

Structures - Industries

Historic structures of the Industries landscape character area include the North Caponier and fortification walls and magazines of Batteries Halleck and Rosecrans; buttresses supporting the Model Industries Building; oil tanks and other structures associated with the Powerhouse; Cross Island Tunnel; and the Metal Detector Shed.

Table 20: Structures - Industries - Figure 3-311

<i>Feature (Type)</i>	<i>Bldg #</i>	<i>Figure #</i>	<i>Description</i>	<i>Condition</i>
Fortification Wall and Magazines- Powerhouse/Stores/ QM Warehouse (1867) <ul style="list-style-type: none"> • MBSR4 • MBSR5 • MBSR6 • MBSF3 		3 - 249	Fortification wall near Stores/QM Warehouse with three visible layers of construction: brick wall at bottom, mortared stone in middle, and brick at top. 1872 Traverse walls intact – two brick archways formed tunnels on covered way through earthen traverses between where pairs of cannon were emplaced – Quartermaster Storehouse, Powerhouse, Garage built in 1921 – electric Powerhouse and heating furnaces (1985 NHL) <ul style="list-style-type: none"> • Bombproof rooms: • MBSR4: Decorative concrete railing at top of wall, NPS 2000 • MBSR5: Steel pipe and safety mesh at top of wall at location of bridge to Stores/QM Warehouse, NPS 2000 • MBSR6: Decorative concrete railing at top of wall, NPS 2000 • MBSF3: NPS cyclone fence, 2003 	Good
Fortification Wall - Battery Halleck		3 -250 3- 251	Brick scarp walls flanking both sides of North Caponier <ul style="list-style-type: none"> • Stairs and Sentry Walk 	Good
Cross Island Tunnel		3-252 3-253	Connects Powerhouse with New Industries Building	Good

Table 20: Structures - Industries, continued - Figure 3-311

<i>Feature (Type)</i>	<i>Bldg #</i>	<i>Figure #</i>	<i>Description</i>	<i>Condition</i>
North Caponier		3-254	Built of concrete and brick - Oil Tank #1 - lower floor was powder magazine - 8 24-pound howitzers mounted on second floor to defend adjacent batteries - 8" Columbiad on top with infantry parapet - 1872 demolition of gunroom second floor and drawbridge during island wide battery rehabs - magazine remains today (Thompson 1979: Map 3) - Bunker Oil (B.O.) Tank (1963) - adjacent tank called "Hot Well" (1928) - buildings around it came in part in 1910-1912 - electric Powerhouse and heating furnaces (1985 NHL) (Barker, 2009:34)	Fair
Oil Tank No. 1 in North Caponier magazine	2	3-255	Large metal tank in North Caponier magazine	Fair
Oil Tanks No. 2		3-256	Large metal tank exposed northwest of Powerhouse	Good
Saltwater Intake Port and Stairs		3-257	Concrete wet well, piping, and access stairs (Barker 2009; 104)	Fair
Fortification Wall - Battery Rosecrans (Part of North Battery, Battery III, Battery IV) with MBSF15		3-258 3-259	Brick wall underneath the Model Industries Building - partially visible inside basement (Thompson 1979: Map 9 and Historical Base Map 1 (1867); Kelly 1981:1-4, Category 1; Delgado et al. 1992:42; Chappell 1993) MBSF15 is a Prison Cyclone fence	Wall: Good MBSF15: Poor
Buttress 1 and Buttress 2		3-260	Fortification walls perpendicular to batteries	Good
Metal Detector Shed		3-261	Wooden Building west of Stockade/Recreation Yard	Good
Firebox #4		3-262	Concrete shed south of New Industries Building	Good
Incinerator	85	3-263	Includes dump chute to bay	Poor
Greenhouse		3-264	Remnant reinforced concrete foundation	Poor



Figure 3 - 249. Fortification Wall - Stores/QM Warehouse with MBSR4 above, viewed from south of Stores/QM Warehouse. Note four layers of construction: brick wall at bottom, mortared stone in middle, brick at top and concrete railing above. (MBD DSC02665.JPG, MBD P1020585.JPG)

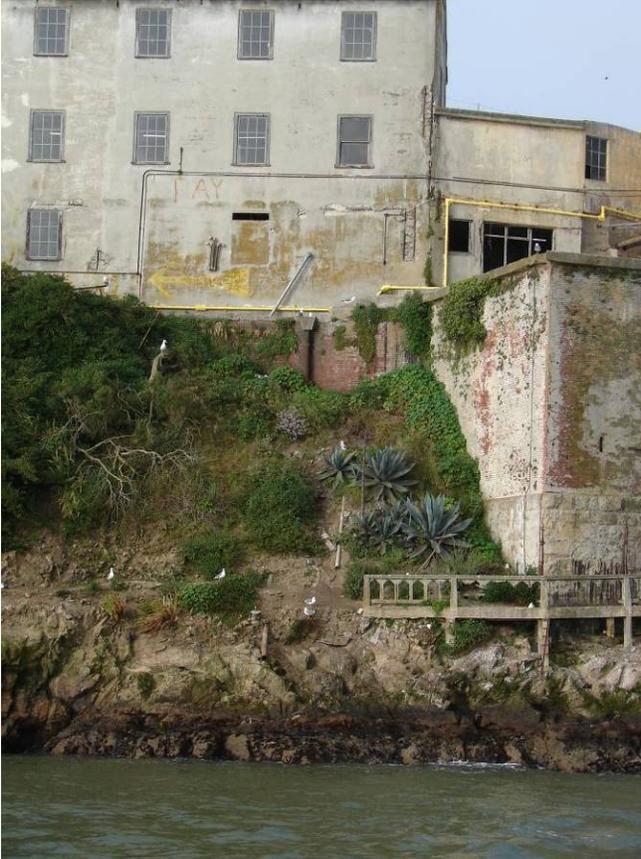


Figure 3 - 250. Fortification Wall - Battery Halleck at North Caponier in mid ground (MBD: DSC02988.JPG)



Figure 3 - 251. Battery Halleck - Stairs and Sentry Walk on Fortification Wall (MBD: DSC02795.JPG)



Figure 3 - 252. Fortification Tunnel portal (right) with Stairs to Stores/QM Warehouse (left) as viewed from Powerhouse (MBD DSC02703.JPG)



Figure 3 - 253. Interior of Fortification Tunnel, view is west towards New Industries Building (MBD DSC02726.JPG)



Figure 3 - 254. Left to right: North Caponier, hot well, smoke stack, and saltwater intake port. (MBD DSC02981.JPG)

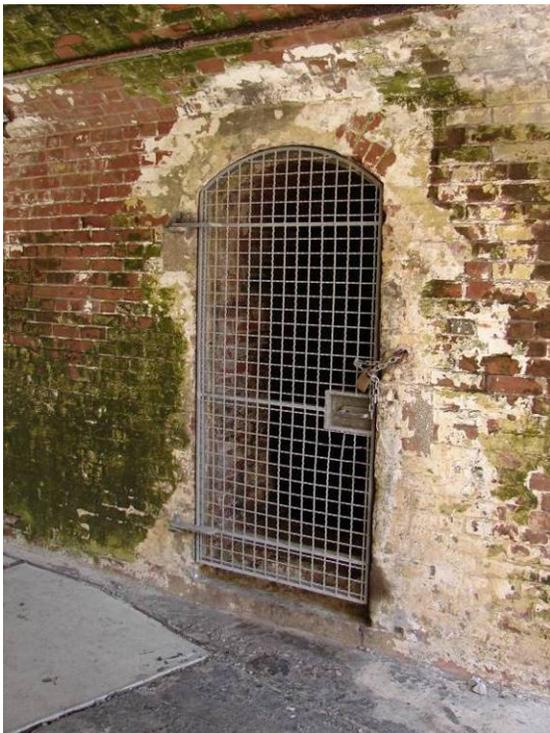


Figure 3 - 255. Oil Tank No. 1 (in North Caponier magazine) (MBD DSC02688.JPG)



Figure 3 - 256. Oil Tank No. 2 (MBD DSC02735.JPG)



Figure 3 - 257. Saltwater Intake Port and Stairs (MBD DSC02767.JPG)



Figure 3 - 258. Northwest corner of Fortification Wall - Battery Rosecrans; serving as foundation for a portion of Model Industries Building (above). Remnant fencing is MBSF15; Sentry Walk was located between building and fence. (MBD: DSC02743.JPG)



Figure 3 - 259. Fortification Wall - Battery Rosecrans in interior of Model Industries Building lower level (MBD: DSC02740.JPG)

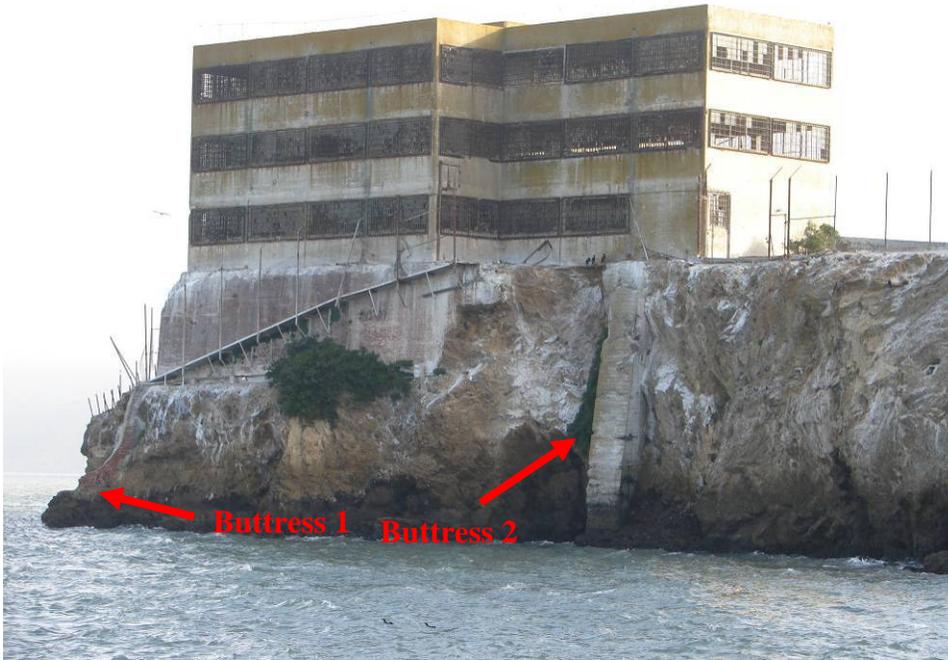


Figure 3 - 260. Buttresses and steel catwalk on southwest side of Model Industries Building (MBD DSC02957.JPG)



Figure 3 - 261. Metal Detector Shed (MBD DSC02799.JPG)



Figure 3 - 262. Firebox #4, located near Incinerator (MBD DSC02846.JPG)



Figure 3 - 263. Incinerator ruins and dump chute, as seen from Lower West Road; poles are remnants of Federal Penitentiary period security fences (MBD DSC03269.JPG)



Figure 3 - 264. Greenhouse foundation and view to San Francisco (MBD DSC03248.JPG)

Small-Scale Features - Industries

Small scale features of the Industries landscape character area include a utility chase, the northwest seawall, Perimeter Sentry Walk, security fencing from the Federal Penitentiary period and various staircases and catwalks.

Table 21: Small Scale Features - Industries - Figure 3-311

<i>Feature (Type)</i>	<i>Bldg #</i>	<i>Figure #</i>	<i>Description</i>	<i>Condition</i>
Utility Chase with adjacent drain		3-265	Concrete-covered utility trench with adjacent concrete drain pan	Good
West Seawall/Concrete Pilings		3-266	Seawall of quarry dock – recent stabilization with concrete pilings	Fair
Staircases to West Seawall		3-267	Concrete stairs on west slope above Northwest Seawall	Poor
Staircase to Foghorn North		3-268	Wood stairs from Model Industries Yard to Foghorn North	Good
Staircase to New Industries • SR59		3-269	Concrete stairs with concrete handrail • SR59: Concrete post with wood cap	Stairs: Fair SR59: Poor
Gardener's Stairs		3-269	Concrete stairs south of Stairs to New Industries	Stairs: Fair
Incinerator Rubble Wall		3-270	Wall below Incinerator, composed of salvaged concrete blocks and portions of brick walls	Poor
Staircase to Stores/QM Warehouse 2 • MBSR12 • MBSR13		3-271	Cast in place concrete stairs with steel pipe railings	Stairs: Good Railings: Poor
MBSF3		3-271 3-272	NPS Cyclone fence lining area south of Powerhouse	Good
Staircase to Utility Tunnel		3-273	Narrow cast in place concrete stairs with concrete cheekwalls	Fair
Staircase to Stores/QM Warehouse 1 with MBSR7, MBSR11		3-274	Lower portion: narrow cast in place concrete stairs with concrete cheekwalls Upper portion: Steel catwalk with steel pipe railings	Lower portion: Good Upper portion and railings: Poor
MBSF1		3-275	Prison Cyclone Security Fencing on northeast end of North Terrace slope	Poor
Stairs to Smokestack		3-276	Concrete stairs from Powerhouse to base of smokestack, no handrails	Poor
'Warning' Sign on North Caponier		3-277	Painted lettering on wood boards mounted on building face	Poor

Table 21: Small Scale Features - Industries, continued - Figure 3-311

<i>Feature (Type)</i>	<i>Bldg #</i>	<i>Figure #</i>	<i>Description</i>	<i>Condition</i>
Powerhouse Rubble Wall		3-278	Wall made of remnant materials of reinforced concrete buildings	Fair
Stockade/Recreation Yard Staircase • SR58 • Concrete Posts		3-279	Cast in place concrete steps with steel pipe handrails • SR58: Replacement steel pipe handrail, NPS 1980	Stairs: Good SR58: Good Concrete Posts: Poor
SR60 at Recreation Yard Slope		3-280	Prison Cyclone security fence south and parallel to Stockade/Recreation Yard Staircase.	Poor
Staircase north of Metal Detector Shed to New Industries Building		3-281	Concrete block stairs	Poor
Path to New Industries • MBSR37		3-282	Pedestrian Path from New Industries to Detector Shed – connects to Catwalks 1 and 2 • MBSR37: Concrete post with wood cap, circa 1940	Fair MBSR37: Poor
Catwalk #1 • MBSR32 • MBSR33		3-283	Catwalk to New Industries Stairs • MBSR32: Steel pipe rail, circa 1940 • MBSR33: Steel pipe rail, circa 1940	Poor MBSR32: Good MBSR33: Good
Catwalk #2 • MBSR34 • MBSR35 • MBSR38		3-282	Catwalk to New Industries upper floor • MBSR34: Steel pipe rail, circa 1940 • MBSR35: Steel pipe rail, circa 1940 • MBSR38: Steel pipe panel, NPS 1990	Good MBSR34: Good MBSR35: Good MBSR38: Good
MBSF17, and MBSF18 in Model Industries Yard		3-284	MBSF17 and MBSF18 are both NPS Cyclone security fences	Good
Security Fence and Foundation • MBSF5		3-285 3-286	Modern concrete foundation with embedded steel pipes for security fence MBSF5 (NPS cyclone, 2003) on top of original concrete foundation	Foundation: Poor MBSF5: Good
West Road – North Side along New Industries Building		3-286	Concrete roadway between New Industries Building and MBSF5	Road: Fair Fence: Good

Table 21: Small Scale Features - Industries, continued - Figure 3-311

<i>Feature (Type)</i>	<i>Bldg #</i>	<i>Figure #</i>	<i>Description</i>	<i>Condition</i>
Stone Wall west of Greenhouse		3-287	Mortared stone retaining wall of variable height below dirt road	Good
Security Fence and Foundation • MBSF15		3-288	Concrete foundation with embedded steel pipes for security fence MBSF15 • MBSF15: 14' Prison cyclone fence, circa 1930	Poor
Security Fence and Foundation • MBSF9		3-289	Concrete foundation with embedded steel pipes for security fence MBSF9, along Sentry Walk • MBSF9: Prison cyclone fence, circa 1940	Poor
Security Fence and Foundation • MBSF8		3-289 3-290	Concrete foundation with embedded steel pipes for security fence MBSF8, located on top of buried Fortification Wall – Battery Halleck • MBSF8: Prison cyclone fence, circa 1940	Foundation: Fair MBSF8: Poor
Road to Industries		3-291	Paved road from Wharf to Model Industries Yard and New Industries Loading Area	Good
Utility Chase and Walk MBSR16, with MBSF12		3-292	Concrete structure with utility chase and adjacent wall. Functioned as walkway for US Army convicts walking from Prison to Model Industries and Laundry Complex • MBSR16: Concrete post & wood cap, circa 1920 • MBSF12: Steel pipe and chain link, NPS 2005	Chase/Ramp: Fair MBSR16: Poor MBSF12: Good
Security Fence and Foundation • MBSF4		3-293	Modern concrete foundation with embedded steel pipes for security fence MBSF4 next to remnants of earlier security fence and concrete curb • MBSF4: NPS cyclone fence, 2003	Fair

Table 21: Small Scale Features - Industries, continued - Figure 3-311

<i>Feature (Type)</i>	<i>Bldg #</i>	<i>Figure #</i>	<i>Description</i>	<i>Condition</i>
New Industries Loading Dock • MBSR36 • MBSF19		3-294	Paved service area with wood dock, MBSR36, catwalk footings, and MBSF19 MBSR36: Steel pipe railing, circa 1940 MBSF19: Steel pipe and chain link fence, NPS 2005	MBSR36: Fair MBSF19: Good
Perimeter Sentry Walk				Poor
Path at east side seawall		3-295	Dirt Path adjacent to seawall, Concrete seatwall at east side	Fair
Concrete Stairs		3-296	Concrete Stairs at north end of east side seawall	Fair
Cobble Wall		3-296	Cobble Wall north of eastside seawall	Fair
Indian Symbol – ‘Indian Land’ and ‘Pay’		3-297	Indian Symbols ‘Indian Land,’ ‘Pay,’ and others on East Side of Stores/QM Warehouse	Poor
MBSR14		3-298	Decorative Concrete Railing bordering Perimeter Sentry Walk at North Laponier	Good
Stone and Concrete Stairs		3-299	Stairs leading from Perimeter Sentry Walk at North Caponier to area between smokestack and Salt Water Intake	Fair
MBSR15		3-299	Decorative Concrete Railing along Perimeter Sentry Walk in area above Salt Water Intake	Poor
Walk at Salt Water Intake		3-300	Narrow Section of Perimeter Sentry Walk at area above Salt Water Intake	Poor
Walk between Powerhouse and Model Industries		3-301	Walk bordered by Remnant Fence Security Fencing MBSF9; MBSF8 Entanglement Remnants present on shoreline	Poor
Retaining Walls along east side of Walk		3-302	Wood and Concrete Retaining Walls supporting Perimeter Sentry Walk	Poor
Walk near Fog Signal North		3-303	Narrow Dirt Path and Eroding Slope	Poor
Entanglements at Model Industries		3-304	Entanglement Remnants on Slope north of Model Industries	Poor
North Side Catwalk with MBSF15	82	3-305	Inclined steel catwalk around Model Industries Building and Battery Rosecrans. Cantilevered over Battery Rosecrans’ scarp wall MBSF15: 14’ Prison cyclone fence, circa 1930	Poor



Figure 3 - 265. Utility Chase with adjacent drain pan and Fortification Wall - Quartermaster, on Road to Industries looking south towards Post Exchange (MBD DSC02668.JPG)



Figure 3 - 266. Northwest Seawall, pilings and stairs - Pirate's Cove fill slope as viewed from Incinerator area (MBD DSC02868.JPG)



Figure 3 - 267. Concrete staircase to West Seawall (MBD DSC02583.JPG)



Figure 3 - 268. Wood staircase and platform to Foghorn North (MBD: DSC02558.JPG)



Figure 3 - 283. Catwalk #1 with MBSR32 and MBSR33 as viewed from Catwalk #2; Stockade/Recreation Yard wall and Water Tower in background (MBD: P1020634.JPG)



Figure 3 - 284. NPS Cyclone security fencing MBSF17 at Model Industries Yard, looking south towards San Francisco (MBD P1030565.JPG)



Figure 3 - 285. Security Fence Foundation with MBSF5; note construction of new curb for modern fence on top of original curb. (MBD DSC02604.JPG)



Figure 3 - 286. West Road - North Side along New Industries Building, viewed from south end towards Model Industries Building. New Industries Building at right, MBSF5 at left. (MBD P1030609.JPG)