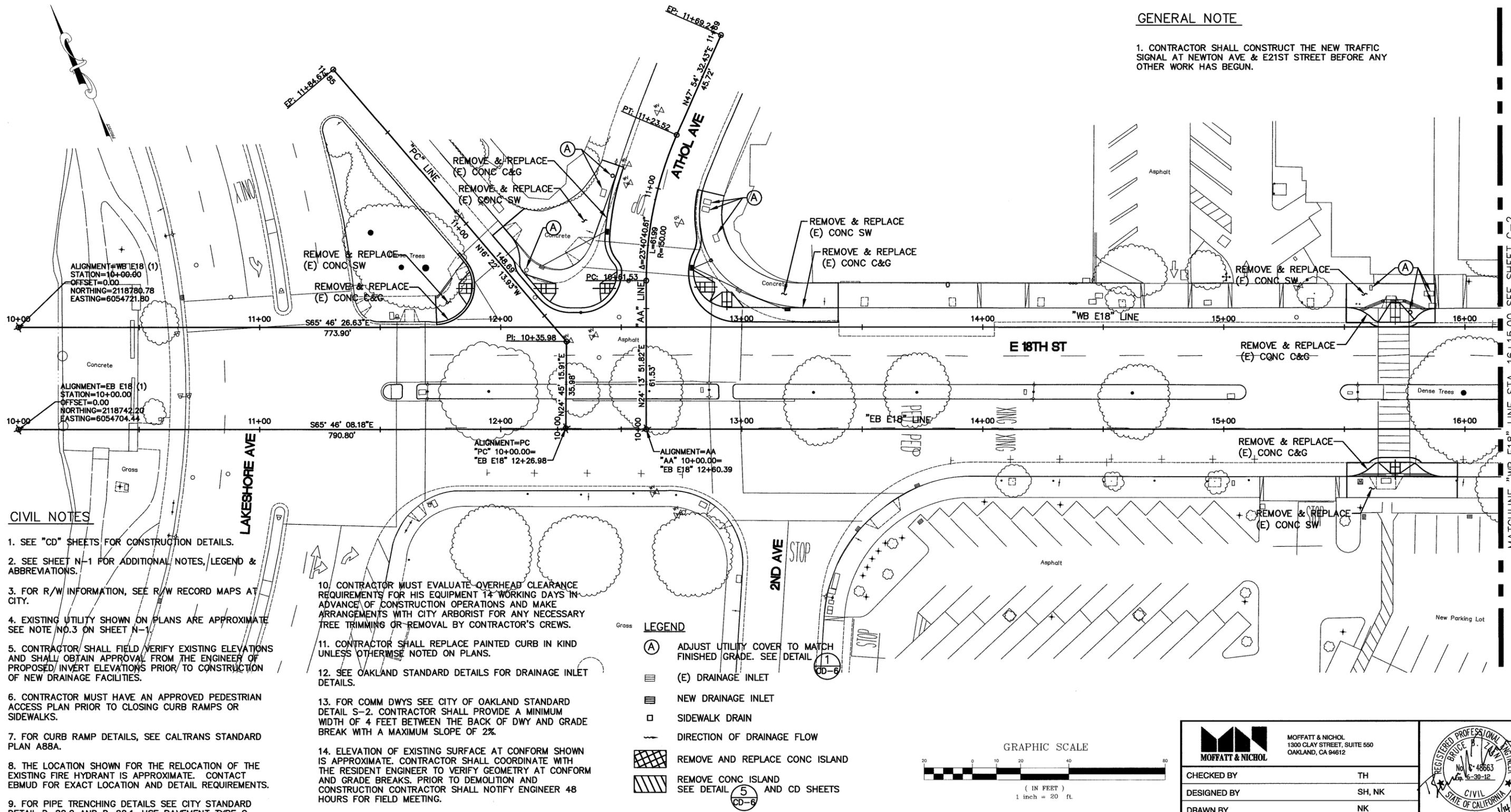


GENERAL NOTE

1. CONTRACTOR SHALL CONSTRUCT THE NEW TRAFFIC SIGNAL AT NEWTON AVE & E21ST STREET BEFORE ANY OTHER WORK HAS BEGUN.



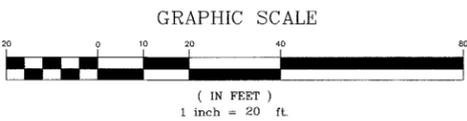
CIVIL NOTES

1. SEE "CD" SHEETS FOR CONSTRUCTION DETAILS.
2. SEE SHEET N-1 FOR ADDITIONAL NOTES, LEGEND & ABBREVIATIONS.
3. FOR R/W INFORMATION, SEE R/W RECORD MAPS AT CITY.
4. EXISTING UTILITY SHOWN ON PLANS ARE APPROXIMATE. SEE NOTE NO.3 ON SHEET N-1.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND SHALL OBTAIN APPROVAL FROM THE ENGINEER OF PROPOSED/INVERT ELEVATIONS PRIOR TO CONSTRUCTION OF NEW DRAINAGE FACILITIES.
6. CONTRACTOR MUST HAVE AN APPROVED PEDESTRIAN ACCESS PLAN PRIOR TO CLOSING CURB RAMPS OR SIDEWALKS.
7. FOR CURB RAMP DETAILS, SEE CALTRANS STANDARD PLAN A88A.
8. THE LOCATION SHOWN FOR THE RELOCATION OF THE EXISTING FIRE HYDRANT IS APPROXIMATE. CONTACT EBMUD FOR EXACT LOCATION AND DETAIL REQUIREMENTS.
9. FOR PIPE TRENCHING DETAILS SEE CITY STANDARD DETAIL D-22.0 AND D-22.1. USE PAVEMENT TYPE C.

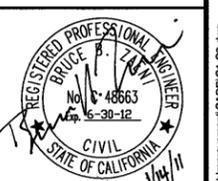
10. CONTRACTOR MUST EVALUATE OVERHEAD CLEARANCE REQUIREMENTS FOR HIS EQUIPMENT 14 WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS AND MAKE ARRANGEMENTS WITH CITY ARBORIST FOR ANY NECESSARY TREE TRIMMING OR REMOVAL BY CONTRACTOR'S CREWS.
11. CONTRACTOR SHALL REPLACE PAINTED CURB IN KIND UNLESS OTHERWISE NOTED ON PLANS.
12. SEE OAKLAND STANDARD DETAILS FOR DRAINAGE INLET DETAILS.
13. FOR COMM DWYS SEE CITY OF OAKLAND STANDARD DETAIL S-2. CONTRACTOR SHALL PROVIDE A MINIMUM WIDTH OF 4 FEET BETWEEN THE BACK OF DWY AND GRADE BREAK WITH A MAXIMUM SLOPE OF 2%.
14. ELEVATION OF EXISTING SURFACE AT CONFORM SHOWN IS APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO VERIFY GEOMETRY AT CONFORM AND GRADE BREAKS. PRIOR TO DEMOLITION AND CONSTRUCTION CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS FOR FIELD MEETING.

LEGEND

- (A) ADJUST UTILITY COVER TO MATCH FINISHED GRADE. SEE DETAIL CD-6
- (E) DRAINAGE INLET
- NEW DRAINAGE INLET
- SIDEWALK DRAIN
- DIRECTION OF DRAINAGE FLOW
- REMOVE AND REPLACE CONC ISLAND
- REMOVE CONC ISLAND SEE DETAIL CD-5 AND CD SHEETS



MOFFATT & NICHOL 1300 CLAY STREET, SUITE 550 OAKLAND, CA 94612	
CHECKED BY	TH
DESIGNED BY	SH, NK
DRAWN BY	NK



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E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

CIVIL LAYOUT

SHEET 1 OF 3

PROJECT NO. **P233285**

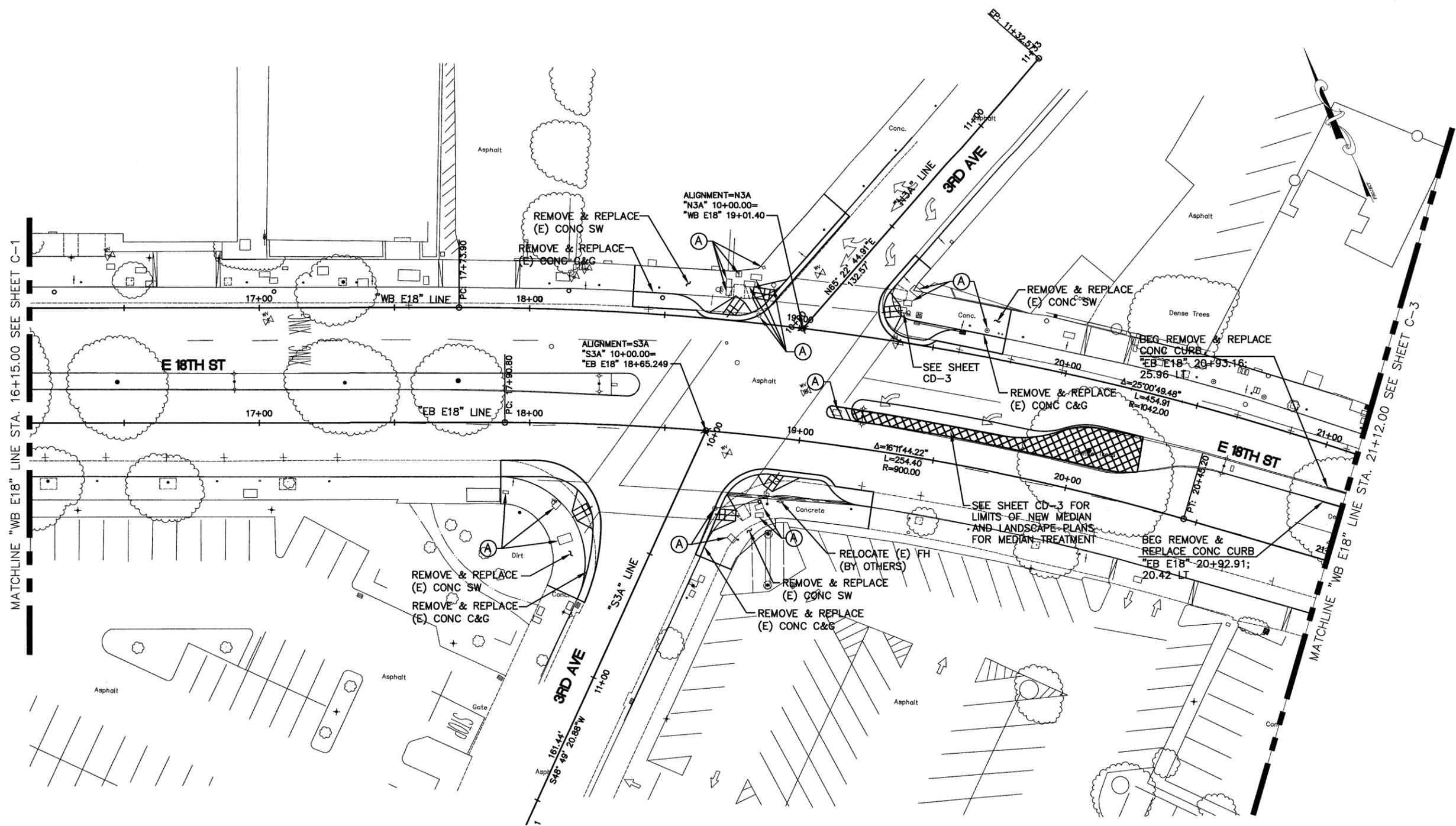
SCALE: 1" = 20'
HOR: 1" = 20'
VERT: 1" = 20'
DATE: JAN 2011

SHEET NO. **C-1**
OF **52**

HALF SIZE

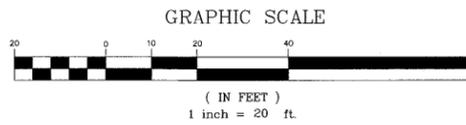
MATCHLINE "WB E18" LINE STA. 16+15.00 SEE SHEET C-2

DRAWING NAME: P:2328 E18th Street Improvement/CA/DD/C:CS:dwg
DATE: 01-11-11
PLOTTER: rickspant



CIVIL NOTES:

1. SEE SHEET C-1 FOR CIVIL NOTES & LEGEND.
2. SEE SHEET N-1 FOR ADDITIONAL NOTES AND ABBREVIATIONS.



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DESIGNED BY	SH, NK
DRAWN BY	NK

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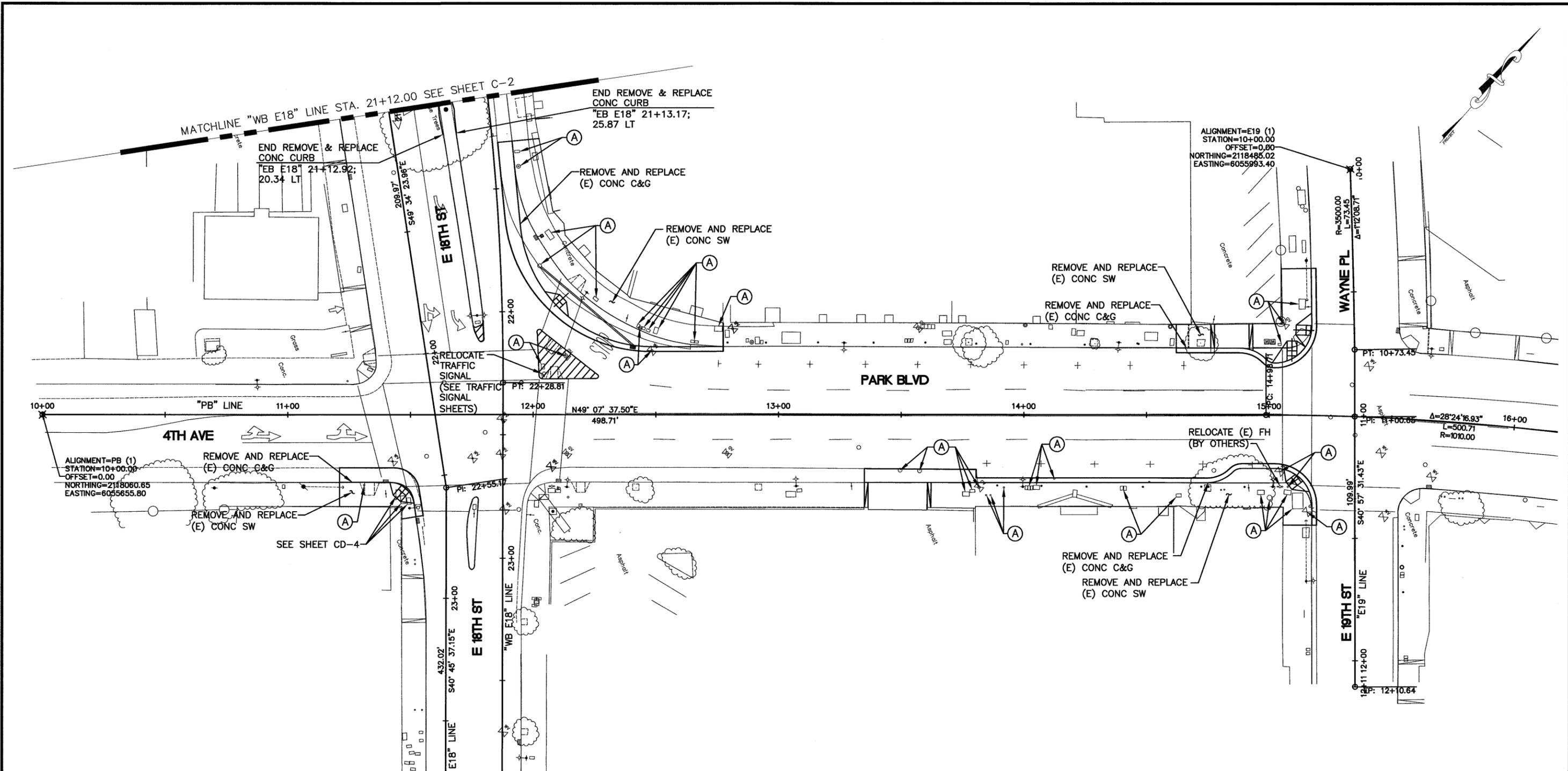
E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

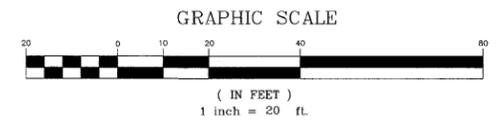
CIVIL LAYOUT SHEET 2 OF 3	PROJECT NO. P233285
	SHEET NO. C-2 OF 52
SCALE: 1" = 20' HOR: 1" = 20' VERT: 1" = 20' DATE: JAN 2011	

HALF SIZE

DRAWING NAME: P:\7228 E18th Street Improvement\CADD\CI-C3.dwg
 PLOTTED BY: nichayash



- CIVIL NOTES:**
1. SEE SHEET C-1 FOR CIVIL NOTES & LEGEND.
 2. SEE SHEET N-1 FOR ADDITIONAL NOTES AND ABBREVIATIONS.



CHECKED BY	TH	
DESIGNED BY	SH, NK	
DRAWN BY	NK	

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OAKLAND, CA 94612

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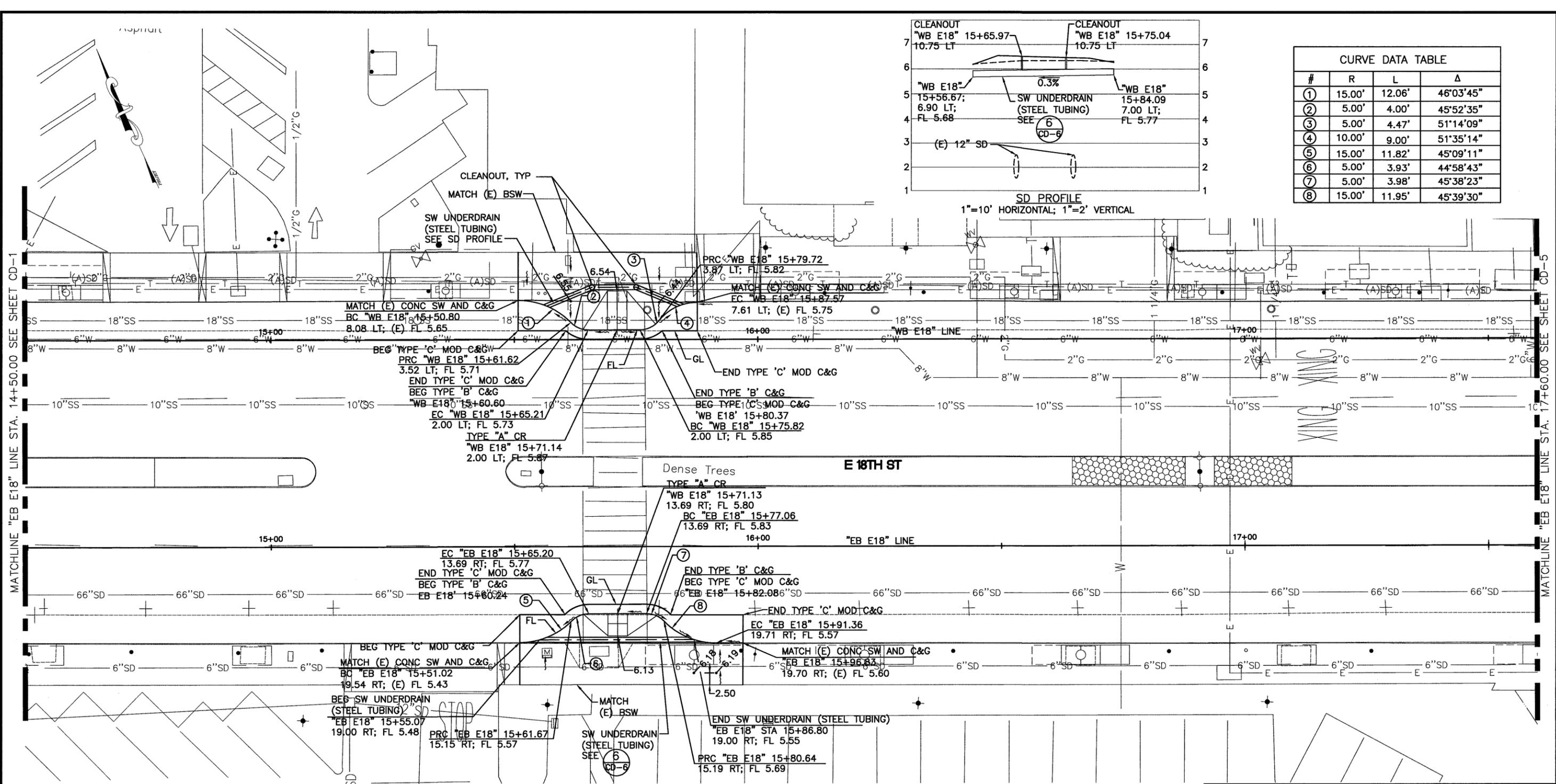
E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

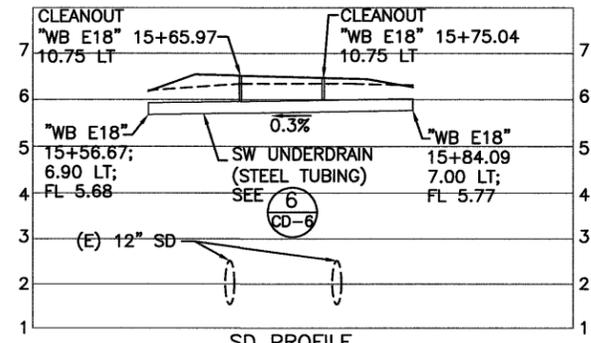
<p align="center">CIVIL LAYOUT</p> <p align="center">SHEET 3 OF 3</p>	<p align="center">PROJECT NO.</p> <p align="center">P233285</p>							
	<table border="1"> <tr> <td>SCALE: 1" = 20'</td> <td>SHEET NO.</td> </tr> <tr> <td>HOR: 1" = 20'</td> <td align="center">C-3</td> </tr> <tr> <td>VERT: 1" = 20'</td> <td align="center">7 OF 52</td> </tr> <tr> <td>DATE: JAN 2011</td> <td> </td> </tr> </table>	SCALE: 1" = 20'	SHEET NO.	HOR: 1" = 20'	C-3	VERT: 1" = 20'	7 OF 52	DATE: JAN 2011
SCALE: 1" = 20'	SHEET NO.							
HOR: 1" = 20'	C-3							
VERT: 1" = 20'	7 OF 52							
DATE: JAN 2011								

HALF SIZE

DRAWING NAME: P17228 E18th Street Improvement/CADD/CI-C3.dwg
PLOTTED BY: nicolaysh



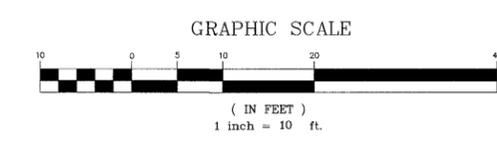
#	R	L	Δ
①	15.00'	12.06'	46°03'45"
②	5.00'	4.00'	45°52'35"
③	5.00'	4.47'	51°14'09"
④	10.00'	9.00'	51°35'14"
⑤	15.00'	11.82'	45°09'11"
⑥	5.00'	3.93'	44°58'43"
⑦	5.00'	3.98'	45°38'23"
⑧	15.00'	11.95'	45°39'30"



MATCHLINE "EB E18" LINE STA. 14+50.00 SEE SHEET CD-1

MATCHLINE "EB E18" LINE STA. 17+60.00 SEE SHEET CD-5

- NOTES:**
1. SEE SHEET C-1 FOR CIVIL NOTES & LEGEND.
 2. SEE SHEET N-1 FOR ADDITIONAL NOTES AND ABBREVIATIONS.
 3. SEE "CD-1" CONSTRUCTION DETAIL NOTES.



 MOFFATT & NICHOL 1300 CLAY STREET, SUITE 550 OAKLAND, CA 94612	CHECKED BY	TH
	DESIGNED BY	SH, NK, XL
	DRAWN BY	NK, XL

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E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

CONSTRUCTION DETAILS

SHEET 2 OF 5

PROJECT NO.
P233285

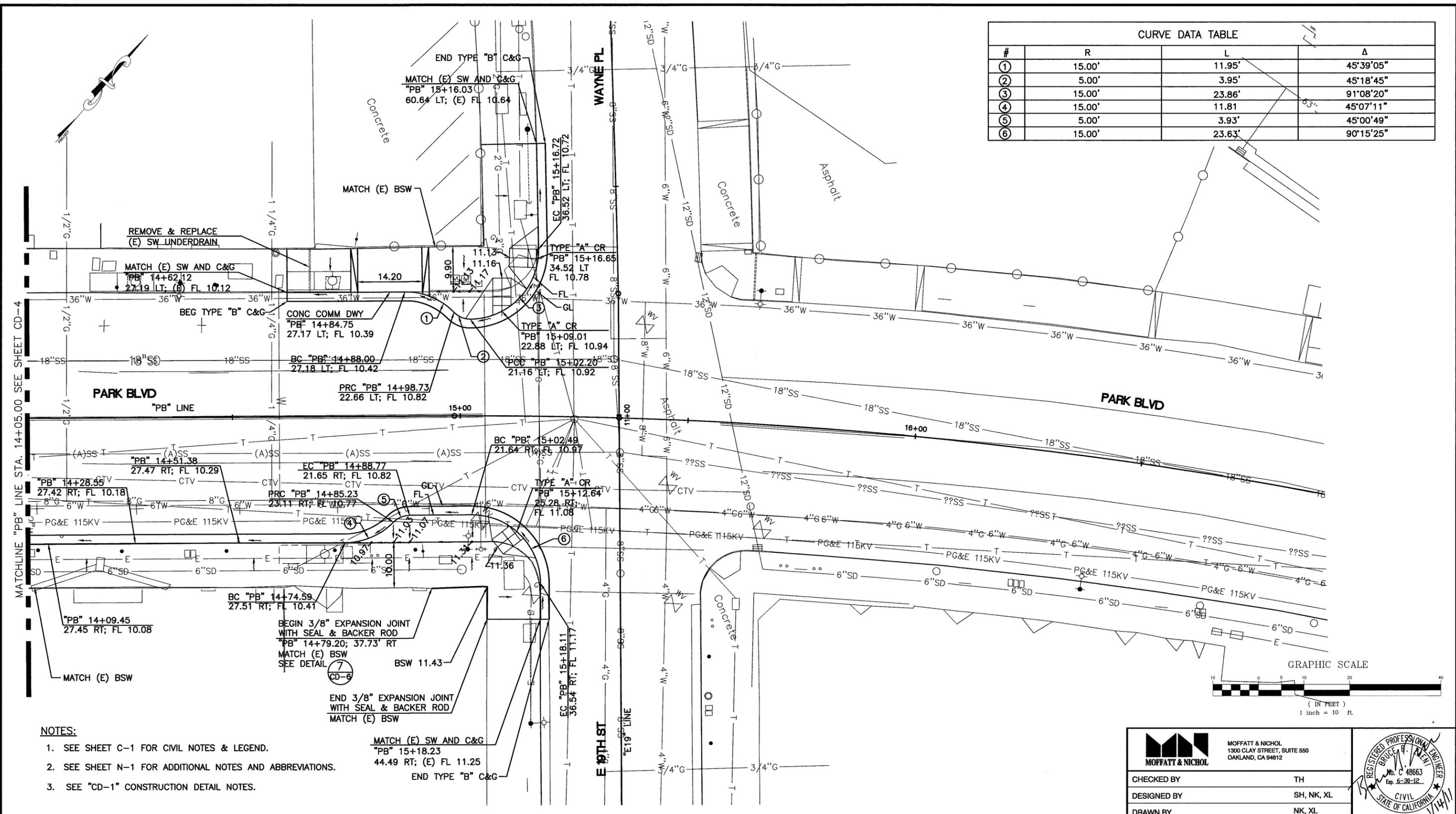
SCALE: 1"=10'
 HOR: 1"=10'
 VERT: 1"=10'
 DATE: JAN 2011

SHEET NO.
CD-2
9 OF 52

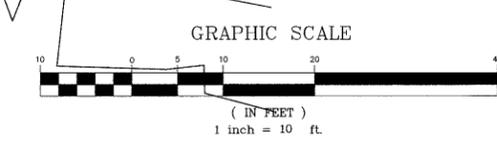
HALF SIZE

DRAWING NAME: P17228 E 18th Street Improvement/CADD/CD1-C08.dwg
 PLOT DATE: 01-14-11
 PLOTTED BY: sru

CURVE DATA TABLE			
#	R	L	Δ
①	15.00'	11.95'	45°39'05"
②	5.00'	3.95'	45°18'45"
③	15.00'	23.86'	91°08'20"
④	15.00'	11.81'	45°07'11"
⑤	5.00'	3.93'	45°00'49"
⑥	15.00'	23.63'	90°15'25"

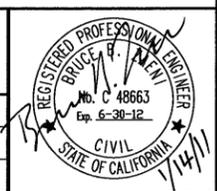


- NOTES:**
- SEE SHEET C-1 FOR CIVIL NOTES & LEGEND.
 - SEE SHEET N-1 FOR ADDITIONAL NOTES AND ABBREVIATIONS.
 - SEE "CD-1" CONSTRUCTION DETAIL NOTES.



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 1300 CLAY STREET, SUITE 550
 OAKLAND, CA 94612

CHECKED BY TH
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 DRAWN BY NK, XL



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No.	DATE	BY	REFERENCE

CONSTRUCTION DETAILS
 SHEET 5 OF 5

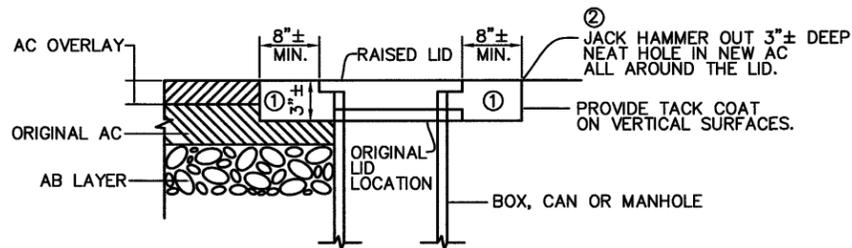
PROJECT NO. **P233285**

SCALE: 1" = 10'
 HOR: 1" = 10'
 VERT: 1" = 10'
 DATE: JAN 2011

SHEET NO. **CD-5**
 12 OF 52

HALF SIZE

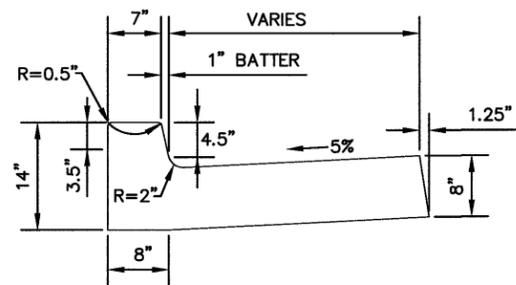
DRAWING NAME: P233285 E18th Street Improvement/CADD/CD-1-CD6.dwg
 PLOT DATE: 01-14-11
 PLOTTED BY: shu



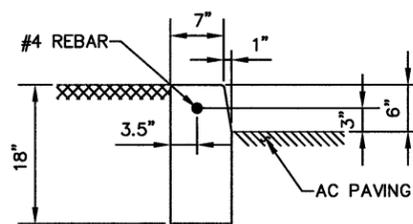
- ① PLACE 3/8" TYPE B ASPHALT, COMPACT PER PROJECT SPECIFICATIONS.
- ② SCRIBE CIRCLE 8"± MIN. FROM OUTSIDE EDGE OF LID AS REFERENCE FOR PAVEMENT REMOVAL. REMOVE ASPHALT 3"± TO FIRM BASE. OBTAIN COMPACTION USING VIBRA PLATE OR ROLLER
- ③ RAISED LID SHALL BE FLUSH TO PAVEMENT SURFACE PER PROJECT TECHNICAL REQUIREMENT SECTION 9.

NOTE: RAISE MONUMENT LID USING 4" MIN OF CONCRETE WITH 1" ASPHALT CAP. FOR ADJUSTMENTS OF LESS THAN 1.5", RISER RINGS MAY BE USED IF DISTANCE FROM FG TO THE MONUMENT SURFACE OR PIN IS LESS THAN 18".

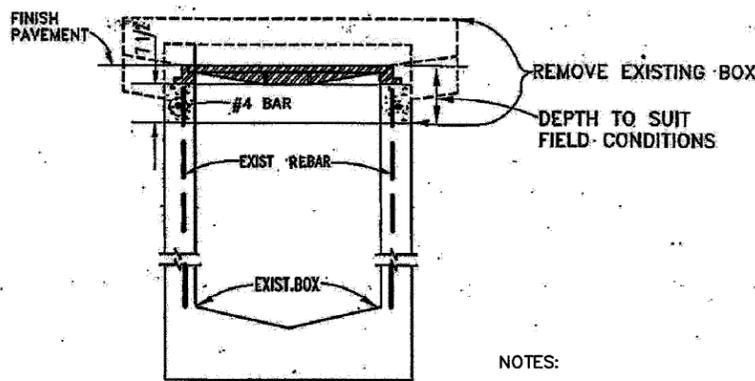
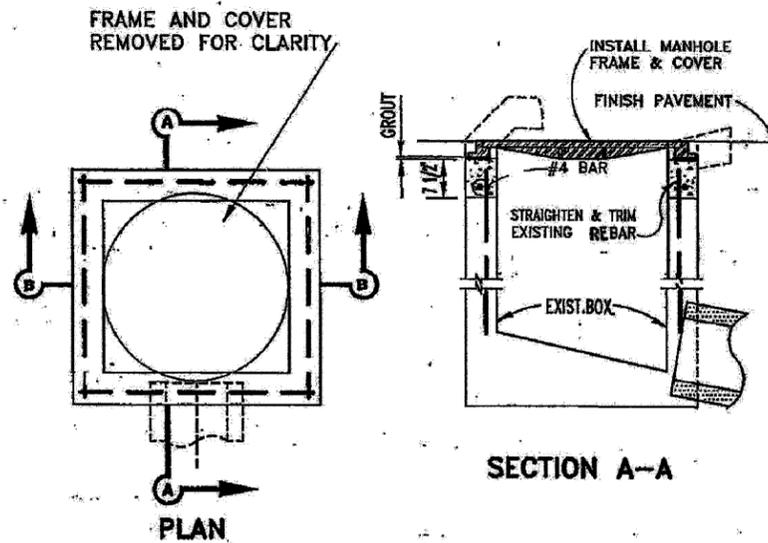
① ADJUST UTILITY OR MONUMENT COVER DETAIL
NTS



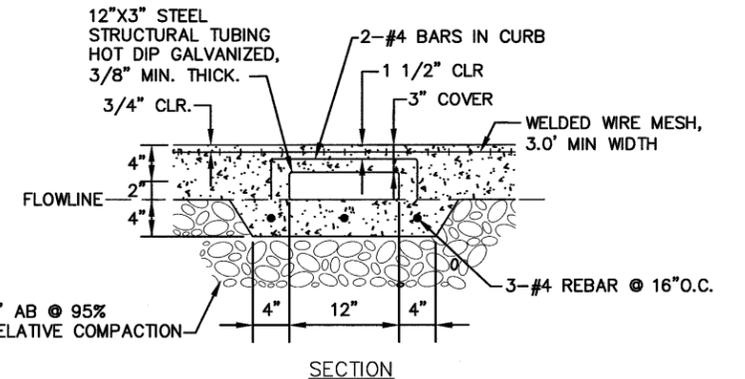
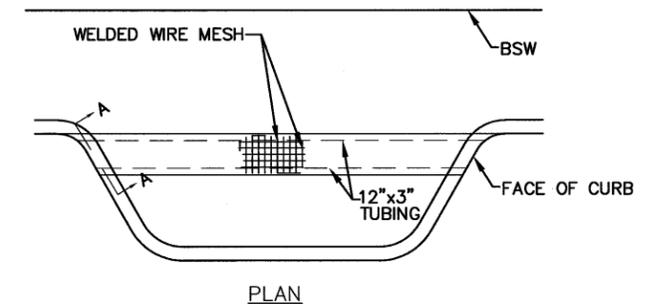
② TYPE 'C' MODIFIED CURB AND GUTTER
SCALE: 1"=1'



③ CONCRETE CURB
SCALE: 1"=1'



⑤ CONC ISLAND REMOVAL DETAIL
NTS

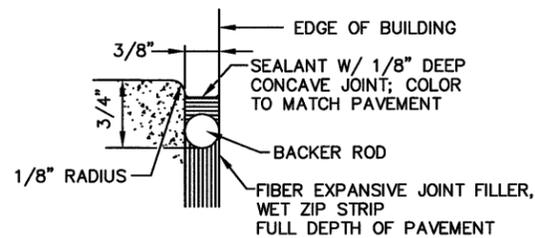


⑥ SW UNDERDRAIN (STEEL TUBING)
NTS

SECTION B-B

- NOTES:
1. STEEL SPACING SHALL BE 1-1/2" MIN.
 2. CLEARANCE SHALL BE 2" MIN.

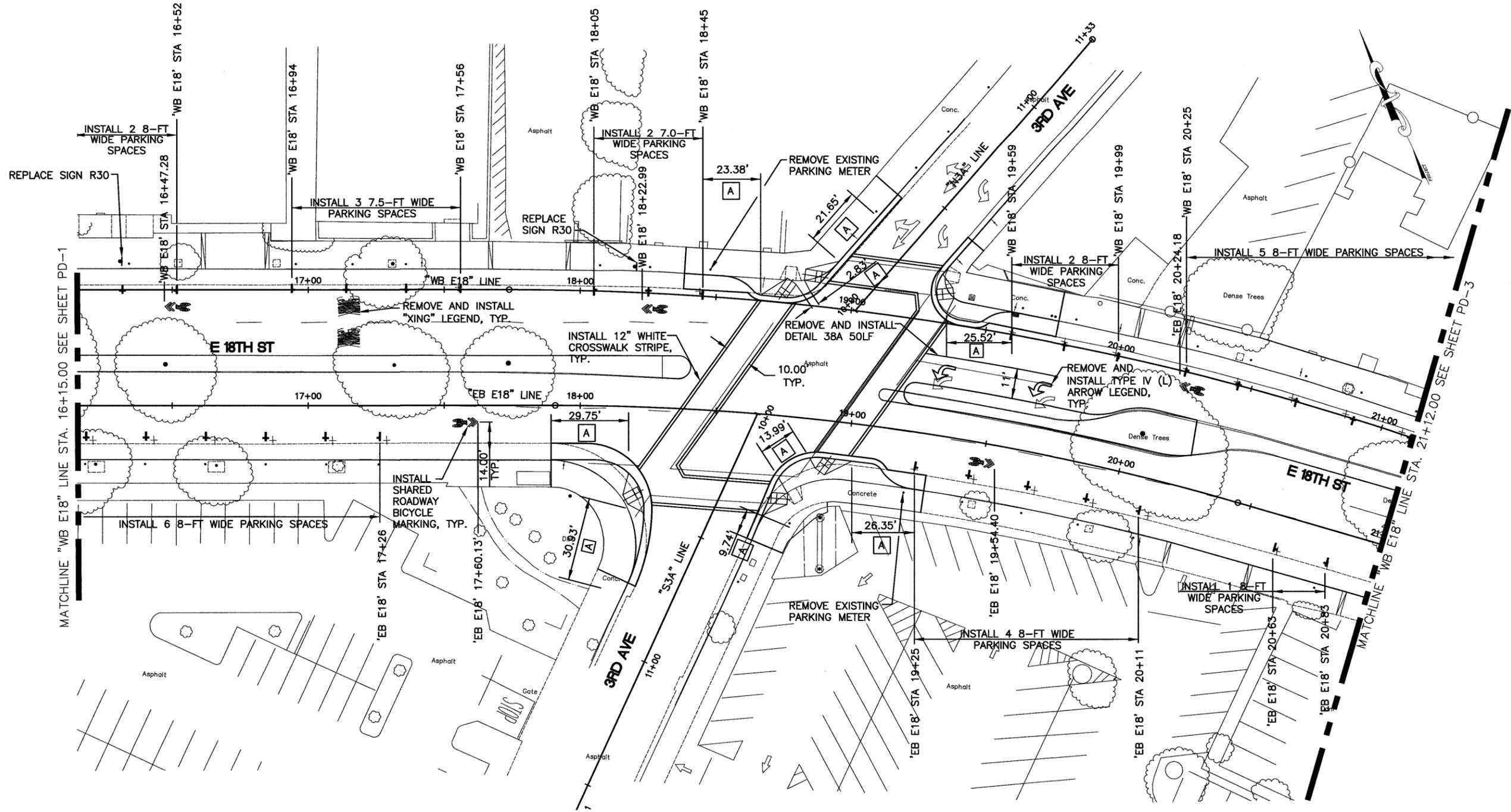
④ MODIFIED DRAINAGE INLET
NTS



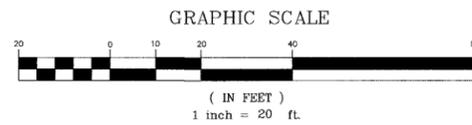
⑦ EXPANSION JOINT
NTS

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		DRAWN BY	NK	

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NOTES:
 1. SEE SHEET PD-1 FOR NOTES AND LEGEND.



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DESIGNED BY	XL	
DRAWN BY	XL	



E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

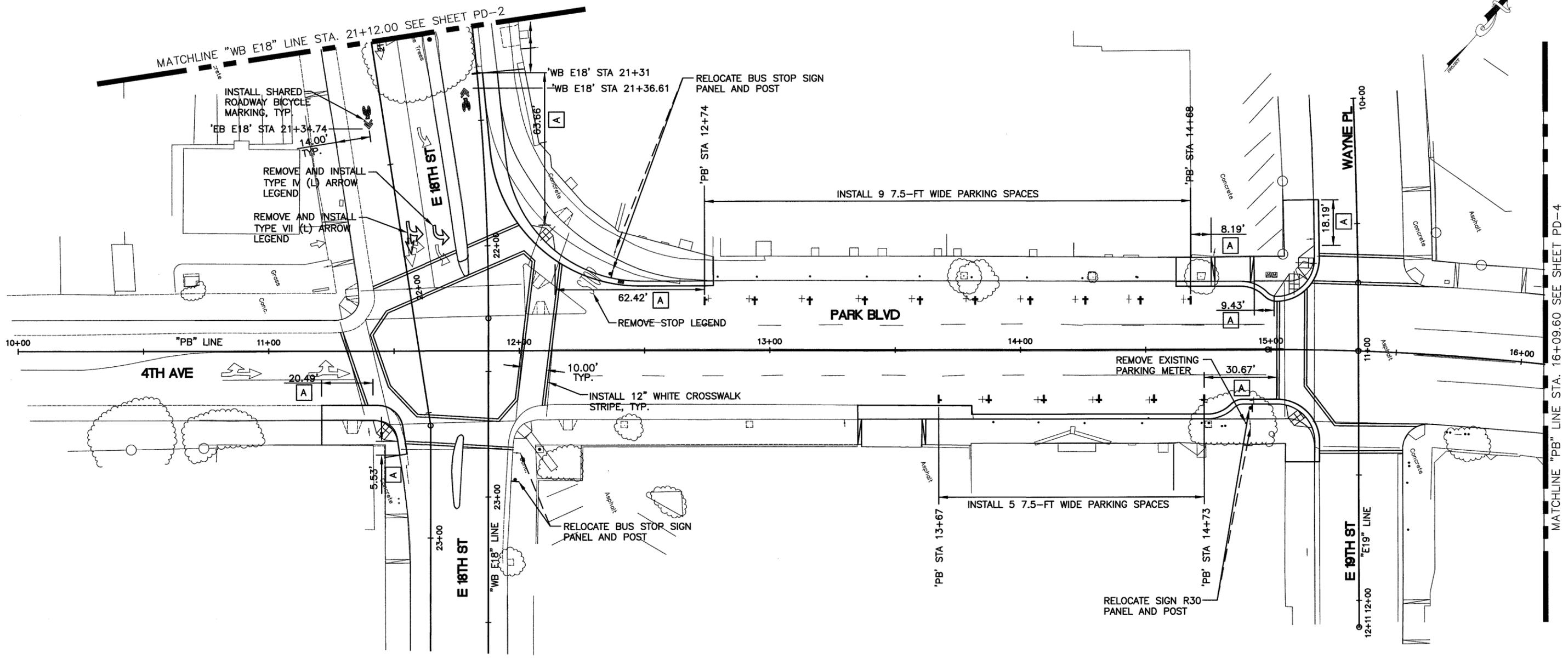
PAVEMENT DELINEATION AND SIGNS
 SHEET 2 OF 4

PROJECT NO. P233285
 SCALE: 1" = 20'
 HOR: 1" = 20'
 VERT: 1" = 20'
 DATE: JAN 2011

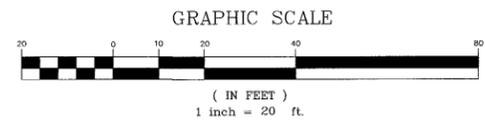
SHEET NO. PD-2
 15 OF 52

HALF SIZE

DRAWING NAME: P17028 E18th Street Improvement/CADD/PP1-P04.dwg
 PLOT DATE: 01-14-11
 PLOTTED BY: nicolayash



NOTES:
 1. SEE SHEET PD-1 FOR NOTES AND LEGEND.



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	DESIGNED BY	XL
	DRAWN BY	XL

1/14/11



E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

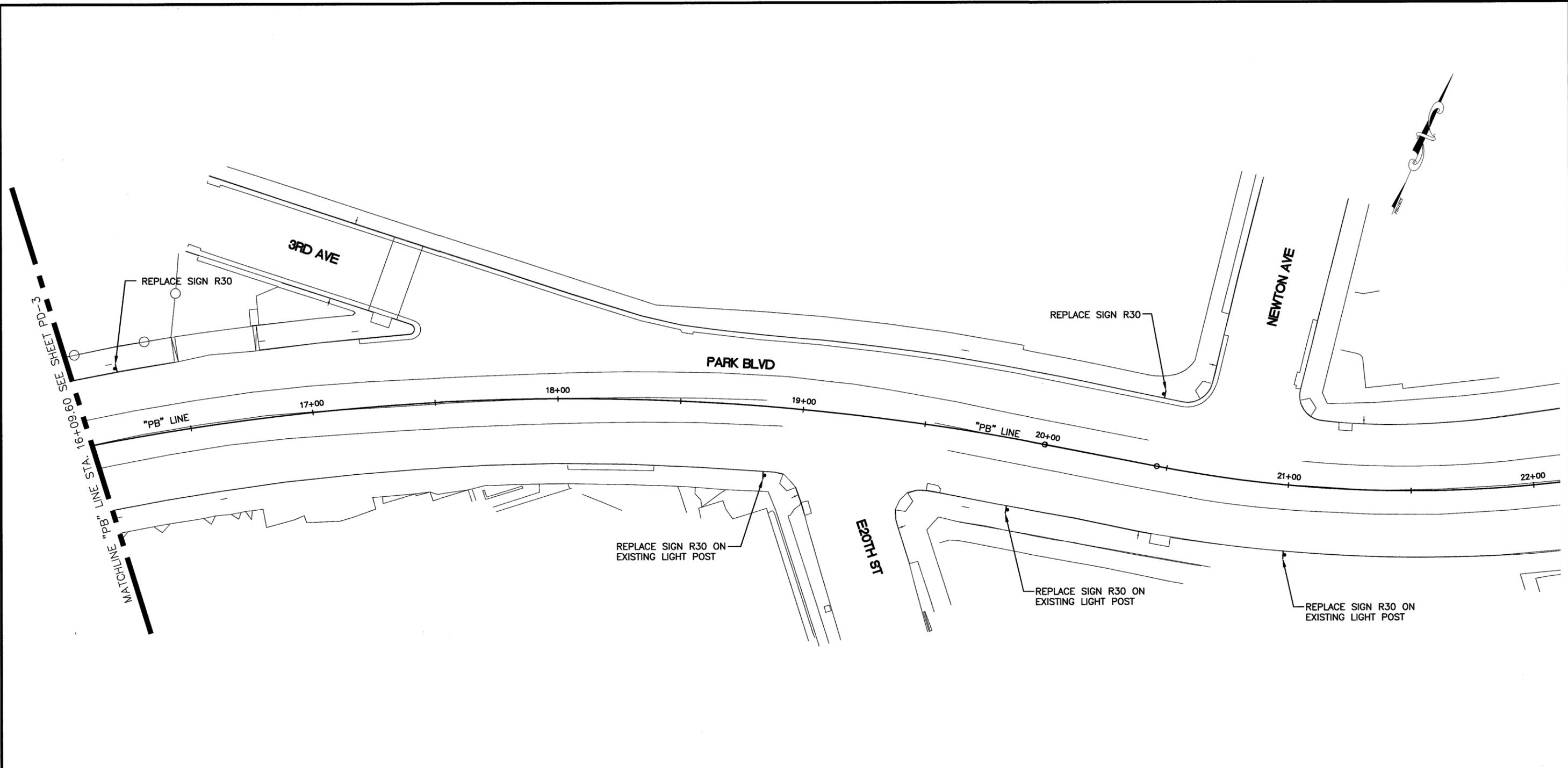
PAVEMENT DELINEATION AND SIGNS
 SHEET 3 OF 4

PROJECT NO. P233285
 SCALE: 1" = 20'
 HOR: 1" = 20'
 VERT: 1" = 20'
 DATE: JAN 2011

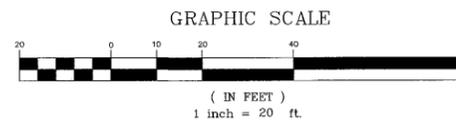
SHEET NO. PD-3
 16 OF 52

HALF SIZE

DRAWING NAME: P:\228 E18th Street Improvement\CADD\PD1-PD4.dwg
 DATE: 01-11-11
 PLOTTED BY: rickayashi



NOTES:
 1. SEE SHEET PD-1 FOR NOTES AND LEGEND.



 MOFFATT & NICHOL 1300 CLAY STREET, SUITE 550 OAKLAND, CA 94612		 BRUCE B. PARK No. C 48663 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA 1/14/11
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DRAWN BY	XL	



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E18TH STREET IMPROVEMENT PROJECT

No.	DATE	BY	REFERENCE

**PAVEMENT
 DELINEATION
 AND SIGNS**

SHEET 4 OF 4

**PROJECT NO.
 P233285**

SHEET NO.
 PD-4
 17 OF 52

SCALE: 1" = 20'
 HOR: 1" = 20'
 VERT: 1" = 20'
 DATE: JAN 2011

HALF SIZE

DRAWING NAME: P:\7228 E18th Street Improvement\CADD\PD1-PD4.dwg
 PLOT DATE: 01-14-11
 PLOTTED BY: mcdougall