PLANS FOR THE CONSTRUCTION OF CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

FUNDED BY:

MEASURE BB

CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
800-227-2600

THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AND THE CITY PUBLIC WORKS AGENCY AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING ANY EXCAVATION IN THE VICINITY OF UNDERGROUND FACILITIES.

CITY PROJECT NO. C427720

INDEX OF DRAWINGS

SHEET NAME	SHEET NUMBER	SECTION	DESCRIPTION / STREET LOCATIONS
T-01	1	TITLE SHEET	COVER SHEET, LOCATION MAP, AND INDEX SHEET
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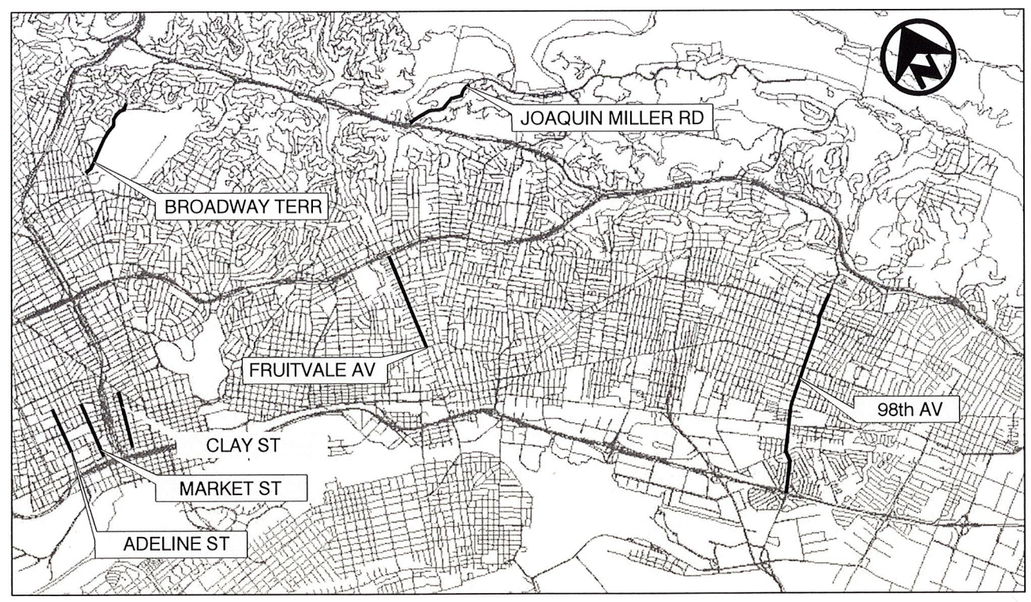
D-02	3		POLLUTION PREVENTION
D-03 - D-07	4 - 8	MISC. DETAILS	FULL - WIDTH MILLING / SW REPAIR / MODIFIED CURB & GUTTER LADDERED X-WALKS / ADV YIELD LINE / CORE DATA TABLE MODIFIED CURB RAMPS / FH MARKER LOCATIONS / PAVEMENT UNDULATION
L-01 - L-05	9 - 13	LAYOUT	98TH AVE - HIGHWAY 880 ON RAMP TO THERMAL ST
L-06 - L-07	14 - 15		BROADWAY TERRACE - BROADWAY TO HARBORD DR
L-08 - L-09	16 - 17		ADELINE ST - 10TH ST TO 19TH ST
L-10 - L-12	18 - 20		FRUITVALE AVE - FOOTHILL BLVD TO HAROLD ST
L-13 - L-14	21 - 22		MARKET ST - 7TH ST T0 18TH ST
L-15 - L-16	23 - 24		JOAQUIN MILLER RD (NB) - MONTEREY BLVD TO SANBORN DR
L-17 - L-18	25 - 26		CLAY ST - 7TH ST TO SAN PABLO AVE
L-19 - L-20	27 - 28		MARTIN LUTHER KING JR WAY - 27TH TO W MACARTHUR
L-21	29		LINWOOD AVE - E 38TH ST TO HAMPLE ST
		STRIPING PLANS	STRIPING PLANS WILL BE PROVIDED AFTER BID OPENING AND PRIOR TO NOTICE TO PROCEED

CITY OF OAKLAND LOCATION MAP



MICHAEL NEARY, P.E.
ASSISTANT DIRECTOR, PWA
DEPARTMENT OF ENGINEERING AND CONSTRUCTION

CITY OF OAKLAND
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ENGINEERING DESIGN AND RIGHT-OF-WAY DIVISION
DIVISION MANAGER

TRANSPORTATION PLANNING & FUNDING
DIVISION MANAGER

PROJECT DELIVERY DIVISION
DIVISION MANAGER

TRANSPORTATION SERVICES
DIVISION MANAGER

CITY ADMINISTRATOR'S OFFICE
CITY ADA COORDINATOR

PWA INFRASTRUCTURE AND OPERATIONS
ASSISTANT DIRECTOR

CIVIL DESIGN

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

SUPERVISING CIVIL ENGINEER

CIVIL ENGINEER
RCE NO. C65366 EXP. 09/30/17

CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	BY	DATE	REFERENCE

PROJECT NO.
C427720

SCALE: NTS
DATE: APRIL 2016
SHEET NO. 1 OF 25

C389010 - VARIOUS STREETS AND ROADS PREVENTIVE MAINTENANCE

DRAWING NAME: \\PWA\FES\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\T-01_Title Sheet.dwg
LAYOUT: T-01
PLOTTED BY: Mathew

LEGEND

- FACE OF CURB LINE
- RIGHT-OF-WAY LINE
- LIMIT OF GRIND AND OVERLAY
- "X" TAPER — TAPER LENGTH OF STRIPING TRANSITIONS FROM BEGINNING OF CURB TO END OF CURVE
- FIRE HYDRANT
- 1000 — HOUSE ADDRESS
- NO — PAVEMENT DELINEATION DETAIL NUMBER PER CALTRANS STD PLANS
- FM — INSTALL BLUE, TWO-WAY RETROREFLECTIVE RAISED PAVEMENT FIRE HYDRANT MARKER (TYP)
- I — INSTALL TYPE I ARROW PER CALTRANS STD PLANS (TYP)
- IV — INSTALL TYPE IV (L OR R) ARROW PER CALTRANS STD PLANS (TYP)
- VI — INSTALL TYPE VI ARROW PER CALTRANS STD PLANS (TYP)
- VII — INSTALL TYPE VII (L OR R) ARROW PER CALTRANS STD PLANS (TYP)
- W — INSTALL CROSS WALK (SOLID 12" WHITE LINE) (TYP)
- Y — INSTALL CROSS WALK (SOLID 12" YELLOW LINE) (TYP)
- LL — INSTALL LIMIT LINE (SOLID 12" WHITE LINE) (TYP)
- YL — INSTALL YIELD LINE (SOLID 1' x 3' WHITE SERIES OF ISOSCELES TRIANGLE)
- D — RETROFIT EXISTING DOME PAVER
- (E) — EXISTING RAMP
- E — RECONSTRUCT CURB RAMP CASE "E"
- C — RECONSTRUCT CURB RAMP CASE "C"
- MC — RECONSTRUCT CURB RAMP MODIFIED CASE "C"
- ME — RECONSTRUCT CURB RAMP MODIFIED CASE "E"
- E — CONSTRUCT CURB RAMP CASE " E"
- C — CONSTRUCT CURB RAMP CASE "C"
- ME — CONSTRUCT CURB RAMP MODIFIED CASE "E"
- DIRECTION OF CURB RAMP
- INSTALL LADDERED CROSSWALK
- INSTALL BIKE LANE SYMBOL AND ARROW
- INSTALL SHARROW BICYCLE SYMBOL
- CONCRETE WORK
- BASE REPAIR - 8" DEPTH
- CORING DATA SAMPLE
- EXISTING MONUMENT
- COLD PLANING FOR BWC-G

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

ABBREVIATIONS

AB	AGGREGRATE BASE
ABN	ABANDON
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
AT&T	AT&T TELECOMMUNICATION
AVE	AVENUE
BART	BAY AREA RAPID TRANSIT
Btw	BETWEEN
BLVD	BOULEVARD
BR	BASE REPAIR
BWC-G	BONDED WEARING COURSE(GAP GRADE)
CB	CATCH BASIN
CD	CORING DATA
CE	CITY ELECTRICAL
C&G	CURB AND GUTTER
CO	CLEANOUT
CONT	CONTINUE
CR	CURB RAMP
CT	COURT
CTV	CABLE TELEVISION LINE
DI	DRAINAGE INLET
DR	DRIVE
DWG	DRAWING
DWY	DRIVEWAY
E	ELECTRIC LINE
EX	EXISTING
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT
EL	ELEVATION
EP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVEL WAY
FA	FIRE ALARM
F/C	FACE OF CURB
FH	FIRE HYDRANT
FL	FLOWLINE
G	GAS LINE
GB	GRADE BREAK
GV	GAS VALVE
JP	JOINT POLE
LH	LAMPHOLE
LAT	LATERAL
L	LENGTH
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
MON	CITY SURVEY MONUMENT
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
PCC	PORTLAND CEMENT CONCRETE
PG&E	PACIFIC GAS & ELECTRIC
PL	PROPERTY LINE
PM	PAVEMENT MARKING
PROP	PROPOSED
PVT	PRIVATE
RD	ROAD
RG	REMOVE GROOVE
RPM	REFLECTIVE PAVEMENT MARKER
R/R	RAILROAD
R/W	RIGHT-OF-WAY
S	SLOPE
SD	STORM DRAIN
SS	SANITARY SEWER
SPECS	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2009 EDITION
SP	SPECIAL PROVISIONS
SL	STREET LIGHT
ST	STREET
STA	STATION
SW	SIDEWALK
SDMH	STORM DRAIN MANHOLE
SSMH	SANITARY SEWER MANHOLE
STR	STRUCTURE
T	TELEPHONE LINE
TC	TOP OF CURB
TS	TRAFFIC SIGNAL
TP	TELEPHONE POLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UPRR	UNION PACIFIC RAIL ROAD
W	WATER LINE
WV	WATER VALVE
WY	WAY

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT ALL TREES, LANDSCAPING, AND EXISTING IMPROVEMENTS IN ACCORDANCE WITH SECTION 7-9. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED OR REMOVED AS A RESULT OF PROJECT CONSTRUCTION. DAMAGE TO UTILITY LINES AND FACILITIES WILL BE REPAIRED BY THE RESPECTIVE AGENCIES AT THE CONTRACTOR'S EXPENSE.

2. THE CONTRACTOR IS RESPONSIBLE FOR TAKING PROPER PRECAUTIONS TO PROTECT EXISTING UTILITIES. THE CONTRACTOR SHALL EXPOSE ALL UNDERGROUND FACILITIES BY HAND BEFORE USING POWER EQUIPMENT. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING OVER OR AROUND EXISTING FACILITIES (CONDUITS, CULVERTS, UTILITIES, ETC.) ANY DAMAGE TO NEW OR EXISTING FACILITIES RESULTING FROM OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 AT LEAST TWO WORKING DAYS BEFORE EXCAVATING AND REQUEST DELINEATION OF THE UNDERGROUND UTILITIES ON THE SURFACE OF THE STREET IN THE AREA TO BE EXCAVATED. NOTE THAT MARKINGS ARE ONLY VALID FOR 14 DAYS. REQUESTS TO USA NEED TO BE MADE TO RENEW THE MARKINGS BEFORE THE 14-DAY PERMIT PERIOD ELAPSES.

4. THE CONTRACTOR SHALL CALL THE CITY OF OAKLAND ELECTRICAL DEPARTMENT AT (510) 615-5438 AND THE OFFICE OF COMMUNICATIONS AND INFORMATION SERVICES AT (510) 238-2930 AT LEAST FIVE WORKING DAYS PRIOR TO EXCAVATION FOR FIELD MARKING OF CITY ELECTRICAL/FIRE ALARM FACILITIES. REFER TO SECTION 7-9 FOR REQUIREMENTS REGARDING DAMAGE TO CITY ELECTRICAL FACILITIES DURING CONSTRUCTION.

5. ALL OTHER ABBREVIATIONS AND SYMBOLS SHALL BE AS SHOWN IN THE STANDARD SPECIFICATIONS.

6. ALL ELEVATIONS ARE BASED UPON THE CITY OF OAKLAND DATUM.

7. THIS PROJECT HAS 74± MONUMENTS, LOCATED WITHIN THE PAVEMENT RESURFACING AREAS AND EXPECTED TO BE DISTURBED. ALTHOUGH UNEXPECTED AT THIS TIME, ADDITIONAL MONUMENTS MAY BE PRESENT OR UNCOVERED AND SHALL BE CONSIDERED TO BE INCLUDED IN THE PROJECT REQUIREMENTS FOR MONUMENTS. THE CITY SURVEY OFFICE HAS PREPARED A CD OF KNOWN BENCHMARKS AND MONUMENTS IN ADOBE ACROBAT PDF FORMAT FOR USE BY THE CONTRACTOR.
THE CONTRACTOR IS HEREBY ADVISED TO BECOME FAMILIAR WITH SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. THIS SECTION DEALS WITH THE REQUIREMENTS IMPOSED IN MONUMENT PRESERVATION AND PROTECTION AND THAT ARE PARTIALLY ASSIGNED TO THE CONTRACTOR BY VIRTUE OF THIS PROJECT'S SPECIFICATIONS.
THE CONTRACTOR'S CALIFORNIA-LICENSED SURVEYOR SHALL REFERENCE THE LOCATION AND FILE A CORNER RECORD WITH THE COUNTY SURVEYOR OF ALAMEDA FOR ALL KNOWN PROJECT MONUMENTS BEFORE DOING ANY CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE OFFICIAL COPIES OF THE COUNTY'S CORNER RECORDS TO THE CITY SURVEYOR BEFORE DOING ANY CONSTRUCTION WORK ON PROJECT STREETS. THE CONTRACTOR SHALL NOTE THAT IT CAN TAKE ALAMEDA COUNTY RECORDS OFFICE UP TO FOUR WEEKS TO ACCEPT AND FILE CORNER RECORDS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PAID FOR BID ITEM PRE & POST CONSTRUCTION MONUMENT VERIFICATION.

SURVEY MONUMENT.

IF IT IS NECESSARY TO REMOVE OR REPLACE A CITY MONUMENT IN CONJUNCTION WITH THE WORK ASSOCIATED WITH THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE TWO WEEK'S NOTIFICATION TO THE OFFICE OF THE CITY SURVEYOR AND, UNDER THE DIRECTION AND SUPERVISION OF THE CITY SURVEYOR, THE MONUMENT WILL EITHER BE TEMPORARILY REMOVED AND LATER REPLACED OR IT WILL BE RELOCATED TO ANOTHER LOCATION. THE UNIT PRICE FOR EACH BID ITEM RESET MONUMENT SHALL INCLUDE FULL COMPENSATION FOR ALL LABOR, MATERIALS, SURVEYING, AND FILING COSTS AS REQUIRED BY LAW FOR RESETTING/RELOCATING A MONUMENT. IN THE EVENT THAT RAISING A MONUMENT CREATES A WELL DEPTH GREATER THAN 15" FROM MONUMENT TO SURFACE, THE MONUMENT SHALL BE RESET AND ALSO PAID FOR BY BID ITEM RESET MONUMENT. IF THE CONTRACTOR SHALL REMOVE, DESTROY, OR DAMAGE ANY CITY MONUMENT WITHOUT PRIOR NOTIFICATION TO THE CITY SURVEYOR, THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE SAID MONUMENT. IN THE EVENT THAT THE MONUMENT CANNOT BE REPLACED IN ITS ORIGINAL LOCATION, THE CONTRACTOR SHALL REPLACE IT IN AN ALTERNATE LOCATION AS DIRECTED BY THE CITY SURVEYOR OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL ABSORB ALL COSTS TO RESTORE OR REPLACE SUCH MONUMENTS. SUCH WORK SHALL INCLUDE ALL MATERIALS, LABOR, SURVEYING AND FILING COSTS AS MAY BE REQUIRED BY THE LAW.
ALL MONUMENTS SHALL BE RAISED OR LOWERED TO THE FINISH GRADE DURING CONSTRUCTION OPERATIONS.
THE CONTRACTOR SHALL SHOW THE LOCATION OF ALL CITY MONUMENTS ON THE SUBMITTED STRIPING PLANS.

8. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN AT ALL TIMES TEMPORARY FENCES, BARRICADES, LIGHTS, SIGNS, AND OTHER DEVICES NECESSARY TO PREVENT ACCIDENTS, DAMAGES, OR INJURIES TO THE PUBLIC.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING DRAINAGE PATH WITHIN THE LIMITS OF WORK.

10. THE CONTRACTOR SHALL NOT ALLOW SILT-LADEN WATER GENERATED FROM SAWCUTTING OPERATIONS TO FLOW INTO THE STORM DRAIN SYSTEM NOR BE DEPOSITED INTO THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SILT MATERIAL FROM THE JOB SITE. FULL COMPENSATION FOR PERFORMING THIS WORK SHALL BE INCLUDED IN THE PRICE PAID FOR THE VARIOUS ITEMS AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.

11. SAWCUTTING SHALL BE TO A MINIMUM DEPTH OF 2" FOR ASPHALT CONCRETE PAVING AND FULL DEPTH FOR CONCRETE PAVING. NO STOMPING WILL BE PERMITTED.

12. REMOVAL AND REPLACEMENT OF CONCRETE CURB AND GUTTER SHALL EXTEND TO THE NEAREST WEAKENED PLANE JOINTS. SIDEWALK REMOVAL AND REPLACEMENT SHALL EXTEND TO THE NEAREST SCORE MARK.

13. THE CONTRACTOR SHALL PROVIDE A PROJECT SCHEDULE FOR THE CITY'S REVIEW AND APPROVAL PER SECTION 6-1.

14. THE CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY STRUCTURES TO FINISH GRADES WITHIN PROJECT LIMITS; BUT NOT LIMITED TO MANHOLE LIDS, UTILITY BOX COVERS, AND UTILITY VAULT LIDS .

PROJECT NOTES

1. THE CONTRACTOR SHALL HAVE A CLASS A CONTRACTOR'S LICENSE FOR THIS PROJECT.

2. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO RESIDENTS AND BUSINESS OF AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS, IN ACCORDANCE WITH SECTION 7-10.5.

3. THE CONTRACTOR SHALL COORDINATE WITH BUILDING OWNERS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO AND IN FRONT OF EXISTING DRIVEWAYS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL THE WORK TO BE PERFORMED BY SUBCONTRACTORS, INCLUDING TRAFFIC CONTROL WORK, CONCRETE CONSTRUCTION WORK, AND OTHER WORK.

5. THE PROJECT PLANS SHOW THE LOCATIONS OF ASPHALT CONFORM LINES. THE EXACT LOCATION OF ASPHALT AND CONCRETE CONFORM LINES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. SAWCUTTING OF CONCRETE SIDEWALK ALONG CONFORM LINES SHALL BE LOCATED TO THE NEAREST SCORE LINE.

6. THE CONTRACTOR SHALL REPLACE THE PRE-EXISTING WIDTH OF CONCRETE GUTTERS WHEN REPLACING GUTTERS OR CONSTRUCTING CURB RAMPS. IF GUTTER WORK IS TO BE CONSTRUCTED AT A CORNER WHERE THERE ARE TWO DIFFERENT GUTTER WIDTHS, THE NEW GUTTER SHALL TRANSITION SMOOTHLY BETWEEN THE TWO DIFFERENT GUTTER WIDTHS.

7. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER THREE WORKING (3) DAYS IN ADVANCE OF TREE ROOT PRUNING SO THAT A CITY TREE INSPECTOR CAN BE SCHEDULED FOR A TREE STRESS TEST.

8. NEW CURB RAMPS SHALL BE CONSTRUCTED AT LOCATIONS WITHOUT EXISTING CURB RAMPS. FOR DIRECTIONAL CURB RAMPS, CONTRACTOR SHALL PROVIDE RAMP PARALLEL TO CROSSWALK.

9. THE CONTRACTOR SHALL PROVIDE PROJECT AS-BUILT DRAWINGS TO THE RESIDENT ENGINEER WITH THE FINAL PAYMENT REQUEST.

10. EXISTING TRAFFIC LOOPS REMOVED DURING THE CONTRACTOR'S OPERATIONS WILL NOT BE REPLACED EXCEPT FOR CALTRANS.

11. THE CONTRACTOR SHALL BE EVALUATED AT THE END OF THE PROJECT. SEE SECTION F OF THE BOUND DOCUMENTS.

12. REFER TO SECTION 3-2.2.4 FOR COST ESCALATION CLAUSES FOR ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE.

13. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A LIST OF BEST MANAGEMENT PRACTICES TO PREVENT POTABLE WATER FROM ENTERING THE STORM DRAIN SYSTEM DURING ALL CONSTRUCTION OPERATIONS. ALL PROJECT STORM DRAIN INLETS SHALL BE BLOCKED WITH SILT SACK AND/OR GRAVEL BAGS DURING CONSTRUCTION. REFER TO SUBSECTION 7-8.6.

14. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY FOR REVIEW AND APPROVAL 10 WORKING DAYS PRIOR TO CONSTRUCTION.

STRIPING NOTES

1. CROSSWALK STRIPING MAY DEVIATE FROM EXISTING CROSSWALK CONFIGURATIONS IN ORDER TO PROVIDE PEDESTRIANS A REFUGE UP TO FIVE FEET FROM THE GUTTER FLOWLINE IN THE CURB RAMP AREA.

2. ALL PROJECT TRAFFIC STRIPING (INCLUDING BIKE LANE STRIPING) AND PAVEMENT MARKERS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH SUBSECTION 210-1.6.5.

3. ALL TRAFFIC STRIPING, PAVEMENT MARKERS AND MARKINGS REMOVED OR DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.

4. REPAINT ALL "STOP" MARKINGS, CROSSWALKS, CENTERLINES, AND LIMIT LINES ON CROSS-STREETS IN ORIGINAL LOCATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

5. INSTALL BLUE, TWO-WAY RETROREFLECTIVE RAISED PAVEMENT FIRE HYDRANT MARKERS IN FRONT OF ALL EXISTING FIRE HYDRANTS IN PAVEMENT SEAL AREAS, PER FIRE HYDRANT LOCATION DETAIL.

40 0 40 80
SCALE IN FEET

CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH	
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

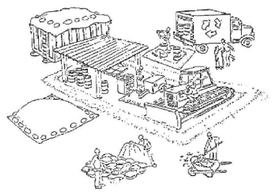
LEGEND, ABBREVIATIONS, SYMBOLS,
GENERAL NOTES AND PROJECT NOTES

D-01

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
2 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement Management\003 Projects\018 C427720 Citywide Preventive Maintenance Resurfacing\00 Design\Plans\Sheets\D-01 Legend Abbreviation General Notes.dwg

Pollution Prevention - It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines and the project specifications will ensure your compliance with **City of Oakland requirements.**

Materials storage & spill cleanup

Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control as needed.
- Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with **City of Oakland requireiments for recycling construction materials, wood, gyp board, pipe, etc."**
- Check dumpsters regularly for leaks and to make sure they are not overfilled. Repair or replace leaking dumpsters promptly.
- Cover all dumpsters with a tarp at the end of every work day or during wet weather.

Hazardous materials management

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Dispose of all containment and cleanup materials properly.
- Report any hazardous materials spills immediately! Dial 911 or **City of Oakland Public Works Hotline at (510) 615-5566**

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

Vehicle and equipment maintenance & cleaning

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.

Earthwork & contaminated soils

- Keep excavated soil on the site where it will not collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.

- Earth moving activities are only allowed during dry weather by permit and as approved by the **City of Oakland** in the Field.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.
- If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of cntaminated soil according to their instructions.

Dewatering operations

- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.

- Be sure to notify and obtain approval from the Engineer before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Saw cutting

- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work

- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt concrete pavement.

Concrete, grout, and mortar storage & waste disposal

- Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.

- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal off site.

Painting

- Never rinse paint brushes or materials in a gutter or street!
- Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.
- Paint out excess oil-based paint before cleaning brushes in thinner.
- Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

Landscape Materials

- Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

REGISTERED PROFESSIONAL ENGINEER
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No. C65952
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STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

Storm drain polluters may be liable for fines of $10,000 or more per day!

For references and more detailed information:
www.cleanwaterprogram.org
www.cabmphandbooks.com

40 0 40 80
SCALE IN FEET

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
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CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
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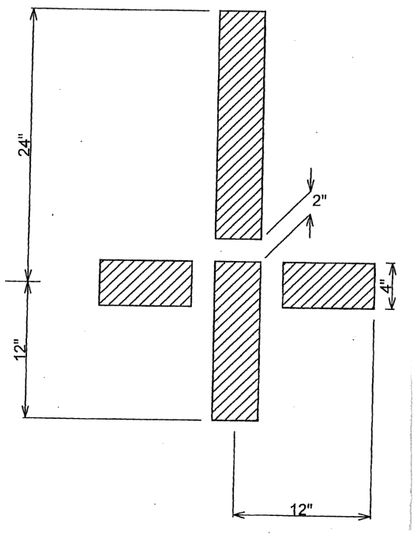
DESIGNED BY	AC					
DRAWN BY	AC					

POLLUTION PREVENTION

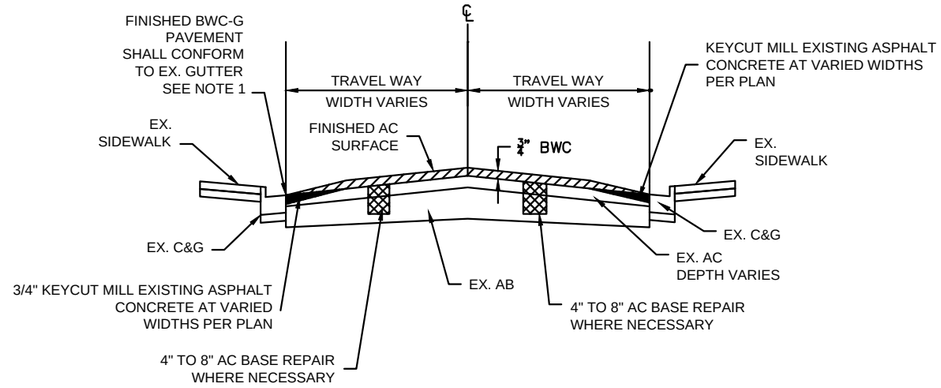
D-02

SCALE: 1"=40' HOR. VERT.
DATE: APRIL 2016
SHEET NO. 3 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement Management\00R Projects\01\C427720 Citywide Preventive Maintenance Resurfacing\00D Tasks\Plans\Sheets\D-02 Pollution Prevention.dwg

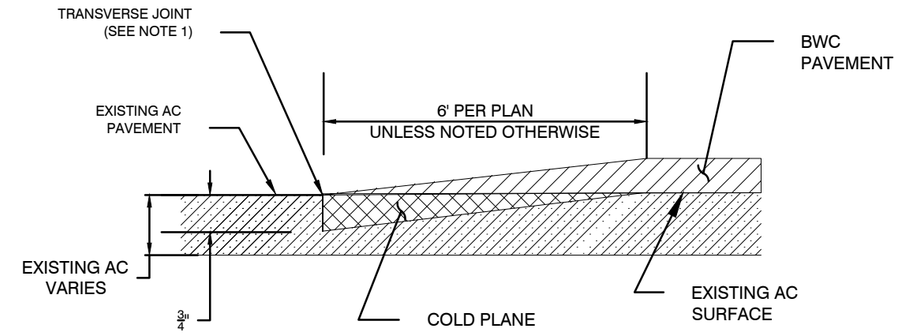


PARKING TEE DETAIL
NOT TO SCALE



NOTES:

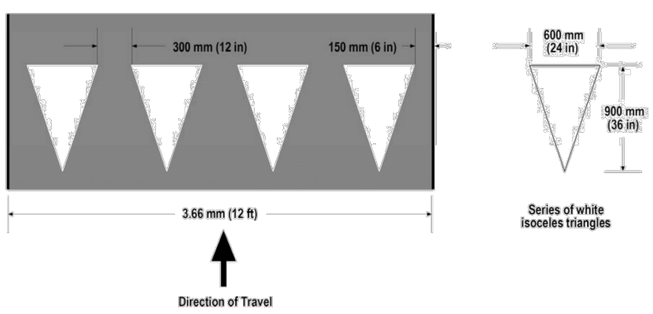
1. COLD PLANING SHALL BE PERFORMED TO A DEPTH SUCH THAT THE BWC-G WILL RESULT IN A FINISHED AC SURFACE BEING FLUSH WITH EXISTING LIP OF GUTTER



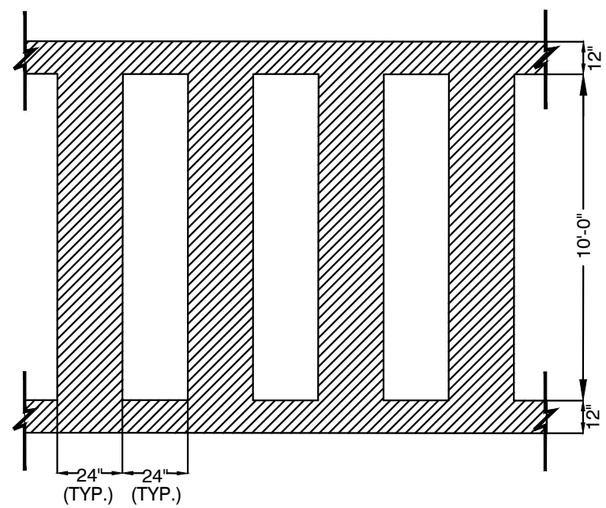
NOTES:

1. EXISTING AC SHALL BE SAW CUT AT THE TRANSVERSE JOINT TO THE FULL DEPTH OF THE COLD PLANING IN A NEAT, STRAIGHT AND CLEAN VERTICAL EDGE.

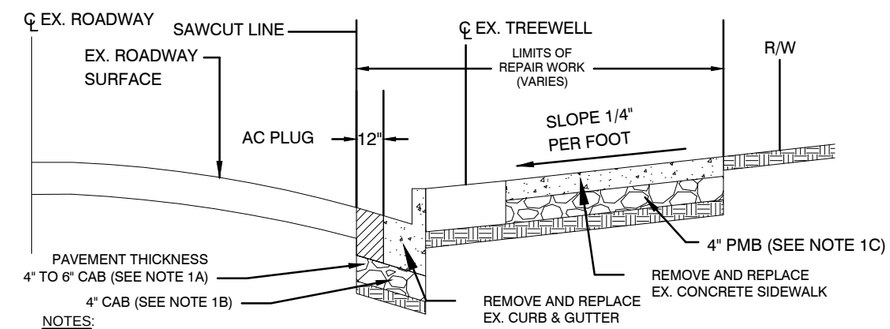
Figure 3B-14 (CA). Examples of Yield Line Layouts



ADVANCED YIELD LINE DETAIL
NOT TO SCALE



LADDERED CROSSWALK
NOT TO SCALE



NOTES:

1. REMOVE AND REPLACE EXISTING SUBGRADE MATERIAL AS DIRECTED BY THE ENGINEER.
   A: PLUG BASE REPAIR: 4"-6" CRUSHED AGGREGATE BASE (CAB)
   B: CURB AND GUTTER REPAIR: 4" CRUSHED AGGREGATE BASE (CAB)
   C: SIDEWALK BASE REPAIR: 4" PROCESSED MISCELLANEOUS BASE (PMB)
2. THE ENGINEER WILL MARK THE LIMITS OF REPAIR WORK IN THE FIELD. REPAIR WORK SHALL BE WITHIN PUBLIC RIGHT-OF-WAY OR OTHERWISE DIRECTED BY THE ENGINEER.
3. GRATES FOR TREEWELLS WILL NOT BE INSTALLED IN SIDEWALK REPAIR LOCATIONS.
4. THE AC PLUG AND CURB AND GUTTER (CAB) SHALL BE COMPACTED TO 95% RELATIVE COMPACTION. THE SIDEWALK (PMB) SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

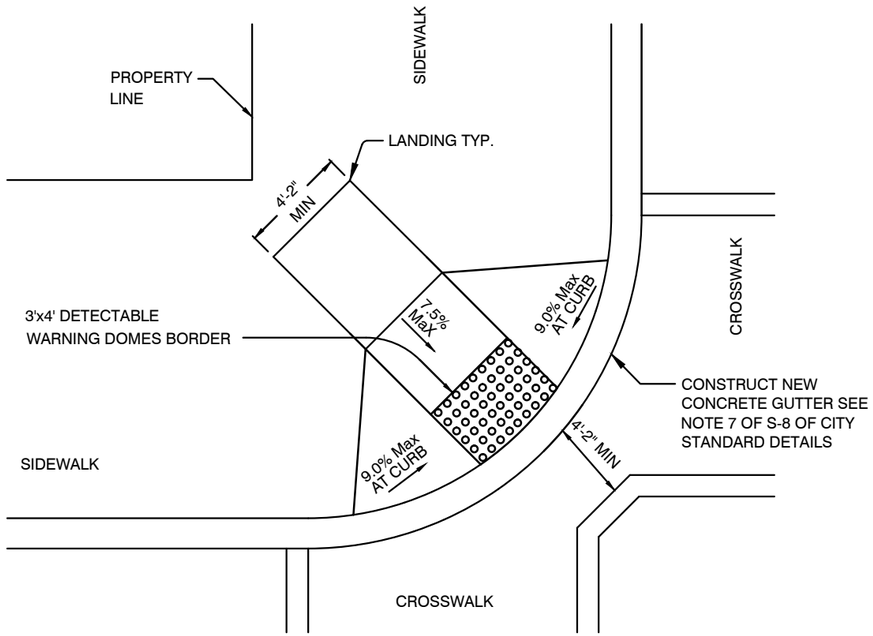
CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

MISCELLANEOUS DETAILS

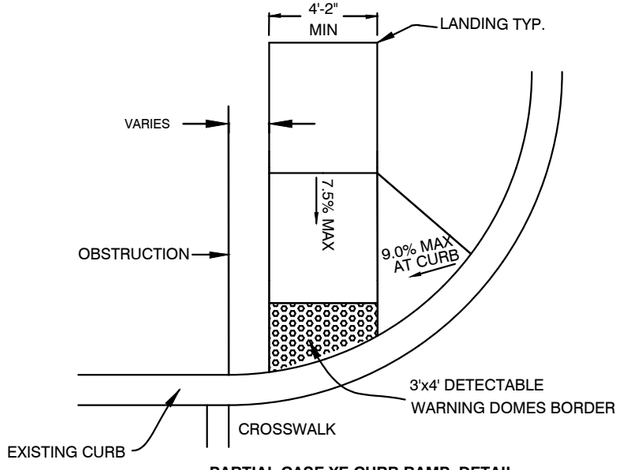
D-03

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 4 OF 29

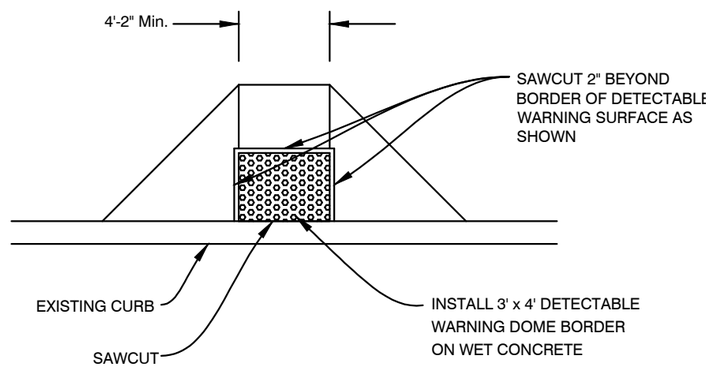
DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\D-03-07 Details.dwg
PLOT DATE: 06-03-16
PLOTTED BY: lee@mw



MODIFIED CASE "E" RAMP (DIAGONAL) (SEE THE REVISED STANDARD CALTRANS CURB RAMP DETAIL FOR MORE INFORMATION)

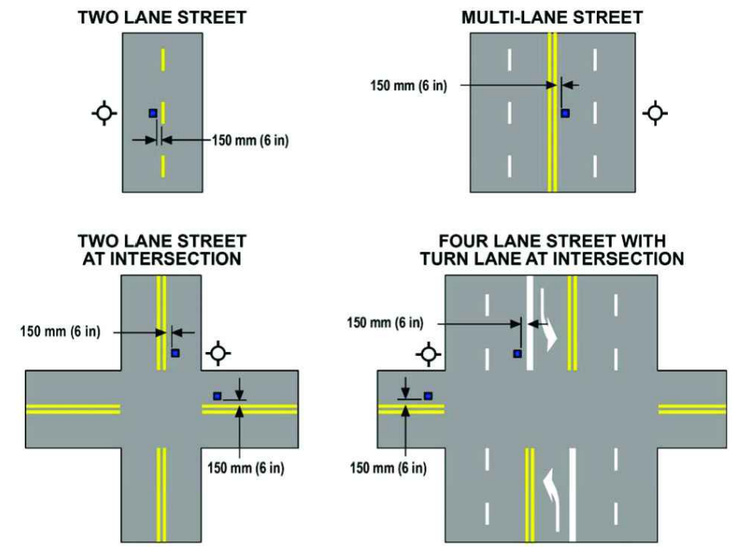


PARTIAL CASE XE CURB RAMP DETAIL (USE THE REVISED STANDARD CALTRANS CURB RAMP DETAIL FOR MORE INFORMATION)



RETROFIT EXISTING DOME PAVERS DETAIL

Figure 3B-102 (CA). Examples of Fire Hydrant Location Pavement Markers



LEGEND

Fire Hydrant

Blue Retroreflective Raised Pavement Marker

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

NOTE: SEE CITY STANDARD FOR DETECTABLE WARNING DETAILS

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH	
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

MISCELLANEOUS DETAILS

D-04

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 5 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\D-03-07 Details.dwg
PLOT DATE: 05-03-16
PLOTTED BY: luzmac

CORING DATA SAMPLE

		Layer 1 (in.)	Layer 2 (in.)						Layer 3 (in.)					
Sheets	Lab_Number	AC	Brick	Concrete	Dirt	"Fabric (See Note 2)"	Rock	MACADAM	Concrete	Dirt	Rock	MACADAM	Sand	Coring Date
L-01	15-2091	16.00			X									9/1/2015
L-01	15-2092	16.00			X									10/6/2015
L-01	15-2093	15.50			X									9/2/2015
L-02	15-2094	16.00			X									10/5/2015
L-02	15-2095	16.00			X									9/10/2015
L-02	15-2096	16.00			X									10/2/2015
L-03	15-2097	16.00			X									9/16/2015
L-03	15-2098	16.50			X									10/2/2015
L-03	15-2100	16.00			X									10/1/2015
L-03	15-2099	16.00			X									9/17/2015
L-04	15-2101	16.00			X									10/1/2015
L-04	15-2102	15.50			X									9/18/2015
L-04	15-2103	16.00			X									9/29/2015
L-05	15-2104	15.00					X							9/23/2015
L-05	15-2105	12.50			X									9/28/2015
L-06	15-1540	6.00					X							6/22/2015
L-06	15-1541	6.50						X						7/6/2015
L-06	15-1542	3.50		6.5							X			6/30/2015
L-07	15-1543	3.00		6.5						X				6/30/2015
L-07	15-1544	4.00		6.5						X				7/3/2015
L-07	15-1545	8.00					X							7/6/2015
L-07	15-1751	6.00					X							7/28/2015
L-08	15-1132	9.00						X						5/11/2015
L-08	15-1073	12.00					X							5/4/2015
L-08	15-1162	6.00						X						5/14/2015
L-08	15-1075	11.00					X							5/4/2015
L-08	15-1133	5.50					X							5/11/2015
L-08	15-1074	9.00					X							5/4/2015
L-08	15-1077	12.00						X						5/6/2015
L-08	15-1076	9.00					X							5/5/2015
L-09	15-1078	2.5					X							5/5/2015
L-09	15-1163	8.0					X							5/5/2015
L-10	15-1858	4.0		5.5						X				8/18/2015
L-10	15-1953	6.5		5.5						X				8/19/2015
L-10	15-1954	4.0		6.0						X				8/25/2015
L-11	15-1956	12.5			X									8/27/2015
L-11	15-1955	5.0		6.0						X				8/28/2015
L-11	15-1957	4.5		7.0						X				8/28/2015
L-12	15-1958	13.5					X							8/26/2015
L-13	15-1193	11.0			X									5/18/2015
L-13	15-1370	9.0			X									6/15/2015
L-13	15-1194	8.0			X									5/18/2015
L-13	15-1372	9.5					X							6/12/2015
L-13	15-1371	10.0					X							6/12/2015
L-13	15-1289	10.5			X									6/2/2015
L-14	15-1373	9.0		6.0						X				6/8/2015
L-14	15-1290	9.5			X									6/3/2015
L-14	15-1291	7.5		6.0						X				6/4/2015
L-14	15-1292	10.0			X									6/4/2015
L-15	15-2077	5.0					X							9/3/2015
L-16	15-1845	4.5												8/3/2015
L-16	15-1846	5.0												8/3/2015
L-16	15-1847	4.5												8/3/2015
L-17	16-0448	5.0		6.0		1.0"					X			4/25/2016
L-17	16-0450	5.0		5.0		2.0"				X				4/25/2016
L-17	16-0451	5.0		7.0		1.5"					X			4/28/2016
L-17	16-0447	6.0		7.0		2.0"					X			5/2/2016
L-17	16-0449	3.5		12.5						X				5/2/2016
L-18	16-0445	9.0				2.0"					X			4/28/2016
L-19	16-0361	6.0		6.0		1.5"				X				4/12/2016
L-20	16-0362	6.5		8.0						X				4/11/2016
L-20	16-0363	8.5		6.0		1.5"				X				4/11/2016

LAYER 1
LAYER 2
LAYER 3

CORING SAMPLE SECTION

NOTES:

1. ALL DEPTH SHOWN WAS MEASURED IN INCHES FROM EXISTING FINISH GRADE DOWN.
2. FABRIC LAYER: DEPTH MEASURED FROM EXISTING FINISH GRADE.

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER	JIMMY MACH	
RCE NO. C65952	EXP. 06/30/16	
CHECKED BY	JIMMY MACH	
DESIGNED BY	AC	
DRAWN BY	AC	

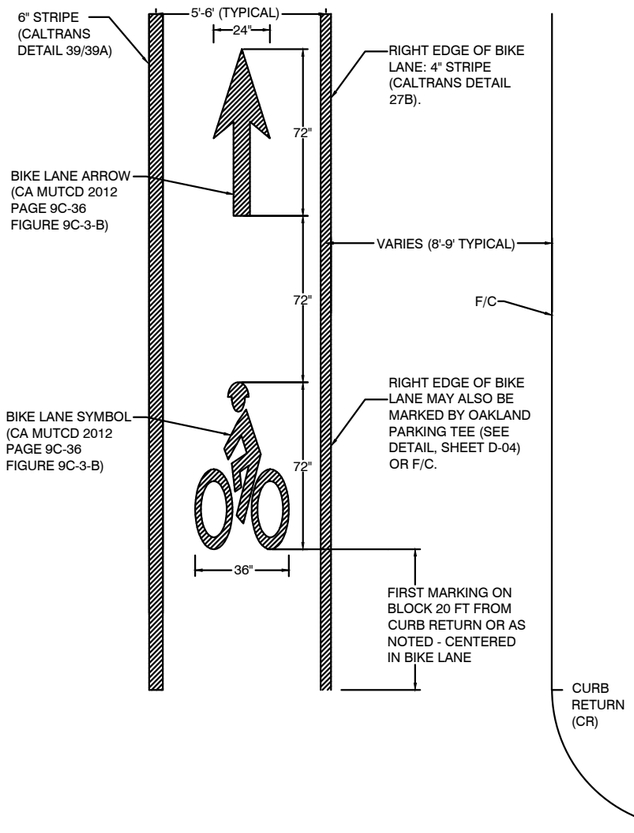
No.	DATE	BY	REFERENCE

CORING DATA TABLE

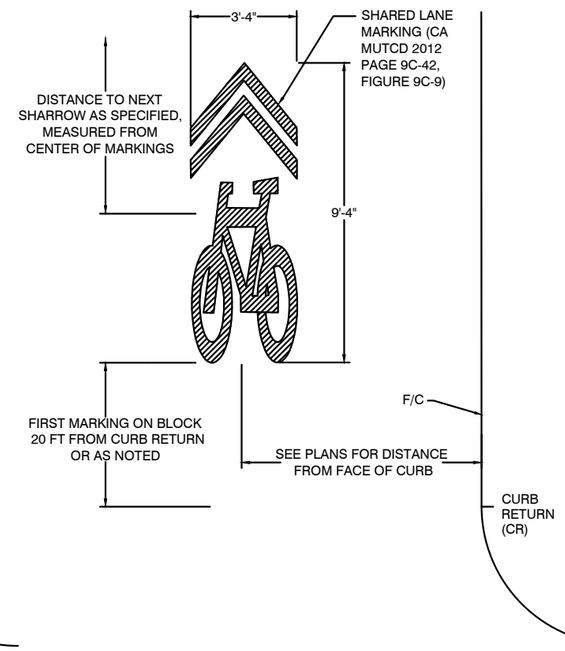
D-05

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 6 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\D-03-07 Details.dwg
PLOT DATE: 05-03-16
PLOTTED BY:

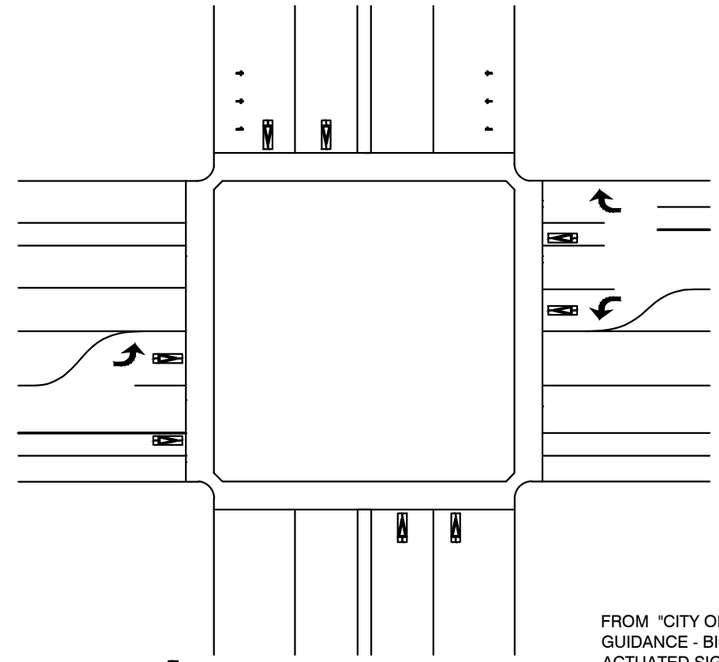


BIKE LANE SYMBOL AND ARROW MARKINGS



SHARED LANE MARKING (SHARROW)

BICYCLE DETECTOR PAVEMENT MARKING INTERSECTION PLACEMENT (TYPICAL)



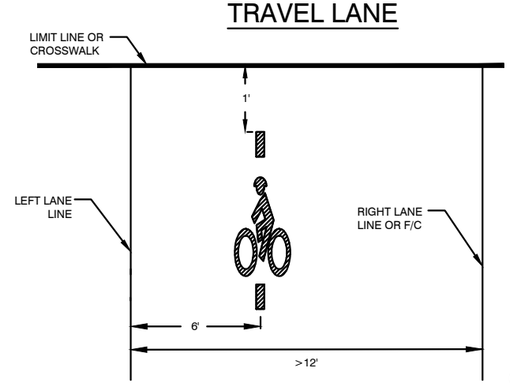
LEGEND: BICYCLE DETECTOR SYMBOL

GENERAL NOTES

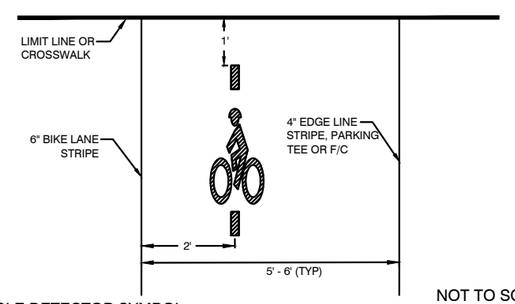
1. THE BICYCLE DETECTOR PAVEMENT MARKING ("SYMBOL") SHALL BE USED AT ALL ACTUATED TRAFFIC SIGNALS THAT ARE CAPABLE OF DETECTING BICYCLES.
2. A SYMBOL SHALL BE INSTALLED AT EACH ACTUATED APPROACH IN THE RIGHT-MOST LANE SERVING THE BICYCLIST'S DESTINATION, INCLUDING LEFT TURN LANES AND THROUGH LANES OR BIKE LANES.
3. THE SYMBOL SHALL BE INSTALLED WITH THE LEADING EDGE OF THE MARKING LOCATED ONE FOOT BEHIND THE LIMIT LINE (OR CROSSWALK).
4. CENTER SYMBOL IN LANE (ALIGNED W/ LANE ASSIGNMENT ARROW) EXCEPT:
   - 4.1. IN LANES WIDER THAN 12', CENTER SYMBOL 6' FROM THE LEFT LANE LINE (SEE BELOW).
   - 4.2. IN BIKE LANES, CENTER SYMBOL 2 FT FROM THE LEFT BIKE LANE LINE (DETAIL 39/39A, SEE BELOW).

FROM "CITY OF OAKLAND SUPPLEMENTAL DESIGN GUIDANCE - BICYCLIST DETECTION AT TRAFFIC-ACTUATED SIGNALS (JUNE 2010)"

PLACEMENT IN TRAVEL LANE



PLACEMENT IN BIKE LANE



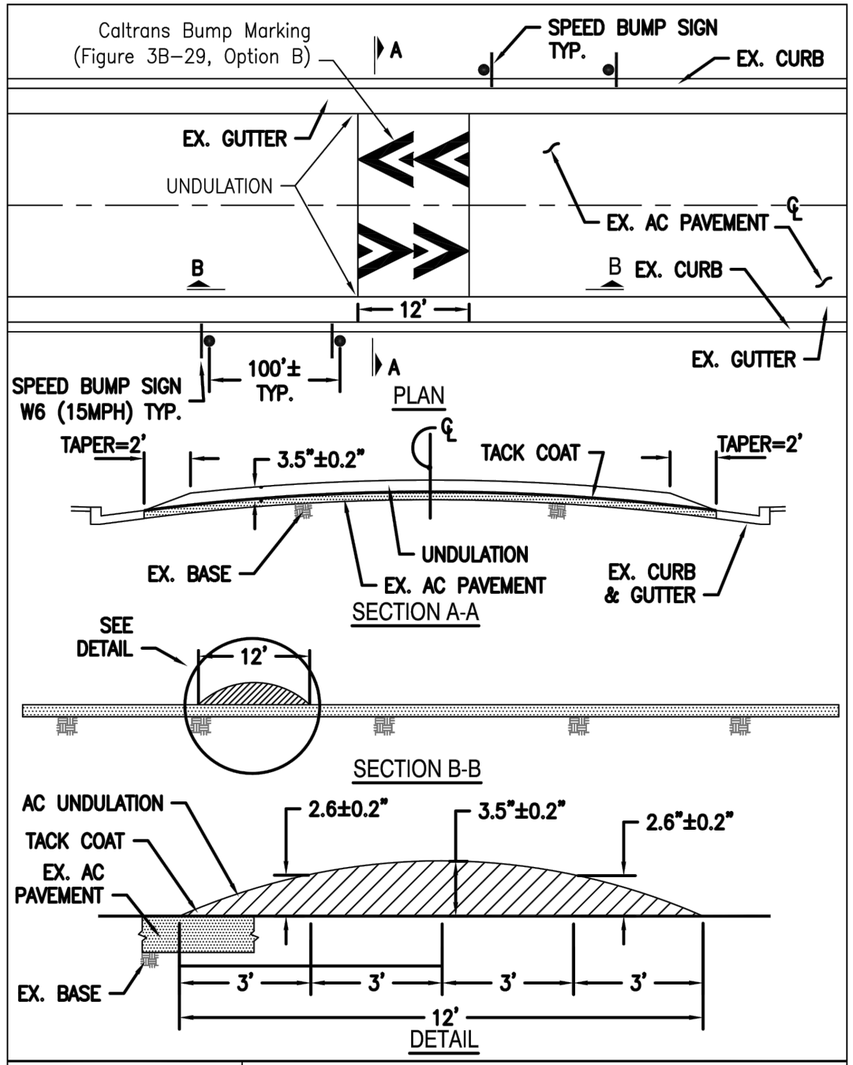
BICYCLE DETECTOR SYMBOL (CA MUTCD 2012, PAGE 9C-41, FIGURE 9C-7)

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER JIMMY MACH No. C65952 CIVIL STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING	CITY OF OAKLAND DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES 250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612 (510) 238-3437 * FAX (510) 238-7227 PROJECT NO. C427720	CIVIL ENGINEER JIMMY MACH RCE NO. C65952 EXP. 06/30/16 CHECKED BY JIMMY MACH DESIGNED BY AC DRAWN BY AC	No. / DATE / BY / REFERENCE	MISCELLANEOUS DETAILS	D-06	SCALE: 1"=40' HOR. VERT. DATE: APRIL 2016 SHEET NO. 7 OF 29	DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\008 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\D-03-07 Details.dwg PLOT DATE: 05-03-16



CITY OF OAKLAND | DESIGN AND CONSTRUCTION SERVICES DEPARTMENT

PAVEMENT UNDULATION
Speed Bump

TRANSPORTATION SERVICES MANAGER
DATE : APRIL 2016
REV. DATE :
DWG. T-6

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER	JIMMY MACH
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

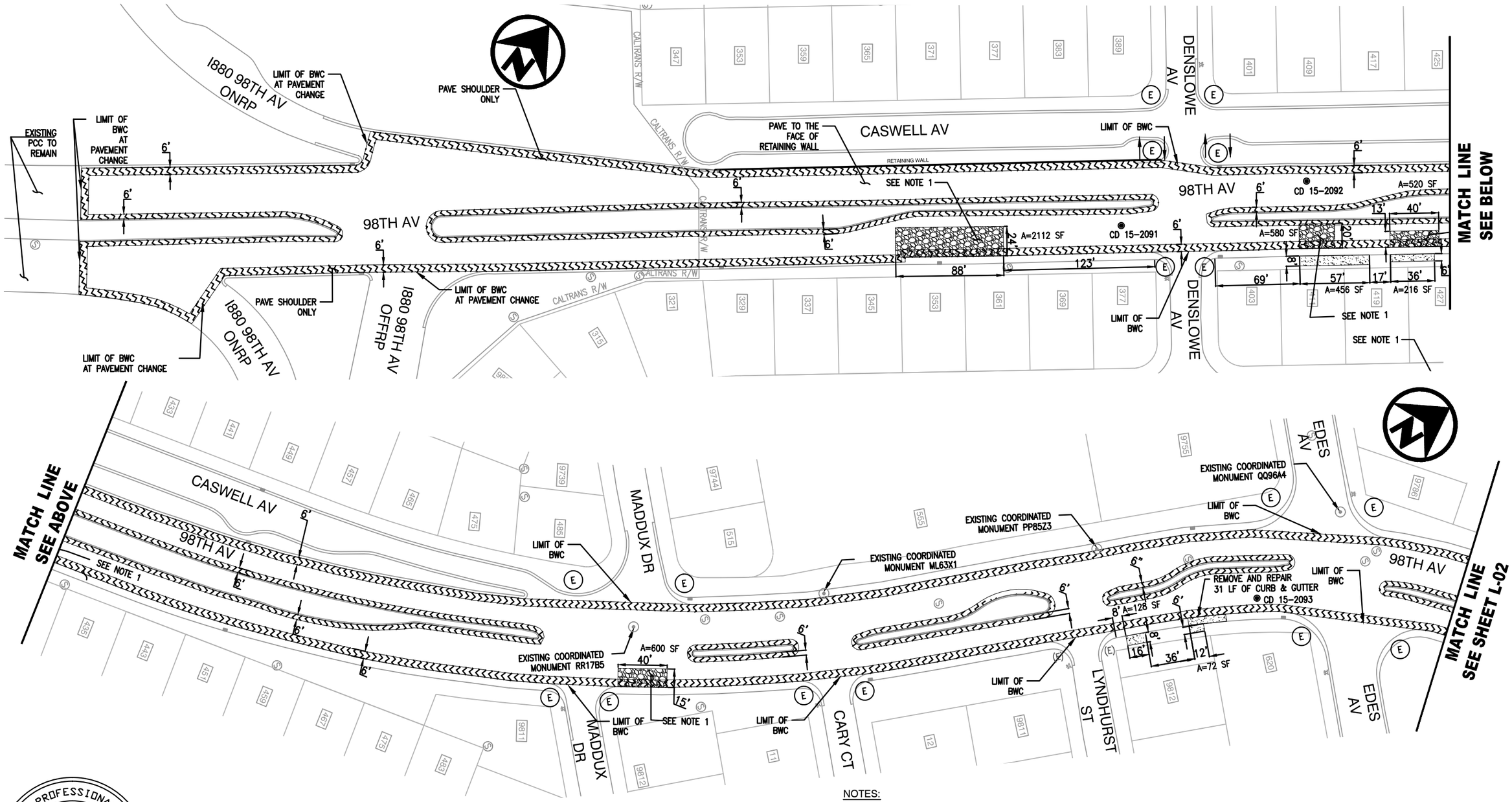
No.	DATE	BY	REFERENCE

MISCELLANEOUS DETAILS

D-07

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
8 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\D-03-07 Details.dwg
PLOT DATE: 05-03-16
PLOTTER BY: lucdmac



NOTES:

1. BASE REPAIR FINISH SHALL MATCH EXISTING PAVEMENT GRADE PRIOR TO APPLYING KEYCUT AND BONDED WEARING COURSE, BWC
2. FOR ALL GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS, SEE SHEET D-01
3. FOR CORE SAMPLE DATA, SEE SHEET D-05

40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

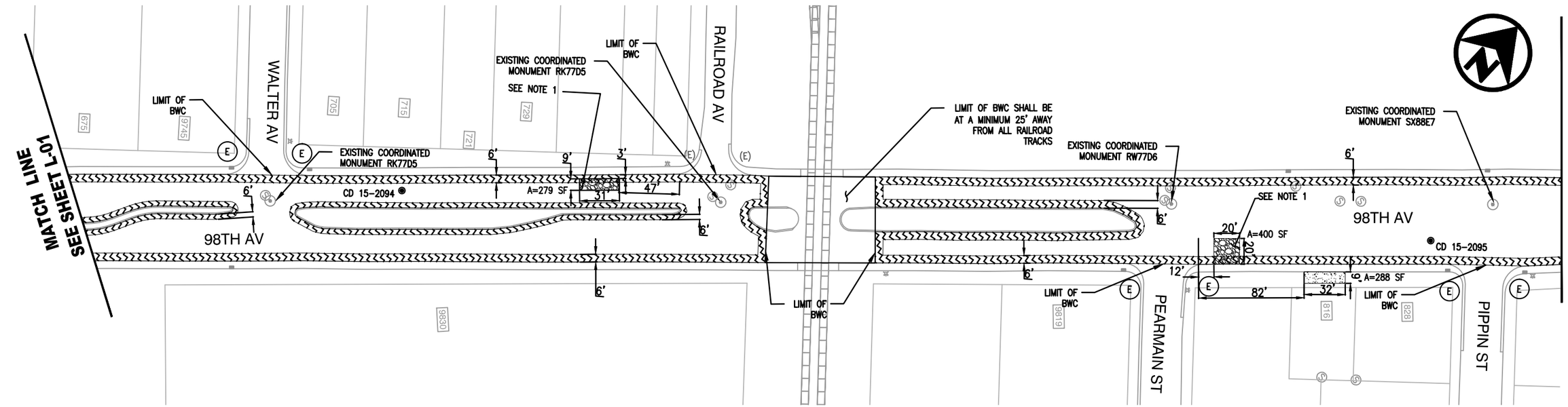
LAYOUT PLAN

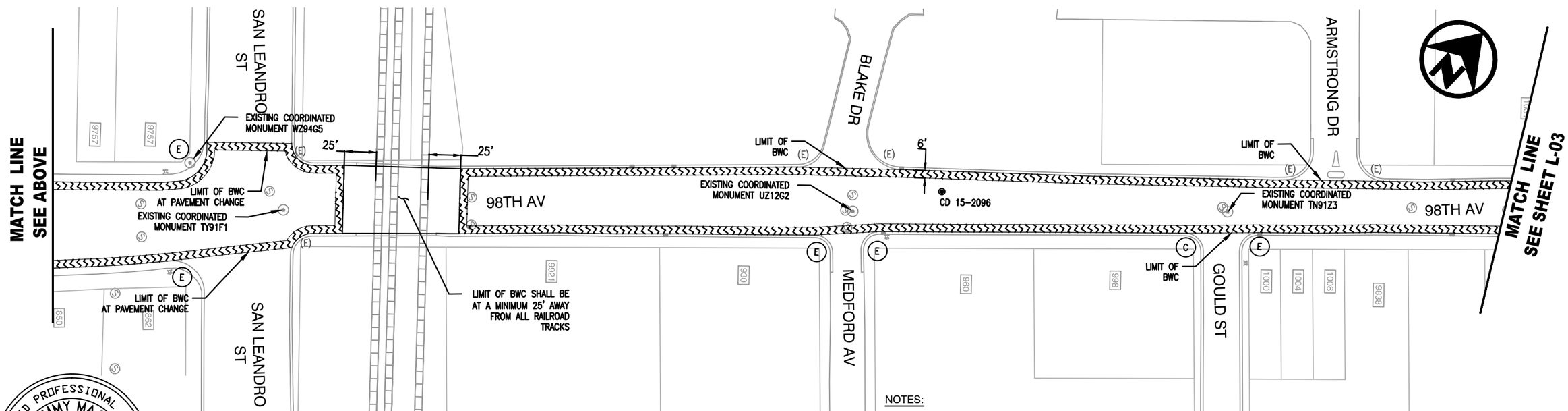
98TH AVE FROM THERMAL ST TO NB I880 ONRAMP

L-01

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 9 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-01 - 98th Ave.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee9mw





NOTES:

1. BASE REPAIR FINISH SHALL MATCH EXISTING PAVEMENT GRADE PRIOR TO APPLYING KEYCUT AND BONDED WEARING COURSE, BWC
2. FOR ALL GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS, SEE SHEET D-01
3. FOR CORE SAMPLE DATA, SEE SHEET D-05

40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
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CIVIL ENGINEER	JIMMY MACH
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

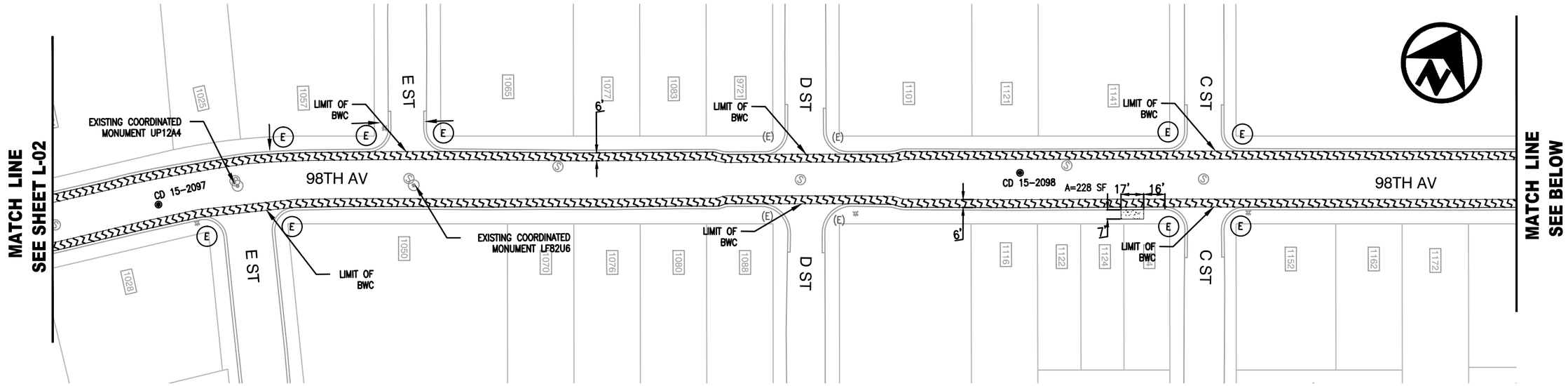
LAYOUT PLAN

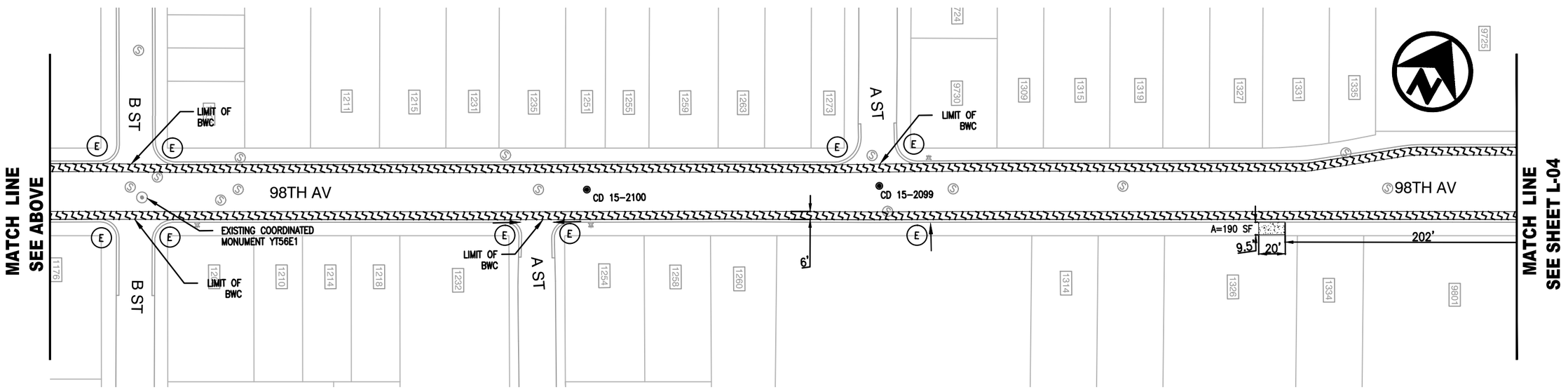
98TH AVE FROM
THERMAL ST TO NB I880 ONRAMP

L-02

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
10 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\919 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-01 - 98th Ave.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw





NOTES:

1. BASE REPAIR FINISH SHALL MATCH EXISTING PAVEMENT GRADE PRIOR TO APPLYING KEYCUT AND BONDED WEARING COURSE, BWC
2. FOR ALL GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS, SEE SHEET D-01
3. FOR CORE SAMPLE DATA, SEE SHEET D-05

40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

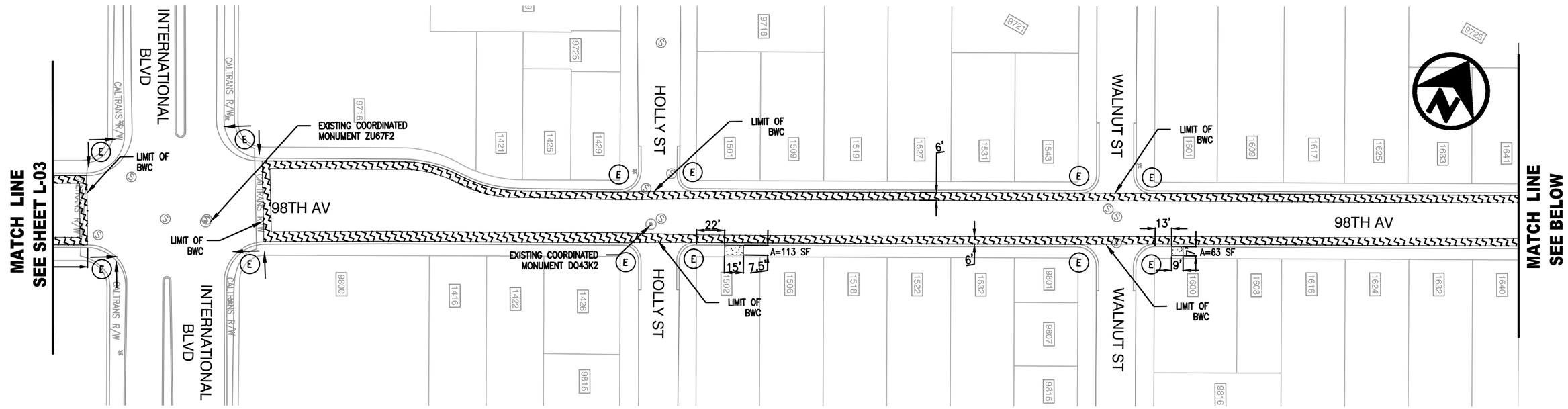
LAYOUT PLAN

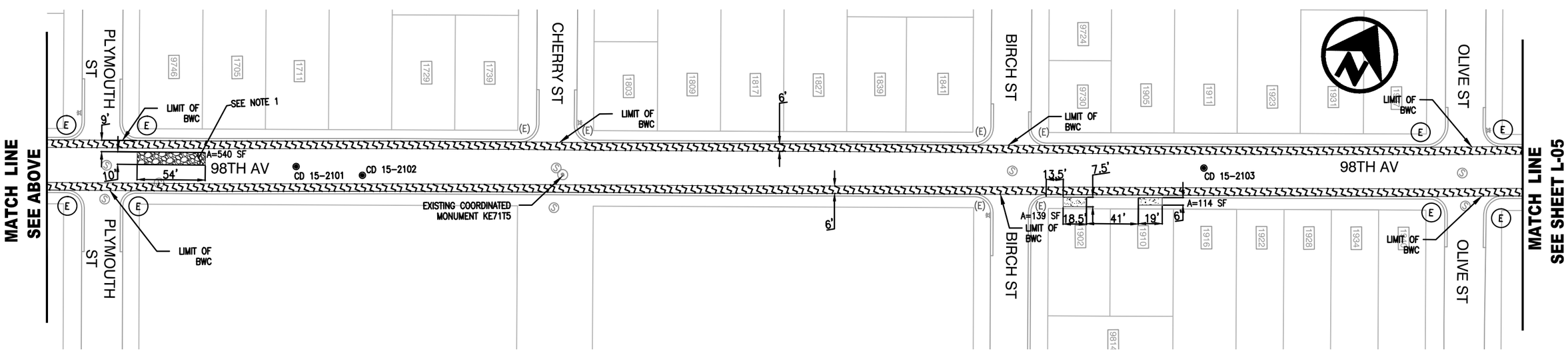
98TH AVE FROM
THERMAL ST TO NB I880 ONRAMP

L-03

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
11 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-01 - 98th Ave.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw





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40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
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CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
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250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

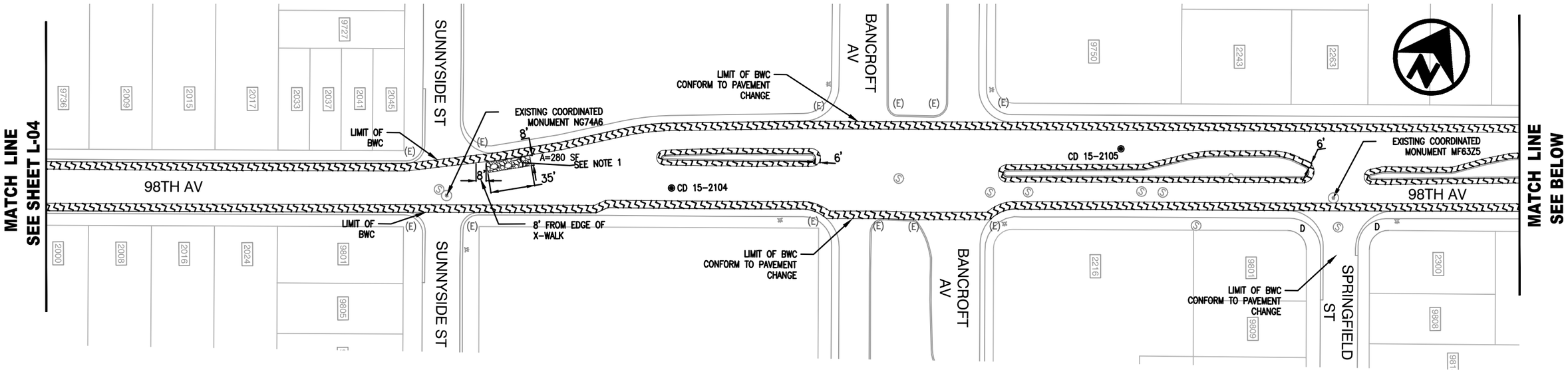
LAYOUT PLAN

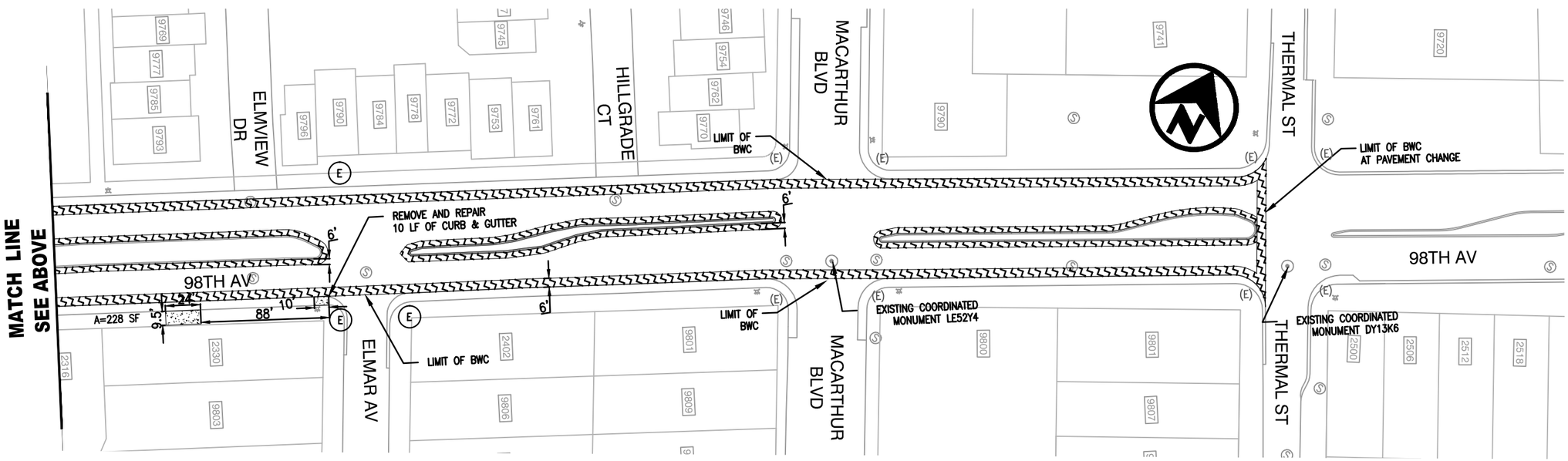
98TH AVE FROM
THERMAL ST TO NB I880 ONRAMP

L-04

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
12 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-01 - 98th Ave.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lleb9mw





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(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

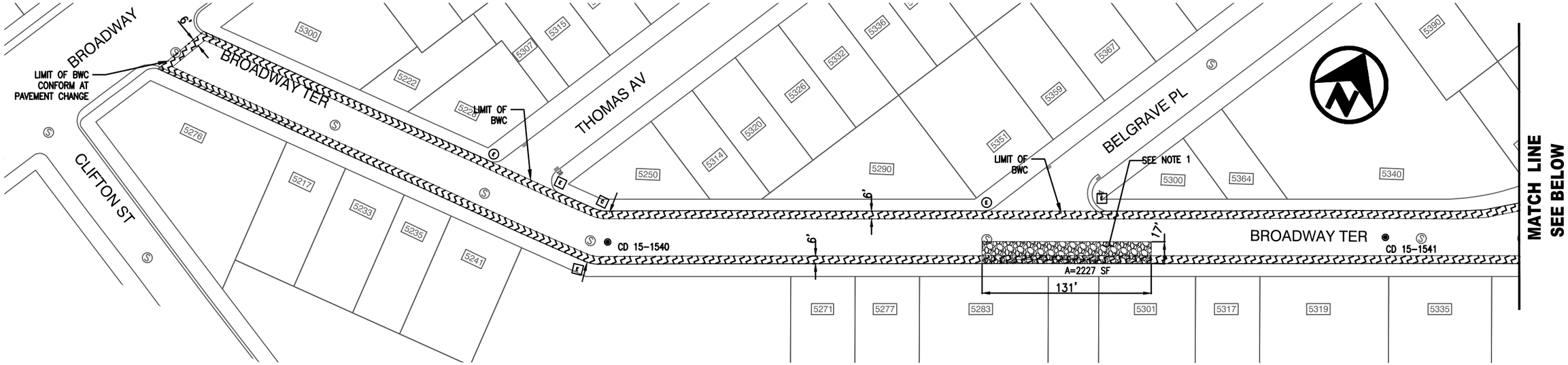
LAYOUT PLAN

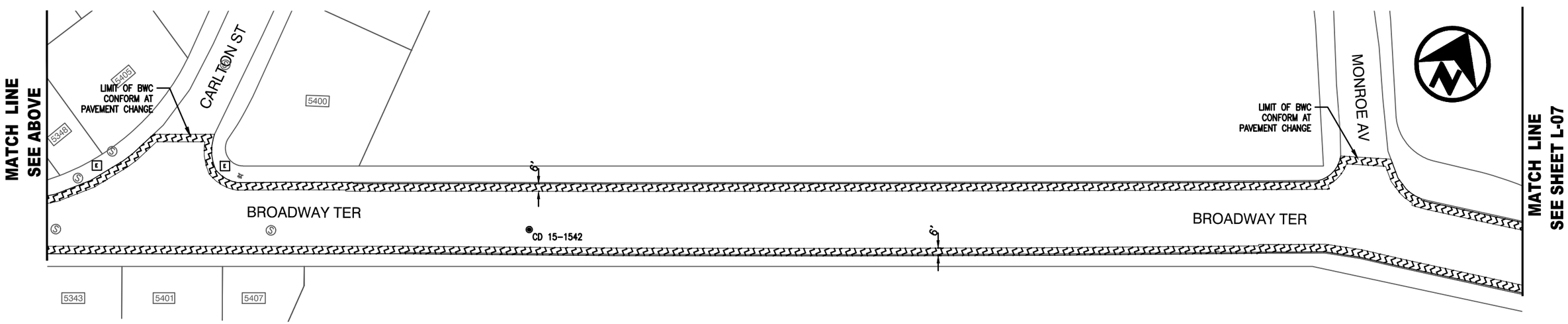
98TH AVE FROM
THERMAL ST TO NB I880 ONRAMP

L-05

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
13 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-01 - 98th Ave.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw





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CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

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(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

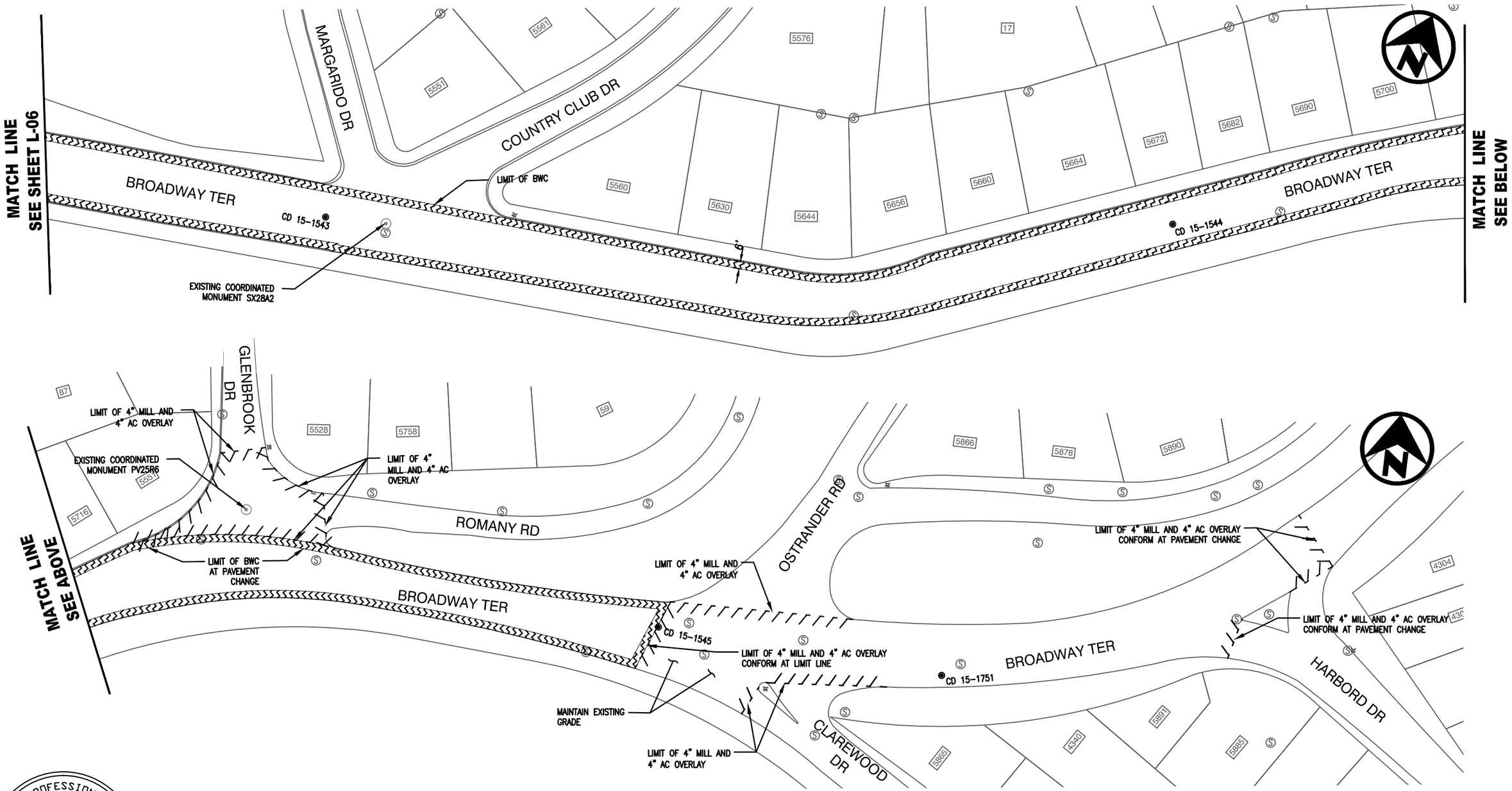
LAYOUT PLAN

BROADWAY TERRACE
FROM BROADWAY TO HARBORD DR

L-06

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
14 OF 29

DRAWING NAME: \\PW\FILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-06 - Broadway Terrace.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee9mw



NOTES:

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40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
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CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
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(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

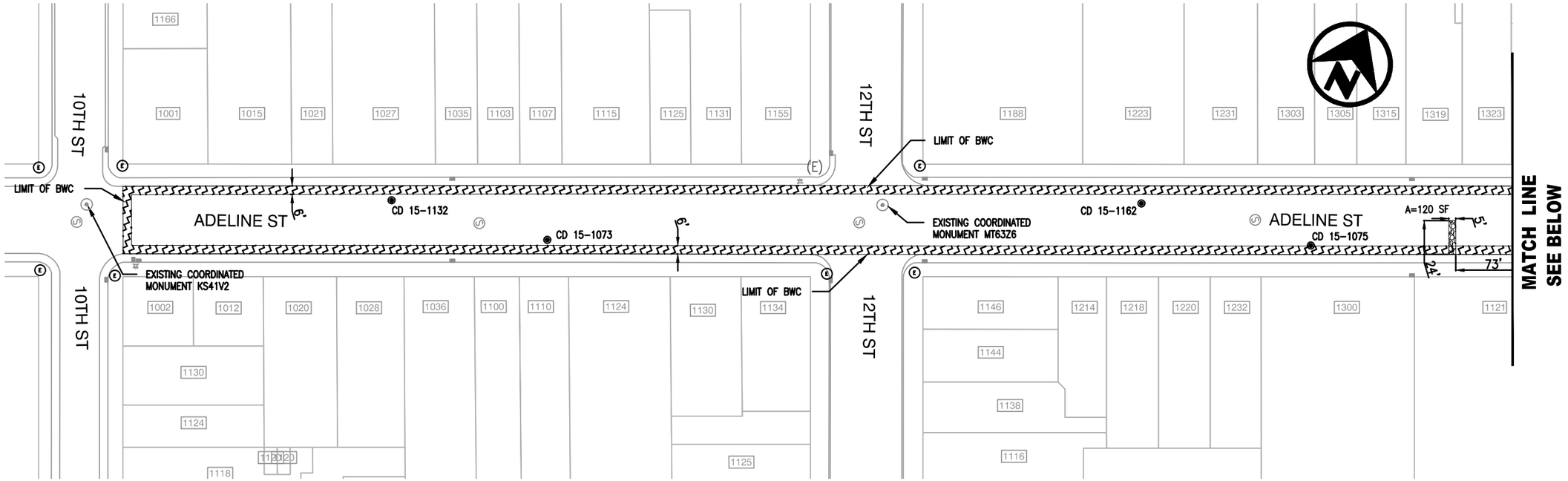
LAYOUT PLAN

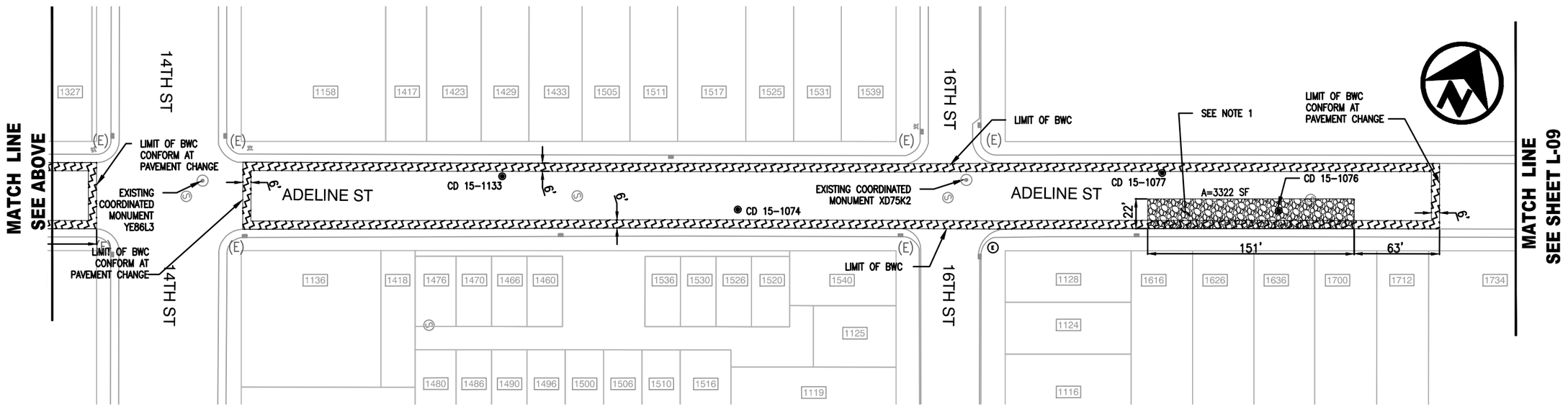
BROADWAY TERRACE
FROM BROADWAY TO HARBORD DR

L-07

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
15 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-06 - Broadway Terrace.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee9mw





NOTES:

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CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

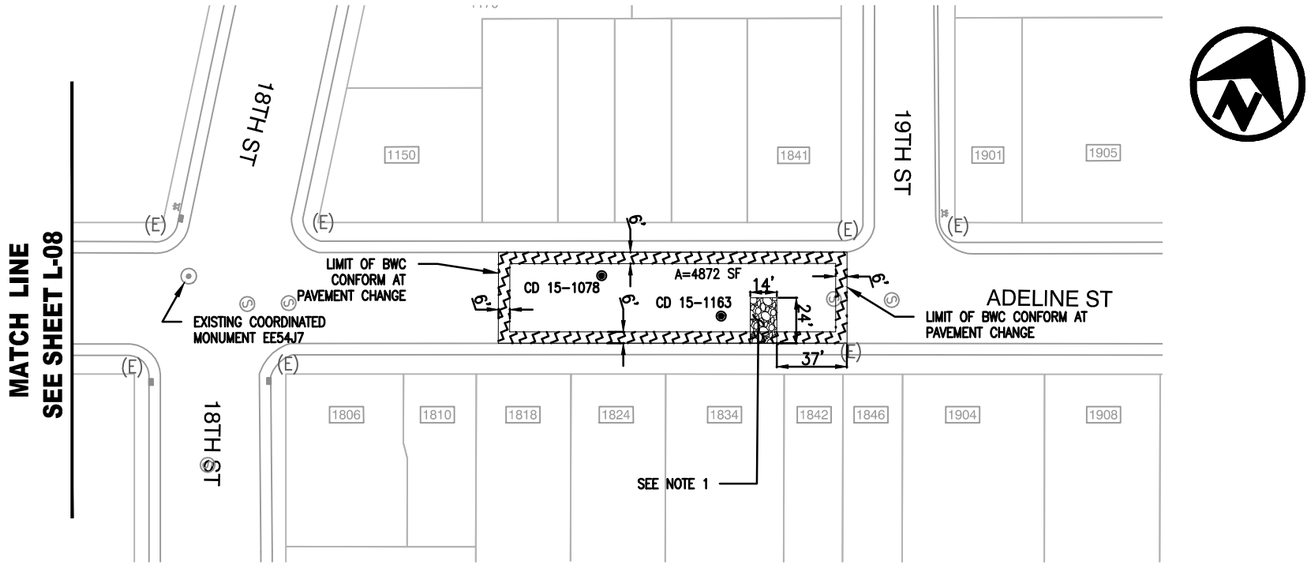
LAYOUT PLAN

ADELINE STREET
FROM 10 ST TO 19 ST

L-08

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
16 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-08 - Adeline.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lleb9mw



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40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

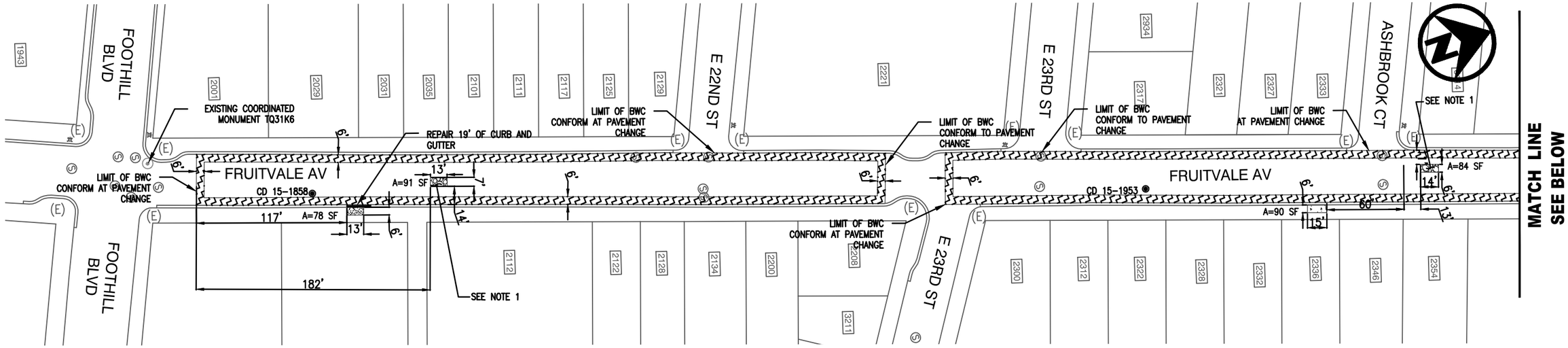
LAYOUT PLAN

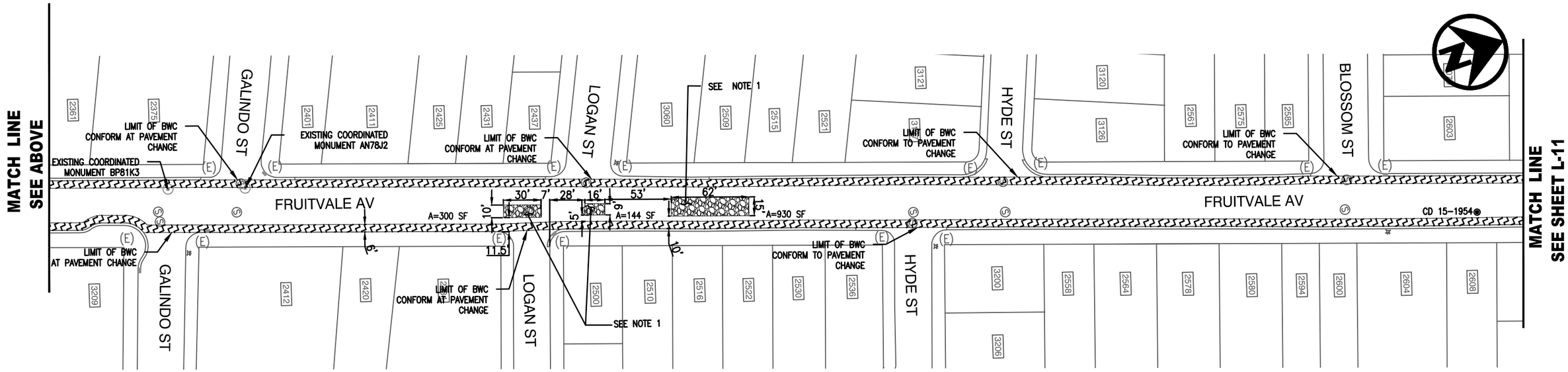
ADELINE STREET
FROM 10 ST TO 19 ST

L-09

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
17 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-08 - Adeline.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lseibmw





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3. FOR CORE SAMPLE DATA, SEE SHEET D-05
4. NO PAVING OPERATIONS WILL OCCUR OVER DECORATED CROSSWALKS

40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
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CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

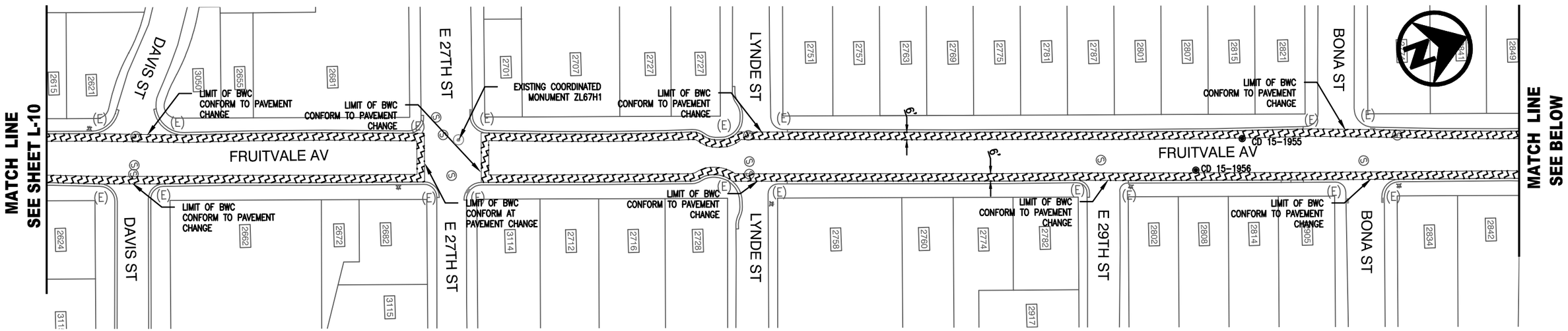
LAYOUT PLAN

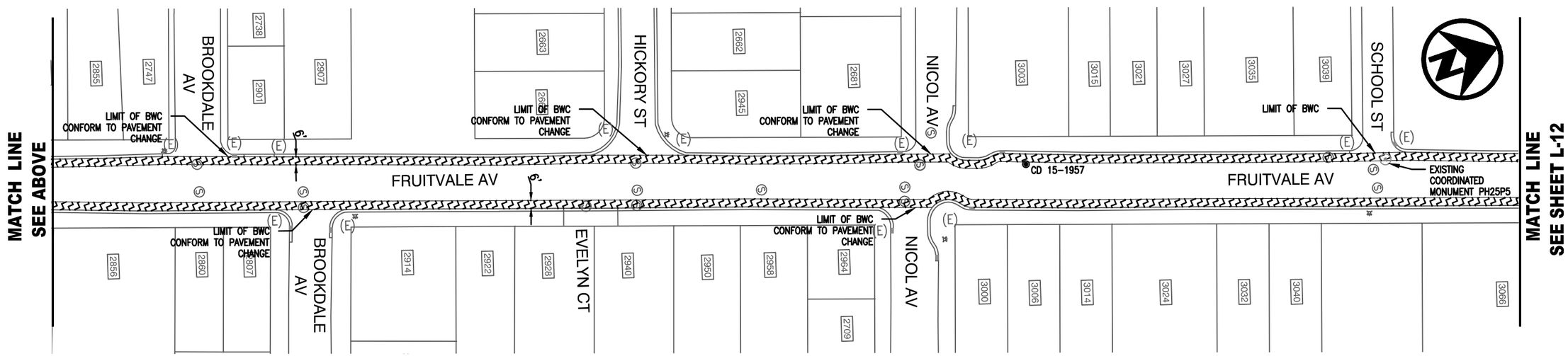
FRUITVALE AVE
FROM FOOTHILL BLVD TO HAROLD ST

L-10

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 18 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-10 - Fruitvale.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lseibmw





NOTES:

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2. FOR CORE SAMPLE DATA, SEE SHEET D-05
3. NO PAVING OPERATIONS WILL OCCUR OVER DECORATED CROSSWALKS

40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

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CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

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250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH	
RCE NO. C65952 EXP. 06/30/16	
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

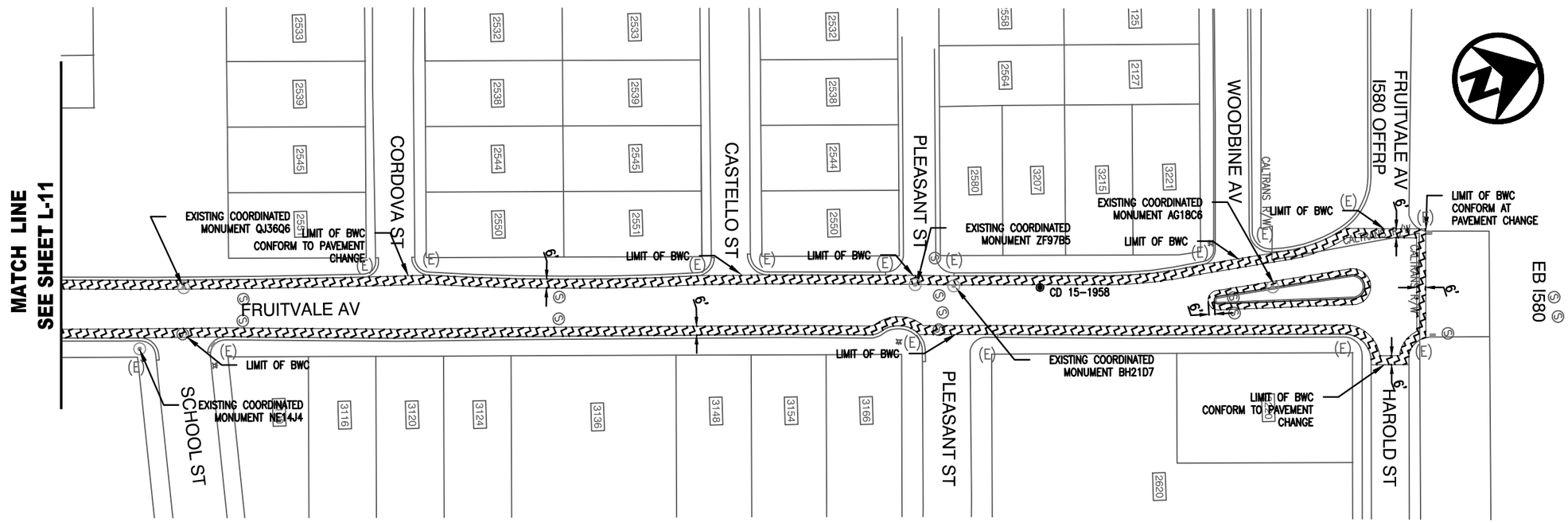
LAYOUT PLAN

FRUITVALE AVE
FROM FOOTHILL BLVD TO HAROLD ST

L-11

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
19 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\919 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-10 - Fruitvale.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw



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40 0 40 80
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CIVIL ENGINEER JIMMY MACH	
RCE NO. C65952 EXP. 06/30/16	
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

LAYOUT PLAN

FRUITVALE AVE
FROM FOOTHILL BLVD TO HAROLD ST

L-12

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
20 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-10 - Fruitvale.dwg
PLOT DATE: 05-03-16
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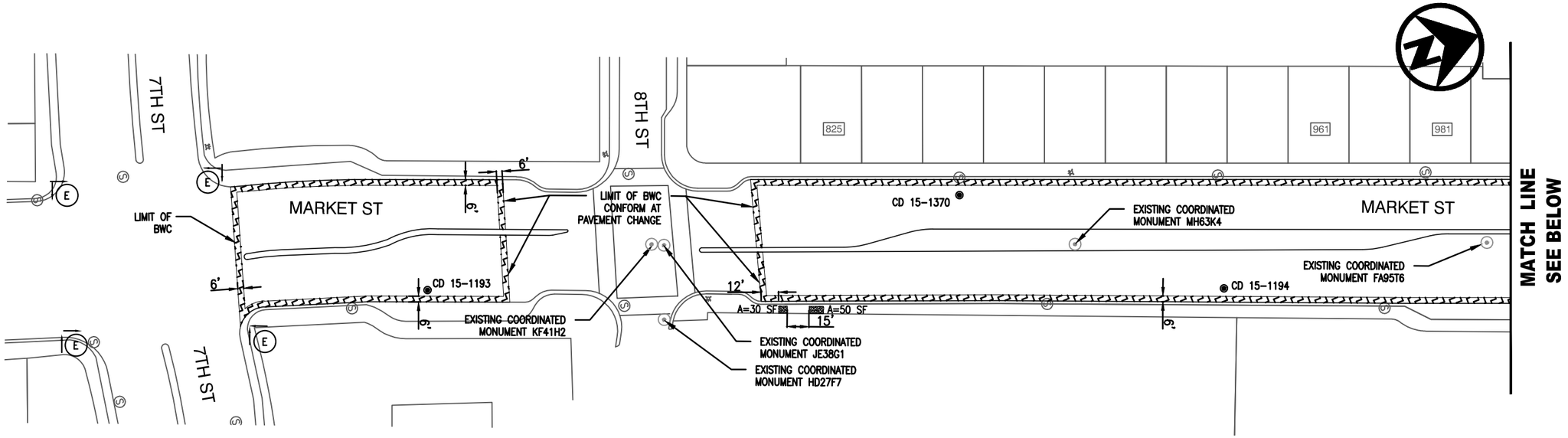

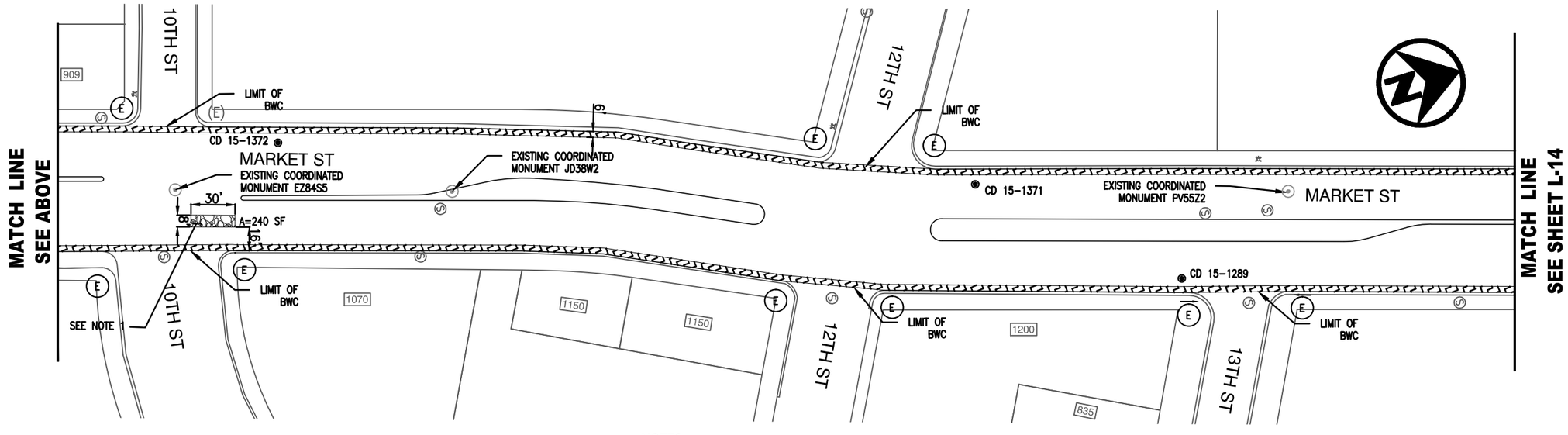

NOTES:

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CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

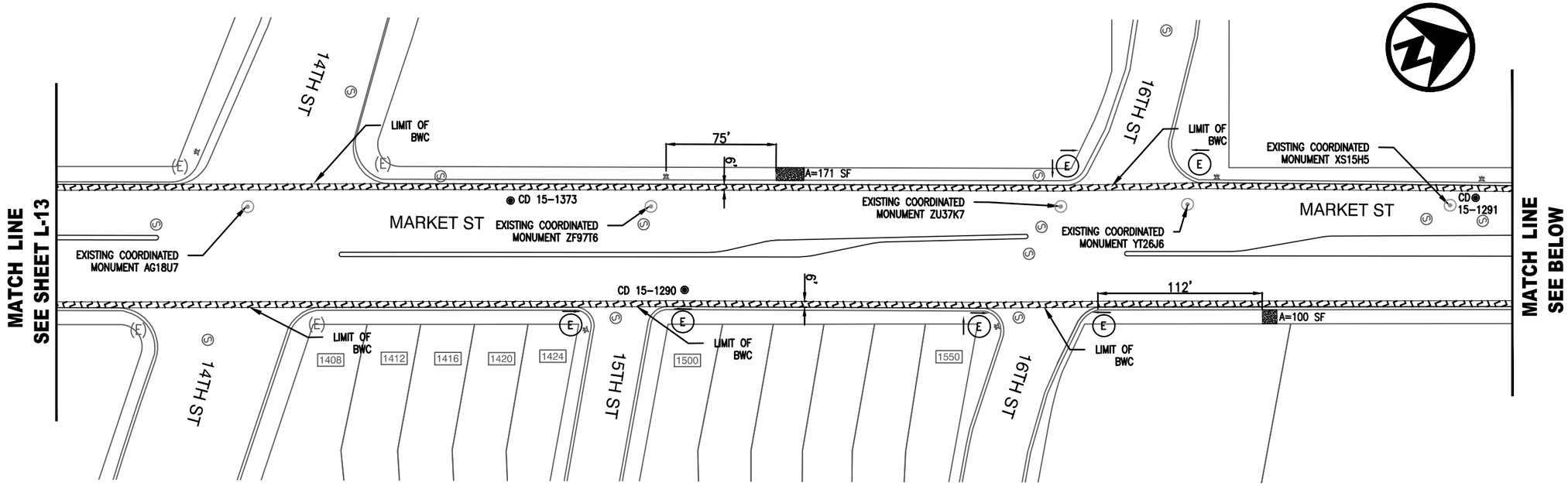
LAYOUT PLAN

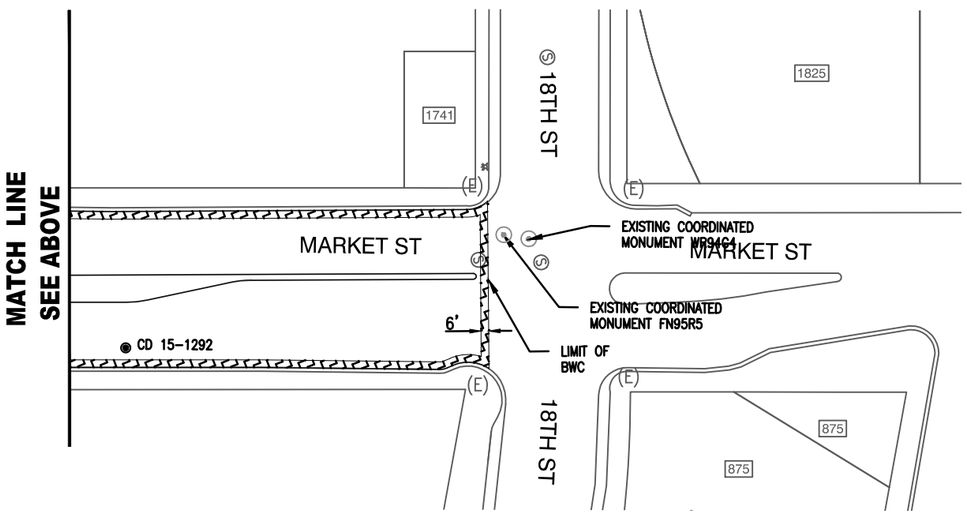
MARKET STREET
FROM 7TH ST TO 18TH ST

L-13

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
21 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-13 - Market.dwg
PLOT DATE: 05-03-16
PLOTTED BY: tlee9mw





NOTES:

1. FOR ALL GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS, SEE SHEET D-01
2. FOR CORE SAMPLE DATA, SEE SHEET D-05

40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

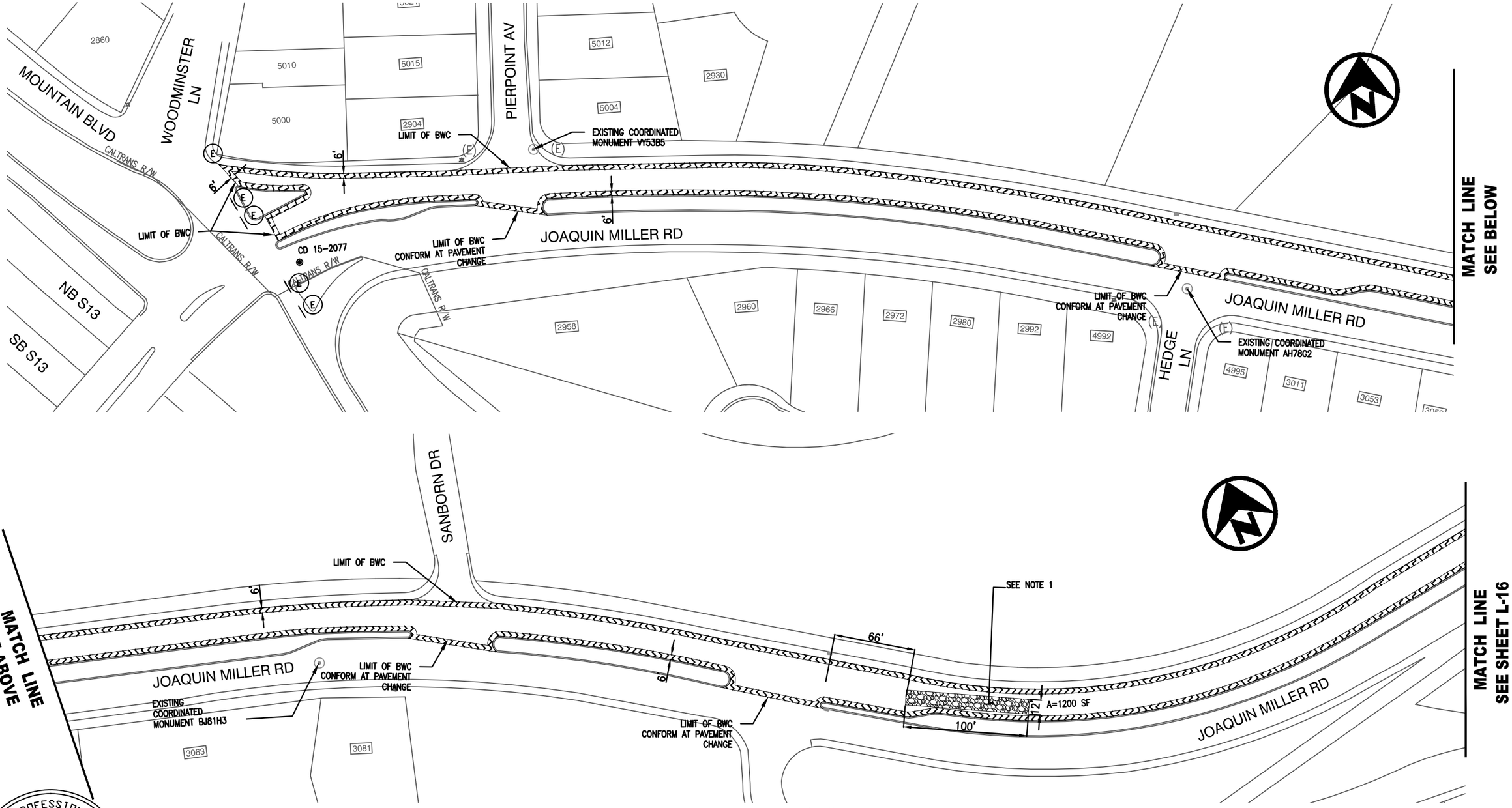
LAYOUT PLAN

MARKET STREET
FROM 7TH ST TO 18TH ST

L-14

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
22 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-13 - Market.dwg
PLOT DATE: 05-03-16
PLOTTED BY: tlee9mw



NOTES:

1. BASE REPAIR FINISH SHALL MATCH EXISTING PAVEMENT GRADE PRIOR TO APPLYING KEYCUT AND BONDED WEARING COURSE, BWC
2. FOR ALL GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SYMBOLS, SEE SHEET D-01
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40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

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CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

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250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH	
RCE NO. C65952 EXP. 06/30/16	
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

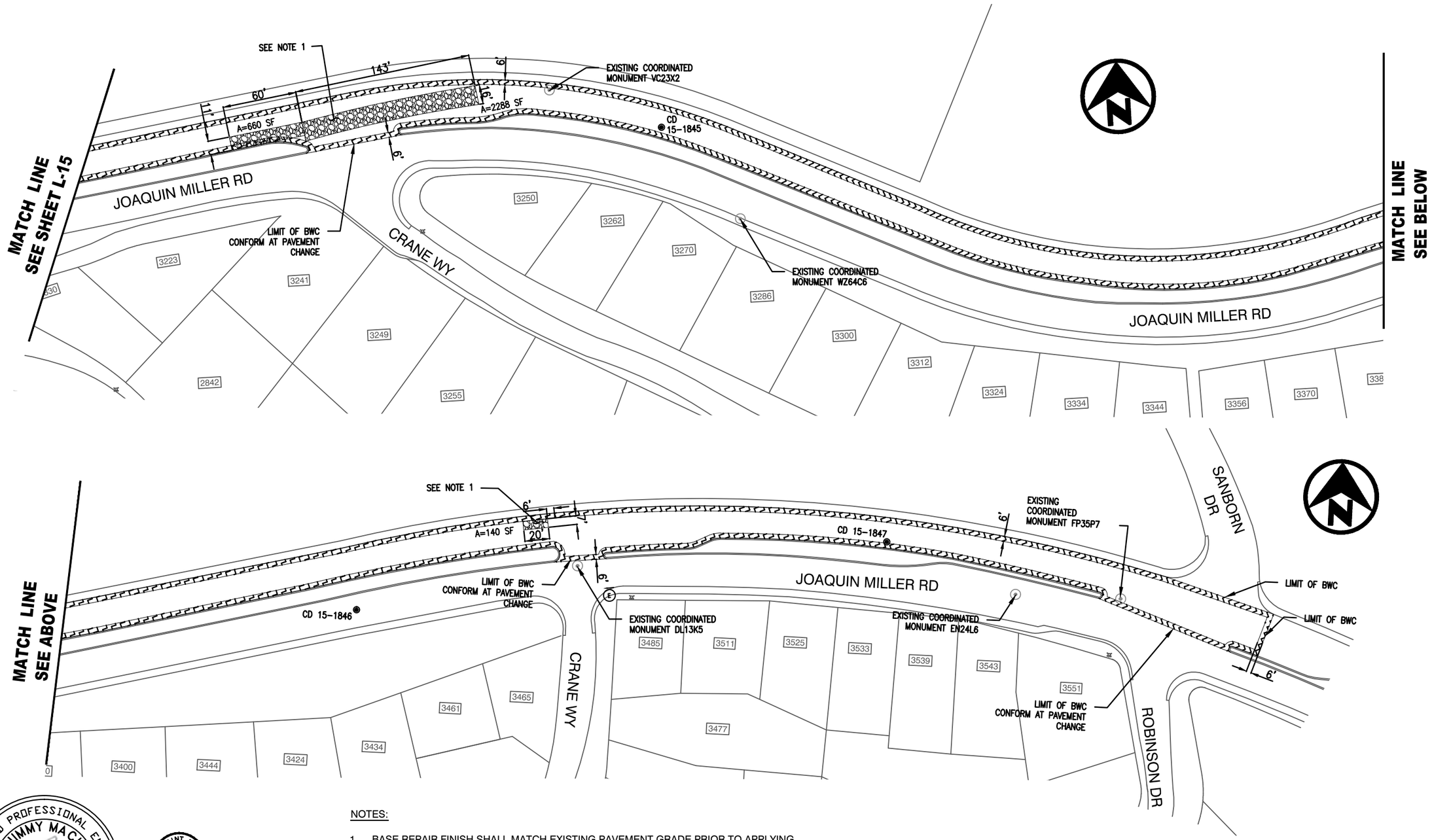
LAYOUT PLAN

JOAQUIN MILLER ROAD (NORTH BOUND) FROM MONTEREY BLVD TO SANBORN DR

L-15

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 23 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-15 - JOAQUIN MILLER.dwg
PLOT DATE: 05-03-16
PLOTTED BY: tlee9mw



NOTES:

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40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

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CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER	JIMMY MACH
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

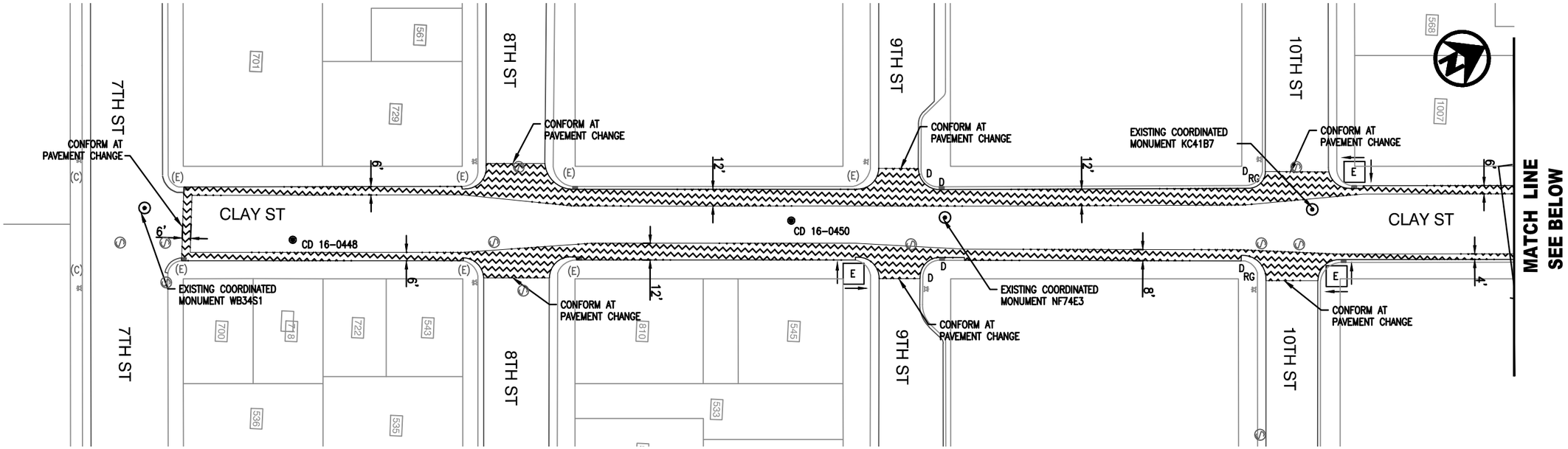
LAYOUT PLAN

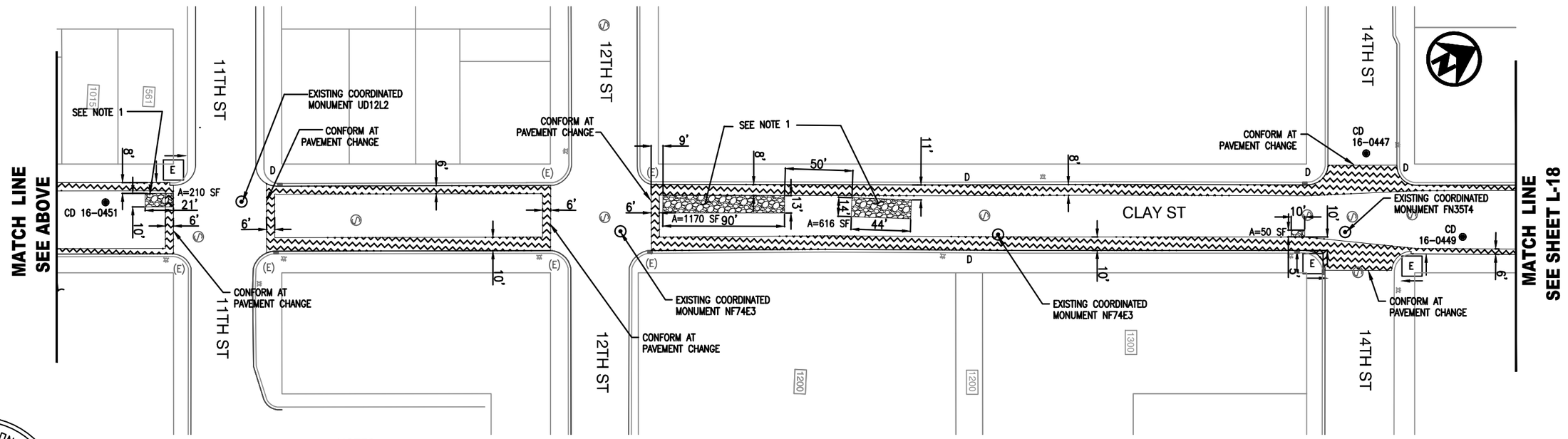
JOAQUIN MILLER ROAD (NORTH BOUND)
FROM MONTEREY BLVD TO SANBORN DR

L-16

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
24 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\919 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-15 - JOAQUIN MILLER.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw





NOTES:

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40 0 40 80
SCALE IN FEET

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CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
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250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE
RCE NO. C65952	EXP. 06/30/16				
CHECKED BY	JIMMY MACH				
DESIGNED BY	AC				
DRAWN BY	AC				

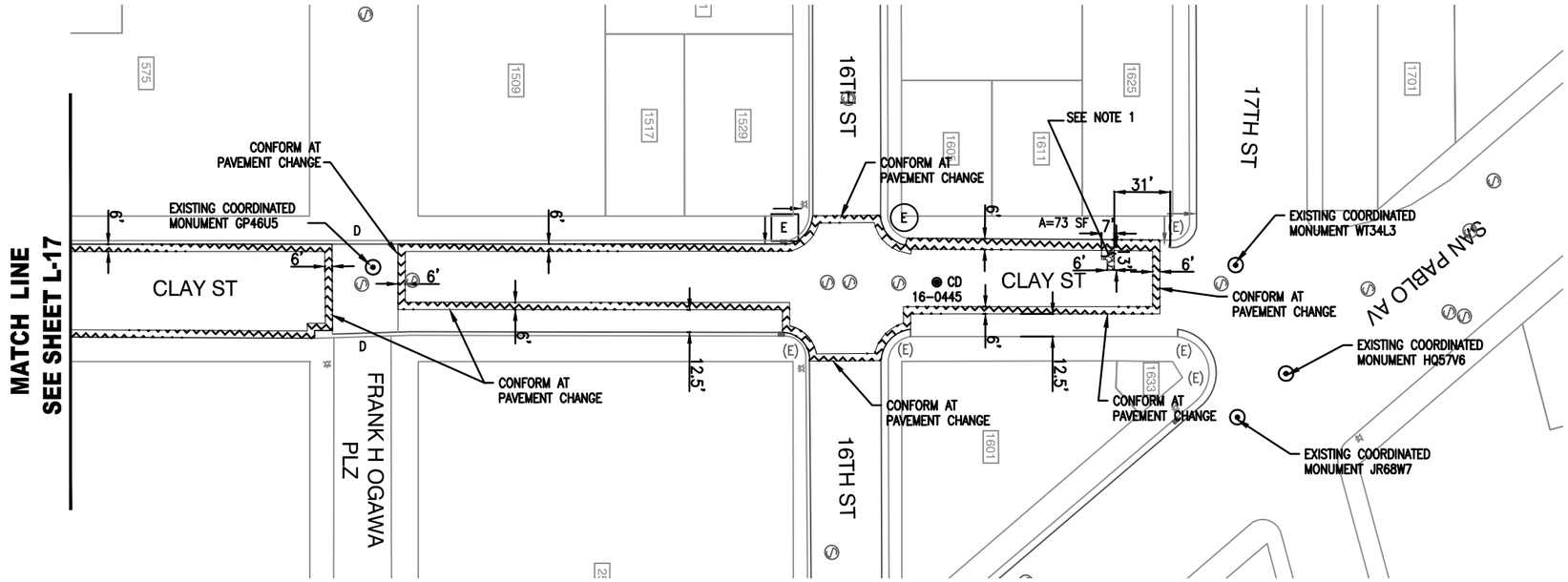
LAYOUT PLAN

CLAY ST FROM
7TH ST TO SAN PABLO AVE

L-17

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
25 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-17_CLAY ST.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw



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40 0 40 80
SCALE IN FEET

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

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CITYWIDE PREVENTIVE
MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

LAYOUT PLAN

CLAY ST FROM
7TH ST TO SAN PABLO AVE

L-18

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
26 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-17_CLAY ST.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mv

NOTES:

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3. FOR CORE SAMPLE DATA, SEE SHEET D-05
4. FOR ALL STRIPPING, PAVEMENT DELINATION, AND TRAFFIC MARKINGS, SEE MARTIN LUTHER KING JR. WAY STREET SCAPE PROJECT, CITY PROJECT NO. P414230
5. CONTRACTOR TO MAINTAIN EXSITING GUTTER FLOW LINE ALONG MLK JR WAY

REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

THIS PRINT REDUCED HALF SIZE

40 0 40 80
SCALE IN FEET

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER	JIMMY MACH
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

LAYOUT PLAN

MARTIN LUTHER KING JR WAY FROM 27TH ST TO W. MACARTHUR BLVD

L-19

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO. 27 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-19_MLK ST.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lleb9mw

NOTES:

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5. CONTRACTOR TO MAINTAIN EXSITING GUTTER FLOW LINE ALONG MLK JR WAY

REGISTERED PROFESSIONAL ENGINEER
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40 0 40 80
SCALE IN FEET

CITYWIDE PREVENTIVE
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(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER JIMMY MACH		No.	DATE	BY	REFERENCE	
RCE NO. C65952	EXP. 06/30/16					
CHECKED BY	JIMMY MACH					
DESIGNED BY	AC					
DRAWN BY	AC					

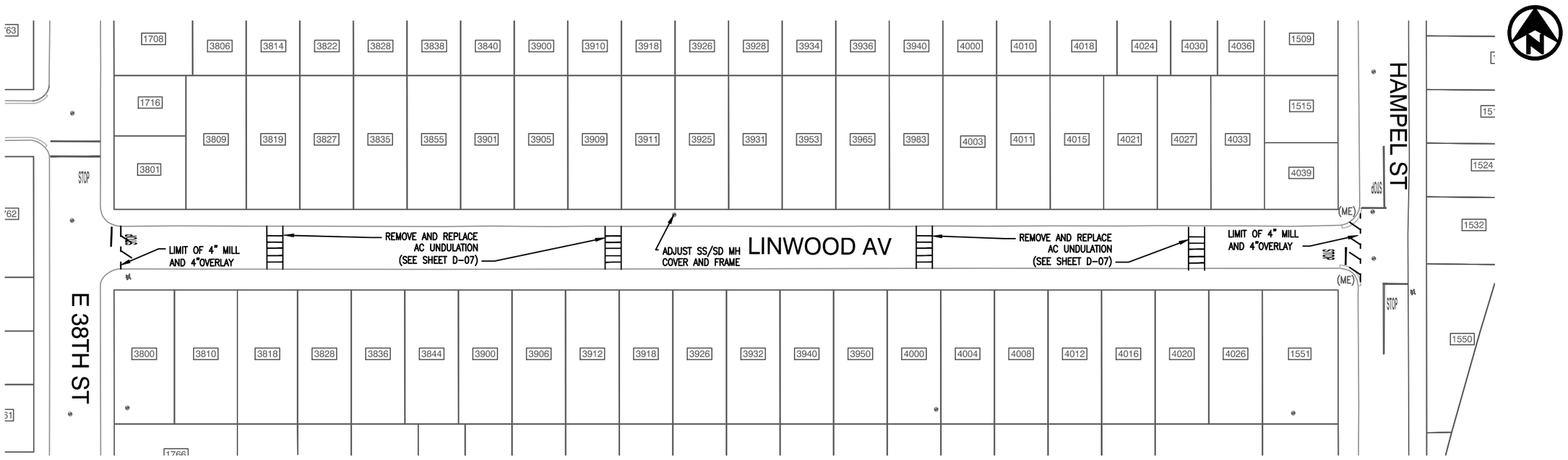
LAYOUT PLAN

MARTIN LUTHER KING JR WAY FROM
27TH ST TO W. MACARTHUR BLVD

L-20

SCALE: 1"=40'
HOR.
VERT.
DATE: APRIL 2016
SHEET NO.
28 OF 29

DRAWING NAME: \\PWAFILE\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-19_MLK ST.dwg
PLOT DATE: 05-03-16
PLOTTED BY: lee@mw



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REGISTERED PROFESSIONAL ENGINEER
JIMMY MACH
No. C65952
CIVIL
STATE OF CALIFORNIA

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40 0 40 80
SCALE IN FEET

CITYWIDE PREVENTIVE MAINTENANCE RESURFACING

CITY OF OAKLAND
DEPARTMENT OF ENGINEERING AND CONSTRUCTION SERVICES
250 FRANK OGAWA PLAZA, SUITE 4314 * OAKLAND, CA 94612
(510) 238-3437 * FAX (510) 238-7227
PROJECT NO. C427720

CIVIL ENGINEER	JIMMY MACH
RCE NO. C65952	EXP. 06/30/16
CHECKED BY	JIMMY MACH
DESIGNED BY	AC
DRAWN BY	AC

No.	DATE	BY	REFERENCE

LAYOUT PLAN

LINWOOD AVENUE FROM E 38TH STREET TO HAMPLE STREET

L-21

SCALE: HOR. 1"=40' VERT.
DATE: APRIL 2016
SHEET NO. 29 OF 29

DRAWING NAME: \\PWAFILE2\Engineering\Pavement_Management\003 Projects\019 C427720 Citywide Preventive Maintenance Resurfacing\002 Design\Plans\Sheets\L-21-Linwood Ave.dwg
PLOT DATE: 06-03-16
PLOTTED BY: RGuo9J