Village at 78th Street Site Plan

Located in the SW 1/4 Of Section 02, Township 2N, Range 1E, W.M.,
Clark County, Washington

EXISTING CONDITIONS LEGEND

LINETYPES

- ST — STORM SEWER LINE
- OHP — OVER HEAD POWER LINE
- W — WATER LINE LOCATE
- SA — SANITARY SEWER PIPE
- T — TELECOMM UTILITY
- E — UNDERGROUND ELECTRIC
- FENCE
- CENTERLINE
- RIGHT OF WAY
- EDGE OF PAVEMENT
- CURB LINE
- EDGE OF GRAVEL
- SIDEWALK
- PAVEMENT STRIPING
- LOT LINE
- PROPERTY BOUNDARY
- 100 — CONTOUR LINE

SYMBOLS

- CATCH BASIN
- STORM MANHOLE
- CURB INLET
- FIRE HYDRANT
- WATER VALVE
- SAN SEWER MH
- UTILITY POLE
- EXTG WELL
- TEL PEDESTAL
- GUY WIRE
- MAILBOX
- EXTG TREES

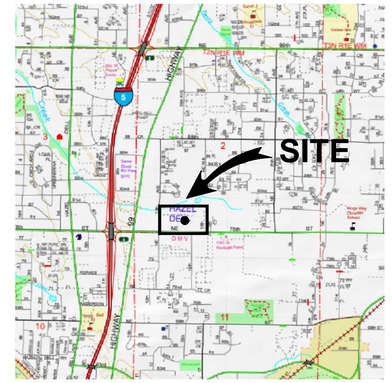
Sheet Index

1. Existing Conditions
2. Preliminary Site Plan
3. Detail Sheet
4. Photometric Plan
5. Landscape Plan

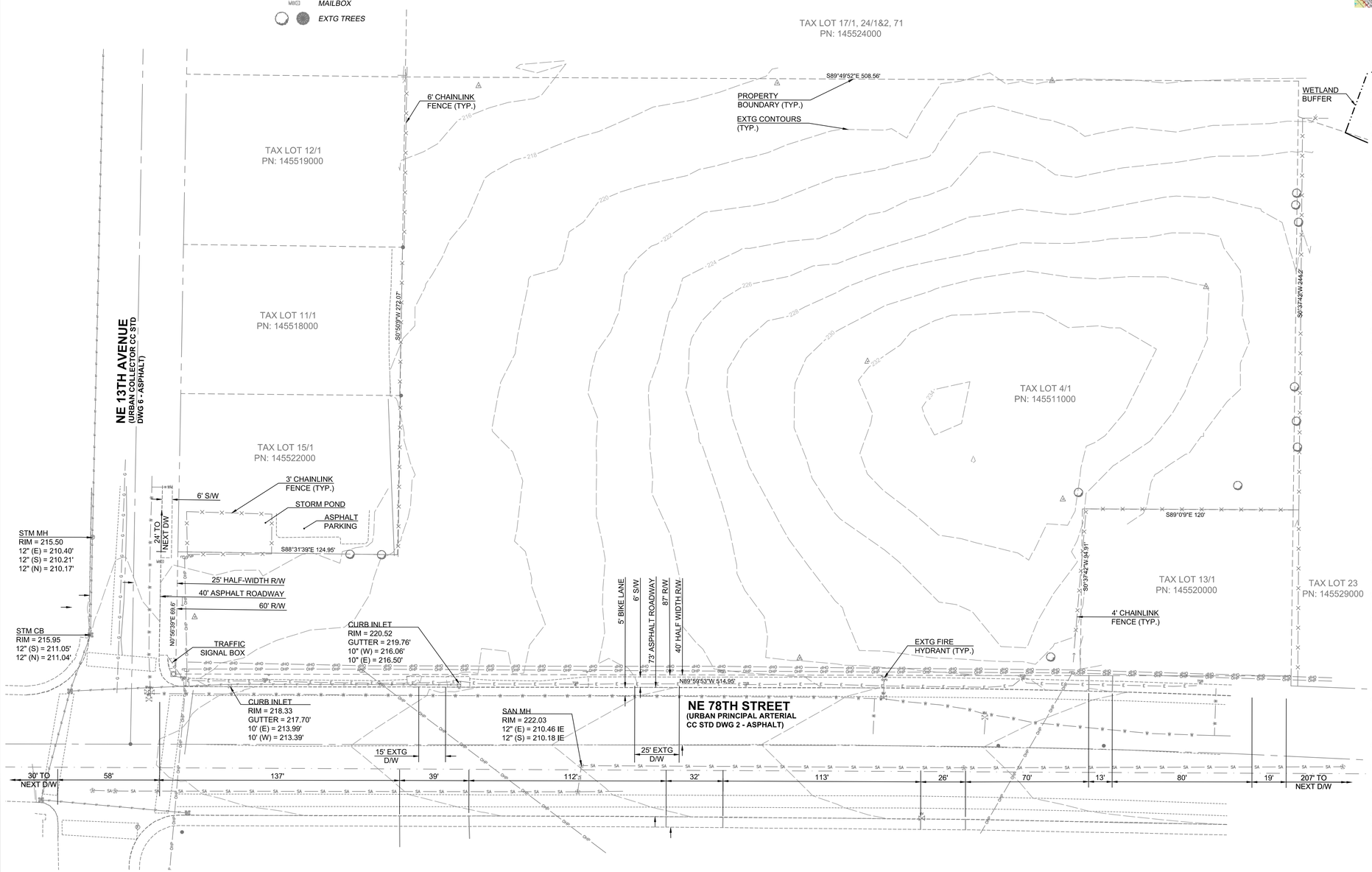
Scale 1" = 30'

30 15 0 30

N



VICINITY MAP
NOT TO SCALE



PROJECT NOTES

APPLICANT:
Ginn Group, LLC
Contact: Lindsey Sonnen
502 NE 72nd Street
Vancouver, WA 98665
PH: (360) 768-5028
EMAIL: lindsey@ginngrp.com

OWNER:
Nelson Wayne W ETAL
1200 Fort Vancouver Way
Vancouver, WA 98663

CONTACT:
PLS Engineering
Travis Johnson, PE
604 W. Evergreen Blvd.
Vancouver, WA 98660
PH: (360) 944-6519
EMAIL: pm@plsengineering.com

SITE ADDRESS:
1308 NE 78th St
Vancouver, WA 98665
Parcel Number: 145511000

EXISTING LOT SIZE:
145511000: 170,089 sq. ft. (3.9 AC)
Present Use: Vacant Land

ZONING:
This site is within the Community Commercial zone of Clark County (CC). The comprehensive plan designation for the site is C. The project is also within the Highway 99 Overlay District with an Activity Center designation (Totem Town Center).

TRANSPORTATION:
The nearest bus stop is located across the southwest border of the site along NE 78th Street near the intersection of 78th & 13th going eastbound. The westbound route is approximately 250' east from the southeast corner of the site along NE 78th Street.

WATER AND SEWER:
Public water and sanitary services are located in both NE 78th Street and NE 13th Ave.

Water Purveyor = Clark Public Utilities
Sewer Purveyor = Clark Regional Wastewater District

The nearest fire hydrant is located on the south border of the site approximately 112' west from the southeast corner.

There are no known wells or septic systems onsite or within 100' of the site.

ENVIRONMENTAL CONSTRAINTS:
There are no known critical areas on site. There are no water courses or bodies, no areas within 100-year floodplain, no designated shoreline areas, no landslide or erosion hazard areas, no significant wildlife or vegetation, no known significant historic resources onsite and no wetlands located onsite.

PLS ENGINEERING

Existing Conditions Plan For:

Village at 78th Street Site Plan

A Site Located In Clark County, Washington

Engineering - Surveying - Planning | 604 W. Evergreen Blvd., Vancouver, WA 98660 | PH (360) 944-6519 | Fax (360) 944-6539

Revisions

1	11/5/2021	
2		
3		
4		
5		
6		

TRAVIS G. JOHNSON
STATE OF WASHINGTON
42929
REGISTERED
PROFESSIONAL ENGINEER
10-28-21

Project No. 3294	
SCALE:	H: 1" = 30' V: N/A
DESIGNED BY:	VVP
DRAFTED BY:	VVP
REVIEWED BY:	TGJ

Village at 78th Street Site Plan

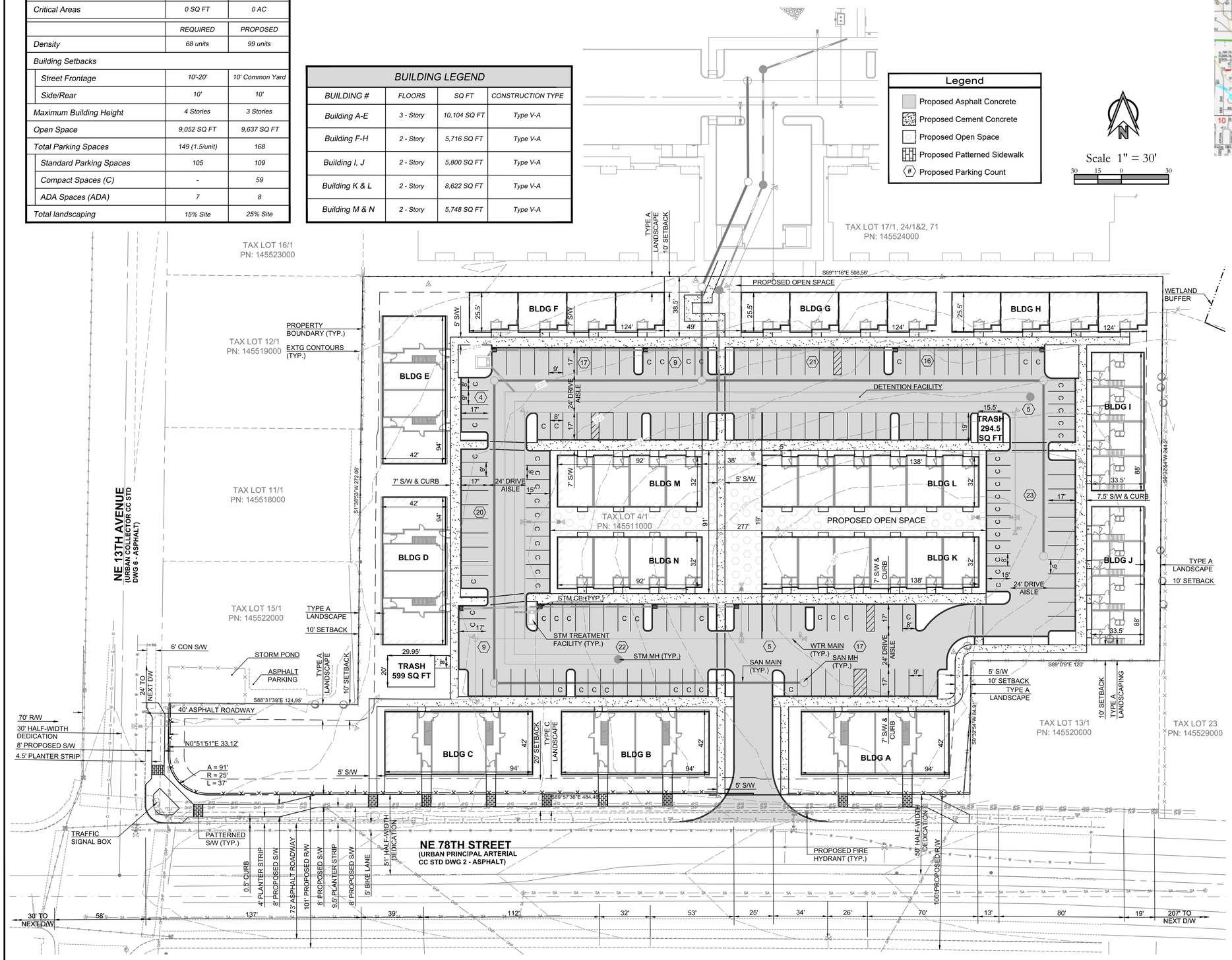
Located in the SW 1/4 Of Section 02, Township 2N, Range 1E, W.M.,
Clark County, Washington

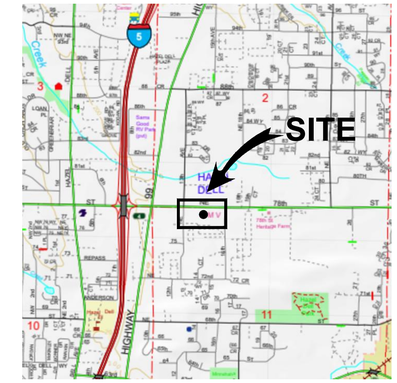
SITE STATISTICS		
ZONE: CC		
Gross Site Area	170,069 SQ FT	3.9 AC
Critical Areas	0 SQ FT	0 AC
	REQUIRED	PROPOSED
Density	68 units	99 units
Building Setbacks		
Street Frontage	10'-20'	10' Common Yard
Side/Rear	10'	10'
Maximum Building Height	4 Stories	3 Stories
Open Space	9,052 SQ FT	9,637 SQ FT
Total Parking Spaces	149 (1.5/unit)	168
Standard Parking Spaces	105	109
Compact Spaces (C)	-	59
ADA Spaces (ADA)	7	8
Total landscaping	15% Site	25% Site

BUILDING LEGEND			
BUILDING #	FLOORS	SQ FT	CONSTRUCTION TYPE
Building A-E	3 - Story	10,104 SQ FT	Type V-A
Building F-H	2 - Story	5,716 SQ FT	Type V-A
Building I, J	2 - Story	5,800 SQ FT	Type V-A
Building K & L	2 - Story	8,622 SQ FT	Type V-A
Building M & N	2 - Story	5,748 SQ FT	Type V-A

Legend
- Proposed Asphalt Concrete
- Proposed Cement Concrete
- Proposed Open Space
- Proposed Patterned Sidewalk
- (#) Proposed Parking Count

Scale 1" = 30'





VICINITY MAP
NOT TO SCALE

PROJECT NOTES

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SITE ADDRESS:
1308 NE 78th St
Vancouver, WA 98665
Parcel Number: 145511000

EXISTING LOT SIZE:
145511000: 170,089 sq. ft. (3.9 AC)
Present Use: Vacant Land

PROPOSAL:
The applicant is proposing a 99 unit apartment complex with 59 standard apartment units and 40 townhouse style apartment units. A total of 14 buildings are proposed. The western ground floor unit in building A is proposed to be a leasing office serving the apartment complex.

ZONING:
This site is within the Community Commercial zone of Clark County (CC). The comprehensive plan designation for the site is C. The project is also within the Highway 99 Overlay District with an Activity Center designation (Totem Town Center). Residential uses are allowed within the Activity Center designation.

TRANSPORTATION:
The applicant is proposing an unrestricted driveway access from NE 78th Street. This driveway is approximately 350' from the intersection of NE 13th Ave and NE 78th Street. The sidewalks on NE 13th and NE 78th Street are proposed to be removed and replaced with a 8' wide detached sidewalk.

The nearest bus stop is located across the southwest border of the site along NE 78th Street near the intersection of 78th & 13th going eastbound. The westbound route is approximately 250' east from the southeast corner of the site along NE 78th Street.

WATER AND SEWER:
A water main is proposed to loop from an existing main in NE 13th Ave to a proposed water main located on the site to the north.
The proposed public sewer connection is located on the site to the north that is currently under development.

ENVIRONMENTAL CONSTRAINTS:
There are no proposed impacts to critical areas. An offsite wetland is located offsite to the NE and the applicable buffer does not extend onto the subject site.

PLS ENGINEERING

Preliminary Site Plan For:
Village at 78th Street Site Plan
A Site Located In Clark County, Washington

Engineering - Surveying - Planning | 604 W. Evergreen Blvd., Vancouver, WA 98660 | PH (360) 944-6519 | Fax (360) 944-6539

Revisions

1	11/5/2021
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TRAVIS G. JOHNSON
STATE OF WASHINGTON
45929
REGISTERED PROFESSIONAL ENGINEER
10-28-21

Project No. 3294	
SCALE:	H: 1" = 30' V: N/A
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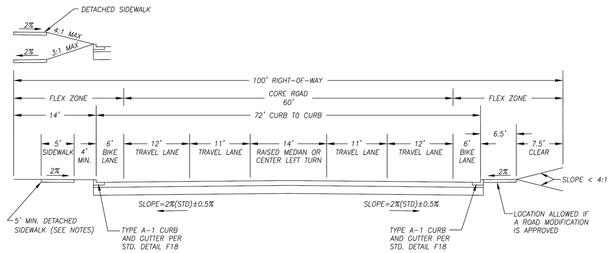


CONVENTIONAL CONSTRUCTION		
AASHTO SOIL TYPE	ASPHALT THICKNESS	BASE ROCK THICKNESS
A-1	0.55'	0.40'
A-2	0.55'	0.55'
A-3	0.55'	0.80'
A-4	0.60'	1.00'
A-5	0.60'	1.35'
A-6	0.60'	1.80'
A-7	0.90'	1.45'
OTHER	NO SECTION	ESTIMATED

THICK ASPHALT CONSTRUCTION		
AASHTO SOIL TYPE	ASPHALT THICKNESS	BASE ROCK THICKNESS
A-1	0.60'	0.25'
A-2	0.65'	0.25'
A-3	0.72'	0.25'
A-4	0.82'	0.25'
A-5	0.92'	0.25'
A-6	1.05'	0.25'
A-7	1.25'	0.25'
OTHER	NO SECTION	ESTIMATED

NOTES:

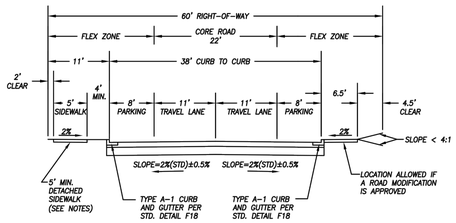
1. SIDEWALK SHALL BE DETACHED. MAKE IT MEANDERING IF POSSIBLE.
2. SIDEWALKS MAY BE ALLOWED WITHIN EASEMENTS ONLY WHERE IT IS DEMONSTRATED THAT SUCH SIDEWALKS CAN NOT BE LOCATED WITHIN THE ESTABLISHED PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY TRACT DUE TO NATURAL FEATURES (E.G., SIGNIFICANT TREES, ROCK OUTCROPPINGS, STEEP TOPOGRAPHY, ETC.) THAT SHOULD BE PRESERVED, OR IRREGULAR LOT CONFIGURATION.
3. WIDER SIDEWALKS MAY BE REQUIRED BY REVIEWING AUTHORITY UNDER CERTAIN CIRCUMSTANCES.
4. THIS SECTION USED WHEN A BIKEWAY IS SHOWN ON THE CLARK COUNTY TRAILS & BIKEWAYS SYSTEM MAP.
5. SUBGRADE REINFORCEMENT GEOTEXTILES SHALL BE INSTALLED OVER ALL A-6, A-7 SOILS PRIOR TO CONSTRUCTING THE BASE AND SURFACING.
6. THE PAVEMENT STRUCTURE THICKNESSES IDENTIFIED FOR THESE SOIL TYPES ARE REQUIRED UNLESS A SITE SPECIFIC PAVEMENT DESIGN IS DONE. THE TOTAL PAVEMENT STRUCTURE SHALL NOT EXCEED 2.5 FEET.
7. ASPHALT CONCRETE FOR ALL PRINCIPAL ARTERIALS SHALL BE WSDOT HMA CL ½" PG 64-22 OR EQUIVALENT.
8. EITHER CONVENTIONAL OR THICK ASPHALT CONSTRUCTION IS ALLOWED.
9. ROADWAY SLOPE OUTSIDE LISTED RANGE ALLOWED WITH APPROVAL FOR FRONTAGE/MATCHING SITUATIONS.
10. THE SUBGRADE AND CRUSHED SURFACING MATERIALS SHALL BE COMPACTED PER WSDOT STANDARDS.
11. FEATURES WITHIN CORE ROAD AND FLEX ZONE ARE SUBJECT TO CCC 40.350.030(B)(3) AND TABLE CCC 40.350.030-2.
12. STORMWATER LOW IMPACT DEVELOPMENT (LID) FEATURES IN THE RIGHT-OF-WAY ARE SUBJECT TO CCC 40.350.030(B)(3) AND TABLE CCC 40.350.030-2.

Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

URBAN PRINCIPAL ARTERIAL (Pr-4cb)
4-LANE W/ CENTER TURN & BIKE LANES

APPROVED
COUNTY ENGINEER — DATE 09/18/13

DRAWING 2
DESIGNED
DRAWN
DATE 09/18/13



CONVENTIONAL CONSTRUCTION		
AASHTO SOIL TYPE	ASPHALT THICKNESS	BASE ROCK THICKNESS
A-1	0.45'	0.45'
A-2	0.45'	0.45'
A-3	0.45'	0.55'
A-4	0.45'	0.85'
A-5	0.45'	1.15'
A-6	0.45'	1.55'
A-7	0.50'	2.00'
OTHER	NO SECTION	ESTIMATED

THICK ASPHALT CONSTRUCTION		
AASHTO SOIL TYPE	ASPHALT THICKNESS	BASE ROCK THICKNESS
A-1	0.52'	0.25'
A-2	0.52'	0.25'
A-3	0.55'	0.25'
A-4	0.62'	0.25'
A-5	0.72'	0.25'
A-6	0.82'	0.25'
A-7	1.00'	0.25'
OTHER	NO SECTION	ESTIMATED

NOTES:

1. SIDEWALK SHALL BE DETACHED. MAKE IT MEANDERING IF POSSIBLE.
2. SIDEWALKS MAY BE ALLOWED WITHIN EASEMENTS ONLY WHERE IT IS DEMONSTRATED THAT SUCH SIDEWALKS CAN NOT BE LOCATED WITHIN THE ESTABLISHED PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY TRACT DUE TO NATURAL FEATURES (E.G., SIGNIFICANT TREES, ROCK OUTCROPPINGS, STEEP TOPOGRAPHY, ETC.) THAT SHOULD BE PRESERVED, OR IRREGULAR LOT CONFIGURATION.
3. WIDER SIDEWALKS MAY BE REQUIRED BY REVIEWING AUTHORITY UNDER CERTAIN CIRCUMSTANCES.
4. ALTERNATE BIKE LANE SECTION USED WHEN A BIKEWAY IS SHOWN ON THE CLARK COUNTY TRAILS & BIKEWAYS SYSTEM MAP.
5. SUBGRADE REINFORCEMENT GEOTEXTILES SHALL BE INSTALLED OVER ALL A-6, A-7 SOILS PRIOR TO CONSTRUCTING THE BASE AND SURFACING.
6. THE PAVEMENT STRUCTURE THICKNESSES IDENTIFIED FOR THESE SOIL TYPES ARE REQUIRED UNLESS A SITE SPECIFIC PAVEMENT DESIGN IS DONE. THE TOTAL PAVEMENT STRUCTURE SHALL NOT EXCEED 2.5 FEET.
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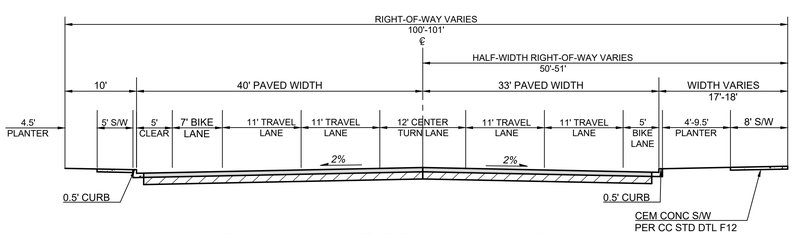
Department of Public Works
CLARK COUNTY WASHINGTON
proud past, promising future

URBAN COLLECTOR (C-2)
2-LANE

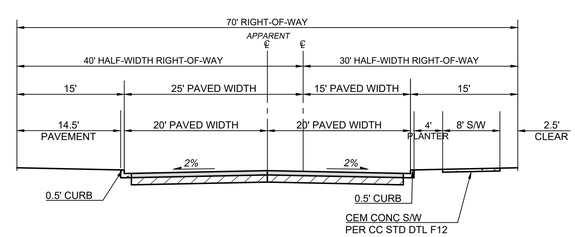
APPROVED
COUNTY ENGINEER — DATE 03/23/16

DRAWING 6
DESIGNED
DRAWN
DATE 03/23/16



Proposed NE 78th Avenue Section

NTS



Proposed NE 13th Avenue Section

NTS

PLS ENGINEERING

Detail Sheet For:

Village at 78th Street

A Site Located In Clark County, Washington

Engineering - Surveying - Planning | 604 W. Evergreen Blvd., Vancouver, WA 98660 | PH (360) 944-6519 | Fax (360) 944-6539

Revisions

1	11/05/2021
2	
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4	
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TRAVIS G. JOHNSON — STATE OF WASHINGTON — 45923 — REGISTERED PROFESSIONAL ENGINEER

10-28-21

Project No. 3294	
SCALE:	H: N/A V: N/A
DESIGNED BY:	VVP
DRAFTED BY:	VVP
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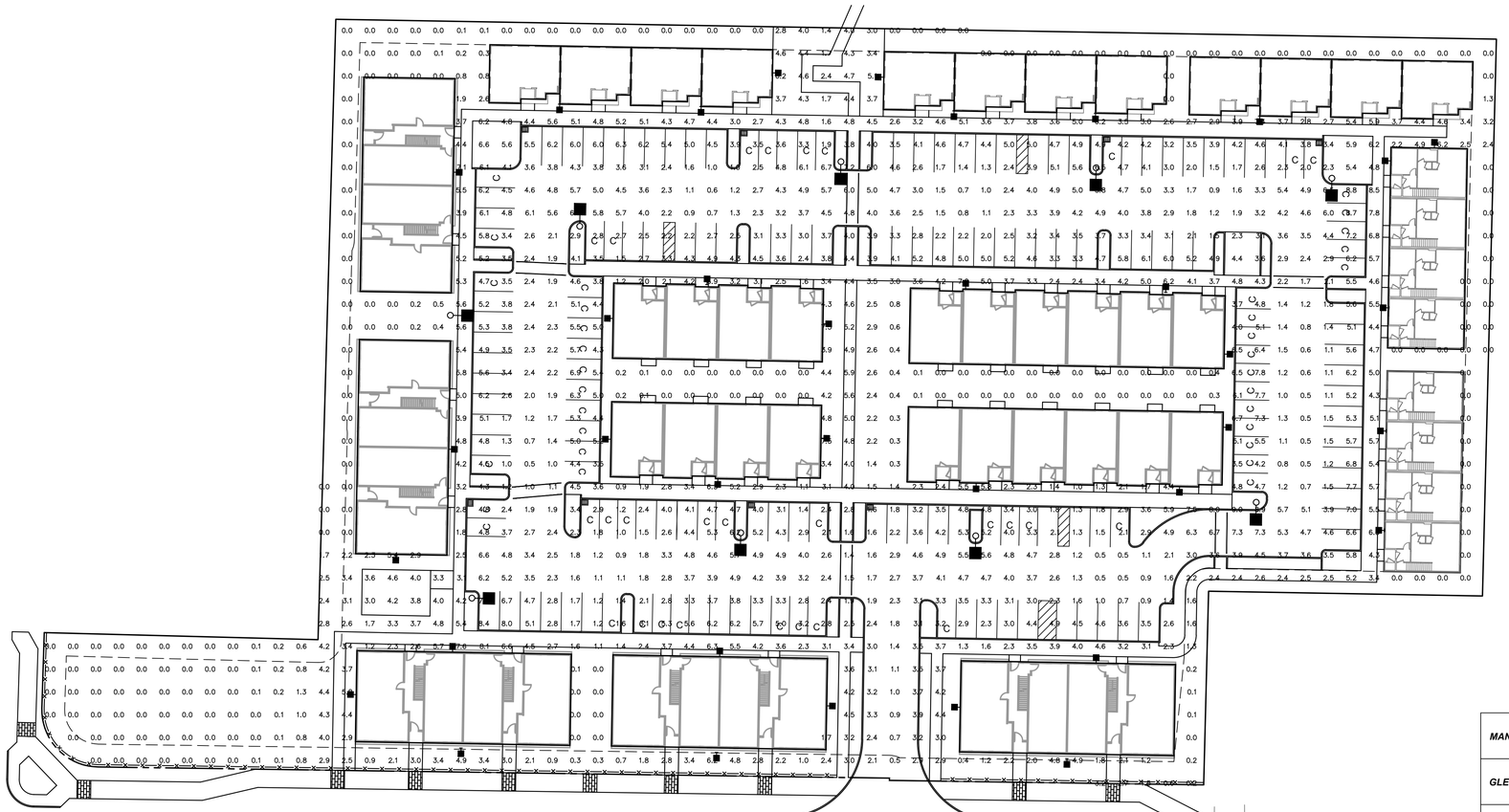

Village at 78th Street Site Plan

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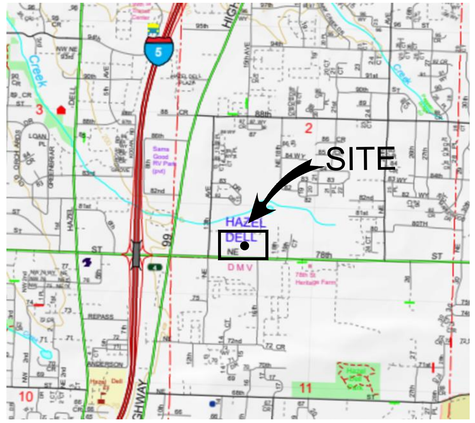


VICINITY MAP
NOT TO SCALE

MANUFACTURER AND CATALOG NUMBER	SYMBOL	QTY	WATTAGE
GLEON-AF-03-LED-E1-SL4-HSS		9	166
MCGRAW-EDISON IST-AF-1200-LED-E1-SL2		36	66.2

Scale 1" = 30'

30 15 0 30

McGraw-Edison

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting
STANDARD ARM MOUNT:
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty
Five-year warranty.

GLEON
GALLEON LED

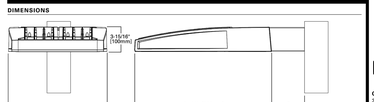
1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

LumenSafe Technology CLICK HERE

WaveLinx

DIMENSIONS

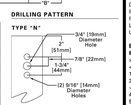


DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (548mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. **2.** EPA calculated with optional arm length.

DRILLING PATTERN



CERTIFICATION DATA
3G Vibration Rated
DesignLights Consortium® Qualified*
IP66 Rated
ISO 9001
LM79 / LM80 Compliant
UL/cUL Wet Location Listed

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V, 480V 60Hz
40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

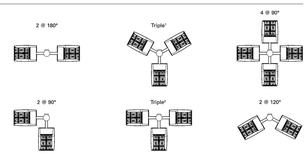
*www.designlights.org

TD500020EN
July 23, 2019 2:40 PM

GLEON GALLEON LED

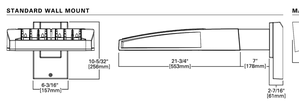
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

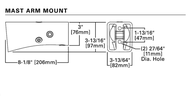


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. **2** Round poles are 3 @ 90°.

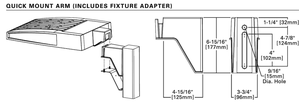
STANDARD WALL MOUNT

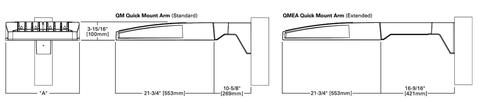


MAST ARM MOUNT



QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)





QUICK MOUNT ARM DATA

Number of Light Squares [1,2]	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 *	21-5/8" (548mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

NOTES: 1 QM option available with 1-8 light square configurations. **2** QMEA option available with 1-8 light square configurations. **3** QMEA arm to be used when mounting two fixtures at 90° on a single pole.

Eaton
1121 Highway 76 South
Ashland City, TN 37015
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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McGraw-Edison

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal component to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for areas surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics
Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

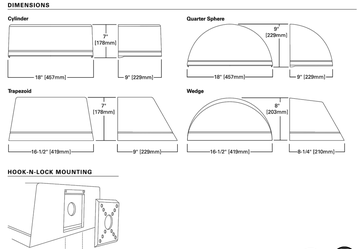
Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

DIMENSIONS



HOOK-N-LOCK MOUNTING

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www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

ISC/ISS/IST/ISW
IMPACT ELITE LED

1 LightSquare
Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

*www.designlights.org

TD514030EN
July 23, 2019 4:13 PM

ISC/ISS/IST/ISW IMPACT ELITE LED

POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)					Trapezoid (IST) and Wedge (ISW)				
Drive Current (mA)		350	450	600	900	1000	1200	350	450	600	900	1000	1200
Power (Watts)	120-277V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V	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													
T2	Lumens	2,390	3,001	3,915	4,901	5,793	6,592	2,555	3,208	4,185	5,239	6,193	7,047
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
T3	Lumens	2,440	3,063	3,996	5,001	5,912	6,728	2,561	3,216	4,195	5,251	6,207	7,063
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
T4FT	Lumens	2,414	3,031	3,955	4,950	5,851	6,658	2,589	3,250	4,240	5,308	6,274	7,139
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens	2,441	3,065	3,998	5,004	5,918	6,732	2,557	3,211	4,189	5,244	6,198	7,053
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens	2,309	2,899	3,782	4,734	5,596	6,369	2,469	3,100	4,044	5,062	5,983	6,809
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SL3	Lumens	2,271	2,851	3,719	4,656	5,503	6,262	2,419	3,039	3,963	4,961	5,864	6,673
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B0-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SL4	Lumens	2,158	2,710	3,535	4,425	5,230	5,951	2,286	2,870	3,744	4,686	5,539	6,303
	BUG Rating	B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B0-U1-G1	B0-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens	2,036	2,555	3,334	4,174	4,934	5,614	2,204	2,767	3,610	4,519	5,341	6,078
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW	Lumens	2,435	3,057	3,987	4,992	5,900	6,715	2,521	3,166	4,130	5,170	6,111	6,954
	BUG Rating	B1-U0-G0	B2-U0-G0	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B1-U1-G1	B2-U1-G1	B2-U1-G1	B2-U1-G1	B2-U1-G1	B3-U1-G1

LUMEN MAINTENANCE

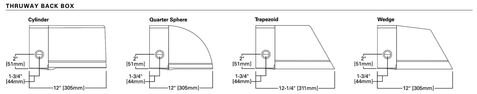
Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

THRUWAY BACK BOX



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July 23, 2019 4:13 PM

PLS ENGINEERING

Photometrics Plan For:

Village at 78th Street Site Plan

A Site Located In Clark County, Washington

Engineering - Surveying - Planning | 604 W. Evergreen Blvd., Vancouver, WA 98660 | PH (360) 944-6519 | Fax (360) 944-6539

Revisions

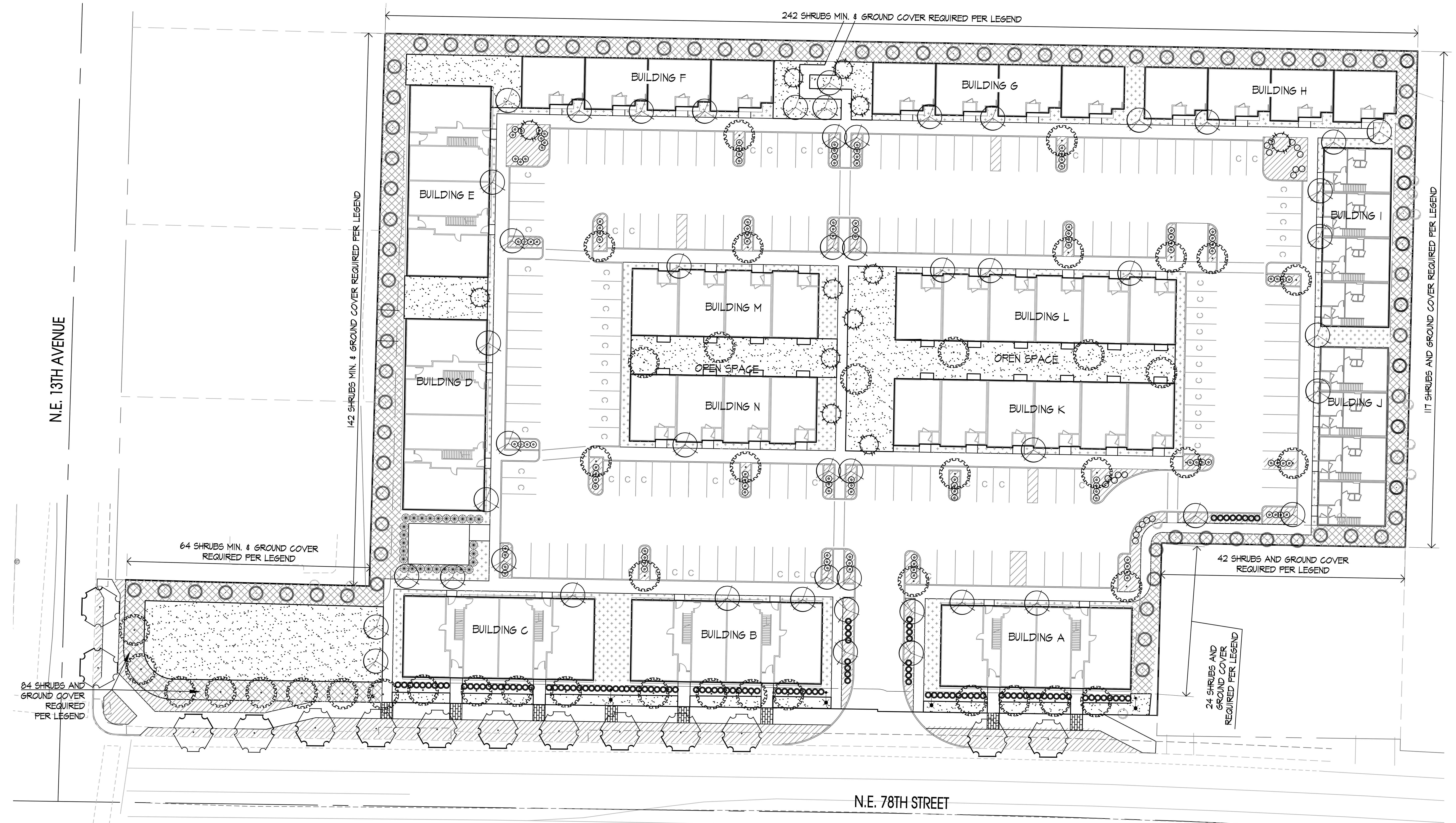
1	2	3	4	5	6
11/05/2021					

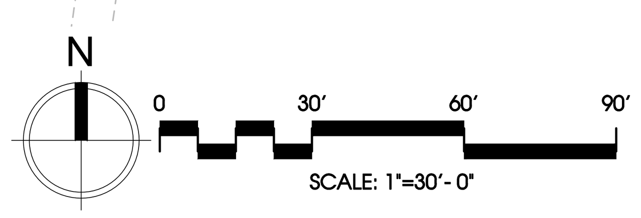
TRAVIS G. JOHNSON
STATE OF WASHINGTON
45929
REGISTERED PROFESSIONAL ENGINEER
10-28-21

Project No. 3294	
SCALE:	H: 1" = 30' V: N/A
DESIGNED BY:	VVP
DRAFTED BY:	VVP
REVIEWED BY:	TGJ

4

5



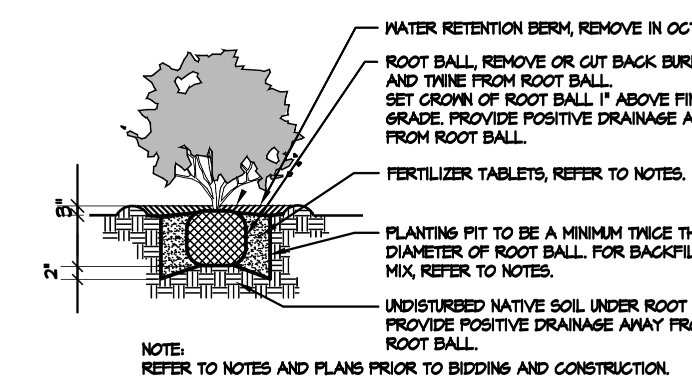


IRRIGATION NOTE

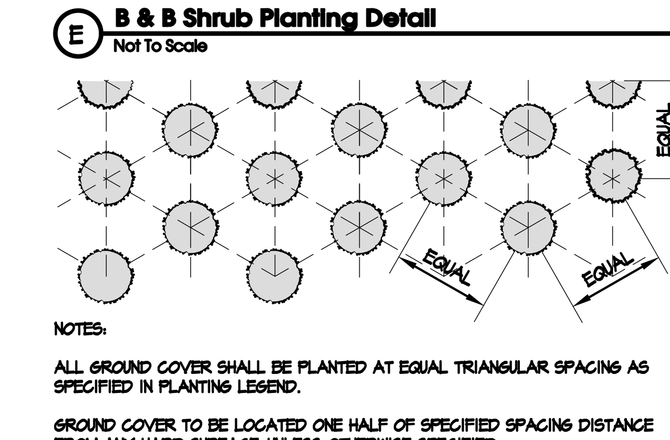
ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC DRIP AND/OR SPRAY IRRIGATION SYSTEM. REFER TO CIVIL ENGINEERING PLANS FOR WATER SOURCE.

PLANT LEGEND

SYMBOL	BOTANICAL / COMMON NAME	SIZE	QUANTITY
TREES			
	ACER BUERGERANUM TRIDENT MAPLE STREET TREE	2" cal. min.	14
	CALOCEDRUS DECURRENS INCENSE CEDAR	6' HT. min.	95
	CARPINUS BETULUS 'FASTIGIATA' PYRAMIDAL EUROPEAN HORNBEAM	2" cal. min.	43
	CHAMAECYPARIS NOOTKATENSIS WEEPING ALASKAN CEDAR	6' HT. min.	12
	PYRUS CALLERYANA 'CAPITAL' CAPITAL PEAR	2" cal. min.	52
	THUJA OCCIDENT. 'EMERALD GREEN' EMERALD GREEN ARBORVITAE	6' HT. min.	27
SHRUBS			
	ARBUTUS UNEDO 'COMPACTA' DWARF STRAWBERRY TREE	3 GAL.	20
	ILEX X MESERVEAE 'BLUE BOY' BLUE BOY HOLLY	3 GAL.	116
	KALMIA LATIFOLIA 'ELF' ELF MOUNTAIN LAUREL	3 GAL.	121
GROUNDCOVERS			
	ARCTOSTAPHYLOS UVA URSI 'MASS.' MASSACHUSETTS KINIICKINNICK	24" o.c.	
	TURF, SEED OR SOD PER OWNER		
	LANDSCAPE PER OWNER		
	BUFFER PLANTING, SEE PLAN FOR QUANTITIES SHRUBS (2 GAL. MIN.) TO INCLUDE: CORNUS KELSEYI / KELSEY'S DWARF DOGWOOD, MAHONIA AQUIFOLIUM 'COMPACTA' / COMPACT OREGON GRAPE, & VIBURNUM DAVIDII / DAVID VIBURNUM. GROUND COVER (1 GAL, 24" O.C. MIN.) FOR REMAINING AREA TO INCLUDE: ARCTOSTAPHYLOS /KINNICKINICK & RUBUS CALYCINOIDES / CREEPING RASPBERRY.		



(E) **B & B Shrub Planting Detail**
Not To Scale — SECTION

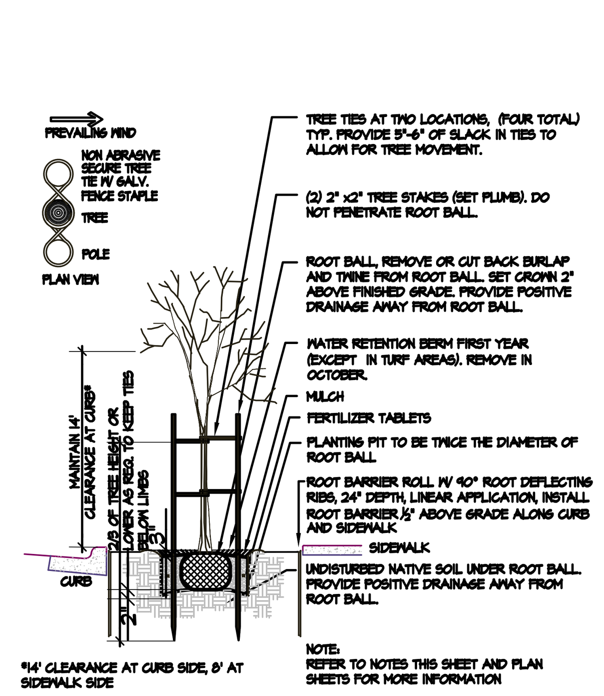


(D) **Ground Cover Planting Detail**
Not To Scale — PLAN VIEW

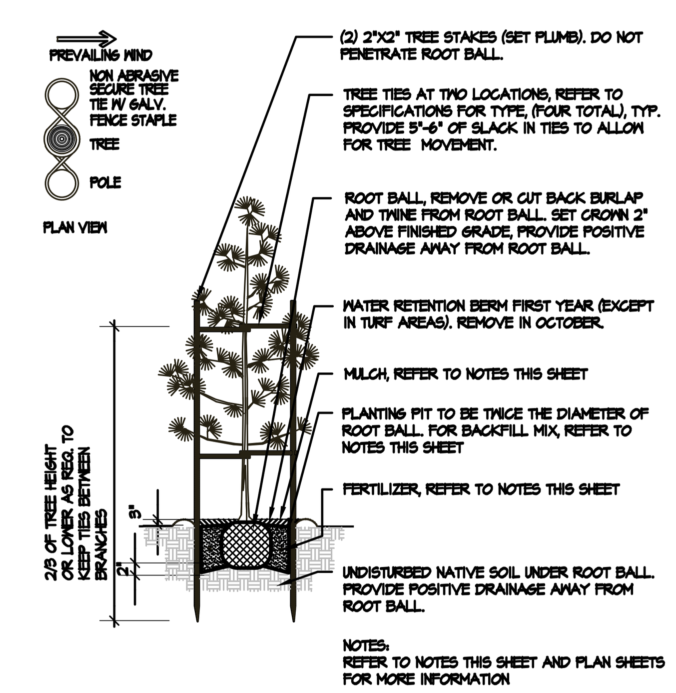
Trees and Shrubs in Sight Distance Triangles, Typ.
All shrubs within sight distance triangles shall be maintained so that foliage height above pavement does not exceed 2.5 feet. Street trees within sight distance triangles shall be limbed up to a height of 10 feet consistent with ANSI A300 standards to provide for sight distance visibility.

PLANTING NOTES

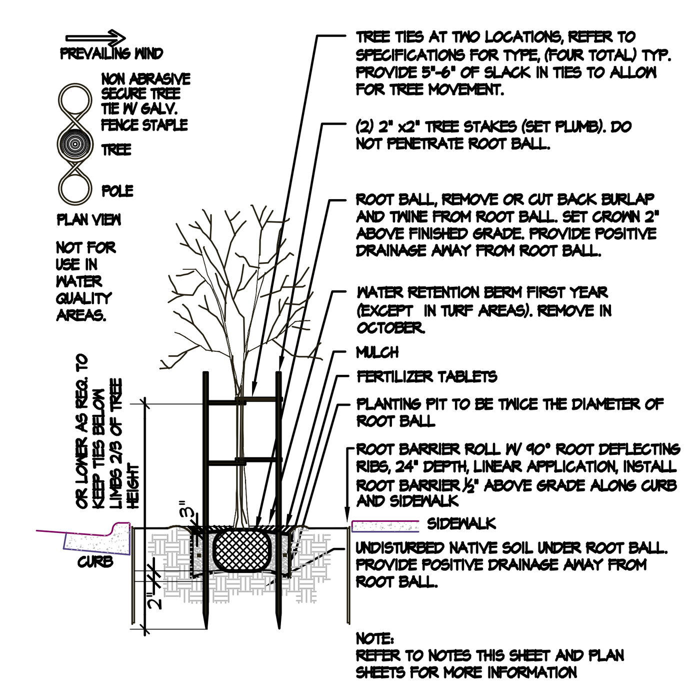
1. ALL BOUNDARIES, EASEMENTS, UTILITIES AND LEGAL ENCUMBRANCES TO BE CONFIRMED WITH OWNER PRIOR TO BEGINNING WORK. PROPERTY LINES AND SURVEY INFORMATION PROVIDED BY PLS ENGINEERING.
2. IN NO WAY IS THIS PLAN TO BE INTERPRETED TO EXCEED THE LEGAL BOUNDARIES OF THE OWNER'S REAL PROPERTY.
3. THE LANDSCAPE DESIGNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF BOUNDARIES, UTILITIES AND WETLANDS.
4. THIS PLAN SHALL BE INSTALLED TO MEET ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.
5. THIS PLAN SHALL BE CONSIDERED PRELIMINARY UNTIL APPROVED BY ALL GOVERNING AGENCIES. IMPLEMENTATION OF THIS PLAN SHALL NOT PROCEED UNTIL ISSUANCE OF ALL RELATED PERMITS.
6. PLANT QUANTITIES ARE FOR INFORMATION ONLY. IN CASE OF ANY DISCREPANCY, THE PLAN SHALL GOVERN.
7. ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
8. THE CONTRACTOR IS TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO PERFORMING ANY EXCAVATION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR'S WORK, AT NO ADDITIONAL COST TO THE OWNER. CONTACT ALL UTILITY PROVIDERS SERVING THE SITE AREA 48 HOURS PRIOR TO ANY EXCAVATION.
9. ALL PLANT MATERIALS SHALL MATCH SPECIFICATIONS PER SPECIES AND SHALL COMPLY WITH ANSI Z60.1 'STANDARD FOR NURSERY STOCK'.
10. THE CONTRACTOR SHALL ADHERE TO THE WASHINGTON ASSOCIATION OF NURSERYMEN'S GUIDELINES FOR PLANTING PRACTICES.
11. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING ELEMENTS ON AND OFF SITE, RESULTING FROM THE CONTRACTOR'S WORK.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE VIABILITY OF ALL PLANT MATERIAL FOR 2 YEARS AFTER COMPLETION OF PLANTING. DISEASED, DYING, OR DEAD PLANT MATERIAL SHALL BE REPLACED BY THE CONTRACTOR DURING THE TWO YEAR PERIOD AND MAINTAINED FOR AN ADDITIONAL 2 YEAR PERIOD.
13. IMMEDIATELY UPON BID AWARD, CONTRACTOR SHALL SECURE THE PLANT MATERIALS AS SPECIFIED FROM AVAILABLE SOURCES. IN THE EVENT THAT PLANT MATERIALS ARE NOT AVAILABLE, CONTACT LANDSCAPE ARCHITECT FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTION FOR PLANT MATERIAL WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
14. TOP DRESS ALL SHRUB AND GROUND COVER AREAS (NOT LAWN) WITH 3" OF FIR BARK MULCH. SUBMIT SAMPLE TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
15. TREE LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT SITE REQUIREMENTS AS DIRECTED BY THE LANDSCAPE ARCHITECT.
16. THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATED PLANTING PITS HAVE POSITIVE DRAINAGE. PLANT PITS FULLY FLOODED WITH WATER SHALL DRAIN WITHIN (12) HOURS OF FILLING.
17. FINISH GRADE SHALL BE SET TO ALLOW POSITIVE DRAINAGE
18. ROTOTILL 2" OF COMPOST INTO ALL PLANTED AREAS.
19. INCORPORATE PEAT INTO THE ROOT ZONE OF RHODODENDRONS, AZALEAS AND OTHER ACID LOVING PLANTS.
20. INCORPORATE 10-20-20 FERTILIZER INTO THE ROOT ZONE OF ALL NEW PLANTINGS.
21. RONSTAR, OR APPROVED EQUAL, PREEMERGENT HERBICIDE TO BE APPLIED TO ALL PLANTED AREAS PER MANUFACTURERS INSTRUCTIONS.
22. EXISTING VEGETATION TO BE SPRAYED WITH ROUNDUP, OR APPROVED EQUAL, PER MANUFACTURERS INSTRUCTIONS. SUFFICIENT TIME SHALL BE GIVEN TO ALLOW EXISTING MATERIAL TO DIE. REMOVE EXISTING 27. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING TURF PLANTED WITHIN THE RIGHT OF WAY.
23. CROWN LAWN AREAS AND GRADE TO PROVIDE POSITIVE DRAINAGE.
24. ROLL LAWN AREA TO INSURE PROPER COMPACTION TO MINIMIZE SETTLING.
25. AMEND SOIL IN LAWN AREAS WITH 80 LBS. OF DOLOMITE LIME AND 40 LBS. OF 10-20-20 SLOW RELEASE FERTILIZER OR EQUIVALENT. PROVIDE A 3" LAYER OF SANDY LOAM TOPSOIL FOR LAWN AND BED AREA.
26. SEED LAWN AREAS WITH GRASS SEED MANUFACTURER'S RECOMMENDATIONS. COVER SEED WITH FINE MULCH APPLIED WITH ROLLER OR HYDROSEED.
27. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING TURF PLANTED WITHIN THE RIGHT OF WAY.
28. PLANT MATERIAL SHALL BE PLANTED W/ ROOT CROWN 1" ABOVE FINISHED GRADE TO ALLOW POSITIVE DRAINAGE AWAY FROM CROWN.
29. STAKE ALL TREES OVER 6 FT. IN HEIGHT PER DETAILS ON THIS SHEET.
30. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
31. ALL PLANTING SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND SPRINKLER SYSTEM.
32. ALL PLANT MATERIALS FURNISHED ARE TO BE HEALTHY, UNIFORMLY BRANCHED AND WITH WELL DEVELOPED FIBROUS ROOT SYSTEMS.
33. ALL PLANT MATERIALS FURNISHED ARE TO BE FREE FROM DEAD OR BROKEN BRANCHES, LICHENS, SCARS, BROKEN BARK OR WOUNDS. ALL PLANT MATERIALS WILL BE INSECT, WEED, AND DISEASE FREE ACCORDING TO THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF AGRICULTURE FOR NURSERY PLANT MATERIALS SOLD FOR WHOLESALE OR RETAIL. ALL PRUNING WOUNDS MUST BE WELL HEALED WITH NO EVIDENCE OF DECAY.
34. FIELD CONFIRM ALL SITE CONDITIONS, AREAS AND SIZES PRIOR TO BIDDING & CONSTRUCTION. DO NOT SCALE FROM PLANS.



(A) **B & B Tree Planting - Street Tree Detail**
Not To Scale — SECTION / PLAN VIEW



(B) **B & B Tree Planting Detail: Evergreen under 8' Height**
Not To Scale — SECTION / PLAN VIEW



(C) **B & B Tree Planting Detail**
Not To Scale — SECTION / PLAN VIEW

Planning Solutions, Inc.
Creating Solutions to Complex Issues
4400 NE 77th Avenue
Suite 275
VANCOUVER, WA 98662
VOICE: 360-750-9000 FAX: 360-713-6102
www.planningsolutionsinc.com

STATE OF WASHINGTON — CHRISTOPHER A BAUMANN — NO. 635 EXP. 02-20-2023 — LICENSED LANDSCAPE ARCHITECT

PRELIMINARY
NOT FOR CONSTRUCTION
SUBJECT TO APPROVAL

78TH STREET SITE PLAN

1308 NE 78th Street
Vancouver, Washington

DRAWN: VH	CHECKED: CB
SCALE: 1" = 30'-0"	DATE: 11.02.21
JOB #: 21-1682	
ISSUED FOR: PSR	
REVISIONS:	
1	
2	
3	
4	
5	
6	

SHEET NAME:
PRELIMINARY LANDSCAPE PLAN

SHEET #:
L1

SHEET 1 OF 1

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