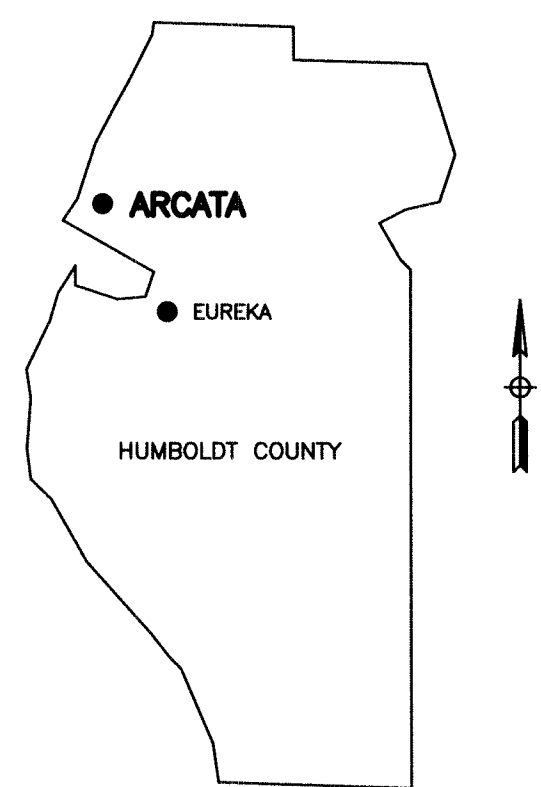
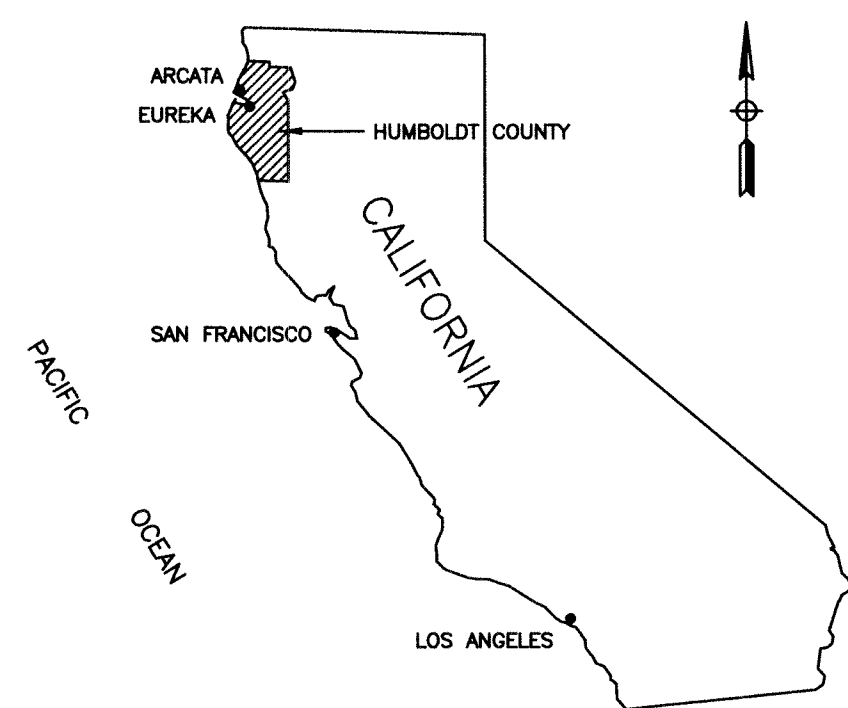


ARCATA RAILS WITH TRAILS

Federal Project RPSTPL-5021(019)

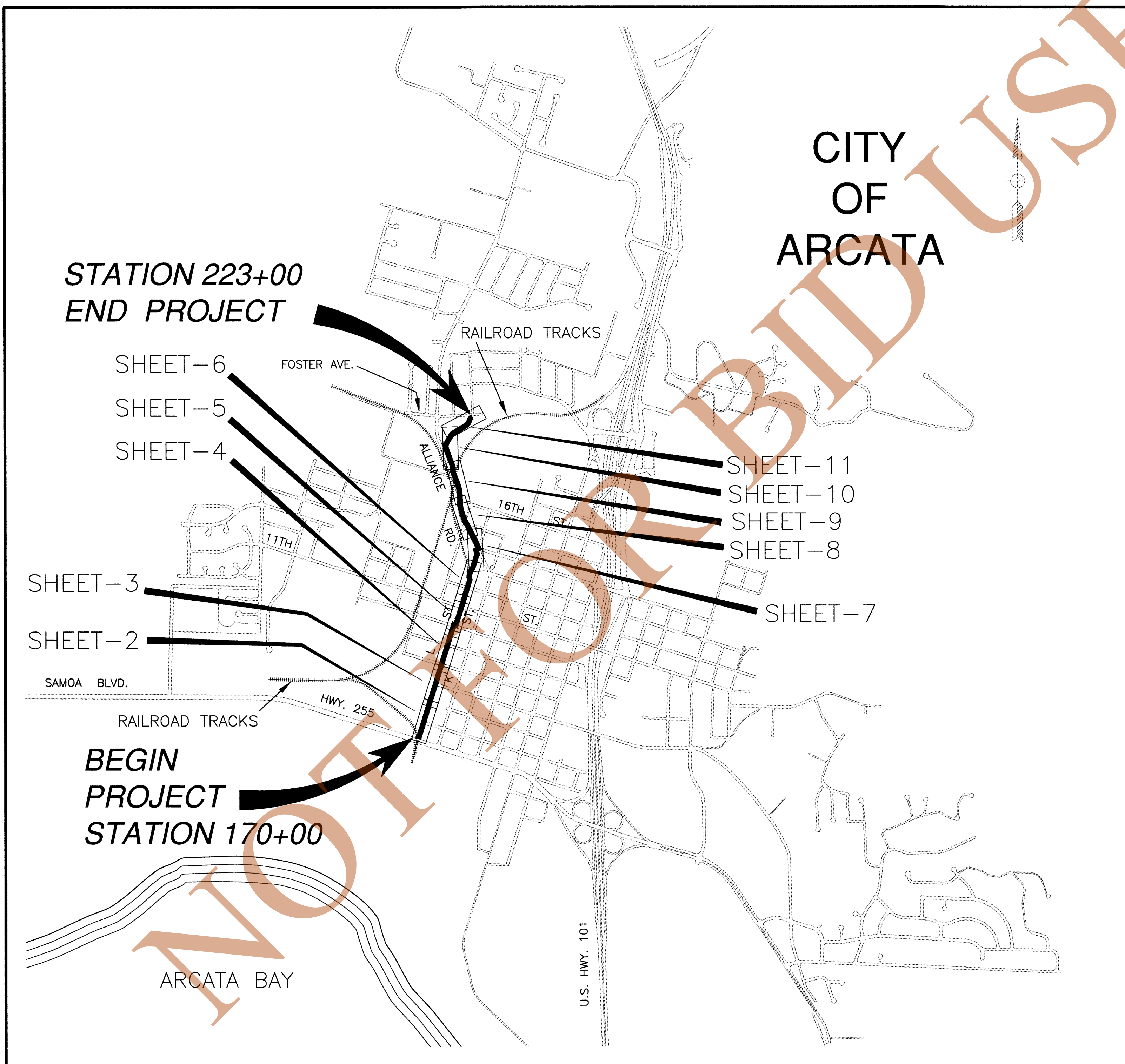


COUNTY MAP
N.T.S.



STATE MAP
N.T.S.

NOTE:
THESE PLANS WERE DEVELOPED USING A PRELIMINARY
DESIGN BY GHD INC. AND A TOPOLOGICAL SURVEY BY
GUTIERREZ LAND SURVEYING



PROJECT LOCATION MAP
N.T.S.

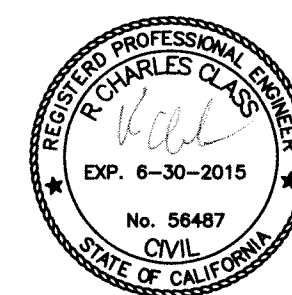
SHEET INDEX

1. COVER SHEET
2. C101 - PLAN & PROFILE - STA. 170+00 TO STA. 176+00
3. C102 - PLAN & PROFILE - STA. 176+00 TO STA. 181+50
4. C103 - PLAN & PROFILE - STA. 181+50 TO STA. 187+00
5. C104 - PLAN & PROFILE - STA. 187+00 TO STA. 192+50
6. C105 - PLAN & PROFILE - STA. 192+50 TO STA. 198+00
7. C106 - PLAN & PROFILE - STA. 198+00 TO STA. 203+00
8. C107 - PLAN & PROFILE - STA. 203+00 TO STA. 208+50
9. C108 - PLAN & PROFILE - STA. 208+50 TO STA. 214+00
10. C109 - PLAN & PROFILE - STA. 214+00 TO STA. 219+00
11. C110 - PLAN & PROFILE - STA. 219+00 TO STA. 223+00
12. C111 - PLAN & PROFILE - ALLAINCE ROAD CROSSING
13. C112 - PLAN & PROFILE - 15th St
14. C301 - CROSS SECTIONS
15. C302 - CROSS SECTIONS
16. C303 - CROSS SECTIONS
17. C304 - CROSS SECTIONS
18. C305 - CROSS SECTIONS
19. C401 - ENLARGED PLANS - HWY 255, 5th & 8th STREET CROSSINGS
20. C402 - ENLARGED PLANS - 9th, MIDDLEBLOCK & 10th STREET CROSSINGS
21. C403 - ENLARGED PLANS - 11th & 12th STREET CROSSINGS
22. C404 - ENLARGED PLANS - ALLAINCE ROAD CROSSING & ARCATA HIGH TRAIL
23. C405 - ENLARGED PLANS - 15th & 17th STREET CROSSINGS
24. C501 - DETAIL SHEET
25. C502 - DETAIL SHEET
26. C503 - DETAIL SHEET
27. C504 - DETAIL SHEET
28. E101 - ELECTRICAL PLAN
29. E102 - ELECTRICAL PLAN
30. E103 - ELECTRICAL PLAN
31. E104 - ELECTRICAL PLAN
32. E105 - ELECTRICAL PLAN
33. E106 - ELECTRICAL DETAILS
34. E107 - ELECTRICAL DETAILS

APPROVED BY:

R. Charles

R.C. CLASS R.C.E. 56487

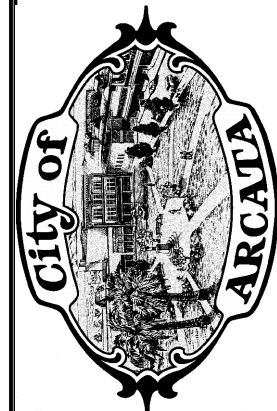
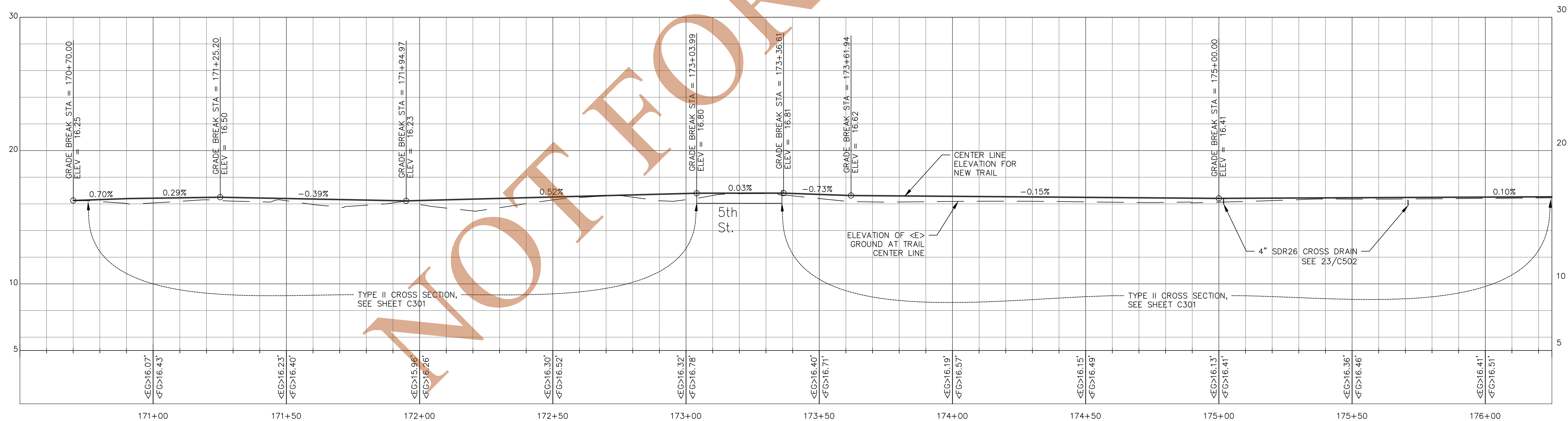
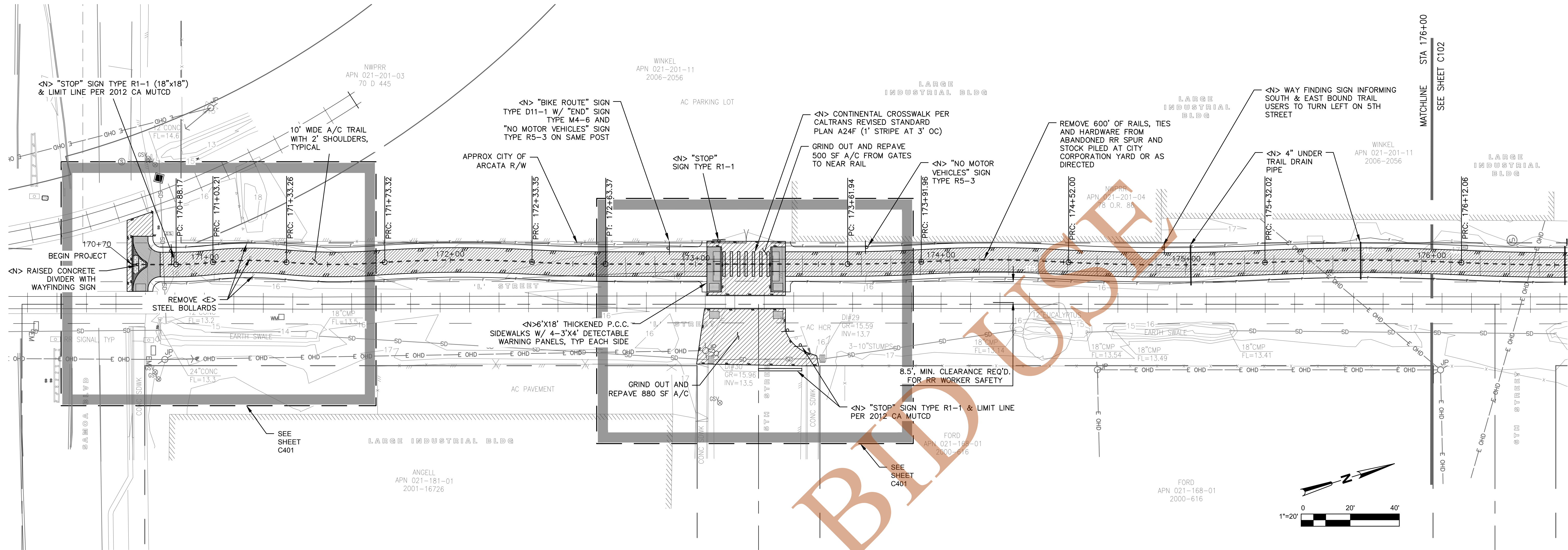


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ENGINEERING DEPARTMENT**

NO.	DATE	REVISION	BY
1	12/8/2013	Comments from client	CR

COVER SHEET
ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
NTS
Sheet No.
1 OF 34
Drawing
COVER SHEET

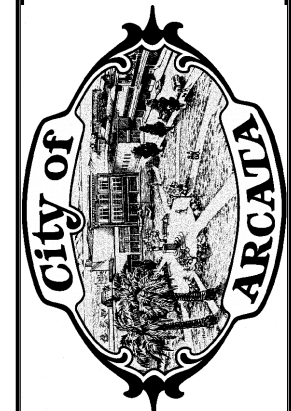
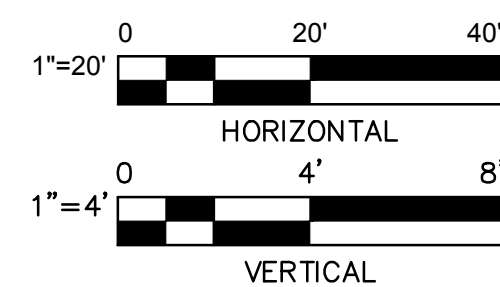
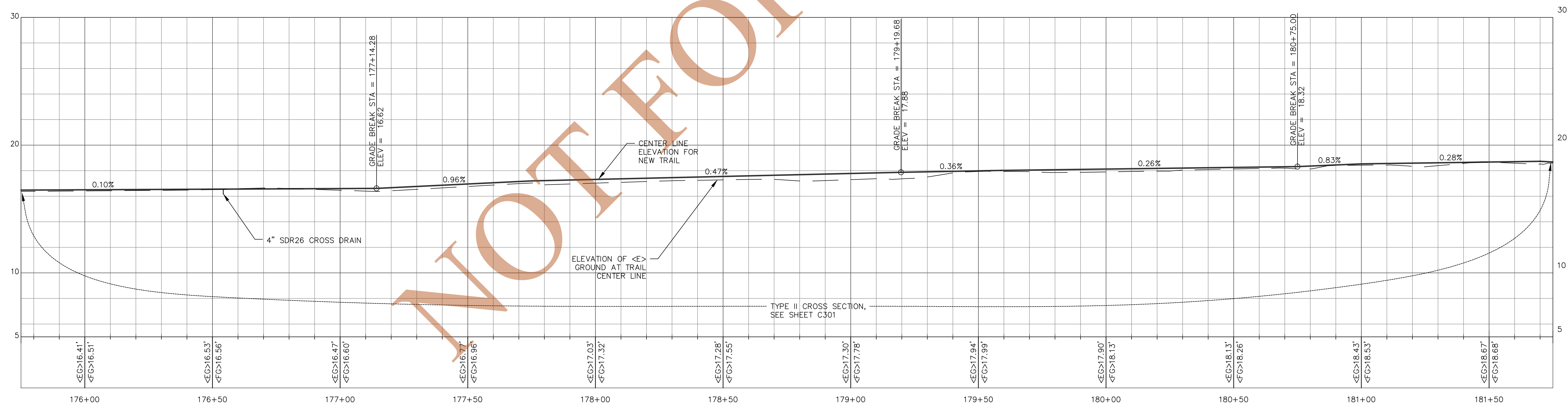
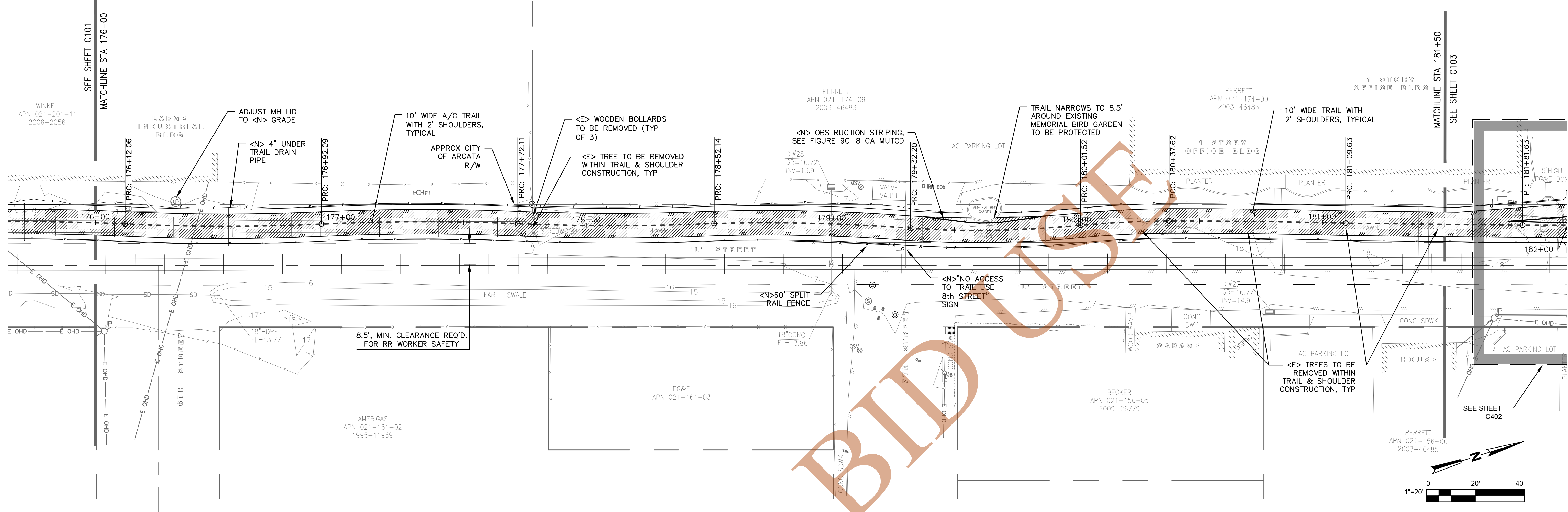


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NO.	DATE	REVISION
1	12/8/2014	Comments from client

Plan & Profile Sta 170+70 to 176+00
ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
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Sheet No.
2 OF 34
Drawing
C101

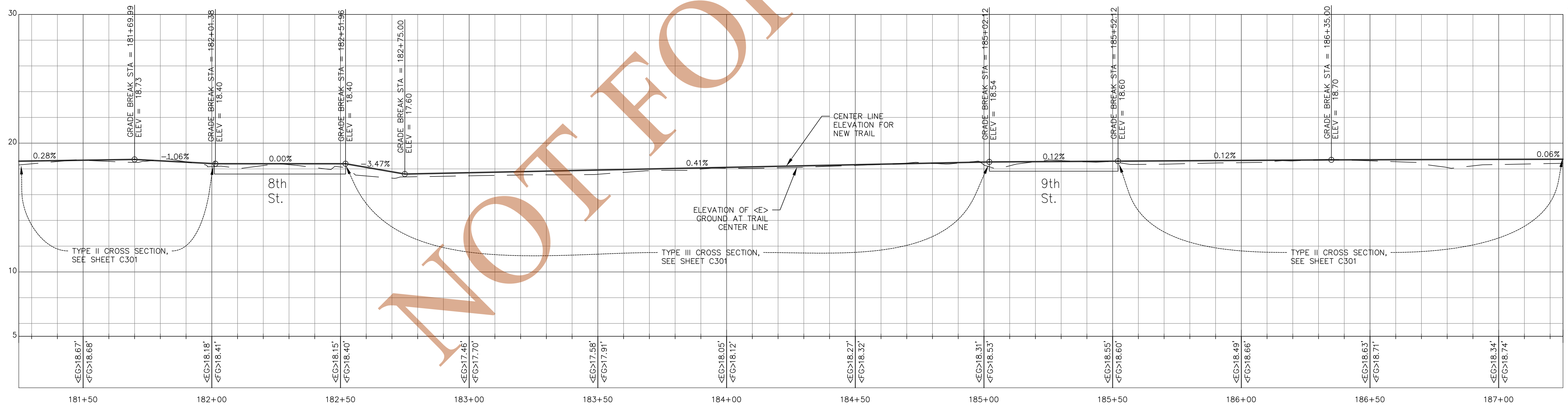
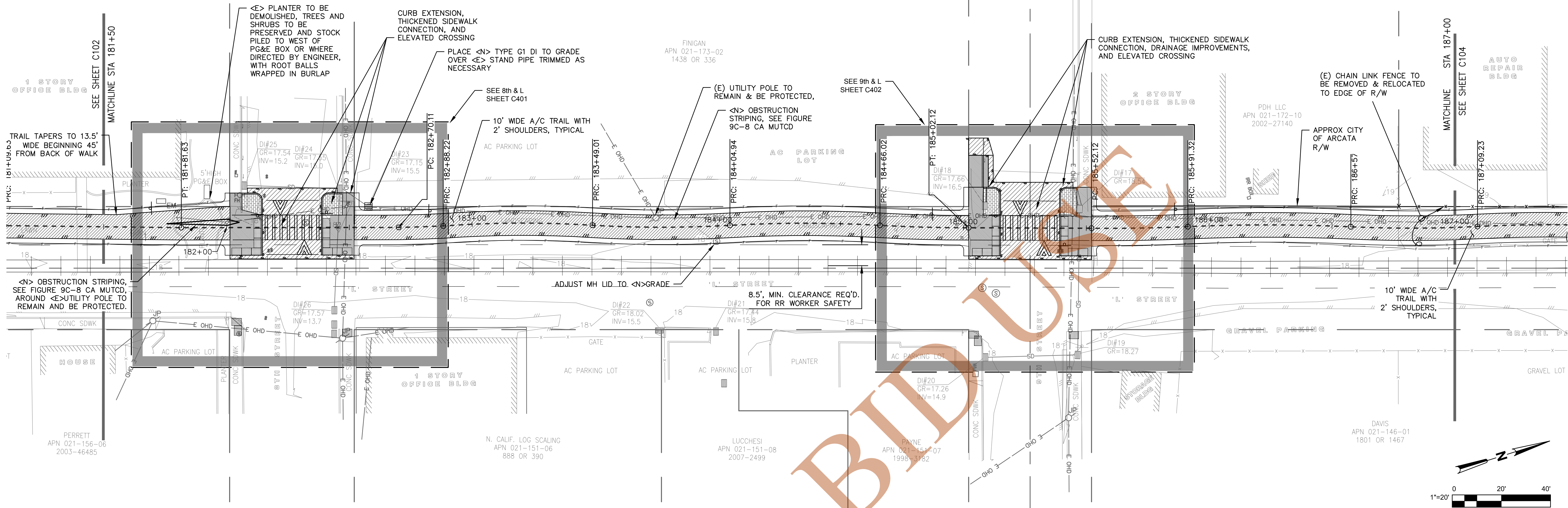


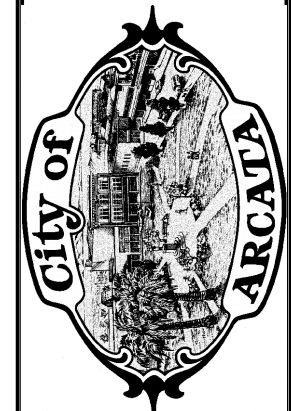
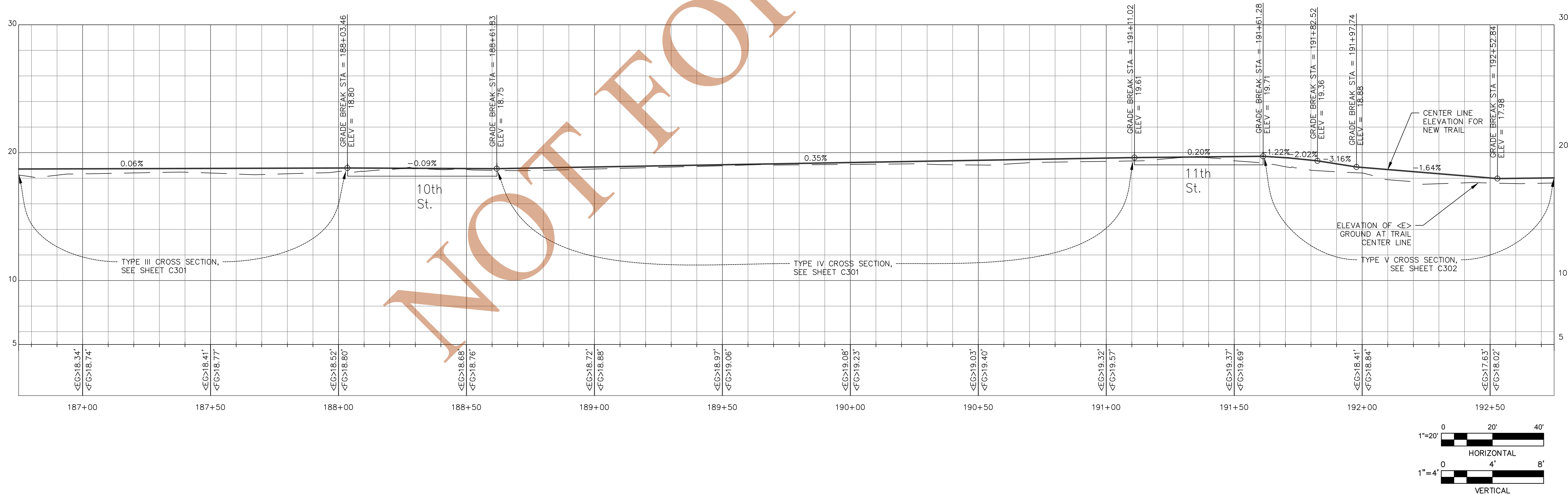
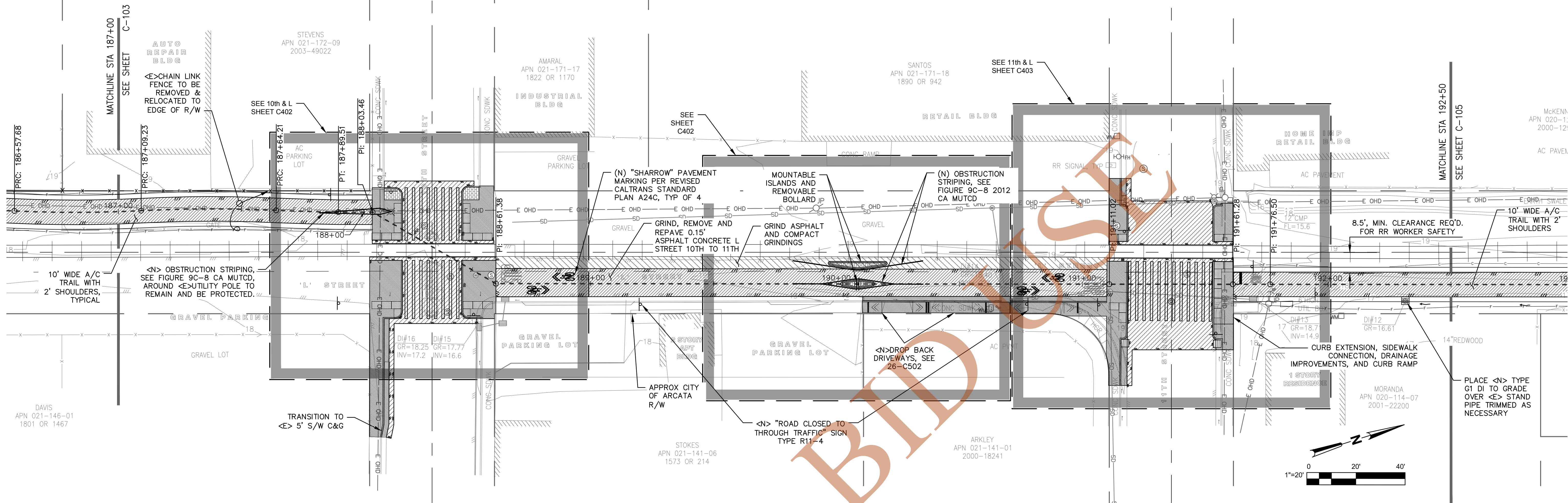
PREPARED BY:
CITY OF ARCATA
ENGINEERING DEPARTMENT

NO.	DATE	REVISION
1	12/8/2014	Comments from client

Plan & Profile Sta 176+00 to 181+50
ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
1" = 20'
Sheet No.
3 OF 34
Drawing
C102

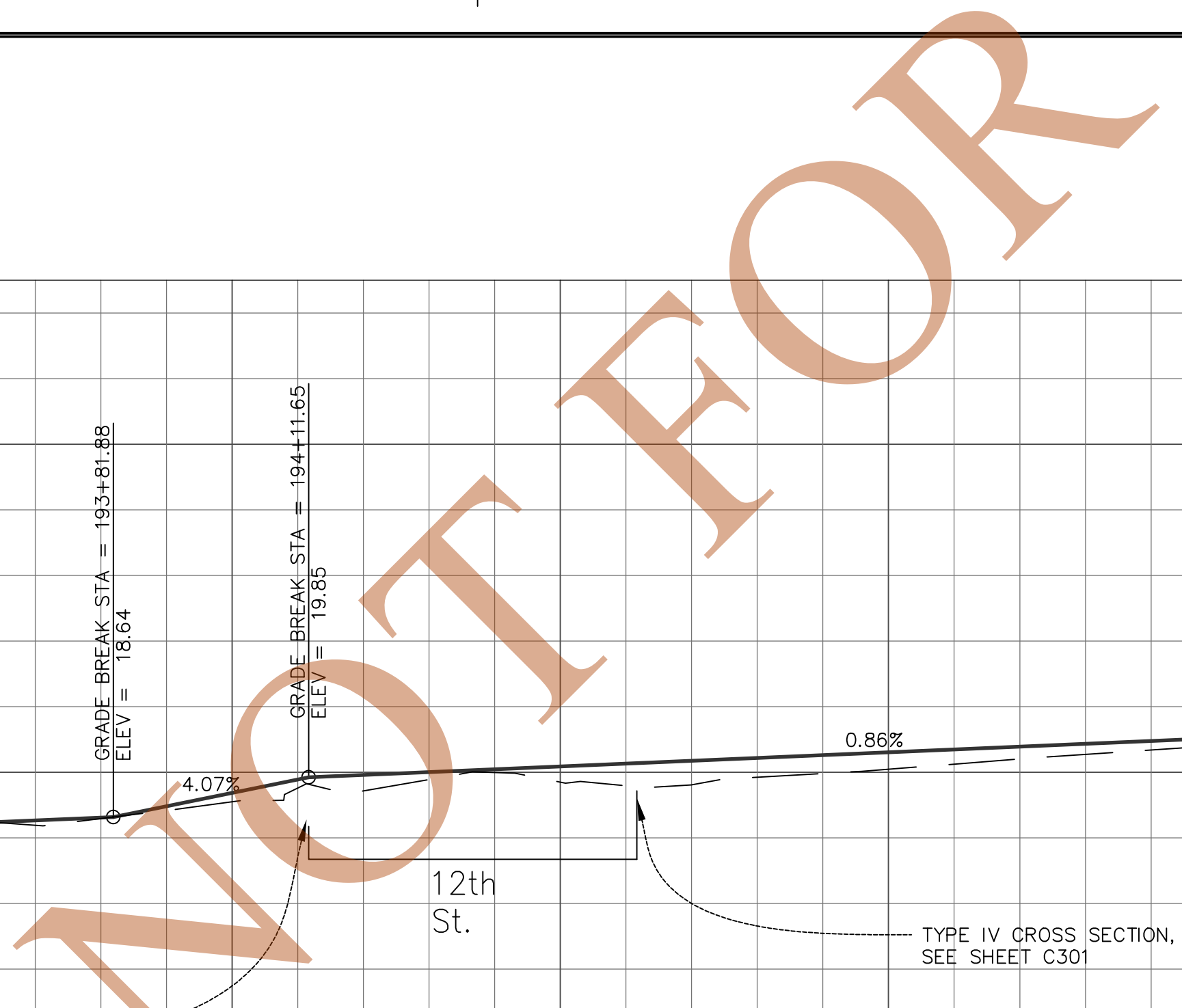
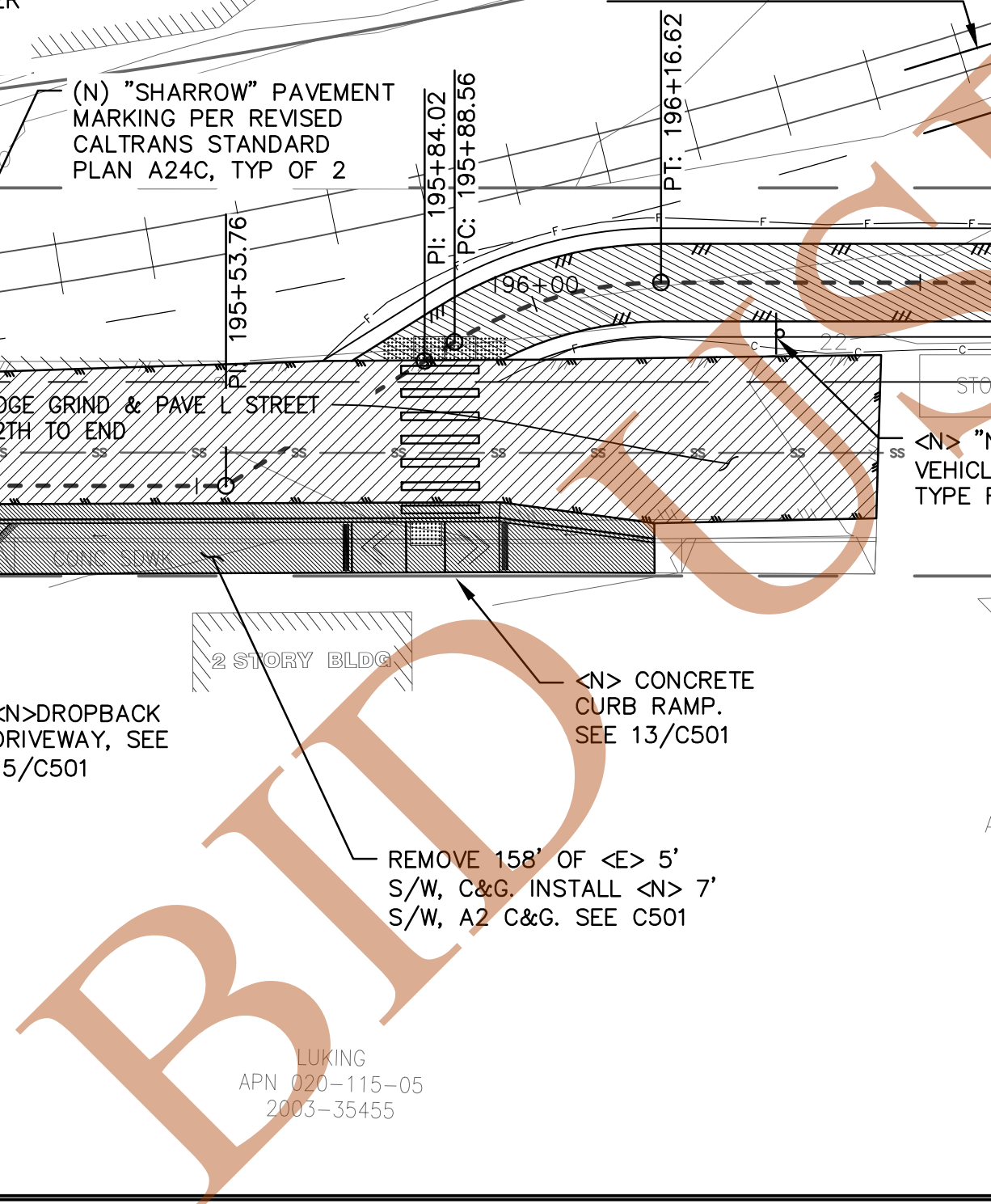


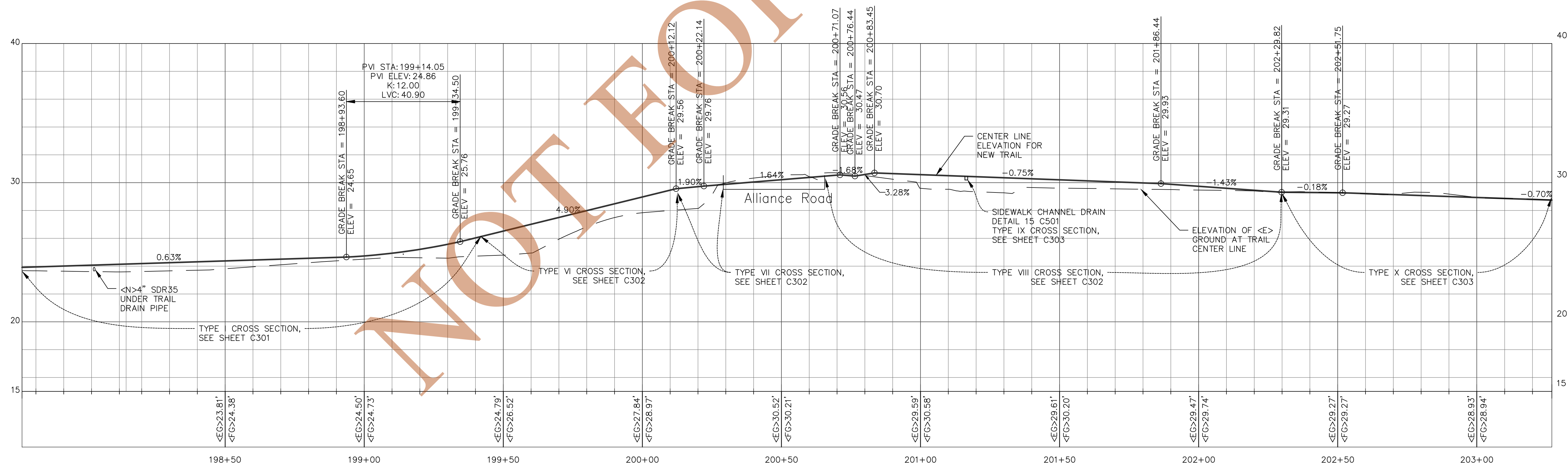
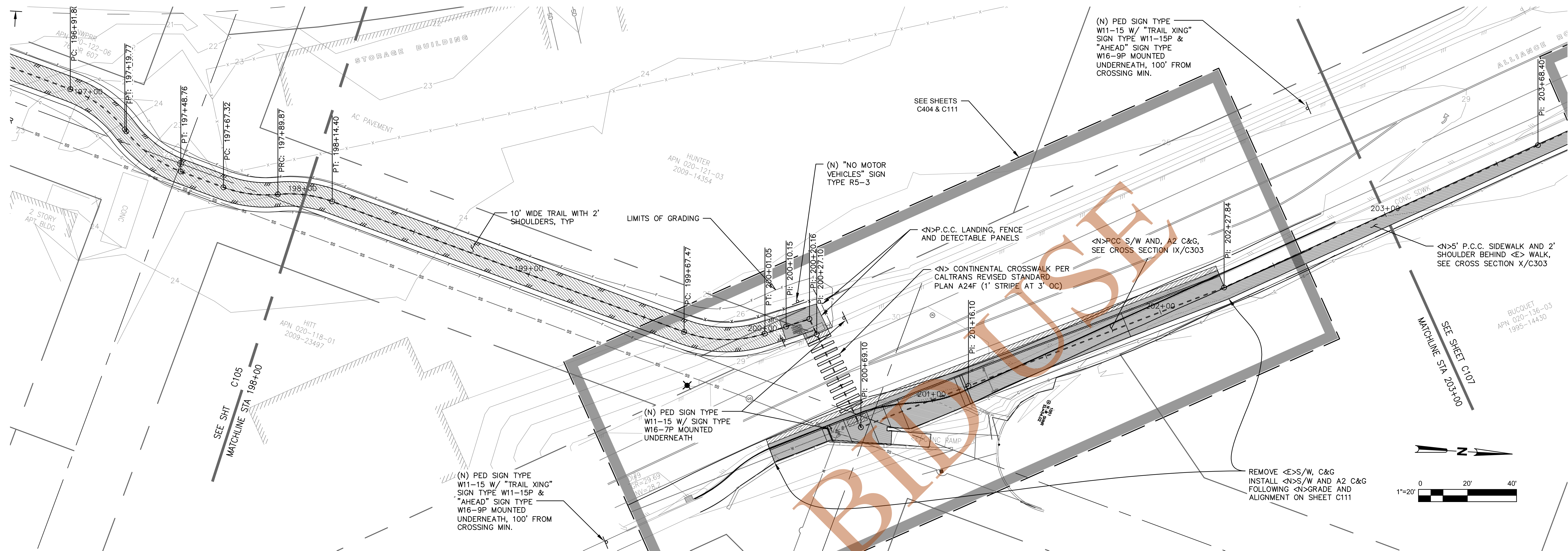


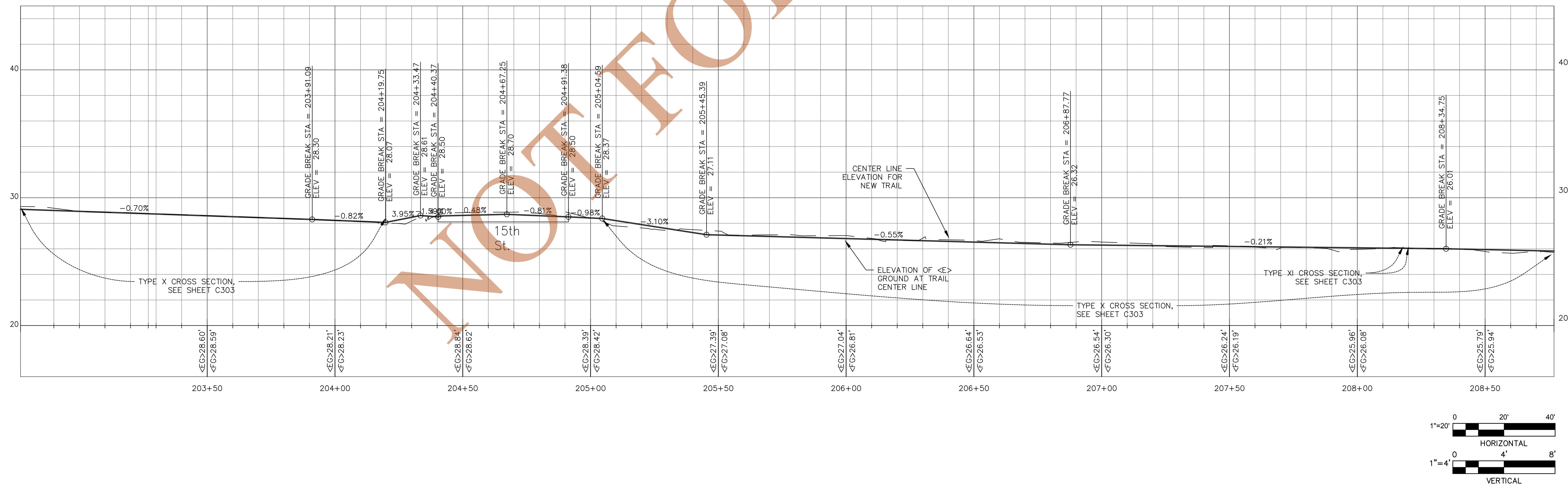
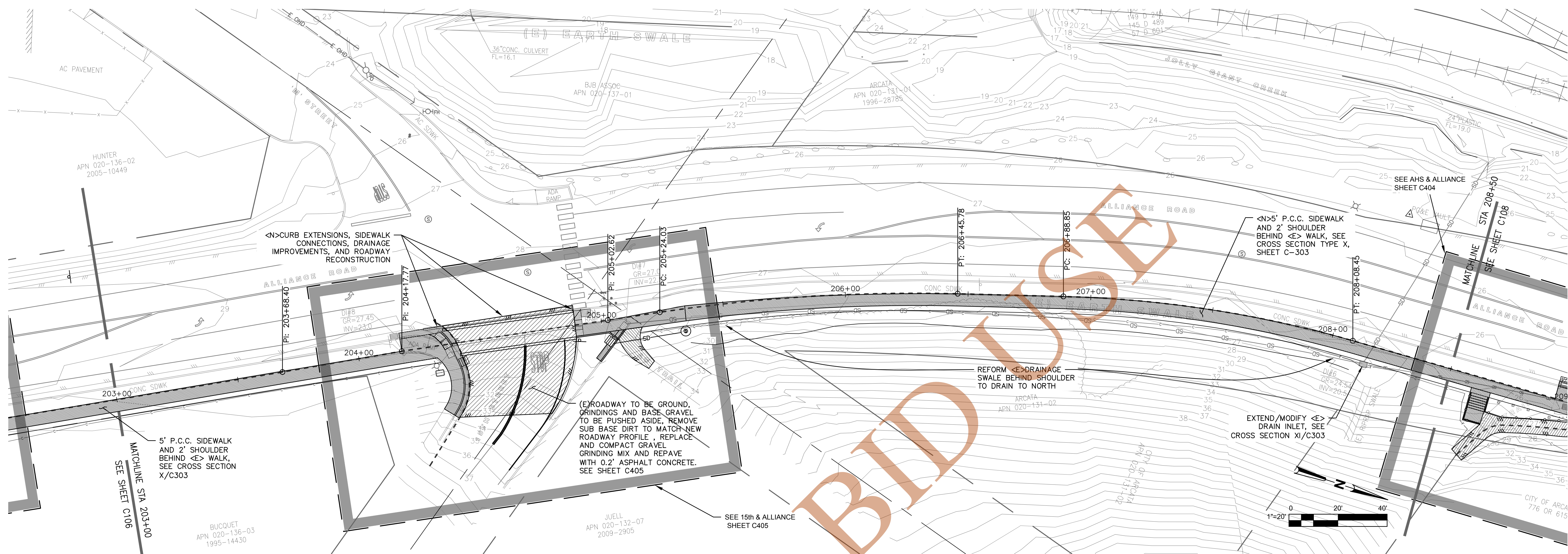
PREPARED BY:
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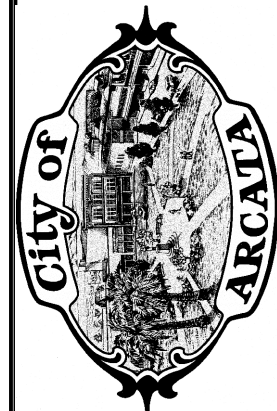
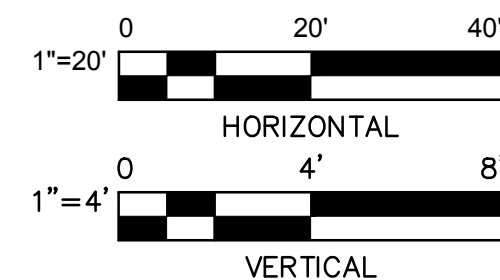
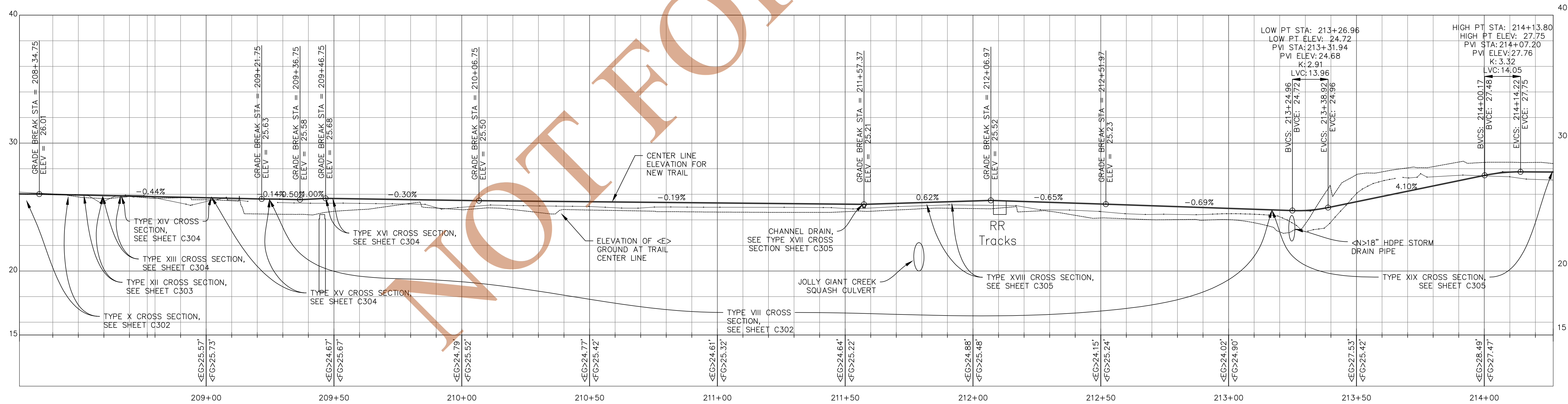
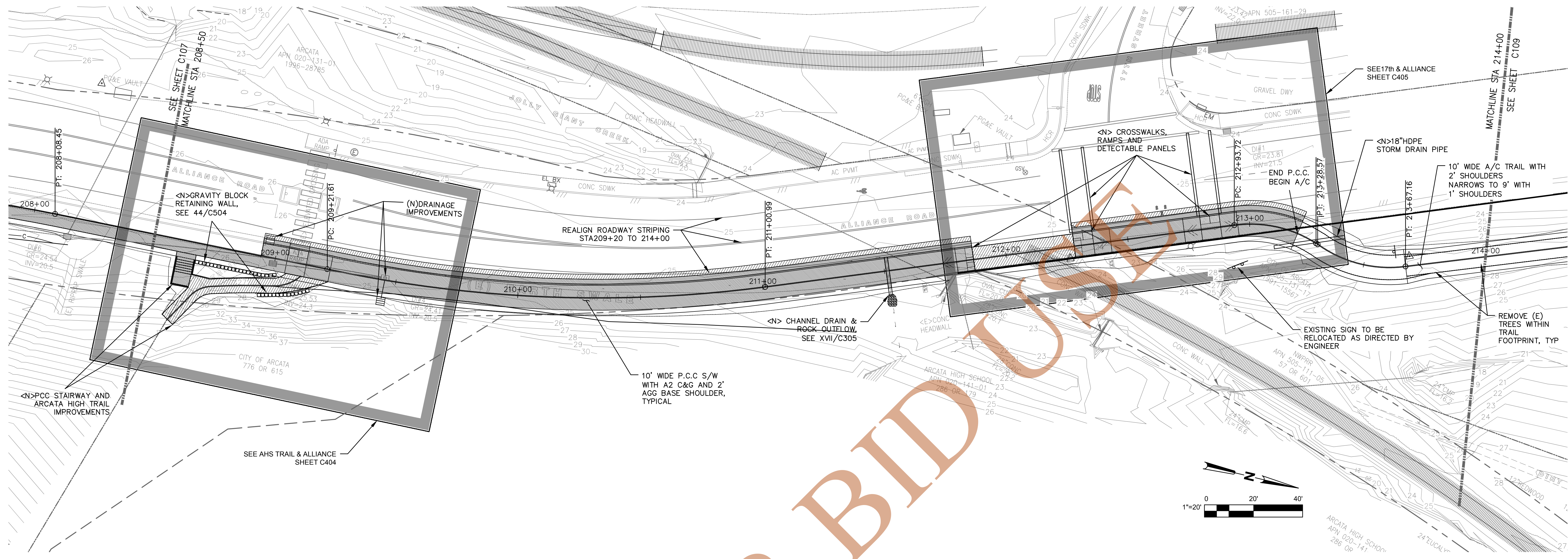
NO.	DATE	REVISION
1	12/8/2014	Comments from client

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ARCATA RAILS WITH TRAILS
Date: 12/8/2014
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Sheet No. 5 OF 34
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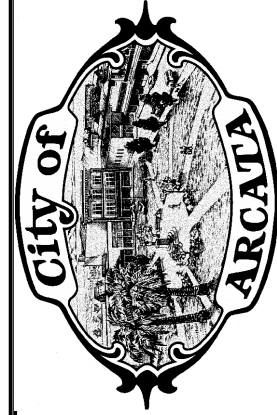
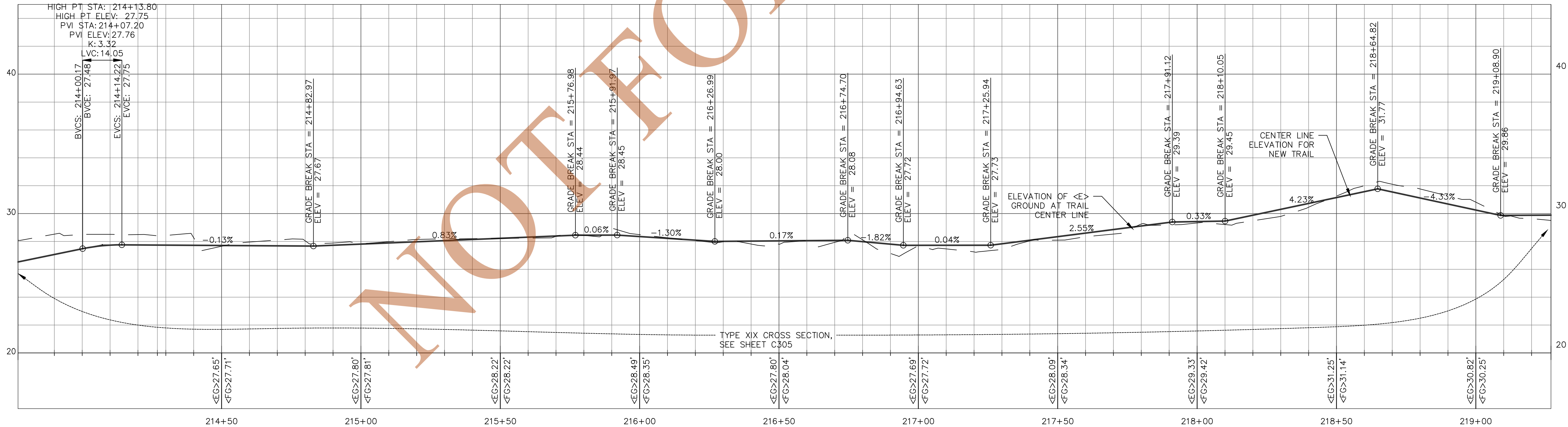
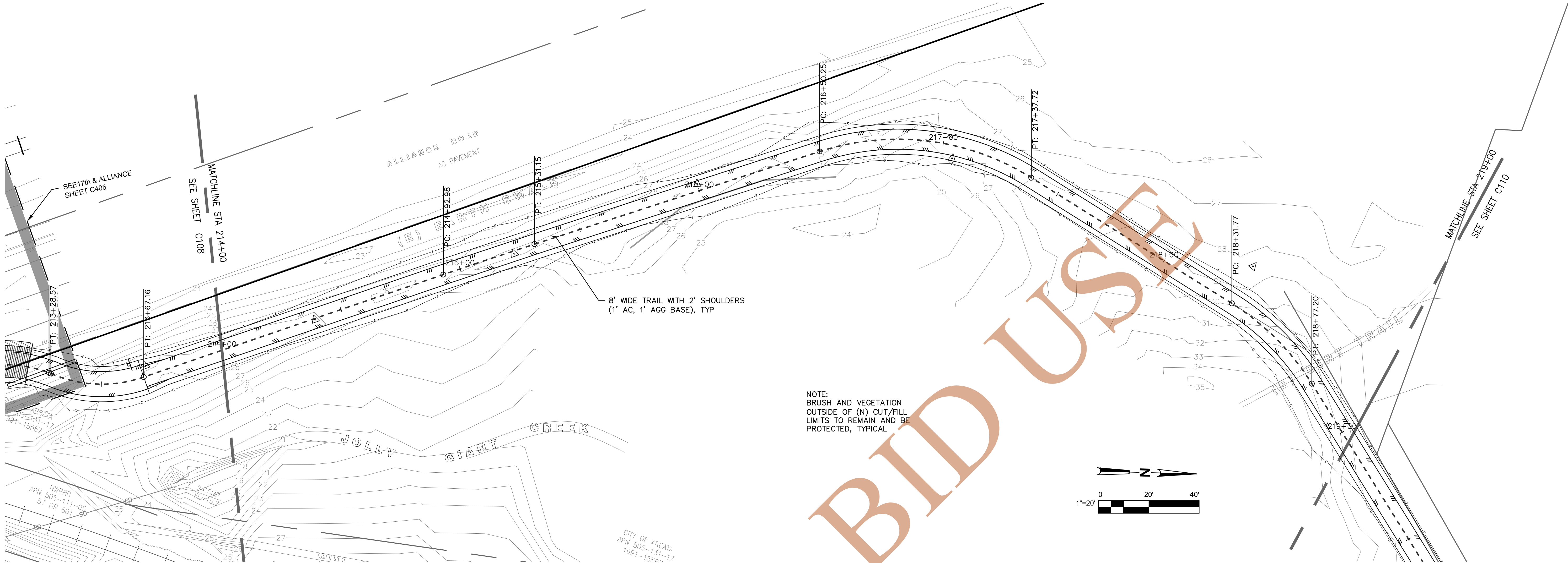


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Plan & Profile Sta 208+50 to 214+00
ARCATA RAILS WITH TRAILS

Date: 12/8/2014
Scale: 1" = 20'
Sheet No.: 9 OF 34
Drawing: **C108**

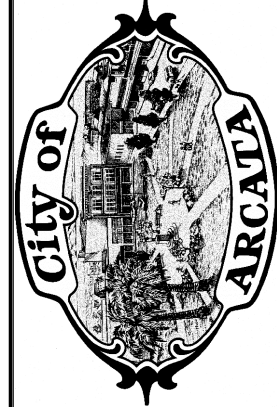
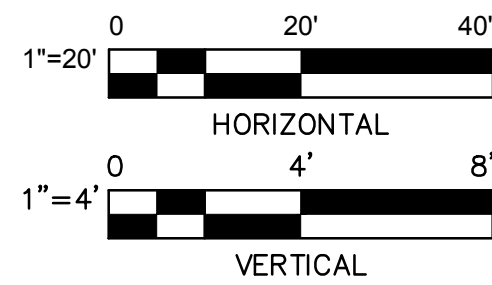
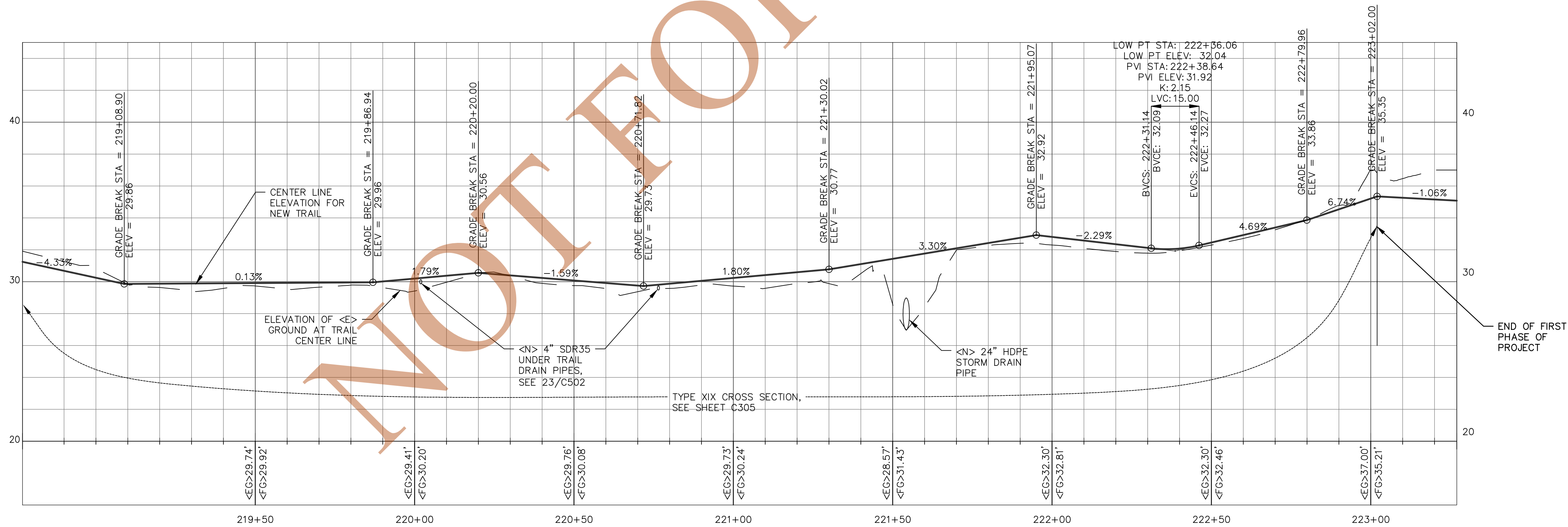
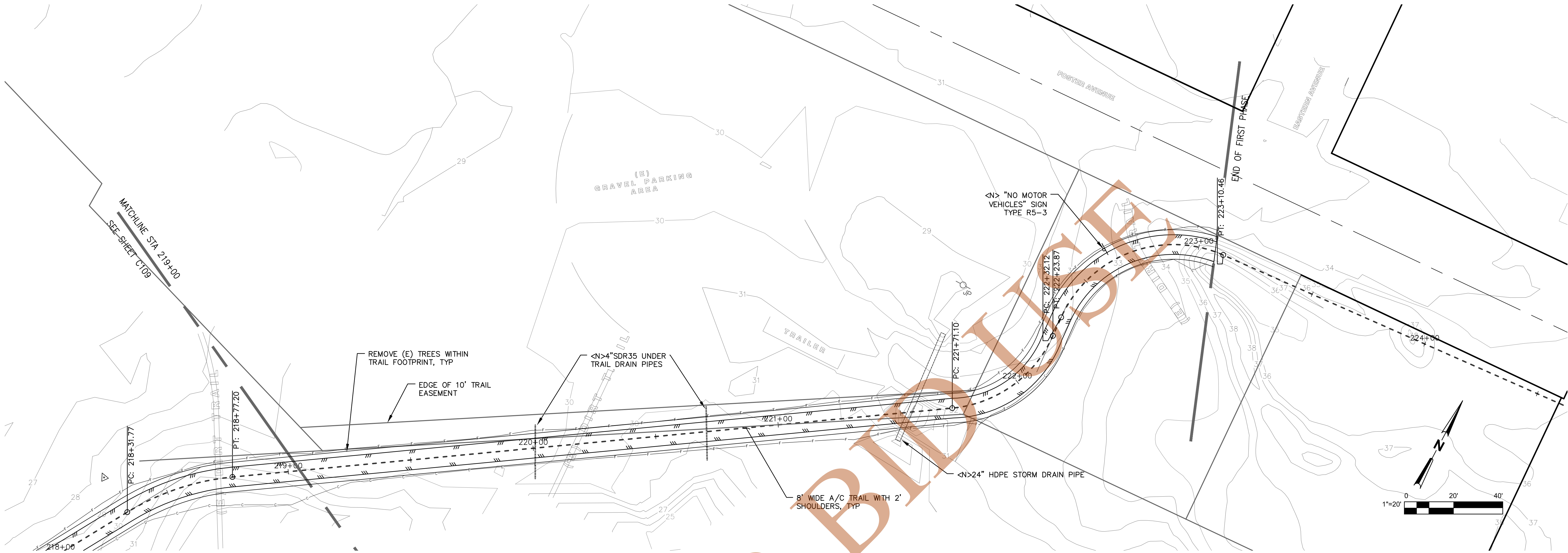
Plotted By:Terry Barney Plot Date: 12/8/2014 C3D_RwT_Main_2014-12-08.dwg



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NO.	DATE	REVISION
1	12/8/2014	Comments from client

Plan & Profile Sta 214+00 to 219+00
ARCATA RAILS WITH TRAILS
Date: 12/8/2014
Scale: 1" = 20'
Sheet No. 10 OF 34
Drawing **C109**



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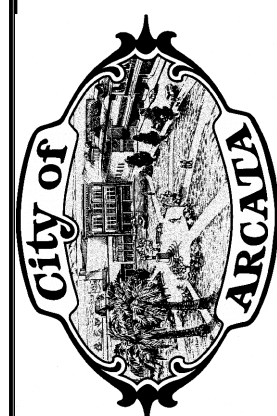
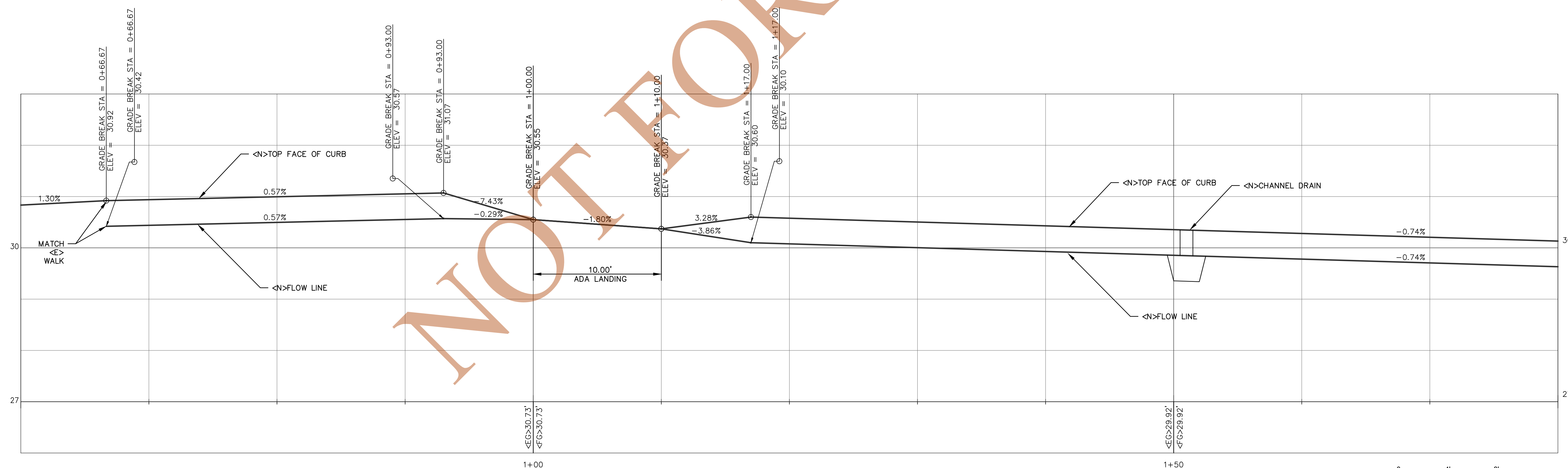
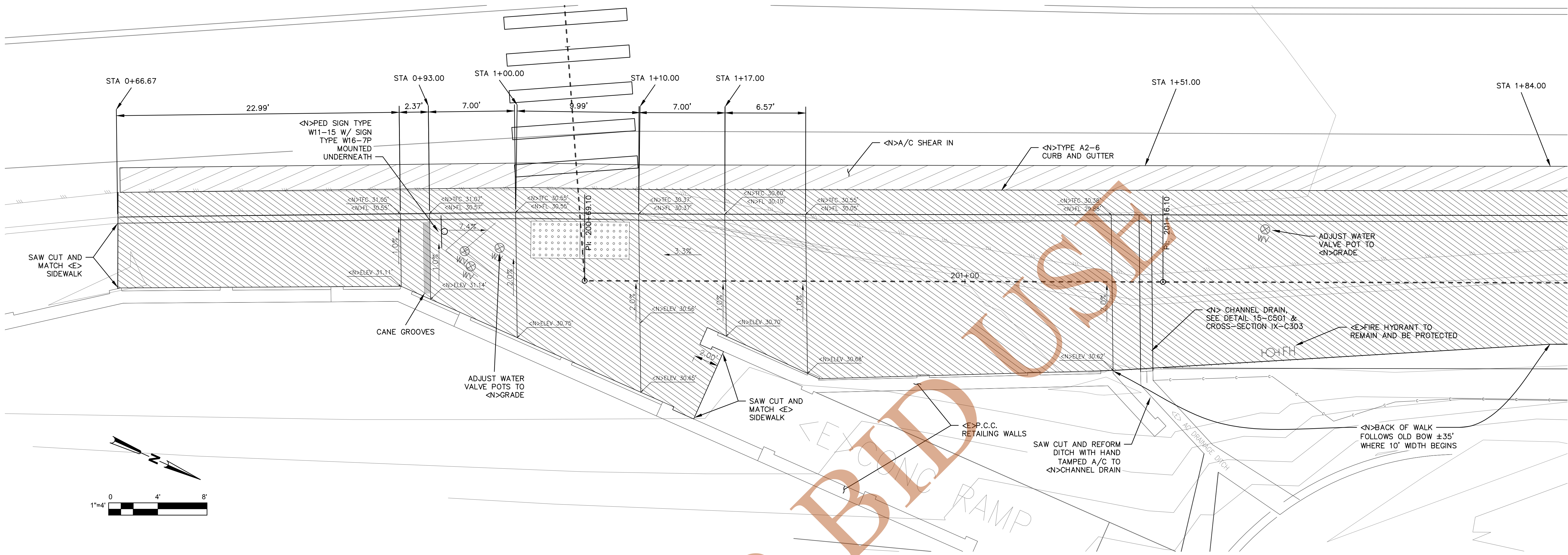
NO.	DATE	REVISION
1	12/8/2014	Comments from client

Plan & Profile Sta 219+00 to 223+00

ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
1" = 20'
Sheet No.
11 OF 34
Drawing
C110

Plotted By: Terry Barney Plot Date: 12/8/2014 C3D_RwT_Main_2014-12-08.dwg



PREPARED BY:
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ENGINEERING DEPARTMENT

NO.	DATE	REVISION	BY
1	12/8/2014	Comments from client	CB

Plan & Profile Alliance Road Crossing
ARCATA RAILS WITH TRAILS

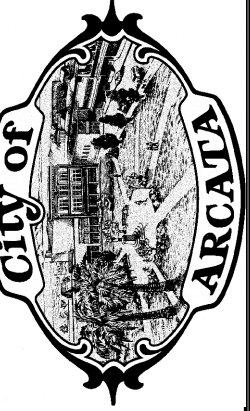
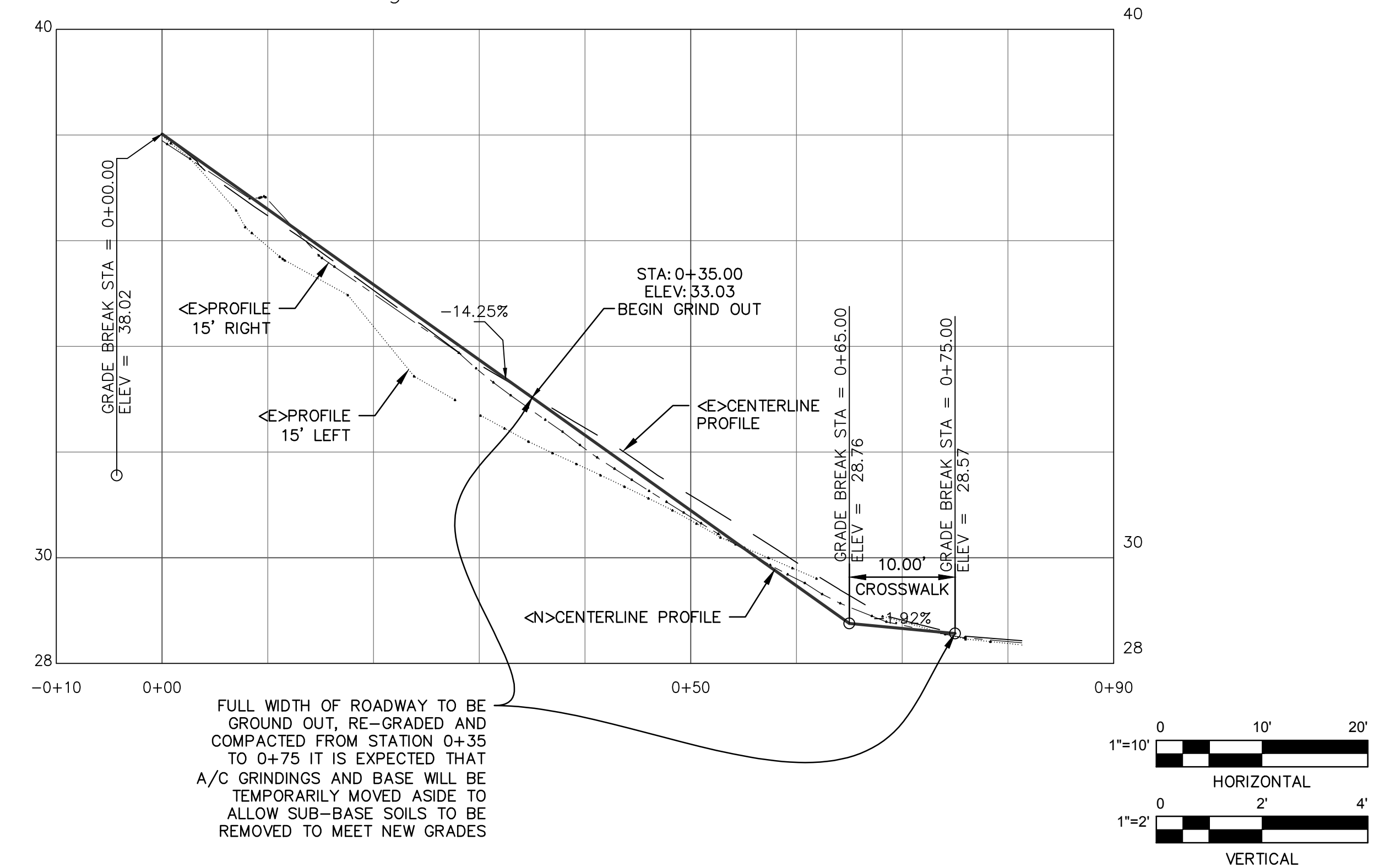
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12/8/2014
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Sheet No.
12 OF 34
Drawing
C111



15TH ST. & ALLIANCE RD. SEE SHEET C405



Alignment -15thStreet PROFILE

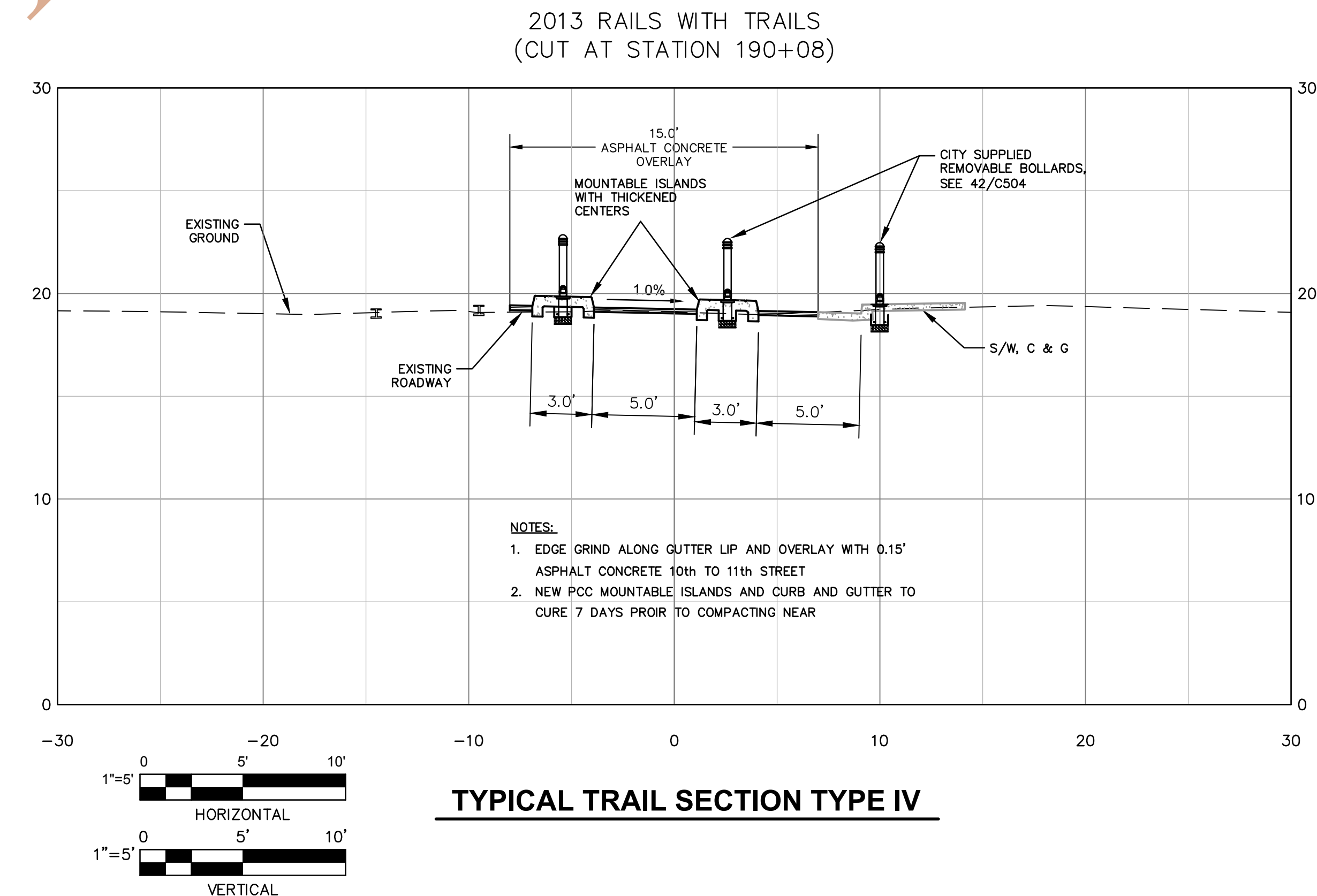
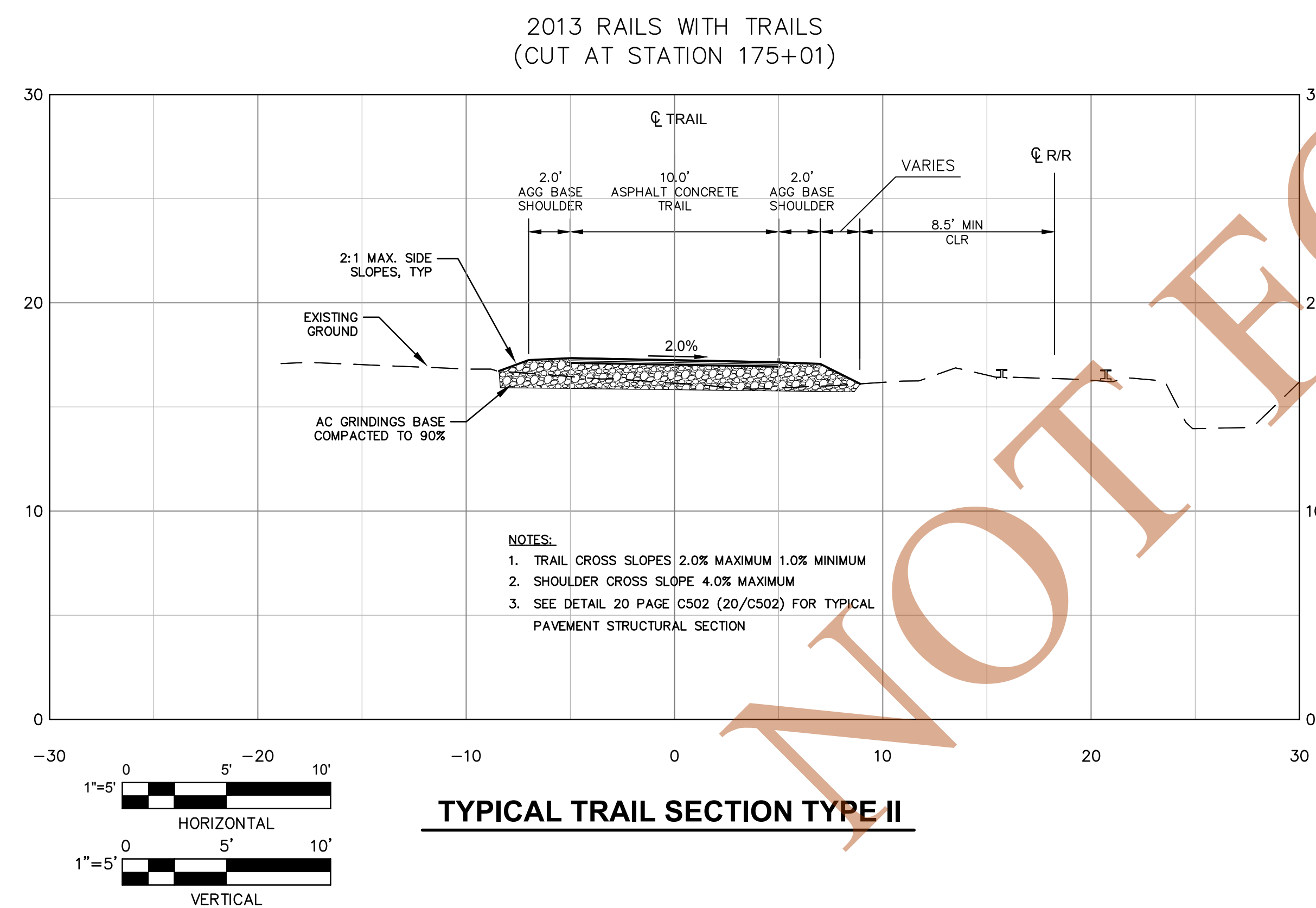
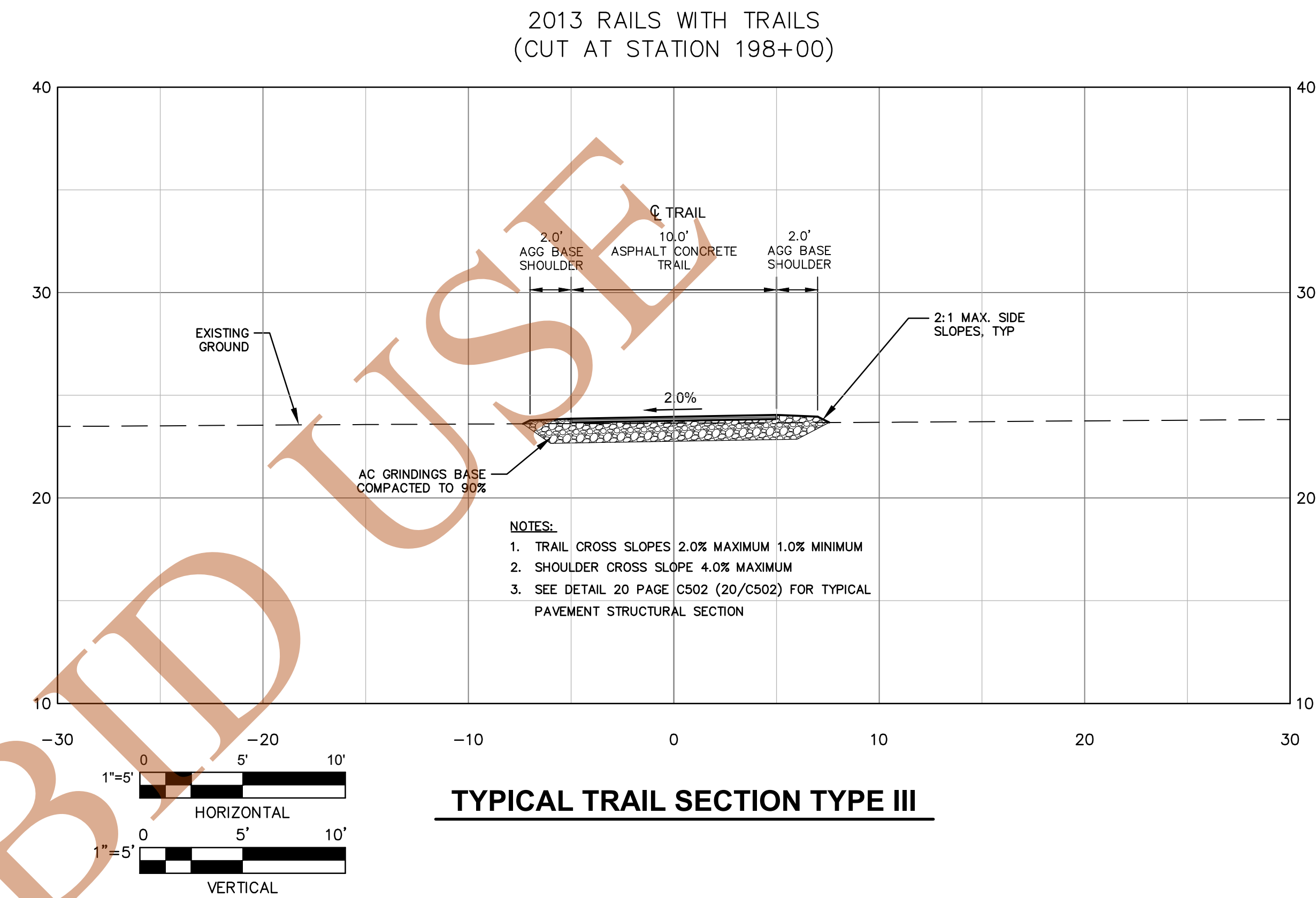
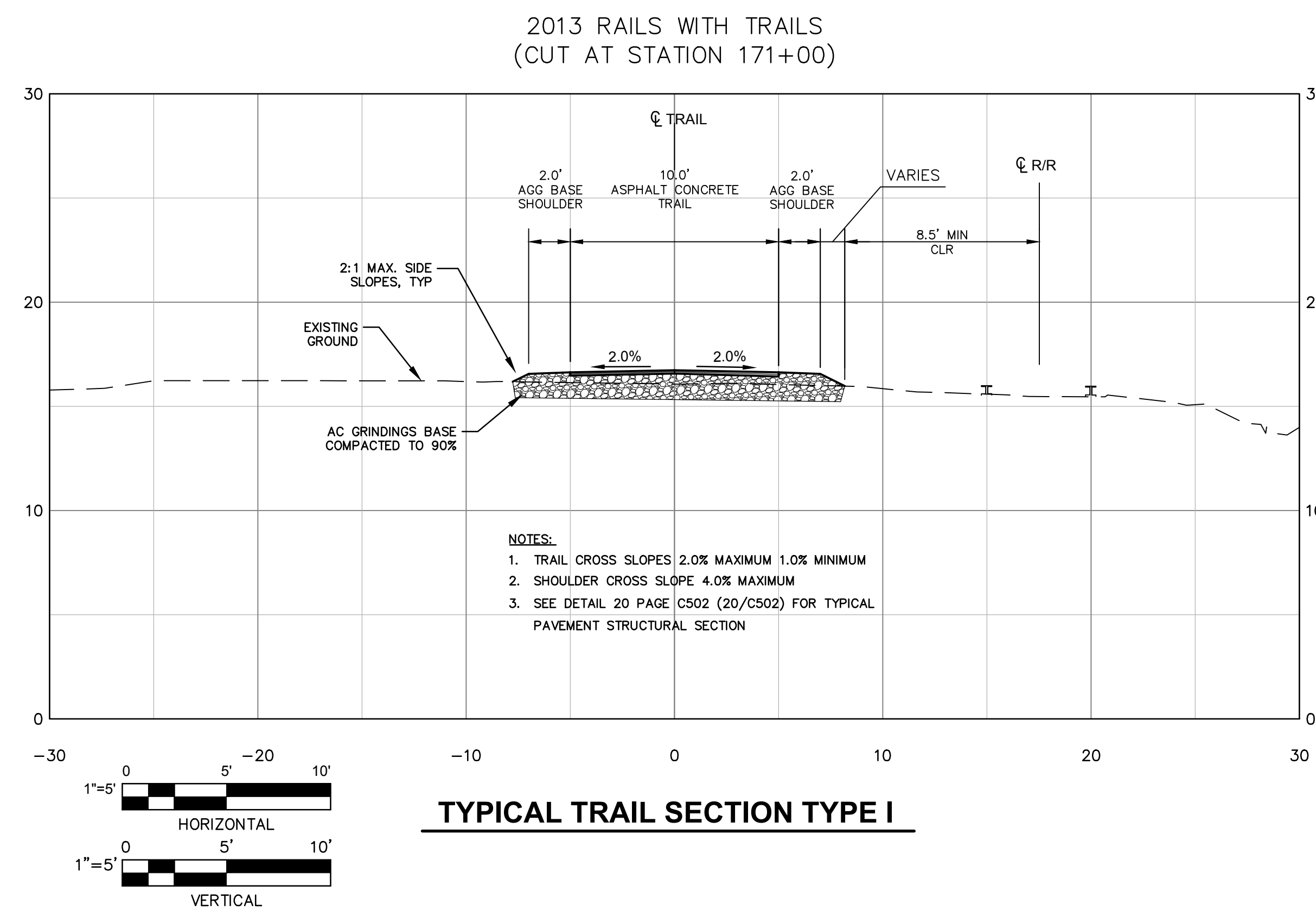


PREPARED BY:
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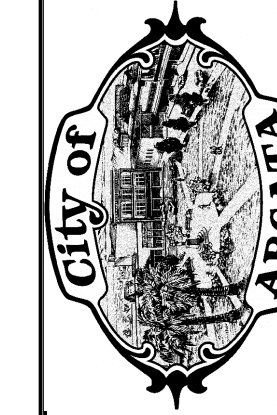
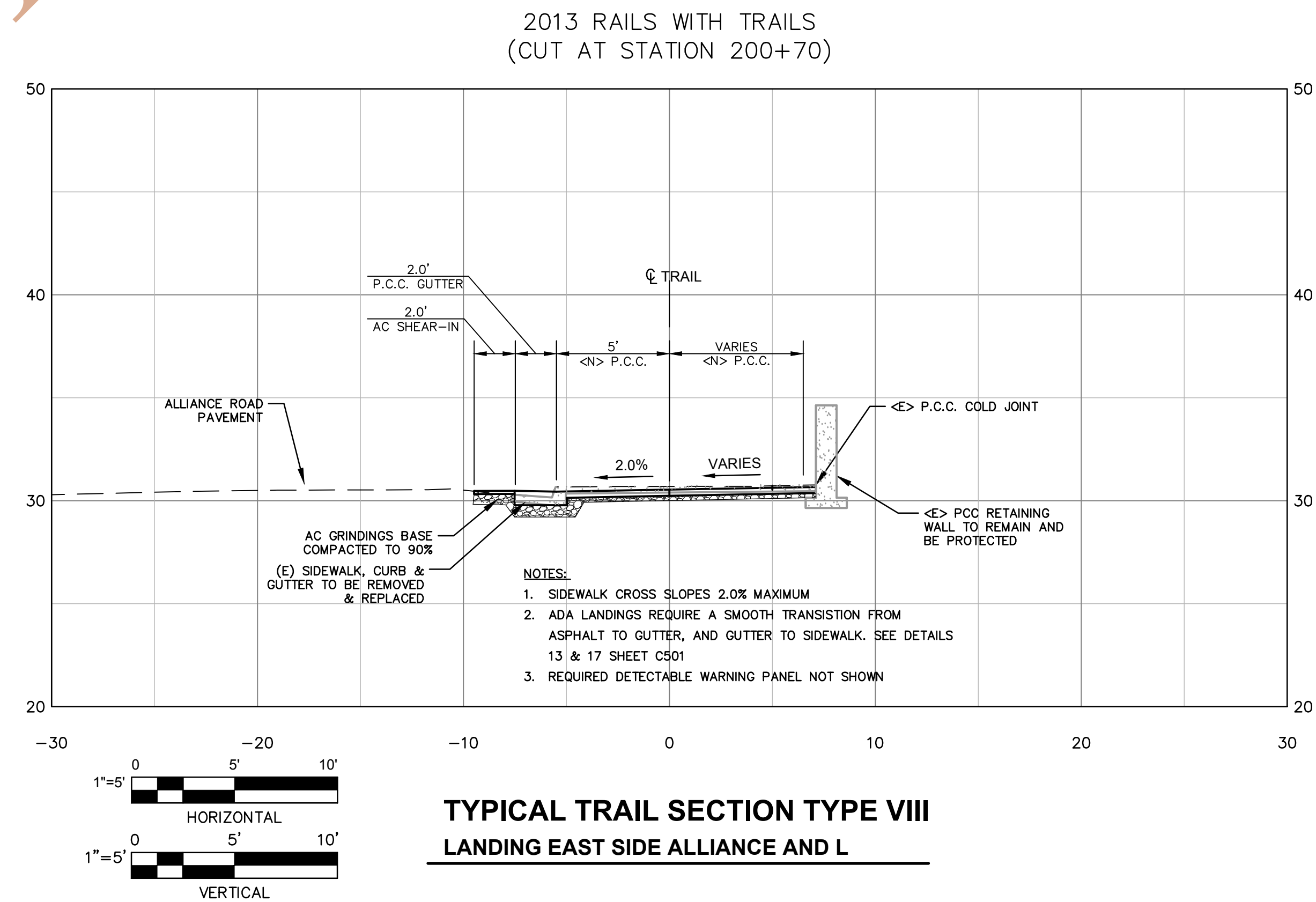
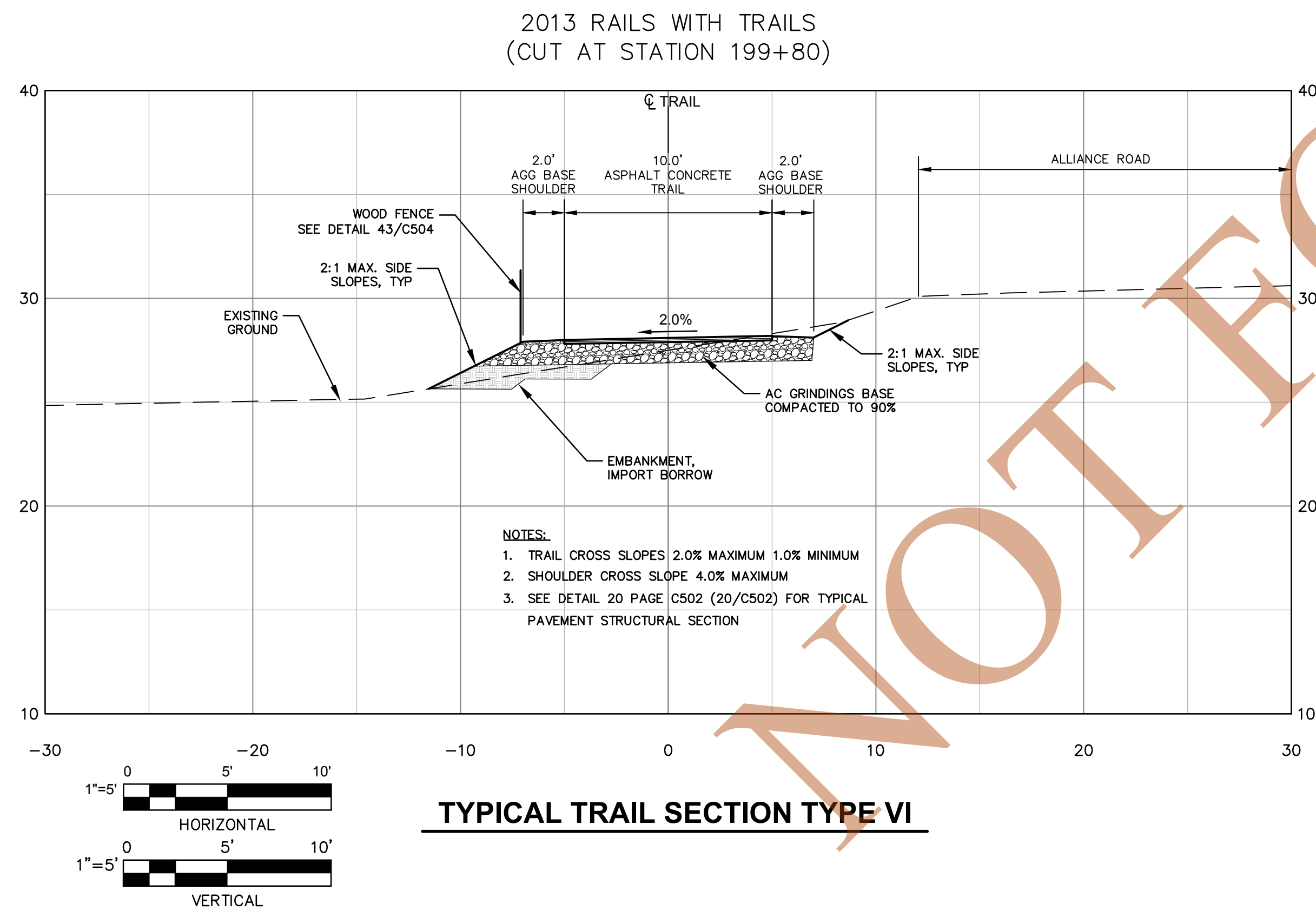
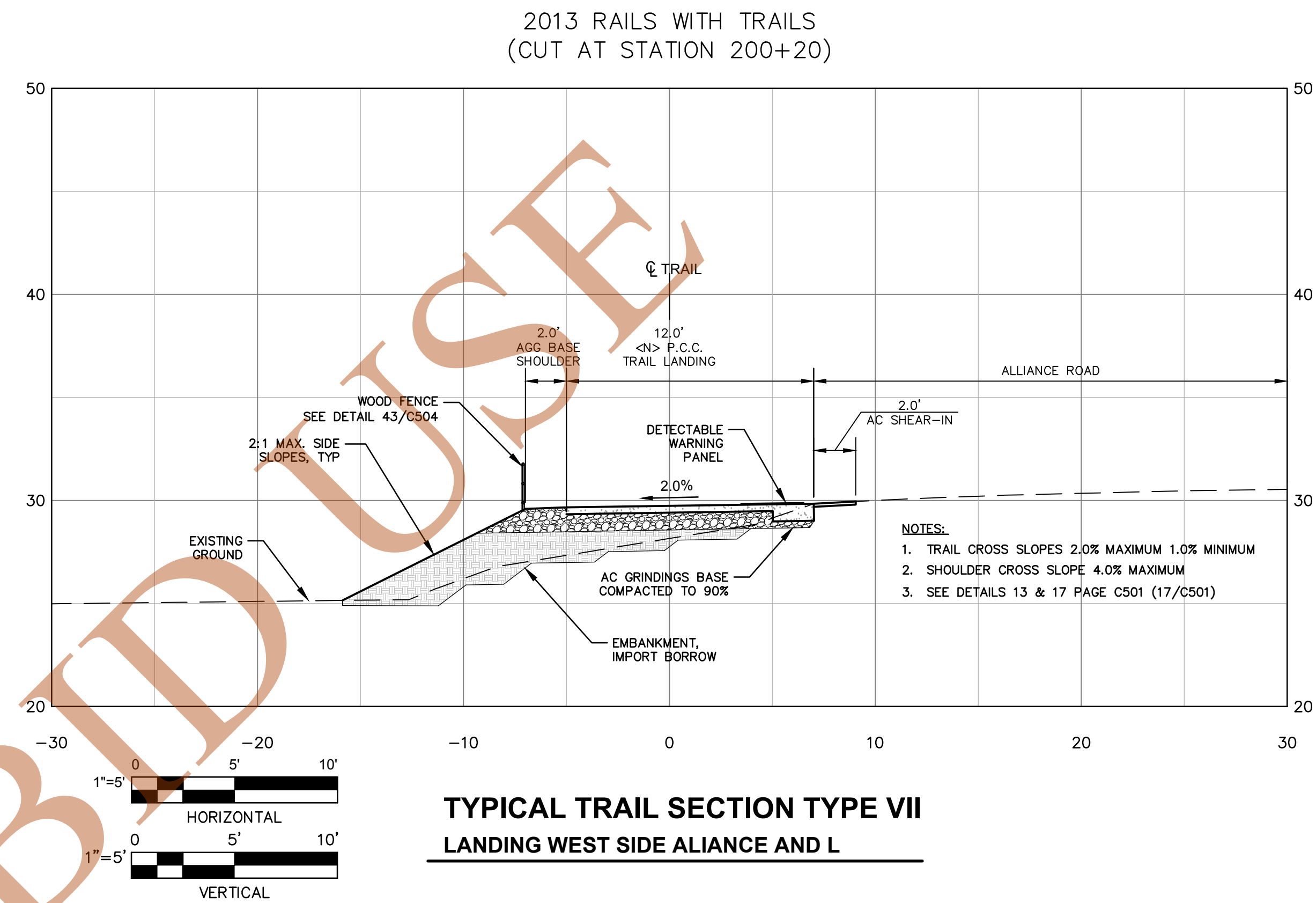
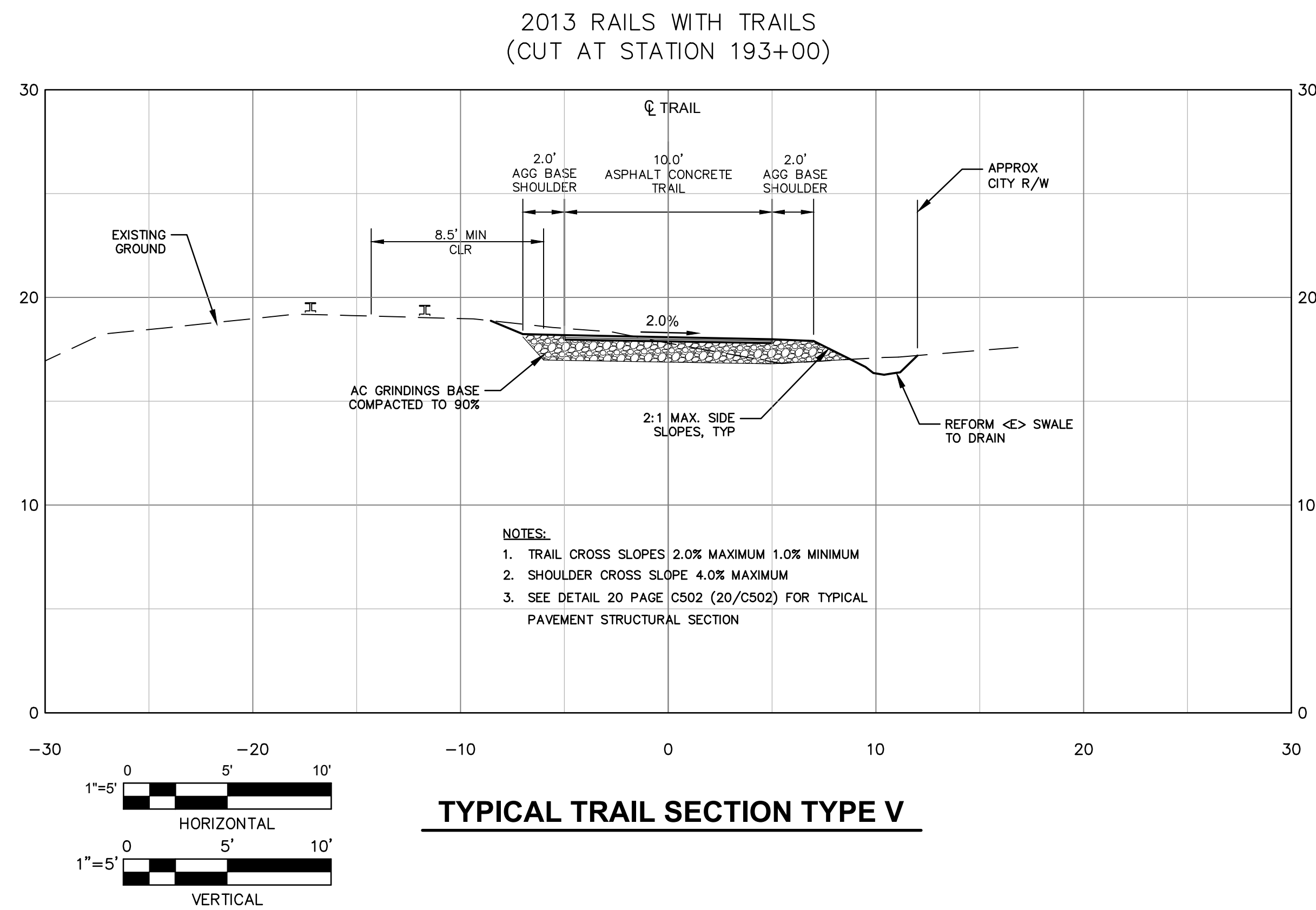
NO.	DATE	REVISION	BY
1	12/8/2014	Comments from client	CSB

Plan & Profile 15th and Alliance
ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
1" = 10'
Sheet No.
13 OF 34
Drawing
C112



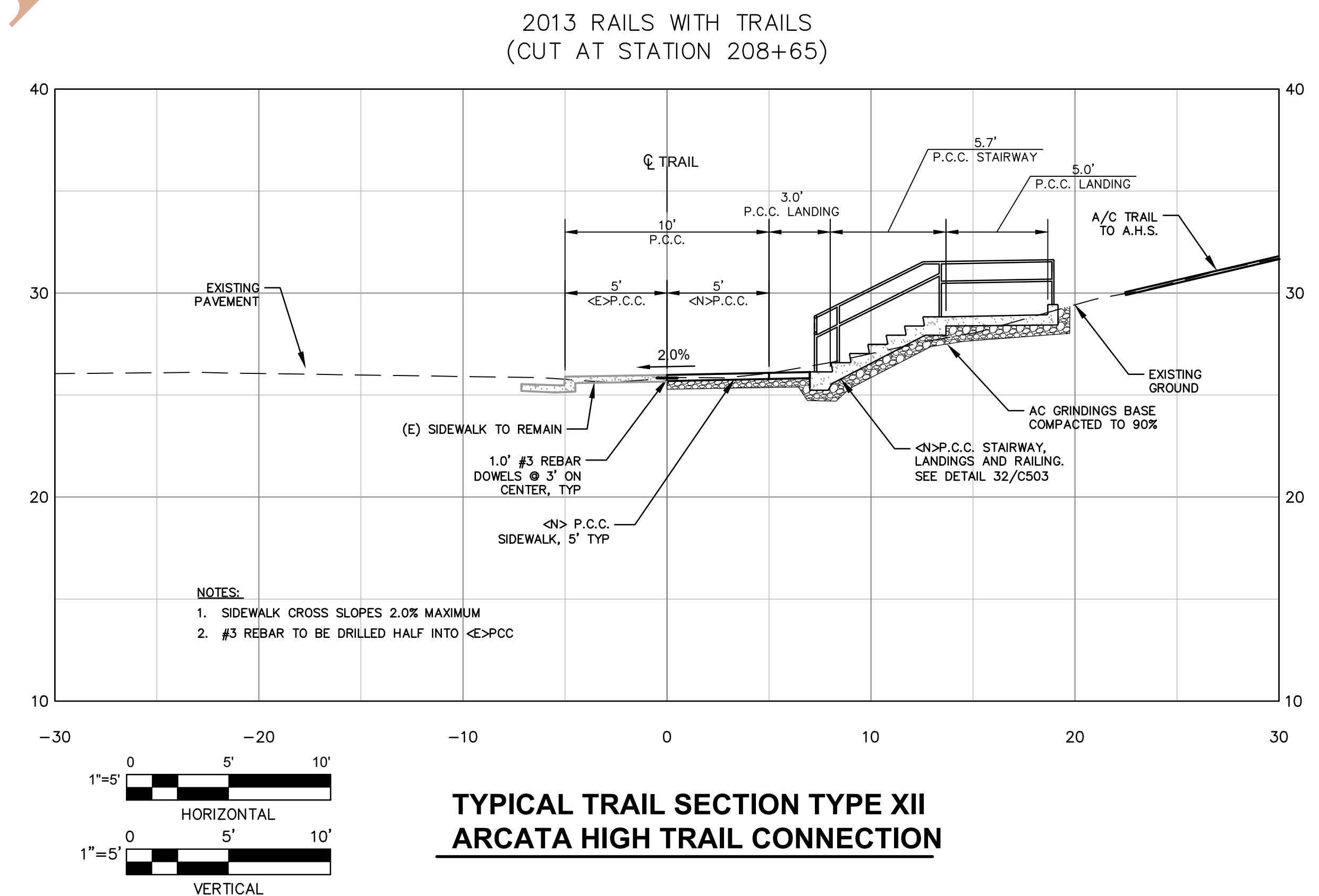
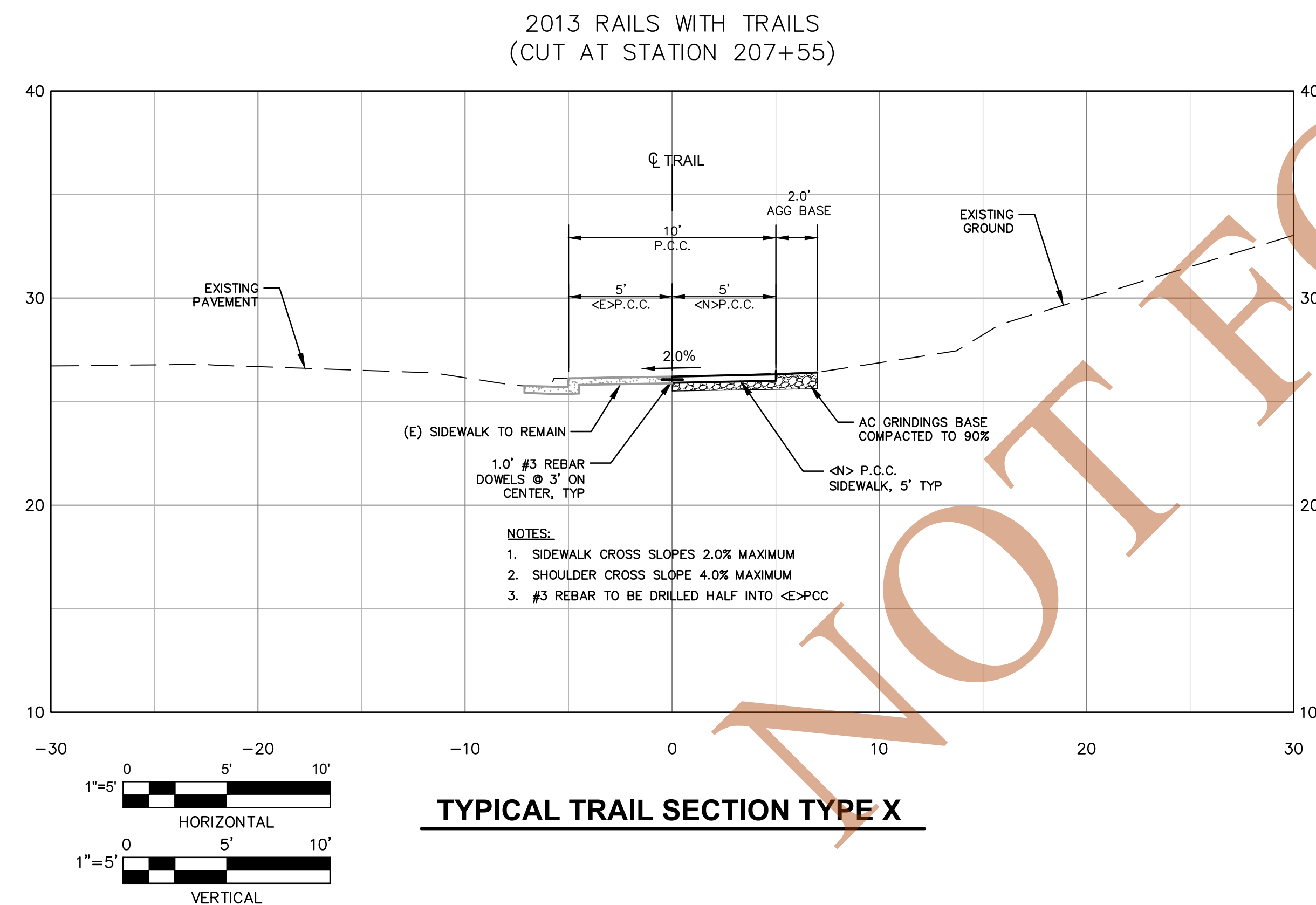
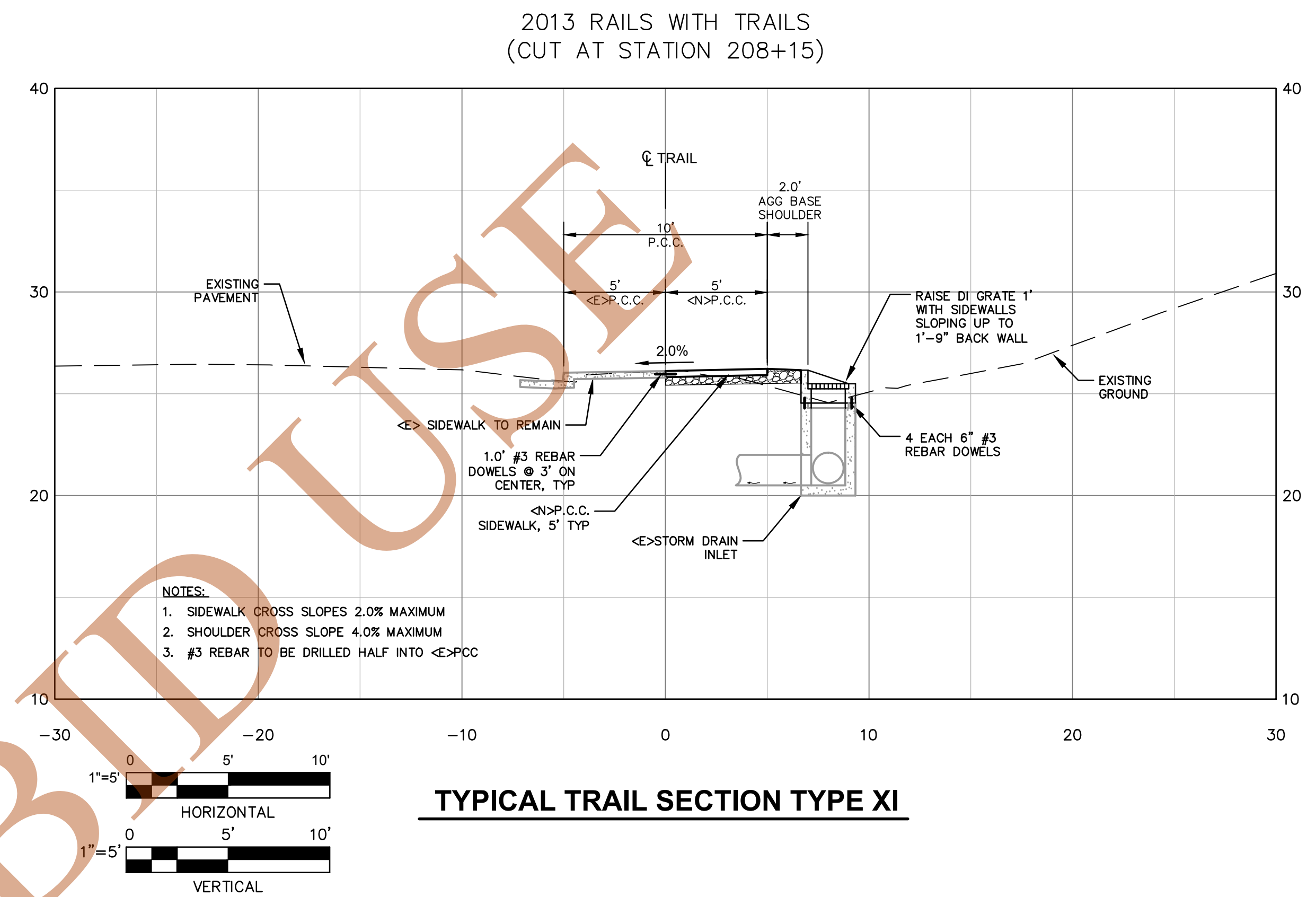
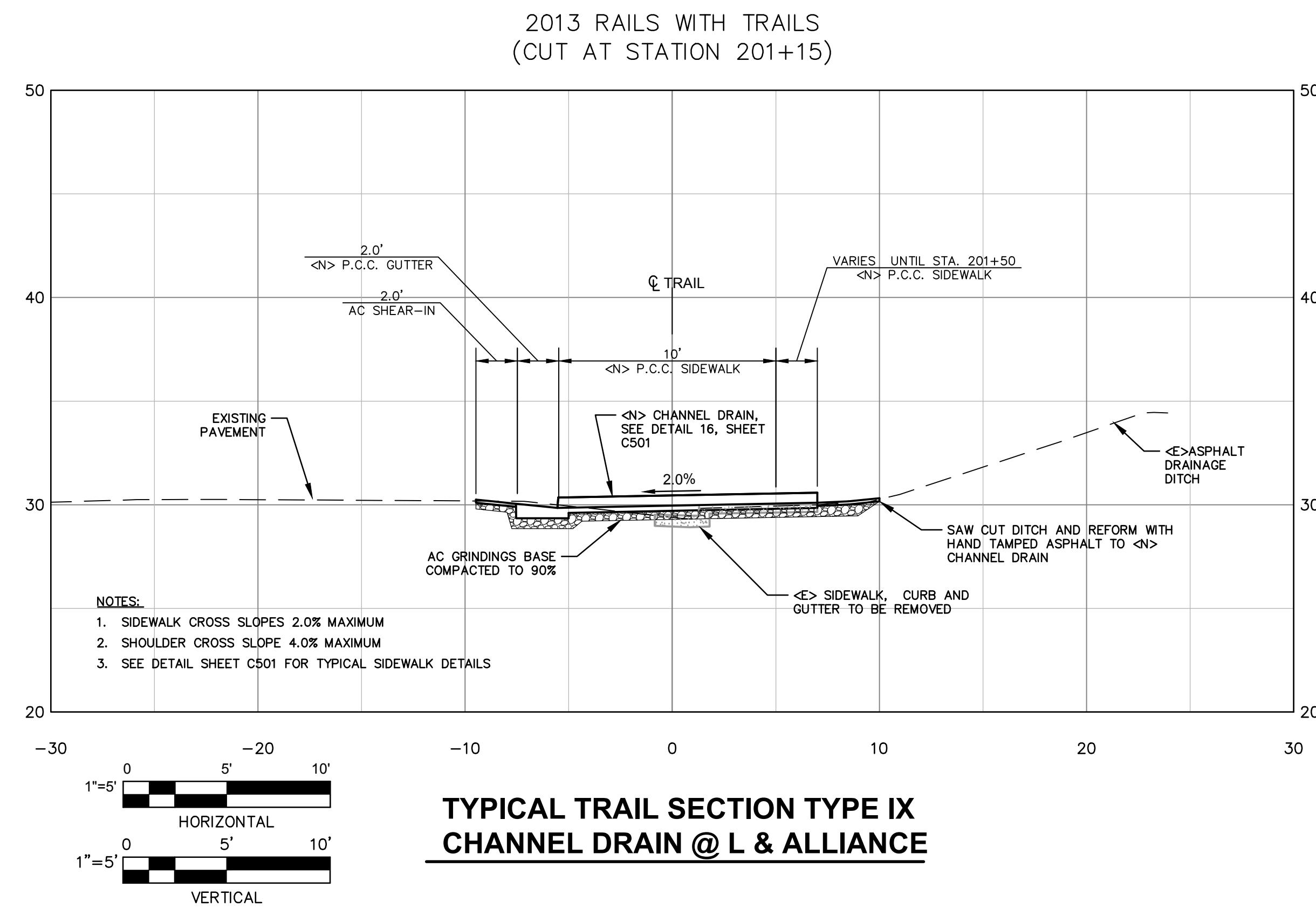
Plotted By: Terry Barney Plot Date: 12/8/2014 C3D_RwT_X-Sect_2014-12-08.dwg

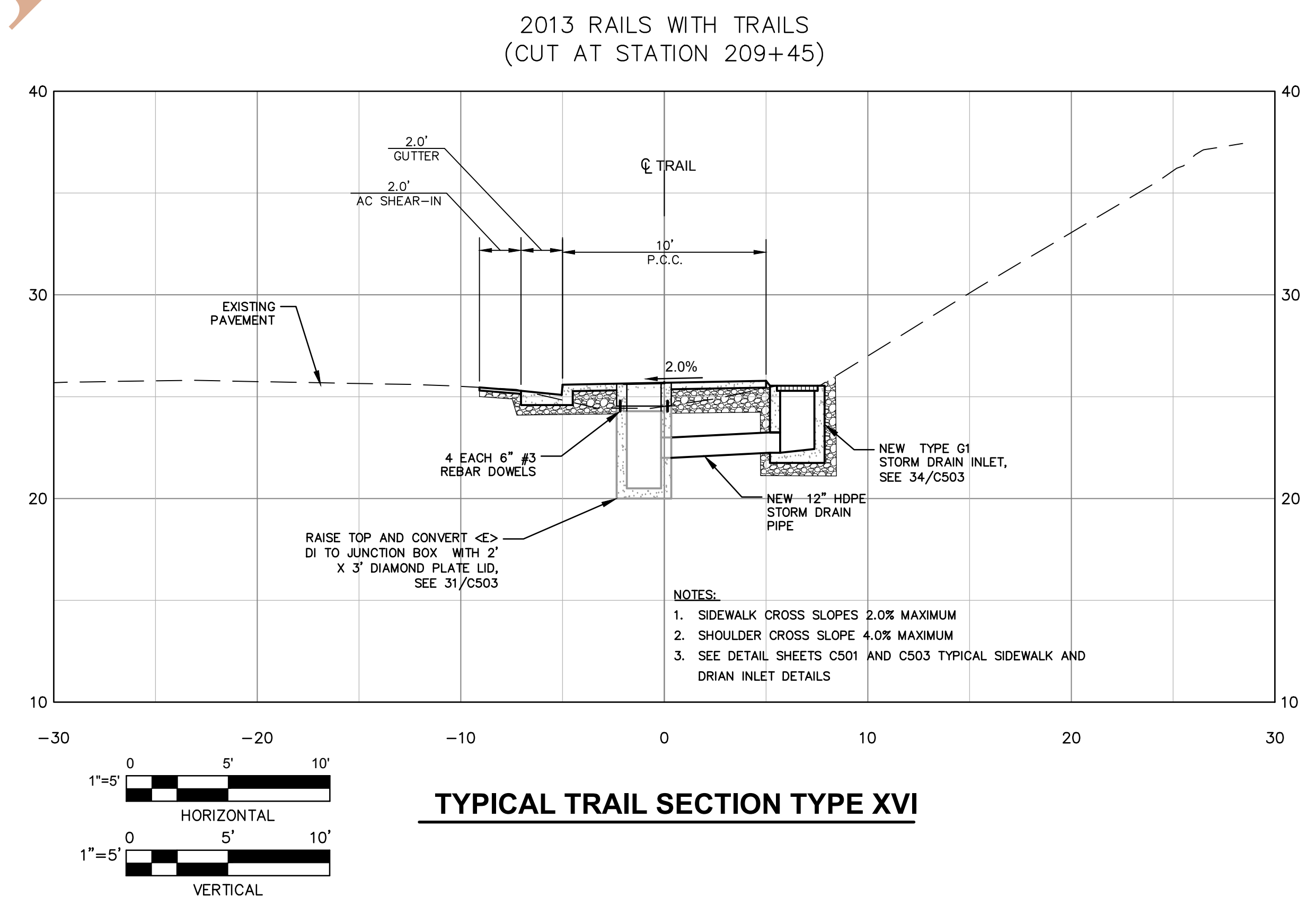
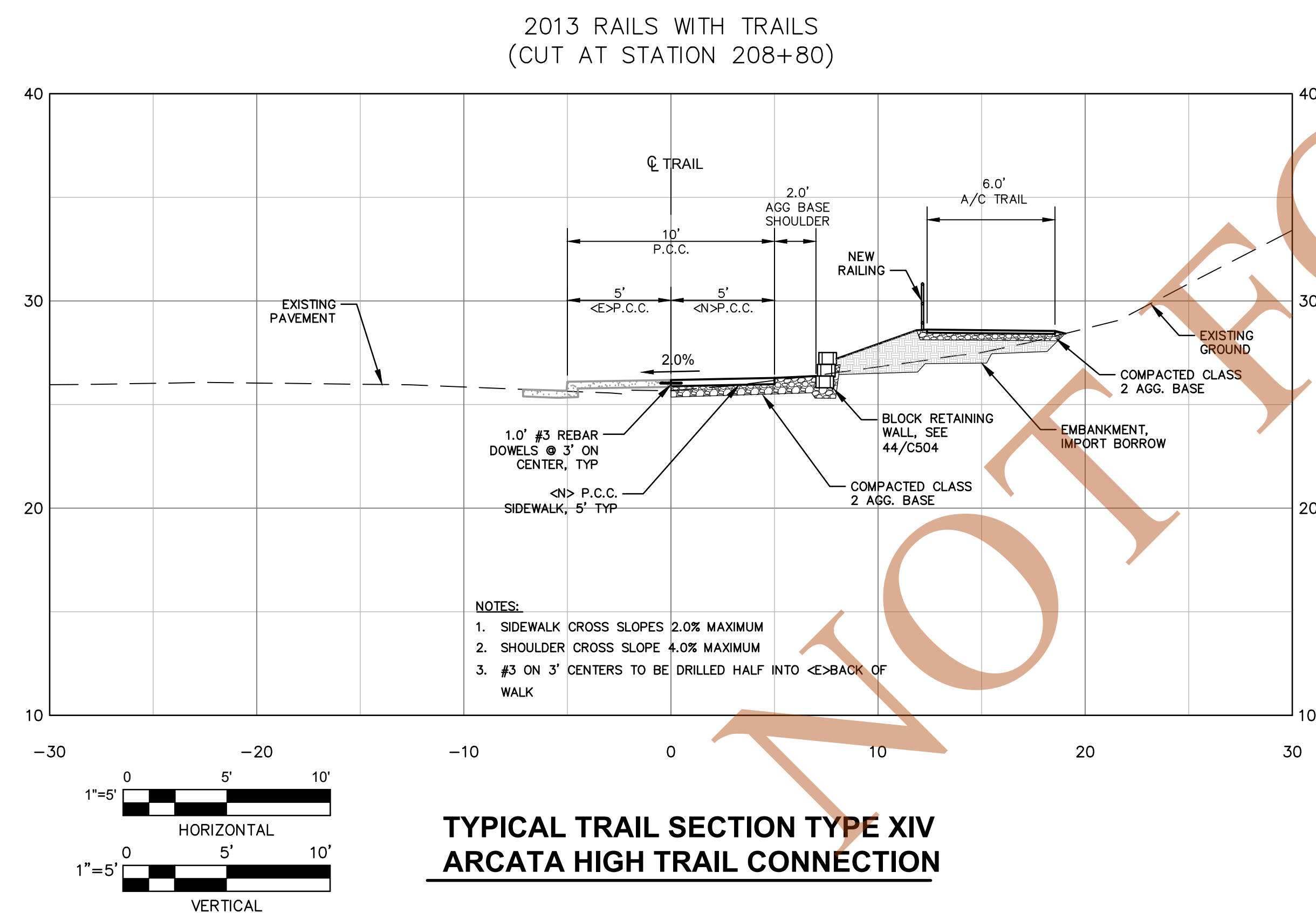
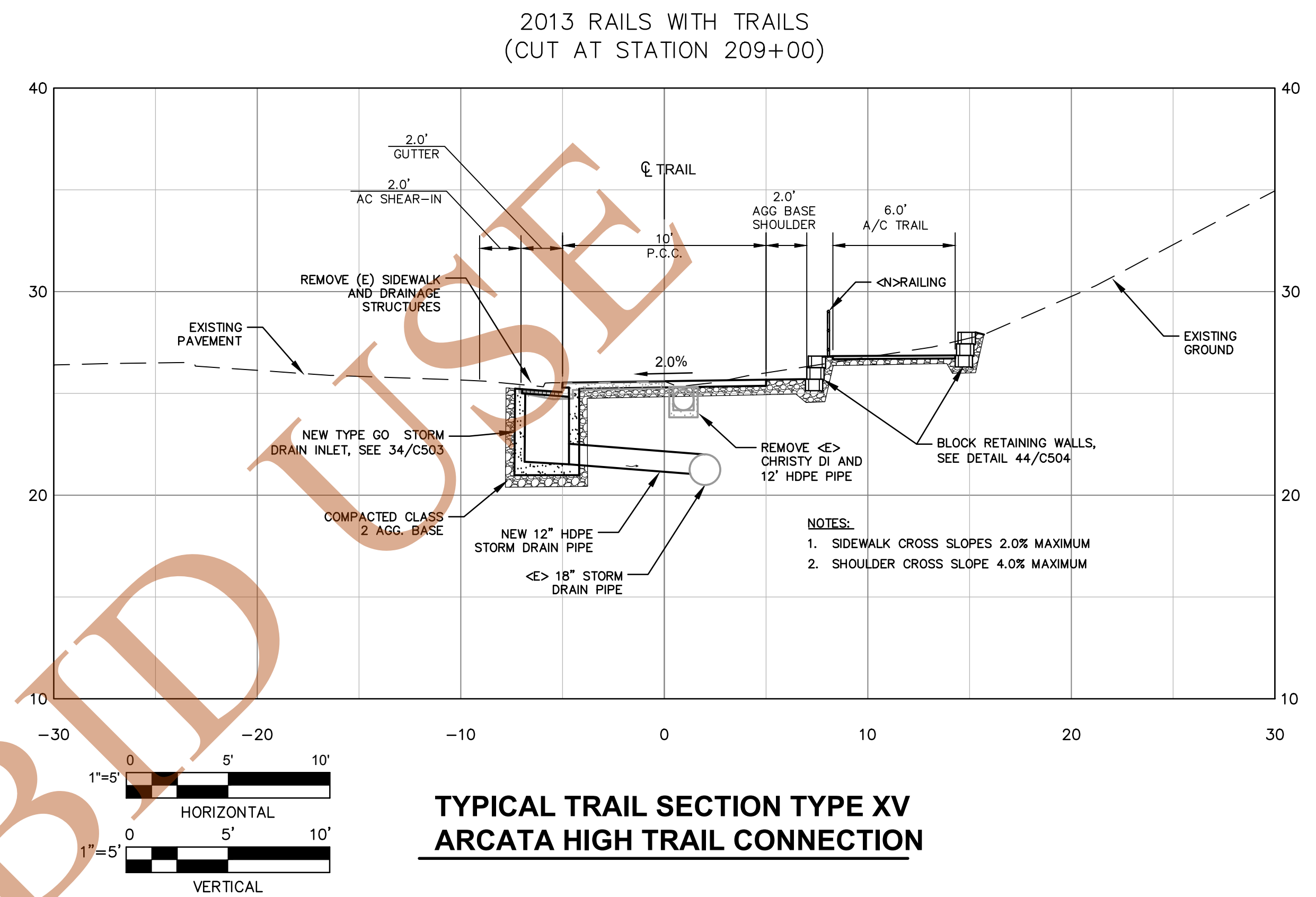
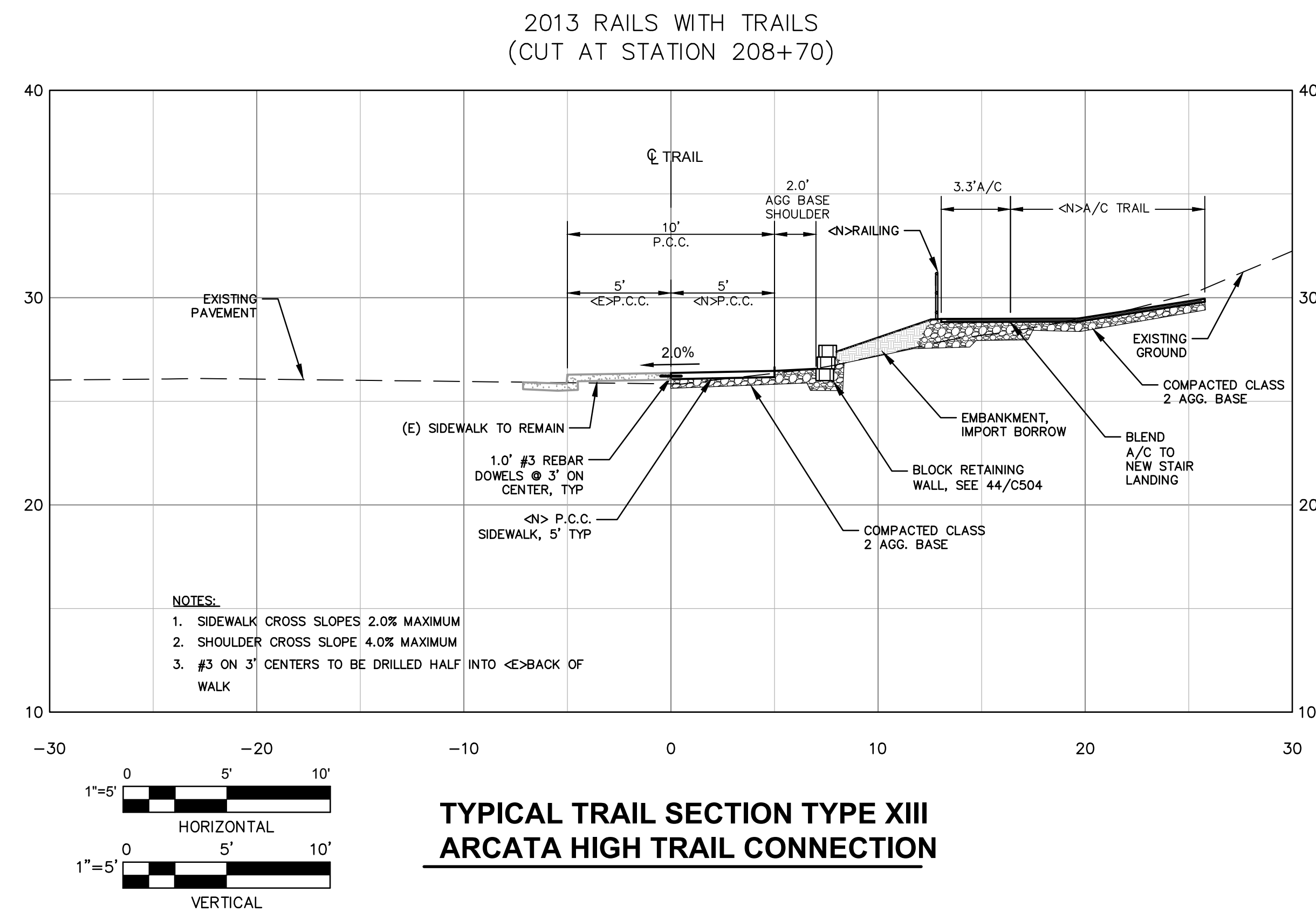


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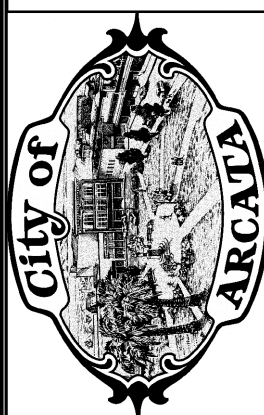
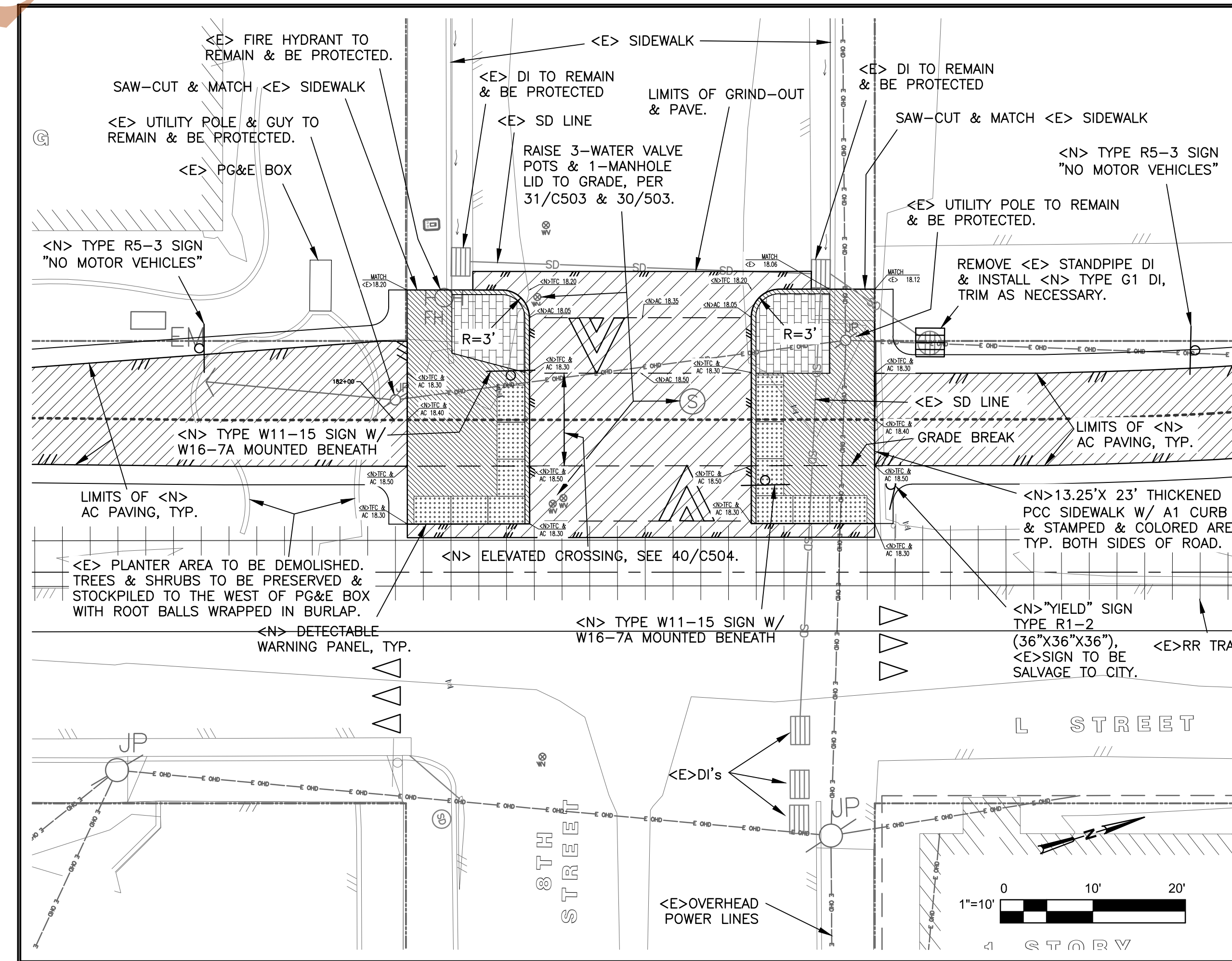
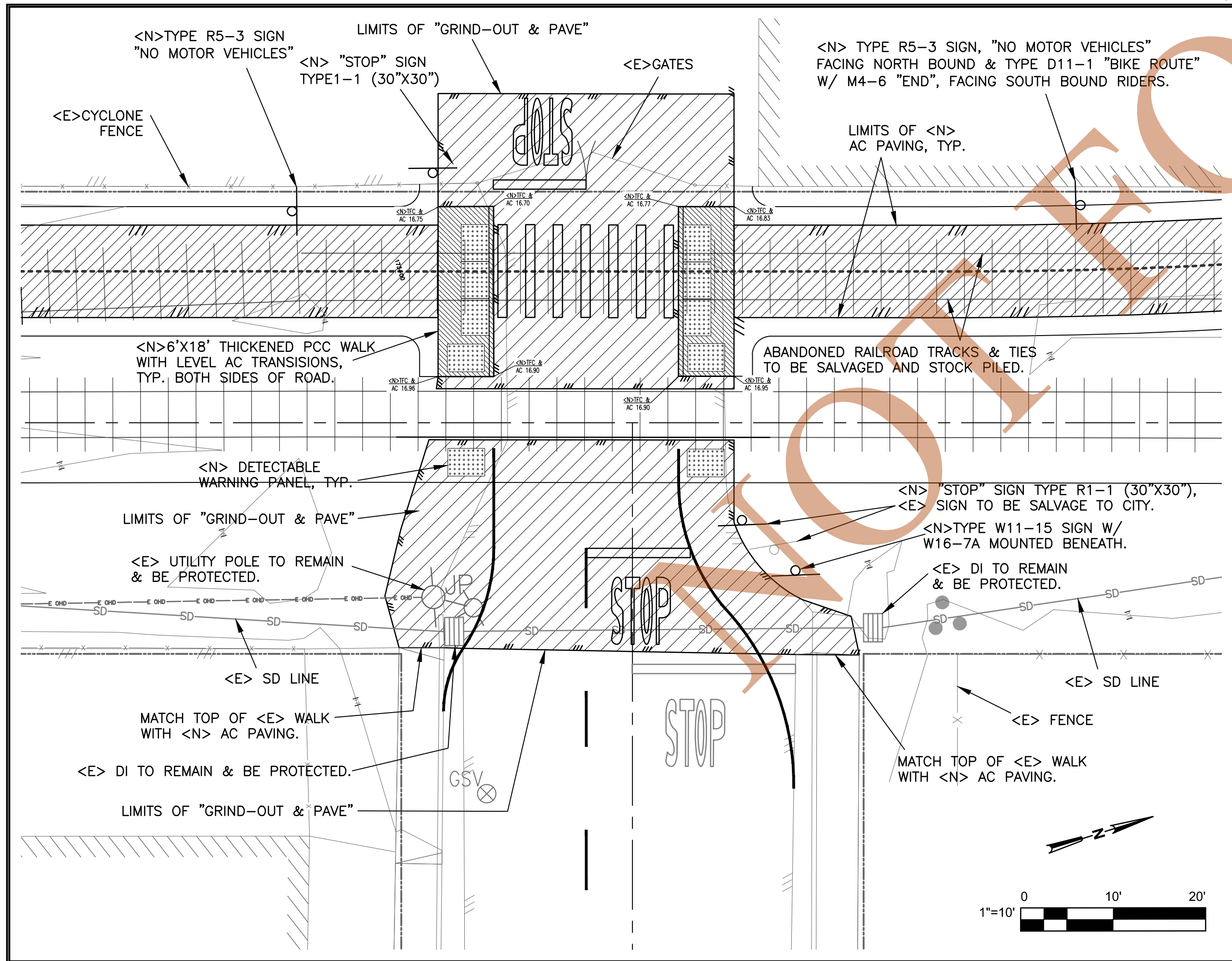
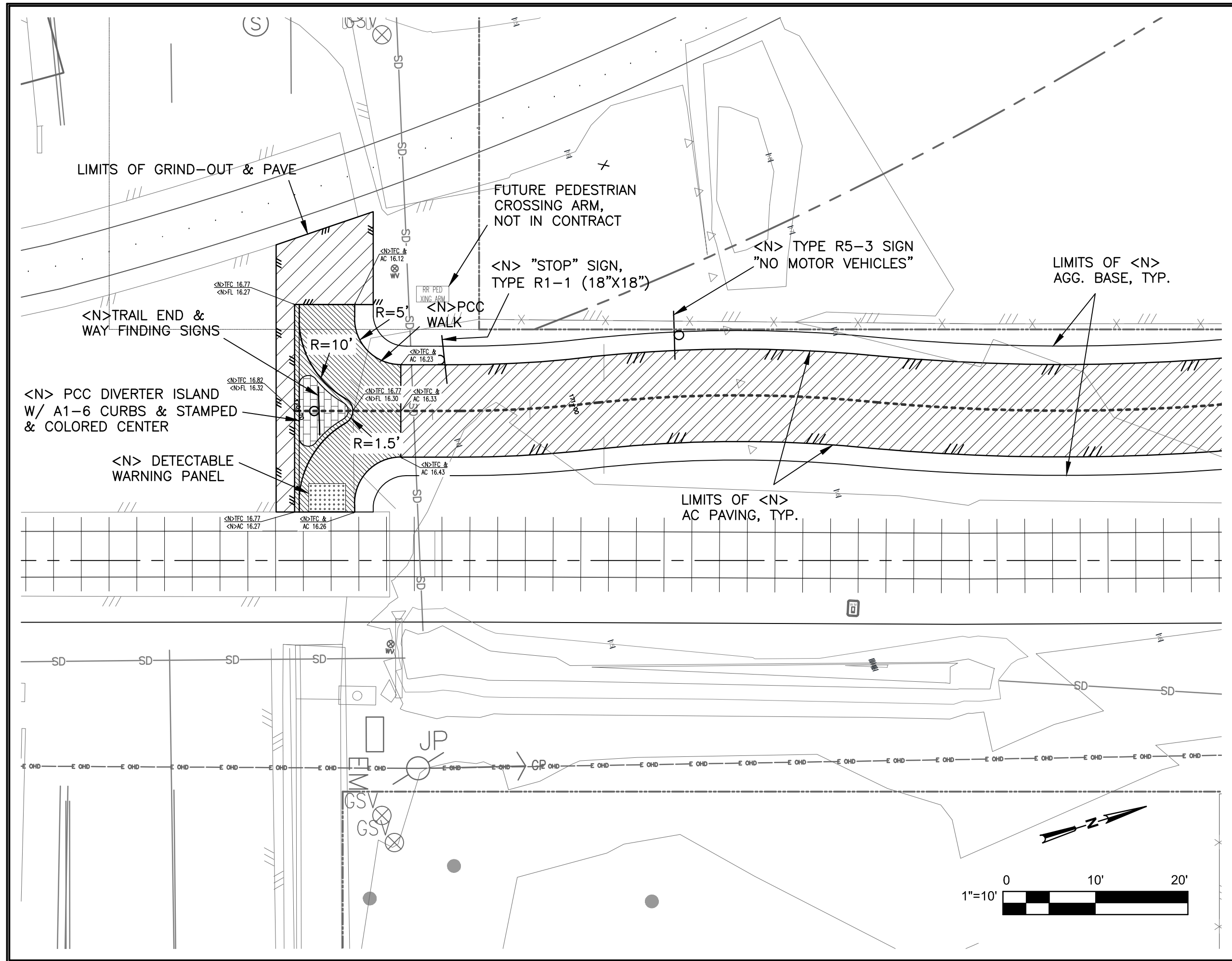
Cross Sections
ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
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Sheet No.
15 OF 34
Drawing
C302





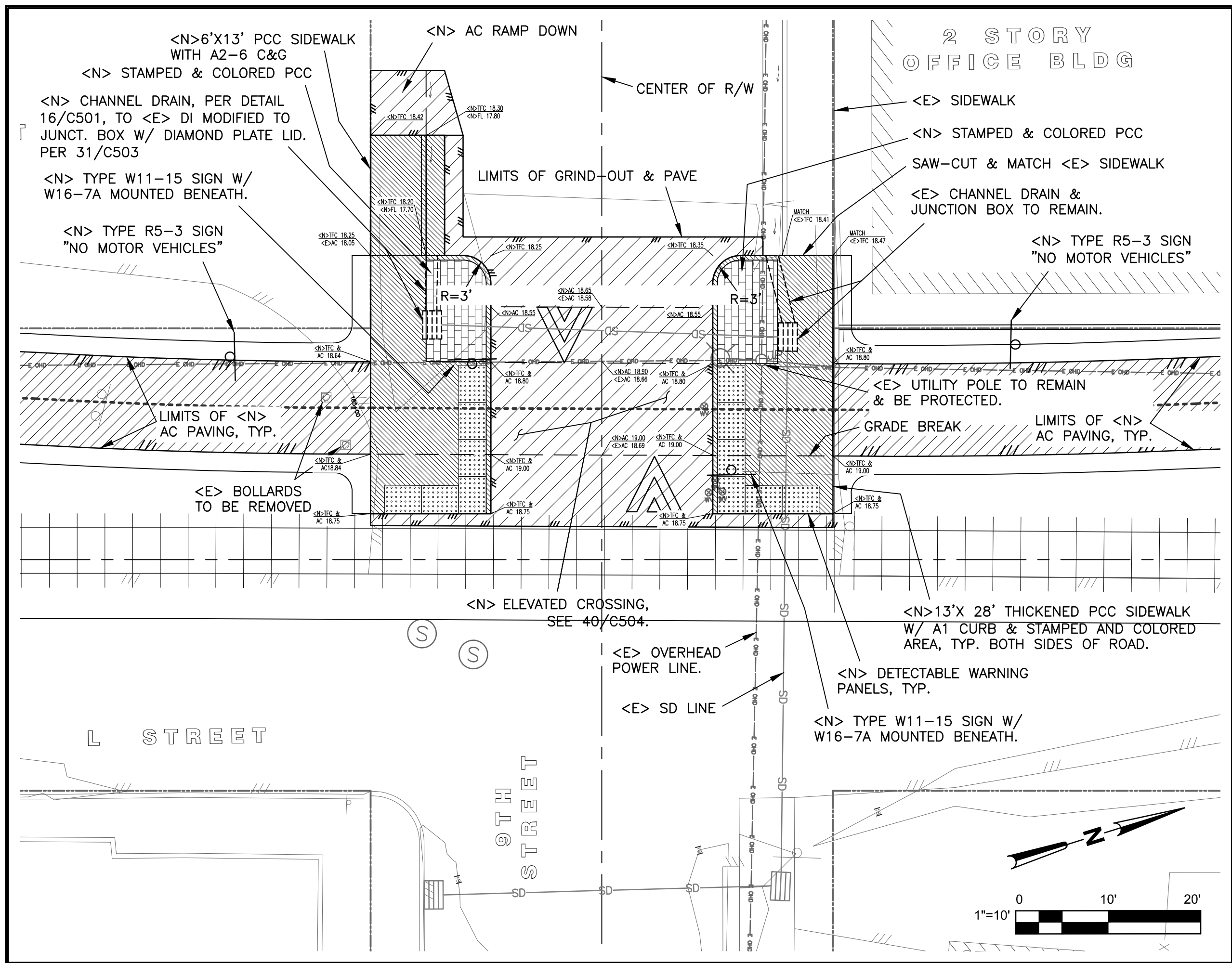
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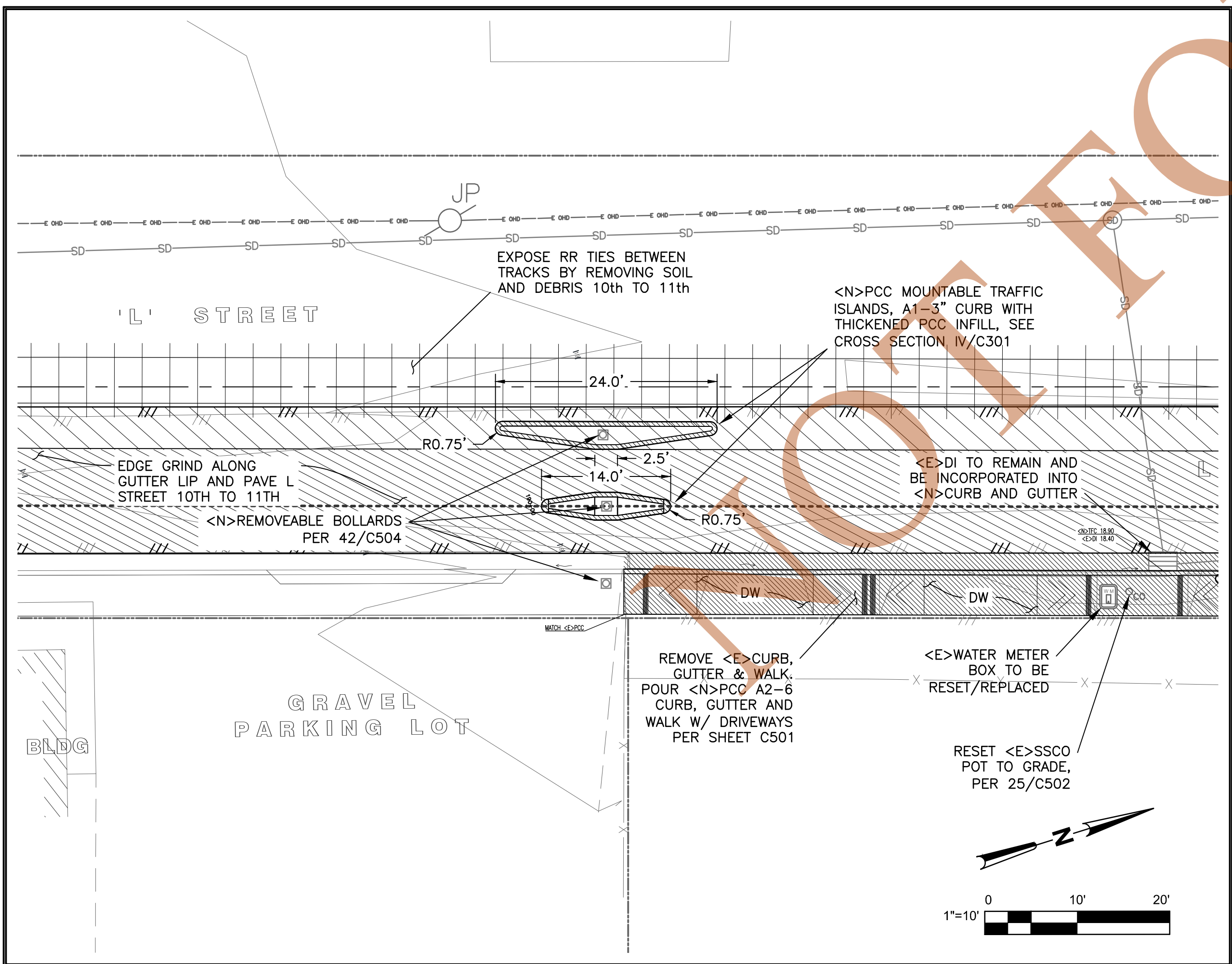
PREPARED BY:
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ENGINEERING DEPARTMENT

Enlarged Plan: US255, 5th & 8th Street Crossings
ARCATA RAILS WITH TRAILS

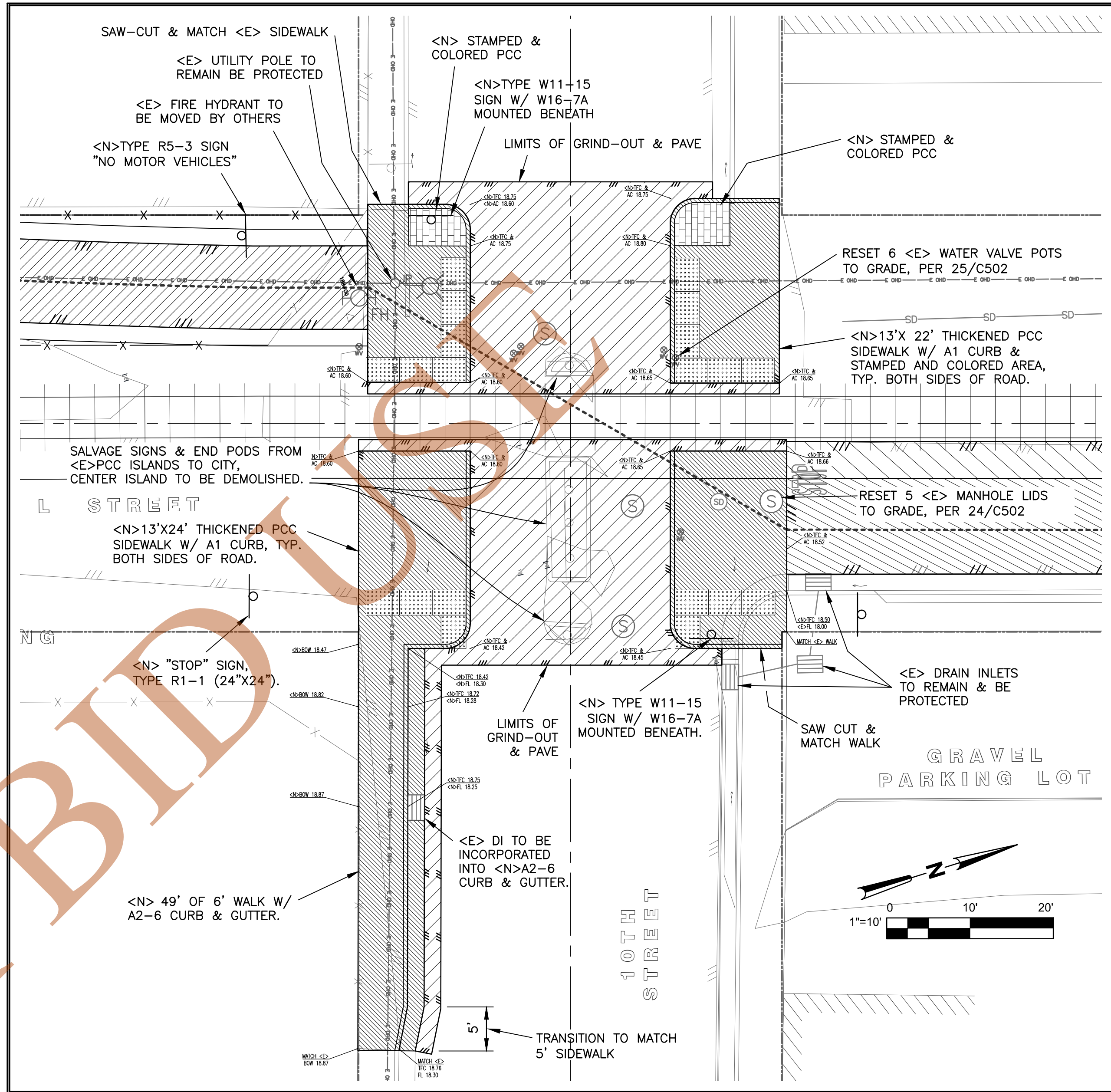
Date: 12/8/2014
Scale: 1" = 10'
Sheet No.: 19 OF 34
Drawing: C401



9TH ST. & L ST.



L ST. (MID-BLOCK) BETWEEN 10TH ST. & 11 ST.



10TH ST. & L ST.

LINE TYPE LEGEND:	
	<E> EDGE OF PAVEMENT
	EDGE OF NEW PAVING
	EDGE OF AREA TO BE GROUND AND REPAVED
	CENTER LINE OF TRAIL
	LIMITS OF FILL
	LIMITS OF CUT
	RIGHT OF WAY LINE (APPROXIMATE)
	WOOD FENCE
	PIPE RAILING
	WATER MAIN
	SANITARY SEWER(SS) MAIN
	STORM DRAIN CULVERT/PIPE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC

BLOCK TYPE LEGEND:	
	SANITARY SEWER MANHOLE(SSMH)
	SANITARY SEWER CLEANOUT(SSCO)
	STORM DRAIN MANHOLE(SDMH)
	STORM DRAIN INLET(DI)
	DRAINAGE FLOW DIRECTION
	WATER METER BOX
	WATER VALVE
	FIRE HYDRANT
	UTILITY POLE
	STREET LIGHT POLE
	GUY WIRE
	STREET SIGN
	CENTER LINE MONUMENT
	ADA RAMP DOWN AND CANE GROVES
	DETECTABLE WARNING PANELS(TRUNCATED DOMES)
	DROP BACK DRIVEWAY, SEE 26/C502
	WALK AROUND DRIVEWAY, SEE 24/C502

HATCHING LEGEND:	
	<N>PORTLAND CEMENT CONCRETE(PCC) AREA
	<N>STAMPED AND COLORED PCC AREA
	<N>ASPHALT CONCRETE(AC) PAVING AREA
	GRIND <E>AC REMOVE/REGRADE AND PAVE AREA
	CLASS 2 AGGREGATE BASE
	IMPORT FILL MATERIAL
	PORTLAND CEMENT CONCRETE(PCC)

LINE TYPE LEGEND:

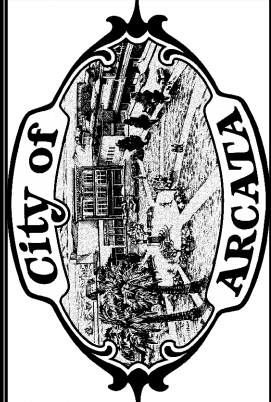
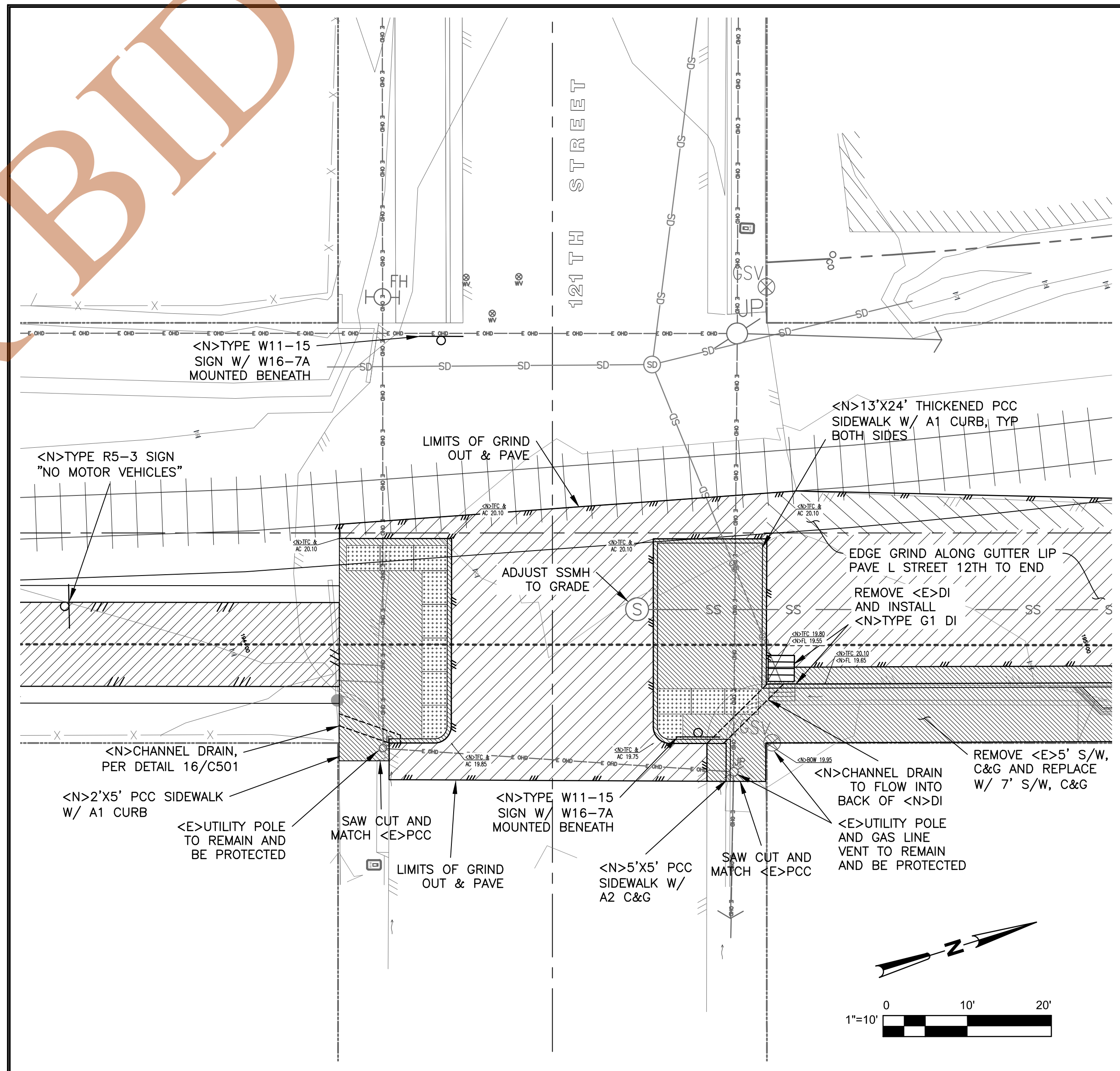
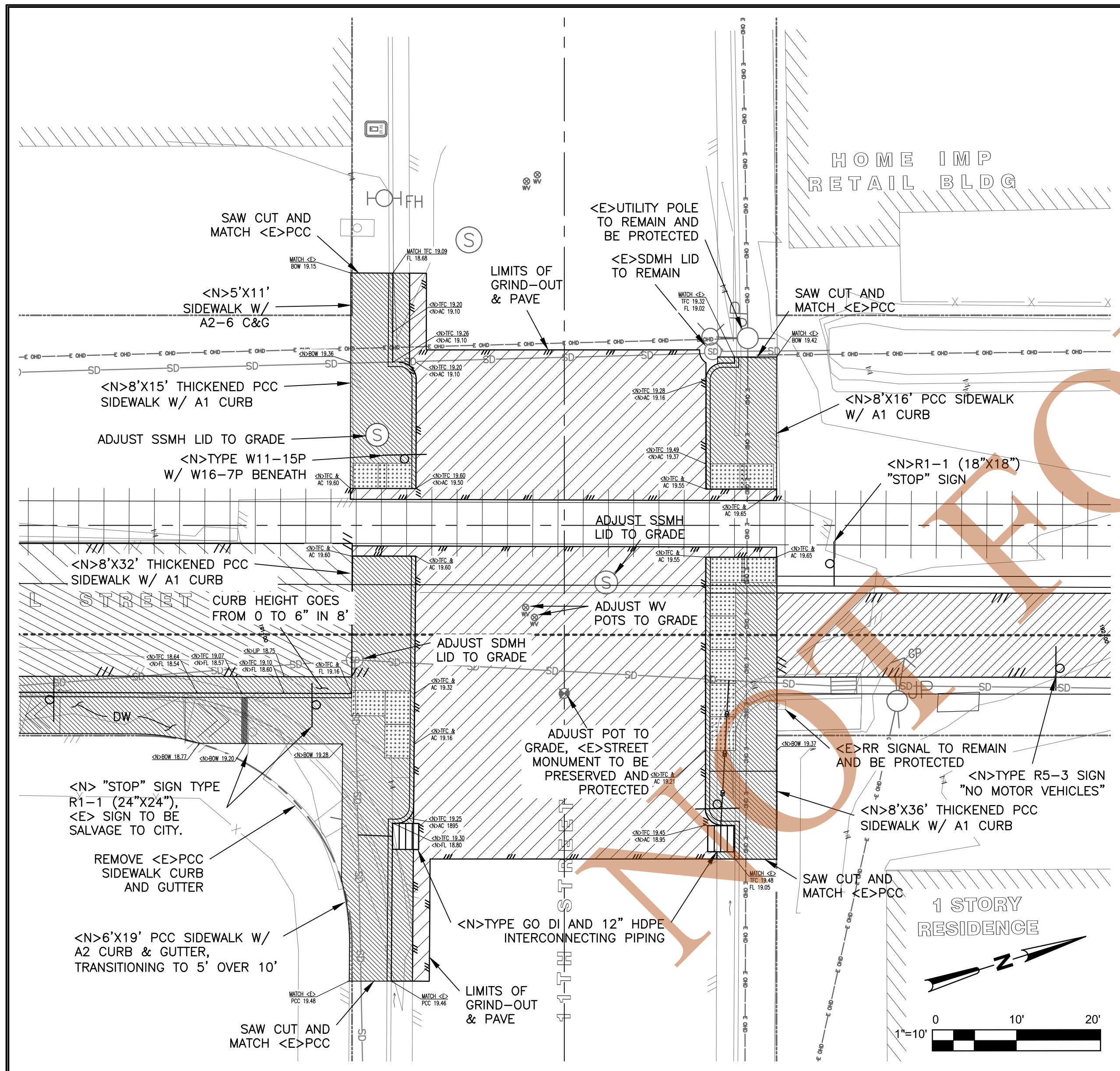
	<E> EDGE OF PAVEMENT
	EDGE OF NEW PAVING
	EDGE OF AREA TO BE GROUND AND REPAVED
	CENTER LINE OF TRAIL
	LIMITS OF FILL
	LIMITS OF CUT
	RIGHT OF WAY LINE (APPROXIMATE)
	WOOD FENCE
	PIPE RAILING
	WATER MAIN
	SANITARY SEWER(SS) MAIN
	STORM DRAIN CULVERT/PIPE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC

BLOCK TYPE LEGEND:

	SANITARY SEWER MANHOLE(SSMH)
	SANITARY SEWER CLEANOUT(SSCO)
	STORM DRAIN MANHOLE(SDMH)
	STORM DRAIN INLET(DI)
	DRAINAGE FLOW DIRECTION
	WATER METER BOX
	WATER VALVE
	FIRE HYDRANT
	UTILITY POLE
	STREET LIGHT POLE
	GUY WIRE
	STREET SIGN
	CENTER LINE MONUMENT
	ADA RAMP DOWN AND CANE GROVES
	DETECTABLE WARNING PANELS(TRUNCATED DOMES)
	DROP BACK DRIVEWAY, SEE 26/C502
	WALK AROUND DRIVEWAY, SEE 24/C502

HATCHING LEGEND:

	<N>PORTLAND CEMENT CONCRETE(PCC) AREA
	<N>STAMPED AND COLORED PCC AREA
	<N>ASPHALT CONCRETE(AC) PAVING AREA
	GRIND <E>AC REMOVE/REGRADE AND PAVE AREA
	CLASS 2 AGGREGATE BASE
	IMPORT FILL MATERIAL
	PORTLAND CEMENT CONCRETE(PCC)



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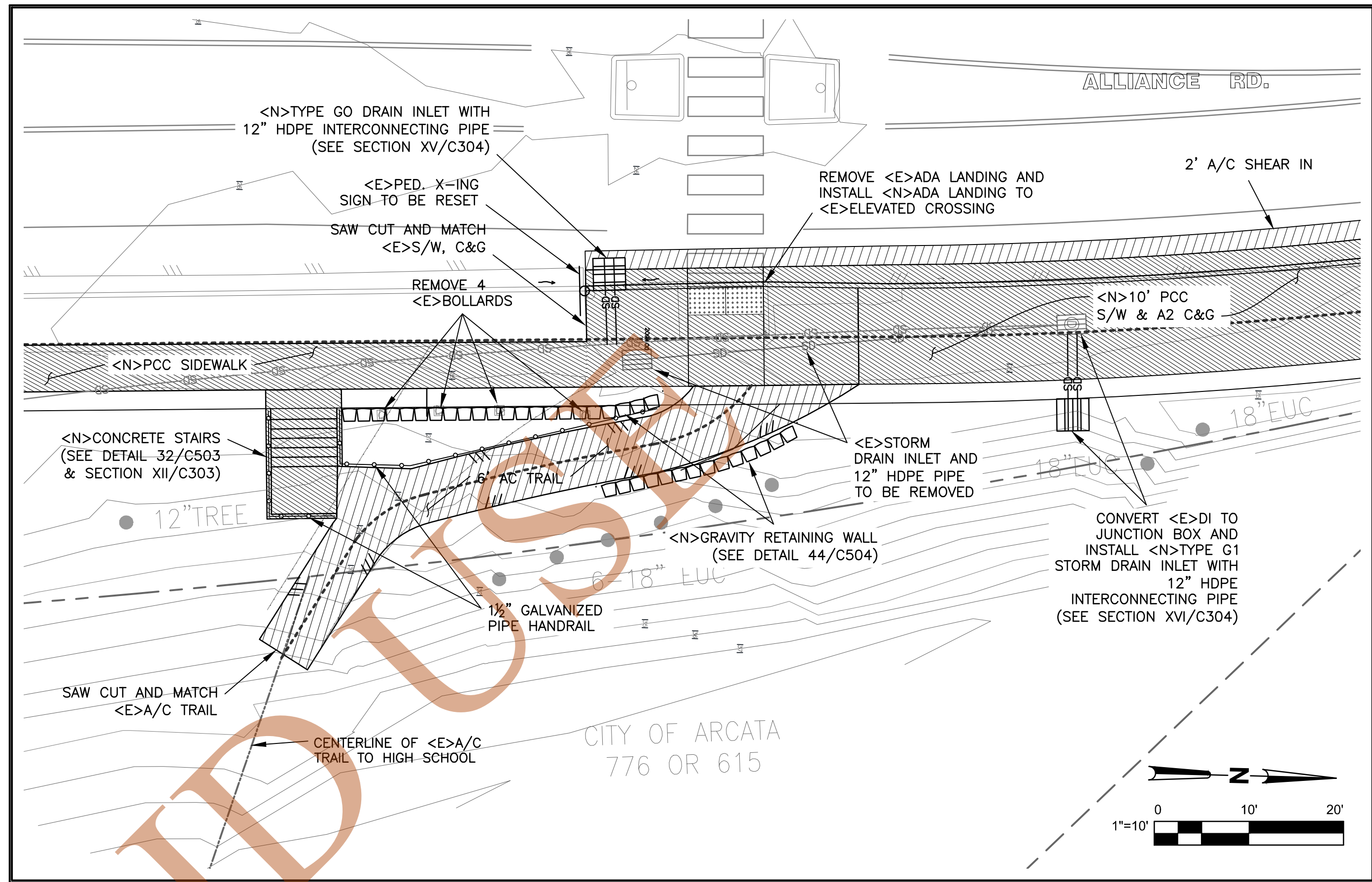
Enlarged Plans 11th & 12th Street Crossings
ARCATA RAILS WITH TRAILS

Date
12/8/2014
Scale
1" = 10'
Sheet No.
21 OF 34
Drawing
C403

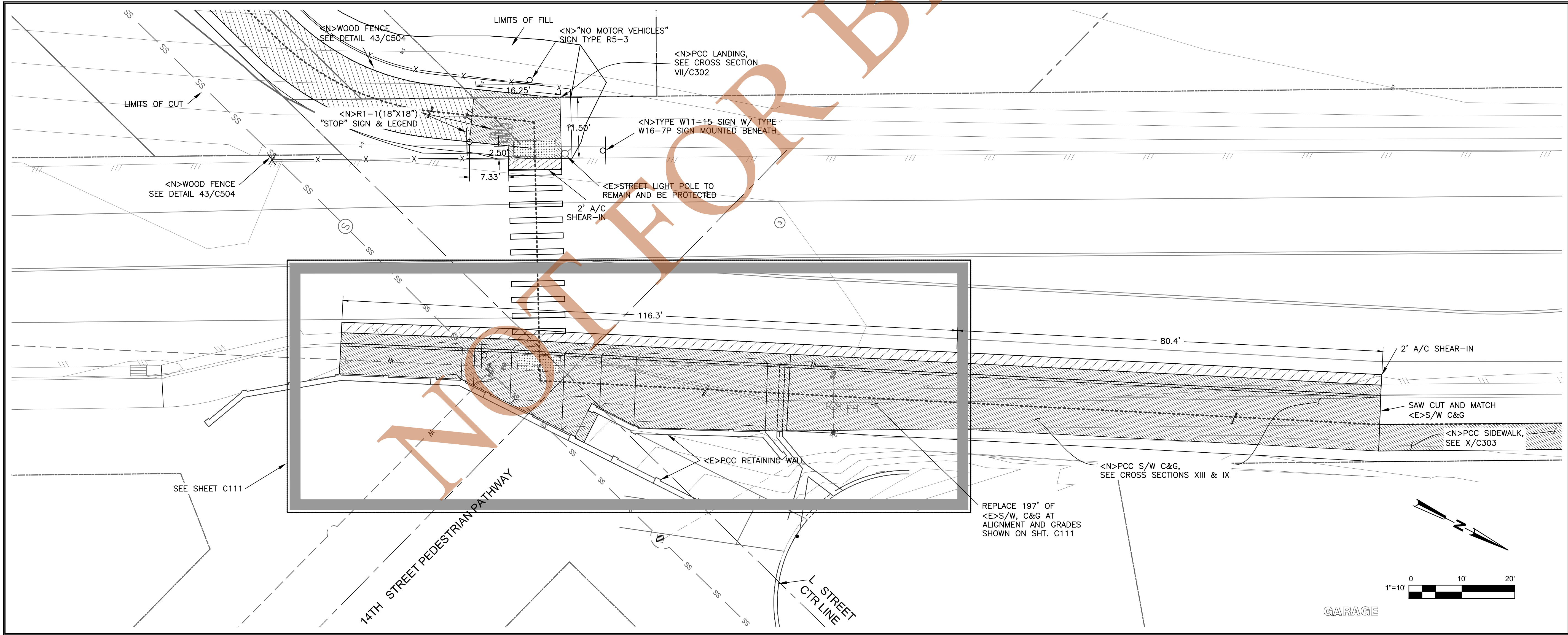
LINE TYPE LEGEND:	
	<E> EDGE OF PAVEMENT
	EDGE OF NEW PAVING
	EDGE OF AREA TO BE GROUND AND REPAVED
	CENTER LINE OF TRAIL
	LIMITS OF FILL
	LIMITS OF CUT
	RIGHT OF WAY LINE (APPROXIMATE)
	WOOD FENCE
	PIPE RAILING
	WATER MAIN
	SANITARY SEWER(SS) MAIN
	STORM DRAIN CULVERT/PIPE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC

BLOCK TYPE LEGEND:	
	SANITARY SEWER MANHOLE(SSMH)
	SANITARY SEWER CLEANOUT(SSCO)
	STORM DRAIN MANHOLE(SDMH)
	STORM DRAIN INLET(DI)
	DRAINAGE FLOW DIRECTION
	WATER METER BOX
	WATER VALVE
	FIRE HYDRANT
	UTILITY POLE
	STREET LIGHT POLE
	GUY WIRE
	STREET SIGN
	CENTER LINE MONUMENT
	ADA RAMP DOWN AND CANE GROVES
	DETECTABLE WARNING PANELS(TRUNCATED DOWNS)
DROP BACK DRIVEWAY, SEE 26/C502	
WALK AROUND DRIVEWAY, SEE 24/C502	

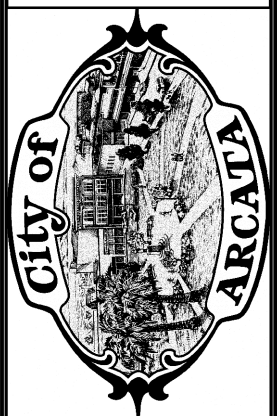
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	<N>STAMPED AND COLORED PCC AREA
	<N>ASPHALT CONCRETE(AC) PAVING AREA
	GRIND <E>AC REMOVE/REGRADE AND PAVE AREA
	CLASS 2 AGGREGATE BASE
	IMPORT FILL MATERIAL
	PORTLAND CEMENT CONCRETE(PCC)



AHS TRAIL & ALLIANCE RD.



ALLIANCE ROAD CROSSING



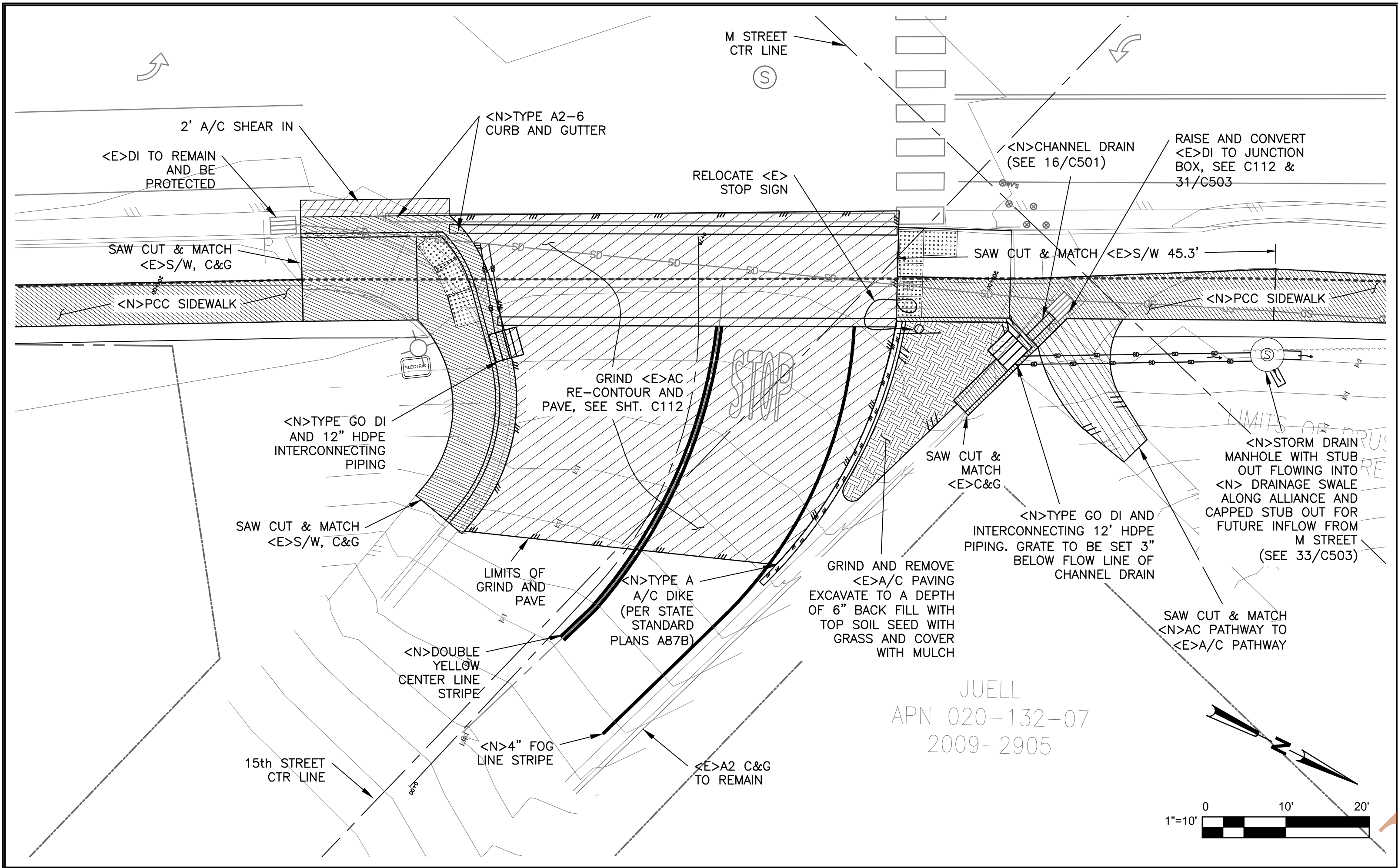
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NO.	DATE	REVISION	BY
1	12/8/2014	Comments from client	CRB

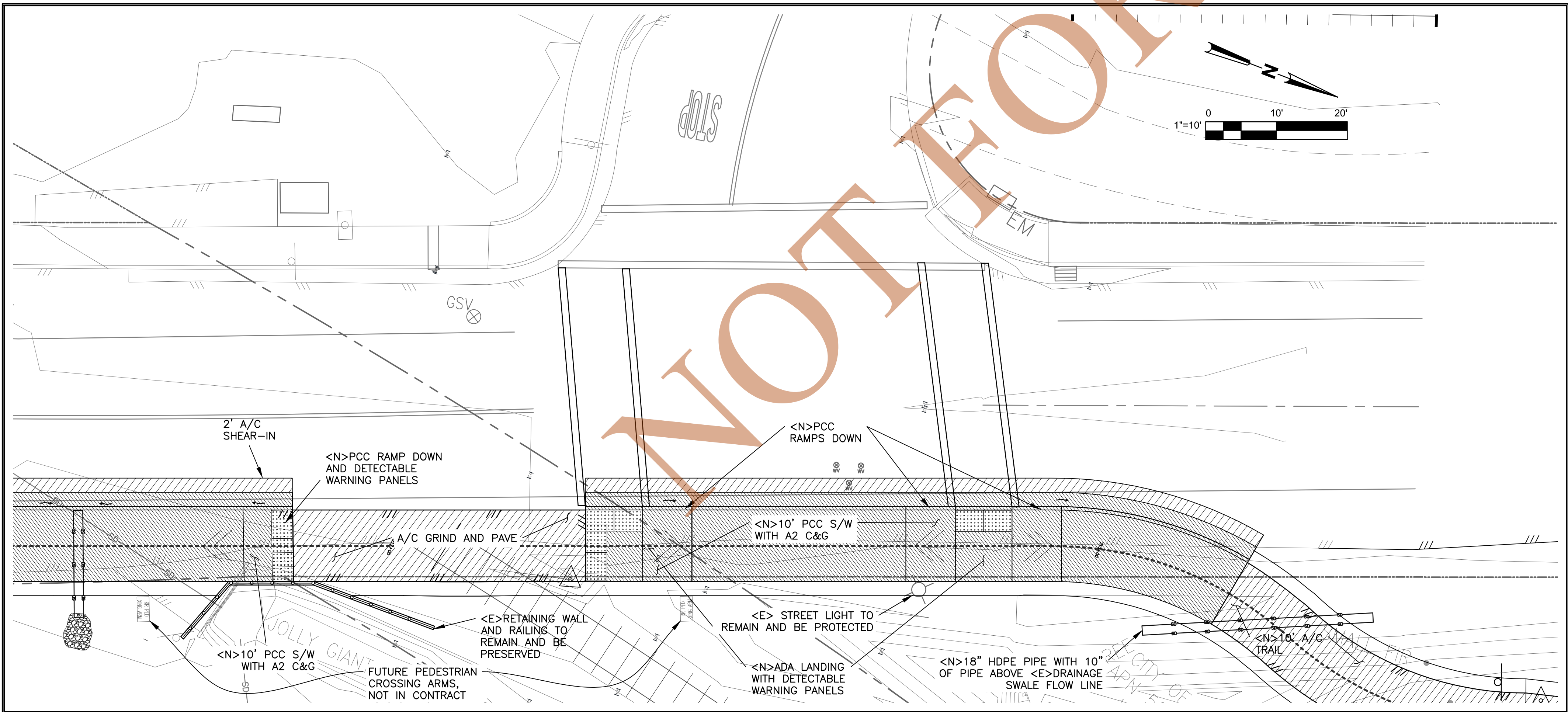
Enlarged Plan Alliance Road Crossing & AHS Trail
ARCATA RAILS WITH TRAILS

Date	12/8/2014
Scale	1" = 10'
Sheet No.	22 OF 34
Drawing	C404

Plotted By: Terry Barney Plot Date: 12/8/2014 RWT_INTERSECTIONS_2014-12-08.dwg



15TH ST. & ALLIANCE RD.
SEE SHEET C112 FOR PROFILE AND CROSS SECTIONS



17TH ST. & ALLIANCE RD.

LINE TYPE LEGEND:

- <E> EDGE OF PAVEMENT
- EDGE OF NEW PAVING
- EDGE OF AREA TO BE GROUND AND REPAVED
- CENTER LINE OF TRAIL
- LIMITS OF FILL
- LIMITS OF CUT
- RIGHT OF WAY LINE (APPROXIMATE)
- WOOD FENCE
- PIPE RAILING
- WATER MAIN
- SANITARY SEWER(SS) MAIN
- STORM DRAIN CULVERT/PIPE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC

BLOCK TYPE LEGEND:

- SANITARY SEWER MANHOLE(SSMH)
- SANITARY SEWER CLEANOUT(SSCO)
- STORM DRAIN MANHOLE(SDMH)
- STORM DRAIN INLET(DI)
- DRAINAGE FLOW DIRECTION
- WATER METER BOX
- WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- STREET LIGHT POLE
- GUY WIRE
- STREET SIGN
- CENTER LINE MONUMENT
- ADA RAMP DOWN AND CANE GROVES
- DETECTABLE WARNING PANELS(TRUNCATED DOMES)
- DROP BACK DRIVEWAY, SEE 26/C502
- WALK AROUND DRIVEWAY, SEE 24/C502

HATCHING LEGEND:

- <N>PORTLAND CEMENT CONCRETE(PCC) AREA
- <N>STAMPED AND COLORED PCC AREA
- <N>ASPHALT CONCRETE(AC) PAVING AREA
- GRIND <E>AC REMOVE/REGRADE AND PAVE AREA
- CLASS 2 AGGREGATE BASE
- IMPORT FILL MATERIAL
- PORTLAND CEMENT CONCRETE(PCC)

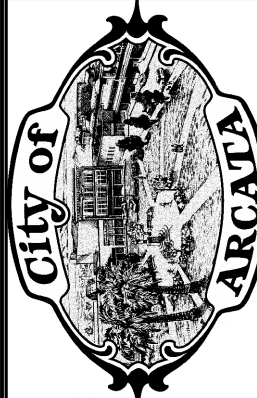
Enlarged Plans 15th & 17th Street Crossings

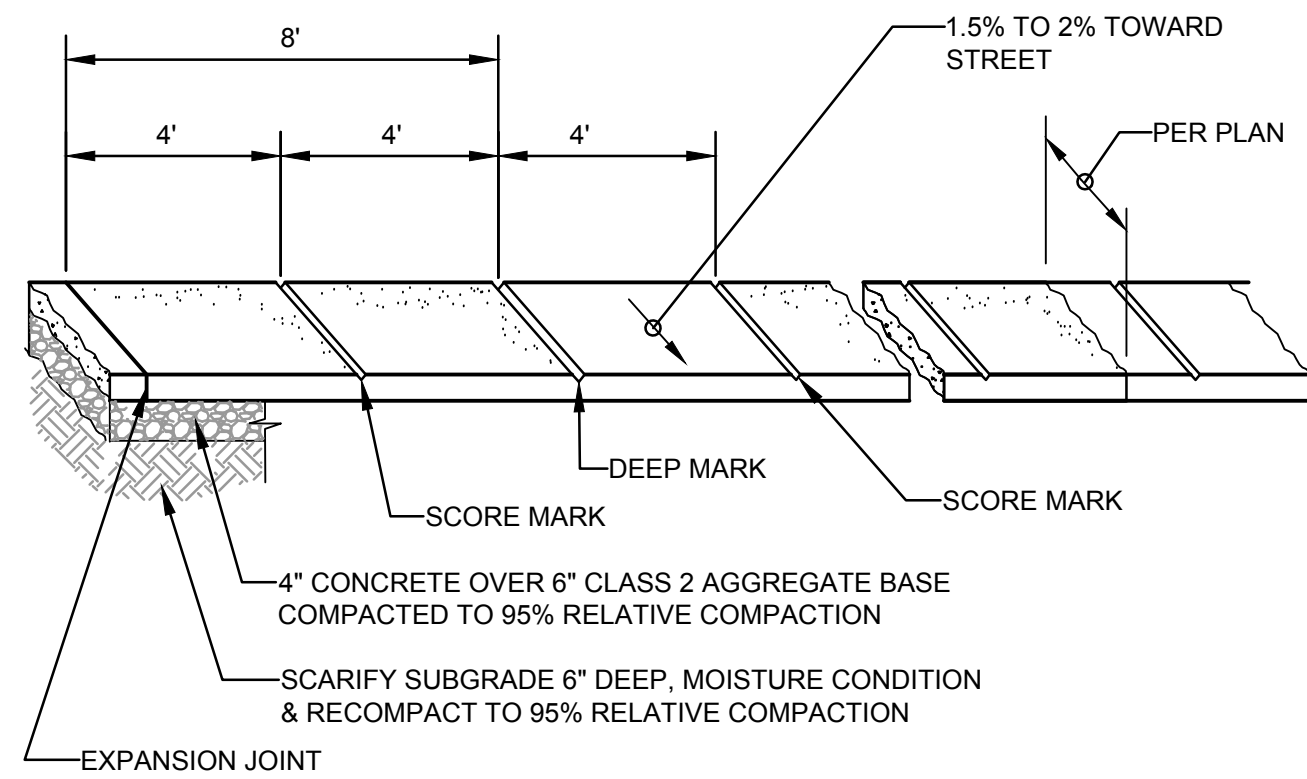
ARCATA RAILS WITH TRAILS

Date 12/8/2014
Scale 1" = 10'
Sheet No. 23 OF 34
Drawing C405

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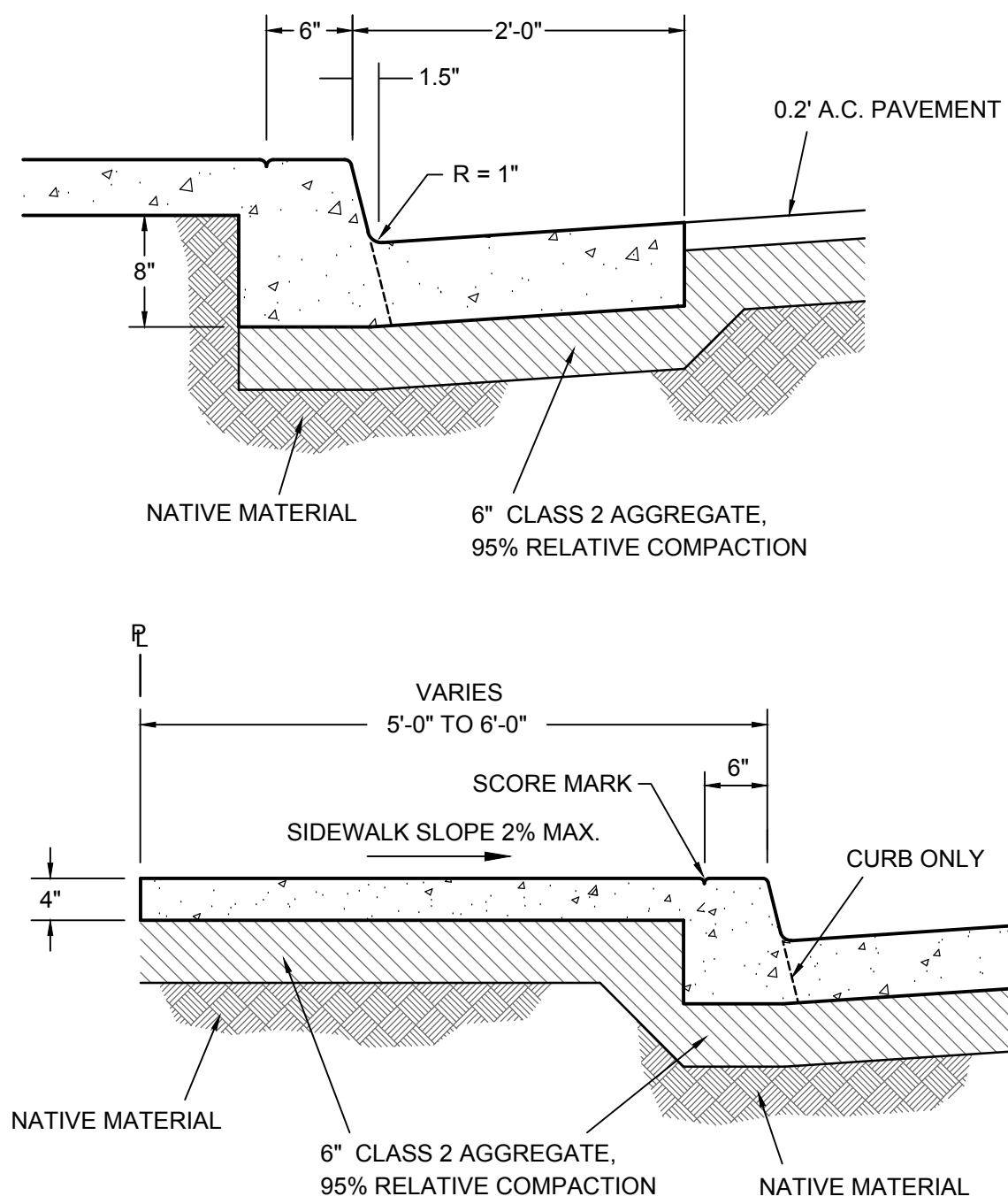
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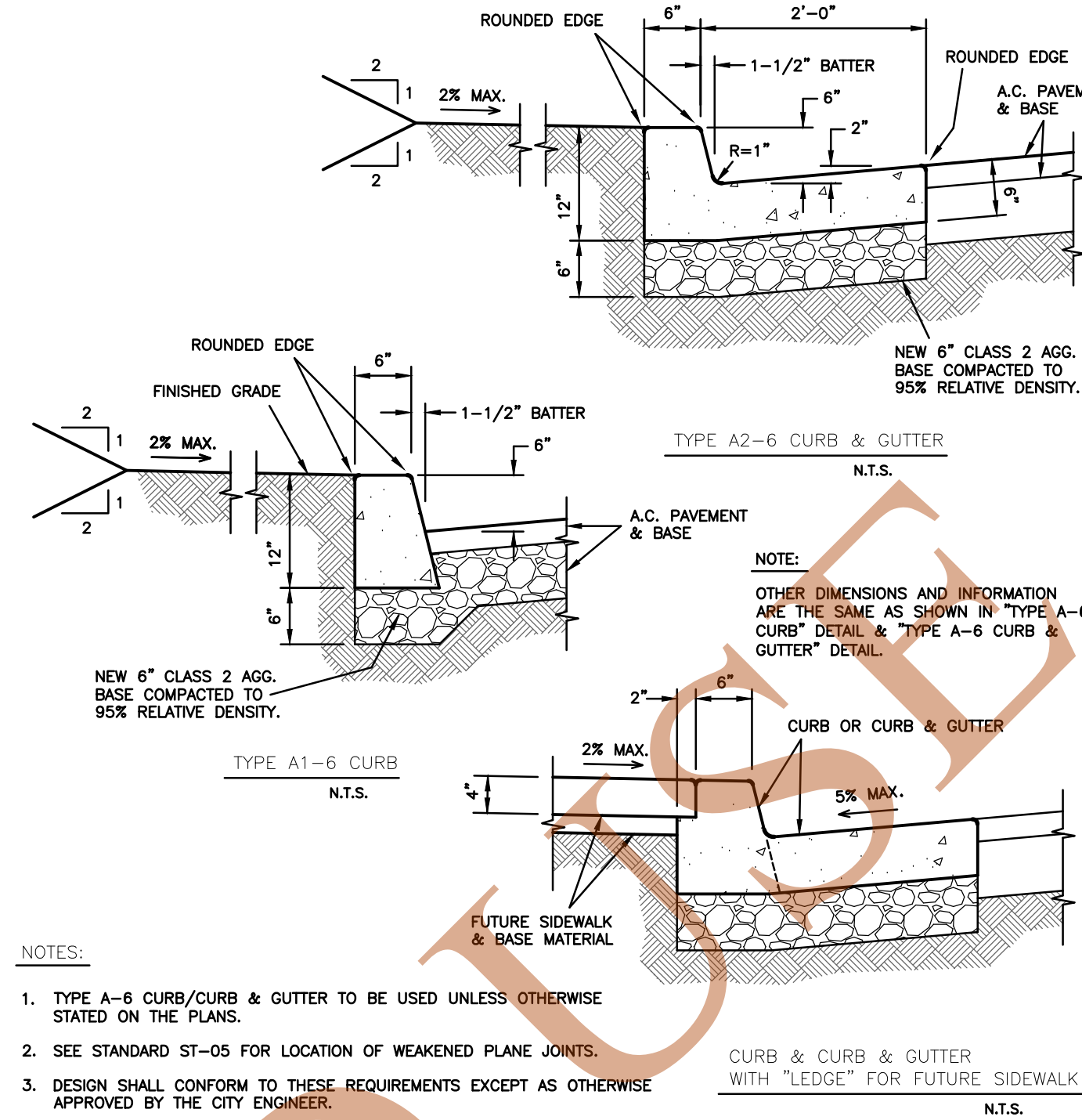
- NOTES:**
- DEEP SCORE MARK OR WEAKENED PLANE-DEPTH EQUAL TO 1/5 OF SLAB THICKNESS.
 - SIDEWALK SHALL BE BROOM FINISHED. DIRECTION OF BROOMING SHALL BE PERPENDICULAR TO DIRECTION OF TRAVEL.
 - CONTRACTOR TO DRILL AND DOWEL 3EA 12" LONG #3 REBAR (CENTERED IN SLABS) INTO EXISTING SIDEWALK AT END JUNCTIONS AND @36" O.C. ALONG LONG RUNS

10 TYPICAL SIDEWALK DETAIL
SCALE: NTS



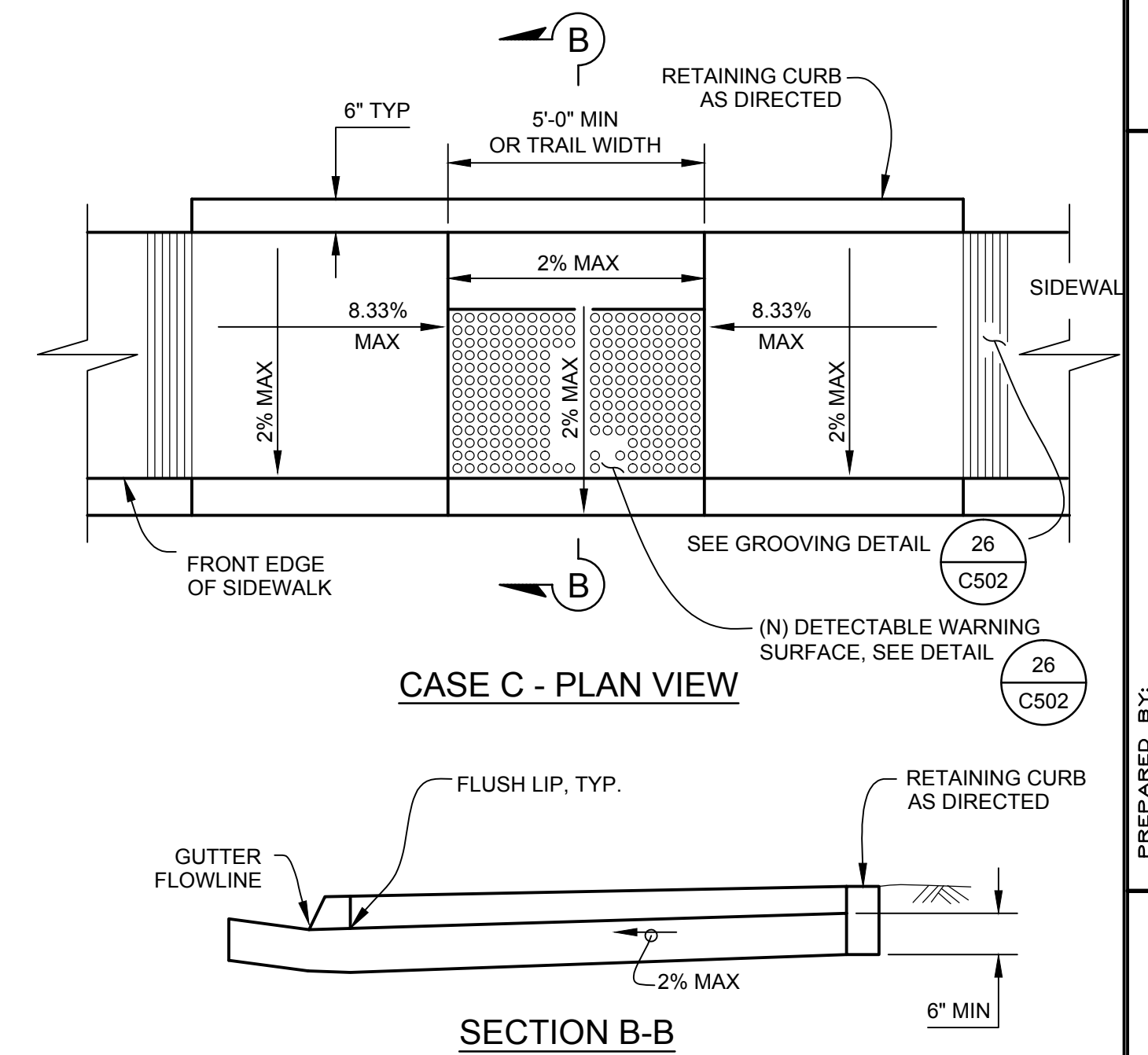
- NOTES:**
- SEE STANDARD DETAIL 10 FOR LOCATION OF WEAKENED PLANES
 - DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
 - CONCRETE SHALL BE 5 SACK MEETING 2500 PSI REQUIREMENTS
 - ALL ROUNDED CORNERS TO BE 1/2" RADIUS UNLESS OTHERWISE SPECIFIED.
 - INSPECTION OF FORMS AND FINISHED WORK REQUIRED. SCHEDULE INSPECTION 24 HOURS IN ADVANCE.

11 TYPICAL MONOLITHIC SIDEWALK, A1-6 CURB AND A2-6 CURB & GUTTER
SCALE: NTS

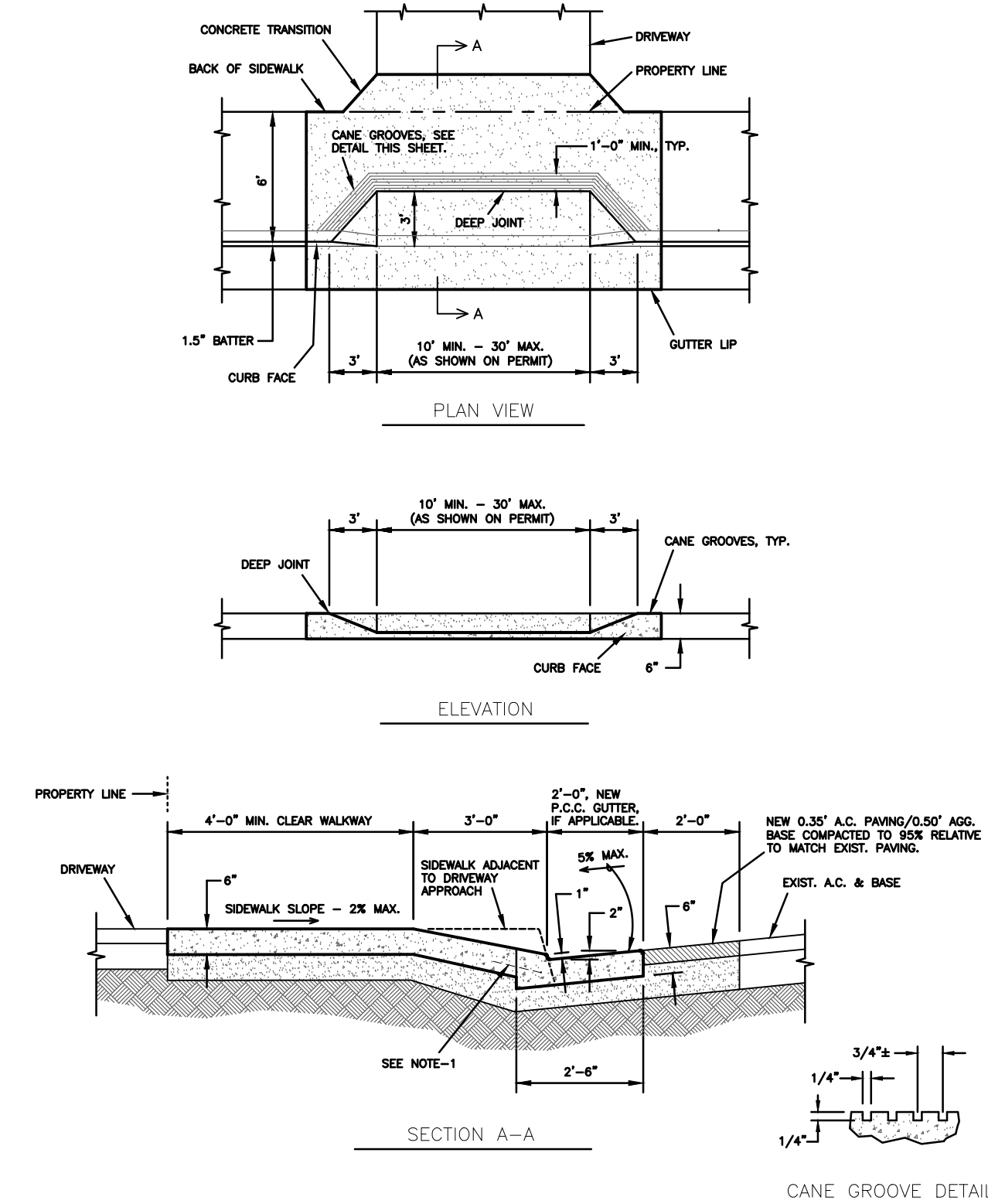


- NOTES:**
- TYPE A-6 CURB/CURB & GUTTER TO BE USED UNLESS OTHERWISE STATED ON THE PLANS.
 - SEE STANDARD ST-05 FOR LOCATION OF WEAKENED PLANE JOINTS.
 - DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
 - ALL CONCRETE SHALL BE 5 SACK, MEETING 2500 PSI REQUIREMENTS.
 - ALL ROUNDED CORNERS SHALL BE 1/2" RADIUS UNLESS OTHERWISE SPECIFIED.
 - BASE MATERIAL UNDER CURB SHALL BE CLASS 2 AGGREGATE, COMPACTED TO 95% RELATIVE DENSITY.
 - RETROFIT SITUATIONS MAY REQUIRE ADJUSTMENT TO MATCH FIELD CONDITIONS, IF APPROVED BY THE CITY ENGINEER.
 - INSPECTION OF FORMS AND FINISHED WORK IS REQUIRED. SCHEDULE INSPECTION 24 HOURS IN ADVANCE.

12 TYPICAL CURB DETAIL - TYPE A1-6 & A2-6
SCALE: NTS

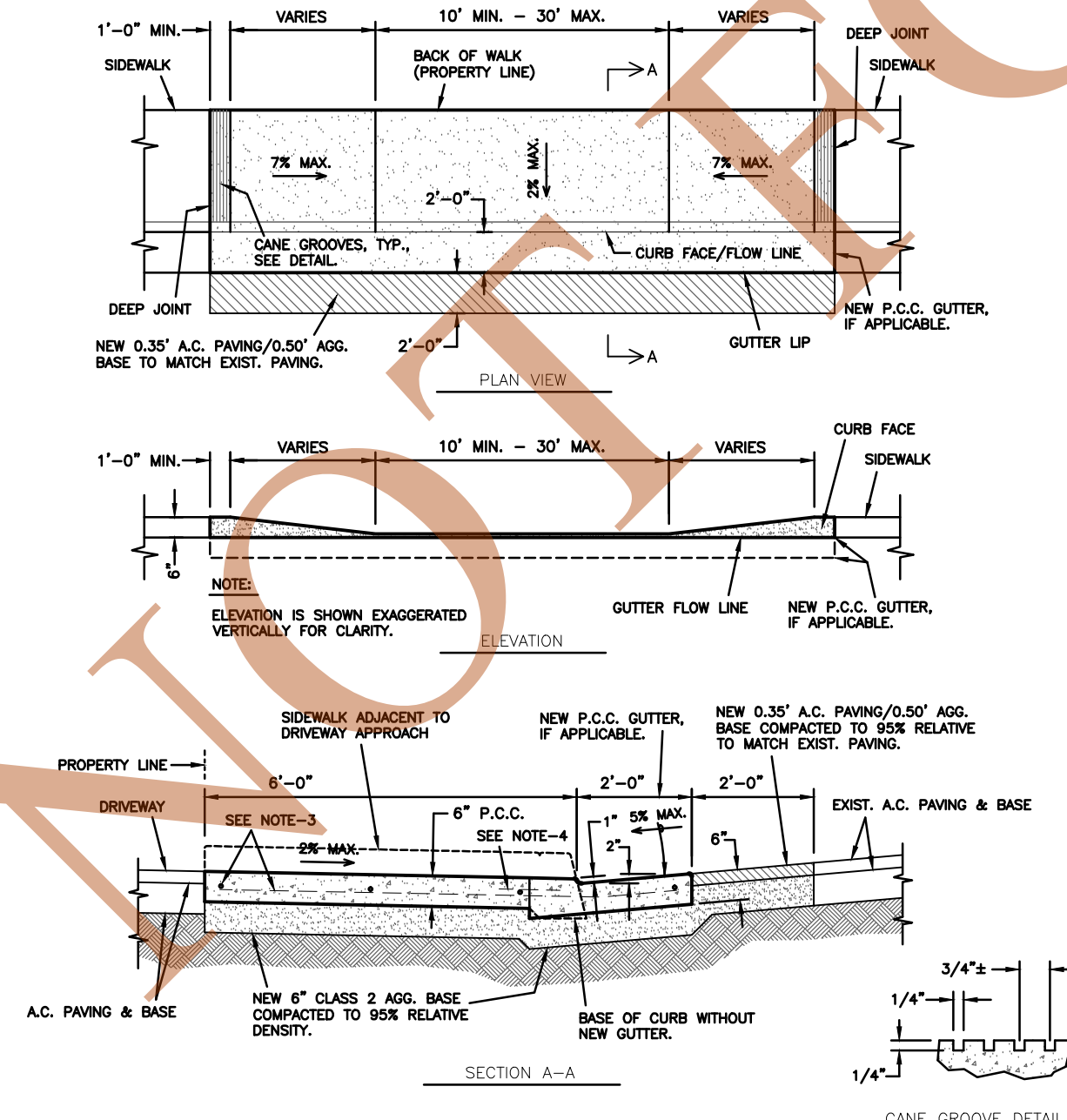


13 STANDARD CURB RAMP DETAIL - CASE C
SCALE: NTS



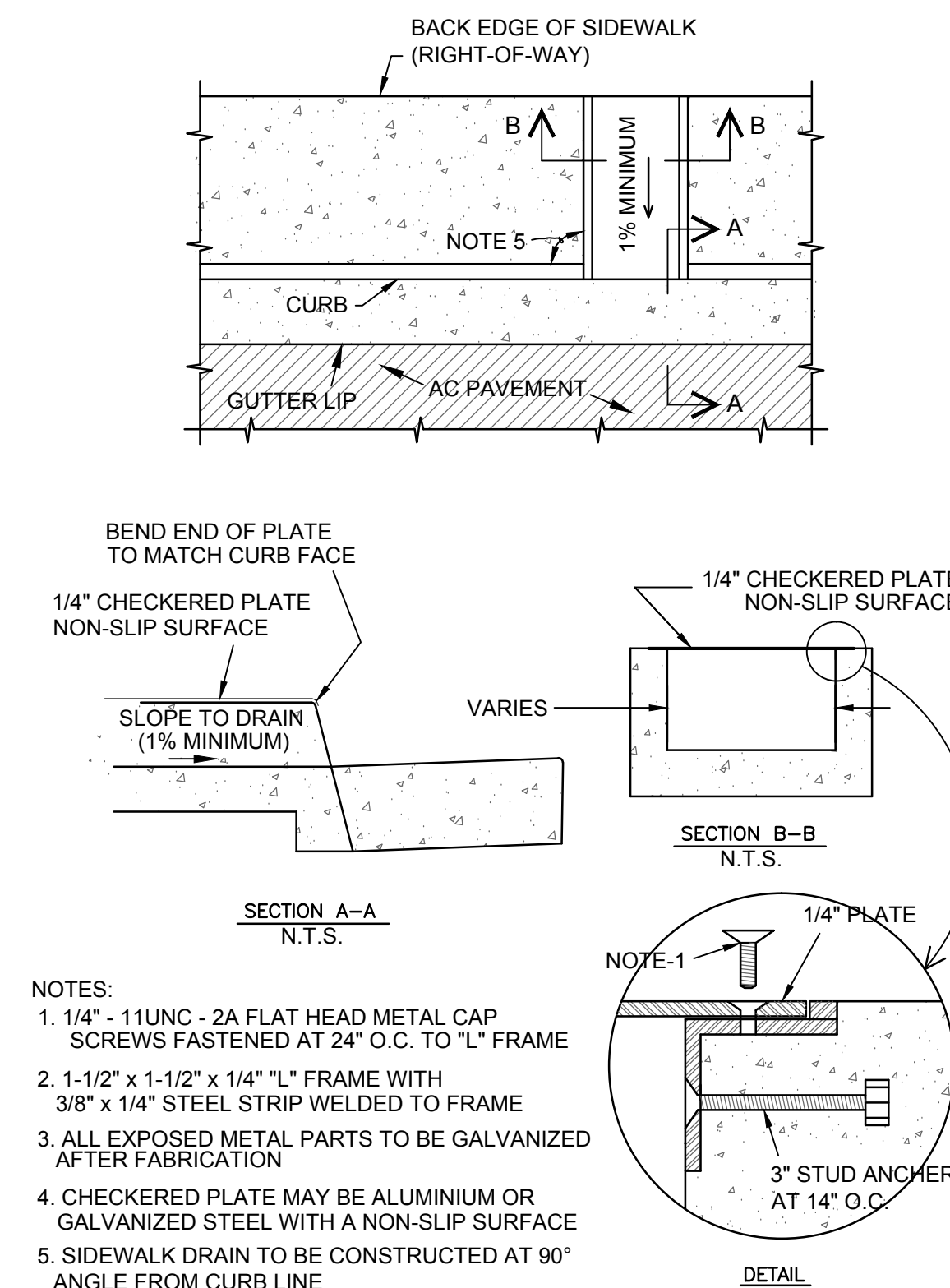
- NOTES:**
- 12" #3 REBAR DOWELS @ 30" O.C. REQUIRED IF EXISTING GUTTER PAN IS USED.
 - INSTALL DEEP JOINTS AT EACH END OF DRIVEWAY APPROACH AT EACH END OF CURB RETURNS AND AT 50' MAXIMUM SPACING IN INTERVENING CURBS.
 - AGGREGATE BASE MAY BE REQUIRED UNDER CURB, GUTTER AND SIDEWALK AREAS. (6" MIN.)
 - VERIFY AMERICAN'S WITH DISABILITY ACT (ADA) REQUIREMENTS WITH PUBLIC WORKS DEPARTMENT.
 - 95% COMPACTION FORMED ON ALL BASE MATERIAL.
 - INSPECTION OF FORMS AND FINISHED WORK REQUIRED. SCHEDULE INSPECTION 24 HOURS IN ADVANCE.
 - COMMERCIAL DRIVEWAYS: #3 REBAR @ 30" O.C. REQUIRED.

14 TYPICAL WALK AROUND DRIVEWAY
SCALE: NTS



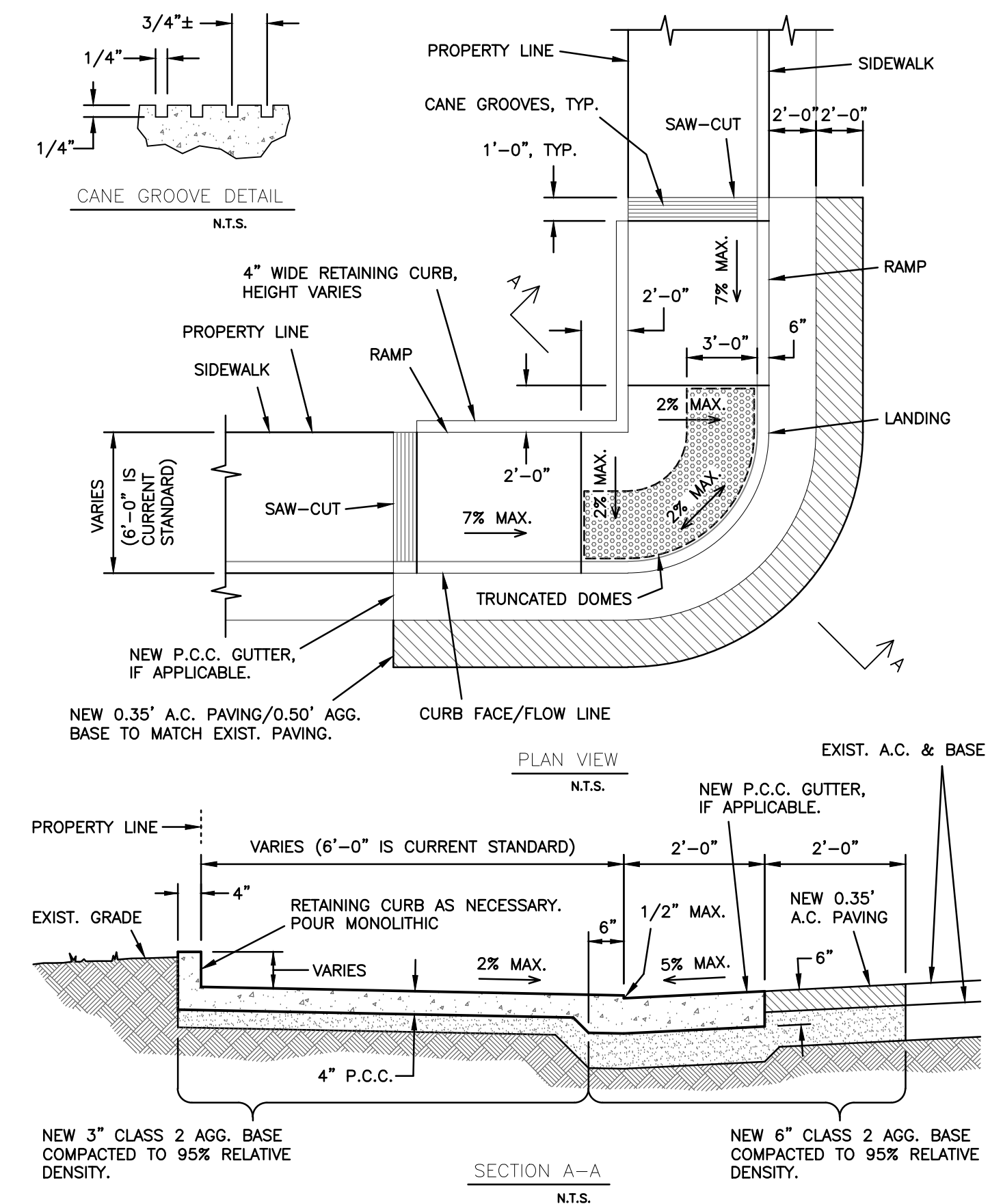
- NOTES:**
- INSTALL DEEP JOINTS AT EACH END OF THE DRIVEWAY APPROACH.
 - VERIFY ADA (AMERICAN'S WITH DISABILITY ACT) REQUIREMENTS WITH THE PUBLIC WORKS DEPARTMENT.
 - #3 REBAR @ 30" O.C. (CENTERED IN SLAB) IS REQUIRED IN COMMERCIAL DRIVEWAYS.
 - 12" #3 REBAR DOWELS (CENTERED IN SLABS AND EPOXYED) @ 30" O.C. REQUIRED IF EXISTING GUTTER PAN IS USED.
 - ALL REBAR SHALL HAVE 3" MIN. CLEAR FROM SURFACE OF CONCRETE.
 - ALL CONCRETE SHALL BE 5 SACK, MEETING 2500 P.S.I. REQUIREMENTS.
 - AGG. BASE MAY BE REQUIRED UNDER CURB, GUTTER AND SIDEWALK AREAS. (6" MIN.)
 - DESIGN SHALL CONFORM TO THE REQUIREMENTS ILLUSTRATED IN THIS DETAIL, EXCEPT WHEN OTHERWISE APPROVED BY THE CITY ENGINEER.
 - ALL ROUNDED EDGES TO BE 1/2" RADIUS, UNLESS OTHERWISE SPECIFIED.
 - INSPECTION OF FORMS AND FINISHED WORK REQUIRED. SCHEDULE INSPECTION 24 HOURS IN ADVANCE.

15 TYPICAL DROP BACK DRIVEWAY
SCALE: NTS

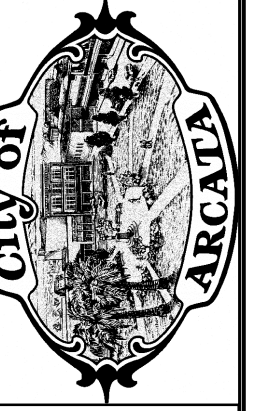


- NOTES:**
- 1/4" - 11UNC - 2A FLAT HEAD METAL CAP SCREWS FASTENED AT 24" O.C. TO "L" FRAME
 - 1-1/2" x 1-1/2" x 1/4" "L" FRAME WITH 3/8" x 1/4" STEEL STRIP WELDED TO FRAME
 - ALL EXPOSED METAL PARTS TO BE GALVANIZED AFTER FABRICATION
 - CHECKERED PLATE MAY BE ALUMINIUM OR GALVANIZED STEEL WITH A NON-SLIP SURFACE
 - SIDEWALK DRAIN TO BE CONSTRUCTED AT 90° ANGLE FROM CURB LINE

16 TYPICAL SIDEWALK CHANNEL DRAIN
SCALE: NTS



17 TYPE - 1 CURB RAMP
SCALE: NTS

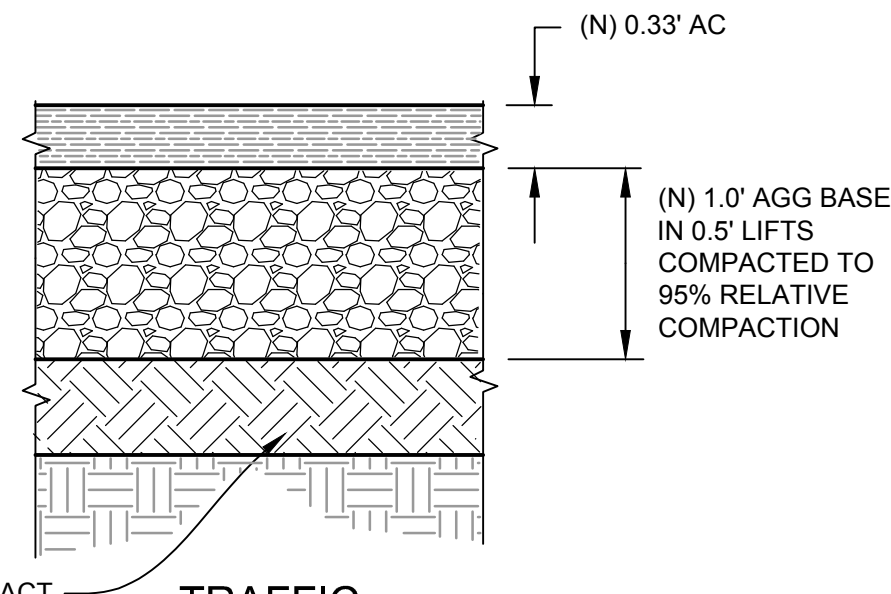
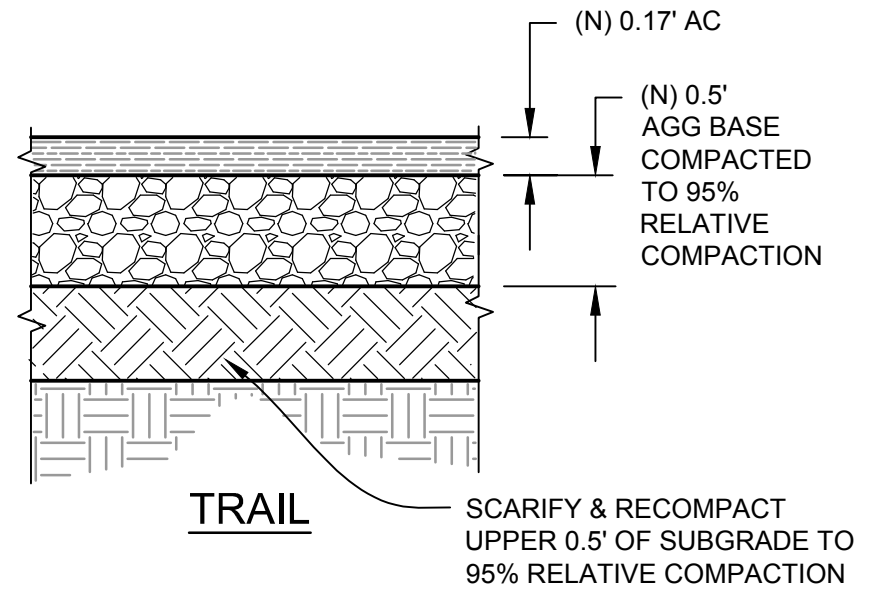


CITY OF ARCATA
ENGINEERING DEPARTMENT

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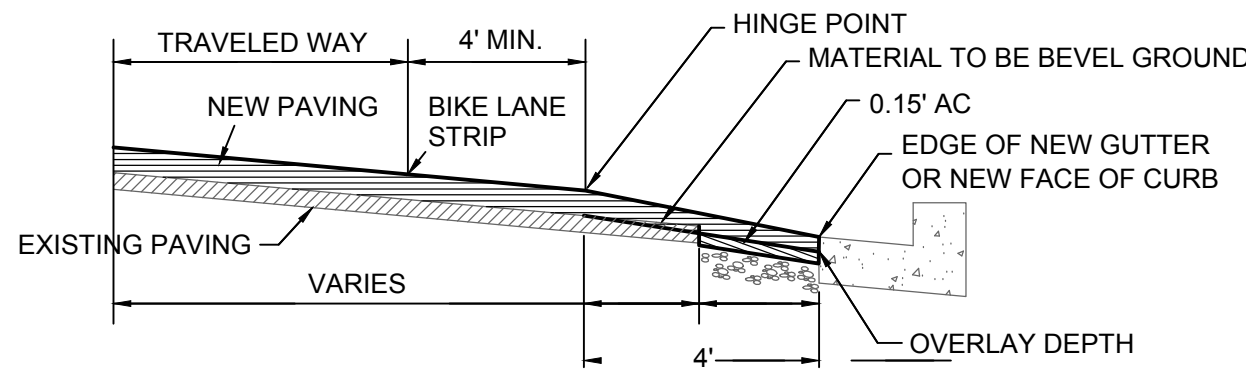
ARCATA RAILS WITH TRAILS

Date: 12/8/2014
Scale: NTS
Sheet No: 24 OF 34
Drawing: C501



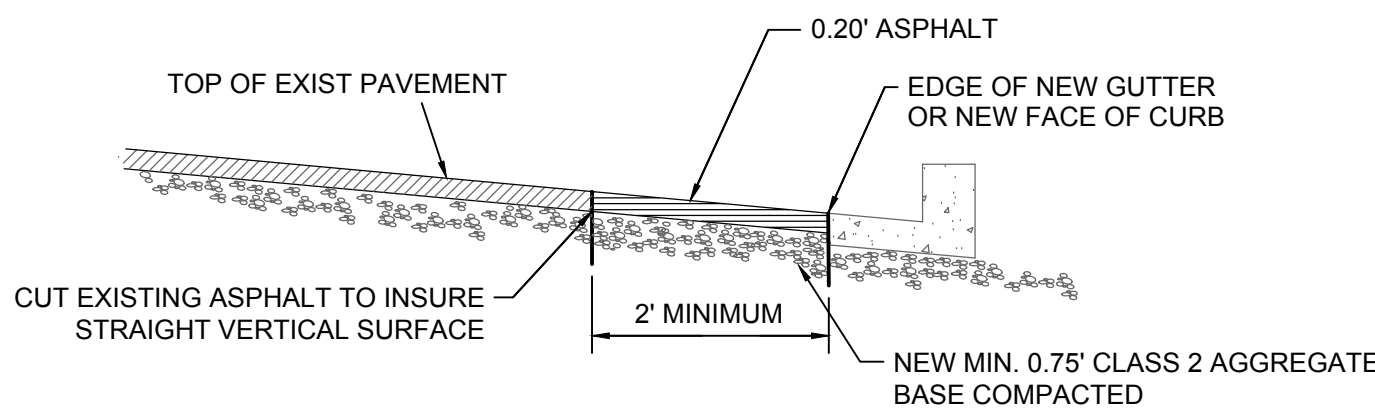
TYPICAL PAVEMENT STRUCTURAL SECTION

20
C502
SCALE: NTS



- NOTES:
1. ASPHALT INFILL ALONG GUTTER LIP SHALL BE A MINIMUM OF 0.15'.
 2. VERTICAL LIP SHALL BE SWEEPED CLEAN OF DUST AND AC BINDER APPLIED PRIOR TO PAVING.
 3. WIDTH OF GRIND MAY VARY AT THE CITY ENGINEERS DISCRETION DUE TO SITE CONDITIONS.
 4. COLD JOINT OR HINGE POINT SHALL BE UNDER BIKE LANE STRIP IF WITHIN 4' OF THE CURB SIDE OF BIKE LANE STRIP.

ASPHALT OVERLAY TO NEW GUTTER EDGE

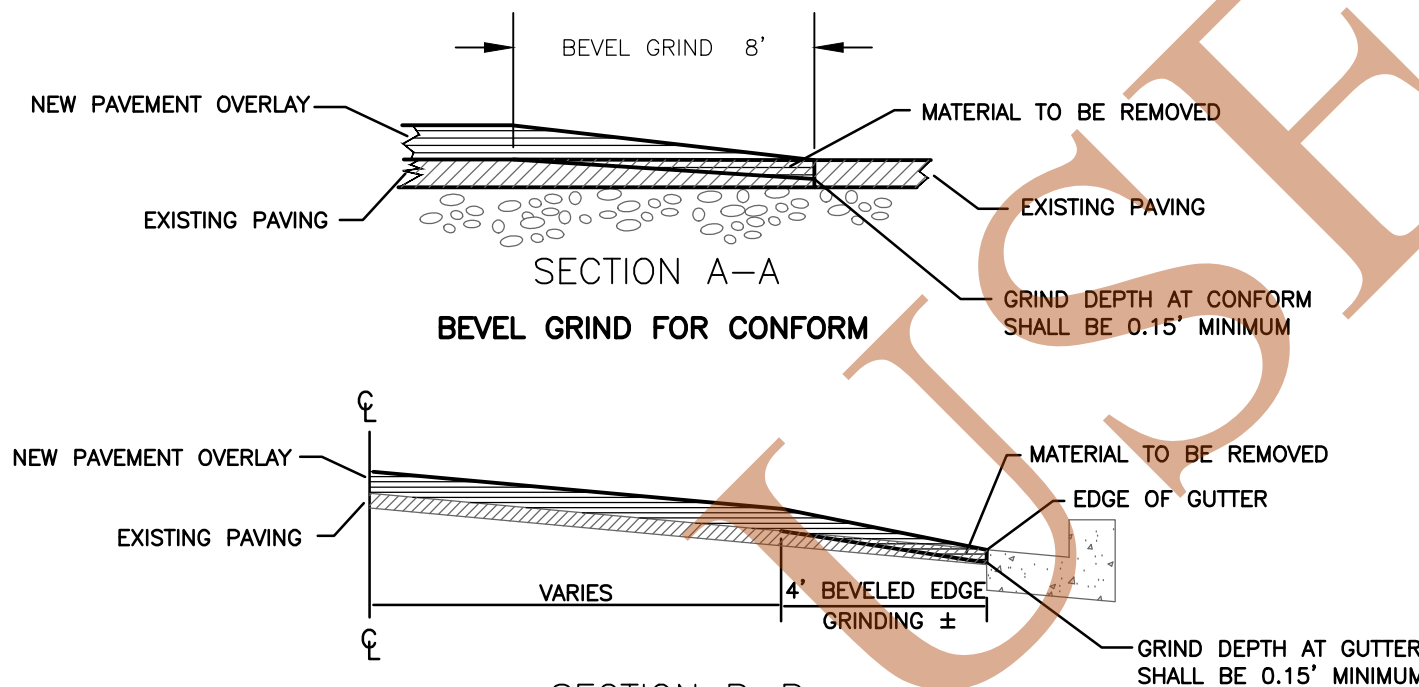
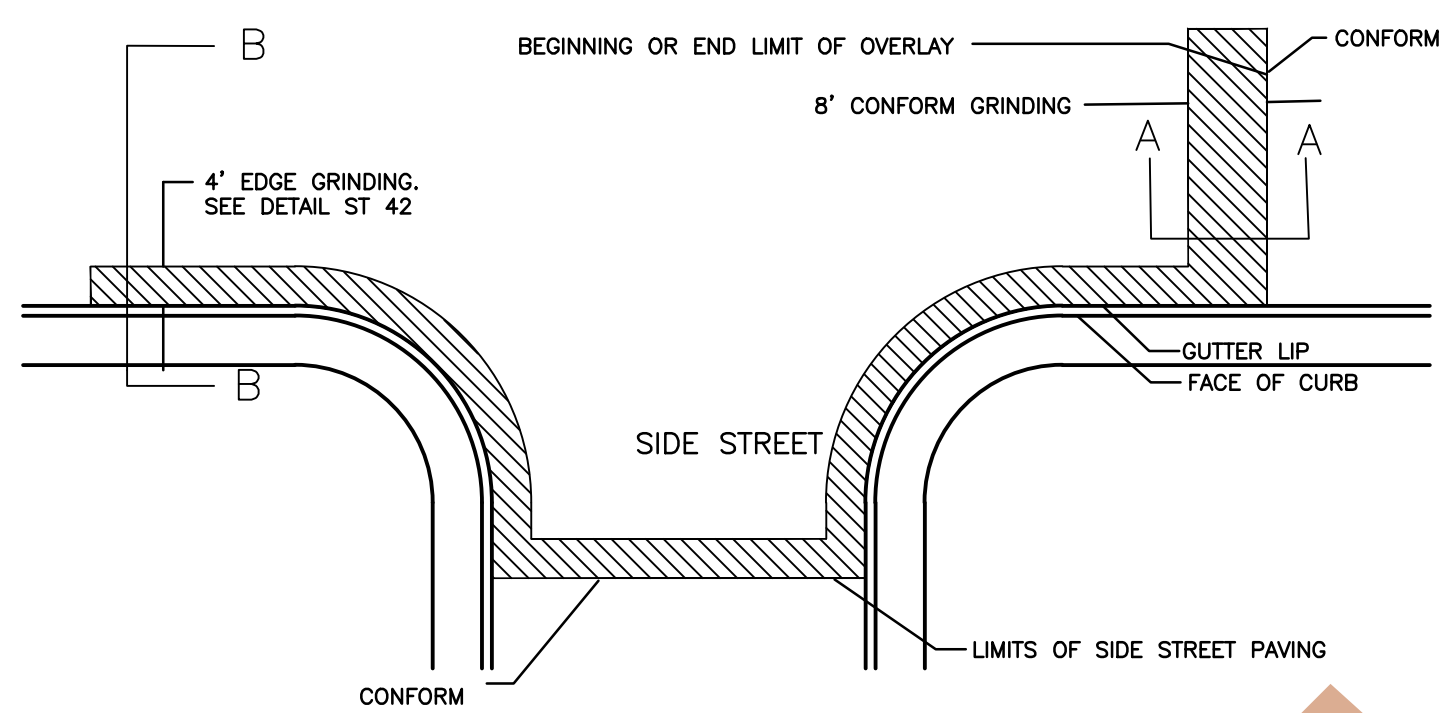


- NOTES:
1. AGGREGATE BASE AND ASPHALT SHALL BE MECHANICALLY COMPACTED AND FIELD VERIFIED BY PUBLIC WORKS.
 2. VERTICAL EDGES SHALL BE SWEEPED CLEAN OF DUST AND AC BINDER APPLIED PRIOR TO PAVING.
 3. SHEAR IN WIDTH MAY BE ALTERED BY THE CITY ENGINEER.
 4. NOTIFY CITY PUBLIC WORKS 24 HOURS PRIOR TO PAVING FOR INSPECTION.

ASPHALT SHEAR IN TO NEW GUTTER OR CURB

TYPICAL PAVING CONFORM TO GUTTER LIP

21
C502
SCALE: NTS

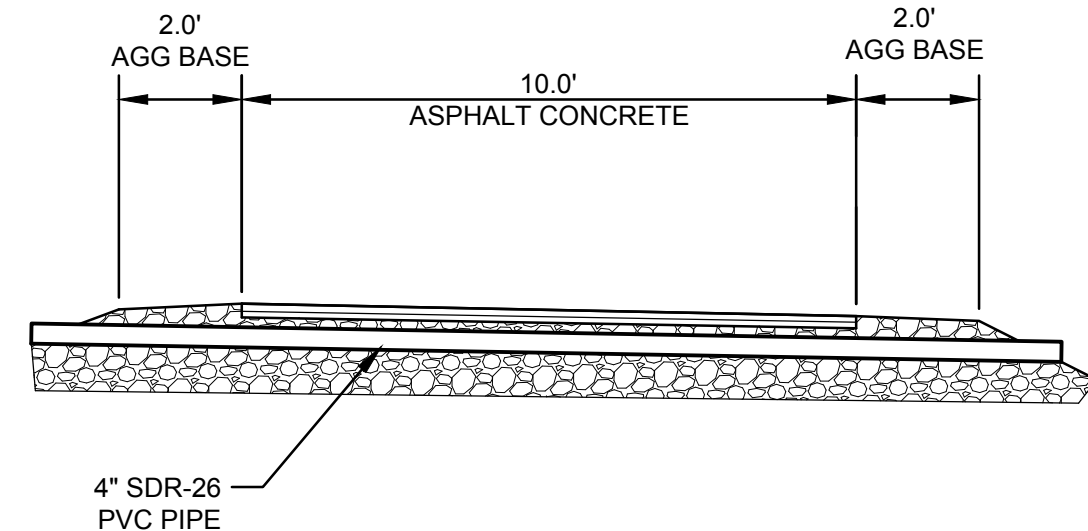


- NOTES:
1. CONFORM GRINDING IS INTENDED TO INSURE A GENTLE TRANSITION FROM EXISTING PAVEMENT TO NEW OVERLAY.
 2. AFTER GRINDING, AREA MUST BE SWEEPED TO REMOVE DUST AND DEBRIS PRIOR TO APPLICATION OF ASPHALT BINDER, PAYING SPECIAL ATTENTION TO VERTICAL SURFACES AT EDGES OF GRIND.
 3. WIDTH OF GRIND MAY VARY AT CITY ENGINEER'S DISCRETION DUE TO SITE CONDITIONS.

ST 41 Asphalt Conform and Edge Grinding.dwg REVISED 2-04-2010

ASPHALT CONFORM AND EDGE GRINDING

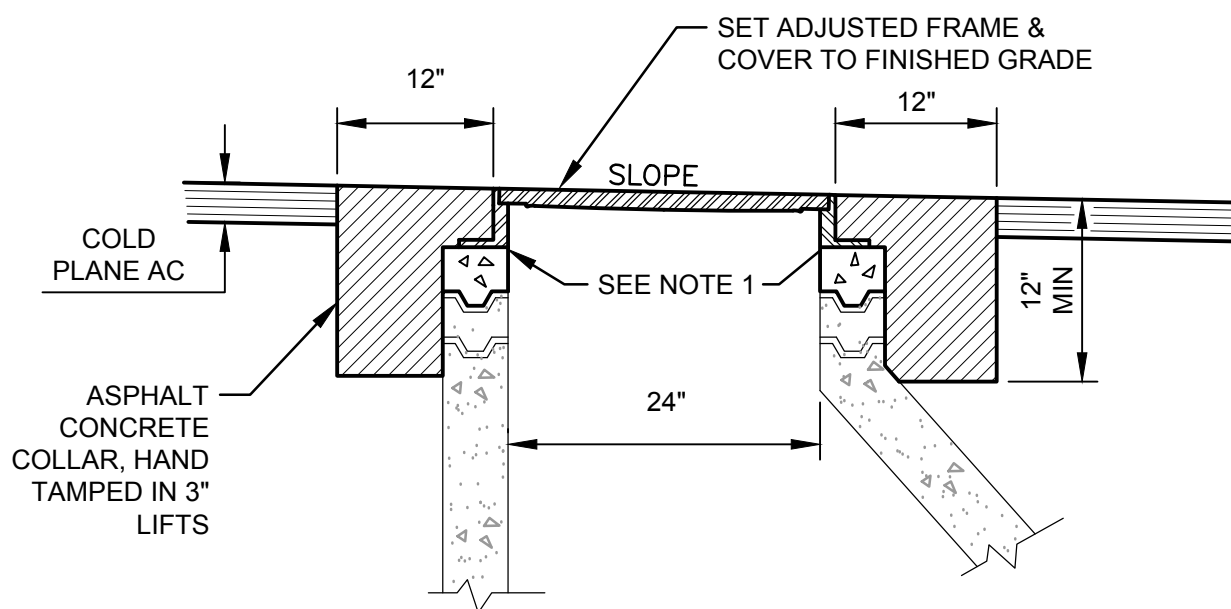
22
C502
SCALE: NTS



- NOTES:
1. CROSS TRAIL DRAIN PIPE TO BE SET LEVEL OR AT 1% SLOPE IN DIRECTION OF PREVAILING FLOW.
 2. MINIMUM DISTANCE BETWEEN TOP OF PIPE AND HOT MIX ASPHALT SHALL BE 2".
 3. PIPE SHALL EXTEND BEYOND 2' AGG. BASE SHOULDERS.

TYPICAL CROSS TRAIL PIPE DRAIN

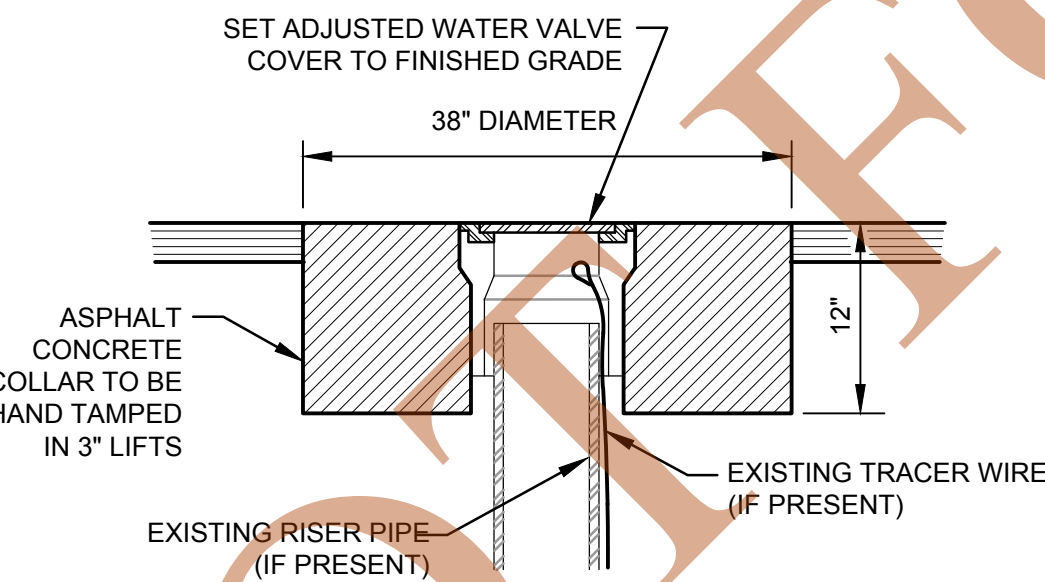
23
C502
SCALE: NTS



- NOTES:
1. SHIMS SHALL BE PLACED UNDER THE MANHOLE FRAME & LID ON TOP OF THE HIGHEST GRADE RING AS NEEDED SUCH THAT THE FRAME & LID ARE FLUSH WITH THE FINISHED GRADE OF THE STREET. THE MINIMUM SHIM HEIGHT IS ONE INCH. CONCRETE SHALL BE PLACED IN BETWEEN THE HIGHEST GRADE RING AND THE SHIMMED FRAME & LID WHEN THE CONCRETE COLLAR IS CONSTRUCTED, IN EFFECT CREATING A 'CAST-IN-PLACE' GRADE RING OF VARYING THICKNESS.
 2. ALL GRADE RINGS SHALL BE SEALED WITH NON-SHRINK GROUT ON BOTH INNER AND OUTER FACES OF EACH JOINT.

TYPICAL ADJUST MANHOLE LID TO GRADE DETAIL

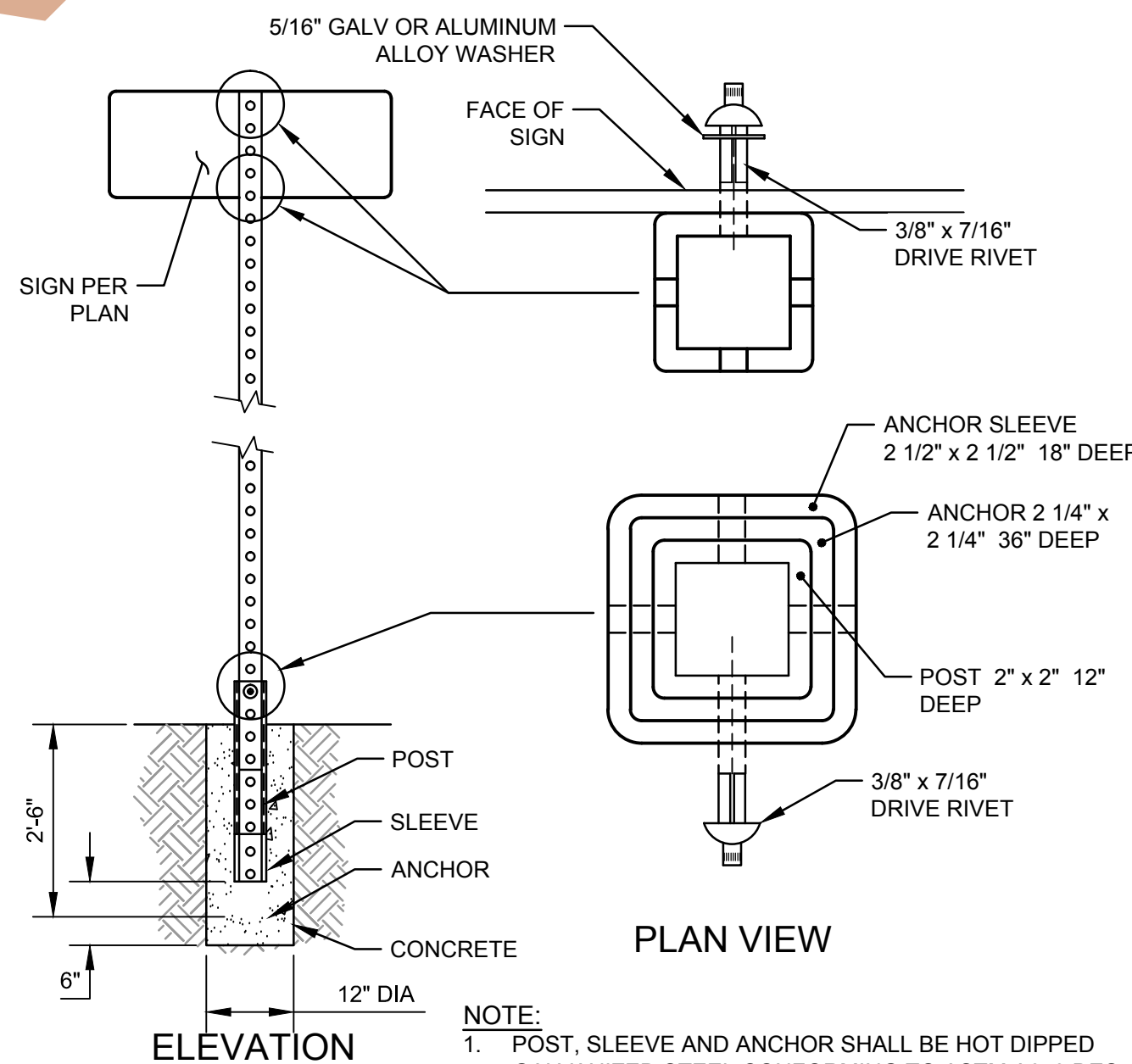
24
C-502
SCALE: NTS



- NOTES:
1. INSURE POT SLIDES FREELY OVER SLEEVE PIPE.
 2. HOT MIX ASPHALT SHALL BE PLACED IN LIFTS AND COMPACTED.
 3. LID OF POT SHOULD MATCH HEIGHT OF ADJACENT ASPHALT.
 4. EDGES OF EXISTING PAVEMENT SHALL BE CLEAN AND FREE OF DUST WITH A TACK COAT APPLIED BEFORE PAVING.
 5. IF CLEAN OUTS PLACED IN GRASS OR DIRT, RAISE POT 2 INCHES ABOVE GROUND LEVEL, AND POUR A 1 FOOT WIDE P.C.C. RING AROUND VALVE POT, 8 INCHES DEEP.

TYPICAL ADJUST WATER VALVE POT TO GRADE DETAIL

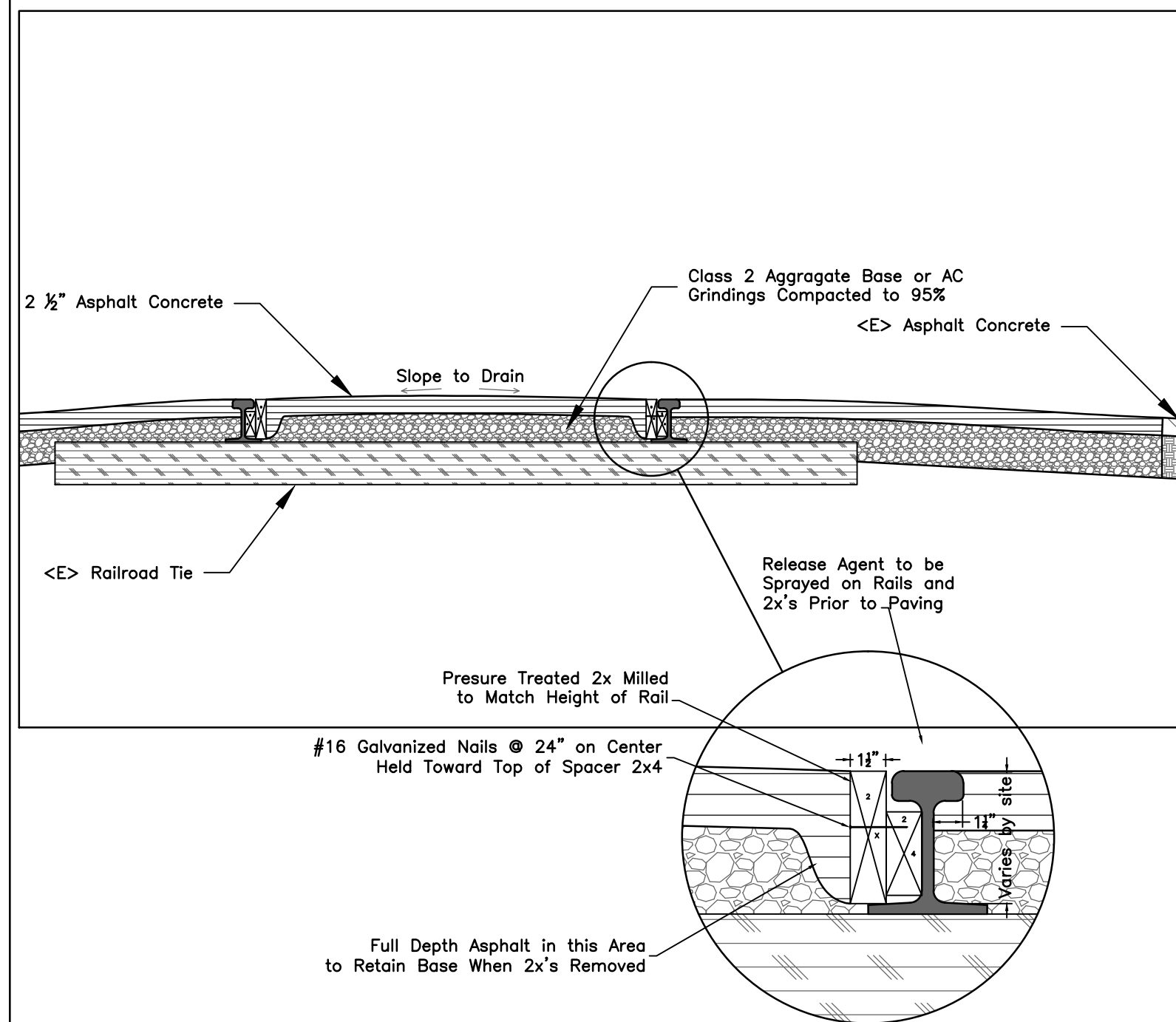
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C-502
SCALE: NTS



- NOTE:
1. POST, SLEEVE AND ANCHOR SHALL BE HOT DIPPED GALVANIZED STEEL CONFORMING TO ASTM A653 DES. G90.
 2. ANCHOR SLEEVE HOLES SHALL BE COVERED TO PREVENT CONCRETE INTRUSION.
 3. EXTEND ANCHOR ABOVE CONCRETE 1 AND 1/2 HOLES MIN.

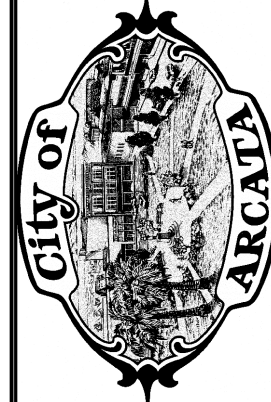
TYPICAL ROADSIDE SIGN, 1-POST DETAIL

26
C502
SCALE: NTS



RAILROAD CROSSING INFILL DETAIL

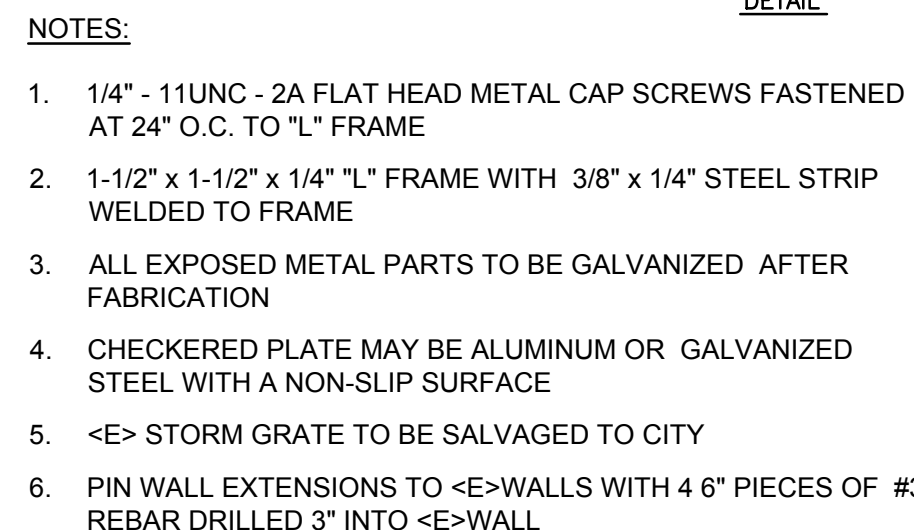
27
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SCALE: NTS



PREPARED BY:
CITY OF ARCATA
ENGINEERING DEPARTMENT

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Details
ARCATA RAILS WITH TRAILS

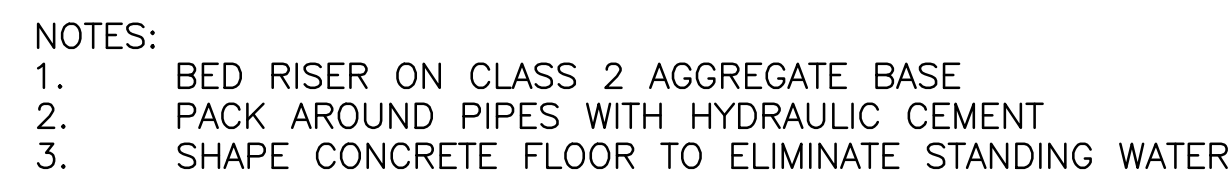


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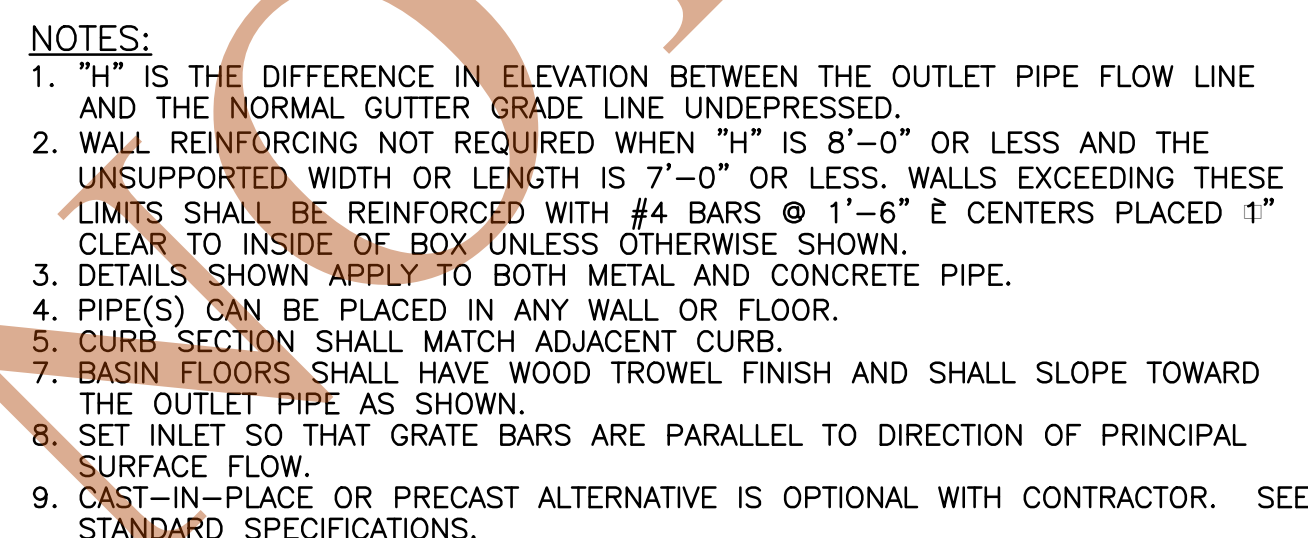
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1. CONCRETE SHALL BE A LIGHT BROOM FINISH.
2. RISERS SHALL BE NO LESS THAN 4" TALL AND NO GREATER THAN 7" TALL AND VARY NO MORE THAN 3/8" IN HEIGHT.
3. ALL EXTERIOR STAIR THREADS SHALL HAVE 2" WIDE MIN. WARNING STRIPES PER CBC 1133B.4.4
4. CONCRETE TO BE 2,500 PSI MIN.
5. POUR CONCRETE OVER COMPACTED SUBGRADE.
6. STAIR RISE & TREAD TO BE DETERMINED FOR SITE CONDITIONS BASED ON REQUIREMENTS.
7. THE TOP AND BOTTOM LANDINGS SHALL SLOPE NO MORE THAN 2% IN ANY DIRECTION.
8. BASE OF CONCRETE TO BE 6" MIN BELOW FINISHED GRADE
9. STAIRS WITH INTERMEDIATE LANDINGS SHALL BE POURED CONTINUOUS THROUGH THE LANDING WITH NO JOINTS.
10. STAIRS WITH INTERMEDIATE LANDINGS SHALL HAVE A CONTINUOUS RAILING THROUGH THE LANDING WITH NO GAPS.



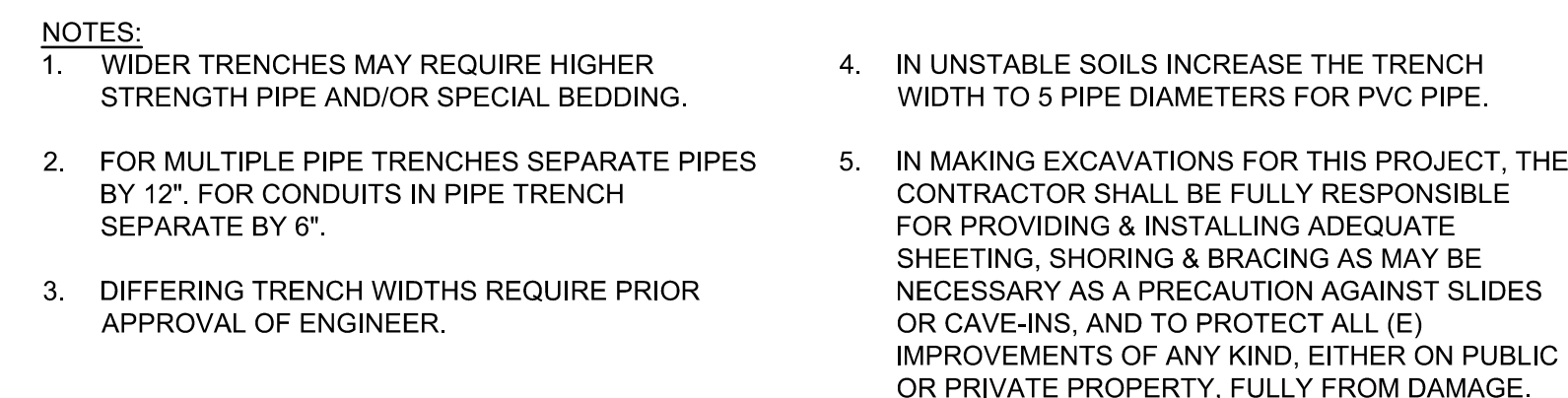
33
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STORM
SCALE: NTS



34
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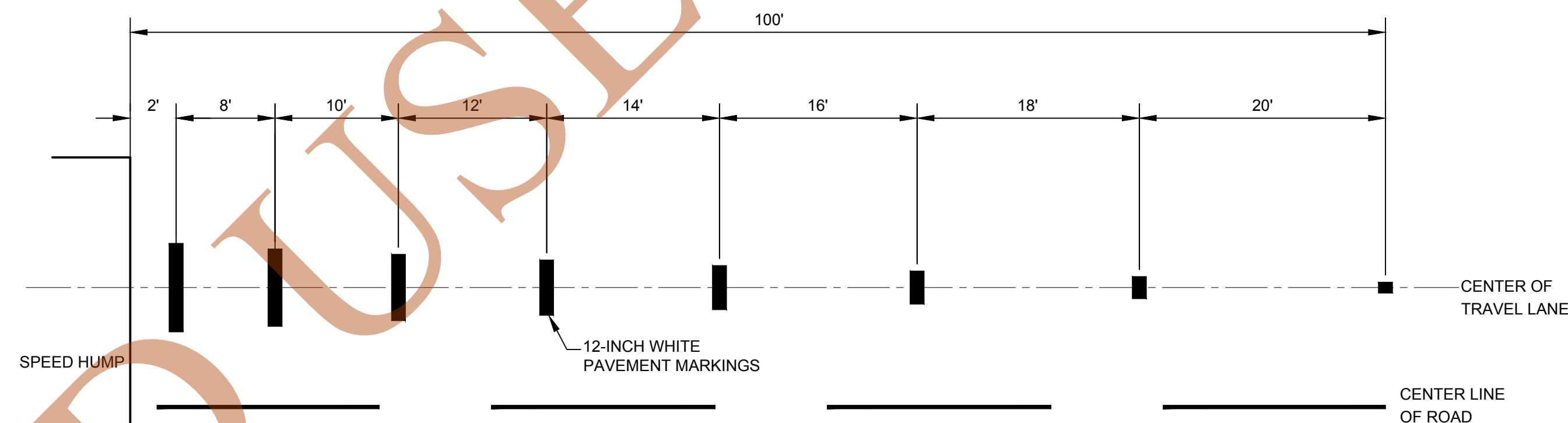
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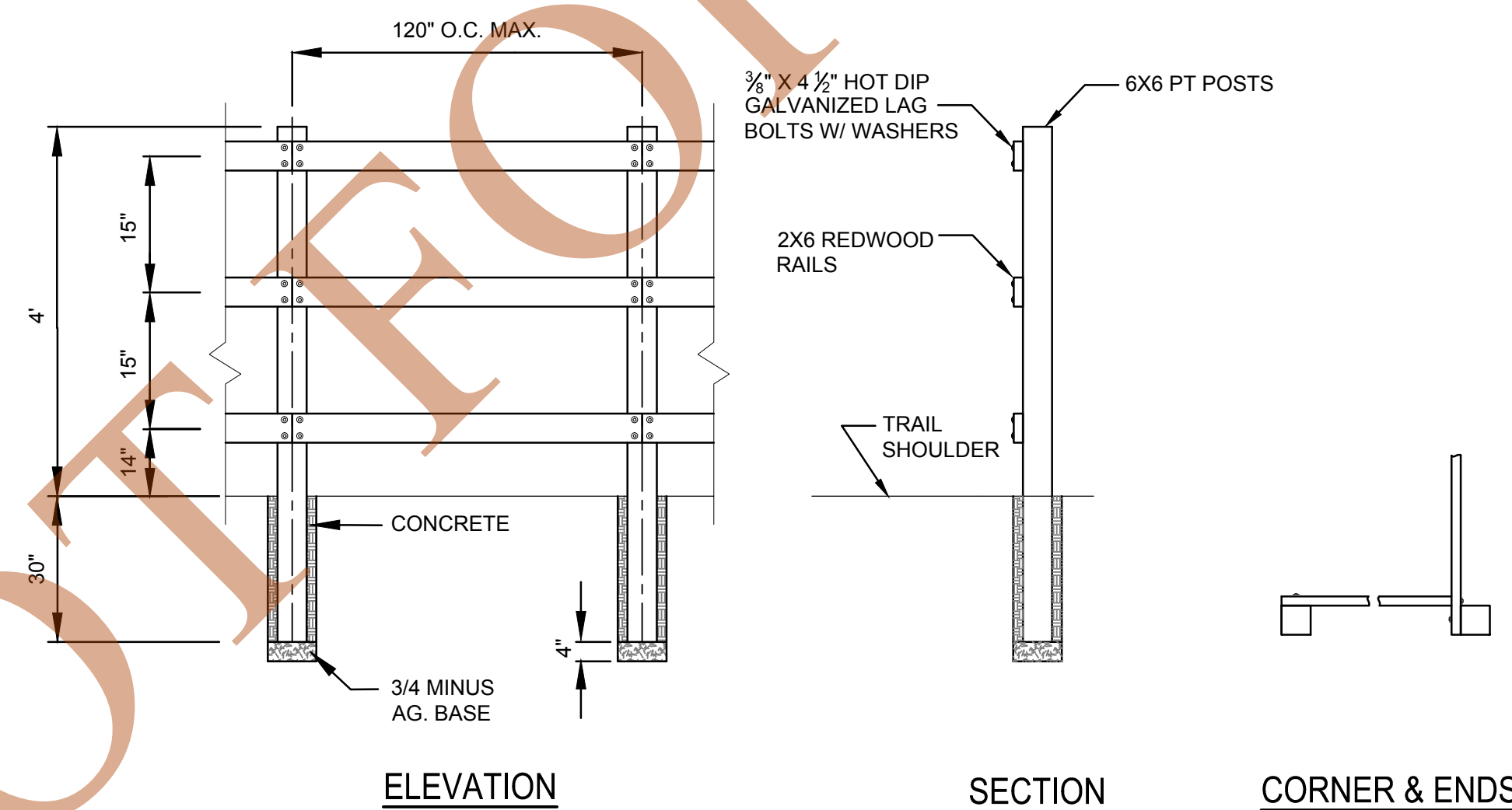
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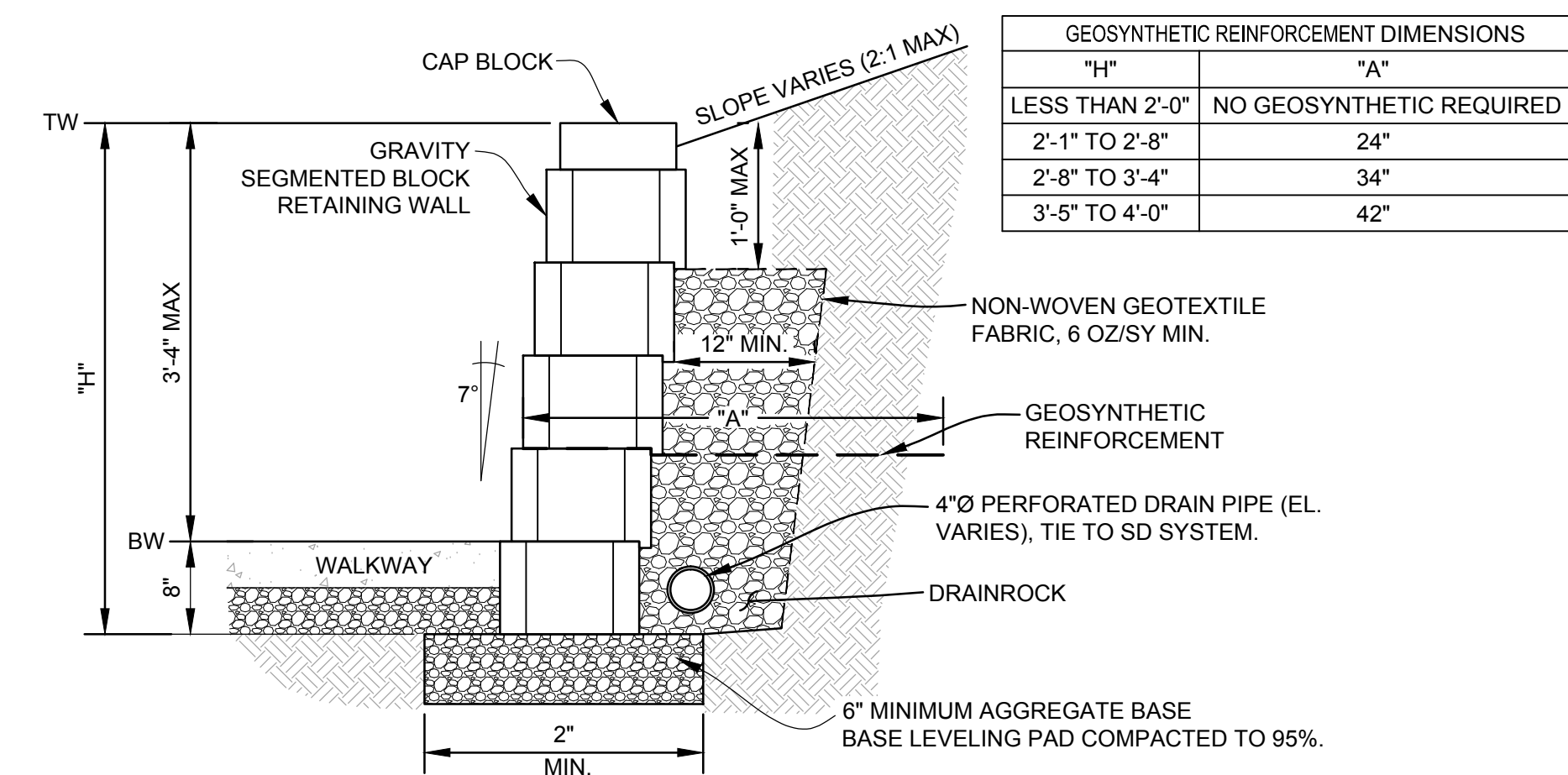
6. PLACEMENT OF 2-SACK SLURRY BACKFILL IN TRENCH WHEN MINIMUM PIPE COVER NOT POSSIBLE SHALL BE SUBJECT TO APPROVAL BY CITY ENGINEER.
7. NATIVE TOPSOIL SHALL BE STOCKPILED SEPARATELY FROM NATIVE SUBSOIL.
8. TRENCHES IN ROADWAY SHALL BE CAPPED WITH 1" OF ASPHALT COLD MIX IF HOT MIX ASPHALT WILL NOT BE PLACED WITHIN 24 HOURS.



41 C504 **SPEED HUMP ADVANCE WARNING MARKINGS DETAIL**



43 TYPICAL WOOD FENCE DETAIL



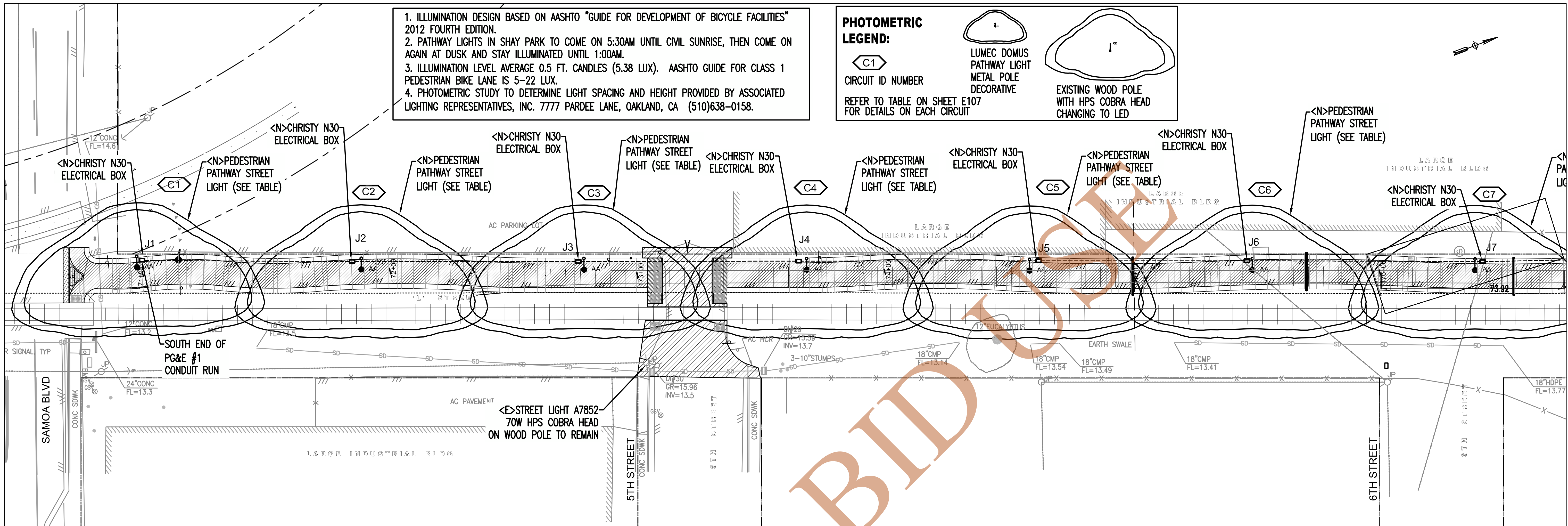
- NOTES:**
1. DRAINROCK SHALL BE DURABLE GRANULAR MATERIAL, 100% PASSING THE 1½" SIEVE, AND NOT OVER 3% PASSING THE NO. 10 SIEVE. WASHED PEA GRAVEL, OR DRAINROCK AS COMMONLY USED FOR SEPTIC LEACHFIELD OR HIGHWAY APPLICATIONS SHOULD QUALIFY AS PERMEABLE MATERIAL. DRAINROCK SHOULD BE PLACED TO APPROXIMATELY THREE-QUARTERS THE HEIGHT OF THE RETAINING WALL.
 2. PIPE SHOULD CONFORM TO THE REQUIREMENTS OF SECTION 68 OF THE CALTRANS STANDARDS SPECIFICATIONS, PERFORATIONS PLACED DOWN, SLOPED AT 1% FOR GRAVITY FLOW TO OUTLET. THE PIPE INVERT SHOULD BE LOCATED AT LEAST 8 INCHES BELOW THE FINISHED GRADE.
 3. DURING COMPACTION THE CONTRACTOR SHOULD USE APPROPRIATE METHODS SUCH AS TEMPORARY BRACING AND/OR LIGHT COMPACTION EQUIPMENT TO AVOID OVERSTRESSING THE WALLS. NON-EXPANSIVE SOILS SHALL BE USED AS BACKFILL.
 4. SLOPE EXCAVATION BACK AT A 1:1 GRADIENT FROM THE BACK OF FOOTING WHERE EXPANSIVE MATERIALS ARE EXPOSED.

44
C504

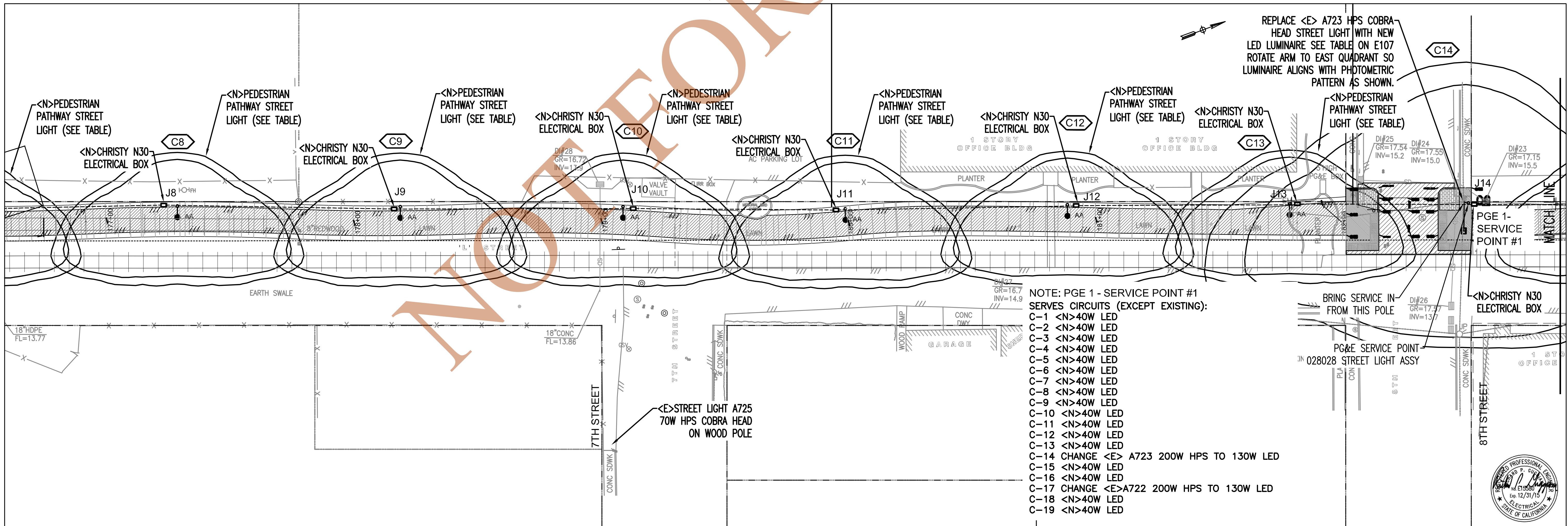
TYPICAL GRAVITY RETAINING WALL DETAIL

SCALE: NTS

SAMOA BLVD TO 6TH ST. - SCALE 1:20



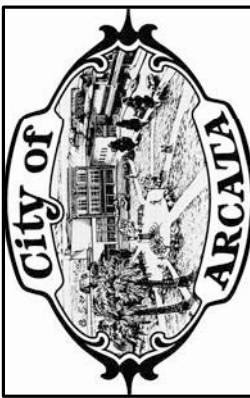
6TH ST. TO 8TH ST. - SCALE 1:20



APPROVED FOR PG&E SERVICE POINT DESIGN - NOT FOR CONSTRUCTION

K:\Public Works\Jobs\Railroads\Trails with Trails\1_RWT_Dec_2013\Street Lighting Electrical\1_RWT_ELEC_2014-03-07_PGE UPDATE.dwg

2/11/2013



PREPARED BY:
CITY OF ARCATA
ENGINEERING DEPARTMENT
ARCATA PUBLIC WORKS

NO.	DATE	BY	REVISION
01/23/14	DAVID B. M. EARLY	DAVID B. M. EARLY	REVISION

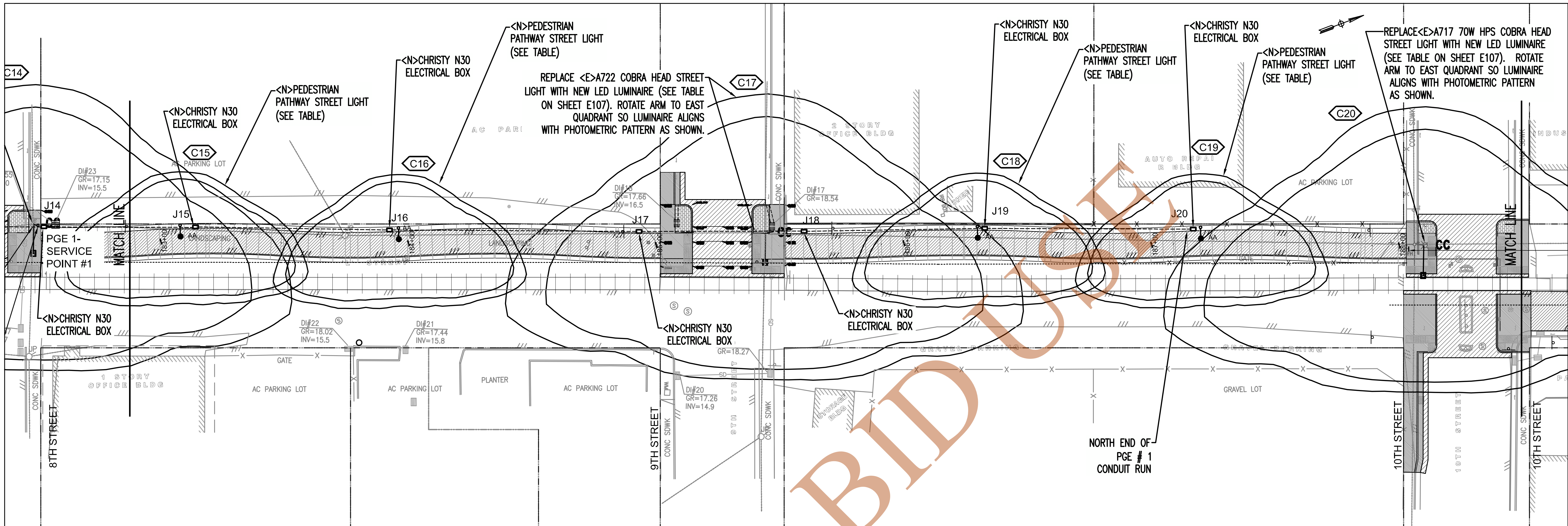
RAILS WITH TRAILS PHASE 1
ARCATA, CALIFORNIA

Date 03/07/14
Scale 1:20
Sheet No. 30 OF 36
File No. E101

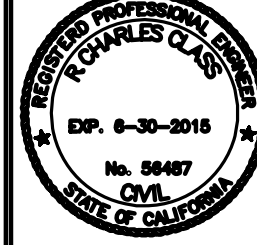
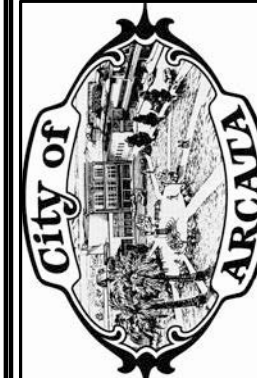
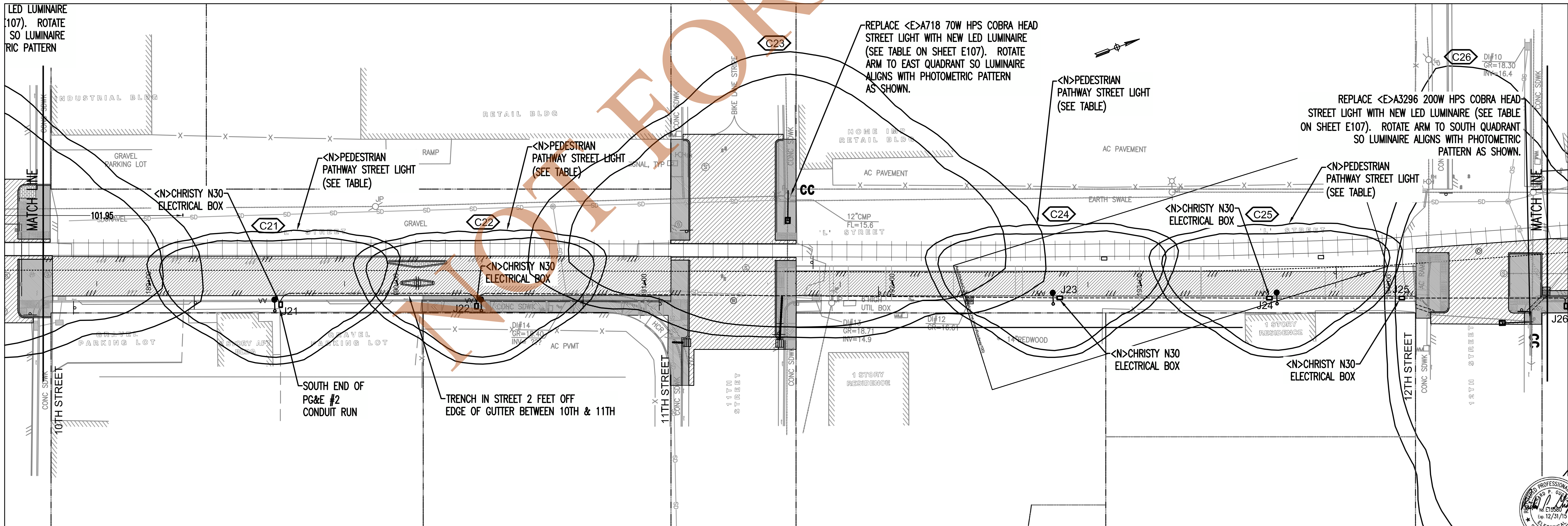
K:\Public Works\Jobs\Railroads\Trails with Trails L_RWT_Dec_2013\Street Lighting Electrical\RWTELEC 2014-03-07 PGE UPDATE.dwg

2/11/2013

8TH ST. TO 10TH ST. - SCALE 1:20



10TH ST. TO 12TH ST. - SCALE 1:20

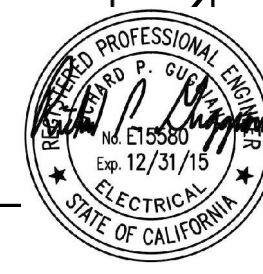


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ARCATA PUBLIC WORKS

ELECTRICAL

RAILS WITH TRAILS PHASE 1
ARCATA, CALIFORNIA

Date: 03/07/14
Scale: 1:20
Sheet No.: 31 OF 36
File No.: **E102**



REPLACE <E>A3296 200W HPS COBRA HEAD STREET LIGHT WITH NEW LED LUMINAIRE (SEE TABLE E107). ROTATE ARM TO SOUTH QUADRANT SO LUMINAIRE ALIGNS WITH PHOTOMETRIC PATTERN AS SHOWN.

>PEDESTRIAN THWAY STREET LIGHT (SEE TABLE)

WATCH LINE

CONC SDWK

J26

J27

J28

J29

J30

J31

PGE 2 - SERVICE POINT #2

STORAGE

AC PAVEMENT

EARTH SPACE

STORAGE BUILDING

STREET LIGHT

PEDESTRIAN PATHWAY STREET LIGHT

CHRISTY N30 ELECTRICAL BOX

C26

C27

C28

C29

C30

C31

C32

NORTH END OF PG&E #2 CONDUIT RUN

MATCH LINE

12TH STREET

13TH STREET

PG&E UNDERGROUND AT END OF L ST.

PG&E SERVICE POINT FROM <E>UNDERGROUND SERVICE

NOTES PGE 2 SERVICE POINT
SERVES CIRCUITS (EXCEPT EXISTING):
C20 CHANGE <E>A717 70W HPS TO 130W LED
C21 <N>40W LED
C22 <N>40W LED
C23 CHANGE <E>A718 70 HPS TO 130W LED
C24 <N> 40W LED
C25 <N> 40W LED
C26 CHANGE <E> A3296 200W HPS TO 130W LED
C27 <N> 40W LED
C28 <N> 40W LED
C29 <N> 40W LED
C30 <N> 40W LED
C31 <N> 40W LED

REPLACE <E>A702 200W HPS COBRA HEAD STREET LIGHT WITH NEW LED LUMINAIRE (SEE TABLE ON SHEET E107). ROTATE ARM TO PROPER QUADRANT SO LUMINAIRE ALIGNS WITH PHOTOMETRIC PATTERN AS SHOWN.

<N>CHRISTY N30 ELECTRICAL BOX

C32

C33

J32

SOUTH END OF PG&E #3 CONDUIT RUN

<N>PEDESTRIAN PATHWAY STREET LIGHT (SEE TABLE)

J33

<N>CHRISTY N30 ELECTRICAL BOX

C34

J34

<N>PEDESTRIAN PATHWAY STREET LIGHT (SEE TABLE)

J35

<N>CHRISTY N30 ELECTRICAL BOX

C35

ALLIANCE ROAD

DJ#8 GR=27.45 NV=23.0

CONC SOWK

NOTES: PGE 3 SERVICE POINT SERVES CIRCUITS (EXCEPT EXISTING):
 C-32 CHANGE A702 200W HS TO 130W LED
 C-33 <N> 40W LED
 C-34 <N> 40W LED
 C-35 <N> 40W LED
 C-36 CHANGE <E> A701 200W HPS TO 130W LED AND RELOCATE POLE BEHIND NEW PATHWAY.
 C-37 <N> 40W LED
 C-38 <N> 40W LED
 C-39 <N> 40W LED
 C-40 <N> 40W LED

<N>PEDESTRIAN PATHWAY STREET LIGHT (SEE TABLE)

J36

PGE 3 - SERVICE POINT #3

RELOCATE EXISTING POLE TO BACK OF WALK.

<N>PG&E SERVICE POINT WITH RISER ON POLE TO FEED UNDERGROUND 028028 BOX.

<N>CHRISTY N30 ELECTRICAL BOX

C36

REPLACE <E>A701 200W HPS COBRA STREET LIGHT WITH NEW LED LUMINAIRE (SEE TABLE ON SHEET E107). RELOCATE POLE BEHIND TRAIL AS SHOWN. ROTATE ARM TO WEST QUADRANT SO LUMINAIRE ALIGNS WITH PHOTOMETRIC PATTERN AS SHOWN.

<N>CHRISTY N30 ELECTRICAL BOX

C37

J37

<N>PEDESTRIAN PATHWAY STREET LIGHT (SEE TABLE)

<N>PEDESTRIAN PATHWAY STREET LIGHT (SEE TABLE)

<N>CHRISTY N30 ELECTRICAL BOX

C38

J38

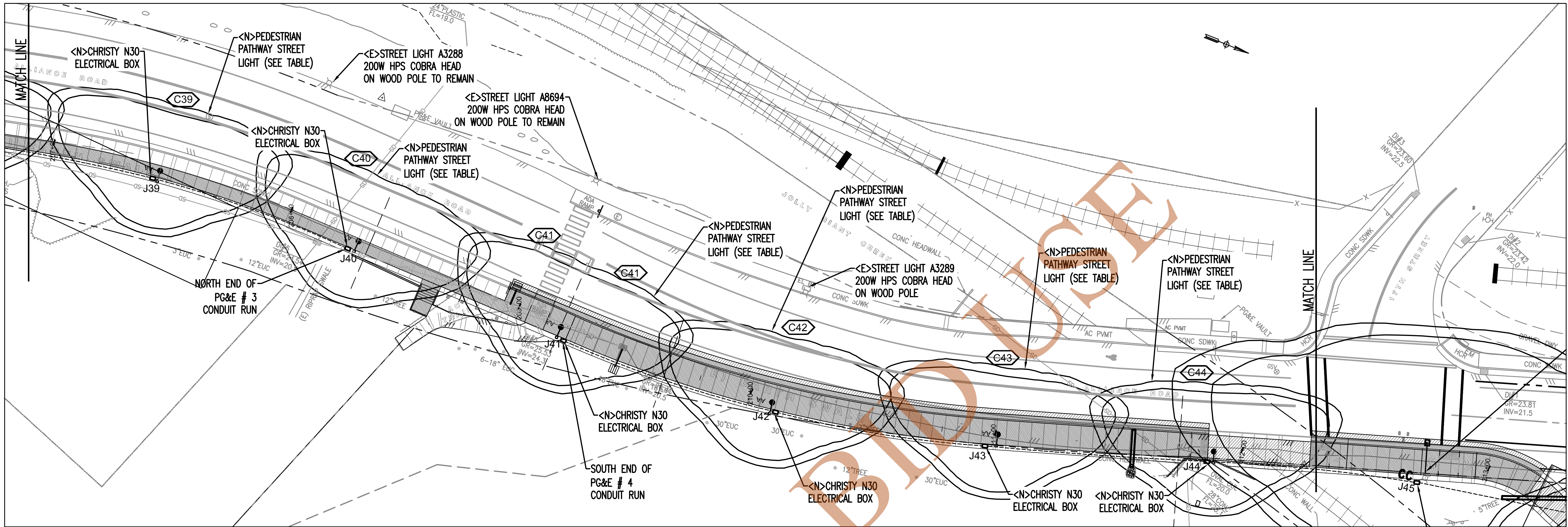
MATCH LINE

CONC SOWK

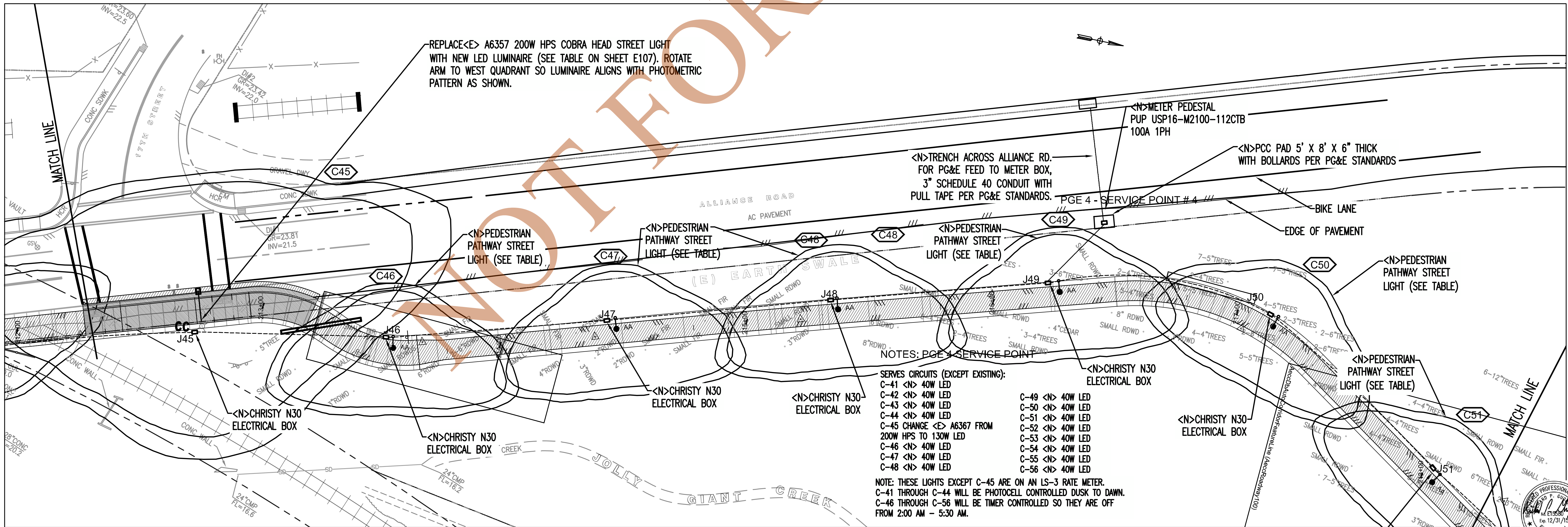
LIMITS OF BRUSH SMALL TREES

PROFESSIONAL SEAL

ALLIANCE RD. STA 207+00 - STA 213+00 - SCALE 1:20



ALLIANCE RD. ENTERING SHAY PARK AT 17TH ST. STA 212+50 TO STA 218+25 - SCALE 1:20



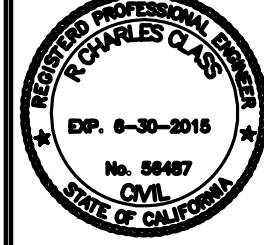
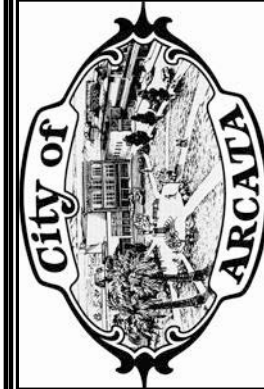
NOTES: PCE SERVICE POINT

- SERVES CIRCUITS (EXCEPT EXISTING):
- | | |
|----------------------------|------------------|
| C-41 <N> 40W LED | C-49 <N> 40W LED |
| C-42 <N> 40W LED | C-50 <N> 40W LED |
| C-43 <N> 40W LED | C-51 <N> 40W LED |
| C-44 <N> 40W LED | C-52 <N> 40W LED |
| C-45 CHANGE <E> A6367 FROM | C-53 <N> 40W LED |
| 200W HPS TO 130W LED | C-54 <N> 40W LED |
| C-46 <N> 40W LED | C-55 <N> 40W LED |
| C-47 <N> 40W LED | C-56 <N> 40W LED |
| C-48 <N> 40W LED | |

NOTE: THESE LIGHTS EXCEPT C-45 ARE ON AN LS-3 RATE METER.
C-41 THROUGH C-44 WILL BE PHOTOCELL CONTROLLED DUSK TO DAWN.
C-46 THROUGH C-56 WILL BE TIMER CONTROLLED SO THEY ARE OFF FROM 2:00 AM - 5:30 AM.

K:\Public Works\Jobs\Railroads\Trails with Trails L_RWT_Dec_2013\Street Lighting Electrical\RWT_ELEC 2014-03-07 PGE UPDATE.dwg

2/11/2013



PREPARED BY:
CITY OF ARCATA
ENGINEERING DEPARTMENT
ARCATA PUBLIC WORKS

ELECTRICAL

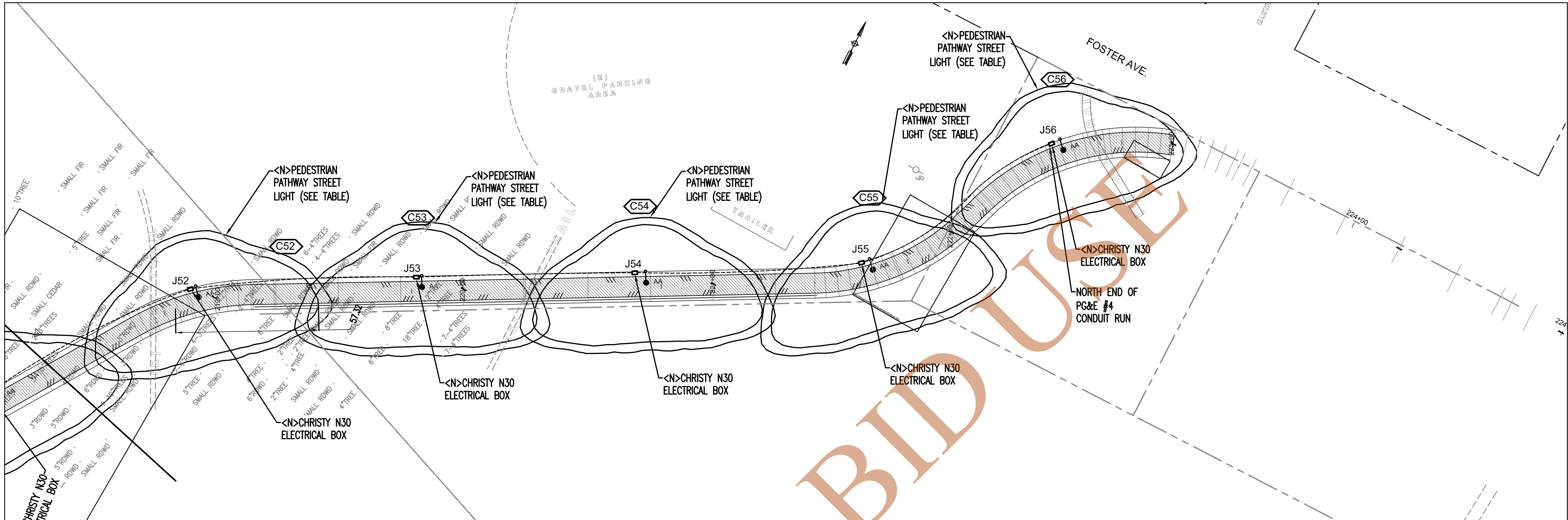
NO.	DATE	BY	REVISION
1	07/31/14	EARLY	

RAILS WITH TRAILS PHASE 1
ARCATA, CALIFORNIA

Date: 03/07/14
Scale: 1:20
Sheet No.: 33 OF 36
File No.: **E104**



17TH & ALLIANCE TO SHAY PARK STA 212 - STA 218 - SCALE 1:20



CUT SHEETS FOR STREET LIGHTS AND PULL BOX LOCKING LID

LED LUMINAIRE

Qty: 1 Luminaire D05-40W30 LED-45-150V-VOLT-BKTY

Description of Components:

Housing: In a round shape, this housing is made of die cast A380 aluminum, die cast with a light gray finish, mechanically assembled to the luminaire with four 1/8" x 1/8" LUNC. The suspension system permits for a full rotation of the luminaire in 90 degree increments.

Access-Mechanism: A die cast A380 aluminum mechanical ring with latch, hinge and a cast in decorative skirt. The mechanism shall offer positive access to the inside of the luminaire. An integrated memory-protected gasket shall ensure waterproofing.

Light Engine: LUMED® composed of a main components: LED lamp / Optical System / Heat Sink / Driver

Electrical components: are RoHS compliant

Lens: Made of soda-lime tempered glass lens, mechanically assembled and sealed onto the lower part of the heat sink.

Lamp: (included) Lamp type Philips Lumileds Rebel ES. Composed of 30 high-performance white LEDs, low lamp voltage, Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifetime after which the system emits 70% of its original lumen output, all of these parameters are tested for 100% of light engines. Use of a metal core board ensures greater heat transfer and longer lifespan of the light engine.

Optical System: (LEP) ES type II (asymmetric). Composed of high-performance acrylic collimators, optimized with varying beam angles to achieve desired distribution. System is rated IP68. Performance shall be tested per LM80 and LM79 (IESNA) confirmed by independent performance. Shield angle indicated.

Heat Sink: Made of cast aluminum optimizing the LED efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Driver: High power factor of 90%. Electronic driver, operating range 100V to 240V AC. Primary voltage to be determined. Allowed voltage are 105, 208 or 240 volt. Lamp starting capacity 400% (400% degrees). Assembled on a universal removable key with quick disconnect plug.

ARCATA LED Pathway Lighting

Configuration

Qty: 1 Standard D05A-14-BKTY

Description of Components:

Arm: Shall be made from bent aluminum tubing 6061-T6, 1.58" (41mm) outside diameter, welded.

Adapter: Made of cast 355 aluminum. Slip-fit on a 2" (51mm) outside diameter x 8" (127mm) long beam. Mechanically assembled.

ARCATA LED Pathway Lighting

Configuration

Qty: 1 Standard D05A-14-BKTY

Description of Components:

Arm: Shall be made from bent aluminum tubing 6061-T6, 1.58" (41mm) outside diameter, welded.

Adapter: Made of cast 355 aluminum. Slip-fit on a 2" (51mm) outside diameter x 8" (127mm) long beam. Mechanically assembled.

ARCATA LED Pathway Lighting

Configuration

Qty: 1 Standard D05A-14-BKTY

Description of Components:

Arm: Shall be made from bent aluminum tubing 6061-T6, 1.58" (41mm) outside diameter, welded.

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ARCATA LED Pathway Lighting

Configuration

Qty: 1 Standard D05A-14-BKTY

Description of Components:

Arm: Shall be made from bent aluminum tubing 6061-T6, 1.58" (41mm) outside diameter, welded.

Adapter: Made of cast 355 aluminum. Slip-fit on a 2" (51mm) outside diameter x 8" (127mm) long beam. Mechanically assembled.

ARCATA LED Pathway Lighting

Configuration

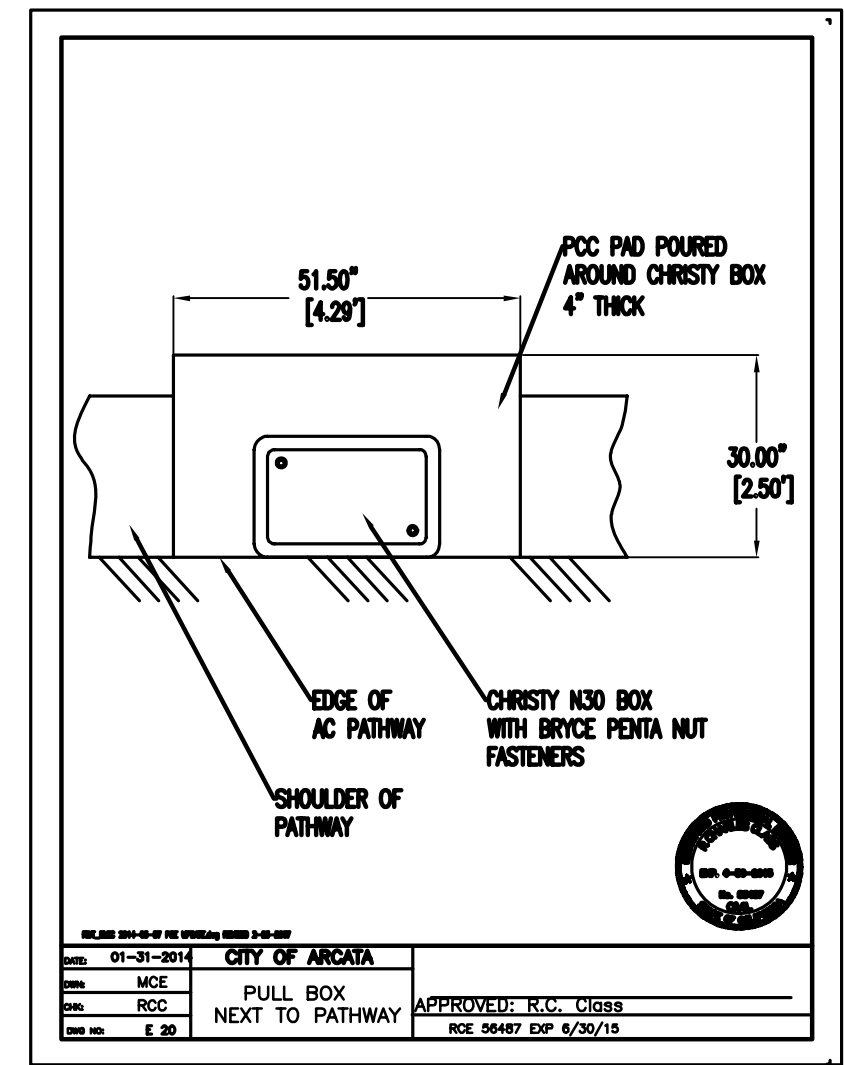
Qty: 1 Standard D05A-14-BKTY

Description of Components:

Arm: Shall be made from bent aluminum tubing 6061-T6, 1.58" (41mm) outside diameter, welded.

Adapter: Made of cast 355 aluminum. Slip-fit on a 2" (51mm) outside diameter x 8" (127mm) long beam. Mechanically assembled.

DETAIL FOR SETTING PULL BOX



LEOTEK

LED GREEN Cobra Street Light

Ordering Options

Qty: 1 Luminaire D05-40W30 LED-45-150V-VOLT-BKTY

Description of Components:

Housing: In a round shape, this housing is made of die cast A380 aluminum, die cast with a light gray finish, mechanically assembled to the luminaire with four 1/8" x 1/8" LUNC. The suspension system permits for a full rotation of the luminaire in 90 degree increments.

Access-Mechanism: A die cast A380 aluminum mechanical ring with latch, hinge and a cast in decorative skirt. The mechanism shall offer positive access to the inside of the luminaire. An integrated memory-protected gasket shall ensure waterproofing.

Light Engine: LUMED® composed of a main components: LED lamp / Optical System / Heat Sink / Driver

Electrical components: are RoHS compliant

Lens: Made of soda-lime tempered glass lens, mechanically assembled and sealed onto the lower part of the heat sink.

Lamp: (included) Lamp type Philips Lumileds Rebel ES. Composed of 30 high-performance white LEDs, low lamp voltage, Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifetime after which the system emits 70% of its original lumen output, all of these parameters are tested for 100% of light engines. Use of a metal core board ensures greater heat transfer and longer lifespan of the light engine.

Optical System: (LEP) ES type II (asymmetric). Composed of high-performance acrylic collimators, optimized with varying beam angles to achieve desired distribution. System is rated IP68. Performance shall be tested per LM80 and LM79 (IESNA) confirmed by independent performance. Shield angle indicated.

Heat Sink: Made of cast aluminum optimizing the LED efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Driver: High power factor of 90%. Electronic driver, operating range 100V to 240V AC. Primary voltage to be determined. Allowed voltage are 105, 208 or 240 volt. Lamp starting capacity 400% (400% degrees). Assembled on a universal removable key with quick disconnect plug.

CUSTOMER FORMAT DRAWING

SKU: 3005221

ITEM: REX KEY, STEEL SECURITY COVER

EST WEIGHT: 37 LBS

ITEM: BLACK REX KEY (HARDWARE PAINT) (SHOWN) OR HOT DIPPED GALVANIZED (SKU # 3005225)

CUSTOMER FORMAT DRAWING:

REX OES KEY FOR THE OES BOLTS

SKU: 3005221

ITEM: REX KEY, STEEL SECURITY COVER

EST WEIGHT: 37 LBS

ITEM: BLACK REX KEY (HARDWARE PAINT) (SHOWN) OR HOT DIPPED GALVANIZED (SKU # 3005225)

CUSTOMER FORMAT DRAWING

SKU: 3005221

ITEM: REX KEY, STEEL SECURITY COVER

EST WEIGHT: 37 LBS

ITEM: BLACK REX KEY (HARDWARE PAINT) (SHOWN) OR HOT DIPPED GALVANIZED (SKU # 3005225)

CITY OF ARCAT

ENGINEERING DEPARTMENT

ARCATA PUBLIC WORKS

ELECTRICAL

RAILS WITH TRAILS PHASE 1

ARCATA, CALIFORNIA

DATE 03/07/14

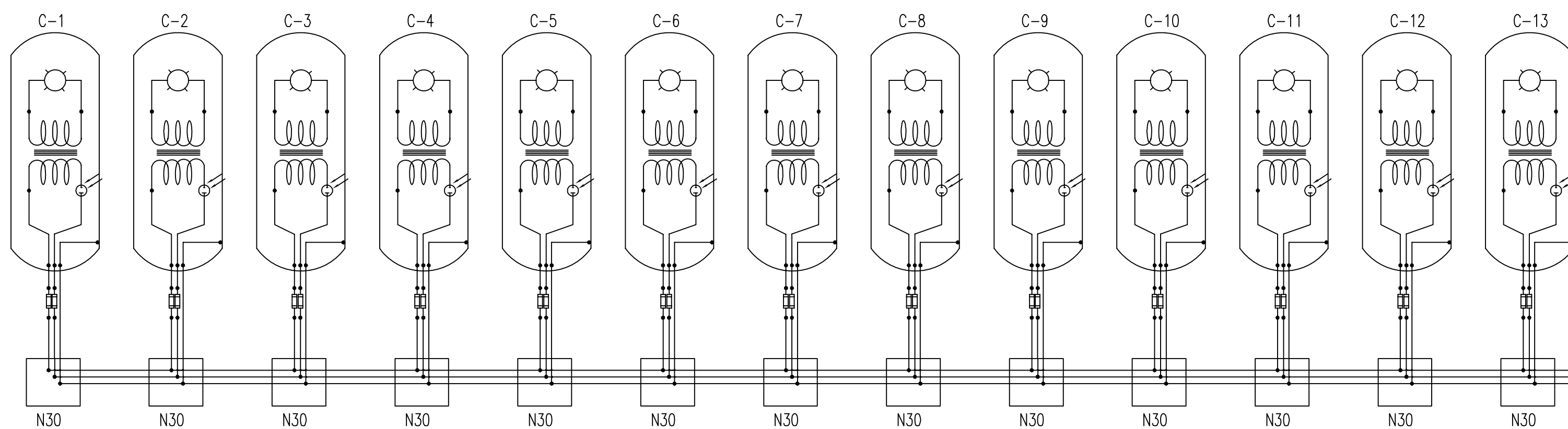
Scale 1:20

Sheet No. 34 OF 36

File No. E105

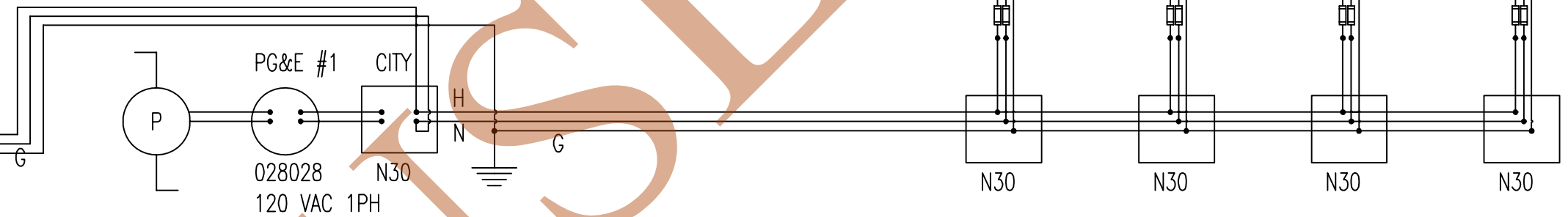
CIRCUIT DIAGRAM FOR NEW LIGHTS

PG&E APPLICATION #: 107581007



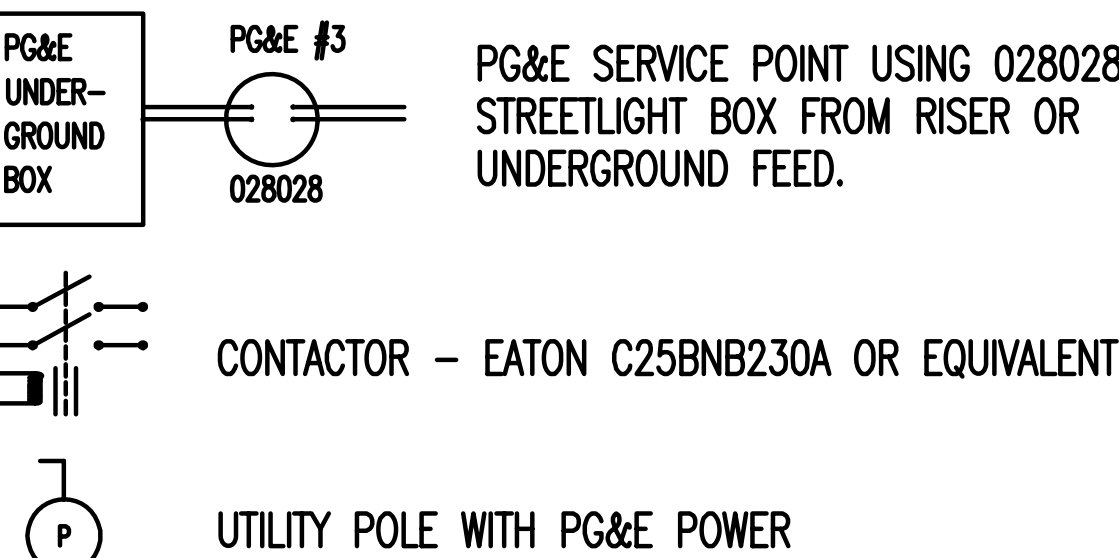
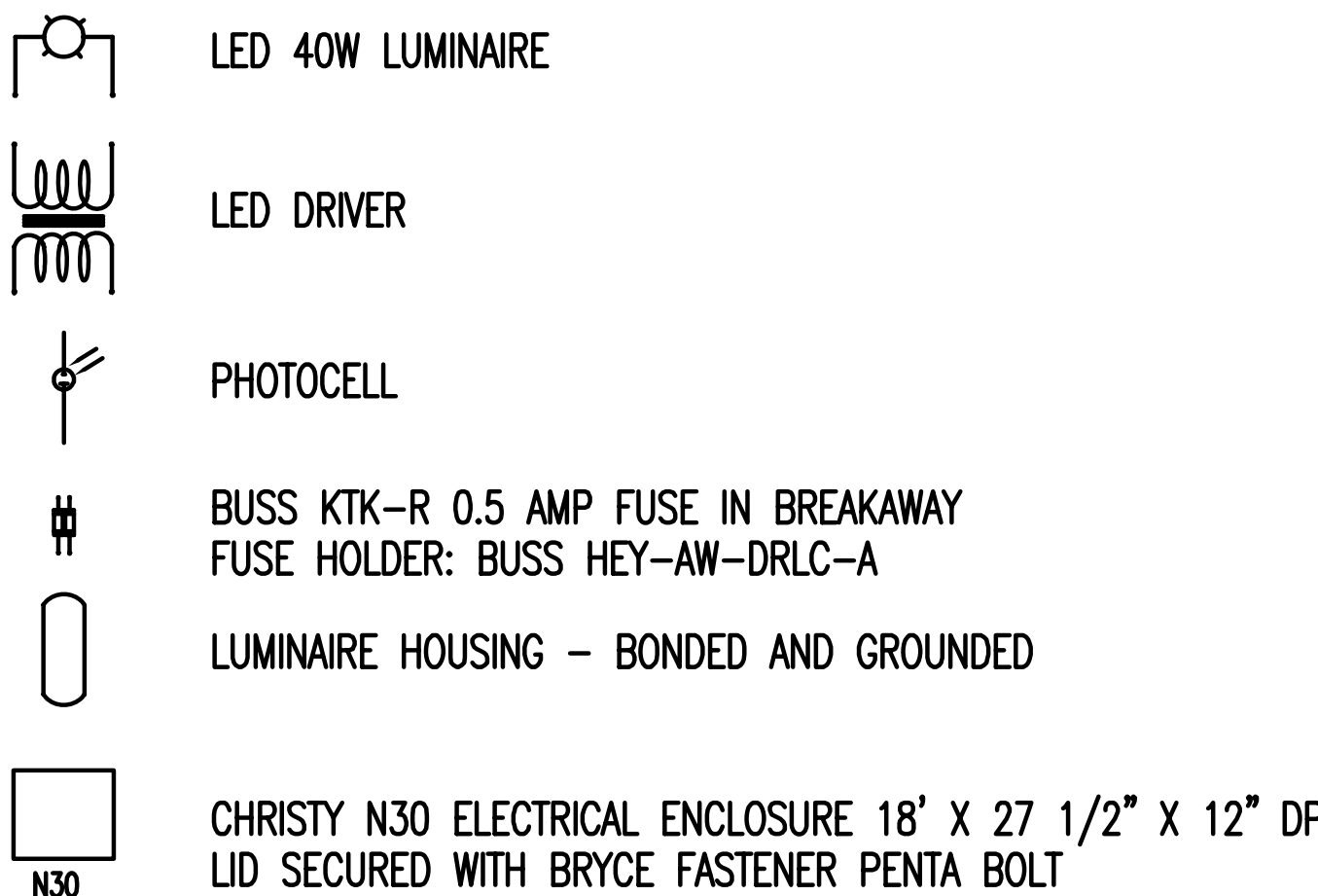
PGE 1 - SERVICE POINT #1
SERVES CIRCUITS (EXCEPT EXISTING):

- C-1 <N>40W LED
- C-2 <N>40W LED
- C-3 <N>40W LED
- C-4 <N>40W LED
- C-5 <N>40W LED
- C-6 <N>40W LED
- C-7 <N>40W LED
- C-8 <N>40W LED
- C-9 <N>40W LED
- C-10 <N>40W LED
- C-11 <N>40W LED
- C-12 <N>40W LED
- C-13 <N>40W LED
- C-14 CHANGE <E> A723 200W HPS TO 130W LED
- C-15 <N>40W LED
- C-16 <N>40W LED
- C-17 CHANGE <E>A722 200W HPS TO 130W LED
- C-18 <N>40W LED
- C-19 <N>40W LED

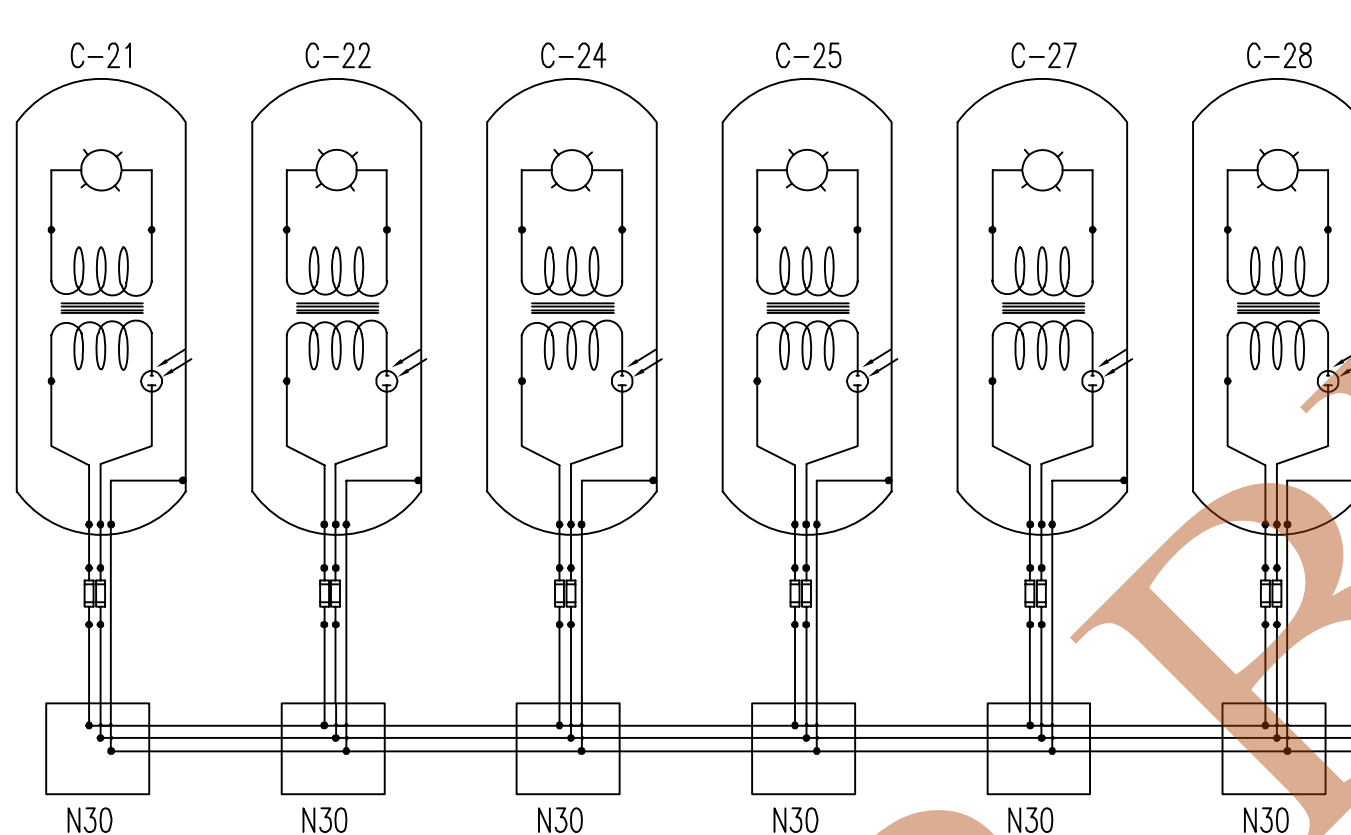


SCHEMATIC FOR PG&E SERVICE POINT 1 - PATHWAY LIGHTING BETWEEN SAMOA BLVD. AND 10TH ST

ELECTRICAL SYMBOLS AND LEGEND



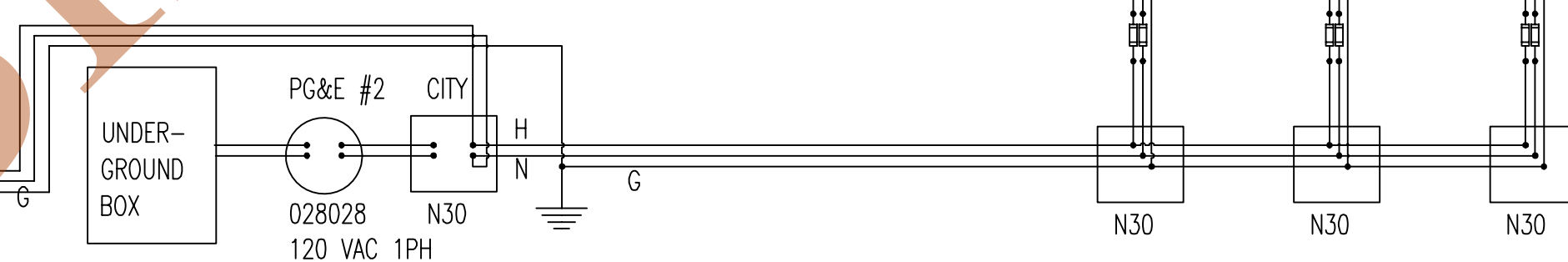
ALL WORK MUST CONFORM TO CALTRANS STD SPECIFICATIONS 2010 SECTION 86
METER PEDESTAL SHALL BE INSPECTED BY CITY BUILDING DEPT PERMIT # 12283
H = HOT (BLACK), N = NEUTRAL (WHITE), G = GROUND (GREEN)



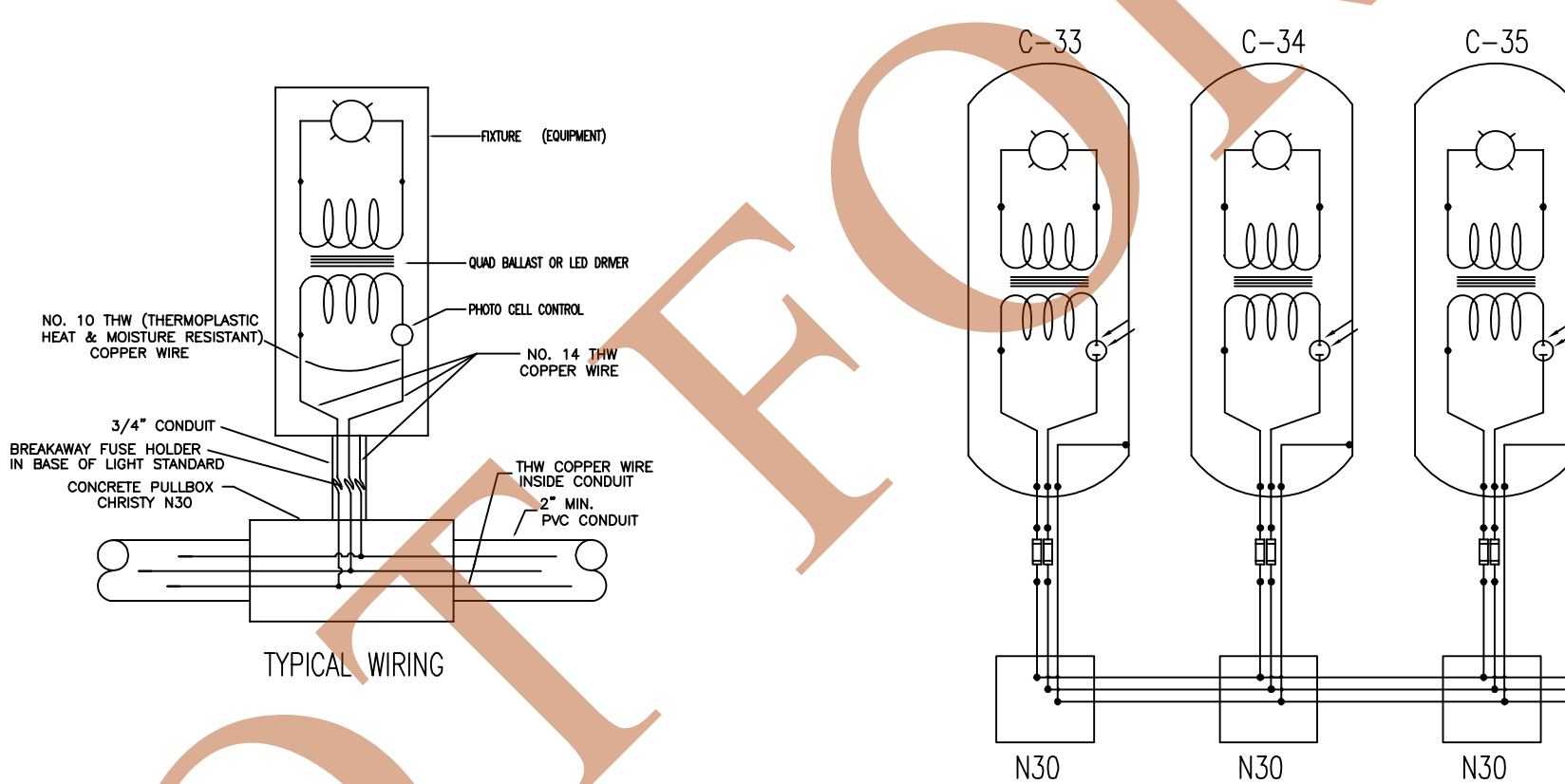
PGE 2 - SERVICE POINT #

SERIES CIRCUITS (EXCEPT EXISTING):

- C20 CHANGE (<>) A717 70W HPS TO 130 LED
- C21 (<>) 40W LED
- C22 (<>) 40W LED
- C23 CHANGE (<>) A718 70 HPS TO 130W LED
- C24 (<>) 40W LED
- C25 (<>) 40W LED
- C26 CHANGE (<>) A3296 200W HPS TO 130W LED
- C27 (<>) 40W LED
- C28 (<>) 40W LED
- C29 (<>) 40W LED
- C30 (<>) 40W LED
- C31 (<>) 40W LED



SCHEMATIC FOR PG&E SERVICE POINT 2 - PATHWAY LIGHTING 10TH ST. TO ALLIANCE RD



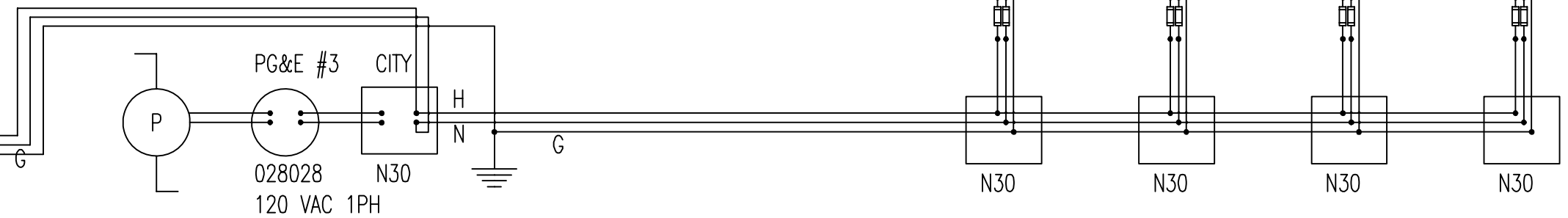
PGE 3 - SERVICE POINT #3

SERVES CIRCUITS (EXCEPT EXISTING):

- C-32 CHANGE A702 200W HS TO 130W LED
- C-33 <N> WOOD POLE 130W LED
- C-34 <N> 40W LED
- C-35 <N> 40W LED
- C-36 CHANGE <E> A701 200W HPS TO 130W LED

AND RELOCATE POLE BEHIND NEW PATHWAY.

- C-37 <N> 40W LED
- C-38 <N> 40W LED
- C-39 <N> 40W LED
- C-40 <N> 40W LED

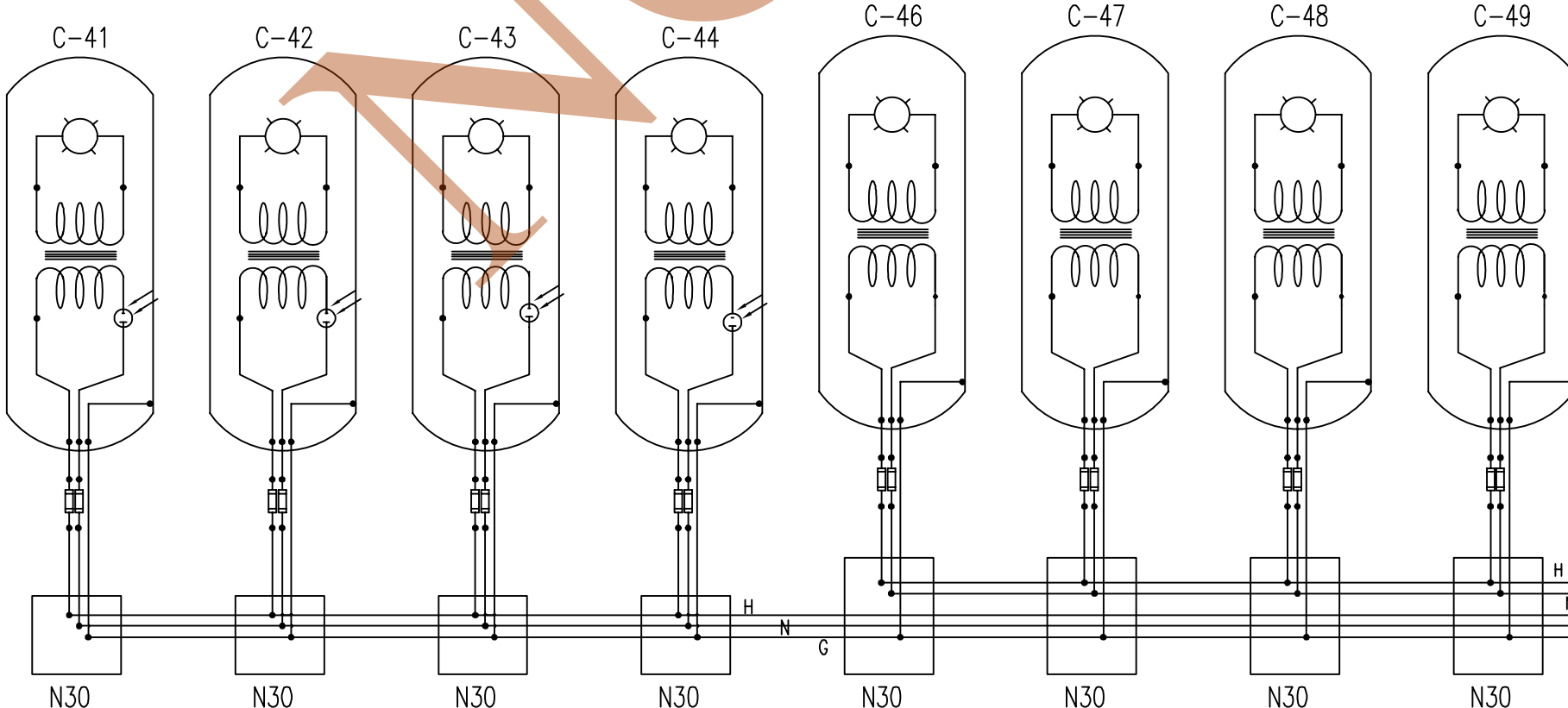


SCHEMATIC FOR PG&E SERVICE POINT 3 - PATHWAY LIGHTING ALLIANCE RD. FROM CROSSING TO NORTH OF 15TH ST

PGE 4 - SERVICE POINT #4

SERVES CIRCUITS (EXCEPT EXISTING):	
C-41 <N> 40W LED	C-49 <N> 40W LED
C-42 <N> 40W LED	C-50 <N> 40W LED
C-43 <N> 40W LED	C-51 <N> 40W LED
C-44 <N> 40W LED	C-52 <N> 40W LED
C-45 CHANGE <D> A6357 FROM 200 HPS TO 130W LED	C-53 <N> 40W LED
C-46 <N> 40W LED	C-54 <N> 40W LED
C-47 <N> 40W LED	C-55 <N> 40W LED
C-48 <N> 40W LED	C-56 <N> 40W LED

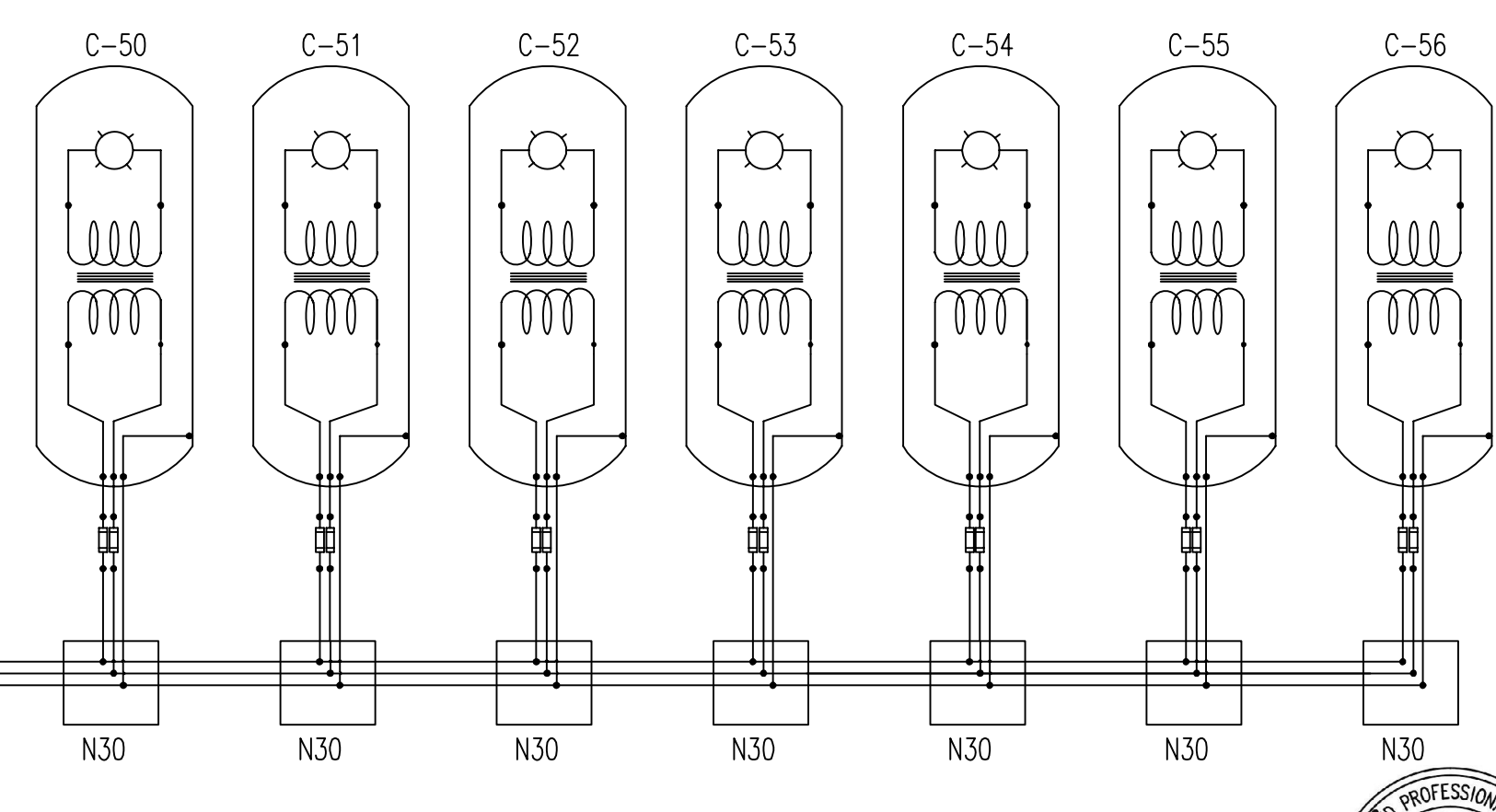
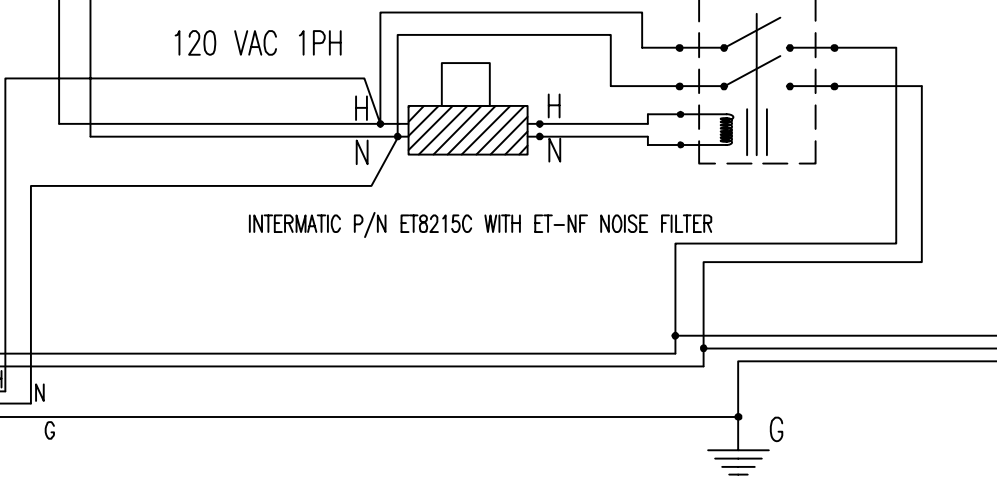
NOTE: THESE LIGHTS EXCEPT C-45 ARE ON AN LS-3 RATE METER.
C-41 THROUGH C-44 WILL BE PHOTOCELL CONTROLLED DUSK TO DAWN.
C-46 THROUGH C-56 WILL BE TIMER CONTROLLED SO THEY ARE OFF
FROM 2:00 AM - 5:30 AM.



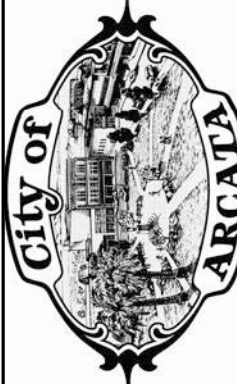
PG&E #4
<E>PG&E
UNDER-
GROUND
BOX
H N

WEST SIDE OF
ALLIANCE RD.
400 FT N.O.
17TH ST.

CONTACTOR - EATON C25BNB230A OR EQUIVALENT



SCHEMATIC FOR PG&E SERVICE POINT 4 - PATHWAY LIGHTING BETWEEN ALLIANCE RD. AND FOSTER AVE



PREPARED BY:
CITY OF ARCATA
ENGINEERING DEPARTMENT
ARCATA PUBLIC WORKS

[illegible]RAILS WITH TRAILS PHASE 1
ARCATA, CALIFORNIA

Date	03/07/14
Scale	NTS
Sheet No.	35 OF 36
File No.	E106

STREETLIGHT ELECTRICAL SCHEDULE																		
CIRCUIT ID	P&E BADGE #	SERVICE POINT #	CAD BLOCK ID	JUNCTION BOX	WIRE RUN FT	WIRE SIZE	CONDUIT SIZE IN	NEW POLE	LUMINAIRE	MFG PART NUMBER	VOLTAGE	WATTAGE	AMPS	LS-2	POLE TYPE	POLE HEIGHT	FOOTING	
C-1	A70501	PGE1	AA	J1	END	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-2	A70502	PGE1	AA	J2	91	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-3	A70503	PGE1	AA	J3	95	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-4	A70504	PGE1	AA	J4	93	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-5	A70505	PGE1	AA	J5	102	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-6	A70506	PGE1	AA	J6	89	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-7	A70507	PGE1	AA	J7	102	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-8	A70508	PGE1	AA	J8	85	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-9	A70509	PGE1	AA	J9	97	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-10	A70510	PGE1	AA	J10	101	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-11	A70511	PGE1	AA	J11	84	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-12	A70512	PGE1	AA	J12	104	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-13	A70513	PGE1	AA	J13	79	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-14	A723	EXISTING	CC	J14	76	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-15	A70514	PGE1	AA	J15	66	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-16	A70515	PGE1	AA	J16	82	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-17	A722	EXISTING	CC	J17, J18	177	N/A	2	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-18	A70516	PGE1	AA	J19	79	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-19	A70517	PGE1	AA	J20	90	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-20	A717	EXISTING	CC	N/A	END	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-21	A70518	PGE2	AA	J21	N/A	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-22	A70519	PGE2	AA	J22	86	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-23	A718	EXISTING	CC	N/A	N/A	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-24	A70520	PGE2	AA	J23	236	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-25	A70521	PGE2	AA	J24	88	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-26	A3296	EXISTING	CC	J25, J26	127	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-27	A70522	PGE2	AA	J27	95	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-28	A70523	PGE2	AA	J28	94	6	N/A	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-29	A70524	PGE2	AA	J29	88	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-30	A70525	PGE2	AA	J30	106	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-31	A70526	PGE2	AA	J31	95	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-32	A702	EXISTING	CC	N/A	END	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-33	A70527	PGE3	AA	J32	95	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-34	A70528	PGE3	AA	J33	100	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-35	A70529	PGE3	AA	J34	131	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-36	A701	EXISTING	CC	J35	127	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
N/A	N/A	PGE3	N/A	J36	150	6	2	NO	N/A	FEED FROM P&E SERVICE POINT 3	120	N/A	N/A	YES	N/A	N/A	N/A	
C-37	A70530	PGE3	AA	J37	136	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-38	A70531	PGE3	AA	J38	95	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-39	A70532	PGE3	AA	J39	96	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-40	A70533	PGE3	AA	J40	88	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	YES	STEEL	14.5'	YES	
C-41	A70534	PGE4	AA	J41	88	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-42	A70535	PGE4	AA	J42	94	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-43	A70536	PGE4	AA	J43	90	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-44	A70537	PGE4	AA	J44	94	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-45	A6357	EXISTING	CC	J45	89	N/A	N/A	NO	LEOTEK	GC1-60E-MV-NW-2-GY-FDC-700-WL	120	131.6	1.1	YES	WOOD	30'	NO	
C-46	A70538	PGE4	AA	J46	81	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-47	A70539	PGE4	AA	J47	94	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-48	A70540	PGE4	AA	J48	92	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-49	A70541	PGE4	AA	J49	92	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-50	A70542	PGE4	AA	J50	96	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-51	A70543	PGE4	AA	J51	94	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-52	A70544	PGE4	AA	J52	96	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-53	A70545	PGE4	AA	J53	94	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-54	A70546	PGE4	AA	J54	91	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-55	A70547	PGE4	AA	J55	95	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
C-56	A70548	PGE4	AA	J56	100	6	2	YES	LUMEC DOMUS	DOS-40W30LED4K-ES-LF2F-VOLT-DBA-1A-DSS3V-14.5-3/4X20-G-8 1/2-DEC-BKTX	120	41.82	0.35	NO	STEEL	14.5'	YES	
EXISTING CIRCUITS SHALL USE THE EXISTING CONDUIT, RISERS AND SUPPORTS. THEY ARE SHOWN ON THIS SET OF PLANS TO CLARIFY CHANGES TO LUMINAIRES, OVERALL PHOTOMETRICS, AND TO SHOW P&E SERVICE PLANNING WHAT CHANGES WILL BE NECESSARY FOR BILLING UPDATES.																		