AGENDA
Bicycle and Pedestrian Advisory Committee Meeting
Wednesday, February 13, 2019 6:00 p.m.
Permit Conference Room
1950 Parkside Drive

AGENDIZED ITEMS – The public is entitled to address the Committee on items appearing on the agenda before or during the Committee’s consideration of that item. Each speaker will be limited to approximately three minutes.

1. ROLL CALL

2. PUBLIC COMMENT PERIOD

3. APPROVAL OF DECEMBER 12, 2018 ANNOTATED MINUTES

4. REPORTS FOR ACTION
   - Considering Cambridge Safe Route to School Improvements Project, Project No, 2456
     Presented by Mark Migliore, Associate Civil Engineer
   - Considering Citywide Pothole/Base Repair and Arterial/Collector Maintenance projects
     (Project Nos. 2453 and 2458) Presented by Ali Hatefi, Associate Civil Engineer

5. ADJOURNMENT

ADA NOTICE AND HEARING IMPAIRED PROVISIONS
In accordance with the Americans with Disabilities Act and California Law, it is the policy of the City of Concord to offer its public programs, services and meetings in a manner that is readily accessible to everyone, including those with disabilities. If you are disabled and require a copy of a public hearing notice, or an agenda and/or agenda packet in an appropriate alternative format; or if you require other accommodation, please contact the ADA Coordinator at (925) 671-3031, at least five days in advance of the hearing. Advance notification within this guideline will enable the City to make reasonable arrangements to ensure accessibility.

Distribution: Kevin Marstall, City Engineer
1. ROLL CALL
   Members Present: Ana Villalobos, Chair, Sarah Allen, Vice Chair, Michelle Hernandez, Jack Grant, and David Pitman

   Staff Present: Kevin Marstall, Abhishek Parikh, Bernard Enrile, Ali Hatefi, and ZeeLaura Page

2. PUBLIC COMMENT PERIOD

3. APPROVAL OF OCTOBER 10, 2018 ANNOTATED MINUTES

   ACTION: Approved 5-0

4. REPORT FOR ACTION

   a) TDA Grant Cycle 2019 Application Presented by Ali Hatefi, Associate Civil Engineer

   Recommend in favor of the West Concord/Iron Horse Trail Connection Project and TDA 3 Grant application to provide high visibility crosswalks with dedicated path for pedestrians and bicycles as indicated by colored markings, flashing beacons,
signage, pavement markings, and new curb ramp that is American with Disability Act compliant.

ACTION: Approved 5-0

5. ADJOURNMENT 6:34 PM

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Distribution: Kevin Marstall, City Engineer
Report in Brief
The Citywide Pothole/Base Repair and Arterial/Collector Maintenance projects (Project Nos. 2453/2458) will consist on performing pavement pothole repairs and preventative maintenance on various arterial and collector streets in Concord. Slurry seal will be preferred preventative maintenance treatment in order to extend the service life of streets that are in good condition and not in need of pavement rehabilitation or reconstruction. The project is funded by the State Gas Tax Roadway Maintenance and Rehabilitation Account (Senate Bill SB-1) and Measure Q Project Funds.

Staff has expedited the design timeline of the project to have final bid documents ready for construction bid by the end of February when the market is more competitive. Staff is presenting the project plans to the Bicycle and Pedestrian Advisory Committee regarding the inclusion of proposed bicycle and pedestrian improvements, such as Class III Bike Routes marking and signage, and high visibility crosswalk, in conformance to the City’s Bicycle, Pedestrian, and Safe Routes to Transit Plan, adopted in September 2016.
Project Background
On April 24, 2018, the City Council approved the proposed Five-Year Pavement Expenditure plan, which included various pavement maintenance, pothole repairs, and pavement rehabilitation and reconstruction projects at various locations.

City Council adopted the Fiscal Year 2018-2020 Biennial Capital Budget on May 8, 2018, which included appropriations in Fiscal Year 2018-2019 of $122,000 and Fiscal Year 2019-2020 of $2,630,000 for the Citywide Pothole/Base Repair (Project No. 2453) and Citywide Arterial/Collector Maintenance (Project No. 2458). Funds are appropriated for design, construction, and management of Project Nos. 2453 and 2458.

On September 25, 2018, City Council approved the Agreement for Professional Services with Pavement Engineering Inc. to provide design services for Project Nos. 2453 and 2458. Design for Project Nos. 2453 and 2458 are being performed under the same design contract to save time in administering fewer contracts. Staff will also consider combining Project Nos. 2453 and 2458 in a single construction contract due to similar scope of work and to attract contractors who prefer to bid in larger projects.

Project Description
The Citywide Pothole/Base Repair and Arterial/Collector Maintenance (Project Nos. 2453/2458) projects are included in the Five-Year pavement expenditure plan approved on April 24, 2018 and 2 year Capital Budget adopted on May 8, 2018. The scope of work for these projects include:

- Citywide Pothole & Base Repair Project FY 2018-20 (Project No. 2453) will focus on pavement pothole and base repairs on Ygnacio Valley Road (Walnut Creek City limits to Alberta Way) and Bonifacio Street (Concord Boulevard to Port Chicago Highway); and

- Citywide Arterial and Collector Maintenance Project (Project No. 2458) will focus on preventative maintenance on up to 10 miles of arterial and collector streets by applying a slurry seal treatment. Project location will be determined at award of construction contract.

The goal of both projects is to maintain and extend the service life of the City’s roadways and pavement condition while they still in good condition. Streets that do not get maintained will deteriorate faster and would be in need of more costly repairs and rehabilitation in the future.

Discussion
Design for the Citywide Pothole/Base Repair and Arterial/Collector Maintenance (Project Nos. 2453 and 2458) began in October 2018 and is now 95% complete. Attachment 1 provides location of streets considered to receive slurry seal treatment under Project No. 2458. Locations selected for construction are to be determined at award of construction contract, pending bid prices and funding availability.
While the budget, schedule, and scope of both Project Nos. 2453 and 2458 limits the ability to conduct complete streets studies, Staff was able to include the addition of Class 3 Bike Routes and High Visibility Crosswalks as part of Project No. 2458 since the project involves restoring the roadway striping. The City’s Bicycle, Pedestrian, and Safe Routes to Transit Plan, adopted in September 2016 (Plan) provides recommendations for the following improvements to be implemented:

- **Class 3 Bike Routes added the following locations:**
  - Bonifacio Street (Galindo Street to Port Chicago Highway)
  - Laguna Street (Detroit Avenue to Galindo Street)
  - Landana Drive (Village Road to Mulberry Drive)
  - North Sixth Street (Esperanza Drive to Willow Pass Road)
  - Pine Hollow Road (Classic Way to city limits)

- **High Visibility Crosswalks added the following intersections:**
  - Bonifacio Street/Concord Avenue (east and west)
  - Bonifacio Street/East Street (north and south)
  - Clayton Road/Park Street (west and south)
  - Clayton Road/Oakland Avenue (west, south, and east)
  - Clayton Road/The Alameda (west)
  - Clayton Road/Chestnut Avenue (north and east)
  - Clayton Road/Babel Lane (east)
  - Clayton Road/Bailey Road (west)
  - Clayton Road/Claycord Avenue (west)
  - Concord Boulevard/Farm Bureau Road (north, west, south)
  - Concord Boulevard/Clayton Way (east)
  - Concord Boulevard/Landana Drive (west and north)
  - Concord Boulevard/West Street (south and east)
  - Concord Boulevard/Mendocino Drive (west, south, and east)
  - Concord Boulevard/Denkinger Road (west and east)
  - Concord Boulevard/Thornwood Drive (west and east)
  - Concord Boulevard/Bailey Road (west and east)
  - David Avenue/Oak Grove Road (north)
Farm Bureau Road/Willow Pass Road (north, west, south, east)  
Grant Street/Olivera Road (west)  
Minert Road/Oak Grove Road (south)  
Pacheco Street/Concord Avenue (south)  
Pacheco Street/East Street (north and south)  
Salvio Street/East Street (north, west, south, east)  
Whitman Road/Oak Grove Road (north and east)

Staff evaluated the existing street widths and traffic conditions of the project and recommend the following changes be made from the recommended improvements listed on the Plan:

- **David Avenue (Helix Drive to Oak Grove Road): Existing Bike Route**  
The Plan does not recommend any improvements for David Avenue, which currently has a parking lane and shoulder striping. Staff recommends constructing a 5 ft wide bike lane for the eastbound direction of David Avenue and a shared bike lane on westbound David Avenue.

- **Minert Road (Weaver Lane to Oak Grove Road): Tier2 Complete Streets Study**  
Minert Road is an existing Bike Route and the Plans recommends a complete street study for feasibility of bike lanes through a road diet. Staff evaluated the existing lane widths and recommends narrowing the travel lanes to 10.5 ft wide in order to construct 5 ft wide bike lanes with 2 ft wide buffers for both directions of Minert Road.

- **Salvio Street (East Street to Port Chicago Highway): Tier 1 Class III Shared Lane**  
Salvio Street is an existing Bike Route and the Plans recommends a Class III Shared Lane Marking to be constructed. Salvio Street, between East Street and Port Chicago Highway, is included in the design to receive a slurry seal treatment and is shown on the Plan to have Class 3 Bike Lanes constructed. The City has a Transportation Develop Act Article (TDA) 3 grant funded capital project that will involve the installation of bike facilities on Salvio Street, which will include the section between East Street and Port Chicago Highway, known as the Salvio Street Bikeway Improvements (Project No. 2441). Staff will present the design of Project No. 2441 for input in a future Bicycle and Pedestrian Advisory Committee meeting. While Salvio Street is designed to receive a slurry seal treatment as part of Project No. 2458. The improvements constructed on Salvio Street for Project No. 2458 will not prevent the future bikeway improvements for Project No. 2441.
Streets to be selected for slurry seal treatment will be based on bid prices and funding availability. Streets that are not selected for treatment as part of construction for Project No. 2458 will not receive improvements as shown on the Plan. Improvements for Project Nos. 2453 and 2458 will not preclude nor prevent future compete street studies and construction projects. Attachments 2 and 3 show exhibits from the Plan’s recommended Class 3 Bike Routes and High Visibility Crosswalks to be constructed Citywide. Restoration of existing striping for bike and pedestrian facilities will be included as part of Project No. 2458.

Due to the tight timeline of preparing the project for construction bids, Staff is unable to make major edits and revisions to the design. Staff will accept design input and will determine if any feasible changes can be made within the project budget and schedule.

**Recommended Action**
Review the project plans in Attachment 4 and provide input for Staff to consider on conformity with the City’s Bicycle, Pedestrian, and Safe Routes to Transit Plan.

**Public Contact**
The Bicycle and Pedestrian Advisory Committee Agenda was posted.

**Attachments**
1. Project Location Map
2. Plan – Recommended Bikeway Network
3. Plan – Recommended Walking Spot Improvement
4. Project Plans
LOCATION MAP
Figure 5-4: Recommended Walking Spot Improvements - Downtown
GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL TRAFFIC STRIPING, PAVEMENT MARKINGS AND RED CURB PAINT DAMAGED OR OBLITERATED WITHIN LIMITS OF WORK. TRAFFIC STRIPING, PAVEMENT MARKINGS AND RED CURB PAINT MUST MATCH EXISTING UNLESS OTHERWISE SHOWN ON PLANS OR AS SHOWN DIRECTED BY THE CITY. ALL STRIPING SHALL BE THERMOPLASTIC.

2. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD. LANE LIMITS OF WORK, TRAFFIC STRIPING, PAVEMENT MARKINGS AND RED CURB PAINT MUST MATCH EXISTING UNLESS OTHERWISE SHOWN ON PLANS OR AS SHOWN DIRECTED BY THE CITY. ALL STRIPING SHALL BE THERMOPLASTIC.

3. THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS INGRESS AND EGRESS TO ALL PRIVATE PROPERTY ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION UNLESS OTHERWISE SHOWN.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE SITE OR THE SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXISTING FACILITIES THAT ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO THE EXISTING DRAINAGE FACILITIES FROM THE NEW PAVEMENT AREAS.

6. CONTRACTOR SHALL DISPOSE OF ALL PROJECT WASTE IN A LEGAL MANNER.

7. CONTRACTOR SHALL ENSURE THAT CENTERLINE STRIPING IS SUCH THAT TRAVEL LANE WIDTH BE MAINTAINED AT 11 FEET MIN. UNLESS EXISTING CONDITIONS DECIDE OTHERWISE.

8. EXISTING SIGNAGE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

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NOTES:

1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING

EX, PAVEMENT, GUTTER, LIP OR SPANDREL

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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REMOVE & REPLACE 9" HMA
NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING

EX, PAVEMENT, GUTTER LIP OR SPANDREL

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

BORING LOG

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YGNACIO VALLEY ROAD

MATCHLINE - SEE SHEET 2

MATCHLINE - SEE SHEET 4

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE LOWER LEFT

MONTECITO DRIVE

COWELL ROAD

YGNACIO VALLEY ROAD

-56' NO CITY LIMIT TO 985' E/O MONTECITO DRIVE

REPLACE 9" HMA

REMOVE & REPLACE 9" HMA
NOTES:
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TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING
EX, PAVEMENT, GUTTER LIP OR SPANDREL

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

REPLACE 6" PAVEMENT

REMOVE & REPLACE 9" HMA
NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

SEE NOTE 1

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING

EX, PAVEMENT, GUTTER LIP OR SPANDREL

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

C21
8-1/2"
YES

C22
8-3/4"
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C23
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C24
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C25
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C26
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C27
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C28
12-1/2"
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NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING
EX, PAVEMENT, GUTTER LIP OR SPANDREL
PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

BID DUE DATE
NOV. 25, 2014 3PM

MATCHLINE - SEE SHEET 7
MATCHLINE - SEE SHEET 5
MATCHLINE - SEE UPPER RIGHT

CITY OF CONCORD
POTHOLE BASE REPAIR & CITYWIDE ARTERIAL/COLLECTOR SLURRY SEAL

MATCHLINE - SEE LOWER LEFT

YGNACIO VALLEY ROAD

BORING LOG
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REPLACE & REPLACE 9" HMA

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

EX, PAVEMENT, GUTTER LIP OR SPANDREL

REPLACE 9" PAVEMENT

RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.
9" R&R HMA
(~4'x10')

9" R&R HMA
(~6'x4')

9" R&R HMA
(~4'x4')

9" R&R HMA
(~8'x6')

9" R&R HMA
(~4'x6')

CONT.

C36

NOTES:

1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING

EX, PAVEMENT, GUTTER LIP OR SPANDREL

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

BID DUE DATE
NOV. 25, 2014 3PM

RC & JRE
180309-02
FEBRUARY 2019
AS SHOWN

CITY OF CONCORD
POTHOLE BASE REPAIR & CITYWIDE ARTERIAL/COLLECTOR SLURRY SEAL

MATCHLINE - SEE SHEET 6

YGNACIO VALLEY ROAD
PINE HOLLOW RD

~500' W/O PINE HOLLOW RD. TO PINE HOLLOW RD.
CONSTRUCTION NOTES:

1. HMA CUTOUT LOCATION SHOWN MUST CUT OUT IN ACCORDANCE WITH LOCAL CODE ENSURING MATERIAL IS RECOMPACTED TO >= 95% R.C. PRIOR TO PLACEMENT OF SURFACE SEAL.

2. INSTALL SHARED LANE MARKINGS PER 2014 MUTCD FIGURE 9C-9. SIGNS SHALL BE MOUNTED ON A SINGLE POST.

3. UTILITIES COVERS LOCATED IN DIGOUT AREAS REQUIRE LOWERING PRIOR TO COLD PLANE & ADJUSTMENT TO FINISH GRADE PRIOR TO PLACEMENT OF SLURRY SEAL.

4. INSTALL W11-1 & R4-11 ROADSIDE SIGNS ADJACENT TO SHARED LANE MARKING PER 2014 MUTCD. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.

BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>No.</th>
<th>Depth</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>C2</td>
<td>12&quot;</td>
<td>NO</td>
</tr>
<tr>
<td>C3</td>
<td>6&quot;</td>
<td>NO</td>
</tr>
<tr>
<td>C4</td>
<td>6&quot;</td>
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</tr>
</tbody>
</table>

NOTES:
- PLACE 3" HMA BASE COURSE & 6" HMA SURFACE COURSE PLACE PAVING FABRIC ON SUBGRADE BEFORE PAVING.
- REMOVE & REPLACE 6" HMA.
- BORING LOG DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN.
CONSTRUCTION NOTES:

1. UTILITY COVERS LOCATED IN DIGOUT AREAS REQUIRE LOWERING PRIOR TO COLD PLANE. MAKE ADJUSTMENT TO FINISH GRADE PRIOR TO PLACEMENT OF SLURRY SEAL.

2. INSTALL 8" X 4" PRECAST CURB ADJACENT TO CURB EDGE. CURB THICKNESS TO BE DETERMINED PRIOR TO CURB INSTALLATION.


BORE LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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<tr>
<th>NO.</th>
<th>AC</th>
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<th>DESCRIPTION</th>
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<td>3</td>
<td>1/2&quot;</td>
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</tr>
<tr>
<td>C10</td>
<td>7</td>
<td>1&quot;</td>
<td>MD</td>
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</tbody>
</table>

NOTES:

REMOVE & REPLACE 6" HMA

PLACE 3" HMA BASE COURSE & 3" HMA SURFACE COURSE

FACE COAT ALL VERTICAL EDGES PRIOR TO FINISHING.

REVIEW NOTE 1.

Pavement Engineering Inc.
You can ride on our reputation

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San Luis Obispo, CA 93401
805.781.2265
CITY OF CONCORD

POTHOLE BASE REPAIR & CITYWIDE ARTERIAL/COLLECTOR SLURRY SEAL

OLIVERA RD. TO ~440' S/O GLENBROOK CT

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET 12

CONSTRUCTION NOTES:

1. NOT USED
2. NOT USED
3. NOT USED
4. INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD STANDARD PLAN S-26

BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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<tr>
<th>No.</th>
<th>Depth</th>
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<tr>
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<tr>
<td>C2</td>
<td>7.1'</td>
<td>N</td>
</tr>
<tr>
<td>C3</td>
<td>9.4'</td>
<td>N</td>
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</table>
CITY OF CONCORD

PORT CHICAGO HIGHWAY

OLIVERA RD. TO ~60' S/O FLOYD LN.

BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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<tr>
<th>No.</th>
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<tbody>
<tr>
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<td>2</td>
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<td>YES</td>
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<tr>
<td>3</td>
<td>7 1/2&quot;</td>
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Pavement Engineering Inc.

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San Luis Obispo, CA 93401
805.781.2265
**BORING LOG**

Depth measured at locations shown on plan.

<table>
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<td>3</td>
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<td>8&quot;</td>
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</table>
NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING

PLACE 6" HMA BASE COURSE & 3" HMA SURFACE COURSE

BID DUE DATE
NOV. 25, 2014 3PM
CONSTRUCTION NOTES:

1. NOT LINED.
2. INSTALL WITH LANE NUMBERS ALIGNED TO SHARED LANE MARKING ALIGNMENTS. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.
4. NOT LINED.

BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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<thead>
<tr>
<th>No.</th>
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<td>C4</td>
<td>4.75&quot;</td>
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</table>
CONSTRUCTION NOTES:
1. Not used.
2. Install W11-1 & R4-11 roadside signs adjacent to shared lane marking per 2014 MUTCD. Signs shall be mounted such that W11-1 is above R4-11. Signs shall be mounted on a single post.
3. Install shared lane markings per 2014 MUTCD Figure 9C-9. Not used.
4. BORING LOG

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<th>NO.</th>
<th>AC</th>
<th>DEPTH</th>
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DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN
CONSTRUCTION NOTES:

1. NOT USED

2. INSTALL 36" X 36" SQUARE GANG DRAIN x 36" DEEP INTO SHALLOW W/ 3" Layer of 2" Graduated Gravel.  DRAIN TO BE PLACED CASING morphology AND THEN DRILLED INTO BASE WITH A NOSE C2B TO A MAXIMUM DEPTH OF 20'.  DRAIN TO BE 40" DEEP.  DRAIN TO BE PLACED 1' FURTHER NEAR THE ROAD OR 4" DEEP.


BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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<tr>
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MATCHLINE - SEE SHEET 16

LIMIT OF WORK @ COP ~500' E/O SALVIO'S ST. TO WILLOW PASS RD.

LIMIT OF WORK @ COP

CONSUELO ROAD

NORTH 6TH STREET

NORTH 6TH STREET

WILLow PASS ROAD
CONSTRUCTION NOTES:

1. NOT USED
2. NOT USED
3. NOT USED
4. INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD STANDARD PLAN S-26

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
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<td>8-1/2&quot;</td>
<td>MD</td>
</tr>
<tr>
<td>C3</td>
<td></td>
<td>4-1/2&quot;</td>
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CONSTRUCTION NOTES:
1. REMOVE & REPLACE 6" HMA

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

BORING NO. | DPT | FEET |
----------- |-----|------|
          |     |      |
           |     |      |
           |     |      |
           |     |      |

NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING

LIMIT OF WORK @ COP ~ 190' E/O COLFAX ST. TO PORT CHICAGO HWY.

INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD STANDARD PLAN S-26
CONSTRUCTION NOTES:

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED
5. INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD STANDARD PLAN S-26

BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
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<th>No.</th>
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REMOVED & REPLACED 6" HMA
**CONSTRUCTION NOTES:**

1. **NOT USED.**
   - **INSTALL W11-1 & R4-11 ROADSIDE SIGNS ADJACENT TO SHARED LANE MARKING PER 2014 MUTCD. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.**
   - **INSTALL SHARED LANE MARKINGS PER 2014 MUTCD FIGURE 9C-9.**
   - **NOT USED.**

2. **NOT USED.**
   - **PLACE TACK OIL & HEAT SURFACE HMA FILL: SHEET MIX; DEPTH VARIES, SEE PLAN FOR LOCATIONS.**
   - **FEATHER @ LIMIT OF FILL (SEE NOTE).**
   - **PLACE TACK OIL & HEAT SURFACE HMA FILL: SHEET MIX; DEPTH VARIES, SEE PLAN FOR LOCATIONS.**
   - **FEATHER @ LIMIT OF FILL (SEE NOTE).**

3. **NOT USED.**
   - **MATCHLINE - SEE ABOVE RIGHT.**
   - **MATCHLINE - SEE SHEET 22.**

4. **NOT USED.**
   - **MATCHLINE - SEE BELOW LEFT.**

---

**BORING LOG**

- **DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN.**

---

**MATCHLINE - SEE BELOW LEFT.**
NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

CONSTRUCTION NOTES:
1. NOT USED.
2. INSTALL W11-1 & R4-11 ROADSIDE SIGNS ADJACENT TO SHARED LANE MARKING PER 2014 MUTCD. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.
3. INSTALL SHARED LANE MARKINGS PER 2014 MUTCD FIGURE 9C-9. NOT USED.

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

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<tr>
<td>C3</td>
<td>6-7/8&quot;</td>
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805.781.2265
CONSTRUCTION NOTES:

1. LIMIT OF WORK @ COP

2. INSTALL W11-1 & R4-11 ROADSIDE SIGNS ADJACENT TO SHARED LANE MARKING PER 2014 MUTCD. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.


BORING LOG

DEPTH MEASUREMENTS SHOWN ON PLAN

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<th>No.</th>
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<th>C6</th>
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<td>5-1/4&quot;</td>
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CRACK SEAL & SLURRY SEAL
TYPE II W/BLACK ROCK, TYP.

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TYPE II W/BLACK ROCK, TYP.

CRACK SEAL & SLURRY SEAL
TYPE II W/BLACK ROCK, TYP.
CONSTRUCTION NOTES:
1. NOT USED
2. NOT USED
3. NOT USED
4. INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD STANDARD PLAN S-26

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
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<tr>
<th>NO.</th>
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<tr>
<td>C1</td>
<td></td>
<td>9&quot;</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td></td>
<td>10-1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>
CONSTRUCTION NOTES:

1. **NOT used.**
   - Material, with CBR = 0, provided some resistance to shared lane markings. Reinstall with new material as shown on plan. If not used, replace old material with new of similar type. Shared lane markings must be installed every 5 ft. Signs shall be mounted on a single post at minimum 8 ft.

2. **NOT used.**
   - Install shared lane markings per 2014 MUTCD Figure 9C-9.

BOURING LOG

**DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN**

| BL | RD (in) | NS | MD
|----|--------|----|----
| 1  | 11-1/2"| ND |    |
| 2  | 10-1/2"| ND |    |
| 3  | 9-1/2" | ND |    |

**NOTES:**

- Compact loosened material at surface. If contractor disturbs more than 1-1/2" of material, subgrade shall be recompacted to 95% R.C.
- Place 2-1/4" HMA base course on 3/8" Paving fabric.
- Remove 4" HMA.
- Matchline - See above right.

**INFORMATION:**

- Path: Z:\SHARED\R DRIVE\ACTIVE PROJECTS\CONCORD, CITY OF\180309\TASK 02 - SLURRY SEAL PROJECT\DRAWINGS\180309_TASK-02_SITE-02_CONCORD BLVD, LANDANA DR.DWG
- Plot Date: 2/4/2019 4:08 PM

**Pavement Engineering Inc.**

You can ride on our reputation

Corporate Office:

3485 Sacramento Drive, Suite A
San Luis Obispo, CA 93401
805.781.2265
CONSTRUCTION NOTES:

1. PAVEMENT CONSTRUCTION ALL WORK REQUIRE COMPACTING MATERIAL TO SUBGRADE GRADE PRIOR TO INCLUSION OF MATERIAL TO LOSS BASE COURSE.

2. INSTALL 21" X 14" REINFORCED CONCRETE CURB TO MINIMIZE CURB JUMPING DURING PAVEMENT APPLICATION.


4. UTILITY COVERS LOCATED IN DUGOUT AREAS REQUIRE LOWERING PRIOR TO COLD PLAN & ADJUSTMENT TO FINISH GRADE PRIOR TO PLACEMENT OF SLURRY SEAL.

5. INSTALL W11-1 & R4-11 ROADSIDE SIGNS ADJACENT TO SHARED LANE MARKING PER 2014 MUTCD. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.


BORE LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>NO.</th>
<th>LOCATION</th>
<th>DEPTH</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2</td>
<td>5'-10&quot;</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>C9</td>
<td>11'-10&quot;</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>C8</td>
<td>12'-10&quot;</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>
CONSTRUCTION NOTES:

1. NOT USED
2. NOT USED
3. NOT USED
4. INSTALL ZEBRA CROSSWALK MARKINGS PER CITY OF CONCORD STANDARD PLANS 018

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>No.</th>
<th>AC</th>
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<tr>
<td>1</td>
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<td>8-1/4&quot;</td>
<td>NO</td>
</tr>
<tr>
<td>2</td>
<td>C2</td>
<td>8-1/4&quot;</td>
<td>NO</td>
</tr>
<tr>
<td>3</td>
<td>C3</td>
<td>8-1/4&quot;</td>
<td>NO</td>
</tr>
</tbody>
</table>
CITY OF CONCORD
CONCORD AVENUE
~765’ E/O BILLINGS RD. TO ~265’ E/O WESTBURY DR.

CONSTRUCTION NOTES:
1. NOT USED
2. NOT USED
3. NOT USED
4. INSTALL ZEBRA CROSSWALK MARKS PER CITY OF CONCORD STANDARD PLAN BK-18

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>Boring</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2</td>
<td>8-1/2&quot;</td>
</tr>
<tr>
<td>C3</td>
<td>8-1/2&quot;</td>
</tr>
<tr>
<td>C7</td>
<td>7-7/8&quot;</td>
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</tbody>
</table>
CONSTRUCTION NOTES:

1. Recompact loosened material at surface. If contractor disturbs more than 1-1/2" of material, subgrade shall be recompacted to 95% R.C.

2. Tack coat all vertical edges prior to paving.

3. Place 6" HMA base course & 3" HMA surface course.

4. Tack coat all vertical edges prior to paving.

5. Remove & replace 9" HMA.

6. Crack seal & slurry seal type II w/black rock, typ.

Boring Log

Depth measured at locations shown on plan.
LIMIT OF WORK @ COP
CRACK SEAL & SLURRY SEAL
TYPE II W/BLACK ROCK, TYP.

MATCHLINE - SEE ABOVE RIGHT
MATCHLINE - SEE SHEET 35

BID DUE DATE
NOV. 25, 2014 3PM

CONSTRUCTION NOTES:
1. NOT USED
2. NOT USED
3. NOT USED
4. INSTALL ZEBRA CROSSWALK MARKINGS PER CITY OF CONCORD STANDARDS/FLUSH OUT

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>NO.</th>
<th>DIA.</th>
<th>MATERIAL</th>
<th>RESULTS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 A</td>
<td>7 3/4&quot;</td>
<td>PAVING FABRIC</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>1 B</td>
<td>9 1/2&quot;</td>
<td>PAVING FABRIC</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>1 C</td>
<td>6 1/2&quot;</td>
<td>PAVING FABRIC</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>
CONSTRUCTION NOTES:

1. Utility covers located in digout areas require lowering prior to cold plane & adjustment to finish grade prior to placement of slurry seal.

2. Not used.

3. Install zebra crosswalk marking per City of Concord standard plan S-26.

BORING LOG

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>Level</th>
<th>Depth</th>
<th>Used</th>
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<td>7&quot;</td>
<td>Yes</td>
</tr>
<tr>
<td>C6</td>
<td>6&quot;</td>
<td>Yes</td>
</tr>
</tbody>
</table>

E.D. PAVEMENT PULLER

PLANT 7" REMOVED COARSE & BASE COURSE

REPLACE 7" HMA

HEIGHTS PRIOR TO PLOWS

NOTE 1:

CITY OF CONCORD

POTHOLE BASE REPAIR & CITYWIDE ARTERIAL/COLLECTOR SLURRY SEAL

PARK ST. TO ~65' E/O SAN CARLOS AVE.

CLAYTON ROAD - 1

MATCHLINE - SEE ABOVE RIGHT

MATCHLINE - SEE SHEET 38

GRAPHIC SCALE

SCALE: 1 INCH = 100 FEET

BID DUE DATE

NOV. 25, 2014 3PM

NOTES:

1. Recompact loosened material at surface. If contractor disturbs more than 1-1/2" of material, subgrade shall be recompacted to 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING EX, PAVEMENT, GUTTER LIP OR SPANDREL

PLACE 4" HMA BASE COURSE & 3" HMA SURFACE COURSE

You can ride on our reputation

Corporate Office:

3485 Sacramento Drive, Suite A
San Luis Obispo, CA 93401
805.781.2265
R&R 7" HMA (~6'x23')
R&R PCC
CURB & GUTTER (29 LF)
R&R 7" HMA (~6'x9')
R&R 7" HMA (~6'x29')
R&R 7" HMA (~6'x15')
CLAYTON ROAD
5TH STREET
BELLA DRIVE
LIMIT OF WORK @ COP

NOTES:
1. RECOMPACT LOOSE MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING
PLACE 4" HMA BASE COURSE & 3" HMA SURFACE COURSE

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>No.</th>
<th>TRB</th>
<th>REMOVED</th>
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<tbody>
<tr>
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<td>C8</td>
<td>6&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>C9</td>
<td>7&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>C10</td>
<td>6-1/2&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>C11</td>
<td>6&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>C12</td>
<td>6&quot;</td>
<td>YES</td>
</tr>
</tbody>
</table>

MATCHLINE - SEE ABOVE RIGHT
MATCHLINE - SEE SHEET 37
MATCHLINE - SEE SHEET 39
MATCHLINE - SEE BELOW LEFT

CLAYTON ROAD
5TH STREET
BELLA DRIVE
6TH STREET
CLAYTON ROAD
COVENTRY ROAD
MARIA AVENUE

REMOVED & REPLACE 7" HMA

BID DUE DATE: NOV. 25, 2014 3PM
**NOTES:**

1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

2. TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING EX, PAVEMENT, GUTTER LIP OR SPANDREL

3. PLACE 4" HMA BASE COURSE & 3" HMA SURFACE COURSE

**BORING LOG**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Material</th>
<th>Notes</th>
</tr>
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<tbody>
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<td>C15</td>
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<td>YES</td>
</tr>
<tr>
<td>C16</td>
<td>2-1/2&quot;</td>
<td>YES</td>
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<tr>
<td>C17</td>
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<td>YES</td>
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<td>C18</td>
<td>8&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>C19</td>
<td>10&quot;</td>
<td>YES</td>
</tr>
</tbody>
</table>

**MATCHLINE:**

- 2460 E/MARIA AVE TO 1380 ROSLYN DR
- CLAYTON ROAD - 1
- CHESTNUT AVENUE
- GROVE WAY
- ROSELIN DRIVE
- FABIAN WAY
- THE ALAMEDA
- DAVIS AVENUE
- ROSELIN DRIVE
- THE ALAMEDA

**Scale:**

1 INCH = 90 FEET
NOTES:
1. RECOMPACT LOOSENED MATERIAL AT SURFACE. IF CONTRACTOR DISTURBS MORE THAN 1-1/2" OF MATERIAL, SUBGRADE SHALL BE RECOMPACTED TO 95% R.C.

TACK COAT ALL VERTICAL EDGES PRIOR TO PAVING EX, PAVEMENT, GUTTER LIP OR SPANDREL

PLACE 4" HMA BASE COURSE & 3" HMA SURFACE COURSE

CONSTRUCTION NOTES:
- NOT USED.
- NOT USED.
- INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD'S STANDARD PLANS ON

BORING LOG

<table>
<thead>
<tr>
<th>Depth</th>
<th>Material</th>
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<tbody>
<tr>
<td>1-1/8&quot;</td>
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</tr>
<tr>
<td>1-3/8&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>YES</td>
</tr>
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</table>

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN
CONSTRUCTION NOTES:

- INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORDS STANDARD PLAN S-26

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>No.</th>
<th>Depth</th>
<th>Material</th>
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<tbody>
<tr>
<td>B76</td>
<td>19 1/2&quot;</td>
<td>YES</td>
</tr>
<tr>
<td>C76</td>
<td>19 1/2&quot;</td>
<td>YES</td>
</tr>
</tbody>
</table>
YIELD
BRPM

LIMIT OF WORK @ VALLEY GUTTER

CRACK SEAL & SLURRY SEAL
TYPE II W/BLACK ROCK, TYP.

4
Z

C1
C2

GRAPHIC SCALE
SCALE: 1 INCH = FEET

BID DUE DATE
NOV. 25, 2014 3PM

CONSTRUCTION NOTES:
1) NOT USED
2) PAYPAL
3) NOT USED
4) INSTALL ZEBRA CROSSWALK MARKING PER CITY OF CONCORD'S STANDARD PLAN S-26

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>No.</th>
<th>Depth (in)</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>C2</td>
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<td>YES</td>
</tr>
<tr>
<td>C3</td>
<td>11.50&quot;</td>
<td>YES</td>
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</table>

PATH:
Z:\SHARED\R DRIVE\ACTIVE PROJECTS\CONCORD, CITY OF\180309\TASK 02 - SLURRY SEAL PROJECT\DRAWINGS\180309_TASK-02_SITE-06_OAK GROVE RD, WHITMAN RD, DAVID AVE, MINERT RD.DWG

PLOT DATE:
2/4/2019 11:28 AM

REV
DATE
DESCRIPTION
APP

DRAWN BY:
Pavement Engineering Inc.
You can ride on our reputation
Corporate Office:
3485 Sacramento Drive, Suite A
San Luis Obispo, CA 93401
805.781.2265

CORPORATE OFFICE
Pavement Engineering Inc. (905) 456-7890

CITY OF CONCORD
POTHOLE BASE REPAIR & CITYWIDE ARTERIAL/COLLECTOR SLURRY SEAL

MATCHLINE - SEE LOWER LEFT

MATCHLINE - SEE SHEET 47

MATCHLINE - SEE UPPER RIGHT

CITY OF CONCORD

OAK GROVE RD. TO ~1115' N/O MARKHAM ST.

WHITMAN ROAD

OAK GROVE ROAD

WHITMAN ROAD

MARKHAM STREET

LIMIT OF WORK @ COP

LIMIT OF WORK @ COP

LIMIT OF WORK @ VALLEY GUTTER

LIMIT OF WORK @ VALLEY GUTTER
CONSTRUCTION NOTES:

1. Utility covers located in project area require lowering.

2. W11-1 & R4-11 roadside signs adjacent to shared lane marking per 2014 MUTCD.

3. Install shared lane markings per 2014 MUTCD Figure 9C-9.

NOTES:

1. Recompact loosened material at surface. If contractor disturbs more than 1-1/2" of material, subgrade shall be recompacted to 95% R.C.

2. HMA may be replaced in a single 4" lift if repair is located under an overlay. Place 2-1/4" HMA base course & 1-3/4" HMA surface course.

3. Tack coat all vertical edges prior to paving.

4. Remove & replace PCC.

5. Curb & gutter (21 LF).


7. Crack seal & slurry seal type II with black rock, typ.

8. BID DUE DATE: NOV. 25, 2014 3PM.
CONSTRUCTION NOTES:

1. Utility covers located in digout areas require lowering prior to cold plane & adjustment to finish grade prior to placement of slurry seal.

2. Install W11-1 & R4-11 roadside signs adjacent to shared lane marking per 2014 MUTCD. Signs shall be mounted such that W11-1 is above R4-11. Signs shall be mounted on a single post.

3. Install shared lane markings per 2014 MUTCD Figure 9C-9 not used.

BORING LOG

<table>
<thead>
<tr>
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<th>Description</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3-1/2&quot;</td>
<td>Boring Log</td>
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</tr>
</tbody>
</table>

DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

EX. PAVEMENT: CLEAR

IM. PAVEMENT: CLEAR

4. REMOVE & REPLACE 4" HMA

5. PLACE 3' 1/2" HMA BASE COURSE

6. 4' THICK SURFACE COURSE

7. TACK COAT ALL SURFACES

8. BOARDER W/ BLACK ROCK, TYP.

9. REMOVE  & REPLACE LOOP DETECTORS (8 EA.)
NOTES:

1. Remove & Replace 6" HMA (~6'x45')
2. Fix Low Points
3. Place 3" HMA Base Course & 3" HMA Surface Course
4. Tack Coat All Vertical Edges Prior to Paving

BORING LOG

<table>
<thead>
<tr>
<th>No.</th>
<th>Total Depth</th>
<th>Depth Measured at Locations Shown on Plan</th>
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<tbody>
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</tr>
<tr>
<td>3</td>
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</tr>
<tr>
<td>4</td>
<td>8.5&quot;</td>
<td>8.5&quot;</td>
</tr>
</tbody>
</table>

CONSTRUCTION NOTES:

1. Not Used
2. Install W11-1 & R4-11 roadside signs adjacent to shared lane marking per 2014 MUTCD. Signs shall be mounted such that W11-1 is above R4-11. Signs shall be mounted on a single post.
3. Install shared lane markings per 2014 MUTCD Figure 9C-9.
4. Not Used
CONSTRUCTION NOTES:

1. NOT USED.
2. INSTALL W11-1 & R4-11 ROADSIDE SIGNS ADJACENT TO SHARED LANE MARKING PER 2014 MUTCD. SIGNS SHALL BE MOUNTED SUCH THAT W11-1 IS ABOVE R4-11. SIGNS SHALL BE MOUNTED ON A SINGLE POST.
3. INSTALL BORING LOG MARKERS PER 2014 MUTCD FIGURE 14-A.
4. NOT USED.

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
<tr>
<th>No.</th>
<th>X</th>
<th>Y</th>
<th>MD</th>
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</table>
CONSTRUCTION NOTES:
1. Utility covers located on street should be lowered to grade prior to placement of surfacing material.
2. Install W11-1 & R4-11 roadside signs adjacent to shared lane marking per 2014 MUTCD. Signs shall be mounted on a single post.
3. Install shared lane markings per 2014 MUTCD Figure 9C-9.

BORING LOG
DEPTH MEASURED AT LOCATIONS SHOWN ON PLAN

<table>
<thead>
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<th>Depth</th>
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</table>

Pavement Engineering Inc.
Corporate Office:
3485 Sacramento Drive, Suite A
San Luis Obispo, CA 93401
805.781.2265
Staff Report

Date: February 13, 2019
To: Bicycle and Pedestrian Advisory Committee
From: Kevin Marstall, PE, City Engineer
Reviewed by: Aldrich Bautista, PE, Interim CIP Manager
Prepared by: Mark Migliore, Associate Civil Engineer
Mark.migliore@cityofconcord.org
925-671-3422

Subject: Cambridge Safe Route to School Improvements Project, Project No, 2456

Report in Brief
The Cambridge Safe Route to School Improvement Project, Project No, 2456 will provide accessibility improvements on both Victory Lane and Lacey Lane that will improve safety for pedestrians and bicyclists on both roads. As required, City staff held an open house public meeting based on the 60% design plans and are reviewing comments from that meeting.

This project is being presented to the Bicycle and Pedestrian Advisory Committee (Committee) for review of the proposed improvements shown on the attached project plans. Staff is requesting the Committee provide input for conformity to the City's Bicycle, Pedestrian and Safe Routes to Transit Plan, adopted in September 2016.

Background
At its June 13, 2017 meeting, the Concord City Council adopted Resolution 17-49 which laid the groundwork for the City to receive $9,084,000 from the Metropolitan Transportation Commission to implement numerous projects as part of the OBAG2 funding program. One of these projects is the Cambridge Safe Route to School (SRTS) project, Project No. 2456. This resolution stipulates that the project must be complete by June 2022. At its meeting on May 18, 2018, the City Council approved the FY2018-2019 Capital Improvement Program, which included the subject project. Given that this is a federally funded project, staff is required to hold a public meeting that will solicit input for the design from the owners/tenants in the project area.
City Council Agenda Report

February 13, 2019

**Project Description**
This project will provide safe walking and bicycle routes to the Cambridge Elementary School (School) and the Cambridge Park from the Four Corners Neighborhood, as well as the Monument Corridor in general. See Attachment 1 for project location map.

The project will improve pedestrian safety via enhancements to the existing uncontrolled School crosswalk on Lacey Lane with a Rapid, Rectangular, Flashing Beacon (RRFB) and associated crosswalk improvements. A sidewalk gap closure on Victory Lane at Rae Anne Drive will be closed with approximately 300 linear feet of new sidewalk, curb and gutter, and associated improvements to improve pedestrian safety throughout this area. Bicycle route striping and signage will be installed on Victory Lane for a safe, continuous bicycling route to the Park and connecting School.

**Discussion**
Design for the project began in November 2018 and is approximately 60% complete. Staff has proposed the locations of the required improvements in the project in conjunction with the approved project scope statement. The location for the RRFB on Lacey Lane and associated improvements is at the main crosswalk to the School. In addition to the installation of the RRFB, advanced yield markings and additional signage will be added as required for the RRFB.

The sidewalk on Victory Lane is proposed for the three parcels that do not currently have sidewalk at 1132, 1136 and 1142 Victory Lane. Driveways will be constructed to preserve access to residences. The accessible ramp at the corner of Victory Lane and Rae Anne Drive will be reconstructed to comply with current accessibility standards. Bicycle route signage and striping will be installed on Victory Lane to improve safety for bicyclists along this street.

As mentioned above, a public meeting is required for the project. An Open House meeting was held at the School on Wednesday, January 16, 2019. Seven members of the public attended after staff had mailed postcards to area residents, and advertised the meeting through the Monument Impact Resource Center. Staff is reviewing all comments from the meeting and will determine if implementation of any of these comments is feasible.

**Recommended Action**
Review the attached plans (Attachment 2), consider the recommendations discussed in this report, identify any additional issues, and provide additional recommendations to Staff regarding final design.

**Attachments**
1. Project Location Map
2. 60% Plans
Project Location Map
Cambridge Elementary Safe Route to School Improvements – Project No. 2456
CITY OF CONCORD
CAMBRIDGE ELEMENTARY SAFE ROUTES TO SCHOOL IMPROVEMENTS
PROJECT NO. 2456

PROJECT LOCATION MAP

PROJECT LOCATION

1. FINAL SITE DRAWINGS TO BE SUBMITTED TO THE CITY OF CONCORD BEFORE FINAL SITE SURVEY DOCS ARE SUBMITTED TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION FOR CONSTRUCTION PERMITS.
2. ALL FINAL SITE DRAWINGS TO BE SUBMITTED TO THE CITY OF CONCORD BEFORE FINAL SITE SURVEY DOCS ARE SUBMITTED TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION FOR CONSTRUCTION PERMITS.
3. ALL FINAL SITE DRAWINGS TO BE SUBMITTED TO THE CITY OF CONCORD BEFORE FINAL SITE SURVEY DOCS ARE SUBMITTED TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION FOR CONSTRUCTION PERMITS.
4. ALL FINAL SITE DRAWINGS TO BE SUBMITTED TO THE CITY OF CONCORD BEFORE FINAL SITE SURVEY DOCS ARE SUBMITTED TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION FOR CONSTRUCTION PERMITS.
5. ALL FINAL SITE DRAWINGS TO BE SUBMITTED TO THE CITY OF CONCORD BEFORE FINAL SITE SURVEY DOCS ARE SUBMITTED TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION FOR CONSTRUCTION PERMITS.
6. ALL FINAL SITE DRAWINGS TO BE SUBMITTED TO THE CITY OF CONCORD BEFORE FINAL SITE SURVEY DOCS ARE SUBMITTED TO THE CALIFORNIA PUBLIC UTILITIES COMMISSION FOR CONSTRUCTION PERMITS.
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LEGEND AND CONSTRUCTION NOTES:

- **E**: Enter on flashing beacon
- **S**: Enter and change sign and post of apparatus as noted
- **M**: Mark and install signals and post

**H**: Install thermoplastic pavement markings as shown on arrow as noted. Letters shall be made of material to meet design and notes. Compare glass reflective sheets with the sample. Figures 2B-1 and 2B-2 are included.

**R**: Signal installation and warning signs. From California Figure 3-6. Figure 2B-11 includes.

**C**: White arrows pavement markings on green colored pavement 4' X 12'

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**May Use Full Lane**

**Begin Right Turn Lane**

**Yield to Bikes**

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**Figures 9C-9. Shared Lane Marking**

**Shared Lane Marking Detail**