Seattle Fire Department
Neighborhood Fire Station #39

Design Commission Review – Design Development
6 March 08

MILLER | HULL

Fire Station #39

12705 30th Avenue NE

Neighborhood I Station

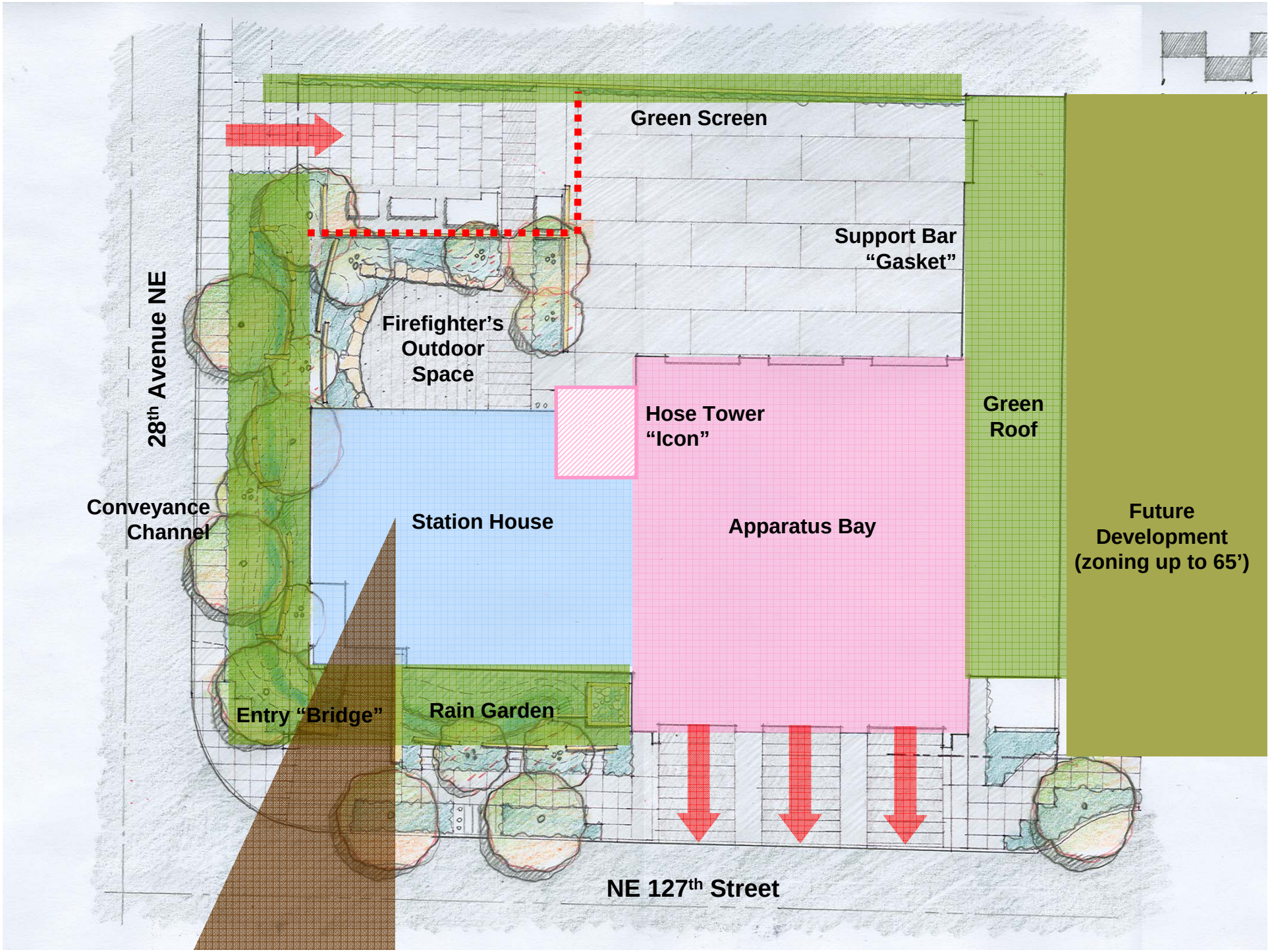
The existing station is in very poor condition due both to its age and type of construction. and is not suited to renovation.

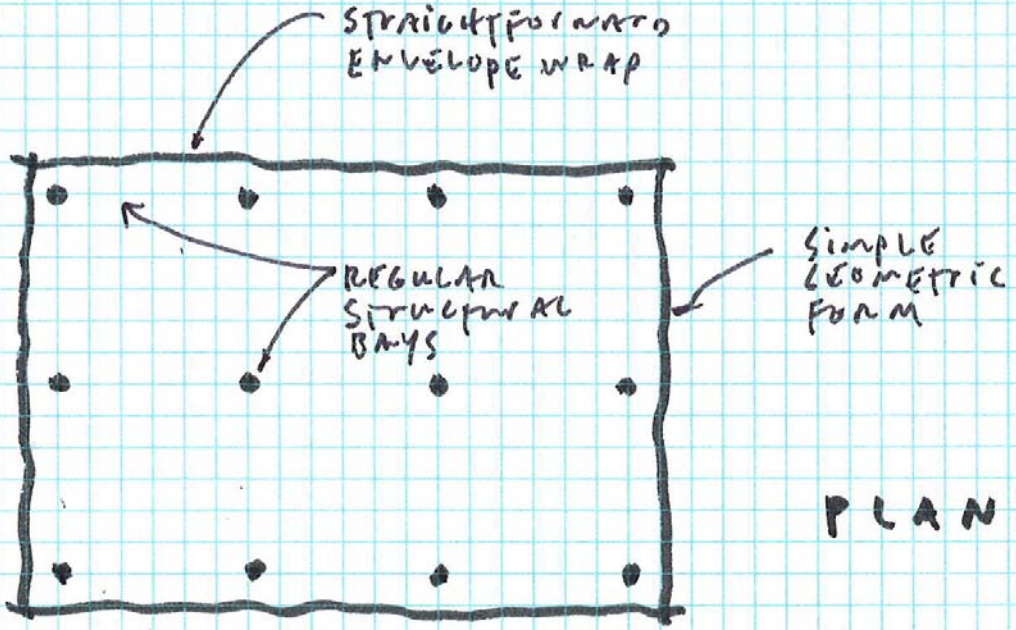
Station 39 will be rebuilt on its existing site and significantly expanded to 11,200sf.

Station 39 will house one of the City's three new earthquake fragmentation caches.

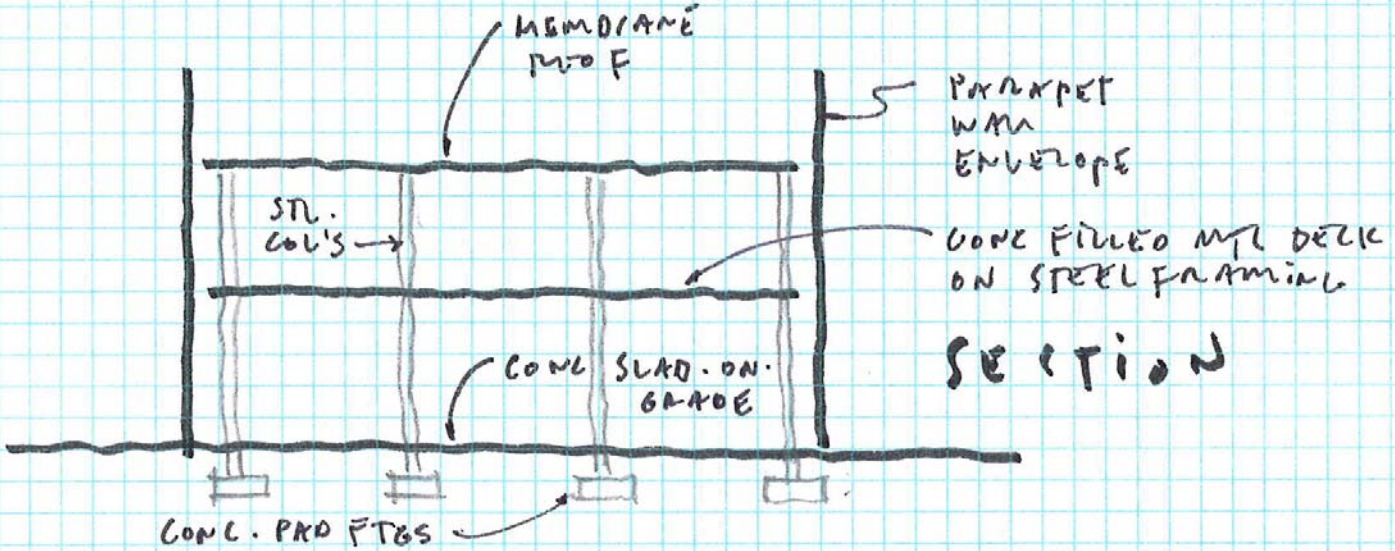
While the station is under construction, the existing station will continue to provide continuity of fire and aid service until the new station project is complete.


28th Avenue NE
30th Avenue NE
NE 127th Street
Lake City Way


Green Screen
Support Bar
"Gasket"
28th Avenue NE
Firefighter's
Outdoor
Space
Hose Tower
"Icon"
Green
Roof
Conveyance
Channel
Station House
Apparatus Bay
Future
Development
(zoning up to 65')
Entry "Bridge"
Rain Garden
NE 127th Street



PLAN



SECTION

Design Commission Comments

Schematic Design Presentation

6 December 2007

Commended the project for:

simplicity of building, structure & envelope

selecting cladding that ties to the neighborhood service center on 28th

developing sustainable stormwater ROW improvements

development of landscape amenities

functionality of the apparatus bay “gasket”

Encouraged team to:

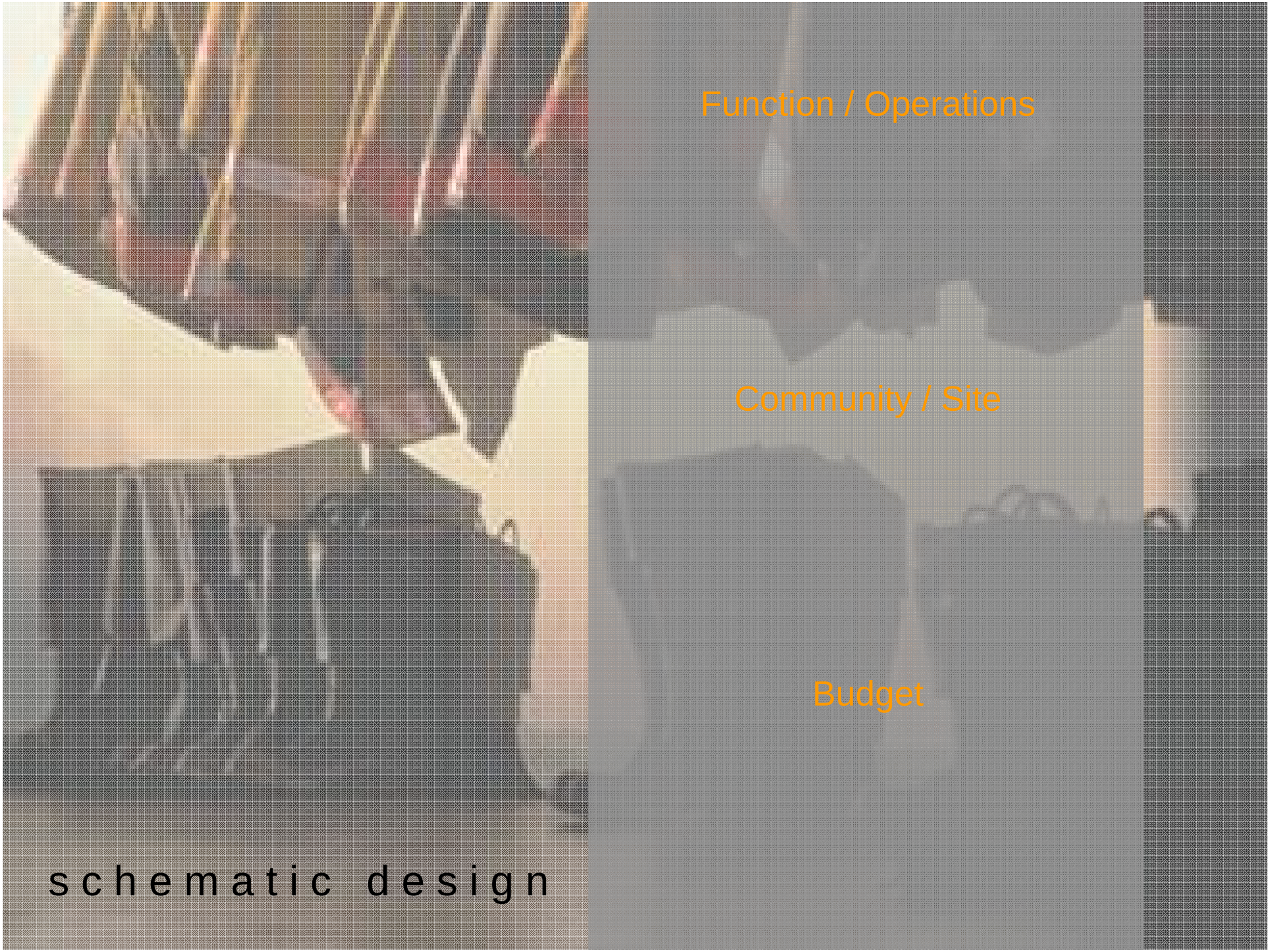
retain the 50’ hose tower if possible

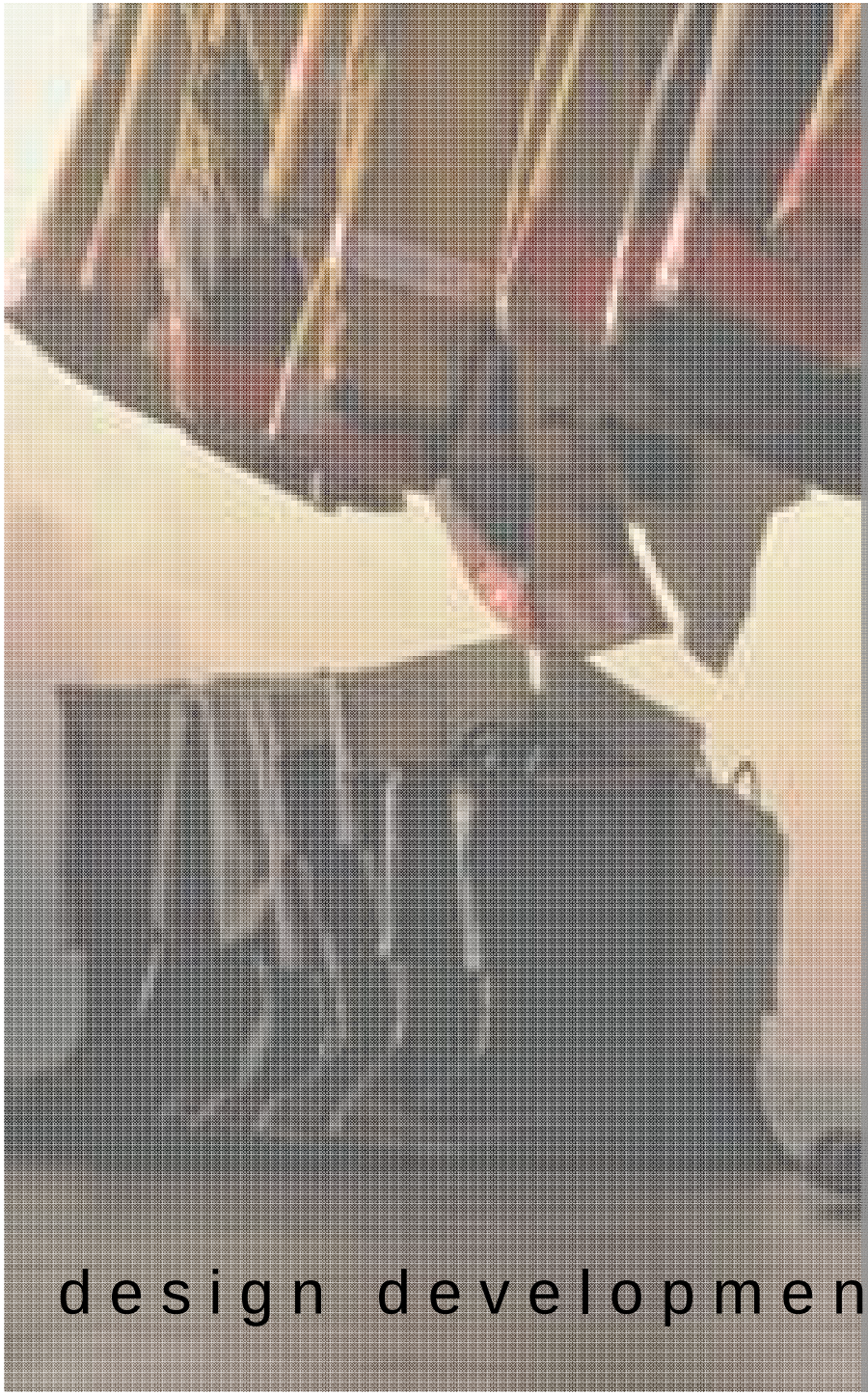
better integrate the art and the building

study amount of sunlight into the north terrace

provide more visible green materials

push to achieve LEED Gold if possible


Function / Operations
Community / Site
Budget
schematic design



Function / Operations

5 working meetings with SFD & FFD in DD

received direction from FFD to reduce height of hose tower to 35’ max.

fast acting doors to be bid as add. alt.

Community / Site

2nd public open house on 3/1/08

overwhelmingly positive support

enhance urban connections through development of rain garden & storm channel

Budget

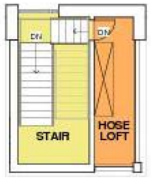
project MACC establish by levy program

project is on budget at 100% SD

DD estimate will be developed in April 08

d e s i g n d e v e l o p m e n t


Frag Cache
Maint/App Equip Sto
Bunker Gear Cln'g
Bunker Gear
EMS Storage
Receiving
Dstr Stor
Delivery Enclosure
Apparatus Bay
Hose Stor
Pole
Battery Handwash
Riser/WH
Janitor
Hallway
Elevator
Elev Equip
WC
App WC
Decon
Bunk
Beanery - Kitchen
Beanery - Dining
Offcr WC
Offcr Office
Offcr Bunk
Offcr Lockers
Planter
Public Lobby
Station Office
Administration
Circulation
Crew Areas
Equipment
Operations



2 TOWER LOFT - color

1/8" = 1'-0"

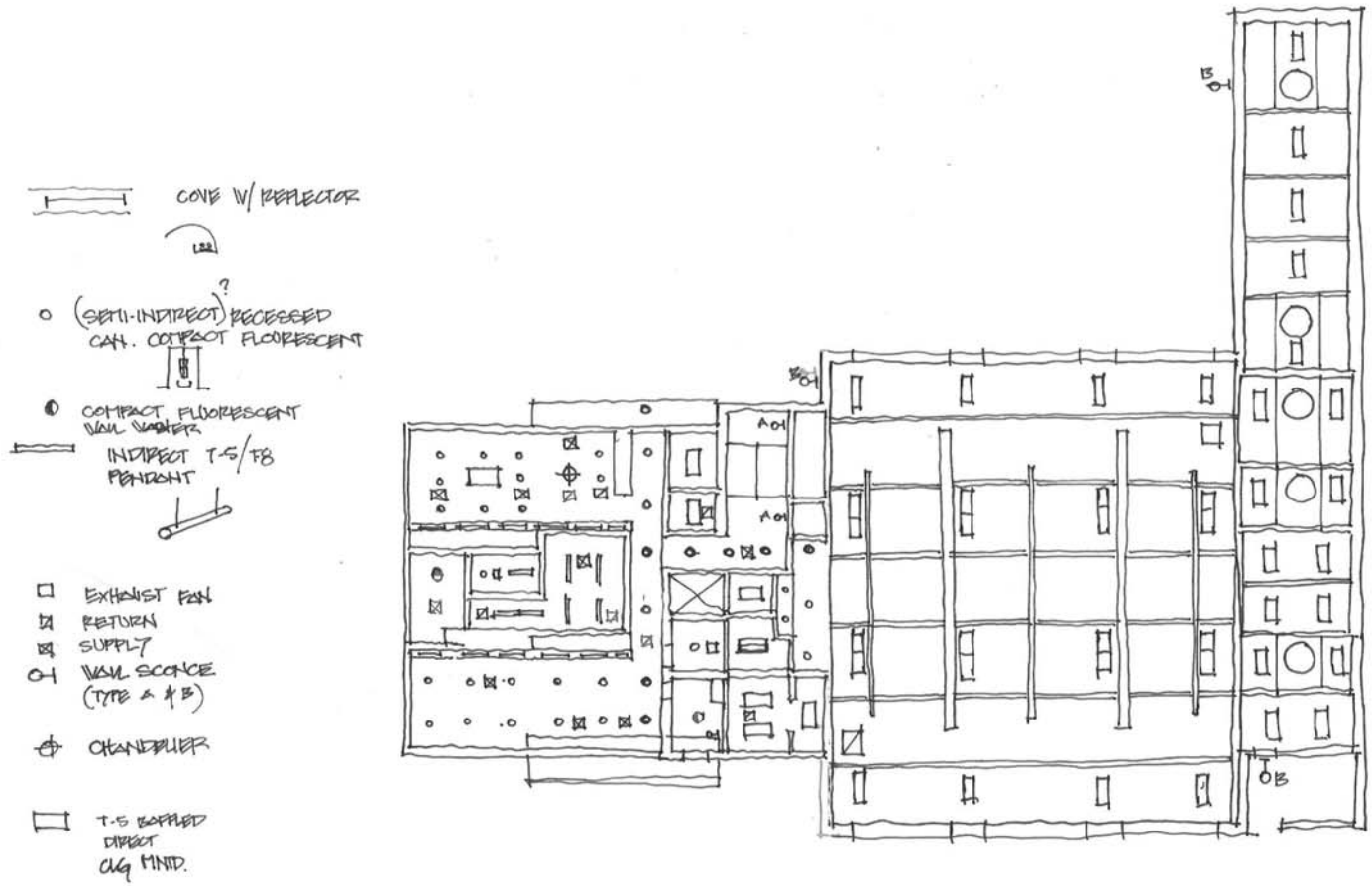
1 Level 2 Floor Plan - color

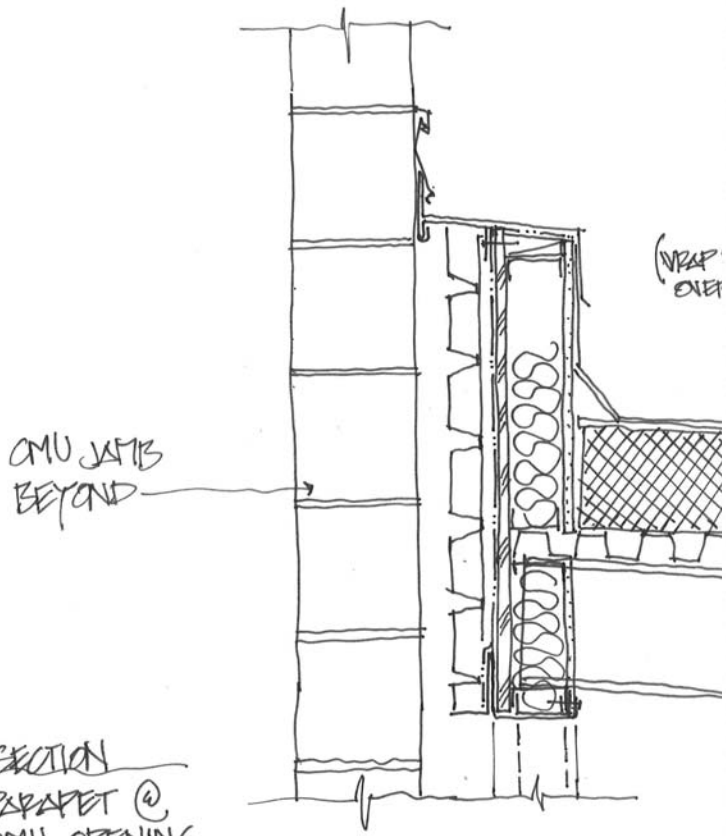
1/8" = 1'-0"

south elevation

west elevation

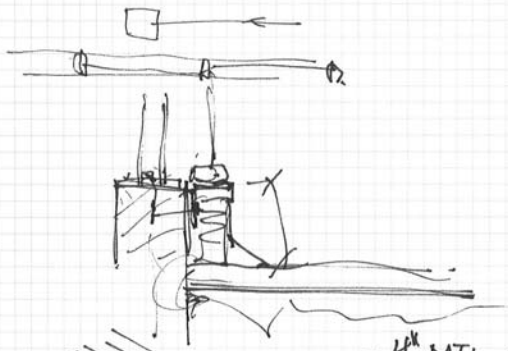
north elevation

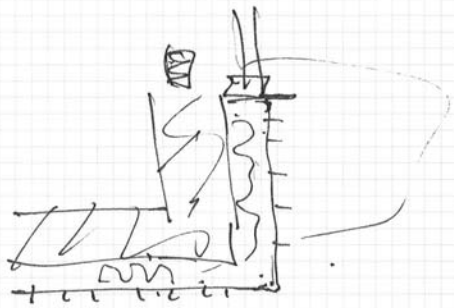

COVE W/ REFLECTOR
(SEMI-INDIRECT) RECESSED CAN. COMPACT FLUORESCENT
COMPACT FLUORESCENT WALL WASHER
INDIRECT T-5/F8 PENDANT
EXHAUST FAN
RETURN
SUPPLY
WALL SCONCE (TYPE A & B)
CHANDELIER
T-5 BAFFLED DIRECT C/G MNTD.
A01
A01
B01
B

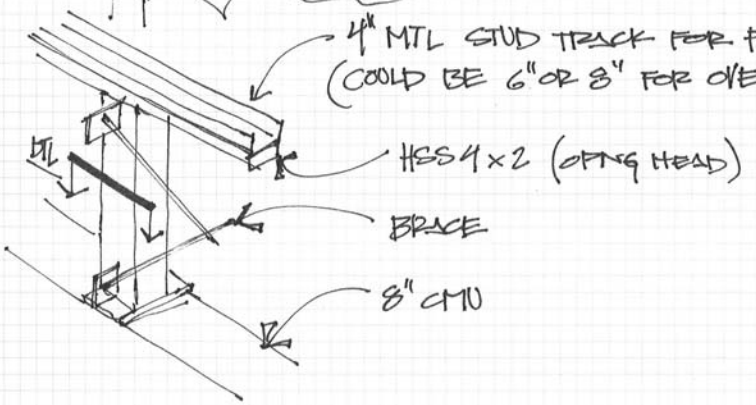


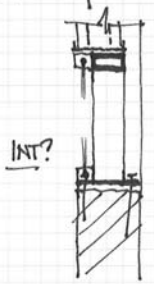
SECTION
PARAPET @
CMU OPENING

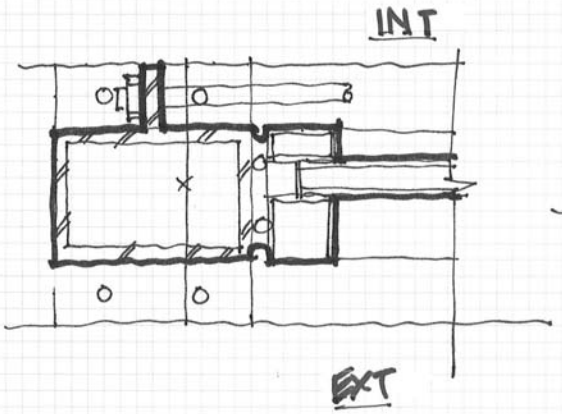
PLAN
PARAPET @
CMU OPENING



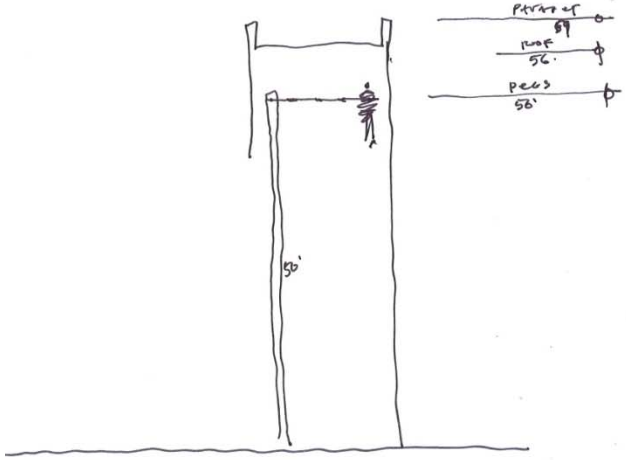


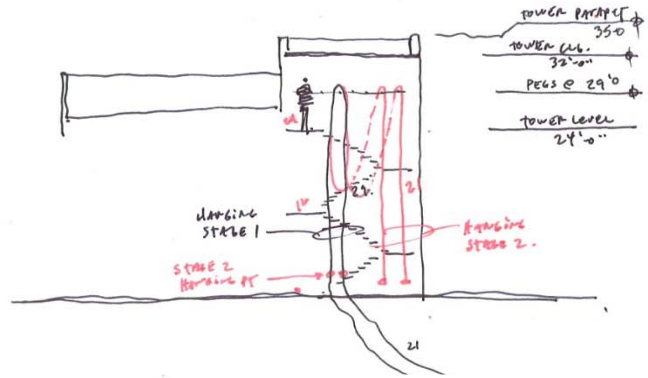


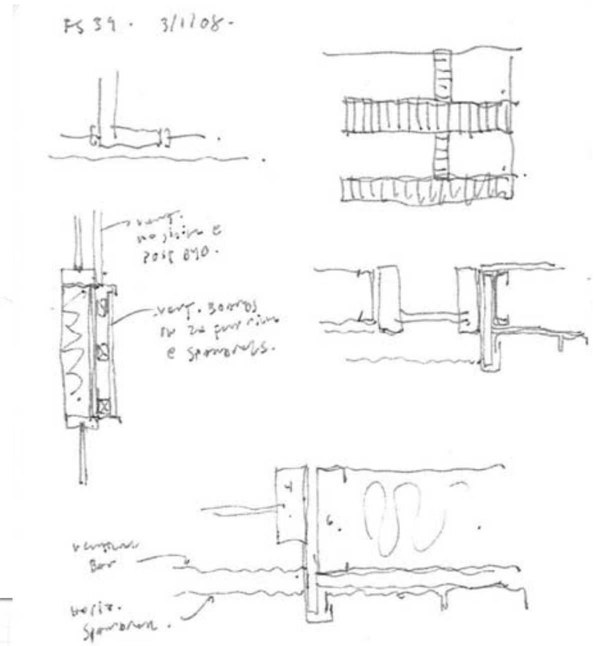


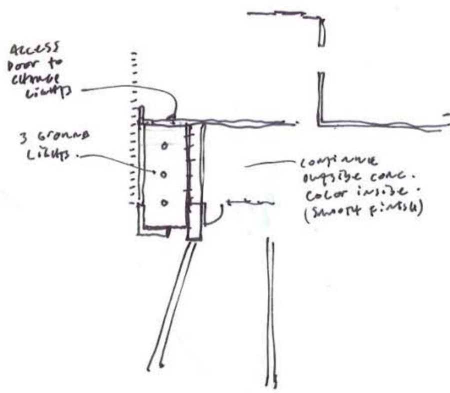


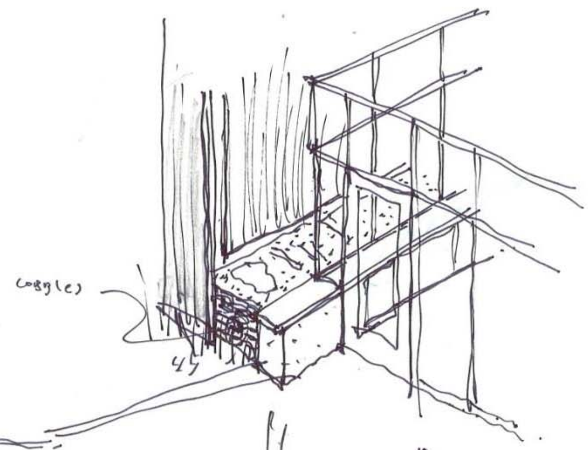
WINDOW JAMB @ BRACED FOR
PLAN DETAIL

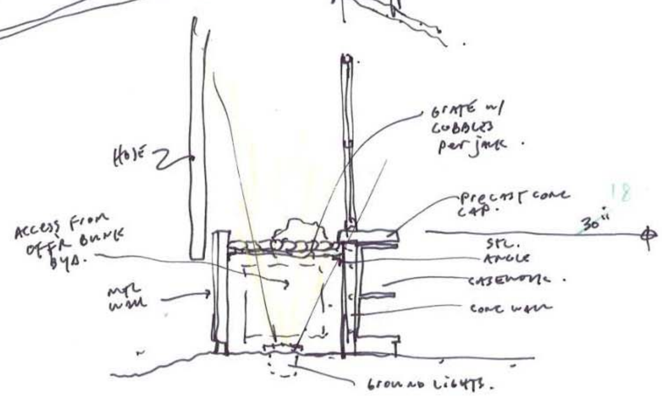

PARAPET
59
ROOF
56'
PEGS
50'
50'

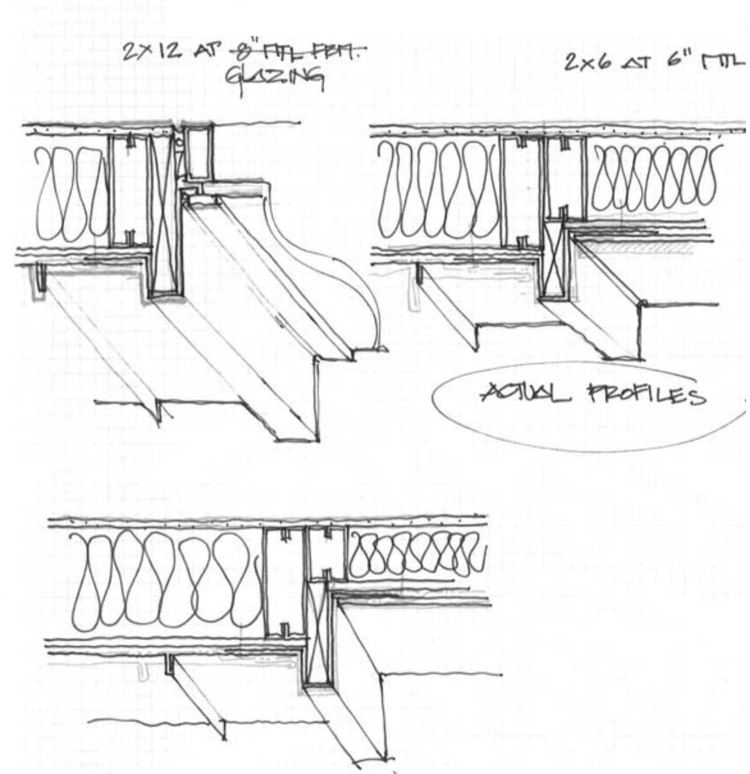

TOWER PARAPET
35'0
TOWER CLG.
32'0"
PEGS @ 29'0
TOWER LEVEL
24'0"
HANGING STAGE 1
STAGE 2 HANGING PT
HANGING STAGE 2.

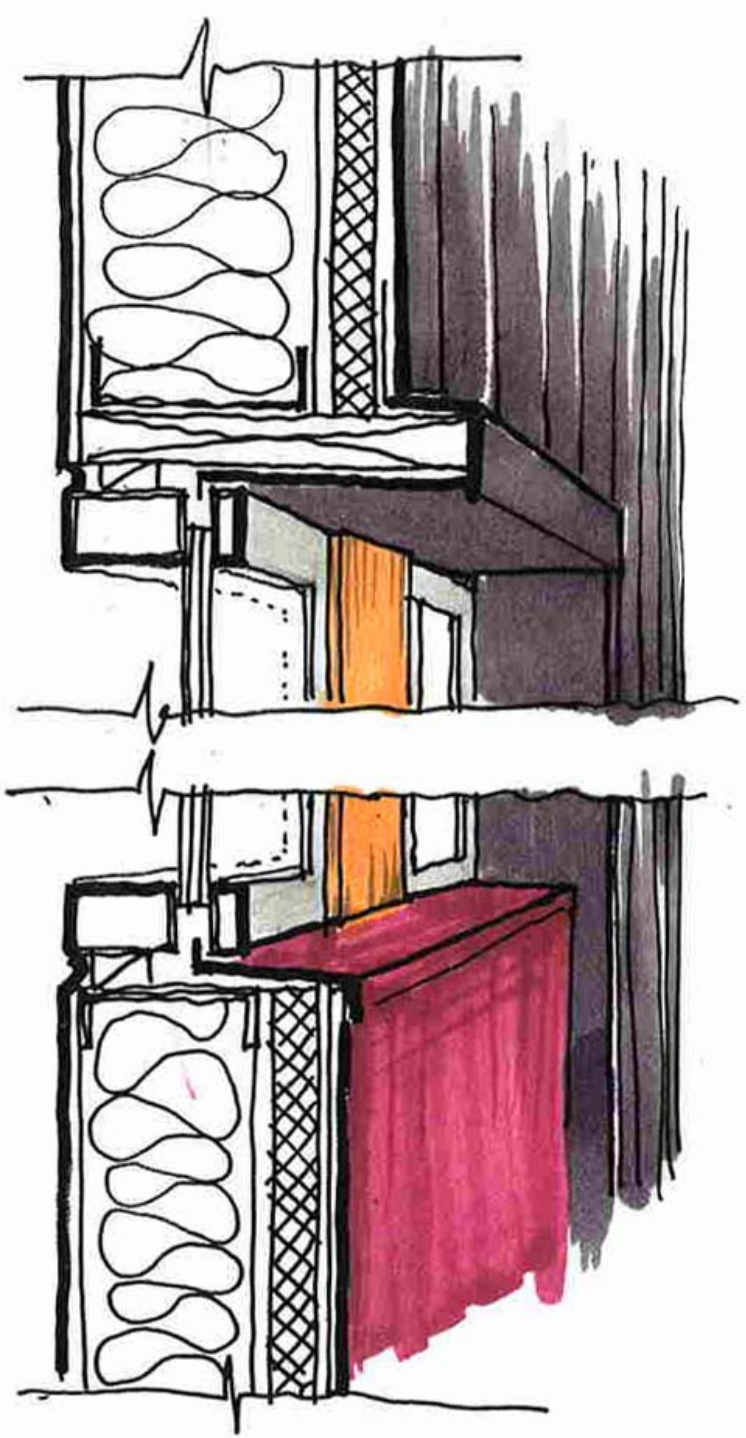

FS 39. 3/1/08.


ACCESS DOOR TO CHANGE LIGHTS
3 GROUND LIGHTS
(SMOOTH FINISH)

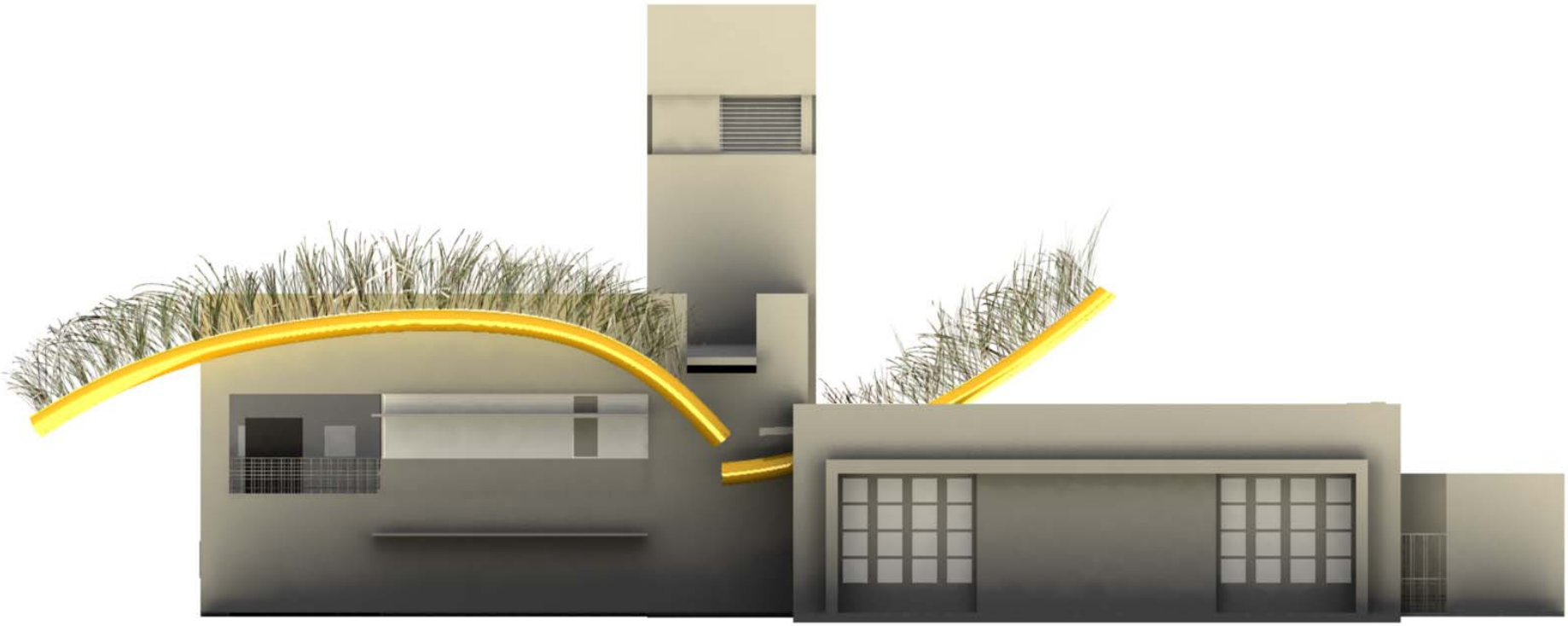

COBBLES

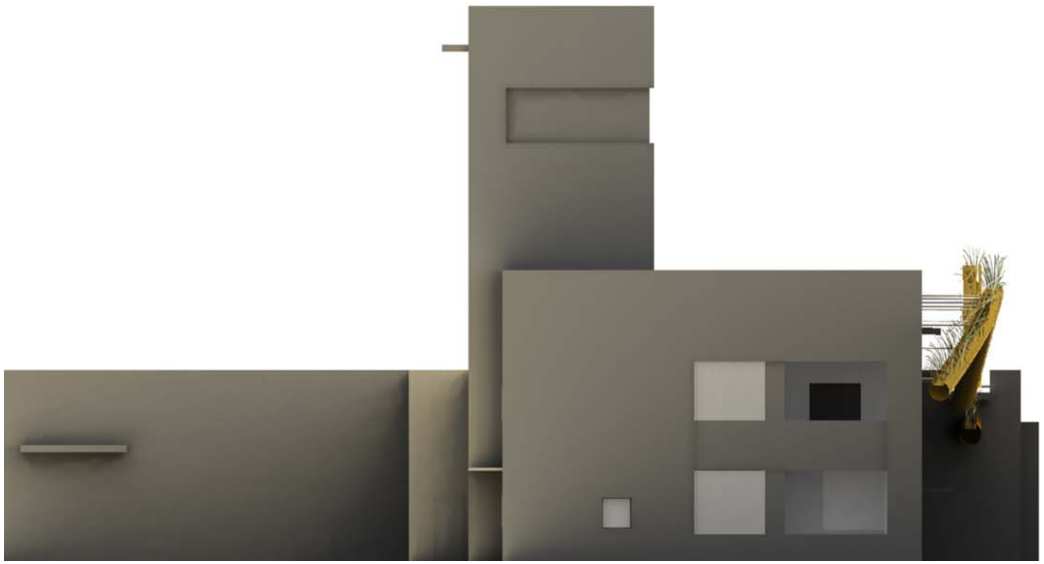

GRATE W/ COBBLES PER JAKE.
PRECAST CONC CAP.
30"
STL. ANGLE
CASEWORK.
CONC WALL
GROUND LIGHTS.


2X12 AT 8" MTL FRM.
GLAZING
2X6 AT 6" MTL
ACTUAL PROFILES




artist
collaboration






39
FIRE STATION


39


39
FIRE STATION


LEED status

LEED-NC

LEED-NC Version 2.2 Registered Project Checklist

Fire Station 39
Seattle, WA

Sustainable Sites — 14 Points

Team	GBC	Yes	?	No		
Arch		Y			Prereq 1	**Construction Activity Pollution Prevention**	Required
Arch		1			Credit 1	**Site Selection**	1
Arch		1			Credit 2	**Development Density & Community Connectivity**	1
_				1	Credit 3	**Brownfield Redevelopment**	1
Arch		1			Credit 4.1	**Alternative Transportation**, Public Transportation Access	1
Arch		1			Credit 4.2	**Alternative Transportation**, Bicycle Storage & Changing Rooms	1
Arch		1			Credit 4.3	**Alternative Transportation**, Low-Emitting and Fuel-Efficient Vehicles	1
Arch		1			Credit 4.4	**Alternative Transportation**, Parking Capacity	1
Lndscap	x		1		Credit 5.1	**Site Development**, Protect of Restore Habitat	1
Arch		1			Credit 5.2	**Site Development**, Maximize Open Space	1
Civil	x	1			Credit 6.1	**Stormwater Design**, Quantity Control	1
Civil	x	1			Credit 6.2	**Stormwater Design**, Quality Control	1
Civil		1			Credit 7.1	**Heat Island Effect**, Non-Roof	1
Arch		1			Credit 7.2	**Heat Island Effect**, Roof	1
Elec		1			Credit 8	**Light Pollution Reduction**	1

Water Efficiency — 5 Points

Team	GBC	Yes	?	No		
Lndscap		1			Credit 1.1	**Water Efficient Landscaping**, Reduce by 50%	1
Lndscap			1		Credit 1.2	**Water Efficient Landscaping**, No Potable Use or No Irrigation	1
_				1	Credit 2	**Innovative Wastewater Technologies**	1
Mech		1			Credit 3.1	**Water Use Reduction**, 20% Reduction	1
Mech			1		Credit 3.2	**Water Use Reduction**, 30% Reduction	1

Energy & Atmosphere — 17 Points

Team	GBC	Yes	?	No		
FFD		Y			Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Required
Mech		Y			Prereq 2	**Minimum Energy Performance**	Required
Mech		Y			Prereq 3	**Fundamental Refrigerant Management**	Required
Mech		4		6	Credit 1	**Optimize Energy Performance**	1 to 10
_				3	Credit 2	**On-Site Renewable Energy**	1 to 3
FFD		1			Credit 3	**Enhanced Commissioning**	1
_				1	Credit 4	**Enhanced Refrigerant Management**	1
Mech			1		Credit 5	**Measurement & Verification**	1
FFD			1		Credit 6	**Green Power**	1

Materials & Resources — 13 Points

Team	GBC	Yes	?	No		
Arch		Y			Prereq 1	**Storage & Collection of Recyclables**	Required
_				1	Credit 1.1	**Building Reuse**, Maintain 75% of Existing Walls, Floors & Roof	1
_				1	Credit 1.2	**Building Reuse**, Maintain 95% of Existing Walls, Floors & Roof	1
_				1	Credit 1.3	**Building Reuse**, Maintain 50% of Interior Non-Structural Elements	1
Arch		1			Credit 2.1	**Construction Waste Management**, Divert 50% from Disposal	1
Arch		1			Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal	1
Arch			1		Credit 3.1	**Materials Reuse**, 5%	1
_				1	Credit 3.2	**Materials Reuse**,10%	1
Arch/Struct		1			Credit 4.1	**Recycled Content**, 10% (post-consumer + ½ pre-consumer)	1
Arch/Struct			1		Credit 4.2	**Recycled Content**, 20% (post-consumer + ½ pre-consumer)	1
Arch/Lndscp		1			Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured Regio	1
Arch/Lndscp			1		Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured Regio	1
Arch		1			Credit 6	**Rapidly Renewable Materials**	1
Arch		1			Credit 7	**Certified Wood**	1

Indoor Environmental Quality — 15 Points

Team	GBC	Yes	?	No		
Mech		Y			Prereq 1	**Minimum IAQ Performance**	Required
FFD		Y			Prereq 2	**Environmental Tobacco Smoke** (ETS) **Control**	Required
_				1	Credit 1	**Outdoor Air Delivery Monitoring**	1
Arch/Mech			1		Credit 2	**Increased Ventilation**	1
Arch/FFD		1			Credit 3.1	**Construction IAQ Management Plan**, During Construction	1
Arch/FFD		1			Credit 3.2	**Construction IAQ Management Plan**, Before Occupancy	1
Arch		1			Credit 4.1	**Low-Emitting Materials**, Adhesives & Sealants	1
Arch		1			Credit 4.2	**Low-Emitting Materials**, Paints & Coatings	1
Arch		1			Credit 4.3	**Low-Emitting Materials**, Carpet Systems	1
Arch/Struct		1			Credit 4.4	**Low-Emitting Materials**, Composite Wood & Agrifiber Products	1
_				1	Credit 5	**Indoor Chemical & Pollutant Source Control**	1
Elec		1			Credit 6.1	**Controllability of Systems**, Lighting	1
Mech		1			Credit 6.2	**Controllability of Systems**, Thermal Comfort	1
Mech		1			Credit 7.1	**Thermal Comfort**, Design	1
Mech/Arch/FFD		1			Credit 7.2	**Thermal Comfort**, Verification	1
Arch		1			Credit 8.1	**Daylight & Views**, Daylight 75% of Spaces	1
Arch			1		Credit 8.2	**Daylight & Views**, Views for 90% of Spaces	1

Innovation & Design Process — 5 Points

Team	GBC	Yes	?	No		
Mech	x	1			Credit 1.1	**Innovation in Design**: VRV First Use Seattle	1
Civil	x		1		Credit 1.2	**Innovation in Design**: Rainwater Harvesting	1
Lndscp	x		1		Credit 1.3	**Innovation in Design**: Rain garden	1
_				1	Credit 1.4	**Innovation in Design**: Provide Specific Title	1
ALL		1			Credit 2	**LEED® Accredited Professional**	1

Project Totals (pre-certification estimates) — 69 Points

Yes	?	No
38	12	19

Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-69 points

Certified: 26-32 credits
Silver 33-38 credits
Gold: 39-51 credits
Platinum: 52-69 credits

Fire Station 39
38 Credits
per update
at Mid-DD Phase

40-41 Credits
with rainwater harvesting for toilet flushing


ost estimate & schedule update


discussion