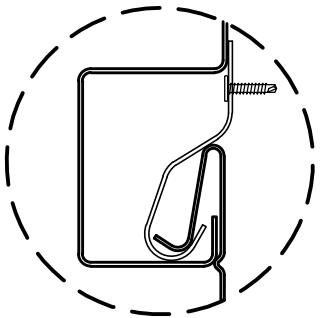
www.morincorp.com



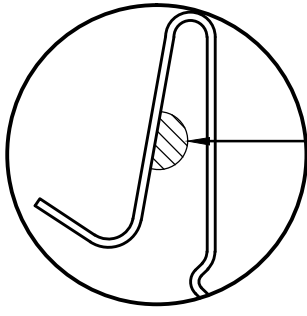
Morin supplies warranties covering material only. A painted finish warranty is not available on perforated panels regardless of base metal. Items not made by Morin such as sealants, fiberglass panels and fasteners carry no warranty, either expressed or implied. Please refer to the appropriate manufacturer and their product data sheets.

No metal panel manufacturer can guarantee the total elimination of oil canning, specific to light gauge cold formed metal. Be assured that we at Morin take every precaution during the selection of material and production of the metal panels to effectively minimize the effects of oil canning. Other factors contributing to oil canning can be improper installation and misalignment of the structural steel, even within the AISC standards. Oil canning from these conditions is not sufficient cause for automatic rejection of the material.

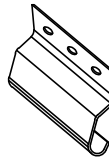
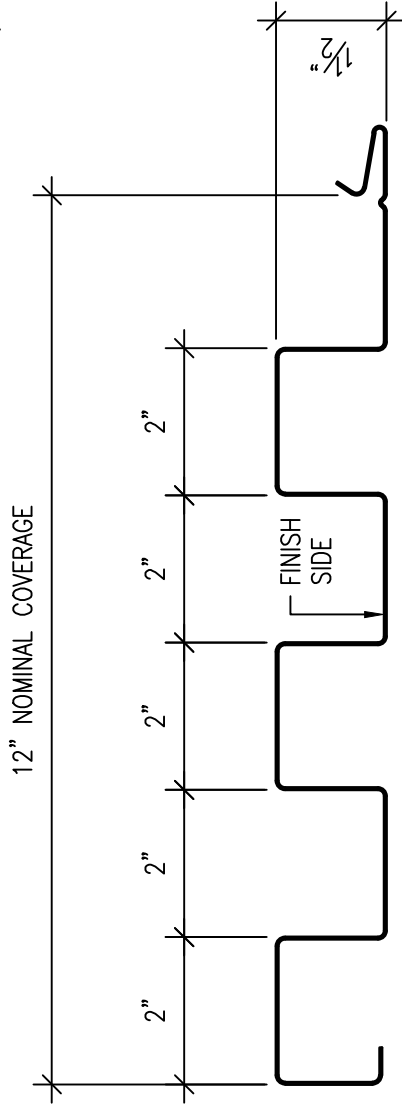
The information contained in this brochure and in the accompanying typical detail sheets is thought to be reliable and correct, but is subject to change without notice. Morin assumes no responsibility for engineering or design of any structure or sub-structure, whether such structure contains products manufactured by Morin or not. Typical details are meant to show the products of the seller in a manner which is representative of the way in which they are installed. It is the responsibility of the buyer or his or her architect or engineer to verify that any product is suitable for the conditions and use intended and that the products are compatible with any other material.



CLIP ENGAGEMENT



OPTIONAL FACTORY SEALANT
(BUTYL PLACEMENT)



MATRIX SERIES CLIP
GALVANIZED OR STAINLESS STEEL

NOTES:

1. ALL DIMENSIONS ARE NOMINAL. PANEL PROFILES MAY NOT BE TO SCALE.
2. DIMENSIONS AND ANGLES MAY VARY SLIGHTLY BETWEEN GAUGES.
3. THE CUSTOMER IS RESPONSIBLE FOR ALL INFORMATION ON THIS DOCUMENT.

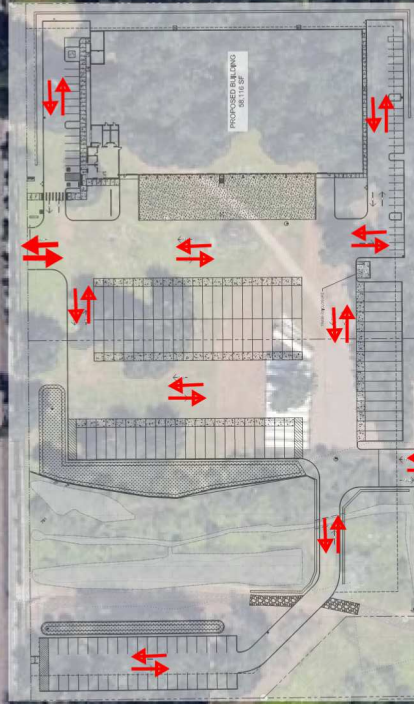
| | | | |
|----------------------------------|--|--|---------------|
| APPROVED BY: CUSTOMER: | JOB NO.: | MX 1.0 | |
| | COLOR: | JOB NAME: | P.N: M100 |
| BACKSIDE EXPOSED: | GAUGE: | SMOOTH <input type="checkbox"/> EMBOSSED <input type="checkbox"/> PERF. <input type="checkbox"/> | |
| BACKSIDE COLOR: | YES <input type="checkbox"/> NO <input type="checkbox"/> | INSTALLATION: HORIZ. <input type="checkbox"/> VERT. <input type="checkbox"/> OTHER <input type="checkbox"/> | |
| | | FACTORY CAULK: YES <input type="checkbox"/> NO <input type="checkbox"/> | REV.: 10/2017 |





SW DAY ROAD

SW COMMERCE CIRCLE



Northwest Geotech, Inc., Northwest Testing, Inc

Tapman Creek
Oregon Child Development Coalition

Wilsonville Carpet & Tile

Platt Electric Supply

Slicks Big Time BBQ

The Human Bean

Carl's Jr.

Chevron

Holiday Inn Portland- I-5 S (Wilsonville), an IHG

The Harver Company

Della Logistics

Rockmore International

Pearl Bakery

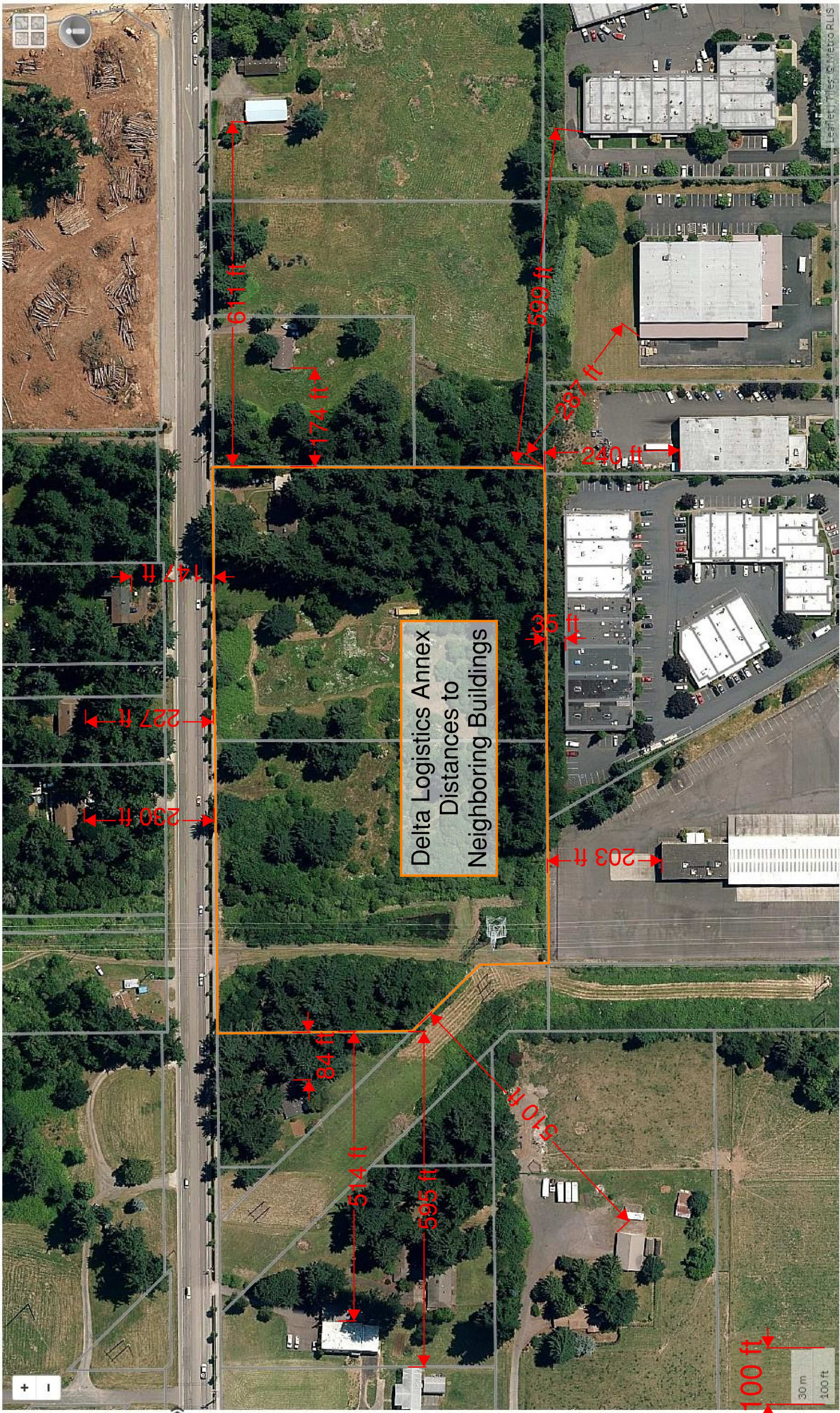
OptiMIM

Google Earth

lat 45.337611° lon -122.774085° elev 231 ft eye alt 3304 ft

1985

Delta Logistics Annex
Distances to
Neighboring Buildings



10653

ELECTRIC TRANSMISSION LINE EASEMENT

KNOW ALL MEN BY THESE PRESENTS, That Paul E. Doty and Grace E. Doty, husband and wife (hereinafter called "the Grantors," whether one or more than one), for and in consideration of the payment of the sum of Ten and No/100ths Dollars (\$10.00), the receipt of which is hereby acknowledged, hereby grant, sell and convey to Portland General Electric Company, an Oregon Corporation, (hereinafter called "the Grantee"), its successors and assigns, a perpetual easement and right of way over, upon and across the following described parcel of land situated in Washington County, Oregon, being a strip of land 125 feet in width, extending 62.5 feet on each side of a center line more particularly described as follows:

Beginning at a point in the north line of that certain tract of land in Section 2, Township 3 South, Range 1 West of the Willamette Meridian conveyed to Paul E. and Grace E. Doty by deed recorded in Book 397, Page 679, Washington County Deed Records, said point being S. 00° 17'E. 75.3 feet and N. 89°20'E. 162.50 feet from the Northwest corner of the northeast quarter of the Southwest quarter of said Section 2; running thence S. 0°17'40" E. parallel to and 62.5 feet East of the Bonneville Power Administration's right-of-way for a distance of 1819.0 feet; thence N. 89°45'20" E. parallel to and 62.5 feet North of the Bonneville Power Administration's right-of-way for a distance of 2373.3 feet to the west line of the R. H. Baldock Freeway, State Highway, all as shown on Drawing No. EB 5042 attached hereto which by reference thereto is made a part hereof.

Approved As To Description
C. E. [Signature]

The easement and right-of-way is further described as being 125 feet in width and that the east-west lay of said easement abuts and adjoins the existing Bonneville Power Administration's transmission right-of-way and Oregon City Substation on the north and the north-south lay of said easement abuts and adjoins the existing Bonneville Power Administration transmission right-of-way on the east.

TO HAVE AND TO HOLD the above-described easement and right-of-way unto the Grantee, its successors and assigns, except as otherwise restricted herein, together with the present right to top, limb or fell all growing and dead trees and snags (said trees and snags hereinafter collectively called "danger trees") located on land owned by the Grantors, adjacent to the above-described right-of-way, which danger trees will be determined by the Grantee.

19653

In addition the Grantee shall have the future right to top, limb or fell all growing and dead trees and snags which shall in Grantee's estimation become danger trees in the future. In the event that Grantee exercises such future danger tree rights Grantee shall pay the owner of said future danger trees, their market value on the day they are cut, such payment to be made within a reasonable time after they have been so cut.

Said easement and right-of-way shall be for the following purposes, namely: the perpetual right to enter upon and to erect, maintain, repair, rebuild, operate and patrol electric power transmission lines, structures and appurtenant signal lines, including the right to erect such poles, towers, transmission structures, wires, cables, supports and appurtenances as are necessary thereto, together with the present and future right to clear said right-of-way and keep the same clear of brush, timber and fire hazards, including the right to restrict the growth of trees and brush on said right-of-way by the use of chemical sprays, provided, however, that pasture or cultivated lands shall not be sprayed and that fire hazards shall not be interpreted to include any growing crops other than non-nursery stock, trees and brush. Provided, however, that the said easement and right-of-way is for the exclusive and sole use of the Grantee and/or its successors or assigns standing in the Grantee's place and stead. Joint use of said easement and right-of-way by the Grantee and other persons, parties or entities is prohibited, except as otherwise stated herein.

Except for the rights herein granted by this easement to the Grantees its successor and assigns, the grantors reserve and except to themselves, their heirs and assigns, the sole and exclusive ownership and use of all lands within the said right-of-way which includes but is not limited to the cultivation of all land under and around the Grantee's present and future lines and structures, together with but not limited to the use, ownership and maintenance of private and public roadways, driveways and parking areas, except Grantors, their heirs and assigns shall not build or erect any structure that will exceed fourteen (14) feet in height, and said structure and use shall comply with all duly recognized and required safety regulations, and such ownership and use shall not interfere with the expressed easement of the Grantee.

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Except as otherwise agreed herein, with the exception of nursery stock and marketable timber, title to all brush, non-marketable timber, or structures existing upon the right-of-way shall vest immediately in the Grantee. All future danger trees cut pursuant to the terms hereof shall remain the property of the Grantor up to the date of their cutting, whereupon the Grantee shall thereafter remove same from the premises within a reasonable time and at Grantee's sole expense unless otherwise agreed.

It is hereby agreed that the purchase price named herein shall be accepted by the Grantors as full compensation for all damages incidental to the exercise of said easement rights except:

(a) Damage occasioned through the damage, destruction or necessary removal of present and future nursery stock owned by the Grantors, their lessees, heirs or assigns, in and about said easement and right-of-way.

(b) Damage arising by way of the Grantees extending guys, anchors, structures, lines or any other of Grantee's property or rights beyond the easement and right-of-way as stated herein.

(c) Damage to danger trees in the ownership of the Grantor, his heirs, assigns or lessees.

(d) Damage suffered by the Grantors, his lessees, heirs and assigns upon their property or property interests, exclusive of the rights given Grantee herein, through negligent or intentional act or acts of omission by the Grantee, its successors, assigns, agents and servants.

The Grantee shall purchase any and all nursery stock that is damaged, destroyed or by necessity requires removal by reason of the Grantee's exercise of said easements. The Grantors and the Grantee shall jointly determine the nursery stock which, of necessity, requires removal and purchase. If the Grantors and the Grantee cannot jointly determine the nursery stock which, of necessity, requires removal, they shall select a disinterested qualified arbitrator to make such determination. If the

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Grantors and the Grantee cannot agree within five (5) days upon such arbitrator, then the presiding Judge of the Circuit Court for the County of Washington shall make the appointment. The decision of the arbitrator shall be final. The cost of such nursery stock will be determined in the same manner and method as is presently used by the Oregon State Highway Commission in similar circumstances whereby the Grantors shall cause such stock to be fully inventoried and itemized and such inventory presented to the Grantee for approval and payment within ninety (90) days from the taking or damage of such stock.

The Grantors agree to allow the Grantee reasonable use of the existing private roadway now within the composite area owned by the Grantors and running from Boones Ferry Road, across the Grantor's land and to the subject right-of-way, however, only for that period of time during the initial construction and erection of the Grantee's transmission structures and related activity. The Grantors make no representation or warranties of the fitness of such roadway, and the Grantee takes the use thereof as it finds it. The said Grantee's use will not interfere with the Grantor's present use and the Grantee will maintain and restore the said roadway to a condition equal to that in which it is found within a reasonable time after completion of the initial construction.

If the Grantee, its successors and assigns, shall fail to use said right-of-way for the purposes above mentioned for a continuous period of five years after construction of said power lines, then and in that event this right-of-way and easement shall terminate and all rights and privileges granted hereunder shall revert to the Grantors, their heirs and assigns, and the Grantee, its successors and assigns shall remove all property existing within said easement and right-of-way by virtue of said activities of the Grantee, its successors and assigns.

The Grantors hereby warrant that they are possessed of a marketable title to the property covered by this easement, and have the right to grant the same.

Page 4 - Easement

BOOK 492 PAGE 14

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The Grantors, for themselves and their heirs and assigns, covenant to and with the Grantee, its successors and assigns, that the Grantee, its successors and assigns, shall peaceably enjoy the rights and privileges herein granted.

IN WITNESS WHEREOF, the Grantors have caused this easement to be executed this 22nd day of July, 1963.

Paul E. Doty (SEAL)
(Paul E. Doty)
Grace E. Doty (SEAL)
(Grace E. Doty)

STATE OF OREGON)
County of Washington) ss.

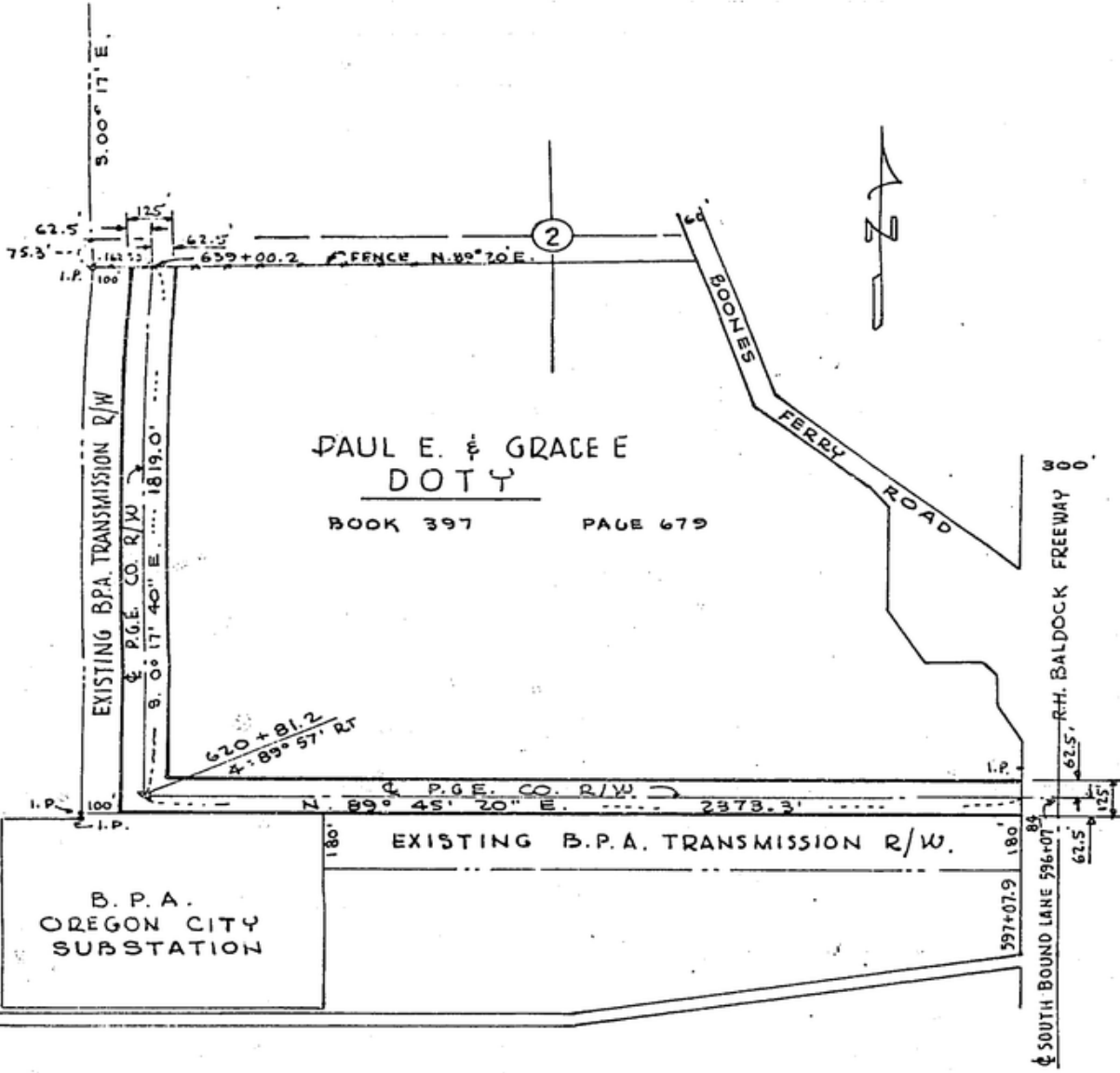
On this 22nd day of July, 1963, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Grace E. Doty and Paul E. Doty to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged that they executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my notarial seal this, the day and year in this instrument first written.



Lillian B. Elliott
Notary Public for Oregon
My Commission Expires: 12-11-63

10653



PORTLAND GENERAL ELECTRIC CO.
 PORTLAND, OREGON

TO ACCOMPANY TRANSMISSION EASEMENT
 PAUL E. & GRACE E. DOTY,
 SEC. 2 T. 35. R. 1 W. W. M.
 WASHINGTON COUNTY, ORE.

SCALE 1" = 400' DATE 2-25-63
 DRAWN BY J.E.W. | TRACED BY F.W.M. | CHECKED J.T.W.
 APPROVED *W.E.E.* | APPROVED *RDP*
 DRG. NO. EB 5042

Filed for record July 24 1963 at 3:35 P.M.
 ROGER THOMSEN, County Clerk
 By *J. Cop* Deputy

BOOK 492 PAGE 16 WA-60