

RECEIVED
City of Rancho Palos Verdes

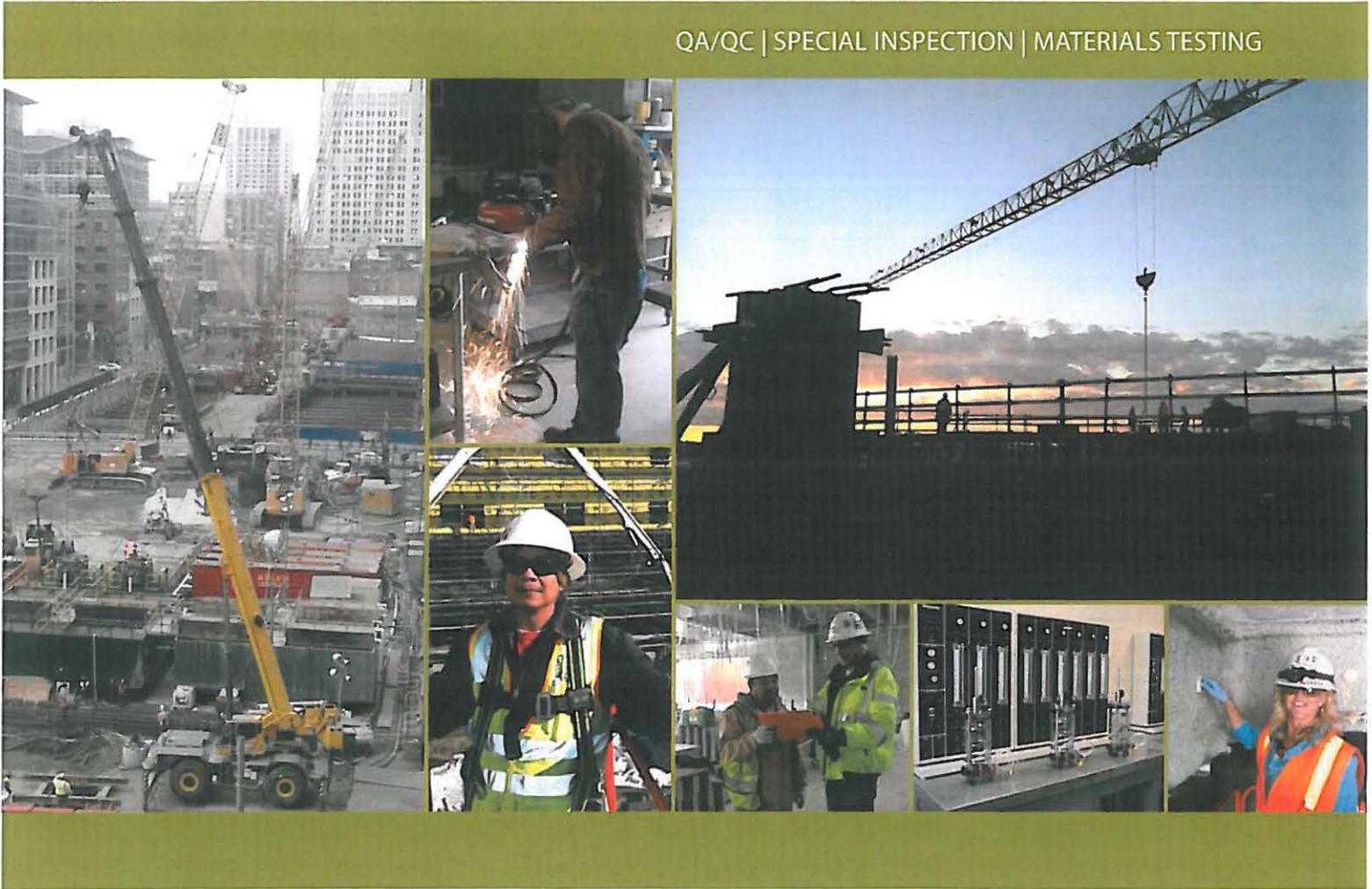
JUN 08 2015

PUBLIC WORKS DEPARTMENT

Statement of

QUALIFICATIONS

QA/QC | SPECIAL INSPECTION | MATERIALS TESTING



SBE | MWBE | DBE



*City of Rancho Palos Verdes
Various
Rancho Palos Verdes, CA 90275*

SCHEDULE OF FEES AND SERVICES

Corporate Headquarters

1798 University Avenue
Berkeley, CA 94703-1514
T: 510.900.2100
F: 510.900.2101

San Francisco

Pier 26, The Embarcadero
San Francisco, CA 94105
T: 415.242.3265
F: 415.243.3266

Oakland

211 10th Street, Suite 298
Oakland, CA 94607
T: 510.986.1157
F: 510.986.1158

Torrance

1326 Border Ave.
Torrance, CA 90501
T: 310.755.3600
F: 310.328.8193

Established 1995

Personnel hourly rates and material testing rates for general and special services are contained in the following pages.

- Services will be performed on a time and materials basis at the unit rates listed.
- Prices are valid through June 30, 2015.
- Please contact our offices for further detail.



PROFESSIONAL SERVICES

PROFESSIONAL SERVICES

1109	Expert Witness.....	270.00	/hour
1101	Principal.....	190.00	/hour
1108	Geotechnical Engineer.....	175.00	/hour
1102	Professional Engineer.....	160.00	/hour
1103	Staff Engineer.....	145.00	/hour
1221	Project Manager.....	145.00	/hour
2112	Lead Inspector (Group 1).....	93.00	/hour
2109	Field Technician / Inspector.....	89.00	/hour
1106	Laboratory Technician.....	89.00	/hour
1104	Administrative Services.....	75.00	/hour
1314	Contract Labor.....	cost+20%	/each

INSPECTION SERVICES

Oversight Inspections

2107	DSA - OSHPD Certified Inspector (IOR).....	quote	/hour
2108	Inspection in Hazardous Containment Area.....	195.00	/hour

Soils / Asphalt Division

2701	Field Compaction Testing with Nuclear Gauge	93.00	/hour
2703	Soils Observation.....	89.00	/hour
2702	Material Sampling / Transportation.....	89.00	/hour
2704	Sampling of Grout for Soil Nails or Tiebacks...	89.00	/hour
2705	Sampling of Soil-Cement Mixture.....	89.00	/hour
2706	Observation of Soil Nail or Tieback Stressing..	89.00	/hour
2707	Pile / Pier Observation.....	89.00	/hour
2708	Geotechnical Observation by Inspector.....	89.00	/hour
2709	Field Compaction Testing with Sandcone.....	93.00	/hour
2710	Field Compaction Testing with Rubber Balloon	93.00	/hour
2801	AC Observation / Compaction Testing.....	93.00	/hour
2802	QC/QA Technician (Caltrans/FAA/NICET certifi	89.00	/hour
2803	QC/QA Technician (Caltrans/FAA/NICET) 10h	1,265.00	/day
2804	AC Batch Plant Inspection / Sampling.....	89.00	/hour

Concrete / Shotcrete Division

2301	Concrete Placement Inspection.....	89.00	/hour
2312	Concrete Sampling.....	89.00	/hour
2311	Sampling of Lightweight Insulating Concrete...	89.00	/hour
2308	Installation of Maturity Sensors.....	89.00	/hour
2605	NS Grout Inspection / Sampling.....	91.00	/hour
2305	Batch Plant Inspection.....	89.00	/hour
2302	Shotcrete Placement Inspection.....	89.00	/hour
2307	DSA Shotcrete Placement Inspection.....	93.00	/hour
2303	Witness of Rebar and Shotcrete for Pre-Const	89.00	/hour
2304	Coring / Evaluation of Pre-Construction Panel	975.00	/each
2310	QC/QA Technician (NICET).....	89.00	/hour

Reinforcing / Strand Steel Division:

2201	Rebar Placement Inspection.....	89.00	/hour
2203	Rebar / Strand ID Sampling / Tagging.....	89.00	/hour
2402	PT Strand Stressing Inspection.....	89.00	/hour

Masonry Division

2501	Masonry Block / Reinforcing / Grout Inspection	89.00	/hour
2506	Brick Veneer / Exterior Façade Inspection.....	89.00	/hour
2504	Brick Veneer Façade Testing.....	135.00	/hour
2505	Masonry Sampling / Tagging.....	89.00	/hour
2503	DSA Continuous Masonry Inspection.....	93.00	/hour

Structural Steel Division

2601	Field Welding Inspection (visual).....	91.00	/hour
2602	Shop Welding Inspection (visual).....	91.00	/hour
2603	High Strength Bolting Inspection.....	91.00	/hour
2608	NDT Ultrasonic Testing (UT).....	91.00	/hour
2609	NDT Magnetic Testing (MT).....	91.00	/hour
2610	NDT Liquid (Dye) Penetrant Testing (PT).....	91.00	/hour
2611	Inspection of Misc. Structural Steel/Welding (v	91.00	/hour
2612	Inspection of Steel Deck Welding/Shear Studs	91.00	/hour
2613	Witness Welding Qualification Tests.....	91.00	/hour
2614	Inspection of Welding of Non-Structural Eleme	91.00	/hour
2615	Material Identification to CMTR and/or Sampli	91.00	/hour
2616	Inspection of Curtain Wall Attachment.....	91.00	/hour
2617	Radiographic Examination (by others).....	cost+20%	/hour
2618	Pile Splice Welding Inspection.....	91.00	/hour
2620	Sampling of End-Welded Studs.....	91.00	/hour
2621	Sampling of High Strength Bolts (HSB).....	91.00	/hour
2622	Level III UT and MT Technician.....	170.00	/hour
2623	Inspection of Cold-formed Metal Framing	91.00	/hour

Fireproofing / Roof / Wood / Waterproofing Division:

2901	Fireproofing Density / Thickness Testing.....	89.00	/hour
2917	Roofing / Waterproofing Inspection.....	89.00	/hour
2905	Shearwall / Diaphragm Nailing Inspection.....	145.00	/hour
2908	Glu-lam Shop Inspection.....	89.00	/hour
2918	Inspection of Plaster/Stucco Application / Sarr	89.00	/hour

Specialty Testing Division

2904	Proof Load / Torque Testing.....	93.00	/hour
2903	Witness Dowel / Anchor Installation.....	89.00	/hour
2909	Ferroskan Survey.....	130.00	/hour
2920	Ground Penetrating Radar Survey (GPR).....	200.00	/hour
2913	Floor Flatness Survey (Dipstick).....	145.00	/hour
2916	Moisture Emission Testing Placement / Pick-L	89.00	/hour
2914	Intumescent Paint Thickness Inspection.....	93.00	/hour
2306	Coring Technician, One Man.....	130.00	/hour
2919	Inspection of Ploymer Matrix Composite (Fib	89.00	/hour
2921	Inspection of Crack Repair Measures.....	89.00	/hour
2922	Ground-Resistance Testing.....	145.00	/hour
2902	In-place Brick Mortar Shear Testing.....	93.00	/hour
2915	Rebound Hammer Testing (ASTM C805).....	93.00	/hour
2202	Verification of Rebar Placement with Pachom	93.00	/hour



LABORATORY SERVICES

Aggregate and Soils Mechanics

3401	Sieve Fine/Coarse Aggregates ASTM C136 / CT 202.	80.00	/each
3402	Materials Finer than # 200 Sieve by Washing A	60.00	/each
3403	Gradation ASTM C117 and C136.....	125.00	/each
3404	Sp. Gravity/Absorption of Coarse Agg ASTM C128	60.00	/each
3405	Specific Gravity/Absorption of Fine Agg ASTM C1	110.00	/each
3407	Bulk Density (Unit Weight) and Voids of Agg A&E	95.00	/each
3413	Clay Lumps and Friable Particles in Agg ASTM C	60.00	/each
3414	Cleanness Value of Coarse Agg CT 227.....	160.00	/each
3416	Aggregate Durability Index ASTM D3744 / CT 229.....	310.00	/each
3450	Materials Finer than No. 200 Sieve ASTM D1140...	110.00	/each
3451	Liquid Limit, Plastic Limit and PI ASTM D4318 / CT 20	230.00	/each
3452	Particle Size Analysis of Soils ASTM D422.....	120.00	/each
3453	Hydrometer Analysis, incl Sp. Gravity ASTM D422.	440.00	/each
3454	Soil Classification ASTM D422, D1140, D4318.....	390.00	/each
3455	Specific Gravity of Soils ASTM D854 / CT 209.....	220.00	/each
3456	Moisture Content of Soil / Agg ASTM D2216, C566 / C	32.00	/each
3457	Moisture Content and Density of Soil from Bori	60.00	/each
3458	Sand Equivalent for Soils / Fines ASTM D2419 / CT 2	110.00	/each
3459	Lab Compaction (Standard) A/B (4" Mold) ASTM	130.00	/each
3460	Lab Compaction (Standard) C (6" Mold) ASTM D6	185.00	/each
3461	Lab Compaction (Modified) A/B (4" Mold) ASTM	210.00	/each
3462	Lab Compaction (Modified) C (6" Mold) ASTM D1	290.00	/each
3463	Oversize Correction for Lab Compaction ASTM D	60.00	/each
3464	Unconfined Comp. Strength inc. MD ASTM D2166	130.00	/each
3465	Density / Unit Weight by Sand Cone Method A&E	32.00	/each
3466	R-Value of Compacted Soils ASTM D2844 / CT 301...	425.00	/each
3467	California Impact Test Max Wet Density CT 216.	325.00	/each
3468	Maximum Index Density on Vibratory Table AST	330.00	/each
3469	Organic Impurities in Fine Aggregate ASTM C140.	50.00	/each
3470	California Bearing Ration (CBR), 3 points ASTM	650.00	/each
3471	LA Abrasion Resistance ASTM C131.....	225.00	/each
3472	Aggregate Soundness Sodium Sulfate ASTM C88/	100.00	/each

Asphaltic Concrete Products

3601	Moisture Content of Asphalt Mixture CT 370.....	50.00	/each
3602	Bulk Specific Gravity of Bituminous Mixture CT:	60.00	/each
3603	Theoretical Maximum Sp. Gravity and Density	70.00	/each
3604	Asphalt Content by Vacuum Extraction ASTM D21	105.00	/each
3605	Asphalt Content by Ignition Method ASTM D6307 / C	170.00	/each
3606	Asphalt Content by Nuclear Method ASTM D4125 /	85.00	/each
3607	Stabilometer Value ASTM D1560 / CT 366.....	135.00	/each
3608	Recommending Optimum Bitumen Content CT: 2,310.00	/each	
3609	Optimum Bitumen Content of Open Grade CT 3&C	660.00	/each
3610	QC Plan for Caltrans QC/QA projects.....	quote	/each
3611	Tensile Strength Ratio ASTM D4867.....	1,210.00	/each
3612	Marshall Compacted Sample (set of 3) ASTM D15	230.00	/set
3613	Marshall Stability and Flow, Air Voids ASTM D155	75.00	/each
3614	Bulk Specific Gravity of Core Sample ASTM D272	60.00	/each
3615	Theoretical Max Specific Gravity (Rice) ASTM D2	120.00	/each

Asphaltic Concrete cont.

3616	Sieve Analysis of Extracted Aggregate ASTM D5	100.00	/each
3617	Marshall Mix Design.....	2,310.00	/each
3618	Bulk Specific Gravity of Compacted Samples	80.00	/each
3619	Swell of Bituminous Mixtures CT 305.....	120.00	/each
3620	Moisture Vapor Susceptibility of Mixture CT 307.	225.00	/each
3621	Centrifuge Kerosene Equivalent and ABR CT 3	185.00	/each
3622	Lab Test Maximum Density CT 375.....	390.00	/set

Concrete, Shotcrete, Products

3101	Compression Test 3"x6", 4"x8", or 6"x12" Cyl	45.00	/each
3105	Compression Test of Shotcrete/Concrete Core	90.00	/each
3106	Unit Weight of Freshly -Mixed Concrete ASTM C	42.00	/each
3107	Density, Absorption, Voids in Hard Concrete A	68.00	/each
3108	Concrete Trial Batch (IBC or CCR Title 24, per W/c Ratio.	600.00	/each
3120	Modulus of Elasticity of Concrete ASTM C496.....	220.00	/each
3121	Compression Test of Samples not Taken by K	60.00	/each
3124	Drying Shrinkage of Concrete Beams ASTM C15	440.00	/set
3125	Concrete Splitting Tensile Strength ASTM C496...	70.00	/each
3126	Unit Weight of Controlled Density Material.....	60.00	/each
3128	Flexural Strength of Concrete ASTM C78 / CT 523...	110.00	/each
3131	Compressive Strength of Insulating Concrete	55.00	/each
3132	Density of Lightweight Concrete ASTM C567.....	85.00	/each
3133	Creep of Concrete (per month) ASTM C612.....	235.00	/each
3134	Flexural Toughness (FRC) Beams ASTM C1018...	235.00	/each
3135	Flexural Toughness (FRC) Round Panels ASTM	315.00	/each
3129	Calibration of Concrete w/ Maturity System (17	690.00	/set
3130	Petrographic Analysis (by others).....	quote	/each
2911	Concret Moisture Vapor Emission Kit ASTM F186	55.00	/each
2923	Concrete In-Situ Relative Humidity ASTM F2170 A	55.00	/each
2924	pH Value Determination Add to hrrly rate.....	10.00	/each
2309	Concrete Maturity Sensors.....	75.00	/each

Fireproofing / Roof / Wood / Waterproofing Products

3701	Density of Spray Applied Fireproofing UBC 7-6...	60.00	/each
2912	Cohesion/Adhesion Test Kit (SFRM).....	55.00	/each
3702	Compression Test of Plaster Cylinder or Cube	60.00	/each
3703	Density of Plaster Cylinder or Cube ASTM C472...	60.00	/each
3704	Bond Strength of Tile ASTM C482.....	340.00	/set
3705	Tensile Test of Polymer Material (Fibwrap) A&E	600.00	/set

Masonry Products

3109	Drying Shrinkage of CMU Units ASTM C426.....	200.00	/each
3110	CMU Shrinkage, Absorption, Moisture, Unit W	1,100.00	/set
3123	CMU Core Shear Test CCR Title 24, per side.....	85.00	/each
3136	Compression Test 2"x2" Cube ASTM C109.....	60.00	/each
3102	Compression Test 2"x4" Mortar or Grout ASTM	45.00	/each
3103	Compression Test 4"x4" Grout Prism ASTM C39.	45.00	/each
3104	Compression Test Masonry Prism ASTM C1314...	165.00	/each
3137	Compression Test Masonry Block ASTM C140....	90.00	/each



Reinforcing Steel Products

3201	Tensile and Bend #3 to #8 ASTM A370.....	110.00	/each
3202	Tensile and Bend #9 to #11 ASTM A370.....	150.00	/each
3203	Tensile and Bend #14 and #18 ASTM A370.....	290.00	/each
3204	Slip Test of Mechanical Splice CT 670.....	85.00	/each

Structural Steel / Welding Products

3301	Rockwell Hardness ASTM A370, E18.....	60.00	/each
3302	Charpy Impact 45 deg. V (to 100F) ASTM A370, E2:	300.00	/each
3303	Macroetch Examination Welded Test Joints AW	100.00	/each
3304	Reduced Section Tensile ASTM A370.....	105.00	/each
3305	Guided Bends; side, root, or face AWS D1 1.....	25.00	/each
3306	All Weld Metal Tensile AWS D1 1.....	105.00	/each
3307	Tensile Test of Miscellaneous Steel ASTM A370...	105.00	/each
3308	Tensile and Bend Test of Miscellaneous Steel	125.00	/each
3310	Mechanical Properties of HSB w/ nuts/Washer	265.00	/set
3311	Mechanical Properties of End-Welded Studs A6	125.00	/each
2604	Calibration of Torque Wrench for HSB.....	155.00	/set
2619	Welder Qualification Test Record (Excluding Lab Tes	100.00	/each

Engineering Review / Miscellaneous Items

1201	Concrete Mix Design Review UBC or CCR Title 24....	160.00	/each
1202	Shotcrete Mix Design Review UBC or CCR Title 24....	160.00	/each
1203	Grout Mix Design Review UBC or CCR Title 24.....	160.00	/each
1204	Review of Welding Documents (WPS).....	160.00	/hour
1205	Review of Documents	160.00	/hour
1206	Jobsite Meetings/Supervision.....	145.00	/hour
1207	Shotcrete Final Verified Report DSA or OSHPD.....	210.00	/each
1208	Welding Final Verified Report DSA or OSHPD.....	210.00	/each
1209	Masonry Final Verified Report DSA or OSHPD.....	210.00	/each

Engineering Review / Miscellaneous Items cont.

1210	Final Inspection Affidavit UBC 1701, up to 3 visits.....	210.00	/each
1211	Final Inspection Affidavit UBC 1701, up to 10 visits.....	315.00	/each
1212	Final Inspection Affidavit UBC 1701, up to 25 visits.....	420.00	/each
1213	Final Inspection Affidavit UBC 1701, up to 100 visits....	730.00	/each
1214	Final Inspection Affidavit UBC 1701, more than 100 visit	1,000.00	/each
1215	Laboratory Final Verified Report DSA or OSHPD...	350.00	/each
1216	Geotechnical Final Verified Report DSA or OSHPD	525.00	/each
1217	QC/QA Engineering Consulting Services.....	160.00	/hour
1218	Pavement Design/ Consulting	160.00	/hour
1219	Soil Compaction Test Review (by Geotechnical Engin	175.00	/hour
1220	Asphalt Mix Design Review.....	160.00	/hour
2001	Destructive Exposure of Rebar.....	130.00	/hour
2002	Destructive Sampling of Rebar.....	130.00	/hour
2003	Destructive Sampling of Concrete.....	130.00	/hour
2004	Patching of Exposed Sample Areas w/ HS Gr	93.00	/hour

Travel, Mileage, Transportation Expenses

1301	Courier / Transportation.....	75.00	/hour
1305	Mileage.....	0.58	/mile
1306	Per Diem (or at cost if higher).....	95.00	/day
1307	Travel Time	75.00	/hour
1308	Parking.....	cost+20%	/each
1309	Bridge Tolls.....	cost+20%	/each
1310	Car Rental.....	cost+20%	/each
1311	Airfare.....	cost+20%	/each
1312	Equipment Rental.....	cost+20%	/each
1313	Mobilization.....	75.00	/hour
1314	Outside Services (Subconsultants/Subcontrac	cost+20%	/each



SPECIAL INSPECTION AND MATERIAL TESTING SERVICES

BASIS OF CHARGES

A. Minimum Hourly Charges:

9003. Show-up/Cancellation	2 hours
Inspector/Technician services (0 - 4 hours)	4 hours
Inspector/Technician services (4 – 8 hours)	8 hours
1221. Project Manager	1 hour
1104. Administrative Services	1 hour

B. Rate for Field Inspectors:

Basic Rate	\$ 89.00/hr
Basic Rate w/ Testing Equipment	\$ 93.00/hr
Overtime (over 8 hrs Monday-Friday; first 8 hrs on Saturdays)	1.5 x Basic Rate
Doubletime (over 12 hrs Mon-Fri; over 8 hrs on Sat; Sundays & Holidays)	2 x Basic Rate
Work performed on "RUSH" schedule	1.5 x Basic Rate
Night Shift Differential (shifts starting after 2pm/before 4am)	1.125 x Basic Rate

C. Expenses:

1307. Travel Time, if required	\$ 75.00/hr
1305. Auto Mileage, if required	\$ 0.575/mile
1306. Per Diem (Or cost if greater than \$95.00/day)	\$ 95.00/day
1308. Parking / 1309 Tolls	At Cost
1314. Outside Services	Cost + 20%
Final Affidavit Minimum Charge (Allow a minimum of ten working days to issue)	\$ 210.00/ea
Miscellaneous Expenses	Cost + 20%
Project Management Fee	Hourly
Special Handling Administrative Fee	3% each invoice
<small>(When client requests special system programing or back-up documentation not normally provided)</small>	

* Technical personnel are members of the Operating Engineers Local No. 12 and the above charges are a part of our contractual commitment. For assignments that require equipment such as nuclear gauges, hydraulic systems for proof-load testing, high-strength torque wrench etc., billing time will include picking up and dropping off the equipment at ISI's laboratory as well as round trip travel.

* Rates are subject to an annual COLA increase of 3% adjustment on July 1st of each year to cover any increase in ISI's cost due to changes in wages, benefits, working conditions and other provisions of the Union Labor Agreement and Prevailing Wage requirements.



QUALITY IS OUR CORNERSTONE SAFETY IS OUR COMMITMENT

At ISI, we believe in creating a safe environment, from the structures we inspect to the materials we test. By embracing a culture of quality, we focus on perfecting our abilities, processes and products. Every ISI employee contributes toward this goal, creating a synergy that spurs innovation and provides our clients with exceptional value.

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<i>Healthcare/Life Sciences</i>	14
<i>Education</i>	17
<i>Commercial/Residential</i>	21

FIRM PROFILE

Since 1995 ISI has provided the highest level of expertise, accuracy and integrity in special inspection and materials testing services. ISI is a certified SBE / MWBE / DBE company. The firm is headquartered in Berkeley, California, with additional offices in Torrance, San Francisco and Oakland. With over 80 employees, ISI has the depth of resources and breadth of knowledge to deliver high quality and responsive service to our clients. ISI inspectors witness, record and report construction activities performed by project contractors and subcontractors. While

maintaining our independent status, ISI is responsible to local building officials, the project structural engineer, the project architect and most importantly, our clients.

COMPREHENSIVE SERVICES

ISI has served in an integral role in the construction of a wide range of projects for a broad range of clients from the healthcare/life sciences, infrastructure, education and commercial fields. Through this work, we have gained experience with many public agencies such as the Department of General Services (DGS), California Department of Transportation (Caltrans), Office of Statewide Health Planning & Development (OSHPD), Division of the State Architect (DSA) and numerous municipalities.

ISI Delivers:

- Full Service, Accredited Testing Laboratories
- Knowledgeable and Personable Inspectors
- Experience on Fast-Paced, High-Profile Projects
- Competitive Pricing
- Involved Company Principals
- Commitment to Safety

ISI is well versed in the Standard Specifications for Public Works Construction (SSPWC), Caltrans, California Building Code (CBC/Title 24), and the International Building Code (IBC). ISI employs California Licensed Civil, Geotechnical, and Quality Engineers; ICC,

OSHPD, DSA, AWS, ANST, ACI and NICET certified inspectors and technicians; experienced supervisors and support staff.

FULL SPECTRUM OF QUALITY SERVICES TORRANCE, CA

ISI's Torrance location is ready to provide QA/QC building inspection and testing of construction materials for projects of any scope and at any project stage. We are dedicated to providing the construction industry with only the highest level of expertise, accuracy, and integrity in the performance of inspection and testing services. At ISI, we are committed to meeting the stringent quality requirements of every project we undertake and we believe that the services we provide are vital for maintaining public safety in the built environment.



Special Inspection Services

Soils and Asphalt

- Grading Observations
- Density Testing (Nuclear Gauge/Sand Cone)
- Source Inspection/Material Sampling

Reinforced Concrete

- Concrete Placement and Sampling
- Batch Plant Inspection
- Reinforcing Steel Placement Inspection

Precast Concrete Fabrication

- Concrete Placement and Sampling
- Reinforcing Steel and Tendon Inspection
- Tendon Stressing Observations

Post-Tensioned Concrete

- Concrete Placement and Sampling
- Reinforcing Steel and Tendon Placement Inspection
- Tendon Stressing Observations

Spray-Applied and Intumescent Fireproofing

- Substrate Inspection
- Application Inspection
- Thickness Verification
- Adhesion/Cohesion Testing

Shotcrete

- Pre-Production Panel/Nozzleman Qualification
- Reinforcing Steel Placement Inspection
- Shotcrete Placement Inspection

Structural Masonry and Veneer

- CMU and Veneer Placement and Sampling
- Reinforcing Steel Placement Inspection
- Grout Placement Inspection
- Source Material Sampling

Structural Steel and Welding

- Material Identification

- Shop Fabrication Welding Inspection
- Field Welding Inspection
- Nondestructive Testing (UT, MT, PT, RT)
- High Strength Bolting Inspection

Anchor and Dowel Installation

- Installation Inspection
- Torque/Proofload Testing

Professional/Specialty Services

Engineering

- Geotechnical Engineering Consultation
- Structural Investigation/Surveys
- Expert Witness

Document Review

- Concrete Mix Design Review
- Shotcrete Mix Design Review
- Grout Mix Design Review
- Welding Procedure/Qualification Review
- Quality Control Procedure Review

Quality Control Management

- Develop Quality Control Program
- Implement/Manage Quality Control Program

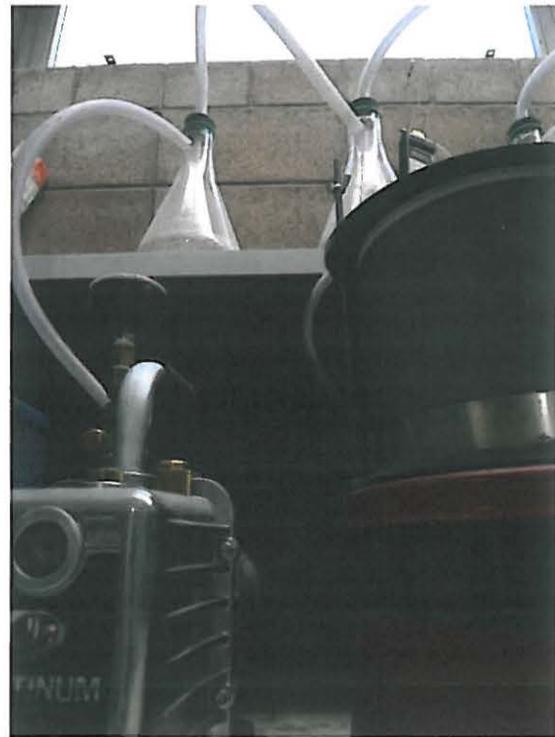
Reinforcement Survey

- Pachometer
- Ferrosan

LABORATORY QUALIFICATIONS

ISI inspects all phases of construction and conducts all testing in-house. Conforming laboratory reports are typically emailed within 24 hours following completion of testing. Failing tests are directly communicated to our Project Manager who will immediately pass this information on to the project management team. We operate a full service Materials Testing Laboratory in Torrance, CA. We test concrete, aggregate, soil, masonry,

rebar, metals and fireproofing for compliance to various test standards.



Our laboratory is under the technical direction of a registered professional

engineer. It is inspected by, and maintain accreditations with, AMRL/AASHTO, CCRL, and the City of Los Angeles. The laboratory is also inspected by, and enrolled in, the Reference Sample programs administered by the Cement and Concrete Reference Laboratory (CCRL) and the American Association of State Highway Transportation Officials (AMRL/AASHTO).

The Quality Assurance Program at each facility incorporates the elements of AASHTO R-18, ASTM E329 Testing or Special Inspection; C1077 Concrete/Aggregate; and D3740 Soil/Rock quality system standards. Our testing facility is in compliance with the provisions established in ASTM E329, Specification for Minimum Requirements for Agencies Engaged

in the Testing and/or Inspection of Materials Used in Construction. Testing is performed by trained and certified technicians per American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO). Some of our testing equipment and capabilities include:

- 500,000 lb Forney Block Compression Testing Machine
- 400,000 lb Forney Universal Testing Machine

Laboratory Testing Services

Concrete Laboratory

- Dry Unit Weight
- Compression

Masonry Laboratory

- Compression
- Absorption

Soils Laboratory

- Sieve Analysis
- Specific Gravity
- Compaction
- Plasticity Index

Aggregate Laboratory

- Sulfate Soundness
- Aggregate Qualification Testing
- Specific Gravity of Aggregate
- Percent Crushed Particles

Metals Laboratory

- Rebar (Including couplers/welded bars) Tensile & Bend



APPROACH TO QUALITY AND RESPONSIVE SERVICE

ISI performs inspections and tests according to Contract Documents and Building Permit Requirements. We do this by providing highly qualified inspectors, innovative technical tools, effective communication, and ongoing

training. The ISI team puts a premium on inspector experience and the ability to effectively communicate. ISI routinely holds in-house training seminars to provide our inspectors with assistance in attaining their personal goals by helping to improve their



inspection knowledge and skills. Along with a full technical program, we assist each inspector with on-the-job training, code interpretation and Quality Assurance problem solving.

ISI responds quickly to requests for personnel or technical support. Typically, we request a 24-hour advance notification of our services.

With over 80 employees, ISI employs a sufficient number of engineers, certified inspectors, and technicians so that we can service multiple inspection requests on various projects quickly and simultaneously—even accommodating accelerated construction schedules which may include overtime and weekend work. We employ a computerized dispatch system and provide all inspectors with cell phones and iPads to enhance communications.

Daily field reports are provided to the designated owner's representatives following completion of the fieldwork. This concise documentation allows for the highest traceability to be accessible immediately. Our reporting and billing systems are readily adaptable to the specific requirements of your project. These proven systems for technical and administrative responsiveness assure timely service. We adapt to meet our customers' needs, which results in rewarding, long-term relationships.

INNOVATIONS IN REPORTING

Expedient and efficient reporting is essential, as delays inevitably cost time and money. With today's technological advancements, paperless systems are now a reality. ISI delivers instant access to field inspection and laboratory testing reports as soon as they are completed on the project. GreenBox is our solution.

GreenBox is a web-based system created by ISI specifically for the testing and inspection industry. GreenBox brings everything, from dispatch to field reporting to lab results, together in one easy location. Once an inspection request is entered, GreenBox generates required documents, such as the time record for the field inspector, the anticipated field report for the inspection task, and then forwards this information to the selected inspector via email. When the inspection is complete, our inspector logs into GreenBox through a secure website on a company-issued iPad and completes the required documents.

With GreenBox, field reports can be delivered immediately via email to whoever needs them. Weekly reports are collated with a cover sheet and distributed to the project distribution list either by email or through the GreenBox secure client website. This is critical for off-site inspections, especially for non-compliant items that require the immediate attention of the construction management team and design professionals. Timely laboratory test results are also critical to the progress of the project. This is not a problem with GreenBox. Once the tests are performed the results are immediately available on the GreenBox secure client website.

Visit our website to view a [GreenBox demonstration video](#)
www.inspectionsservices.net

COMMITMENT TO SAFETY

At ISI, we consider injury and illness prevention just as important as quality production, cost control and superior customer service. This commitment is embodied in our in-house Director of Health and Safety, Bill Bellm. All employees participate in an ongoing safety awareness program.

Because we value the safety of our employees above all else, ISI employs an in-house Health and Safety Director

Our Injury & Illness Prevention Program (IIPP) provides guidance and training for all ISI employees. Bill maintains the IIPP for compliance with all applicable Occupational Safety and Health Administration (OSHA) standards. Bill is responsible for maintaining safety standards at jobsites and facility locations, providing safe work environments, conducting safety training, identifying and providing proper Personal Protective Equipment (PPE) for job assignments in the field and laboratory. He visits construction sites to perform safety inspections, manage incidents, and minimize injury-related liability.



EMPOWERED LEADERSHIP

ISI was founded to provide exceptional value to our clients, an innovative and inspirational work environment for our employees, and, most importantly, a built environment that is safe for the public.

ISI's principals and management are accomplished professionals, Registered Professional Engineers and/or Certified Inspectors, with an average of 23 years of experience.



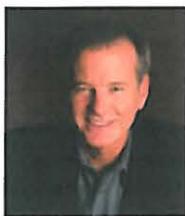
Leslie Sakai

President/CEO

As Principal/Co-Founder, Leslie has served as President of ISI since 1995 and plays a top role in the decision

making for all operations. She previously

served on the Board for Asian American Architects and Engineers (AAAE), where she was Past President, and is recognized as a member of the Council of Asian American Business Associates (CAABA). She is also a member of the Caltrans District 4 Small Business Council. Prior to incorporating ISI, she assisted with the operations/management of Inspection Services, where she implemented inspection-reporting procedures for schools and hospitals.



Edward King

Executive Vice President

Ed brings 34 years of testing and inspection experience as VP of Operations, overseeing construction projects and

technical personnel for ISI. He is ICC certified for Structural Steel Welding, Reinforced Concrete, Plumbing, and Mechanical. Other certifications include ASNT, AWS/CWI, OSHPD, and DSA/ORS. Ed has managed the inspection activities for the San Francisco/Oakland Bay Bridge Superstructure Replacement, SFIA's new International Terminal and the SFIA BART/ART station. These two projects exceed \$2 billion in construction costs. His article describing the Automated Ultrasonic Testing system employed at the SFIA International Terminal was published by American Welding Society's Inspection Trends magazine.



Michael Zell

Chief Operating Officer

Mike joined ISI as Business Development and Project Manager, he is ICC certified for Reinforced Concrete,

Structural Masonry, Spray Applied Fireproofing, and other certifications including AWS/CWI, RSO, OSHA 10-hour. Mike has an extensive background in Quality Assurance

testing and inspection services, including geotechnical engineering. His experience includes technical engineering related to civil and structural materials testing procedures with over 20 years of experience in construction testing and inspection in Central and Northern California. Mike has served as the Project Manager for numerous fast-paced, high profile OSHPD, DSA, Refinery, Power Plant, and Infrastructure projects.



Jeff Roe

Division Manager

Jeff joined Inspection Services Inc. with fifteen years of experience in Materials Testing, Special

Inspection and Geotechnical Testing throughout Southern California. He has held management positions over the past ten years as a Senior Project Manager, Divisional Manager and most recently Corporate Operations Manager. His experience ranges from commercial, health care, education, process, transportation and industrial projects. Areas of responsibility include project management, business development, estimating services, quality control, safety, fiscal accountability, staffing, and implementation of new management procedures for a full range of projects. Mr. Roe has extensive project experience with public projects through Department of General Services (DGS), Division of State Architect (DSA), Caltrans, General Services Administration (GSA), and City/County projects.



Philip Nishikawa, PE

Senior Engineer

With 40 years of experience and expertise in Structural Steel/Welding, Phil has

managed projects and personnel, as well as provided technical supervision for relevant ISI projects. With his extensive experience managing structural steel/welding and metals testing divisions, Phil has established guidelines for inspector training to enhance staff qualifications. He manages projects with up to 30 inspectors and oversees shop/field welding for various high rise structures, schools and hospitals in Northern California.



Sam Sayawat, PE
*Senior Project Engineer/
Laboratory Manager*
Sam received his professional Civil Engineering license in 2006. He joined ISI in 2011

with over 15 years of hands-on experience in geotechnical engineering, construction inspection, materials testing and environmental consulting. Working with officials of public agencies and private developers, he conducted, supervised and managed investigations for the design and construction of several hundred projects throughout the State of California. In 2009 Sam earned recognition by the Division of the State Architect (DSA) as a Responsible Engineer of Record for certified testing agencies. He has worked on a variety of different projects including schools, hospitals, transportation, pipelines, freeway construction and commercial/residential developments. He has been successful in obtaining Federal and State accreditation from CCRL, Caltrans and AASHTO.



David Briggs
Project Manager
David Briggs contributes over ten years of construction experience with six years spent in the Testing

and Inspection industry. His experience includes project management, project

engineering and contract management. David's project engineering experience includes over 100 geotechnical site investigations. His approach to project management is to work closely with the project team and maintain frequent and reliable communication with the client and project team. He understands the need to respond quickly to questions in the field and to promptly distribute daily reports from our field inspectors. David carefully manages budgets and provides frequent budget notifications to the client to help avoid undesired scope creep. He uses his well-organized and responsive management approach and his excellent communication skills to provide the highest level of service possible.



Mike Everson

Project Manager

Michael Everson has served as a manager of a structural steel/NDT department for over 30 years before joining ISI in 2014. He also brings five years of experience at a fabrication company as a welder and quality control manager on structural steel, pressure vessels and bridges. He has been active in providing training and evaluation for welding inspectors. His primary responsibilities include the daily/weekly review and reporting process, project management and field supervision. His strengths lies in his ability to oversee the field staff while interfacing with the key members of the project design/ construction team including the architect, structural engineer, general contractor, and building inspection officials.



Lorenzo Lawson

Laboratory Supervisor

With over 24 years of materials testing experience, Lorenzo’s knowledge and expertise in Caltrans, ASTM, and AASHTO test procedures, and his 12 years of experience in quality assurance, gives him a solid background for soils, concrete and asphalt testing. Lorenzo has excellent working and teaching skills and has supervised over 6 lab technicians. Lorenzo’s industry knowledge and experience provide an excellent foundation for his role as Laboratory Supervisor.



Bill Bellm

Director of Health & Safety

As ISI Safety Director, Bill is responsible for assisting the project team with day-to-day safety issues as they occur. Bill reviews specific hazard safety issues brought to

his attention and assists in safety inspections, accident investigations, emergency preparedness and employee safety training. Bill routinely conducts in-house safety seminars for ISI personnel. In addition, he performs on-site visits to ensure that ISI personnel understand the potential safety hazards on construction sites, to confirm that jobsites and facility locations maintain safety standards that promote safe work environments, and to ensure that ISI employees comply with Occupational Safety and Health Administration (OSHA) laws and regulations.

PROJECT EXPERIENCE

ISI provides special inspection and materials testing services for all types of new, renovation and/or retrofit public and private projects, with a special focus on:

Infrastructure » Bringing inspection services to structures used by the public every day

Healthcare/Life Sciences » Providing quality assurance for healthcare and research facilities

Education » Helping build quality environments for students and educators

Commercial/Residential » Ensuring quality across prime office, retail, residential and mixed-use projects

INFRASTRUCTURE

The quality and safety of our buildings, bridges, highways and public transportation systems are essential to quality of life California. ISI has an impressive track record of involvement with major infrastructure projects.

LA Metro Crenshaw/LAX Transit Corridor Project

Los Angeles, CA

The project consists of an eight and a half mile-long light rail transit system that links LAX Airport to the City of Inglewood and the City of Los Angeles Historic Crenshaw District. The project will be built over a five year period that began the Spring of 2014. The scope of work includes two miles of cut-n-cover and U-wall, one mile of twin bored tunnel, one mile of bridge including the structure over I-405 (the busiest and most congested freeway in the U.S.), four and a half miles of at-grade guideway, and eight new stations.



Cross section of one of the eight new stations along the Crenshaw/LAX transit corridor

The project entails all associated rail, systems electrification to connect two active light rail systems. The new stations include Crenshaw/Exposition, Crenshaw/Martin Luther King Jr. Boulevard, Crenshaw/Vernon, Crenshaw/Slauson, Florence/West, Florence/La Brea, Florence/Hindry and Aviation/Century. New park'n ride lots at Crenshaw/Exposition, Florence/West and Florence/La Brea. All stations will provide safe and convenient customer interfaces and site connectivity and will reflect Metro's systemwide state-of-the art design standards. Project completion is planned for 2019. As a subconsultant, ISI is providing welding inspection and concrete sampling.

Transbay Transit Center Shop Inspections *San Francisco & San Bernardino, CA*



Transbay Transit Center Shop Welding

ISI's Torrance office performed structural steel and welding shop inspections, including NDT UT and MT at the Herrick fabrication facility in San Bernardino. The \$4 billion project consists of three interconnected elements:

- Replacing the former Transbay Terminal at First and Mission streets
- Extending Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center
- Creating a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center

Once constructed, the new Transit Center will accommodate more than 100,000 passengers each weekday and more than 45 million people per year and make public transportation a convenient and accessible option for everyone who lives, works and visits the San Francisco Bay Area. It will feature a 5.4 acre park on the roof of the bus and rail station. A complementary Transit Tower will be built adjacent to the Transit Center.

Bay Area Rapid Transit Berryessa Extension Fremont to North San Jose



Representation of the Berryessa BART Station

ISI is providing special inspection and materials testing services for the ten mile extension that will bring BART south from Warm Springs to Berryessa station. The project begins in Fremont south of the BART Warm Springs Station and proceeds in the former Union Pacific Railroad right-of-way through Milpitas with an intermediate station located adjacent to, and connected by bridge to, the Santa Clara Valley Transportation Authority's Montague light rail station near the Great Mall of the Bay Area and the Great Mall/Main Transit Center, and then to the Berryessa area of north San Jose, at the second station. The construction work includes the line, track, systems and stations. It represents the largest public works project in Santa Clara County's history.

Golden Gate Bridge South Approach, Phase II

San Francisco, CA

The Golden Gate Bridge Seismic Retrofit Phase II, South Approach Structures Project encompasses the structural retrofit of five structures at the south approach: the south approach viaduct, south anchorage housing, two south pylons, and the Fort Point arch. Since the project's inception in 2001, ISI has performed Quality Assurance concrete

inspections and testing for the south anchorage housing and south pylons.



ISI performed concrete inspections and testing for the anchorage housing and pylons of the Golden Gate Bridge South Approach

The Bridge was originally designed to withstand lateral forces of approximately 7.5% self-weight. The Phase II Project design criteria required that the retrofitted structures withstand an earthquake imposing lateral forces of up to 68 % to 220% of the structures' self-weight.

Golden Gate Bridge North Approach San Francisco, CA



Inspections were coordinated to avoid interfering with ongoing bridge traffic

The seismic retrofit measures applied to the Bridge Marin (north) Approach Viaduct structures consist of various methods of structural upgrades and include both the strengthening of structural components and the modification of structural response of the structures so they can better respond to strong motions without damage.

A primary challenge of Phase 1 was to construct the retrofit measures under continuous traffic. The construction inspection team closely monitored the structure throughout the complex process of installing temporary bracing, constructing and loading temporary supports for replacement of the towers, removing and replacing members, and strengthening members and connections.

San Francisco Oakland Bay Bridge Skyway Oakland, CA



ISI is proud to have provided inspection services for the new eastern section of the San Francisco Oakland Bay Bridge

The Skyway's decks, which accommodate five lanes of traffic and include 10-foot-wide shoulders to help keep traffic moving, are composed of 452 pre-cast concrete segments (standing three stories high, 90 feet wide and 25 feet long). Combined, the Skyway elements contain approximately 200 million pounds of structural steel, 120 million pounds of reinforcing steel, 200,000 linear feet of piling and about 450,000 cubic yards of concrete, weighing approximately 700 tons each. To construct the enormous piers that support the Skyway, 160 rebar and concrete-filled steel piles measuring 8 1/2 feet in diameter were driven deep into the Bay's soil. These massive piles were welded into the pile caps, which are underneath the columns.

San Francisco Oakland Bay Bridge, E2/T1 Foundations

San Francisco, CA

The E2, or eastern support, features two pile-supported footings linked by a reinforced concrete box and surmounted by pier columns to support the bridge's twin road decks. The construction of twin foundations requires eight piles to be driven down into bedrock. A 52-foot-long concrete box section connects the two footings. The dimensions of the three-part structure will be 220 feet long by 80 feet wide. Crews will then construct two, 120-foot-tall reinforced concrete pier columns.

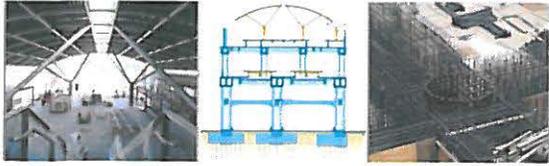
The foundation for the 530-foot-tall steel tower called the T1 footing entailed constructing a concrete and steel base structure supported by 13 cast-in-drilled-hole piles set deep into underlying rock. Crews bored holes 196 feet deep through the thin mud layer into the bedrock. The top 107 feet of the pile is encased in an eight-foot-diameter permanent steel shell. The bottom 98 feet of the pile is a "rock socket" with steel-cage-reinforced concrete extending down into the bedrock without a steel casing. The entire footing frame is encased in concrete and formed a final footing structure 85 feet long, 73 feet wide and 21 feet thick.

The SAS span is the signature span of the new bridge and is the longest single tower, self-anchored suspension bridge in the world.

San Francisco International Airport - BART Concourse H / Aerial Rapid Transit

San Francisco, CA

Concourse H, located in the new San Francisco International Terminal, houses the new Airport BART Station as well as the new SFIA AirTrain Station. The station is a four-level 264,000 sq. ft. reinforced concrete structure supported on precast concrete piles.



Concourse H is a four-level intermodal airport transportation structure

The canopy is designed with prescribed TK&Y node connections which SFIA requested ISI to inspect with automated ultrasonic testing in lieu of radiography. The station will serve as an entry/exit point for patrons arriving and leaving the airport via BART. At the third level of Concourse H is a train control room for both BART and the Light Rail Trains, office space and a walkway which connects the North Garage to the International Terminal.

Devil's Slide
San Mateo, CA



ISI provided daily materials testing of the shotcrete construction

Devil's Slide will be bypassed by two inland tunnels, providing a safe, dependable highway between Pacifica and Montara. This is the Devil's Slide Tunnels Project. The project calls for construction of two tunnels beneath San Pedro Mountain, each 30-feet wide and 4,200-feet long. At the northern end, a 1,000-foot bridge will span the valley at Shamrock Ranch. A re-alignment of Highway 1 at the southern end will provide safe transition into and out of

the tunnel. Approximately one-quarter mile south of the tunnel is the site of an Operations and Maintenance facility. An earthen embankment and vegetation-covered roof will help the facility blend with natural surroundings.

3rd Street Light Rail
San Francisco, CA

Construction for Phase 1 of this project started in 2002. It extends Muni Metro light rail service six miles south from the terminal at Fourth and King Streets. The line crosses the Fourth Street Bridge and runs along Third Street and Bayshore Boulevard, ending at the Bayshore Caltrain Station in Visitacion Valley with 19 stops along the way. This phase opened for service in 2005. ISI performed all soils, concrete, masonry and welding-related QC testing and inspection services for the general contractor. The construction scope of work included tracks, platforms, utilities, light poles and traffic signals.

Sunol Valley Water Treatment Plant Expansion and Treated Water Reservoir
Sunol, CA

The SVWTP Expansion and Treated Water Reservoir Project consisted of a new water treatment basin and retrofitting existing filters. The project also featured a single 17.5-million-gallon circular Treated Water Reservoir, a new 3.5-million-gallon rectangular chlorine contact tank and new chemical storage and feed facilities. The construction of approximately 1,000 feet of 78-inch-diameter pipe will connect the new Treated Water Reservoir to the existing plant discharge pipeline. This will include a tunnel crossing of Alameda Creek.



ISI provided field inspection, testing and laboratory services for the SVWTP plant expansion

Lenihan Dam Outlet Modifications

Los Gatos, CA

The Santa Clara Valley Water District's Outlet Modification Project replaced an aging outlet pipe under Lenihan Dam. The modified outlet consists of a 54 inch concrete lined steel pipe located inside of an approximately 2,000 foot long maintenance tunnel that runs through the eastern abutment of Lenihan Dam. The project also included a sloping, multi-port intake structure and a shaft located in Lexington Reservoir and an outlet structure located adjacent to Los Gatos Creek.

With a total project cost of approximately \$50 million, the Lenihan Dam Outlet Modifications Project received the Project of the Year award in the "Large Projects" category from the San Francisco Section of the American Society of Civil Engineers. The project was completed safely, under budget and on schedule.

Sunset Reservoir North Basin

Seismic Retrofit

San Francisco, CA

The Sunset Reservoir provides 60% of the clean water supply for the City of San Francisco, and is critical in case of major fire or earthquake. The seismic upgrade project work included strengthening the reservoir by the construction of six new moment frames, 11 stainless steel brace frames assemblies, 29 CIDH piers (ranging from 40 to 80 feet deep) connecting to 29 grade beams around the

reservoir and 29 shearwalls and struts inside the reservoir. The contract scope also included pouring a 7 inch slab on more than 300,000 square feet of the reservoir floor.

HEALTHCARE/LIFE SCIENCES

ISI is proud to play a supporting role in growing California's impressive reputation in the Healthcare/Life Sciences sector, by providing high quality inspection services for a broad range of facilities and essential services buildings in adherence with strict California Building Code (CBC) Title 24 regulations.

San Francisco General Hospital Rebuild

San Francisco, CA

This new \$890 million dollar San Francisco General Hospital and Trauma Center will include a 405-bed/14 operating room hospital and trauma center that will be the only Level 1 Trauma Center for residents of San Francisco and northern San Mateo County.



Foundation site for the new San Francisco General Hospital and Trauma Center

The facility will house cardiology/radiology/auxiliary support and plant services. Preoperative/ gastroenterology and clinical laboratory will be contained at the B1 level. Admitting and emergency will occupy the ground floor level. Obstetrics/pediatrics and NICU will be housed and the second floor. ICU/CCU will be located at the third and fourth

floors. Medical surgery and forensic will occupy the fifth and sixth floors and acute care for the elderly will occupy the seventh floor. The tunnel at the B1 level will connect to the nuclear medicine center in the existing hospital and the bridge at the second floor will connect to clinical laboratories, the cafeteria and support services.

The 538,270 SF hospital will be a steel moment frame structure on a mat foundation with base isolators. The hospital will have two (2) levels below grade and eight (8) levels above grade including a mechanical penthouse. Ties to the existing hospital will be made by means of a tunnel at the B1 level and a bridge at the 2nd floor.

New UCSF Mission Bay Hospital

San Francisco, CA

This new \$1.5 billion dollar 289-bed project includes a children's hospital with urgent/emergency care and pediatric ambulatory care facilities, a women's hospital for cancer care and specialty surgery, a center for mothers and newborns, and a hospital for adult cancer patients.



The new UCSF Mission Bay facility is designed to foster collaboration between care and research

The integrated specialty hospitals will be strategically located on a 14.5-acre parcel

adjacent to the UCSF's 43-acre biomedical research campus. That placement is designed to foster advances in medicine by encouraging collaboration among basic scientists, clinical researchers and physicians. This children's, women's and cancer hospital will enable UCSF to carry through on the promise of uniting advanced biomedical research with world-class clinical care, so research findings can be rapidly translated into medical advances that directly benefit patients.

San Leandro Medical Center

San Leandro, CA

This \$600 million dollar new medical center includes an acute-care hospital approximately 436,000 square feet in size, 6-stories tall and containing up to 264 licensed beds. The new hospital will include inpatient nursing functions, medical imaging/radiology, clinical labs and a blood bank, up to 10 operating rooms and recovery spaces, pharmacies, an emergency department, cafeteria and other building support departments. Phase 1 also includes a Hospital Support Building (HSB) of approximately 250,000 square feet in size, 6-stories tall, and located immediately adjacent to and connected to the new hospital. A new central utilities plant (CUP) will contain all of the necessary major mechanical and electrical equipment necessary to support the medical center, and surface parking for up to 2,000 parking spaces. A number of "green" building features will be implemented throughout the Medical Center based on the standards of the Green Guide for Healthcare.



The San Leandro Medical Facility shown under construction

Vacaville Medical Center

Vacaville, CA

Vacaville Medical Center — This 340,000 square-foot, four-story hospital will feature a 24-hour emergency department, 24-hour pharmacy, private rooms, and the latest technology. The hospital features all private, spacious rooms with space for family members to stay overnight. The new building and two adjacent medical offices offer a wide range of services — from primary care to specialty care and diagnostic and hospital services — on one campus. The Vacaville hospital will include emergency services, a critical care unit, medical-surgical services, and a full complement of diagnostic and support services.

Santa Clara Valley Medical Center

San Jose, CA

ISI provides special inspection and materials testing services for various projects located throughout the Santa Clara campus. ISI has worked closely with multiple project managers within the facilities division for projects including: Building M Ergotron Monitor Supports, Building M Patient Lifts, Ginger Lane Improvements, Building 2 & 3 SB 1953 Investigation, Ancillary Pneumatic Tube, Building E Pneumatic Tube, VHC Bascom Elevator and Rehabilitation Building Seismic Upgrade.

UCSF Genentech Hall

San Francisco, CA



ISI welding inspectors were onsite during construction of UCSF Genentech Hall to provide quality assurance to Title 24 requirements

Designed by the San Francisco office of SmithGroup, the new five-story, 434,000-gsf facility is the first structure to be completed on the UCSF Mission Bay campus.

Genentech Hall consists of two main laboratory wings, north and south of the spine. Each wing is divided into two laboratory suites with shared conference areas. The main spine through each floor connects all the laboratories. At the entrance to each laboratory area, a commons room with comfortable seating and small kitchen offers a more intimate space to use common reference materials, share information, provide for informal conferences, and break for coffee or lunch.

Helios West Energy Research Facility

Berkeley, CA

ISI is currently providing special inspections and materials testing for this five story plus basement laboratory and office building of approximately 113,000 gross square feet, comprised of wet research laboratory space, research support space, and office and administrative support space. The building structural system will be a steel frame and a mat slab foundation.



ISI provided special inspections and materials testing for the steel framed Helios laboratory facility

Li Ka-Shing Center for Biomedical Health Sciences

Berkeley, CA

Opened in January 2012, the University of California-Berkeley's Li Ka Shing Center for Biomedical and Health Sciences presents a modern building to research some of the most enduring medical challenges. Clad in glass, metal and terra cotta, the five-story, 200,000 square-foot facility meets California stringent performance requirements, as well as sustainable design criteria.

UCSF Institute for Regenerative Medicine

San Francisco, CA

The IRM is a 2-story, 67,070 gsf. laboratory research building at the UCSF Campus – Parnassus. The project incorporates an innovative structural steel seismic base isolation/foundation system to support a conventional steel brace – framed superstructure. ISI is providing all of the Special Inspection and Materials Testing services in accordance with CBC Title 24 requirements and State Fire Marshall approval. Included with the project is a new 600 ton chiller and 1200 ton cooling tower requiring OSHPD approval. The site has very challenging conditions as it is built into the existing steep slope, requiring a

stepped soil nail retaining wall to accommodate the construction.

EDUCATION

At ISI, we take pride in our role of providing expert inspection services in support of continued improvement and growth in California's education infrastructure. As applicable, ISI's special inspection services are provided in strict accordance with CBC Title 24 and our materials testing is performed in our DSA-accredited laboratory in Berkeley, CA.

City College of San Francisco Wellness Center

San Francisco, CA

City College's Wellness Center creates a first-ever front door for the campus on busy Ocean Avenue, integrating cleanly into the urban fabric. The building's LEED®-equivalent design fits 156,000 square feet of program space into a very small footprint utilizing clever vertical stacking. The new Community Wellness Center houses physical education, martial arts, dance, conditioning, team sports, and the college's first aquatics center.



The new Wellness Center was "inspection intensive" because of the numerous types of materials employed

A healthy indoor environment results from abundant natural lighting and clean central air. Generous windows show off the life of the building, integrating indoors and outdoors, and supporting a culture of health and wellness for the whole community.

Chinatown/Northbeach Campus, City College of San Francisco

San Francisco, CA

The new CCSF campus, which is currently under construction, on three lots within the City Parcel bound by Kearny Street to the west and Washington Street to the south and Columbus Avenue to north and east, will consist of two structures; a 14-story tower over a single basement level (Main Building) and a 4-story building over a single basement level (Annex Building).



New campus facility helps CCSF reach more students

Chabot Elementary School, Oakland Unified School District

Oakland, CA

Nestled between picturesque homes and a rolling landscape of oaks and grasses, Chabot Elementary School had nearly doubled in student size over the last 10 years. The strategic additions and remodeling to repurpose buildings have elevated the existing campus into a beautiful addition to the Rockridge area of Oakland. The project includes the design and construction of a two-story classroom building with 12 K-2nd grade classrooms; a multi-purpose building that serves as an auditorium/cafeteria space, repurposing the existing auditorium as a library; new kitchen and restrooms; two altered buildings; and six relocated portable buildings. The District and school have a strong

commitment to the inclusion of sustainable materials to meet Collaborative for High Performance Schools (CHPS) criteria and to provide a contextual design that reflected the unique style of the existing school and the neighborhood homes. The school is designed to meet CHPS standards.

Christopher High School, Gilroy Unified School District

Gilroy, CA



Christopher High School was designed as a collaboration between educators and the community. ISI works to make sure facilities are built to standards making them safe for students.

The school was designed with input from a diverse group of educators and community members. BCA Architects, located in Fremont, collaborated on the design with a User Group committee, comprised of staff from Gilroy High School, and a community Steering Committee. The City of Gilroy provided \$4.3 million for an aquatic center, which will be built on site in Phase II. Also negotiated was the after-hours joint use of a practice gym adding an additional \$4 million to the project. All joint-use spaces are designed with separate secure after-hours entrances for community usage.

The School District, working closely with BCA Architects and the teachers, was successful in securing \$6 million in innovative Career Technical Grants to re-envision the Arts programming, integrating academics with technical education. The school also received nearly \$600,000 in High Performance Schools

grants from the Office of Public School Construction for its sustainable design. The design optimizes natural daylight through ample windows and allows natural ventilation, with an energy efficient mechanical system.

By constructing a two-story campus that occupies less area, sweeping natural view corridors of the countryside and foothills were protected. A fan shaped organizational layout improves site and drop-off circulation, creates a secure campus, and allows for spacious outdoor learning environments around a central quadrangle. Phase I of the new 1,800-student school, for 900 students, opened for the Fall 2009 school year.

High quality, long lasting materials, as well as classical design elements such as natural stone and ornate entry facades, are used to reflect a collegiate and timeless architecture.

Bessie Carmichael Middle School and Filipino Education Center, San Francisco Unified School District

San Francisco, CA

An urban school site for more than a century, this 60 child preschool was converted into a middle school for 230 students in response to community outreach and feedback. The four story campus incorporates a range of design responses to program, site and context that support the school district's mission while also respectfully meeting the needs of middle school students.

On the ground level existing and new courtyards, play yards and breezeways are interlaced around a simple rectangular classroom volume, punctuated by large redwood bench loungers and landscaping. Moving up through the building, redwood railed stairs gesture like gangways up to the second floor breezeway; its deep canopy lifts

eastward, greeting the cityscape. South-east facing, these deep canopies provide shade and rain protection while creating outdoor learning and cafeteria seating. Benches line the walls inside and out and are scattered throughout the site to provide the students time to study or relax and socialize with peers. This building completed the LEED project checklist certifying it for eligibility but, in lieu of using funds for certification, new furniture was purchased for the building.

Center for the Arts, Castro Valley Unified School District

Castro Valley, CA

The 516 seat Center for the Arts features a proscenium stage, high-tech lighting, and a world-class sound system, created by Tony award-winning sound designer Elton Halley and Meyer Sound. The Center also includes a large exhibition space, also utilized as a recital hall, conference center and art gallery; classroom and rehearsal space; a state-of-the-art control room, three grand pianos, an electronic marquee, box office, dressing rooms, and storage areas.

MLK Middle School Dining Commons, Berkeley Unified School District

Berkeley, CA

With a capacity of 500 students in two dining halls and an open kitchen, the goal was to create a facility that embraces sustainability and green building design.



The dining commons opened its doors to students in November of 2008

The new dining commons maximizes the use of natural lighting and ventilation to conserve energy. Durable, low maintenance materials are used throughout. Wood was supplied from certified and sustainable-managed forests. The used of recycled content in all materials was maximized. The thermal mass of the concrete floors was used to retain and radiate heat back into the building maximizing energy efficiency coupled with energy efficient wall design and roof assemblies. Integrated building controls for mechanical, security and fire, and energy efficient lighting design as well as occupancy light sensors are some of the innovative environmental features being used. Low-VOC materials, paints, and adhesives are specified throughout the building. The exposed wood ceiling at the dining rooms and louvered roof monitors with fresh air intake at the floor level will provide passive natural ventilation without the need for ducts and fans. The kitchen of the New Dining Commons is designed around four cooking suites capable of preparing all of the food for the 900 students at King.

Carlmont High School, Sequoia Union High School District

Belmont, CA

As District Architect, DES has worked extensively on the Sequoia Union High School District's four high school campuses Carlmont, Menlo Atherton, Sequoia, and Woodside. Project types include libraries, performing arts centers, sports complexes, aquatic facilities, athletic fields, kitchens, administration buildings, classrooms, multi-use space, and science and technology buildings. Renovations include historic Carrington Hall on the Sequoia High School campus.

Transportation Technology Complex, College of Marin *Kentfield, CA*

The transformation of two auto shop buildings into a Transportation Technology Complex is a program at the heart of campus-wide commitment to Workforce Education. Building interiors have been reconfigured to support the innovative educational program, with all new equipment and building systems. A new addition links the two existing structures, provides office and student spaces and acts as a new entrance. Committed to principals of sustainability, the design team reused most of the existing building and incorporated new green features throughout, including solar hot water panels and clerestory windows for daylight and ventilation.

Dorraine Zief Law Library, University of San Francisco

San Francisco, CA

Seventy-foot deep-drilled piers secure the foundation of this four-level steel-frame structure. Meanwhile, cover plates, HSB's, S.C., and reduced beam section to instill critical seismic fortification in the structure's internal framework. The body of the building incorporates masonry, shotcrete, cast-in-place concrete, and metal deck fill. Finally, precast panels form the library's exterior. In accordance with the San Francisco Building Code's rigorous regulations on structural steel and welding, ISI performed continuous visual and ultrasonic (UT) testing during construction.

Hastings Law School Library Renovation, University of California

San Francisco, CA



Circulation desk in the newly renovated Hastings Law School Library

The existing library, burdened with squat ceilings, limited daylight and disorganized wayfinding, lacked energy, imagination and interaction. Promoting a sense of community and pride, the renovation supports visual connectivity, revives vitality and heightens operational efficiency. Thoughtful use of color invigorates collaboration and organizes spatial relationships. Flexible spaces accommodate large and small gatherings of students, faculty and staff. Housed within the urban fabric of the civic community, the library has become a social hub for camaraderie and enhances the student experience.

Lowell High School Modernization and New Academic Building, San Francisco Unified School District

San Francisco, CA

This school project included the modernization of existing structures and the addition of a new academic building both under same DSA application number. The new building is structural steel framed where fabrication took place at 3 different shops. Building materials included reinforced concrete, structural steel, high-strength bolting, expansion anchors and grouted bolts/dowels. There were also some shotcreted infills on existing structures. Safety

was a major issue since work was going on while students were in attendance.

Mt. Zion Cancer Research Facility, University of California, San Francisco

San Francisco, CA

An official NCI Cancer Center housing research laboratories and animal care facilities, this compelling new building has interiors drenched with daylight through its windowed street frontages and courtyard. Its sleek, contemporary visage expressive of technology belies human-scaled and comfortable interiors.

The first-floor public areas, like the fourth-floor labs, are set back from the street, creating visual relief at the sidewalk and designed to minimize the scale of the structure in a mixed-use neighborhood. Within the building, two main cancer research volumes are connected by shared circulation and support spaces.

Reed Elementary School Kindergarten Additions, Reed Union School District

Tiburon, CA

The learning environment of Reed Elementary School has been greatly enhanced by the kindergarten additions that now allow full day kindergarten, a new art classroom, a fresh music room, an invigorating 'nautical theme' library and a special learning center. The learning environment that is now in place, between new and modernized facilities, is much more flexible, diverse and representative of the energetic aspirations of staff and students. The decision to invest in highly flexible, energy efficient and functional spaces will serve this community for many generations to come.

COMMERCIAL/RESIDENTIAL

ISI has a substantial history of involvement in commercial construction projects California,

including high-rise buildings, office facilities, historical structures and commercial properties. ISI is a member of the California Council of Testing and Inspection Agencies (CCTIA).

1 Kearny/710 Market Streets

San Francisco, CA



1 Kearny/710 Market Street Building

This project is the construction of a new 11 story 60,000 square foot addition to an existing 12 story 64,000 square foot historical 1902 building.

The addition was a structural steel frame structure that is structurally connected to the adjacent historic building so that the complex will function as one building. The site is within the Kearny-Mason-Sutter Conservation District.

The existing building consisted of concrete slabs and a structural steel frame making it a

challenge to combine the new structure with the existing steel and concrete.

The Infinity

300 Spear Street, San Francisco, CA

The Infinity is a luxury residential complex and has four buildings, 8-stories, 10-stories, 37-stories and the other 42-stories, which house 654 residential units. ISI provided full-time inspections and materials testing for the basement excavation, underpinning, reinforced concrete, post-tensioned slabs, structural steel welding, anchor proof load testing, and fire-proofing.



At 1.4 million square feet, The Infinity luxury high-rise project kept ISI inspectors busy.

The five-level deep excavation was in bay mud and consisted of a shotcreted soil nail wall system and reinforced concrete slabs and columns. The superstructure combines reinforced concrete, post-tensioned decks,

with a core wall system in each building which provide shear.

AboveNet Communications

160 Harrison Street, San Francisco, CA

Following our initial structural investigations and report, ISI was awarded the special inspection/testing contract for AboveNet Communications.

This \$100 million fast paced project was to be completed in about 8 months. Services included inspection and testing for concrete, shotcrete, drilled-in concrete anchors, roof top structural steel, installation of new friction pendulum base isolation system (seismic), and ten generators for emergency power. The structural steel rooftop framing was fabricated in double shifts at PDM's plant in Eloy, Arizona. The fast track schedule featured around-the-clock construction including Saturday's. As many as four on-site inspectors were assigned to perform special inspections and tests on this seismic retrofit remodel of a concrete building, four levels above street with one basement level, which was originally built circa 1943. ISI's close proximity to the jobsite allowed its inspectors and staff to make regular jobsite visits and keep close communication with the Contractor, Architect, and Structural Engineer.

Arterra Building

300 Berry Street (Mission Bay N4 P1)

San Francisco, CA

Arterra is planned to be the City's first LEED Certified "Green High-rise Community". This project consists of three structures ranging from six to 16 stories, containing one and two-bedroom residences and townhomes with 260 parking spaces under a landscaped podium. Structural system is cast in place concrete with PT slabs. ISI's scope of work also included welding inspection of 700 piles.

Port of San Francisco Ferry Building Retrofit *San Francisco, CA*

The retrofit of this historic structure started in early 1997. The building is occupied and so much of the construction work has been during the night hours and on Saturdays. Several areas were damaged by the Loma Prieta earthquake. Renovation required the preservation of historical structural parts, which were integrated with new construction. Vintage steel was analyzed for weld-ability to new steel. Some cast iron structures were located but no welding was performed onto cast iron. The major strengthening was to add heavily reinforced shotcrete shear walls to the structure.



The Historic Ferry Building in need of renovation after the Loma Prieta earthquake

One Hawthorne LLC

San Francisco, CA

One Hawthorne is a 24-story, 332,585 square foot, 165-unit condominium building with three below-grade levels of parking. The superstructure consists of a reinforced concrete mat foundation, columns and walls,

and a post-tension slab system from level 1 to 20. The building is topped off with two structural steel levels.

NADEV – Transcontinental: State-of-the-Art Printing Facility for the San Francisco Chronicle

Fremont, CA

ISI performed special inspections on this 338,000 square foot state-of-the-art printing facility that started printing the San Francisco Chronicle as of July 6, 2009. The structural steel superstructure rests on a shallow but massive concrete foundation. Inspections were performed for the entire structure including all of the mainly European suppliers of the precision printing machinery.

The Museum of the African Diaspora

125 3rd Street, San Francisco, CA

ISI performed an extensive structural and welding inspection of the Museum of the African Diaspora.



ISI provided extensive structural and welding inspection for this museum of culture, history and art

MoAD is an international museum, unique in the world, poised to become one of the world's pre-eminent cultural institutions. It occupies the first three floors of the new, 40-story St. Regis Hotel, adjacent to the Moscone Convention Center and the San Francisco Museum of Modern Art.

San Francisco Public Utility Commission Sustainable Headquarters

San Francisco, CA



This 13-story office building features many Green Building Features, uses 32% less energy and 60% less water

The new administration building is a 13-story, 277,000 square foot building with one basement level. The superstructure is reinforced concrete with vertical post-tensioned core walls and post-tension slab system. It has two levels of structural steel on top and a 15 story structural steel wind turbine tower to generate electricity. The concrete for the structure was designed to reflect the sunlight into the building to reduce the use of electricity.

Sony Metreon Building

4th and Mission, San Francisco, CA

ISI provided Quality Assurance special inspections per SFBC for this unique project. The various tenant improvements included venues whose structures featured themed

areas including "Where the Wild Things Are," "The Way Things Work," "SONY Style," "Taste of San Francisco," and Discovery Channel Store. ISI's responsive project identification and

coordination system helped to mitigate minor difficulties between several contractors and owners.



Crenshaw/LAX Transit Corridor Project

Los Angeles, CA

Duration

2014 – 2019

Construction Value

\$2.06 billion

Owner

Los Angeles County
Metropolitan
Transportation Authority
(LA METRO)

Contractor

Walsh/Shea Corridor
Constructors

Engineer

HNTB

The project consists of an 8.5 mile long light rail transit system that links LAX Airport to the City of Inglewood and the City of Los Angeles Historic Crenshaw District. The project will be built over a five year period that began the spring of 2014. The scope of work includes 2 miles of cut-n-cover and U-wall, 1 mile of twin bored tunnel, 1 mile of bridge including the structure over I-405 (the busiest and most congested freeway in the U.S.), 4.5 miles of at-grade guideway, and 8 new stations.

The project entails all associated rail, systems electrification to connect two active light rail systems. The new stations include Crenshaw/Exposition, Crenshaw/Martin Luther King Jr. Bl, Crenshaw/Vernon, Crenshaw/Slauson, Florence/West, Florence/La Brea, Florence/Hindry and Aviation/Century, New park'n ride lots at Crenshaw/Exposition, Florence/West and Florence/La Brea. All stations will provide safe and convenient customer interfaces and site connectivity and will reflect Metro's systemwide state-of-the-art design standards. Project completion is planned for 2019. As a subconsultant, ISI is providing the following services:

Inspection & Testing Services

Structural Steel/Welding Inspection
Steel Deck Welding and Shear Studs
Concrete Placement and Sampling

Project Team

Jeff Roe, Project Manager; Martin
Lozano, Kevin Farmer, Elizabeth
Patterson

Reference

Mandy Oelschlager
Walsh/Shea Corridor Constructors
310.431.3968





Residential Street Rehabilitation

Torrance, CA



Located in the residential rehabilitation (Area C) between Dominguez St. and Torrance Blvd., this street rehabilitation revitalized the residential streets of Old Towne Torrance. The contractor activities included grinding and overlaying of asphalt pavement, repair and install concrete curb and gutters and repairing sidewalks/concrete ramps/driveway approaches.

ISI worked closely with the Construction Inspector to provide geotechnical and materials testing in accordance with the Standard Specifications for Public Works Construction.

Duration

2014

Construction Value

\$3M

Owner

City of Torrance

Inspection Services

- Soils Observation and Testing
- Aggregate Base Testing
- Source Inspection
- Asphalt Concrete Testing
- Laboratory Testing



Reference

Lauren Sablan

Civil Engineering Associate, Project Engineer, City of Torrance

Engineering Division

lsablan@torranceca.gov

310.681.6259

Project Team

Jeff Roe, Project Manager;





QUALITY IS OUR CORNERSTONE SAFETY IS OUR COMMITMENT

At ISI, we believe in creating a safe environment, from the structures we inspect to the materials we test. By embracing a culture of quality, we focus on perfecting our abilities, processes and products. Every ISI employee contributes toward this goal, creating a synergy that spurs innovation and provides our clients with exceptional value.

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FIRM PROFILE

Since 1995 ISI has provided the highest level of expertise, accuracy and integrity in special inspection and materials testing services. ISI is a certified SBE / MWBE / DBE company that consistently ranks as one of the largest woman-owned businesses in the San Francisco Bay Area, according to the San Francisco Business Times. The firm is headquartered in Berkeley, California, with additional offices in Torrance, San Francisco and Oakland. With over 80 employees, ISI has the depth of resources and breadth of knowledge to deliver high quality and responsive service to our

clients. ISI inspectors witness, record and report construction activities performed by project contractors and subcontractors. While maintaining our independent status, ISI is responsible to local building officials, the project structural engineer, the project architect and most importantly, our clients.

COMPREHENSIVE SERVICES

ISI has served in an integral role in the construction of a wide range of projects for a broad range of clients from the healthcare/life sciences, infrastructure, education and commercial fields. Through this work, we have gained experience with many public agencies such as the Department of General Services (DGS), California Department of Transportation (Caltrans), Office of Statewide Health Planning & Development (OSHPD), Division of the State Architect (DSA) and numerous municipalities.

ISI Delivers:

- Full Service, Accredited Testing Laboratories
- Knowledgeable and Personable Inspectors
- Experience on Fast-Paced, High-Profile Projects
- Competitive Pricing
- Involved Company Principals
- Commitment to Safety

ISI is well versed in the Standard Specifications for Public Works Construction (SSPWC), Caltrans, California Building Code (CBC/Title

24), and the Uniform Building Code (UBC). ISI employs California Licensed Civil, Geotechnical, and Quality Engineers; ICC, OSHPD, DSA, AWS, ANST, ACI and NICET certified inspectors and technicians; experienced supervisors and support staff.

FULL SPECTRUM OF QUALITY SERVICES

ISI is ready to provide QA/QC building inspection and testing of construction materials for projects of any scope and at any project stage. We are dedicated to providing the construction industry with only the highest level of expertise, accuracy, and integrity in the performance of inspection and testing services. At ISI, we are committed to meeting the stringent quality control requirements of every project we undertake and we believe that the services we provide are vital for maintaining public safety in the built environment.



Special Inspection Services

Soils and Asphalt

- Grading Observations
- Density Testing (Nuclear Gauge/Sand Cone)
- Source Inspection/Material Sampling

Reinforced Concrete

- Concrete Placement and Sampling
- Batch Plant Inspection
- Reinforcing Steel Placement Inspection

Precast Concrete Fabrication

- Concrete Placement and Sampling
- Reinforcing Steel and Tendon Inspection
- Tendon Stressing Observations

Post-Tensioned Concrete

- Concrete Placement and Sampling
- Reinforcing Steel and Tendon Placement Inspection
- Tendon Stressing Observations

Spray-Applied and Intumescent Fireproofing

- Substrate Inspection
- Application Inspection
- Thickness Verification
- Adhesion/Cohesion Testing

Roofing / Waterproofing

- Substrate Inspection

Shotcrete

- Pre-Production Panel/Nozzleman Qualification
- Reinforcing Steel Placement Inspection
- Shotcrete Placement Inspection

Structural Masonry and Veneer

- CMU and Veneer Placement and Sampling
- Reinforcing Steel Placement Inspection
- Grout Placement Inspection
- Source Material Sampling

Structural Steel and Welding

- Material Identification
- Shop Fabrication Welding Inspection
- Field Welding Inspection
- Nondestructive Testing (UT, MT, PT, RT)
- High Strength Bolting Inspection

Wood Framing

- Material Verification
- Shear Wall Nailing Inspection
- Floor Diaphragm Nailing Inspection

Anchor and Dowel Installation

- Installation Inspection
- Torque/Proofload Testing

Professional/Specialty Services

Engineering

- Geotechnical Engineering Consultation
- Structural Investigation/Surveys
- Expert Witness

Document Review

- Concrete Mix Design Review
- Shotcrete Mix Design Review
- Grout Mix Design Review
- Welding Procedure/Qualification Review
- Quality Control Procedure Review

Quality Control Management

- Develop Quality Control Program
- Implement/Manage Quality Control Program

Ground Penetrating Radar (GPR)

- Concrete/Soil Analysis
- Rebar/Tendon Location
- Conduit, PVC Location
- Utility Location

Reinforcement Survey

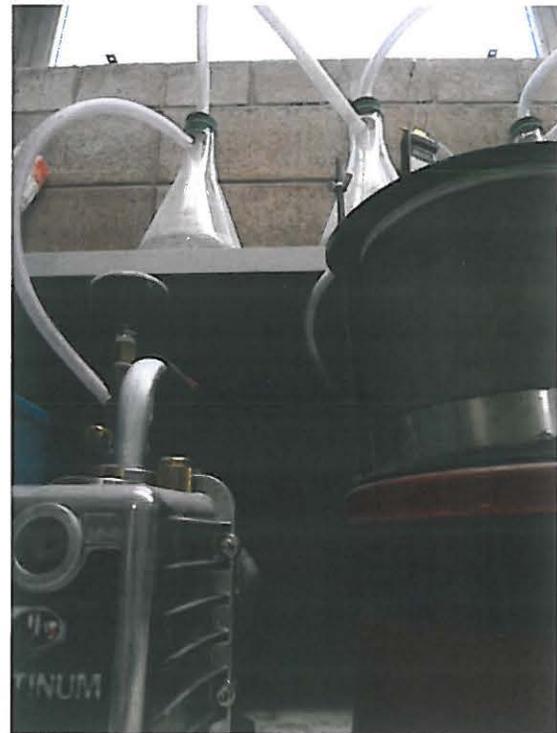
- Pachometer
- Ferrosan

Floor Systems

- Floor Flatness/Floor Levelness (dipstick)
- Floor Moisture Testing

LABORATORY QUALIFICATIONS

ISI inspects all phases of construction and conducts all testing in-house. Conforming laboratory reports are typically emailed within 24 hours following completion of testing. Failing tests are directly communicated to our Project Manager who will immediately pass this information on to the project management team.



Materials Testing Laboratories

We operate full service Materials Testing Laboratories in Berkeley and Torrance, CA. We test concrete, aggregate, soil, masonry, hot mix asphalt, rebar, metals and fireproofing for compliance to various test standards. Our laboratories are under the technical direction of registered professional engineers. The

testing facilities are inspected by, and maintain accreditations with, AMRL/AASHTO, CCRL, DSA



and Caltrans. Both laboratories are inspected by, and enrolled in, the Reference Sample programs administered by the Cement and Concrete Reference Laboratory (CCRL) and the American Association of State Highway Transportation Officials (AMRL/AASHTO).

The Quality Assurance Program at each facility incorporates the elements of AASHTO R-18, ASTM E329 Testing or Special Inspection; C1077 Concrete/Aggregate; D3666 Hot Mix Asphalt and D3740 Soil/Rock quality system standards. Our testing facilities are in compliance with the provisions established in ASTM E329, Specification for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction. Testing is performed by trained and certified technicians per American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO) or California Test Methods (CTM). ISI maintains a full range of Construction Testing Materials (CTM) and Geotechnical testing equipment. Some of our testing equipment and capabilities include:

- 500,000 lb Forney Block Compression Testing Machine
- 300,000 lb Instron/Satec Universal Testing Machine
- 250,000 lb DK Compression Testing Machine
- Cox & Sons Kneading Compactor
- GSSI Ground Penetrating Radar System

Geotechnical Laboratory

ISI also operates a full service Geotechnical Laboratory in Berkeley, CA that is equipped to

perform all of the common and many of the advanced geotechnical tests. This laboratory is inspected by, and maintains accreditations, with AMRL/AASHTO as well as enrolled in the Reference Sample Program. The lab manager has over 30 years of experience and is certified by National Institute for Certification in Engineering Technologies (NICET) as a Level III in the specialty of Geotechnical Engineering Technology – Laboratory.

Laboratory Testing Services

Concrete Laboratory

- Equilibrium
- Modulus of Elasticity
- Dry Unit Weight
- Shrinkage
- Compression

Masonry Laboratory

- Compression
- Absorption
- Shrinkage
- Shear

Soils Laboratory

- R-value
- Sieve Analysis
- Specific Gravity
- Compaction
- Plasticity Index

Aggregate Laboratory

- Sulfate Soundness
- Aggregate Qualification Testing
- Specific Gravity of Aggregate
- Percent Crushed Particles

Geotechnical Laboratory

- Triaxial Permeability
- Triaxial Consolidated Undrained
- Constant Rate of Strain Consolidation
- Direct Shear

- Triaxial Unconsolidated Undrained Shear Test

Asphalt Laboratory

- Hveem (LTMD-Lab Test Maximum Density)
- S-Value (Stabilometer)
- Marshall (Flow & Stability)
- Rice (Theoretical Density)
- Oil Content

Metals Laboratory

- Rebar (Including couplers/welded bars) Tensile & Bend
- Macroetching on welded coupons
- High Strength Bolts



APPROACH TO QUALITY AND RESPONSIVE SERVICE

ISI performs inspections and tests according to Contract Documents and Building Permit Requirements. We do this by providing highly qualified inspectors, innovative technical tools, effective communication, and ongoing training. Our inspectors arrive at the jobsite armed with project documents loaded on their iPads for easy reference. The ISI team puts a premium on inspector experience and the ability to effectively communicate. ISI routinely holds in-house training seminars to provide our inspectors with assistance in attaining their personal goals by helping to improve their inspection knowledge and skills. Along with a full technical program, we assist each inspector with on-the-job training, code interpretation and Quality Assurance problem solving.

ISI responds quickly to requests for personnel or technical support. Typically, we request a 24-hour advance notification of our services.

With over 70 employees, ISI employs a sufficient number of engineers, certified inspectors, and technicians so that we can service multiple inspection requests on various projects quickly and simultaneously—even accommodating accelerated construction schedules which may include overtime and weekend work. We employ a computerized dispatch system and provide all inspectors with cell phones and iPads to enhance communications.

Daily field reports are provided to the designated owner's representatives following completion of the fieldwork. This concise documentation allows for the highest traceability to be accessible immediately. Our

reporting and billing systems are readily adaptable to the specific requirements of your project. These proven systems for technical and administrative responsiveness assure timely service. We adapt to meet our customers' needs, which results in rewarding, long-term relationships.

INNOVATIONS IN REPORTING

Expedient and efficient reporting is essential, as delays inevitably cost time and money. With today's technological advancements paperless systems are now a reality. ISI delivers instant access to field inspection and laboratory testing reports as soon as they are completed on the project. GreenBox is our solution.



GreenBox is a web-based system created by ISI specifically for the testing and inspection industry. GreenBox brings everything, from dispatch to field reporting to lab results, together in one easy location. Once an inspection request is entered, GreenBox generates required documents, such as the time record for the field inspector, the anticipated field report for the inspection task, and then forwards this information to the selected inspector via email. When the inspection is complete, our inspector logs into GreenBox through a secure website on a company-issued iPad and completes the required documents.

With GreenBox, field reports can be delivered immediately via email to whoever needs them. Weekly reports are collated with a cover sheet and distributed to the project distribution list either by email or through the GreenBox secure client website. This is critical for off-site inspections, especially for non-compliant items that require the immediate attention of the

construction management team and design professionals. Timely laboratory test results are also critical to the progress of the project. This is not a problem with GreenBox. Once the tests are performed the results are immediately available on the GreenBox secure client website.

Visit our website to view a [GreenBox demonstration video](http://www.inspectionsservices.net)
www.inspectionsservices.net



COMMITMENT TO SAFETY

At ISI, we consider injury and illness prevention just as important as quality production, cost control and superior customer service. This commitment is embodied in our in-house Director of Health and Safety, Bill Bellm. All

employees participate in an ongoing safety awareness program.

Because we value the safety of our employees above all else, ISI employs an in-house Health and Safety Director

Our Injury & Illness Prevention Program (IIPP) provides guidance and training for all ISI employees. Bill maintains the IIPP for compliance with all applicable Occupational Safety and Health Administration (OSHA) standards. Bill is responsible for maintaining safety standards at jobsites and facility locations, providing safe work environments, conducting safety training, identifying and providing proper Personal Protective Equipment (PPE) for job assignments in the field and laboratory. He visits construction sites to perform safety inspections, manage incidents, and minimize injury-related liability.



EMPOWERED LEADERSHIP

ISI was founded based on the strident desire to provide exceptional value to our clients, an innovative and inspirational work environment for our employees, and, most importantly, a built environment that is safe for the public.

ISI's principals and management are accomplished professionals, Registered Professional Engineers and/or Certified Inspectors, with an average of 23 years of experience.

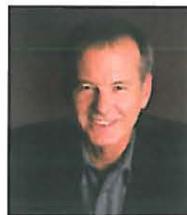


Leslie Sakai

President/CEO

As Principal/Co-Founder, Leslie has served as President of ISI since 1995 and plays a top role in the decision

making for all operations. She previously served on the Board for Asian American Architects and Engineers (AAAE), where she was Past President, and is recognized as a member of the Council of Asian American Business Associates (CAABA). She is also a member of the Caltrans District 4 Small Business Council. Prior to incorporating ISI, she assisted with the operations/management of Inspection Services, where she implemented inspection-reporting procedures for schools and hospitals.



Edward King

Executive Vice President

Ed brings 34 years of testing and inspection experience as VP of Operations, overseeing construction projects and

technical personnel for ISI. He is ICC certified for Structural Steel Welding, Reinforced Concrete, Plumbing, and Mechanical. Other certifications include ASNT, AWS/CWI, OSHPD,

and DSA/ORS. Ed has managed the inspection activities for the San Francisco/Oakland Bay Bridge Superstructure Replacement, SFIA's new International Terminal and the SFIA BART/ART station. These two projects exceed \$2 billion in construction costs. His article describing the Automated Ultrasonic Testing system employed at the SFIA International Terminal was published by American Welding Society's Inspection Trends magazine.



Michael Zell

Chief Operating Officer

Mike joined ISI as Business Development and Project Manager, he is ICC certified for Reinforced Concrete,

Structural Masonry, Spray Applied Fireproofing, and other certifications including AWS/CWI, RSO, OSHA 10-hour. Mike has an extensive background in Quality Assurance testing and inspection services, including geotechnical engineering. His experience includes technical engineering related to civil and structural materials testing procedures with over 20 years of experience in construction testing and inspection in Central and Northern California. Mike has served as the Project Manager for numerous fast-paced, high profile OSHPD, DSA, Refinery, Power Plant, and Infrastructure projects.



Bob Haynes, Jr.

Vice President of Operations

Bob has almost 20 years of experience that encompasses a wide range of special inspection and

materials testing services. As Vice President of Operations at ISI, Bob oversees and facilitates various aspects of the day-to-day operations offering creative solutions to unique challenges. Bob's relentless commitment and

straightforward approach is a valued asset to both our company and to our clientele. In addition to Operations responsibilities, Bob is actively involved with many projects to maintain the team's focus on goals for schedule, cost and quality service. Bob serves as a senior project manager on specific high-demand projects which require his expertise. His field experience as a Special Inspector gives him the knowledge to interpret standards, specifications, and procedures in compliance with building codes, as well as the ability to communicate effectively with our clients and our inspection staff. Bob's project experience includes new construction and seismic retrofits in infrastructure, commercial, residential and industrial development.



Jeff Roe

Division Manager

Jeff joins Inspection Services Inc. with fifteen years of experience in Materials Testing, Special Inspection

and Geotechnical Testing throughout Southern California. He has held management positions over the past ten years as a Sr. Project Manager, Divisional Manager and most recently Corporate Operations Manager. His experience ranges from commercial, health care, education, process, transportation and industrial projects. Areas of responsibility include project management, business development, estimating services, quality control, safety, fiscal accountability, staffing, and implementation of new management procedures for a full range of projects. Mr. Roe has extensive project experience with public projects through Department of General Services (DGS), Division of State Architect (DSA), Caltrans, General Services Administration (GSA), and City/County projects.



Can Çelik, PE, GE
Senior Geotechnical Engineer

Can's career in geotechnical engineering began with road and airport construction

projects in Germany and The Netherlands. After receiving his professional engineering license as a Civil Engineer in 2000, he became ISI's Chief Civil Engineer supervising all special inspection activities as ISI's Responsible Professional Engineer. After receiving his California Geotechnical Engineer license in 2003, Can began concentrating on geotechnical investigations, design and observation during construction especially for Title 24 DSA School and OSHPD Hospital projects. With his extensive professional background, Can fills a vital role as the technical point of contact on school and hospital projects, where he is often represents ISI as the Project Manager and Geotechnical Engineer of Record.



Philip Nishikawa, PE
Senior Engineer

With 40 years of experience and expertise in Structural Steel/Welding, Phil has managed projects and

personnel, as well as provided technical supervision for relevant ISI projects. With his extensive experience managing structural steel/welding and metals testing divisions, Phil has established guidelines for inspector training to enhance staff qualifications. He manages projects with up to 30 inspectors and oversees shop/field welding for various high rise structures, schools and hospitals in Northern California.



Sam Sayawat, PE
Senior Project Engineer

Sam received his professional Civil Engineering license in 2006. He joined ISI in 2011 with over 14 years of hands-

on experience in geotechnical engineering, construction inspection, materials testing and environmental consulting. Working with officials of public agencies and private developers, he conducted, supervised and managed investigations for the design and construction of several hundred projects throughout the State of California. In 2009 Sam earned recognition by the Division of the State Architect (DSA) as a Responsible Engineer of Record for certified testing agencies. He has worked on a variety of different projects including schools, hospitals, transportation, pipelines, freeway construction and commercial/residential developments. He has been successful in obtaining Federal and State accreditation from CCRL, Caltrans and AASHTO.



Greg Santiago
Project Manager

Greg has over 16 years of Special Inspection and Materials Testing experience across a wide range of

services. Greg began his career in 1996 as a Special Inspector. He currently holds the position of Project Manager at ISI, working out of our headquarters in Berkeley, CA. Greg is primarily responsible for business development, managing the progression of individual projects, and supervising the inspection staff. Greg's project experience includes new construction and seismic retrofits in infrastructure, commercial, residential and industrial development.



Patricia Slavin-Hodgkins

Laboratory Manager

Patricia came to ISI in 2011 bringing over 30 years of industry experience, she was instrumental in expanding

our geotechnical laboratory testing capabilities. Patricia’s training started at the Corps of Engineers in Omaha, Nebraska, where she gained over 12 years of experience before transferring with the Corps to the Bay Area. Patricia has conducted testing for the California State Department of Water Resources for their Levee Rehabilitation Project and the Delta Habitat Conservation and Conveyance Project (DHCCP). Patricia is NICET Level III (National Institute for Certification in Engineering Technologies) in Geotechnical Engineering Technology-Laboratory, a member of ASTM, and is a past treasurer of the Geotechnical Section of ASCE (American Society of Civil Engineers). Her laboratory skills are often sought by other engineering firms on a consultant basis.



Lorenzo Lawson

Laboratory Supervisor

With over 24 years of materials testing experience, Lorenzo’s knowledge and expertise in Caltrans, ASTM,

and AASHTO test procedures, and his 12 years of experience in quality assurance, gives him a solid background for soils, concrete and asphalt testing. Lorenzo has excellent working and teaching skills and has supervised over 6 lab technicians. Lorenzo’s industry knowledge and experience provide an excellent foundation for his role as Laboratory Supervisor.



Bill Bellm

Director of Health & Safety

As ISI Safety Director, Bill is responsible for assisting the project team with day-to-day safety issues as they occur. Bill

reviews specific hazard safety issues brought to his attention and assists in safety inspections, accident investigations, emergency preparedness and employee safety training. Bill routinely conducts in-house safety seminars for ISI personnel. In addition, he performs on-site visits to ensure that ISI personnel understand the potential safety hazards on construction sites, to confirm that jobsites and facility locations maintain safety standards that promote safe work environments, and to ensure that ISI employees comply with Occupational Safety and Health Administration (OSHA) laws and regulations.

PROJECT EXPERIENCE

ISI provides special inspection and materials testing services for all types of new, renovation and/or retrofit public and private projects, with a special focus on:

Healthcare/Life Sciences » Providing quality assurance for healthcare and research facilities

Infrastructure » Bringing inspection services to structures used by the public every day

Education » Helping build quality environments for students and educators

Commercial » Ensuring quality across prime office and retail projects

HEALTHCARE/LIFE SCIENCES

ISI is proud to play a supporting role in growing the Bay Area's impressive reputation in the Healthcare/Life Sciences sector, by providing high quality inspection services for a broad range of facilities and essential services buildings in adherence with strict California Building Code (CBC) Title 24 regulations.

San Francisco General Hospital Rebuild *San Francisco, CA*

This new \$890 million dollar San Francisco General Hospital and Trauma Center will include a 405-bed/14 operating room hospital and trauma center that will be the only Level 1 Trauma Center for residents of San Francisco and northern San Mateo County.



Foundation site for the new San Francisco General Hospital and Trauma Center

The facility will house cardiology/radiology/auxiliary support and plant services. Preoperative/ gastroenterology and clinical laboratory will be contained at the B1 level. Admitting and emergency will occupy the ground floor level. Obstetrics/pediatrics and NICU will be housed and the second floor. ICU/CCU will be located at the third and fourth floors. Medical surgery and forensic will occupy the fifth and sixth floors and acute care for the elderly will occupy the seventh floor. The tunnel at the B1 level will connect to the

nuclear medicine center in the existing hospital and the bridge at the second floor will connect to clinical laboratories, the cafeteria and support services.

The 538,270 SF hospital will be a steel moment frame structure on a mat foundation with base isolators. The hospital will have two (2) levels below grade and eight (8) levels above grade including a mechanical penthouse. Ties to the existing hospital will be made by means of a tunnel at the B1 level and a bridge at the 2nd floor.

New UCSF Mission Bay Hospital *San Francisco, CA*

This new \$1.5 billion dollar 289-bed project includes a children's hospital with urgent/emergency care and pediatric ambulatory care facilities, a women's hospital for cancer care and specialty surgery, a center for mothers and newborns, and a hospital for adult cancer patients.



The new UCSF Mission Bay facility is designed to foster collaboration between care and research

The integrated specialty hospitals will be strategically located on a 14.5-acre parcel adjacent to the UCSF's 43-acre biomedical research campus. That placement is designed to foster advances in medicine by encouraging collaboration among basic scientists, clinical

researchers and physicians. This children's, women's and cancer hospital will enable UCSF to carry through on the promise of uniting advanced biomedical research with world-class clinical care, so research findings can be rapidly translated into medical advances that directly benefit patients.

San Leandro Medical Center

San Leandro, CA

This \$600 million dollar new medical center includes an acute-care hospital approximately 436,000 square feet in size, 6-stories tall and containing up to 264 licensed beds. The new hospital will include inpatient nursing functions, medical imaging/radiology, clinical labs and a blood bank, up to 10 operating rooms and recovery spaces, pharmacies, an emergency department, cafeteria and other building support departments. Phase 1 also includes a Hospital Support Building (HSB) of approximately 250,000 square feet in size, 6-stories tall, and located immediately adjacent to and connected to the new hospital. A new central utilities plant (CUP) will contain all of the necessary major mechanical and electrical equipment necessary to support the medical center, and surface parking for up to 2,000 parking spaces. A number of "green" building features will be implemented throughout the Medical Center based on the standards of the Green Guide for Healthcare.



The San Leandro Medical Facility shown under construction

Vacaville Medical Center

Vacaville, CA

Vacaville Medical Center — This 340,000 square-foot, four-story hospital will feature a 24-hour emergency department, 24-hour pharmacy, private rooms, and the latest technology. The hospital features all private, spacious rooms with space for family members to stay overnight. The new building and two adjacent medical offices offer a wide range of services — from primary care to specialty care and diagnostic and hospital services — on one campus. The Vacaville hospital will include emergency services, a critical care unit, medical-surgical services, and a full complement of diagnostic and support services.

Santa Clara Valley Medical Center

San Jose, CA

ISI provides special inspection and materials testing services for various projects located throughout the Santa Clara campus. ISI has worked closely with multiple project managers within the facilities division for projects including: Building M Ergotron Monitor Supports, Building M Patient Lifts, Ginger Lane Improvements, Building 2 & 3 SB 1953 Investigation, Ancillary Pneumatic Tube, Building E Pneumatic Tube, VHC Bascom Elevator and Rehabilitation Building Seismic Upgrade.

UCSF Genentech Hall

San Francisco, CA

Designed by the San Francisco office of SmithGroup, the new five-story, 434,000-gsf facility is the first structure to be completed on the UCSF Mission Bay campus.



ISI welding inspectors were onsite during construction of UCSF Genentech Hall to provide quality assurance to Title 24 requirements

Genentech Hall consists of two main laboratory wings, north and south of the spine. Each wing is divided into two laboratory suites with shared conference areas. The main spine through each floor connects all the laboratories. At the entrance to each laboratory area, a commons room with comfortable seating and small kitchen offers a more intimate space to use common reference materials, share information, provide for informal conferences, and break for coffee or lunch.

Helios West Energy Research Facility *Berkeley, CA*



ISI provided special inspections and materials testing for the steel framed Helios laboratory facility

ISI is currently providing special inspections and materials testing for this five story plus basement laboratory and office building of approximately 113,000 gross square feet, comprised of wet research laboratory space, research support space, and office and administrative support space. The building structural system will be a steel frame and a mat slab foundation.

Li Ka-Shing Center for Biomedical Health Sciences

Berkeley, CA

Opened in January 2012, the University of California-Berkeley's Li Ka Shing Center for Biomedical and Health Sciences presents a modern building to research some of the most enduring medical challenges. Clad in glass, metal and terra cotta, the five-story, 200,000 square-foot facility meets California stringent performance requirements, as well as sustainable design criteria.

UCSF Institute for Regenerative Medicine *San Francisco, CA*

The IRM is a 2-story, 67,070 gsf. laboratory research building at the UCSF Campus – Parnassus. The project incorporates an innovative structural steel seismic base isolation/foundation system to support a conventional steel brace – framed superstructure. ISI is providing all of the Special Inspection and Materials Testing services in accordance with CBC Title 24 requirements and State Fire Marshall approval. Included with the project is a new 600 ton chiller and 1200 ton cooling tower requiring OSHPD approval. The site has very challenging conditions as it is built into the existing steep slope, requiring a stepped soil nail retaining wall to accommodate the construction.

INFRASTRUCTURE

The quality and safety of our buildings, bridges, highways and public transportation systems are essential to quality of life in the Bay Area. ISI has an impressive track record of involvement with major Bay Area infrastructure projects. ISI's materials testing laboratory is fully accredited by Caltrans, CCRL and AMRL.

Golden Gate Bridge South Approach, Phase II

San Francisco, CA



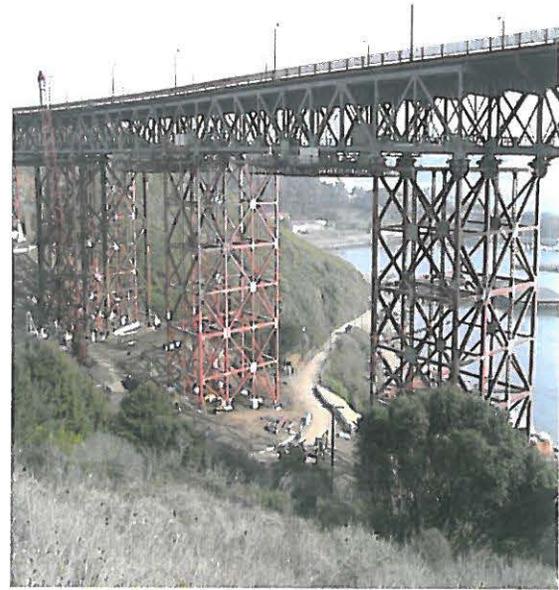
ISI performed concrete inspections and testing for the anchorage housing and pylons of the Golden Gate Bridge South Approach

The Golden Gate Bridge Seismic Retrofit Phase II, South Approach Structures Project encompasses the structural retrofit of five structures at the south approach: the south approach viaduct, south anchorage housing, two south pylons, and the Fort Point arch. Since the project's inception in 2001, ISI has performed Quality Assurance concrete inspections and testing for the south anchorage housing and south pylons.

The Bridge was originally designed to withstand lateral forces of approximately 7.5% self-weight. The Phase II Project design criteria required that the retrofitted structures withstand an earthquake imposing lateral forces of up to 68 % to 220% of the structures' self-weight.

Golden Gate Bridge North Approach

San Francisco, CA



Inspections were coordinated to avoid interfering with ongoing bridge traffic

The seismic retrofit measures applied to the Bridge Marin (north) Approach Viaduct structures consist of various methods of structural upgrades and include both the strengthening of structural components and the modification of structural response of the structures so they can better respond to strong motions without damage. A primary challenge of Phase 1 was to construct the retrofit measures under continuous traffic. The construction inspection team closely monitored the structure throughout the complex process of installing temporary bracing, constructing and loading temporary supports for replacement of the towers, removing and replacing members, and strengthening members and connections.

San Francisco Oakland Bay Bridge Skyway Oakland, CA



ISI is proud to have provided inspection services for the new eastern section of the San Francisco Oakland Bay Bridge

The Skyway's decks, which accommodate five lanes of traffic and include 10-foot-wide shoulders to help keep traffic moving, are composed of 452 pre-cast concrete segments (standing three stories high, 90 feet wide and 25 feet long). Combined, the Skyway elements contain approximately 200 million pounds of structural steel, 120 million pounds of reinforcing steel, 200,000 linear feet of piling and about 450,000 cubic yards of concrete, weighing approximately 700 tons each. To construct the enormous piers that support the Skyway, 160 rebar and concrete-filled steel piles measuring 8 1/2 feet in diameter were driven deep into the Bay's soil. These massive piles were welded into the pile caps, which are underneath the columns.

San Francisco Oakland Bay Bridge, E2/T1 Foundations

San Francisco, CA

The E2, or eastern support, features two pile-supported footings linked by a reinforced concrete box and surmounted by pier columns to support the bridge's twin road decks. The construction of twin foundations requires eight piles to be driven down into bedrock. A 52-foot-long concrete box section connects the two footings. The dimensions of the three-

part structure will be 220 feet long by 80 feet wide. Crews will then construct two, 120-foot-tall reinforced concrete pier columns.

The foundation for the 530-foot-tall steel tower called the T1 footing entailed constructing a concrete and steel base structure supported by 13 cast-in-drilled-hole piles set deep into underlying rock. Crews bored holes 196 feet deep through the thin mud layer into the bedrock. The top 107 feet of the pile is encased in an eight-foot-diameter permanent steel shell. The bottom 98 feet of the pile is a "rock socket" with steel-cage-reinforced concrete extending down into the bedrock without a steel casing. The entire footing frame is encased in concrete and formed a final footing structure 85 feet long, 73 feet wide and 21 feet thick.

The SAS span is the signature span of the new bridge and is the longest single tower, self-anchored suspension bridge in the world.

Transbay Transit Center (Transbay Terminal)

San Francisco, CA



A CDSM wall is needed as a moisture barrier because the lower levels of the Transbay Transit Center are below the water line.

The \$4 billion project consists of three interconnected elements:

- Replacing the former Transbay Terminal at First and Mission streets
- Extending Caltrain and California High Speed Rail underground from Caltrain's

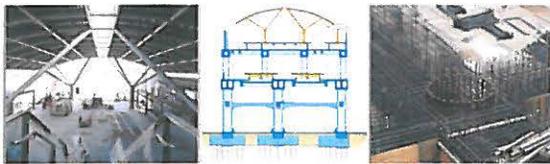
current terminus at 4th and King streets into the new downtown Transit Center

- Creating a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center

Once constructed, the new Transit Center will accommodate more than 100,000 passengers each weekday and more than 45 million people per year and make public transportation a convenient and accessible option for everyone who lives, works and visits the San Francisco Bay Area. It will feature a 5.4-acre park on the roof of the bus and rail station. A complementary Transit Tower will be built adjacent to the Transit Center.

San Francisco International Airport - BART Concourse H / Aerial Rapid Transit

San Francisco, CA



Concourse H is a four-level intermodal airport transportation structure

Concourse H, located in the new San Francisco International Terminal, houses the new Airport BART Station as well as the new SFIA AirTrain Station. The station is a four-level 264,000 sq. ft. reinforced concrete structure supported on precast concrete piles. The canopy is designed with prescribed TK&Y node connections which SFIA requested ISI to inspect with automated ultrasonic testing in lieu of radiography. The station will serve as an entry/exit point for patrons arriving and leaving the airport via BART. At the third level of Concourse H is a train control room for both BART and the Light Rail Trains, office space and a walkway which

connects the North Garage to the International Terminal.

Devil's Slide

San Mateo, CA



ISI provided daily materials testing of the shotcrete construction

Devil's Slide will be bypassed by two inland tunnels, providing a safe, dependable highway between Pacifica and Montara. This is the Devil's Slide Tunnels Project. The project calls for construction of two tunnels beneath San Pedro Mountain, each 30-feet wide and 4,200-feet long. At the northern end, a 1,000-foot bridge will span the valley at Shamrock Ranch. A re-alignment of Highway 1 at the southern end will provide safe transition into and out of the tunnel. Approximately one-quarter mile south of the tunnel is the site of an Operations and Maintenance facility. An earthen embankment and vegetation-covered roof will help the facility blend with natural surroundings.

3rd Street Light Rail

San Francisco, CA

Construction for Phase 1 of this project started in 2002. It extends Muni Metro light rail service six miles south from the terminal at Fourth and King Streets. The line crosses the Fourth Street Bridge and runs along Third Street and Bayshore Boulevard, ending at the Bayshore Caltrain Station in Visitacion Valley with 19

stops along the way. This phase opened for service in 2005. ISI performed all soils, concrete, masonry and welding-related QC testing and inspection services for the general contractor. The construction scope of work included tracks, platforms, utilities, light poles and traffic signals.

Sunol Valley Water Treatment Plant Expansion and Treated Water Reservoir

Sunol, CA



ISI provided field inspection, testing and laboratory services for the SVWTP plant expansion

The SVWTP Expansion and Treated Water Reservoir Project consisted of a new water treatment basin and retrofitting existing filters. The project also featured a single 17.5-million-gallon circular Treated Water Reservoir, a new 3.5-million-gallon rectangular chlorine contact tank and new chemical storage and feed facilities. The construction of approximately 1,000 feet of 78-inch-diameter pipe will connect the new Treated Water Reservoir to the existing plant discharge pipeline. This will include a tunnel crossing of Alameda Creek.

Lenihan Dam Outlet Modifications

Los Gatos, CA

The Santa Clara Valley Water District's Outlet Modification Project replaced an aging outlet pipe under Lenihan Dam. The modified outlet consists of a 54 inch concrete lined steel pipe located inside of an approximately 2,000 foot long maintenance tunnel that runs through the eastern abutment of Lenihan Dam. The

project also included a sloping, multi-port intake structure and a shaft located in Lexington Reservoir and an outlet structure located adjacent to Los Gatos Creek.

With a total project cost of approximately \$50 million, the Lenihan Dam Outlet Modifications Project received the Project of the Year award in the "Large Projects" category from the San Francisco Section of the American Society of Civil Engineers. The project was completed safely, under budget and on schedule.

Sunset Reservoir North Basin Seismic Retrofit

San Francisco, CA

The Sunset Reservoir provides 60% of the clean water supply for the City of San Francisco, and is critical in case of major fire or earthquake. The seismic upgrade project work included strengthening the reservoir by the construction of six new moment frames, 11 stainless steel brace frames assemblies, 29 CIDH piers (ranging from 40 to 80 feet deep) connecting to 29 grade beams around the reservoir and 29 shearwalls and struts inside the reservoir. The contract scope also included pouring a 7 inch slab on more than 300,000 square feet of the reservoir floor.

EDUCATION

At ISI, we take pride in our role of providing expert inspection services in support of continued improvement and growth in the Bay Area's Education infrastructure. ISI's special inspection services are provided in strict accordance with CBC Title 24 and our materials testing is performed in our DSA-accredited laboratory.

City College of San Francisco Wellness Center

San Francisco, CA

City College's Wellness Center creates a first-ever front door for the campus on busy Ocean Avenue, integrating cleanly into the urban fabric. The building's LEED®-equivalent design fits 156,000 square feet of program space into a very small footprint utilizing clever vertical stacking. The new Community Wellness Center houses physical education, martial arts, dance, conditioning, team sports, and the college's first aquatics center.



The new Wellness Center was "inspection intensive" because of the numerous types of materials employed

A healthy indoor environment results from abundant natural lighting and clean central air. Generous windows show off the life of the building, integrating indoors and outdoors, and supporting a culture of health and wellness for the whole community.

Chinatown/Northbeach Campus, City College of San Francisco

San Francisco, CA

The new CCSF campus, which is currently under construction, on three lots within the City Parcel bound by Kearny Street to the west and Washington Street to the south and Columbus Avenue to north and east, will consist of two structures; a 14-story tower over a single basement level (Main Building) and a

4-story building over a single basement level (Annex Building).



New campus facility helps CCSF reach more students

Chabot Elementary School, Oakland Unified School District

Oakland, CA

Nestled between picturesque homes and a rolling landscape of oaks and grasses, Chabot Elementary School had nearly doubled in student size over the last 10 years. The strategic additions and remodeling to repurpose buildings have elevated the existing campus into a beautiful addition to the Rockridge area of Oakland. The project includes the design and construction of a two-story classroom building with 12 K-2nd grade classrooms; a multi-purpose building that serves as an auditorium/cafeteria space, repurposing the existing auditorium as a library; new kitchen and restrooms; two altered buildings; and six relocated portable buildings. The District and school have a strong commitment to the inclusion of sustainable materials to meet Collaborative for High Performance Schools (CHPS) criteria and to provide a contextual design that reflected the unique style of the existing school and the neighborhood homes. The school is designed to meet CHPS standards.

Christopher High School, Gilroy Unified School District

Gilroy, CA



Christopher High School was designed as a collaboration between educators and the community. ISI works to make sure facilities are built to standards making them safe for students.

The school was designed with input from a diverse group of educators and community members. BCA Architects, located in Fremont, collaborated on the design with a User Group committee, comprised of staff from Gilroy High School, and a community Steering Committee. The City of Gilroy provided \$4.3 million for an aquatic center, which will be built on site in Phase II. Also negotiated was the after-hours joint use of a practice gym adding an additional \$4 million to the project. All joint-use spaces are designed with separate secure after-hours entrances for community usage.

The School District, working closely with BCA Architects and the teachers, was successful in securing \$6 million in innovative Career Technical Grants to re-envision the Arts programming, integrating academics with technical education. The school also received nearly \$600,000 in High Performance Schools grants from the Office of Public School Construction for its sustainable design. The design optimizes natural daylight through ample windows and allows natural ventilation, with an energy efficient mechanical system.

By constructing a two-story campus that occupies less area, sweeping natural view

corridors of the countryside and foothills were protected. A fan shaped organizational layout improves site and drop-off circulation, creates a secure campus, and allows for spacious outdoor learning environments around a central quadrangle. Phase I of the new 1,800-student school, for 900 students, opened for the Fall 2009 school year.

High quality, long lasting materials, as well as classical design elements such as natural stone and ornate entry facades, are used to reflect a collegiate and timeless architecture.

Bessie Carmichael Middle School and Filipino Education Center, San Francisco Unified School District

San Francisco, CA

An urban school site for more than a century, this 60 child preschool was converted into a middle school for 230 students in response to community outreach and feedback. The four story campus incorporates a range of design responses to program, site and context that support the school district's mission while also respectfully meeting the needs of middle school students.

On the ground level existing and new courtyards, play yards and breezeways are interlaced around a simple rectangular classroom volume, punctuated by large redwood bench loungers and landscaping. Moving up through the building, redwood railed stairs gesture like gangways up to the second floor breezeway; its deep canopy lifts eastward, greeting the cityscape. South-east facing, these deep canopies provide shade and rain protection while creating outdoor learning and cafeteria seating. Benches line the walls inside and out and are scattered throughout the site to provide the students time to study or relax and socialize with peers. This building

completed the LEED project checklist certifying it for eligibility but, in lieu of using funds for certification, new furniture was purchased for the building.

Center for the Arts, Castro Valley Unified School District

Castro Valley, CA

The 516 seat Center for the Arts features a proscenium stage, high-tech lighting, and a world-class sound system, created by Tony award-winning sound designer Elton Halley and Meyer Sound. The Center also includes a large exhibition space, also utilized as a recital hall, conference center and art gallery; classroom and rehearsal space; a state-of-the-art control room, three grand pianos, an electronic marquee, box office, dressing rooms, and storage areas.

MLK Middle School Dining Commons, Berkeley Unified School District

Berkeley, CA

With a capacity of 500 students in two dining halls and an open kitchen, the goal was to create a facility that embraces sustainability and green building design.



The dining commons opened its doors to students in November of 2008

The new dining commons maximizes the use of natural lighting and ventilation to conserve energy. Durable, low maintenance materials are used throughout. Wood was supplied from certified and sustainable-managed forests. The used of recycled content in all materials was

maximized. The thermal mass of the concrete floors was used to retain and radiate heat back into the building maximizing energy efficiency coupled with energy efficient wall design and roof assemblies. Integrated building controls for mechanical, security and fire, and energy efficient lighting design as well as occupancy light sensors are some of the innovative environmental features being used. Low-VOC materials, paints, and adhesives are specified throughout the building. The exposed wood ceiling at the dining rooms and louvered roof monitors with fresh air intake at the floor level will provide passive natural ventilation without the need for ducts and fans. The kitchen of the New Dining Commons is designed around four cooking suites capable of preparing all of the food for the 900 students at King.

Carlmont High School, Sequoia Union High School District

Belmont, CA

As District Architect, DES has worked extensively on the Sequoia Union High School District's four high school campuses Carlmont, Menlo Atherton, Sequoia, and Woodside. Project types include libraries, performing arts centers, sports complexes, aquatic facilities, athletic fields, kitchens, administration buildings, classrooms, multi-use space, and science and technology buildings. Renovations include historic Carrington Hall on the Sequoia High School campus.

Transportation Technology Complex, College of Marin

Kentfield, CA

The transformation of two auto shop buildings into a Transportation Technology Complex is a program at the heart of campus-wide commitment to Workforce Education. Building interiors have been reconfigured to support the innovative educational program, with all

new equipment and building systems. A new addition links the two existing structures, provides office and student spaces and acts as a new entrance. Committed to principals of sustainability, the design team reused most of the existing building and incorporated new green features throughout, including solar hot water panels and clerestory windows for daylight and ventilation.

Dorraine Zief Law Library, University of San Francisco

San Francisco, CA

Seventy-foot deep-drilled piers secure the foundation of this four-level steel-frame structure. Meanwhile, cover plates, HSB's, S.C., and reduced beam section to instill critical seismic fortification in the structure's internal framework. The body of the building incorporates masonry, shotcrete, cast-in-place concrete, and metal deck fill. Finally, precast panels form the library's exterior. In accordance with the San Francisco Building Code's rigorous regulations on structural steel and welding, ISI performed continuous visual and ultrasonic (UT) testing during construction.

Hastings Law School Library Renovation, University of California

San Francisco, CA



Circulation desk in the newly renovated Hastings Law School Library

The existing library, burdened with squat ceilings, limited daylight and disorganized wayfinding, lacked energy, imagination and interaction. Promoting a sense of community and pride, the renovation supports visual connectivity, revives vitality and heightens operational efficiency. Thoughtful use of color invigorates collaboration and organizes spatial relationships. Flexible spaces accommodate large and small gatherings of students, faculty and staff. Housed within the urban fabric of the civic community, the library has become a social hub for camaraderie and enhances the student experience.

Lowell High School Modernization and New Academic Building, San Francisco Unified School District

San Francisco, CA

This school project included the modernization of existing structures and the addition of a new academic building both under same DSA application number. The new building is structural steel framed where fabrication took place at 3 different shops. Building materials included reinforced concrete, structural steel, high-strength bolting, expansion anchors and grouted bolts/dowels. There were also some shotcreted infills on existing structures. Safety was a major issue since work was going on while students were in attendance.

Mt. Zion Cancer Research Facility, University of California, San Francisco

San Francisco, CA

An official NCI Cancer Center housing research laboratories and animal care facilities, this compelling new building has interiors drenched with daylight through its windowed street frontages and courtyard. Its sleek, contemporary visage expressive of technology belies human-scaled and comfortable interiors.

The first-floor public areas, like the fourth-floor labs, are set back from the street, creating visual relief at the sidewalk and designed to minimize the scale of the structure in a mixed-use neighborhood. Within the building, two main cancer research volumes are connected by shared circulation and support spaces.

Reed Elementary School Kindergarten Additions, Reed Union School District

Tiburon, CA

The learning environment of Reed Elementary School has been greatly enhanced by the kindergarten additions that now allow full day kindergarten, a new art classroom, a fresh music room, an invigorating 'nautical theme' library and a special learning center. The learning environment that is now in place, between new and modernized facilities, is much more flexible, diverse and representative of the energetic aspirations of staff and students. The decision to invest in highly flexible, energy efficient and functional spaces will serve this community for many generations to come.

COMMERCIAL

ISI has a substantial history of involvement in commercial construction projects across the Bay Area, including high-rise buildings, office facilities, historical structures and commercial properties. ISI is a member of the California Counsel of Testing and Inspection Agencies (CCTIA) and is recognized as a Special Inspection Agency by the Bay Area Special Inspection Joint Review Committee.

1 Kearny/710 Market Streets

San Francisco, CA

This project is the construction of a new 11 story 60,000 square foot addition to an existing 12 story 64,000 square foot historical 1902 building.

The addition was a structural steel frame structure that is structurally connected to the adjacent historic building so that the complex will function as one building. The site is within the Kearny-Mason-Sutter Conservation District.



1 Kearny/710 Market Street Building

The existing building consisted of concrete slabs and a structural steel frame making it a challenge to combine the new structure with the existing steel and concrete.

The Infinity

300 Spear Street, San Francisco, CA

The Infinity is a luxury residential complex and has four buildings, 8-stories, 10-stories, 37-stories and the other 42-stories, which house 654 residential units. ISI provided full-time inspections and materials testing for the basement excavation, underpinning, reinforced concrete, post-tensioned slabs, structural steel welding, anchor proof load testing, and fire-proofing.

The five-level deep excavation was in bay mud and consisted of a shotcreted soil nail wall system and reinforced concrete slabs and columns. The superstructure combines reinforced concrete, post-tensioned decks, with a core wall system in each building which provide shear.



At 1.4 million square feet, The Infinity luxury high-rise project kept ISI inspectors busy.

AboveNet Communications

160 Harrison Street, San Francisco, CA

Following our initial structural investigations and report, ISI was awarded the special inspection/testing contract for AboveNet Communications.

This \$100 million fast paced project was to be completed in about 8 months. Services included inspection and testing for concrete, shotcrete, drilled-in concrete anchors, roof top structural steel, installation of new friction pendulum base isolation system (seismic), and

ten generators for emergency power. The structural steel rooftop framing was fabricated in double shifts at PDM's plant in Eloy, Arizona. The fast track schedule featured around-the-clock construction including Saturday's. As many as four on-site inspectors were assigned to perform special inspections and tests on this seismic retrofit remodel of a concrete building, four levels above street with one basement level, which was originally built circa 1943. ISI's close proximity to the jobsite allowed its inspectors and staff to make regular jobsite visits and keep close communication with the Contractor, Architect, and Structural Engineer.

Arterra Building

300 Berry Street (Mission Bay N4 P1)

San Francisco, CA

Arterra is planned to be the City's first LEED Certified "Green High-rise Community". This project consists of three structures ranging from six to 16 stories, containing one and two-bedroom residences and townhomes with 260 parking spaces under a landscaped podium. Structural system is cast in place concrete with PT slabs. ISI's scope of work also included welding inspection of 700 piles.

Port of San Francisco Ferry Building Retrofit

San Francisco, CA

The retrofit of this historic structure started in early 1997. The building is occupied and so much of the construction work has been during the night hours and on Saturdays. Several areas were damaged by the Loma Prieta earthquake. Renovation required the preservation of historical structural parts, which were integrated with new construction. Vintage steel was analyzed for weldability to new steel. Some cast iron structures were located but no welding was performed onto cast iron. The major strengthening was to add

heavily reinforced shotcrete shear walls to the structure.



The Historic Ferry Building in need of renovation after the Loma Prieta earthquake

One Hawthorne LLC

San Francisco, CA

One Hawthorne is a 24-story, 332,585 square foot, 165-unit condominium building with three below-grade levels of parking. The superstructure consists of a reinforced concrete mat foundation, columns and walls, and a post-tension slab system from level 1 to 20. The building is topped off with two structural steel levels.

NADEV – Transcontinental: State-of-the-Art Printing Facility for the San Francisco Chronicle

Fremont, CA

ISI performed special inspections on this 338,000 square foot state-of-the-art printing facility that started printing the San Francisco Chronicle as of July 6, 2009. The structural steel superstructure rests on a shallow but massive concrete foundation. Inspections were

performed for the entire structure including all of the mainly European suppliers of the precision printing machinery.

The Museum of the African Diaspora

125 3rd Street, San Francisco, CA

ISI performed an extensive structural and welding inspection of the Museum of the African Diaspora.



ISI provided extensive structural and welding inspection for this museum of culture, history and art

MoAD is an international museum, unique in the world, poised to become one of the world's pre-eminent cultural institutions. It occupies the first three floors of the new, 40-story St. Regis Hotel, adjacent to the Moscone Convention Center and the San Francisco Museum of Modern Art.

San Francisco Public Utility Commission Sustainable Headquarters

San Francisco, CA

The new administration building is a 13-story, 277,000 square foot building with one basement level. The superstructure is reinforced concrete with vertical post-tensioned core walls and post-tension slab system. It has two levels of structural steel on top and a 15 story structural steel wind turbine tower to generate electricity. The concrete for the structure was designed to reflect the

sunlight into the building to reduce the use of electricity.



This 13-story office building features many Green Building Features, uses 32% less energy and 60% less water

Sony Metreon Building

4th and Mission, San Francisco, CA

ISI provided Quality Assurance special inspections per SFBC for this unique project. The various tenant improvements included venues whose structures featured themed areas including "Where the Wild Things Are," "The Way Things Work," SONY Style," "Taste of San Francisco," and Discovery Channel Store. ISI's responsive project identification and coordination system helped to mitigate minor difficulties between several contractors and owners.



ISI provided quality assurance special inspections for this state-of-the-art entertainment and shopping complex



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