Project Location

- Downtown Community Area
- Council Districts 3 and 8
Project Scope

- Installation of new directional curb ramps with detectable warning tiles to replace non-compliant corners
  - 54 intersections
  - 161 curb ramps
- Demolition and removal of existing curb and gutter, non-compliant ramps, and sidewalks
- Installation/replacement of traffic signal push button poles as they relate to installation of directional curb ramps and continental crosswalks
  - 46 new pedestrian push buttons
  - 15 push button upgrades
  - 53 new continental crosswalks
Project Objectives

• Walkable communities
  • Create safe and comfortable pedestrian environment
  • Create a complete, functional, and interconnected pedestrian network accessible to pedestrians of all abilities
  • Achieve greater walkability through pedestrian-friendly street designs

• Streets and Freeway Systems
  • Keep well-maintained streets
  • Create safe and efficient street design that minimizes environmental and neighborhood impacts
## Project Schedule

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Start Date</th>
<th>End Date</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>December 2020</td>
<td>November 2021</td>
<td>11 months</td>
</tr>
<tr>
<td>Bid/Award</td>
<td>December 2021</td>
<td>June 2022</td>
<td>6 months</td>
</tr>
<tr>
<td>Construction</td>
<td>August 2022</td>
<td>April 2023</td>
<td>9 months</td>
</tr>
</tbody>
</table>

**Downtown Holiday Moratorium**
Thanksgiving Day to New Years Day
**Construction Cost**

- Construction Contract: $1.5 million
- Contractor: LC Paving & Sealing, Inc.

<table>
<thead>
<tr>
<th>Curb Ramp Costs per Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>$4,435.84</td>
</tr>
<tr>
<td>Type B</td>
<td>$3,518.81</td>
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<tr>
<td>Type C1</td>
<td>$5,879.60</td>
</tr>
<tr>
<td>Blended Transition</td>
<td>$7,616.95</td>
</tr>
<tr>
<td>Curb Ramps Above Basements</td>
<td>$6,254.53 - $8,064.53</td>
</tr>
<tr>
<td>DWT Retrofit</td>
<td>$522.78</td>
</tr>
</tbody>
</table>
Challenges

Constraints

- Limited ROW
- Existing obstructions
  - Pullboxes
  - Vaults
  - Traffic signals
  - Streetlights
  - Fire hydrants
  - Retaining walls
  - Stormwater inlets
  - Gate valves
- Existing steep slopes
- Drainage
- Sight Distance
- Curb ramps above basements
Examples
Market & 2nd

Proposed Design

CONSTRUCTION NOTES

1. CONSTRUCT TYPE 4 Curb Ramp per SDG-33, SDG-104 and Detail 1.
2. Construction Drawings per the San Diego Street Design Manual, Section 6.02.
3. Proprietary Street Name Location Patterns on present.
4. Proposed utilities per existing utility location patterns.
5. Proposed traffic signal pole in place.
6. Protect existing utility box in place, adjust to grade.
7. Protect existing utility box in place.
8. Protect existing fire hydrant in place.
9. Protect existing fire hydrant in place.
10. Protect existing proposed UP of gutter, AC backfill.

sandiego.gov
Examples

Columbia & Ivy (Before)
Examples

Columbia & Ivy
(Proposed Design)
Examples

Columbia & Ivy
(Proposed Design)
Examples

Harbor & 1st

Proposed Design
Curb Ramps Above Basements

- Ensure curb ramps can be constructed without effecting the structural integrity and historic character of the existing building
- Demolition work to be performed with hand tools
  - Jack Hammering is prohibited
  - Concrete surface to be slowly chipped
- Depth of saw cut limited to 2 inches each pass
- Special concrete mixture
  - High strength concrete (4,000 psi)
- DWT retrofit
  - Demolition area limited to 6 inches beyond perimeter of new DWT footprint
  - Edges of new DWT to be flushed, sealed and anchored
Curb Ramps Above Basements
Questions?

Thank You!