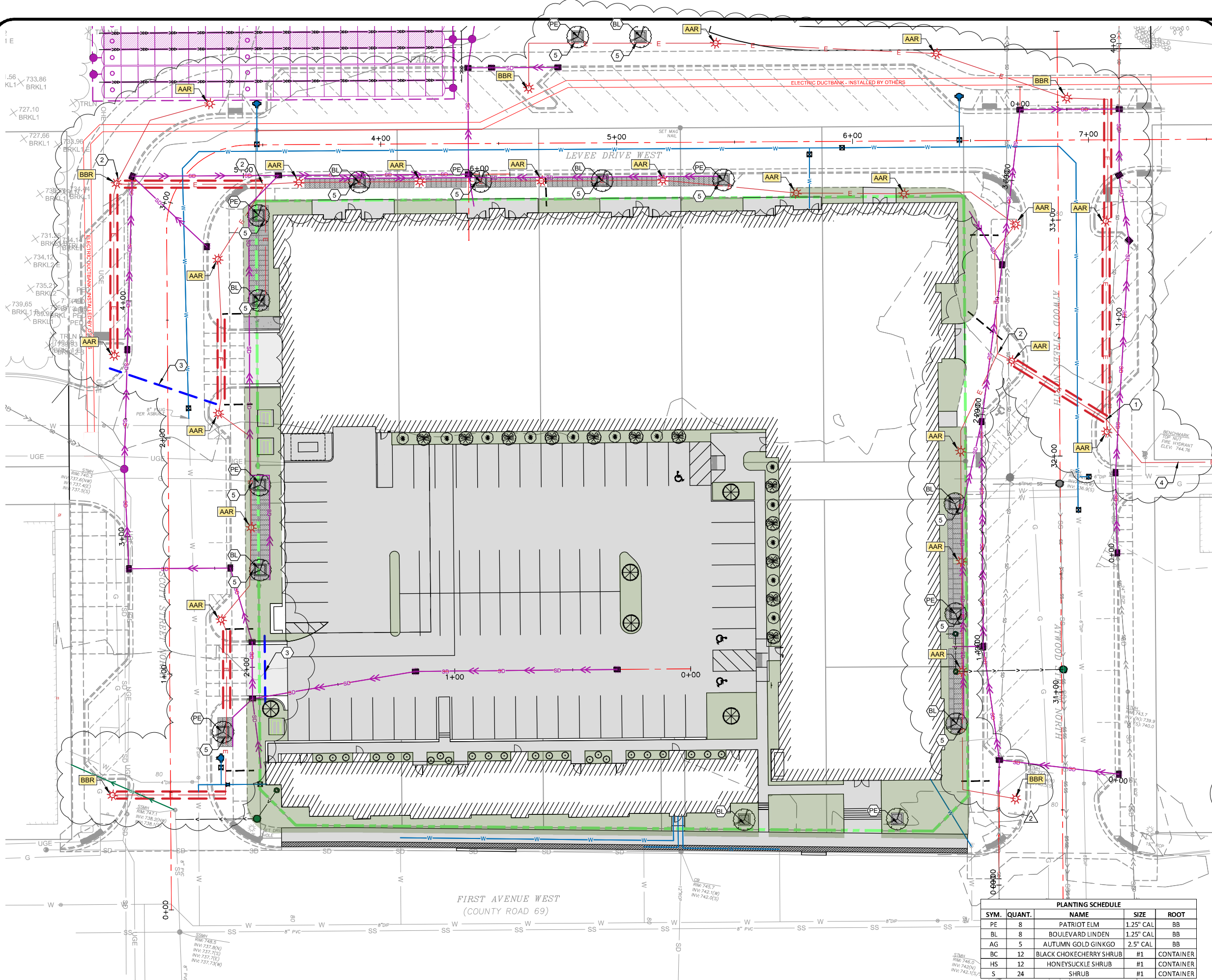


Plot: By: Trevor Thumason Date: Friday, November 5, 2021 11:25:07 AM
Last Saved By: Trevor Thumason Date: Thursday, November 4, 2021 11:25:07 AM
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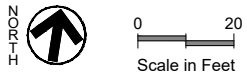


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:

TYPED NAME: Justin T. Klabo, PE

REG. NO. 48701



ORIGINAL PLAN SIZE: 22"x34"
HALF SIZE PLAN SIZE: 11"x17"

LANDSCAPE LEGEND

- 5'x5' TREE PLANTING PIT, INCLUDING 6" CONCRETE CURB PLANTER, TREE, AND 4" SLOTTED PVC OVERFLOW OUTLET PIPE. REFER TO SHEET C36
- 2'x4' SILVA CELL. REFER TO SHEET C36
- SMALL AUTUMN GOLD GINKGO
- BLACK CHOKEBERRY (ARONIA MELANOCARPA) SHRUB
- HONEYSUCKLE (LONICERA DIOICA) SHRUB
- SHRUB
- SOD
- LIGHT POLE. REFER TO SHEET C34-35
- 1-1/4" SCH 80 PVC CONDUIT FOR ELECTRICAL BY OTHERS
- ELECTRICAL WIRING IN 1-1/4" SCH 40 PVC CONDUIT
- SIX 2" PVC CONDUITS FOR SPU
- 3" PVC CONDUIT FOR IRRIGATION

CONSTRUCTION NOTES

- APPROXIMATE LOCATION OF CONTROL CABINET. COORDINATE EXACT LOCATION WITH SPU AND THE CITY
- INSTALL JUNCTION BOX
- COORDINATE CONDUIT INSTALLATION WITH SPU. SIX 2" PVC CONDUITS
- SECONDARY FROM TRANSFORMER IN ALLEY. COORDINATE WITH SPU
- PROVIDE FLUSH MOUNTED GROUND BOX WITH FOURPLEX RECEPTACLES WITH GFCI PROTECTED BREAKER FOR SEASONAL/HOLIDAY LIGHTING ON TREE. GROUND BOX SHALL BE WIREMOLD #XB814C520 OR PRIOR APPROVED ALTERNATE. COLOR OF COVER TO BE APPROVED BY CITY AND ENGINEER

NOTES:
STREET LIGHTS WITH OUTLETS SHALL BE ON A SEPARATE BREAKER

ENSURE CORRECT NUMBER OF WIRES ARE PULLED THROUGH THE SYSTEM TO FEED THE STREET LIGHTS AND OUTLETS SEPARATELY

WIRING:

- (2) HOT
- (1) NEUTRAL
- (1) FESTOON
- (1) FESTOON NEUTRAL
- (1) SAFETY GROUND

PLANTING SCHEDULE				
SYM.	QUANT.	NAME	SIZE	ROOT
PE	8	PATRIOT ELM	1.25" CAL	BB
BL	8	BOULEVARD LINDEN	1.25" CAL	BB
AG	5	AUTUMN GOLD GINKGO	2.5" CAL	BB
BC	12	BLACK CHOKECHERRY SHRUB	#1	CONTAINER
HS	12	HONEYSUCKLE SHRUB	#1	CONTAINER
S	24	SHRUB	#1	CONTAINER

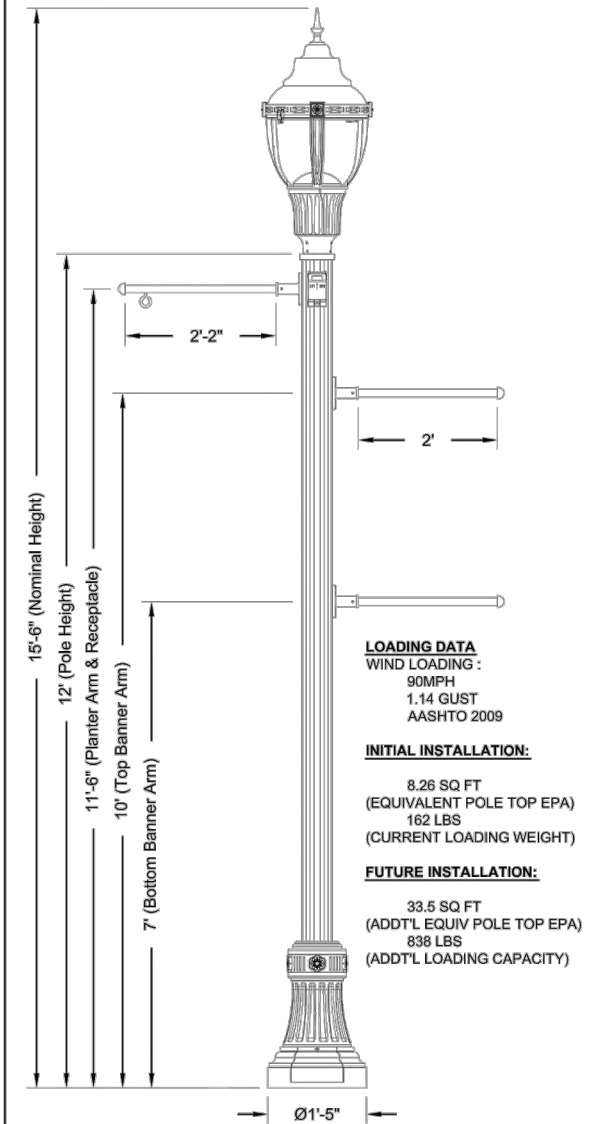
STREET LIGHT POLE DETAILS
SHOWN FOR REFERENCE ONLY

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT
WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 

TYPED NAME: Justin T. Klabo, PE
July 22, 2021 REG. NO. 48701

NOTES:
1. CUSTOMER MUST VERIFY ACCESSORY HEIGHTS AND ORIENTATIONS IN THE TABLE ON
RIGHT DURING APPROVAL.
2. SITELINK BANNER ARMS PLACED IN FIELD. WINDLOADING CALCULATED USING
ACCESSORIES AS SHOWN.
3. ANY ADDITIONAL WEIGHT/EPA ON POLE, OR CHANGES TO BANNER SIZE, WILL NEED TO BE
VERIFIED BY HOLOPHANE ENGINEERING.
4. APPROVED AND COMPLETED SUBMITTAL TO ACCOMPANY PO.



LOADING DATA
WIND LOADING :
90MPH
1.14 GUST
AASHTO 2009

INITIAL INSTALLATION:
8.26 SQ FT
(EQUIVALENT POLE TOP EPA)
162 LBS
(CURRENT LOADING WEIGHT)

FUTURE INSTALLATION:
33.5 SQ FT
(ADDT'L EQUIV POLE TOP EPA)
838 LBS
(ADDT'L LOADING CAPACITY)

Specifications

POST DESCRIPTION
The lighting post shall be all aluminum construction consisting of a pole cap and a decorative fluted cast aluminum base. The patented SiteLink shaft profile shall consist of four mounting tracks and channels. The post shall be provide with (1) GFI receptacle with small, in-use weatherproof cover and (1) SiteLink 26" planter arm and (2) SiteLink 24" banner arms.

MATERIALS
The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The shaft shall be extruded from aluminum, ASTM 6061 alloy. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

DIMENSIONS
The post shall be 12'-0" in height with a Ø17" base. An integral Ø3"x3" tenon with transitional donut shall be provided for luminaire mounting. The shaft diameter shall be 5.25" square.

INSTALLATION
The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a 12" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

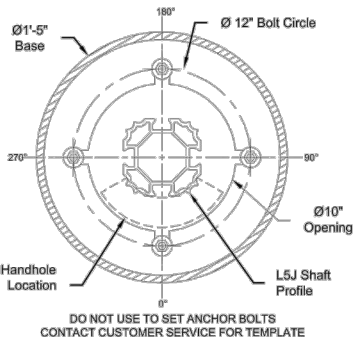
FINISH
The entire assembly shall have a Holophane black finish.

LUMINAIRE
Utility Washington FCO LED
- 035HO LED Package - 3000 Series CCT - Auto-Sensing 120-277V
- Type 5 Full Cutoff LED Distribution - Black finish - Spike Finial
- Field Adjustable Output

Accessory Mounting Detail

	Orientation	Height
RECEPTACLE	0°	11'-6"
BANNER ARMS	90°	7'-0" & 10'-0"
PLANTER ARM	270°	11'-6"

Anchorage Detail



Catalog #'s:
Pole: NYA12L5J17P07ABGBK R138A S120B S84B S138D
Receptacle: FGIUS_SBKH
Banner Arms: (2)BA24L45H4BK
Planter Arm: BA26L45H4BKF
Fixture: WFCL2035HO3KASBKL5SAO

Customer Signature _____ Date _____

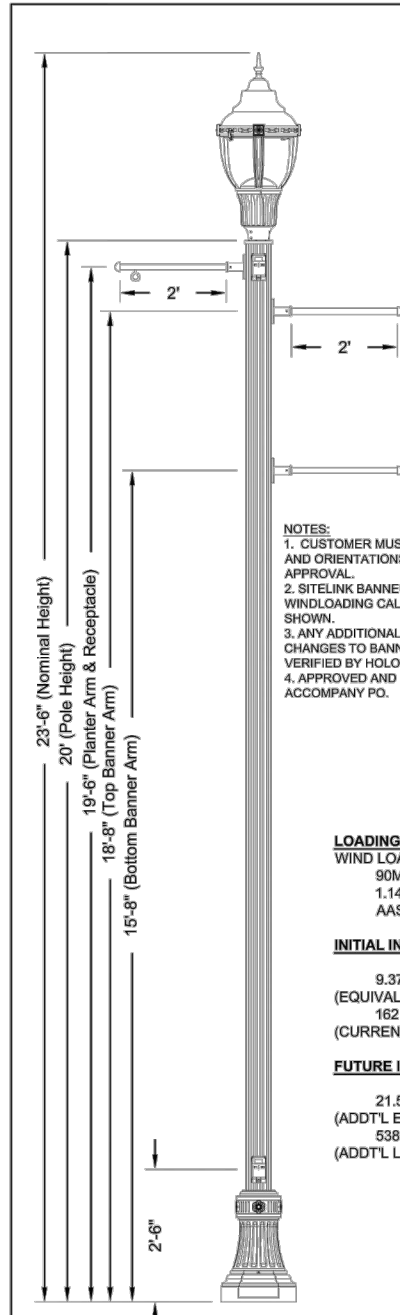
TYPE AA & AAR - TYPE A DOES
NOT HAVE RECEPTACLE.

Shakopee Downtown Improvements
Shakopee, Minnesota

ORDER #: 2044-17-10782-1	TYPE: AAR	DRAWING #: TSG 010359
REVISION:	REVISION DATE:	
DRAWN: MAB	ORIGIN DATE: 08/29/17	PAGE: 1 of 3



THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



NOTES:
1. CUSTOMER MUST VERIFY ACCESSORY HEIGHTS
AND ORIENTATIONS IN THE TABLE ON RIGHT DURING
APPROVAL.
2. SITELINK BANNER ARMS PLACED IN FIELD.
WINDLOADING CALCULATED USING ACCESSORIES AS
SHOWN.
3. ANY ADDITIONAL WEIGHT/EPA ON POLE, OR
CHANGES TO BANNER SIZE, WILL NEED TO BE
VERIFIED BY HOLOPHANE ENGINEERING.
4. APPROVED AND COMPLETED SUBMITTAL TO
ACCOMPANY PO.

LOADING DATA
WIND LOADING :
90MPH
1.14 GUST
AASHTO 2009

INITIAL INSTALLATION:
9.37 SQ FT
(EQUIVALENT POLE TOP EPA)
162 LBS
(CURRENT LOADING WEIGHT)

FUTURE INSTALLATION:
21.5 SQ FT
(ADDT'L EQUIV POLE TOP EPA)
538 LBS
(ADDT'L LOADING CAPACITY)

Specifications

POST DESCRIPTION
The lighting post shall be all aluminum construction consisting of a pole cap and a decorative fluted cast aluminum base. The patented SiteLink shaft profile shall consist of four mounting tracks and channels. The post shall be provide with (2) GFI receptacles with small, in-use weatherproof cover and (1) SiteLink 24" planter arm and (2) SiteLink 24" banner arms.

MATERIALS
The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The shaft shall be extruded from aluminum, ASTM 6061 alloy. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

DIMENSIONS
The post shall be 20'-0" in height with a Ø17" base. An integral Ø3"x3" tenon with transitional donut shall be provided for luminaire mounting. The shaft diameter shall be 5.75" square.

INSTALLATION
The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a 12" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

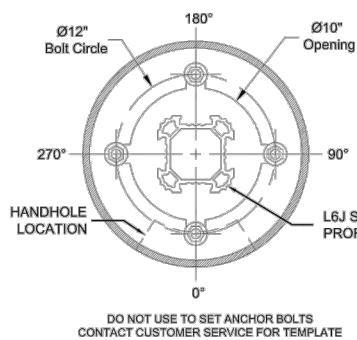
FINISH
The entire assembly shall have a Holophane black finish.

LUMINAIRE
Utility Washington FCO LED
- 035HO LED Package - 3000 Series CCT - Auto-Sensing 120-277V
- Type 5 Full Cutoff LED Distribution - Black finish - Spike Finial
- Field Adjustable Output

Accessory Mounting Detail

	Orientation	Height
RECEPTACLE	0°	2'-6" & 19'-6"
BANNER ARMS	90°	15'-8" & 18'-8"
PLANTER ARM	270°	19'-6"

Anchorage Detail



Catalog #'s:
Pole: NYA20L6J17P07ABGBK R234A R30A S224B S188B S212D
Receptacle: (2)FGIUS_SBKH
Banner Arms: (2)BA24L68H4BK
Planter Arm: BA24L68H4BKF
Fixture: WFCL2035HO3KASBKL5SAO

Customer Signature _____ Date _____

THIS CUT SHEET IS FOR TYPE BB
AND TYPE BBR. TYPE BB DOES
NOT HAVE POWER RECEPTACLE.

Shakopee Downtown Improvements
Shakopee, Minnesota

ORDER #: 2044-17-10782-1	TYPE: BB	DRAWING #: TSG 010359
REVISION:	REVISION DATE:	
DRAWN: MAB	ORIGIN DATE: 08/29/17	PAGE: 2



THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

RIVER BLUFFS IMPROVEMENTS
GAUGHAN CO.
SHAKOPEE, MINNESOTA

DRAWING TYPE
CONSTRUCTION
PREPARED BY
TMT
CHECKED / APPROVED
JTK / JTK
DATE
JULY 2021
PROJECT NUMBER
14416-2018-001

SHEET
41 of 46
DRAWING
41