



Friday, March 07, 2008

RE: 1 Hotel Living Walls – Low Light Conditions

To Whom It May Concern,

G-Sky is currently working with Starwood Capital Group on a 1 Hotel property in Washington, DC to supply an interior Green Wall that, as currently designed, is approximately 110' tall by 100' wide. This inverted 'L'-shaped atrium, which is oriented both North-South and East-West, will be lit by a combination of natural sunlight and artificial light. In order to make this project as environmentally friendly as possible, Starwood wishes to reduce the amount of artificial lighting required to be installed to save energy.

When a Green Wall is installed in a low-light condition, G-Sky draws from our past experience and Green Wall plant knowledge to select plants that can thrive in these conditions. The same is true for direct sunlight conditions, or partial shade. There are several different plants which thrive in low-light conditions, please see the attached list as a reference of proven low-light plants which we have used in the past. This list is by no means exhaustive, and there are still many more plants that thrive in low-light, partial shade and direct sun conditions which are not on our advertising material.

G-Sky has no concerns whatsoever that, as designed, the interior Green Wall in the atrium at the 1 Hotel project in Washington can be fully green and beautiful with minimal or no artificial lighting installed.

If you have further questions, please feel free to contact us at 1-888-708-GSKY.

Warm Regards,

Chad Sichello
President and CEO

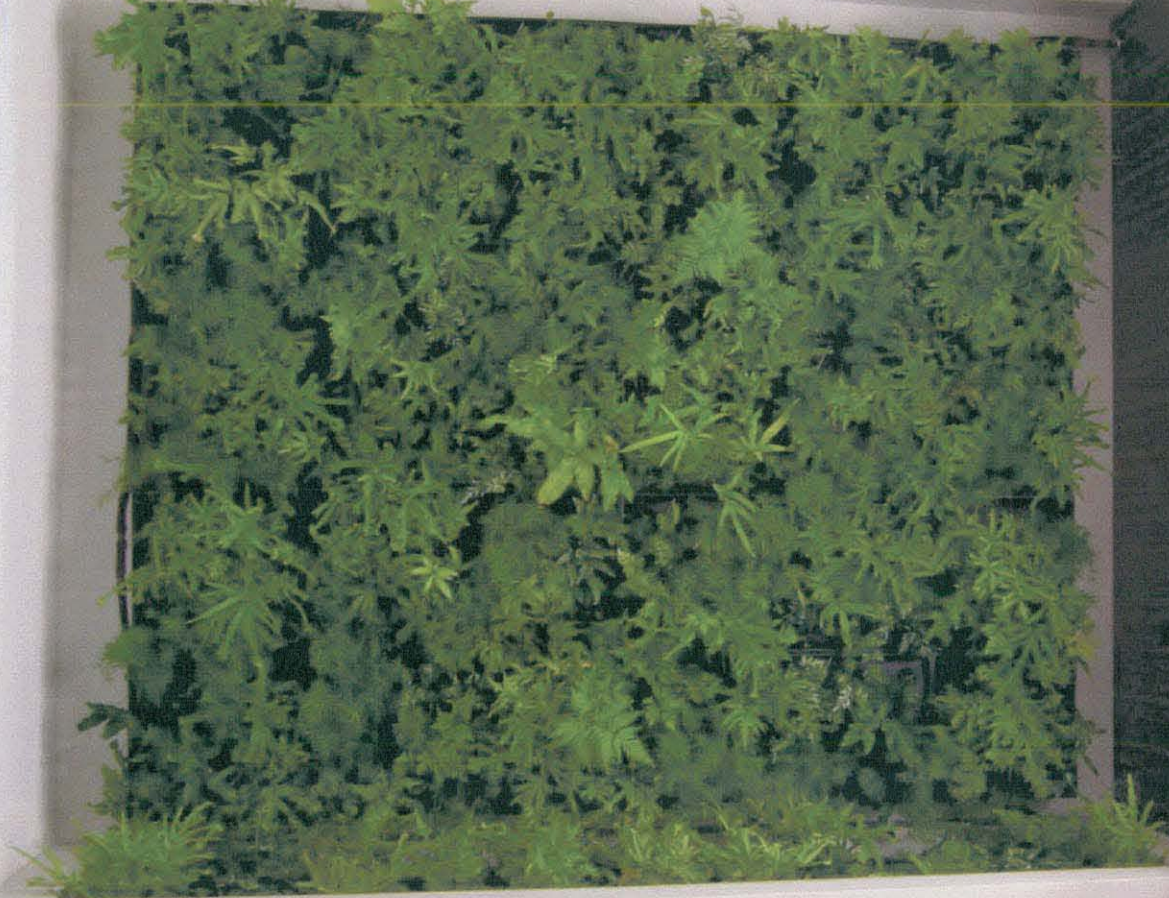
crs

ZONING COMMISSION
District of Columbia
CASE NO. 07-21
EXHIBIT NO. 57



gsky

Green Wall Panels



Dental Office - Vancouver, BC
























































gsky

Green Wall Panels

Whole Foods Market - Austin, TX

G-Sky Green Wall Panels Interior Plants for Low Light



Low-Light Plants	Plant	Suitable Wall Faces			Air Purifying Quality	Notes
		No Direct Sun / Shade ¹	Filtered Sun / Partial Shade ²	Full-Sun ³		
	ZZ Plant <i>Zamioculcas zamiifolia</i>			✗		ZZ Plant is used for its attractive glossy foliage. Bright, non-direct sunlight is best for Aroid Palm, although it tolerates very low light. Some direct sun can be tolerated, but only very little.
	Janet Craig <i>Dracaena deremensis 'Janet Craig'</i>			✗		Janet Craig 'Compacta', 'Lemon Lime' and 'Warneckii' are reliable green wall plants that require proper watering to keep these plants to their full appearance. Dracaenas like filtered light and does just as well in very low-light conditions.
	Chinese Evergreen <i>Aglaonema</i>			✗		Chinese Evergreen and its several cultivars prefer indirect light and do best in shadow-less light. They are amongst the most reliable interior plants as they can tolerate almost any light condition and there are a wide range of varieties available.
	Pothos Ivy <i>Epipremnum aureum</i>			✗		Pothos 'Golden Jade', 'Marble Queen' and 'Neon' are three fabulous ivy plants. Pothos is tolerant of low-light, although after being installed, it will shed some leaves as adjusts to the light change from the bright nursery to its installed location.
	Peace Lily <i>Spathiphyllum</i>			✗		The purifying power of the peace lily is confirmed by NASA, where it was proven that it purifies the air from cigarette smoke, the smell of printers and gasoline while at the same time adding more oxygen to the air. Loves shady low-light.
	Mother in Law's Tongue <i>Sansevieria</i>					There are over 70 different varieties of Mother in Law's Tongue and they are all equally as strong. They can tolerate any light condition and are excellent air purifiers. If full wall coverage is desired, they need to be mixed with other plants.
	Cast Iron Plant <i>Aspidistra</i>					Aptly named as it can take severe neglect and still survive. The plant can tolerate colder temperatures at night near freezing. It has a good air purification quality and there are several different variegated varieties that can be used to brighten up dark spaces.
	Japanese Holly Fern <i>Cyrtomium falcatum</i>			✗		A beautiful fern that outperforms the standard Boston Fern. It has fronds that grow to 18"-24" and trails down the wall as if on a cliff-side. Like many ferns, it is an excellent air purifier and oxygen producer. Direct sun is an absolute killer for this plant.
	English Ivy's <i>Hedera helix</i>					With literally hundreds of varieties available English Ivy is one of the best interior plants there is. It tolerates any light condition, from direct hot sun, to almost complete darkness, and it's continued vigorous growth makes an excellent air purifier. We recommend Ivy's over all other plants in difficult situations.
	Dallas Fern <i>Nephrolepis exaltata 'Dallas'</i>			✗		A cousin of the popular Boston Fern, the Dallas Fern is smaller and grows in a more compact shape. It is an excellent Green Wall plant that, like many ferns, is a high oxygen producer and excellent air purifier. While it is not the best plant in super-low light situations, it tolerates it better than Boston Fern.
	Philodendron <i>Philodendron bipinnatifidum</i>					A large plant that can grow out several feet from a Green Wall, the Philodendron needs some space! But, if you've got the space, or some overhead room, it can be a dramatic addition to a Green Wall that tolerates all light conditions.
	Dragon Tree <i>Dracaena marginata</i>					All of the Dragon Tree varieties are excellent plants. They are brightly colored, have grass like foliage and cover extremely well over the wall. Next to Pothos and English Ivy, this is one of our favorites.

G-SKY GREEN WALL PANELS

IRRIGATION DESIGN WITHOUT OPENING



DRAWING #

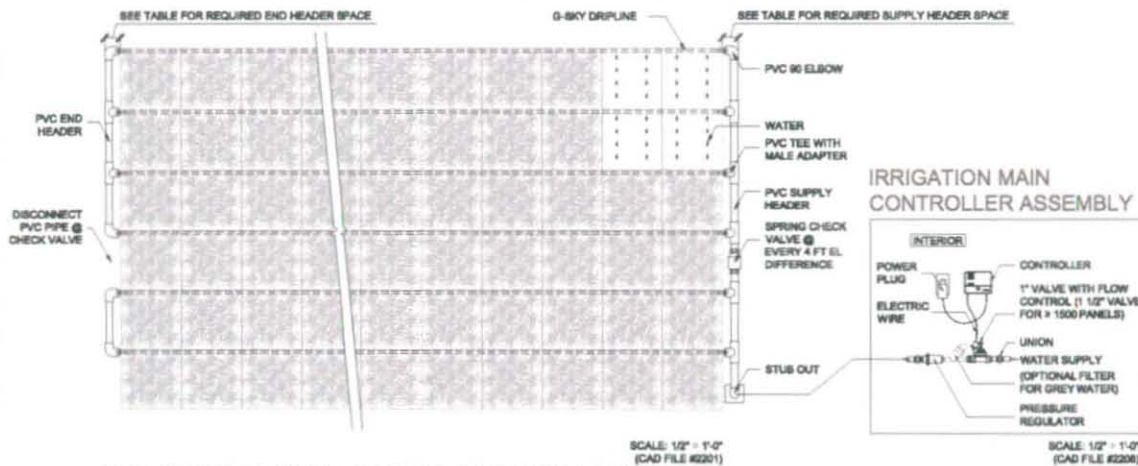
G-2

DATE: FEB 7, 2007

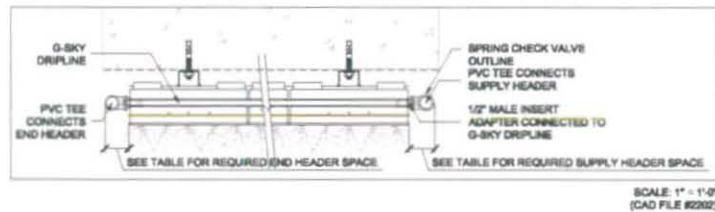
WALL MUST SUPPORT SATURATED GREEN WALL PANEL AND FRAME WEIGHT OF 30 LBS/SQ.FT.
WATERPROOFING BY OTHERS
MAIN WATER SUPPLY LINE BY OTHERS
AN INDEPENDENT MAIN WATER SUPPLY LINE AND 110V POWER OUTLET ARE REQUIRED

#208 888 RIDLEY PLACE
DELTA, BC V9M 6T9
604-705-2811 ph 604-357-1318 fax
www.g-sky.com

FRONT VIEW FOR MORE THAN 150 GREEN WALL PANELS



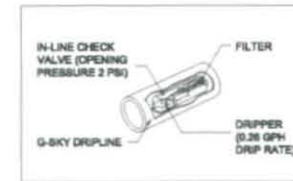
PLAN VIEW FOR MORE THAN 150 GREEN WALL PANELS



IRRIGATION DESIGN / REQUIREMENTS TABLE FOR MORE THAN 150 GREEN WALL PANELS

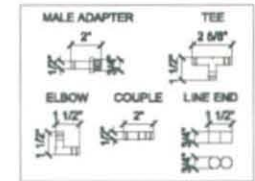
WALL SIZE (PANEL) *1	PANEL LAYOUT (PANEL x PANEL)	MAX LENGTH (PANEL)	MAX HEIGHT (PANEL)	MIN WATER PRESSURE (PSI)	MIN WATER FLOW (GPM)	SUPPLY HEADER LINE SIZE	STUB OUT SIZE *2	REQUIRED SUPPLY HEADER *3 SPACE	REQUIRED END HEADER *3 SPACE
300	250 x 1	250	20	35	2.8	1/2" PVC	3/4"	>2 1/2"	>2"
250	25 x 10	250	20	35	2.8	1/2" PVC	3/4"	>2 1/2"	>2"
900	250 x 3	250	50	40	5.2	3/4" PVC	1"	>2 3/4"	>2 1/2"
750	15 x 50	250	50	40	7.8	3/4" PVC	1"	>2 3/4"	>2"
1000	20 x 50	250	50	45	7.9	3/4" PVC	1"	>2 3/4"	>2"
2000	250 x 8	250	50	45	10.4	1" PVC	1 1/2"	>3 1/2"	>2"
	40 x 50	250	50	50	10.4	1" PVC	1 1/2"	>3 1/2"	>2"
				45	20.8	1 1/4" PVC	1 1/2"	>4 1/2"	>3 1/2"
				50	20.8	1 1/4" PVC	1 1/2"	>4 1/2"	>3 1/2"

DRIPPER DETAIL



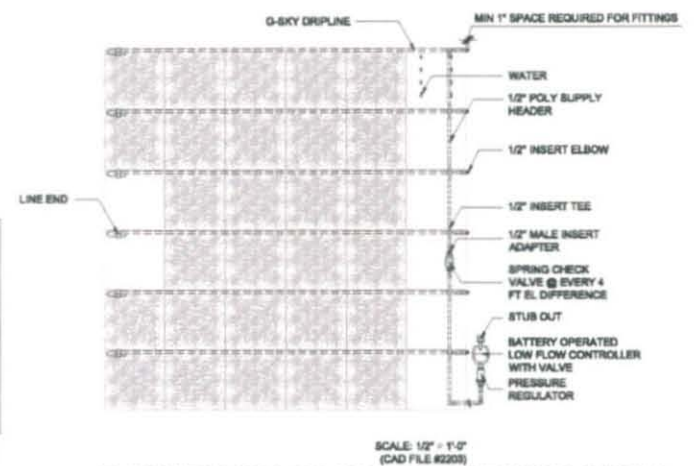
SCALE: 1" = 1'-0"
(CAD FILE #1352)

1/2" INSERT FITTING DETAIL

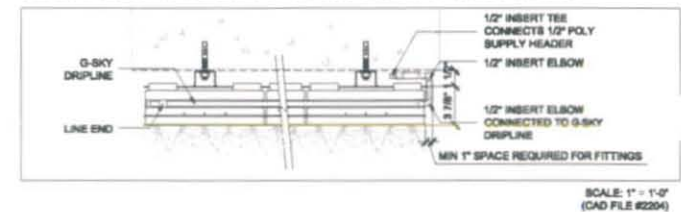


SCALE: 1 1/2" = 1'-0"
(CAD FILE #1301)

FRONT VIEW FOR LESS THAN 150 GREEN WALL PANELS



PLAN VIEW FOR LESS THAN 150 GREEN WALL PANELS



IRRIGATION DESIGN / REQUIREMENTS TABLE FOR LESS THAN 150 GREEN WALL PANELS

WALL SIZE (PANEL) *1	PANEL LAYOUT (PANEL x PANEL)	MAX LENGTH (PANEL)	MAX HEIGHT (PANEL)	MIN WATER PRESSURE (PSI)	MIN WATER FLOW (GPM)
12	3 x 4	-	-	30	5.3
80	50 x 1	-	10	30	5.8
	5 x 10	-	10	30	5.8
150	150 x 1	-	30	30	1.8
	10 x 15	-	20	30	1.8

*1 THESE TABLES APPLY TO SQUARE SHAPED GREEN WALLS. SEE G-3 FOR GREEN WALLS WITH OPENINGS.

*2 THESE TABLES ASSUME THAT THE STUB OUT IS LOCATED AT THE BOTTOM OF THE GREEN WALL.

*3 SUPPLY HEADER SUPPLIES WATER VERTICALLY FROM STUB OUT. END HEADER INCREASES WATER CIRCULATION.

*4 FOR LESS THAN 150 GREEN WALL PANELS, THE SUPPLY HEADER MAY BE DESIGNED TO FIT BEHIND THE GREEN WALL.

*5 THE IRRIGATION SYSTEM IS DESIGNED FOR CLEAN (CONTAMINANT FREE) WATER. CONSULT G-SKY FOR GREY WATER FILTER REQUIREMENTS.

*6 IRRIGATION CONTROLLER ASSEMBLY MAY BE USED FOR LESS THAN 150 GREEN WALL PANELS.

G-SKY GREEN WALL PANELS

IRRIGATION DESIGN WITH OPENINGS



#208 889 RIDLEY PLACE
DELTA, BC V3M 6Y9
604-738-0511 ph 604-357-1315 fax
www.gsky.com

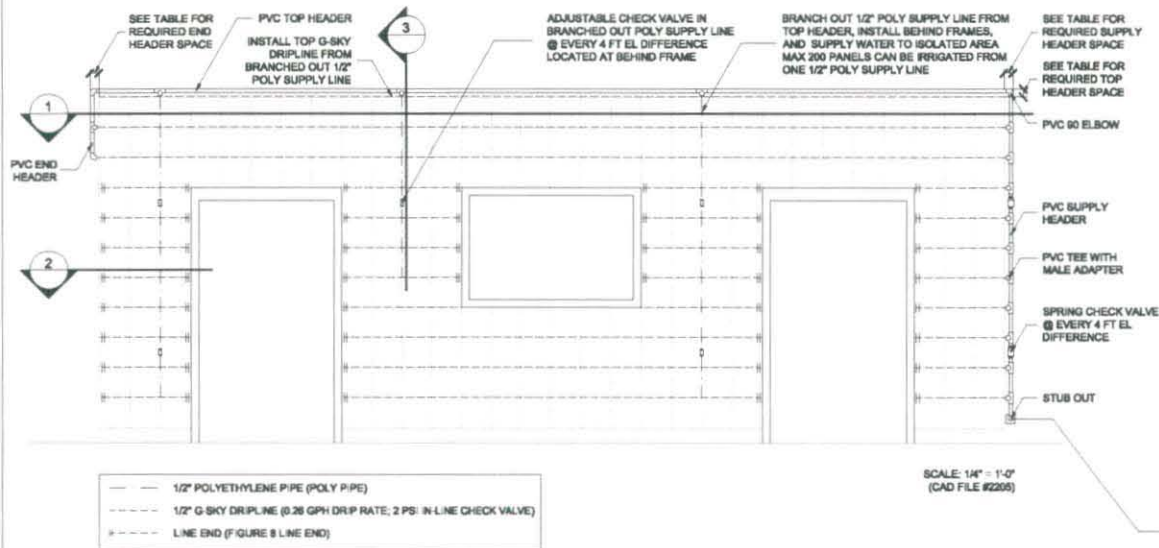
DRAWING #

G-3

DATE: FEB 7, 2007

WALL MUST SUPPORT SATURATED GREEN WALL PANEL AND FRAME WEIGHT OF 30 LBS/SQ.FT.
WATERPROOFING BY OTHERS
MAIN WATER SUPPLY LINE BY OTHERS
AN INDEPENDENT MAIN WATER SUPPLY LINE AND 110V POWER OUTLET ARE REQUIRED

FRONT VIEW FOR GREEN WALL PANELS WITH OPENINGS



SCALE: 1/4\" = 1'-0\"
(CAD FILE #2205)

IRRIGATION DESIGN / REQUIREMENTS TABLE FOR GREEN WALL PANELS WITH OPENINGS

WALL SIZE (PANEL)	PANEL LAYOUT (PANEL x PANEL)	MAX LENGTH (PANEL)	MAX HEIGHT (PANEL)	MIN WATER PRESSURE (PSI)	MIN WATER FLOW (GPM)	SUPPLY HEADER LINE SIZE	STUB OUT SIZE #	REQUIRED SUPPLY HEADER #3 SPACE	REQUIRED END HEADER #3 SPACE	REQUIRED TOP HEADER #3 SPACE
12	3 x 4	-	-	20	0.2	1/2\" POLY	1/2\"	-	-	≥ 1\"
80	8 x 10	-	10	30	0.6	1/2\" POLY	1/2\"	-	-	≥ 1\"
150	15 x 15	-	20	35	1.6	1/2\" POLY	1/2\"	-	-	≥ 1\"
250	25 x 15	250	20	35	1.6	1/2\" POLY	1/2\"	≥ 2 1/2\"	≥ 2\"	≥ 2\"
350	25 x 10	250	20	35	2.8	1/2\" PVC	3/4\"	≥ 2 1/2\"	≥ 2\"	≥ 2\"
500	25 x 2	250	60	40	5.2	3/4\" PVC	1\"	≥ 2 3/4\"	≥ 2 1/2\"	≥ 2 1/2\"
750	25 x 3	250	50	40	7.8	3/4\" PVC	1\"	≥ 2 3/4\"	≥ 2 1/2\"	≥ 2\"
1000	25 x 4	250	60	45	10.4	1\" PVC	1\"	≥ 3 1/2\"	≥ 2\"	≥ 2\"
2000	25 x 8	250	60	45	20.8	1 1/4\" PVC	1 1/2\"	≥ 4 1/2\"	≥ 3 1/2\"	≥ 3 1/2\"

*1 THIS TABLE APPLIES FOR GREEN WALL WITH OPENINGS. SEE G-2 FOR GREEN WALLS WITHOUT OPENING DESIGN.

*2 THIS TABLE ASSUMES THAT THE STUB OUT IS LOCATED AT THE BOTTOM OF THE GREEN WALL.

*3 SUPPLY HEADER: SUPPLY WATER VERTICALLY FROM STUB OUT. END HEADER: INCREASES WATER CIRCULATION. TOP HEADER: SUPPLIES WATER TO POLY SUPPLY LINE FOR ISOLATED ZONES.

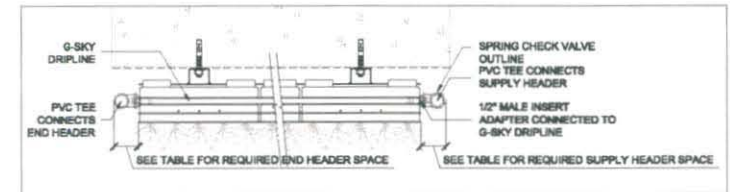
*4 FOR LESS THAN 150 GREEN WALL PANELS, THE SUPPLY HEADER MAY BE DESIGNED TO FIT BEHIND THE GREEN WALL.

*5 200 PANELS MAX. CAN BE IRRIGATED BY A BRANCHED OUT 1/2\" POLY SUPPLY LINE.

*6 THE IRRIGATION SYSTEM IS DESIGNED FOR CLEAN (CONTAMINANT FREE) WATER. CONSULT G-SKY FOR GREY WATER FILTER REQUIREMENTS.

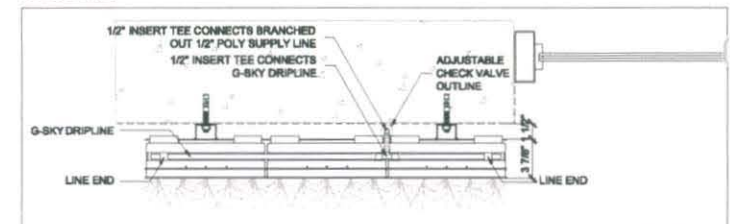
*7 BATTERY OPERATED LOW FLOW CONTROLLER (SEE G-2) MAY BE USED FOR LESS THAN 150 GREEN WALL PANELS.

DETAIL 1 - SUPPLY / END HEADERS PLAN SECTION



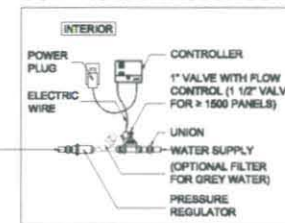
SCALE: 1\" = 1'-0\"
(CAD FILE #2202)

DETAIL 2 - BRANCHED OUT 1/2\" POLY SUPPLY LINE / LINE ENDS PLAN SECTION



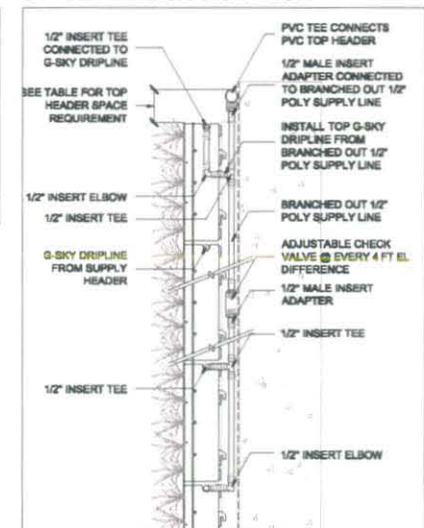
SCALE: 1\" = 1'-0\"
(CAD FILE #2206)

IRRIGATION MAIN CONTROLLER ASSEMBLY



SCALE: 1/2\" = 1'-0\"
(CAD FILE #2208)

DETAIL 3 - BRANCHED OUT 1/2\" POLY SUPPLY LINE SIDE SECTION



SCALE: 1\" = 1'-0\"
(CAD FILE #2207)

G-SKY GREEN WALL PANELS

PLAN / SECTION DETAILS FOR TYPICAL WALL



#208 689 RIDLEY PLACE
DELTA, BC V3M 6Y9
604-706-0811 ph 604-357-1315 fax
www.g-sky.com

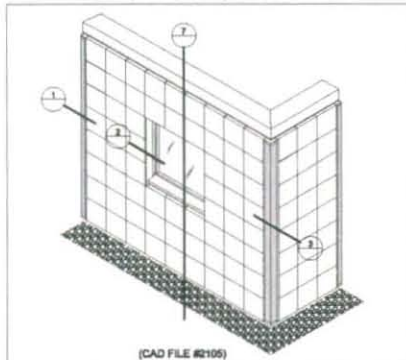
DRAWING #

G-4

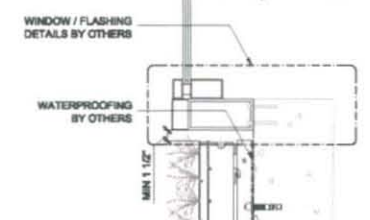
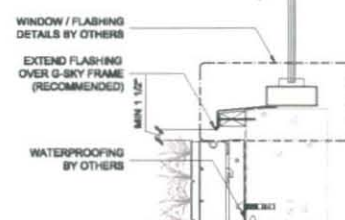
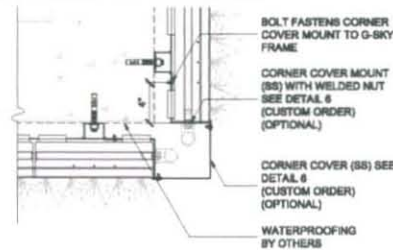
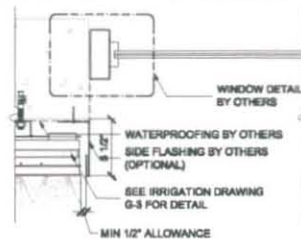
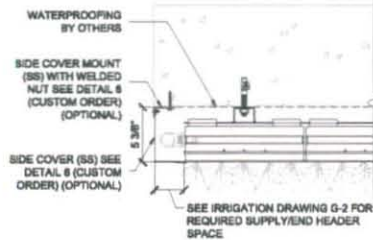
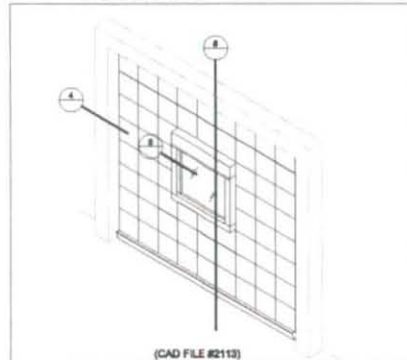
DATE: FEB 7, 2007

WALL MUST SUPPORT SATURATED GREEN WALL PANEL AND FRAME WEIGHT OF 30 LBS/QT. WATERPROOFING BY OTHERS

TYPICAL CONCRETE WALL



RECESSED CONCRETE WALL



1 EDGE DETAIL

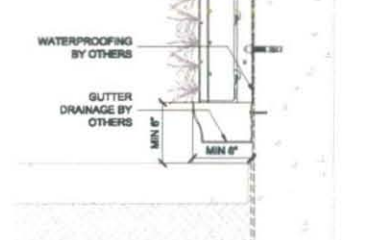
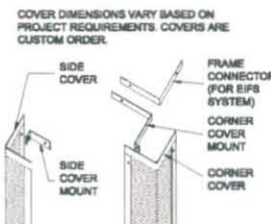
SCALE 1" = 1'-0" (CAD FILE #2105)

2 WINDOW SIDE DETAIL

SCALE 1" = 1'-0" (CAD FILE #2107)

3 CORNER DETAIL

SCALE 1" = 1'-0" (CAD FILE #2108)



4 EDGE BORDER DETAIL

SCALE 1" = 1'-0" (CAD FILE #2114)

5 WINDOW SIDE DETAIL 2

SCALE 1" = 1'-0" (CAD FILE #2115)

6 COVER DETAILS

SCALE 3/4" = 1'-0" (CAD FILE #1207)

7 TYPICAL WALL SECTION DETAIL

SCALE 1" = 1'-0" (CAD FILE #2109,2110,2111,2112)

8 RECESSED WALL SECTION DETAIL

SCALE 1" = 1'-0" (CAD FILE #2116,2117,2118,2119)

G-SKY GREEN WALL PANELS

EIFS SYSTEM



#208 889 RIDLEY PLACE
DELTA, BC V3M 0Y5
604-708-0611 ph 604-587-1315 fax
www.gsky.com

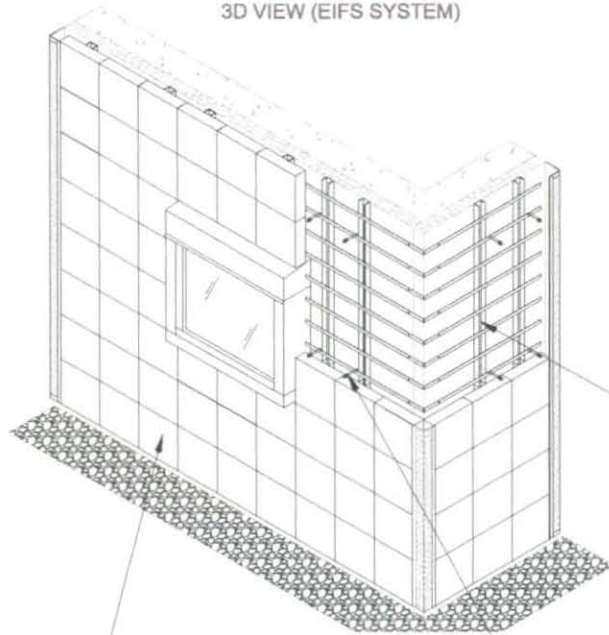
DRAWING #

G-5

DATE: FEB 7, 2007

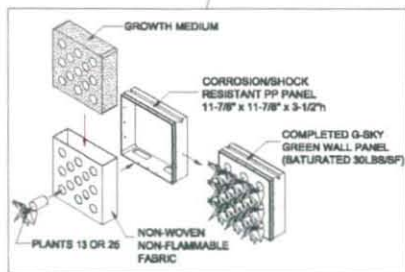
WALL MUST SUPPORT SATURATED GREEN WALL PANEL AND FRAME WEIGHT OF 30 LBS/SQ.FT.
WATERPROOFING BY OTHERS

3D VIEW (EIFS SYSTEM)



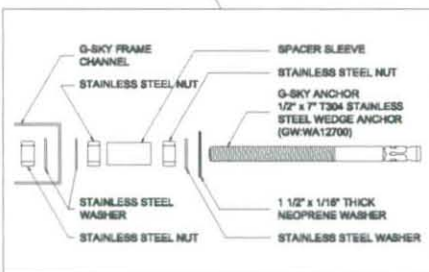
SCALE: 3/8" = 1'-0"
(CAD FILE #2120)

G-SKY GREEN WALL PANEL ASSEMBLY



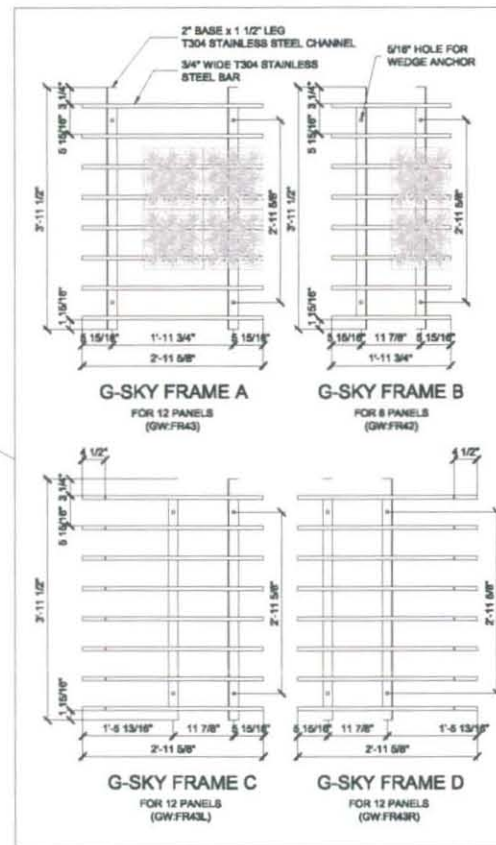
SCALE: 1/2" = 1'-0"
(CAD FILE #1101)

G-SKY ANCHOR DETAIL



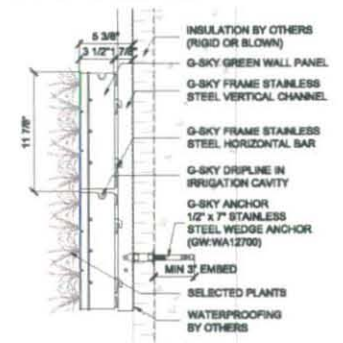
SCALE: 3/8" = 1'-0"
(CAD FILE #1206)

G-SKY FRAME DETAILS



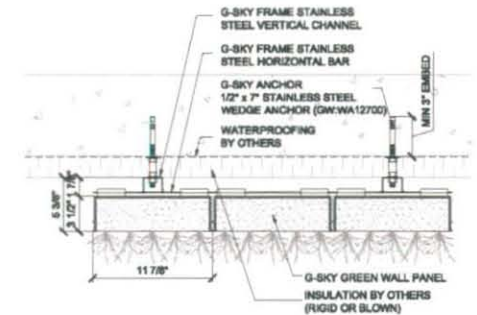
SCALE: 1/2" = 1'-0"
(CAD FILE #1201, 1202, 1203, 1204)

SIDE VIEW (EIFS SYSTEM)



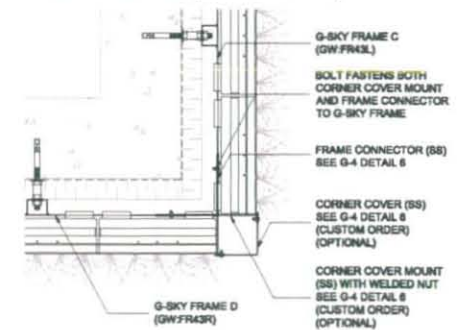
SCALE: 1" = 1'-0"
(CAD FILE #2121)

PLAN SECTION (EIFS SYSTEM)



SCALE: 1" = 1'-0"
(CAD FILE #2122)

CORNER DETAIL (EIFS SYSTEM)



SCALE: 1" = 1'-0"
(CAD FILE #2123)