Engineering & Capital Projects Department

Curb Ramp Improvement Group 1701 (B-17114)

Presented By:
Aveen Saleh, Associate Engineer- Civil

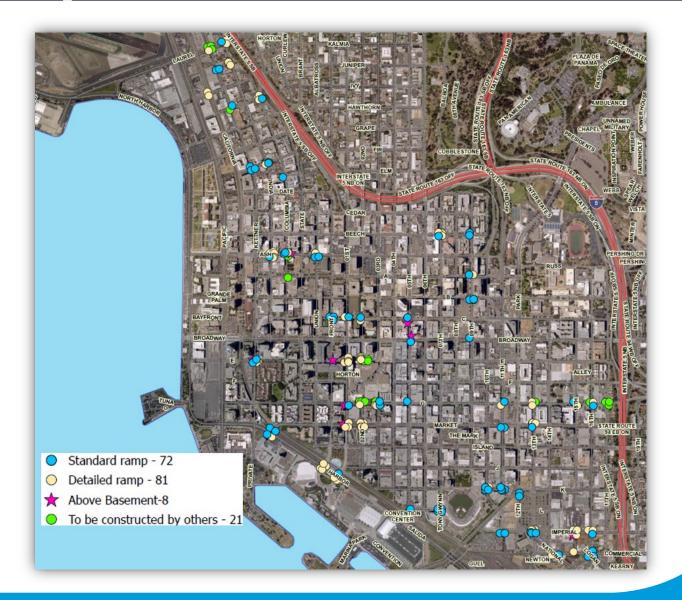
Accessibility Advisory Board April 2022





Project Location

- Downtown Community Area
- Council Districts 3 and 8





Project Scope

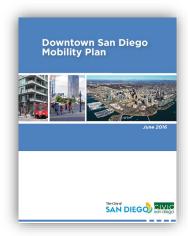
- Installation of new directional curb ramps with detectable warning tiles to replace non-compliant corners
 - 54 intersections
 - 161 curb ramps
- Demolition and removal of existing curb and gutter, noncompliant ramps, and sidewalks
- Installation/replacement of traffic signal push button poles as they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

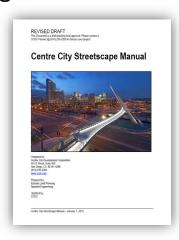


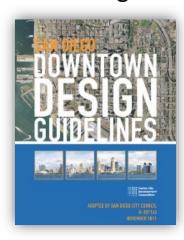


Project Objectives

- 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





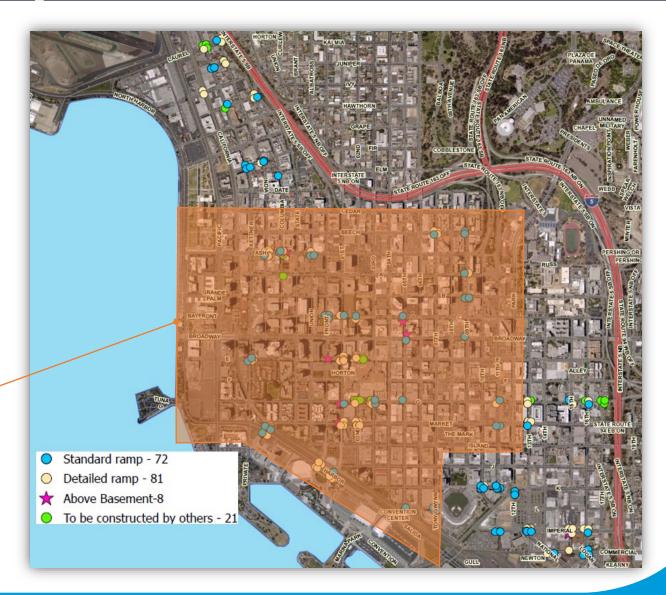




Project Schedule

Schedule				
Project Phase	Start Date	End Date	Duration	
Design	December 2020	November 2021	11 months	
Bid/Award	December 2021	June 2022	6 months	
Construction	August 2022	April 2023	9 months	

Downtown Holiday MoratoriumThanksgiving Day to New Years Day



Construction Cost

• Construction Contract: \$1.5 million

Contractor: LC Paving & Sealing, Inc.

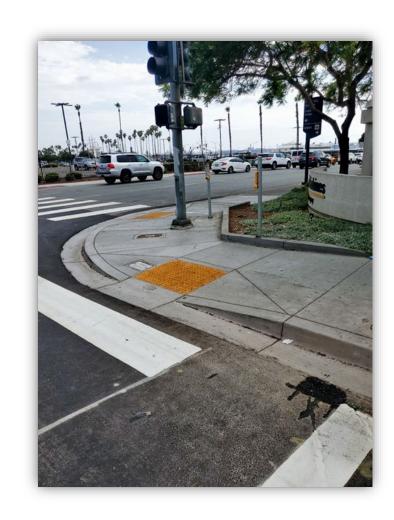
Curb Ramp Costs per Type			
Type A	\$4,435.84		
Type B	\$3,518.81		
Type C1	\$5,879.60		
Blended Transition	\$7,616.95		
Curb Ramps Above Basements	\$6,254.53 - \$8,064.53		
DWT Retrofit	\$522.78		

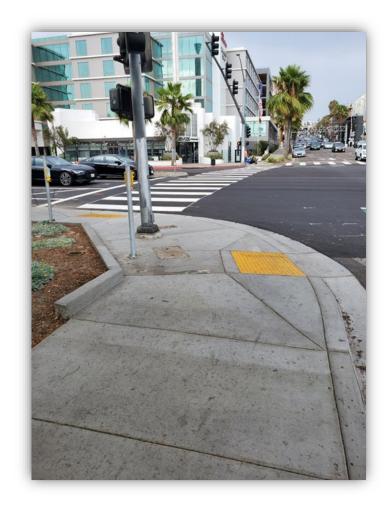


Challenges

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





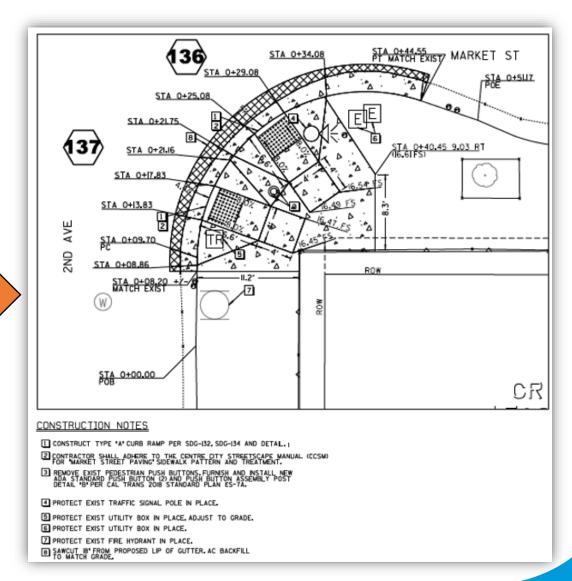


Examples

Market & 2nd



Proposed Design





Examples

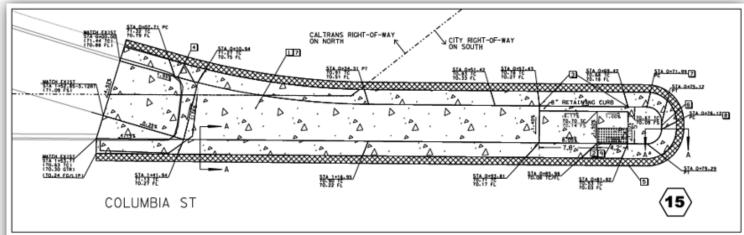
Columbia & Ivy (Before)





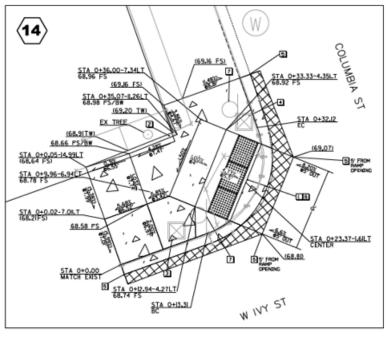
Examples

Columbia & Ivy (Proposed Design)



CONSTRUCTION NOTES

- DECONSTRUCT CONTIGUOUS MEDICAN SIDEWALK PER CITY OF SAN DIEGO STANDARD DRAWING SDG-155 AND DETAIL AS SHOWN ON PLAN.
- INSTALL TYPE C1 RAMP SINGLE RAMP RUN HORTH RETAINING CURB SOUTH PER SAN DIEGO STANDARO DRAWING SDG-135. INSTALL 4'X2' DWT PER
- CONSTRUCT 8' WIDE RETAINING CURB AND INSTALL PROTECTIVE RAILING TYPE A PER SAN DIEGO STANDARD DRAWING SOG-140 BETWEEN STATION L[M[TS 0+57.43 AND 0+69.42
- 4 CONSTRUCT TYPE H CURB & GUTTER PER CITY OF SAN DIEGO STANDARD DRAWINGS SDG-151.
- SAWCUT 18" FROM PROPOSED LIP OF GUTTER. AC PATCH TO MATCH GRADE.
- 6 PAINT MEDIAN NOSE YELLOW.
- BEGIN TRANSITION OF GUTTER PAN TO MATCH EXIST CROSS SECTION SLOPE OF ROADWAY PER SECTION A-A THIS SHEET.
- END TRANSITION OF GUTTER PAN TO MATCH EXIST CROSS SECTION SLOPE OF ROADWAY
- PER SECTION A-A THIS SHEET.
- G CONTRACTOR SHALL MATCH EXIST COLOR. PATTERN AND TEXTURE FOR REPLACED OR DISTURBED SCHEWALK PANELS.



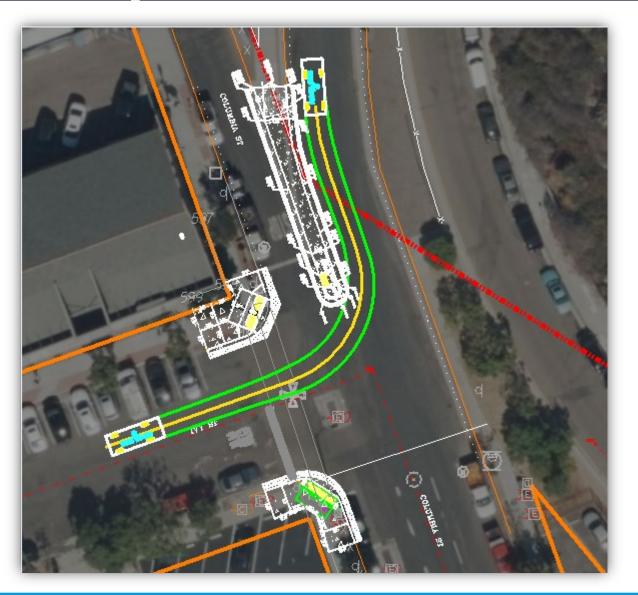
CONSTRUCTION NOTES

- CONSTRUCT TYPE 'A' CURB RAMP PER SDG-I32 WITH 12' WIDE RAMP OPENING AS SHOWN IN DETAIL, AND CALTRANS STANDARD DRAWNGS FOR CURB RAMPS IN CALTRANS RIGHT-OF-WAY. ENSURE THE FACE AND BACK OF CURB SHALL BE A STRIGHT EDGE ACROSS THE RAMP OPENING. CONTRACTOR TO COORDINATE WITH BUILDING PROPERTY OWNER TO KEP ADJACENT BUILDING ENTRANCE ACCESSIBLE.
- 2 CONSTRUCT 6 WIDE RETAINING CURB. PROTECT ADJACENT LANDSCAPE AND BUILDING IN PLACE.
- RELOCATE EXISTING LANDSCAPE OUT OF NEW RAMP FLARE REPLACE EXISTING SIGN POST PER SOM-104. SALVAGE EXISTING SIGN(S) AND REINSTALL ON NEW POST.
- RELOCATE EXISTING TRASH RECEPTACLE OUT OF NEW RAMP FLARE.
- 5 SAWCUT 18" FROM PROPOSED LIP OF GUTTER UNLESS SHOWN OTHERWISE AC PATCH TO MATCH GRADE.
- 6 CONTRACTOR SHALL MATCH EXIST COLOR, PATTERN AND TEXTURE FOR REPLACED OR DISTURBED
- PEPLACE EXISTING SIGN POST PER SDM-104. SALVAGE EXISTING SIGN(S) AND REINSTALL ON NEW SIGN POST.



Examples

Columbia & Ivy (Proposed Design)



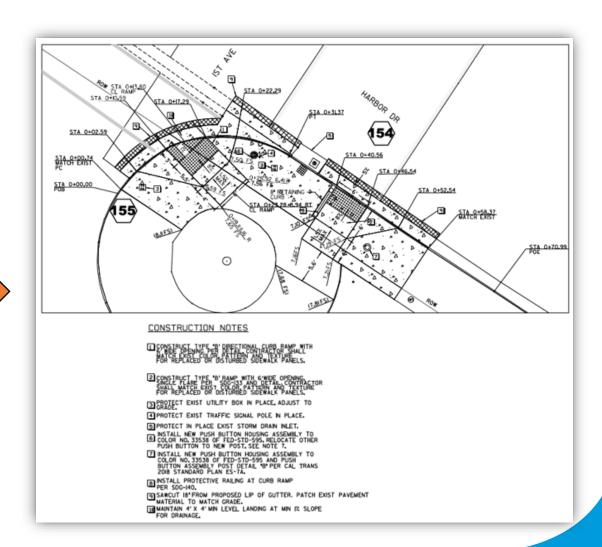


Examples

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!