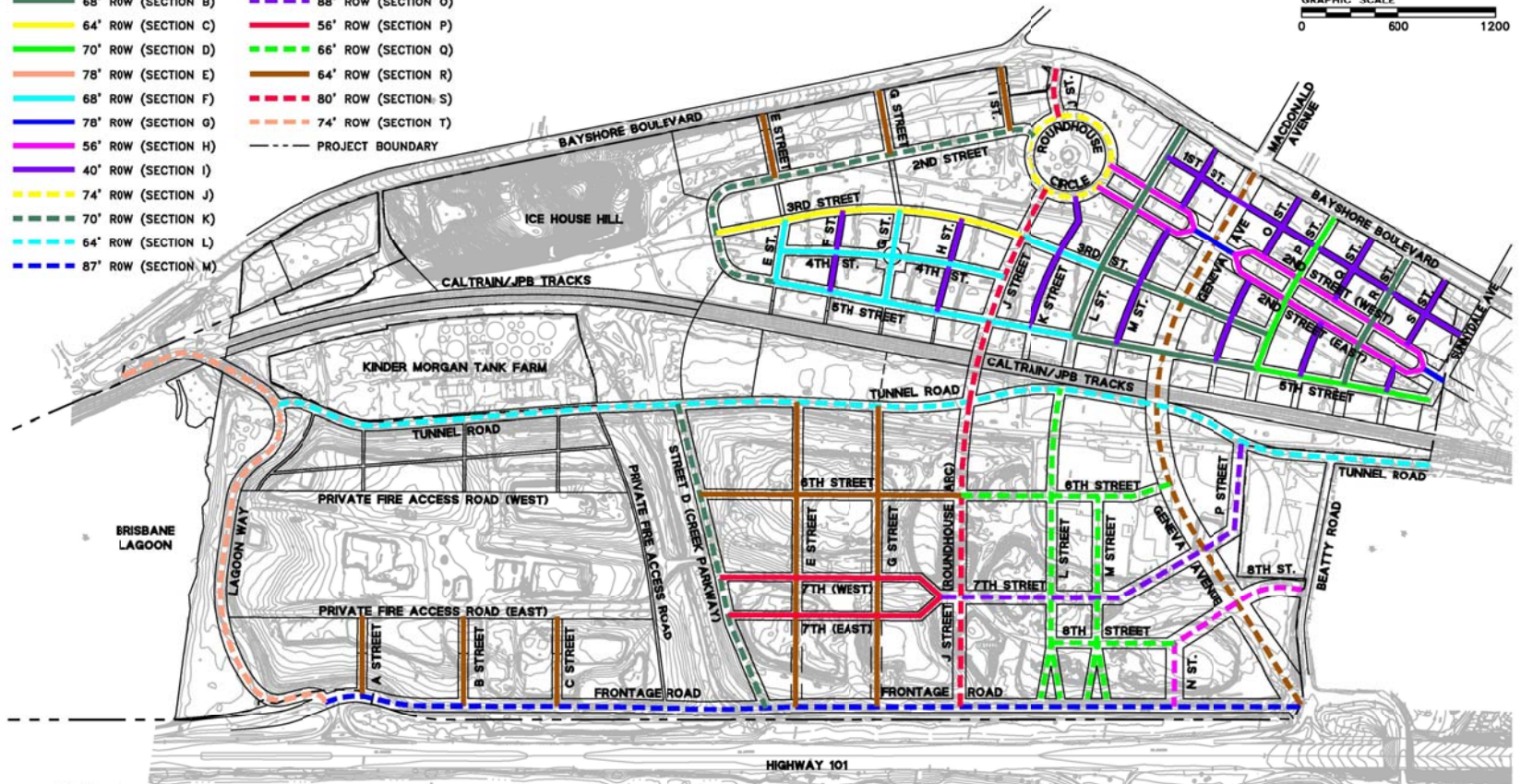
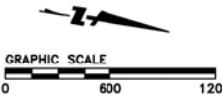


LEGEND

	140' ROW (SECTION A)		107' ROW (SECTION N)
	68' ROW (SECTION B)		88' ROW (SECTION O)
	64' ROW (SECTION C)		56' ROW (SECTION P)
	70' ROW (SECTION D)		66' ROW (SECTION Q)
	78' ROW (SECTION E)		64' ROW (SECTION R)
	68' ROW (SECTION F)		80' ROW (SECTION S)
	78' ROW (SECTION G)		74' ROW (SECTION T)
	56' ROW (SECTION H)		PROJECT BOUNDARY
	40' ROW (SECTION I)		
	74' ROW (SECTION J)		
	70' ROW (SECTION K)		
	64' ROW (SECTION L)		
	87' ROW (SECTION M)		



Drawing Date: 11/16/2010 11:44:13 AM Project: Brisbane Baylands Infrastructure - Utilities for Gas Extension/Power Distribution/Street Lighting/ROW/Map
 Plot Size: 11.00 x 17.00 (inches)

BKF
 ENGINEERS SURVEYORS PLANNERS
 255 SHORELINE DR, SUITE 200
 REDWOOD CITY, CA 94065
 650-482-6300
 650-482-6399 (FAX)

SAN FRANCISCO BAY
BRISBANE BAYLANDS (BASE VARIANT)
PROPOSED ROADWAY PLAN BUILDOUT

Home Depot, Colma (1995)

- First Post Closure Development after Title 27 Regulations were adopted in 1990.
- 102,000 SF Building, Structured Parking
- 7-acre Unlined, Class II solid waste landfill
- Anticipated settlements up to 5-feet
- Steel piles through landfill to bedrock below
- Approvals through:
 - ✓ California Integrated Waste Management Board
 - ✓ Lead Enforcement Agency (San Mateo County Health Department)
 - ✓ Regional Water Quality Control Board



LANDFILL EXPERIENCE

America Center, San Jose (2005+)

- 1 million s.f. office/hotel campus
- Final closure of 70-acre landfill
- Pre-drilled piles through landfill to protect aquifer
- On-going leachate monitoring at perimeter
- 3-5 feet of settlement anticipated
- Approvals through:
 - ✓ California Integrated Waste Management Board
 - ✓ Lead Enforcement Agency (City of San Jose)
 - Third Party Plan Check for Landfill Development
 - ✓ Regional Water Quality Control Board
- LEED Gold Certified



Sierra Point, Brisbane (1999)

- Final closure of 70-acre landfill
- 2 million s.f. office, 3 hotels
- Steel and concrete piles through landfill and Bay Mud
- On-going leachate monitoring at perimeter
- 3 to 4 feet of settlement anticipated
- Approvals through:
 - ✓ California Integrated Waste Management Board
 - ✓ Lead Enforcement Agency (San Mateo County Health Department)
 - ✓ Regional Water Quality Control Board



RECENT POST CLOSURE LANDUSE APPROVAL

City Place, Santa Clara (2017)

- 239-acre development, 175-acres on existing closed landfill
- 7 million s.f. office/retail, 700 hotel rooms, 1,360 Residential Units
- Approvals to date:
 - City of Santa Clara approved land use change June 2016
 - LEA (Santa Clara County Health) approved Post Closure Land Use Plan December 2016
 - California Department of Resources Recycling and Recovery approved PCLUP December 2016
 - Regional Water Quality Control Board approved PCLUP December 2016
 - Regional Water Quality Control Board approved revised Waste Discharge Requirements (WDR) May 2017
- Revised WDRs require:
 - Review/approval of detailed project reports and plans prior to construction
 - Leachate monitoring and plans for extraction if safe levels exceeded
 - Methane gas monitoring and collection systems
 - Final cap designs
 - Mitigations for impacts to final landfill cap during construction
 - Pile installation and mitigations/monitoring
 - Review/approval of Maintenance and Monitoring Plan
 - Includes requirements for inspection after seismic events
 - Review/approval of Funding Mechanism for future maintenance activities

Design Process

- Analyze historical documents and geotechnical data
- Conceptual design studies and reports
- Meetings with Regulatory Agencies
 - Local Enforcement Agency (San Mateo County Health)
 - Regional Water Quality Control Board
 - California Department of Resources Recycling and Recovery
 - City of Brisbane
- Develop Post Closure Land Use Plan
 - Detailed Environmental Studies and Geotechnical Studies
 - Leachate and Methane control strategies
 - Specific improvement design strategies
 - Phasing
 - Sea Level Rise
 - Maintenance/Monitoring/Funding Plan
- Review/Approval of PCLUP by Regulatory Agencies
- Site Improvement Designs
 - Grading/Drainage/Utilities
 - Design for Final Cover
 - Leachate and methane monitoring and control systems
- Inspection/Monitoring/Maintenance Plan
- Final Review/Approval by Regulatory Agencies