

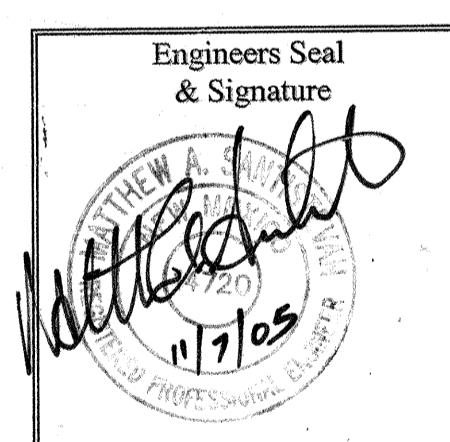
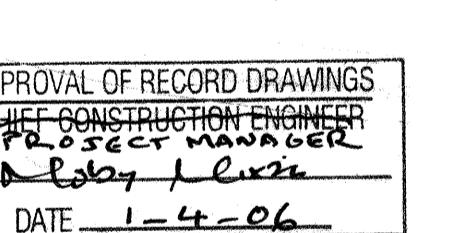
**CONSTRUCTION PLANS
FOR
ZOO / BIO PARK TRAIN
AND AQUATIC PARK SANITARY SEWER & WATER LINE
ALBUQUERQUE, NEW MEXICO**

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AQUATIC PARK SANITARY SEWER & WATER LINE (Addendum #1)

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CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Matthew A. Santistevan of the firm of Bohanan Huston, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as shown on these drawings (Zoo /BioPark Train and Aquatic Park Sanitary Sewer & Water) has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City of Albuquerque and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by the contractor, A.S. Horner, Inc. and their surveyor, Armijo Land Surveying, Inc., Lenore R. Armijo, NMPS #15511.

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE No. 7.

TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.

ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.

CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE IF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
 - SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
 - ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

* SHEETS 30, 31 AND 32 REPLACED WITH SHEETS 30A, 31A AND 32A.

30-JAN-2006 P:\040133 29-04-

Houston

Courtyard • 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

Sheet 1 Of 33

RECORD DRAWING

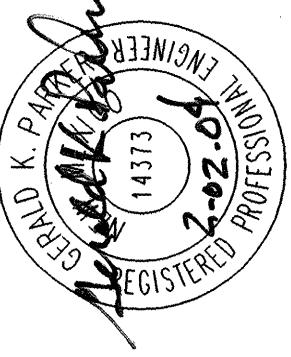
GENERAL NOTES

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
 2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTEINANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
 3. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
 4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
 5. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
 6. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
 7. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (i.e. BARRICADING, SURFACE DISTURBANCE).
 8. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
 9. ALL CURVE DATA AND DIMENSIONS FOR ROADWAY CONSTRUCTION REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 10. THE CONSTRUCTION TRAFFIC CONTROL PLAN FOR COA PROJECT 701291 WILL BE USED FOR THIS PROJECT. THE CONTRACTOR SHALL ADHERE TO THE GUIDELINES SPECIFIED THEREIN AND SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
 11. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
 12. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
 13. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK PRIOR TO PLACEMENT OF ADJACENT PAVING.
 14. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS AT HIS OWN EXPENSE.
 15. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXCAVATIONS AND TRENCHES IN A SAFE CONDITION THEREBY PROTECTING THE WORKERS AND THE GENERAL PUBLIC. ALL EXCAVATIONS, TRENCHING AND SHORING ACTIVITIES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) 29 CFR 1926.650, SUBPART P.
 17. FOR THE PURPOSE OF THIS PLAN SET "OWNER" MEANS THE CITY OF ALBUQUERQUE BIOLOGICAL PARK.

MRGCD GENERAL CONSTRUCTION NOTES

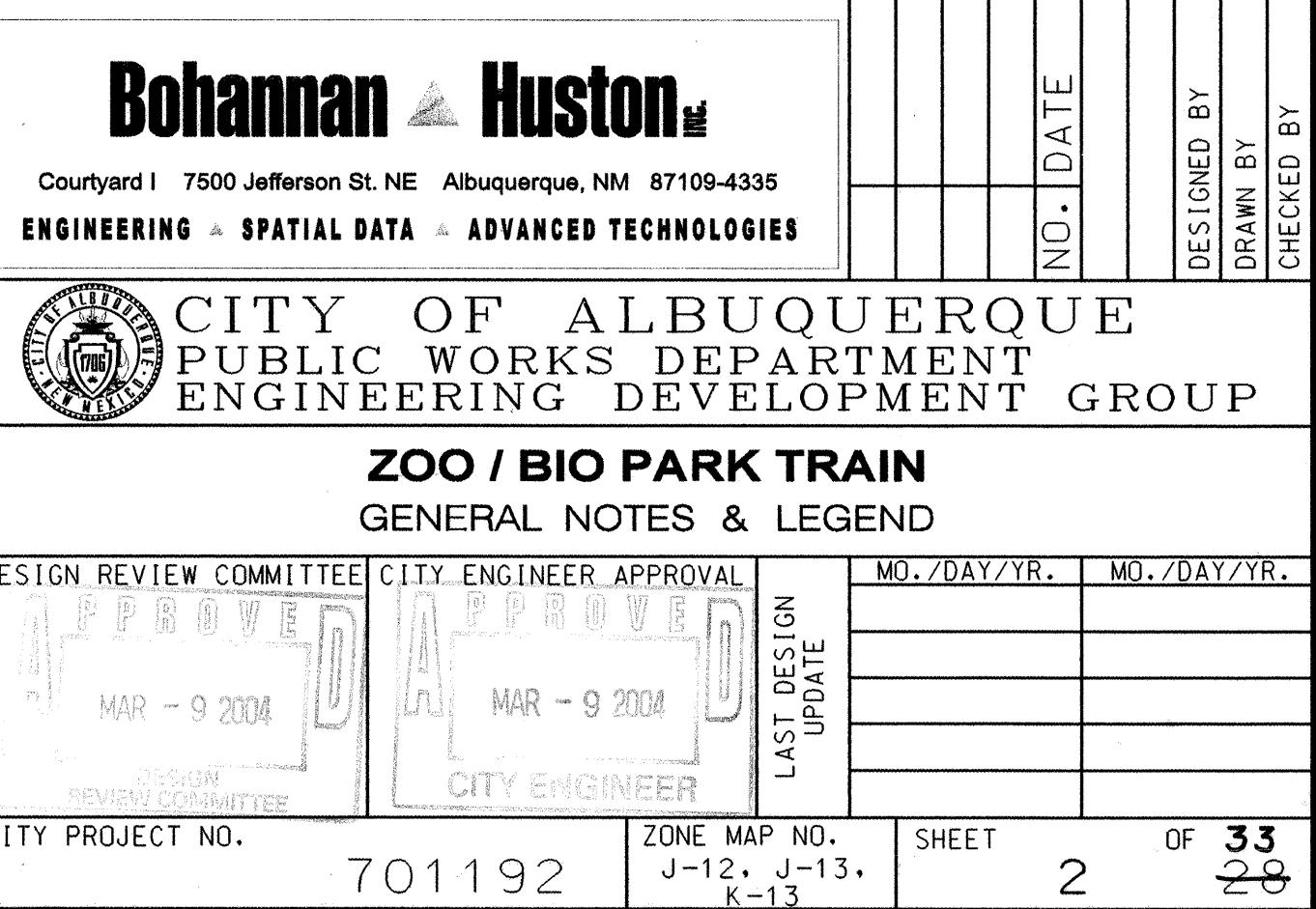
1. ANY WORK TO BE PERFORMED WITHIN THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (M.R.G.C.D.) RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH THE M.R.G.C.D. ENGINEERING DEPARTMENT AND APPROPRIATE FIELD OFFICE. PHONE: (505) 247-0234.
 2. NO WORK IS TO BE DONE ON FACILITIES OR STRUCTURES BELONGING TO, OR OPERATED BY, THE M.R.G.C.D. BETWEEN MARCH 1 AND OCTOBER 31 INCLUSIVE. HOWEVER, WORK MAY BE PERMITTED BY THE M.R.G.C.D. IF IT CAN BE SHOWN THAT THE WORK WILL NOT INTERFERE WITH OPERATIONS OF THE M.R.G.C.D. FACILITY. ALL WORK TO BE DONE WITHIN THE M.R.G.C.D. FACILITIES MUST BE APPROVED BY THE M.R.G.C.D. ENGINEER PRIOR TO COMMENCING WORK.
 3. THE CONTRACTOR SHALL NOT STORE EQUIPMENT, NEW MATERIALS OR DEBRIS WITHIN DISTRICT RIGHT-OF-WAY WHICH MAY INTERFERE WITH OPERATIONS AND MAINTENANCE OF THE M.R.G.C.D. FACILITY.
 4. THE CONTRACTOR SHALL NOT SERVICE VEHICLES OR EQUIPMENT WITHIN M.R.G.C.D. RIGHT-OF-WAY.
 5. SEEDING OF DISTURBED AREAS WITHIN M.R.G.C.D. RIGHT-OF-WAYS IS REQUIRED PER THE M.R.G.C.D. SEEDING SPECIFICATIONS.
 6. THE CONTRACTOR MUST MAINTAIN A MINIMUM COVER OF 3' OVER ALL CULVERT CROSSINGS USED FOR ACCESS TO THE PROJECT SITE.
 7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND/OR REPLACEMENT OF ANY STRUCTURES REMOVED AND/OR DAMAGED DUE TO THE CONTRACTOR'S ACTIVITIES WITHIN THE DISTRICT'S RIGHT-OF-WAY. SHOULD ANY TURNOUTS, CULVERT PIPES AND/OR STRUCTURES REQUIRE REPLACEMENT DUE TO LEAKAGE AND/OR DAMAGE BY THE CONTRACTOR, NEW TURNOUTS, AND NEW CULVERT PIPES AND/OR NEW STRUCTURES SHALL REPLACE THE DAMAGED ITEM. REPAIRS AND/OR REPLACEMENTS WITHIN THE DISTRICT'S RIGHT-OF-WAY MUST COMPLY WITH M.R.G.C.D. SPECIFICATIONS.
 8. ALL DAMAGED CULVERT CROSSINGS AND CULVERT CROSSINGS REMOVED AND/OR DISTURBED MUST BE RESTORED AND/OR REPLACED TO THE SATISFACTION OF THE M.R.G.C.D. AND COMPLY WITH M.R.G.C.D. SPECIFICATIONS.
 9. ALL SALVAGEABLE CULVERTS, IRRIGATION GATES, ETC., MUST BE RETURNED TO THE M.R.G.C.D.
 10. THE CONTRACTOR IS RESPONSIBLE FOR EXECUTING A "SPECIAL USE LICENSE AGREEMENT" WITH THE M.R.G.C.D. PRIOR TO CONSTRUCTION.

LEGEND

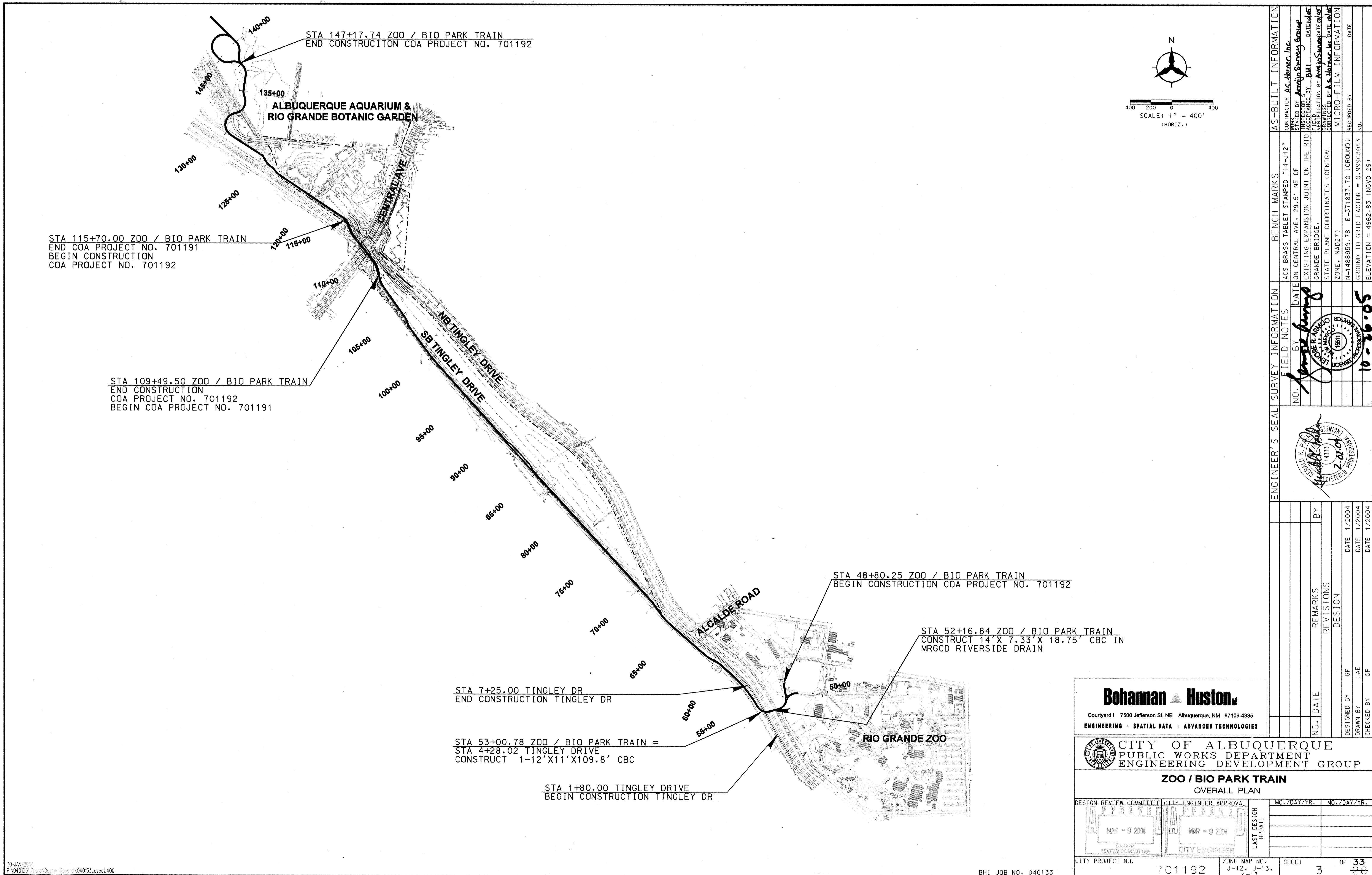
△65 4958.60 X 4946.6	BHI HORIZONTAL & VERTICAL PANEL POINT	PAVED PARKING	GUARDRAIL	AS-
-6405-	SPOT ELEVATION	GRADED PARKING	POST/BOLLARD	
-6400-	INDEX CONTOUR	FOOT PATH	TREE & TREE OUTLINE WITH TRUNK LOCATION	
-6400-	INTERMEDIATE CONTOUR	BRIDGE WITH DECK ELEVATION	PINE TREE	
-6400-	DEPRESSION INDEX CONTOUR	SPEED BUMP	BUSH/SHRUB	
-6400-	DEPRESSION INTERMEDIATE CONTOUR	INTERMITTENT STREAM	FIRE HYDRANT	
-6400-	OBSCURED AREA	PERENNIAL POND WITH WATER LEVEL ELEVATION	WATER METER	
-6400-	BUILDING WITH PORCH/DECK	PERENNIAL STREAM	WATER VALVE	
CONC.	CONCRETE PAD	CULVERT	IRRIGATION BOX	
RAMP	RIP-RAP	GAS VALVE		
STEPS	CURB & DROP INLET	PULLBOX		
SWIMMING POOL	UNLINED DITCH	TRANSFORMER		
TANK	CONCRETE DRAINAGE STRUCTURE	DISTRIBUTION LINE & POLE		
DIRT/DEBRIS PILE	SOLID STRIPE	DOWN GUY WIRE & ANCHOR		
TEES & GREENS	DOUBLE STRIPE	STREET LIGHT		
SAND	DASHED STRIPE	POST LIGHT		
LANDSCAPED AREA	HANDICAP PARKING SPACE	TRAFFIC CONTROL BOX		
SIDEWALK	PARKING BUMPER	TRAFFIC SIGNAL		
CURB	SINGLE, DOUBLE POST SIGNS, & BILLBOARD	SATELLITE DISH		
GUTTER	MASONRY WALL	PIPELINE		
PAVED ROAD	RETAINING WALL	UNIDENTIFIED FEATURE		
MISC. ASPHALT EDGE	ROCK WALL	UNIDENTIFIED VALVE		
GRADED ROAD	CHAINLINK FENCE WITH GATE	UNIDENTIFIED MANHOLE		
UNGRADED ROAD	RAIL FENCE	UNIDENTIFIED POLE		
UNGRADED SHOULDER	BARBWIRE FENCE	UNIDENTIFIED UTILITY		
  				
NO. 14373 BY JAMES R. JOHNSON DATE 1/2004 SURVEY INFORMATION FIELD NOTES ACS BRASS TABLET STAMPED "14-J12" ON CENTRAL AVE, 29.5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE. STATE PLANE COORDINATES (CENTRAL) ZONE, NAD27 N=1488959.78 E=371837.70 (GROUND) GROUND TO GRID FACTOR = 0.99968083 NO. ELEVATION = 4962.83 (NGVD 29)				

UTILITY COMPANY CONTACTS

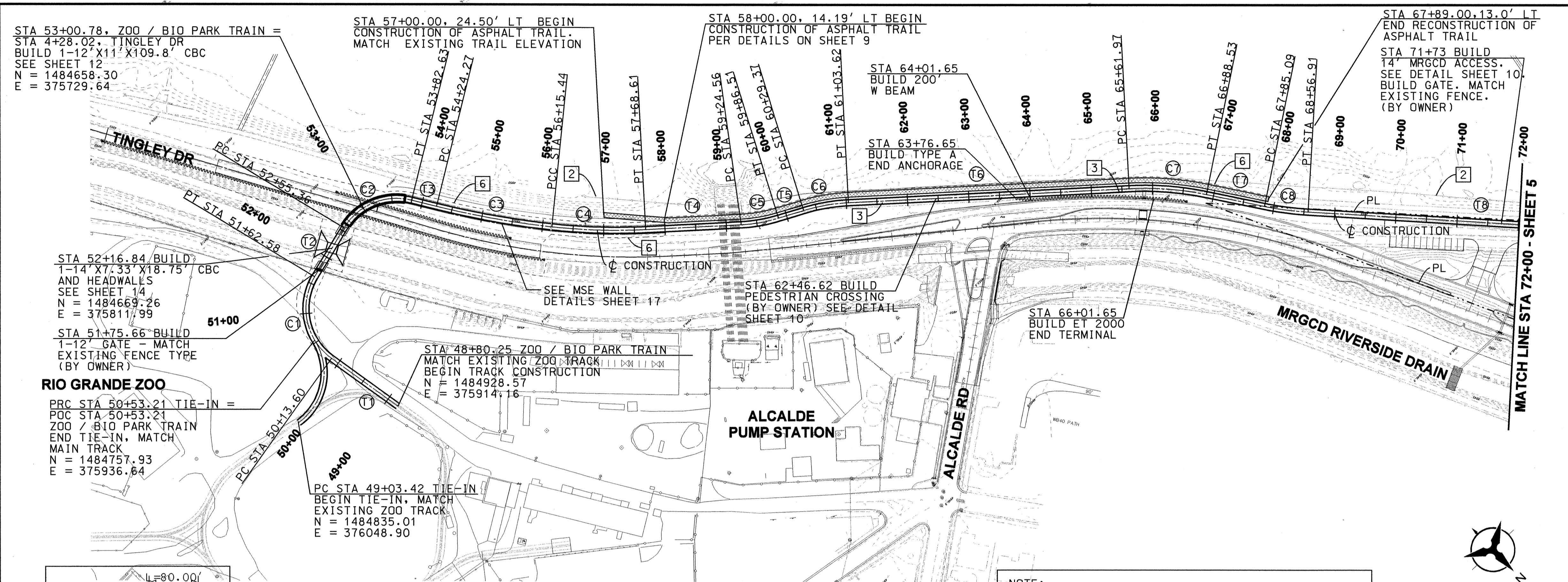
<u>ELECTRIC</u> PNM ELECTRIC SERVICES (DISTRIBUTION) ALBUQUERQUE, NM PHONE: 241-3403 CONTACT: RICK MONTOYA	<u>TELEPHONE</u> QWEST COMMUNICATIONS ALBUQUERQUE, NM PHONE: 245-6586 CONTACT: MARK KANTZ	<u>NATURAL GAS</u> PNM GAS SERVICES ALBUQUERQUE, NM PHONE: 241-7753 CONTACT: JOE DUNLAP
<u>CABLE TV</u> COMCAST CABLE COMMUNICATIONS ALBUQUERQUE, NM PHONE: 761-6252 CONTACT: MIKE MORTUS	AT&T ALBUQUERQUE, NM PHONE: 362-2743 CONTACT: AMOS WILSON	CITY OF ALBUQUERQUE PRINCIPAL ENGINEER ALBUQUERQUE, NM PHONE: 768-2729 CONTACT: GREG OLSON



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MESA REPRO



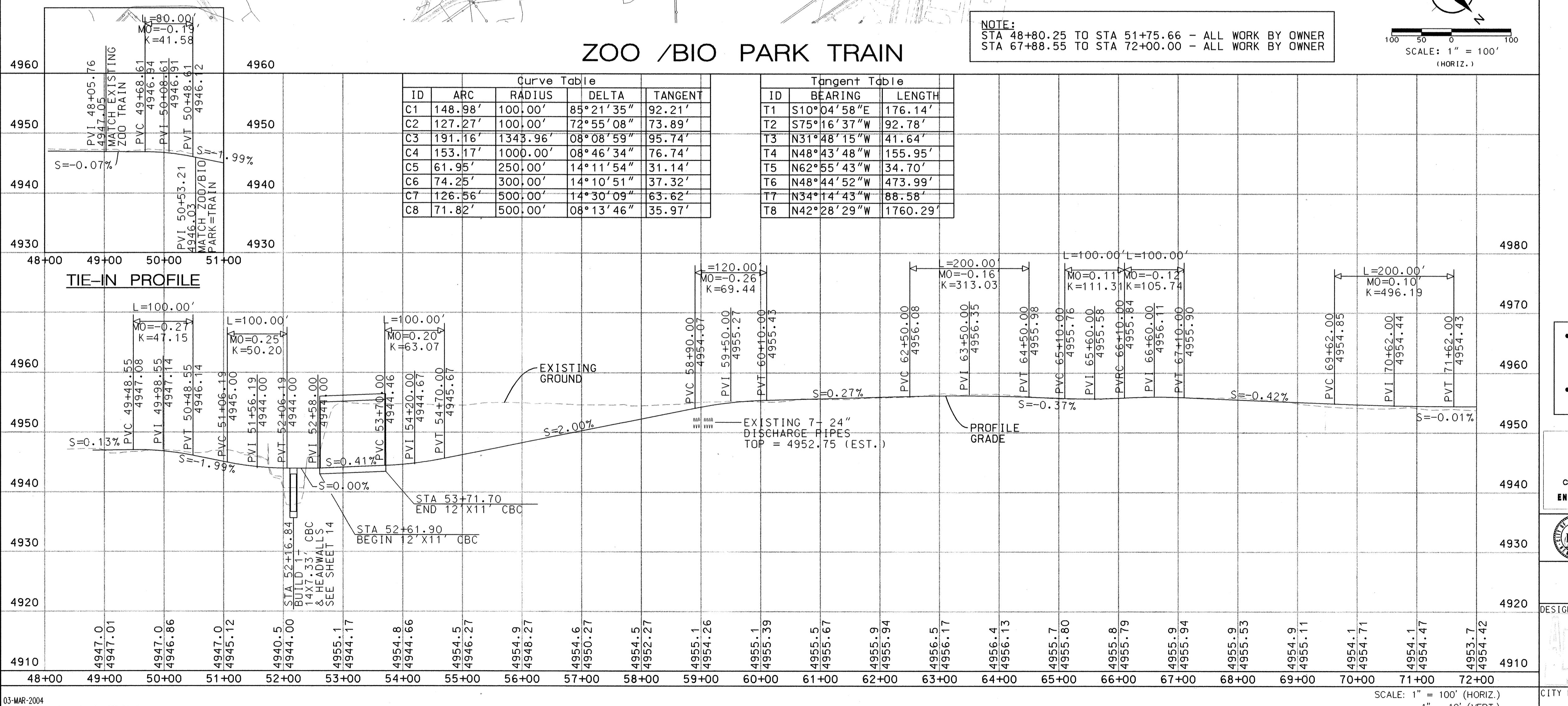
RECORD DRAWING

**KEYED NOTES**

- 1 REMOVE EXISTING PAVEMENT
- 2 EXISTING FENCE TO REMAIN
- 3 REMOVE EXISTING ASPHALT TRAIL
- 4 ADJUST LEVEE TOE DRAIN RISER TO GRADE (BY OTHERS)
- 5 SAWCUT EXISTING PAVEMENT
- 6 NATIVE GRASS SEEDING PER SECTION 1012

NOTES

1. CONSTRUCT METAL BARRIER & END ANCHORS PER COA STD DWGS 2610, 2615, 2620, 2625, 2626, & 2631.
2. TRAFFIC TO BE DETOURED DURING CONSTRUCTION AS DETAILED IN COA PROJECT NO. 701291.
3. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY MULTI-USE TRAIL DURING CONSTRUCTION AS NEEDED IN ACCORDANCE WITH SECTION 1200.
4. TRACK SWITCH GEOMETRY, LOCATION, AND TYPE TO BE DETERMINED BY OWNER



- TINGLEY DRIVE IMPROVEMENTS NORTH OF ZOO / BIO PARK TRAIN STA 59+00 CONSTRUCTED WITH COA PROJECT NO. 701291
- IMPROVEMENTS TO TINGLEY PONDS & WETLANDS CONSTRUCTED BY OTHERS

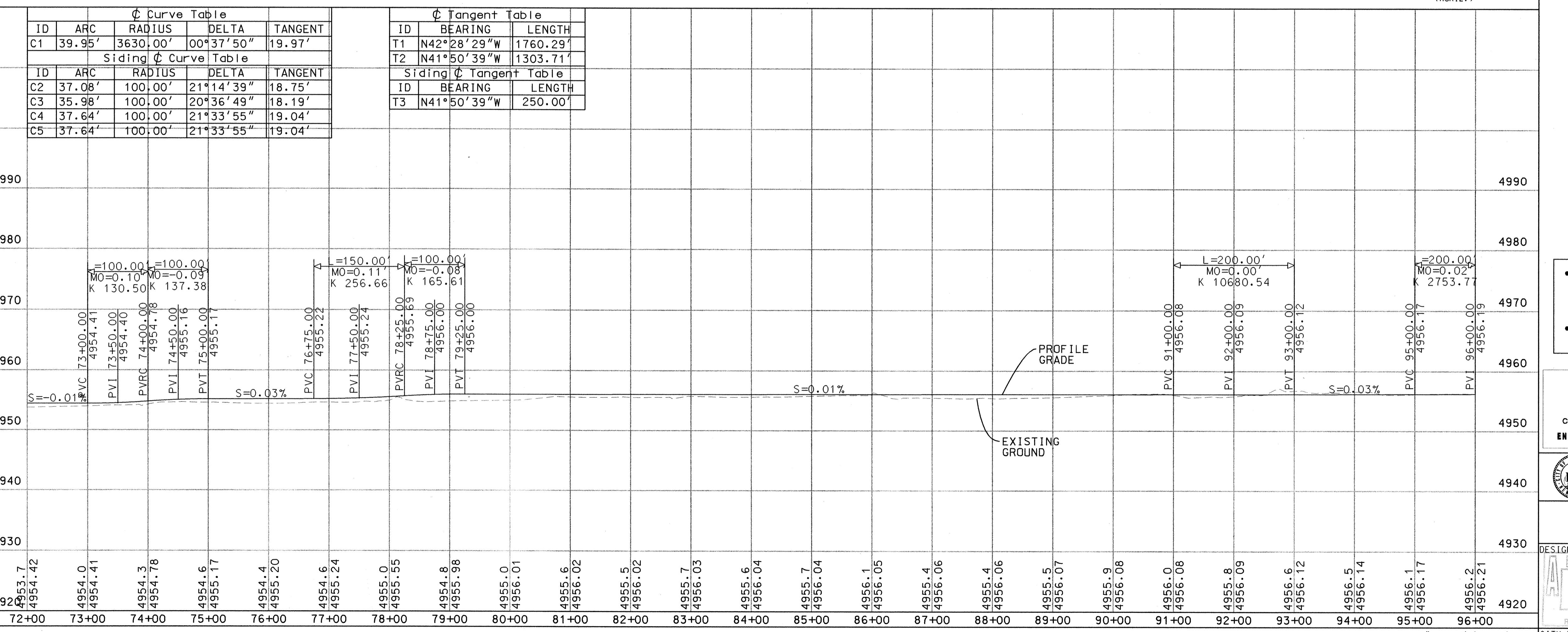
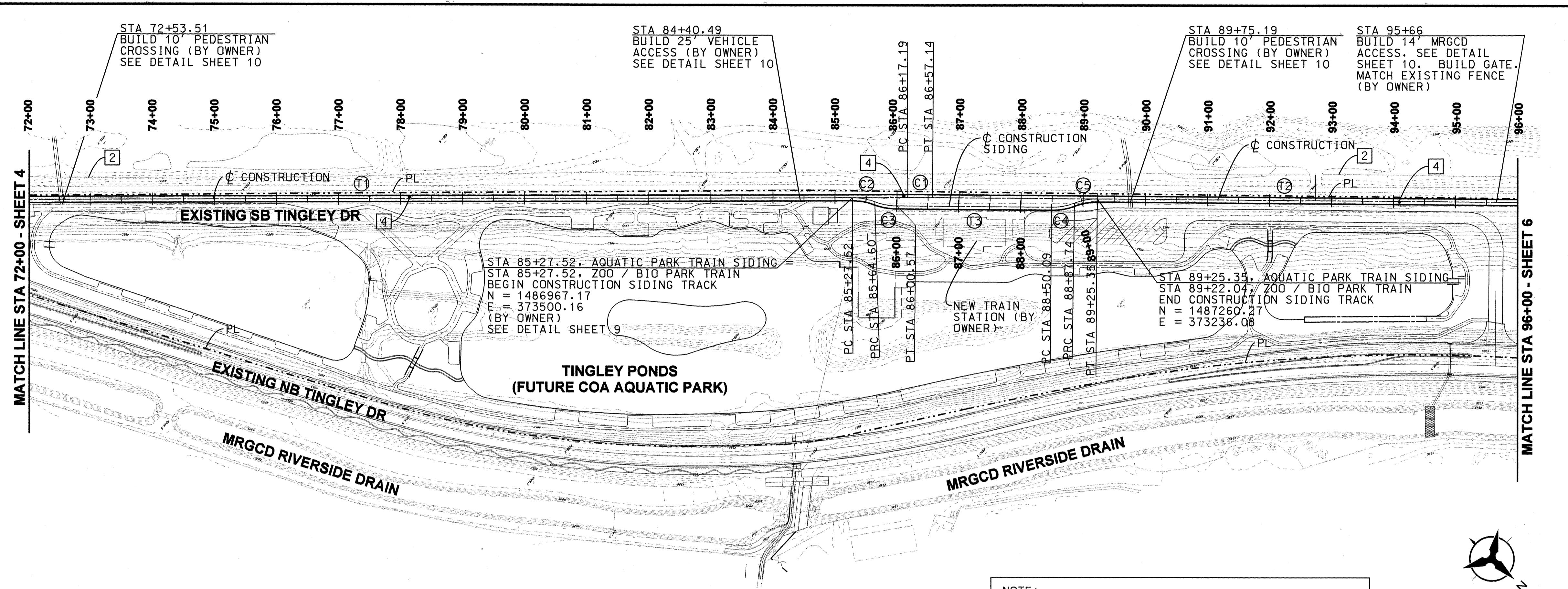
Bohanan Huston
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ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

ZOO / BIO PARK TRAIN
TRACK ALIGNMENT PLAN & PROFILE
BOP TO STA 72+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED MAR - 9 2004	APPROVED MAR - 9 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

LAST DESIGN UPDATE
CITY PROJECT NO. 701192 ZONE MAP NO. J-12, J-13, K-13 SHEET 4 OF 33

**KEYED NOTES**

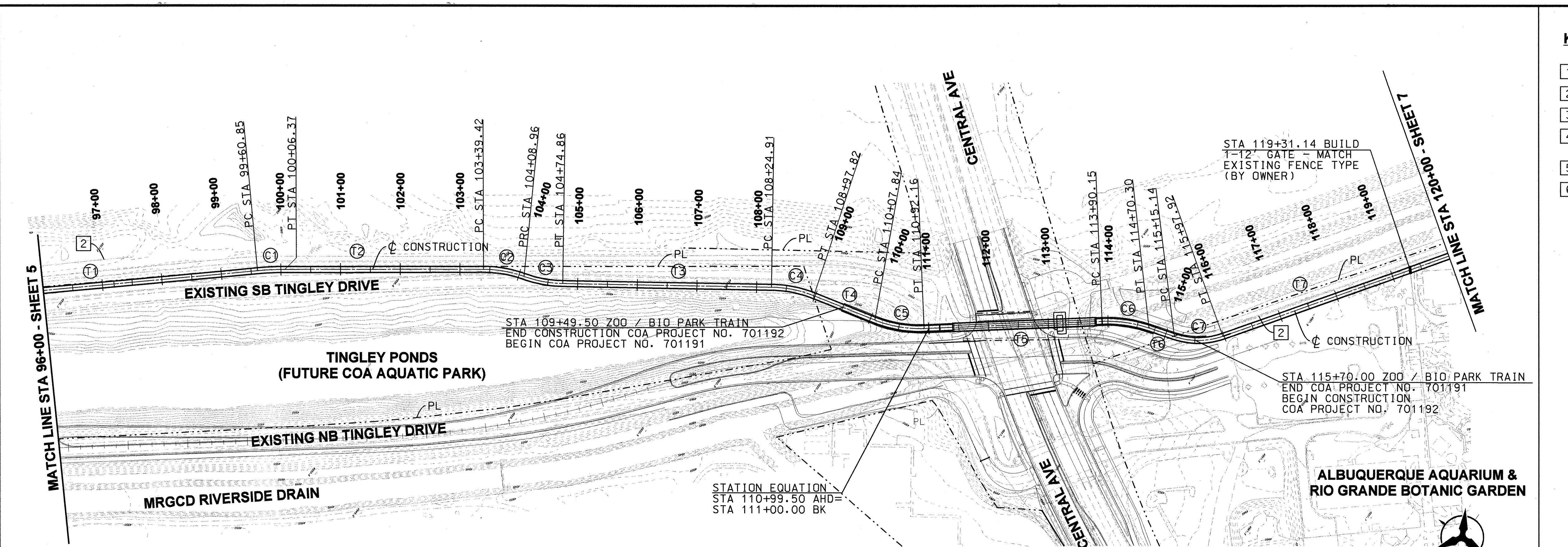
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NOTES

1. TRACK SWITCH GEOMETRY, LOCATION, AND TYPE TO BE DETERMINED BY OWNER

NIC

ENGINEER'S SEAL SURVEY INFORMATION		BENCH MARKS	
FIELD NOTES		AS-BUILT INFORMATION	
NO.	BY	DATE ON CENTRAL AVE.	WORKED BY
K. PARKER, PE, SGT		29-5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	SUPERVISOR'S ACCEPTANCE BY
4990	John H. Parker, PE, SGT	ZONE: NAD27	DATE:
4980		N=148-8359-78 E=27-1831-70 (GROUND)	FIELD CHECK BY
4970		GROUND TO GRID FACTOR = 0.99568083 NO.	CREATED BY
4960		ELEVATION = 4362-83 (NGVD 29)	MICRO-FILM INFORMATION
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2580			
2570			
2560			
2550			
2540			



NIC

FIELD NOTES		BENCH MARKS AS-BUILT INFORMATION	
NO.	DATE	ACB BRASS TABLET STAMPED "14-J12"	WORK PERFORMED BY CONTRACTOR
BY [Signature]		ON CENTRAL AVE., 29.5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	INSPECTOR'S DATE
REMARKS		FIELD OBSERVATION BY DRAWINGS	DATE
DESIGN		STATE PLANE COORDINATES (CENTRAL BRIDGE)	DATE
DRAWN BY LAE		ZONE : NAD27	MICROFILM INFORMATION
CHECKED BY GP		N=488359.78 E=371837.70 (GROUND)	RECORDED BY
		GROUND TO GRID FACTOR = 0.99968083 NO.	DATE
		ELEVATION = 4962.83 (NGVD 29)	

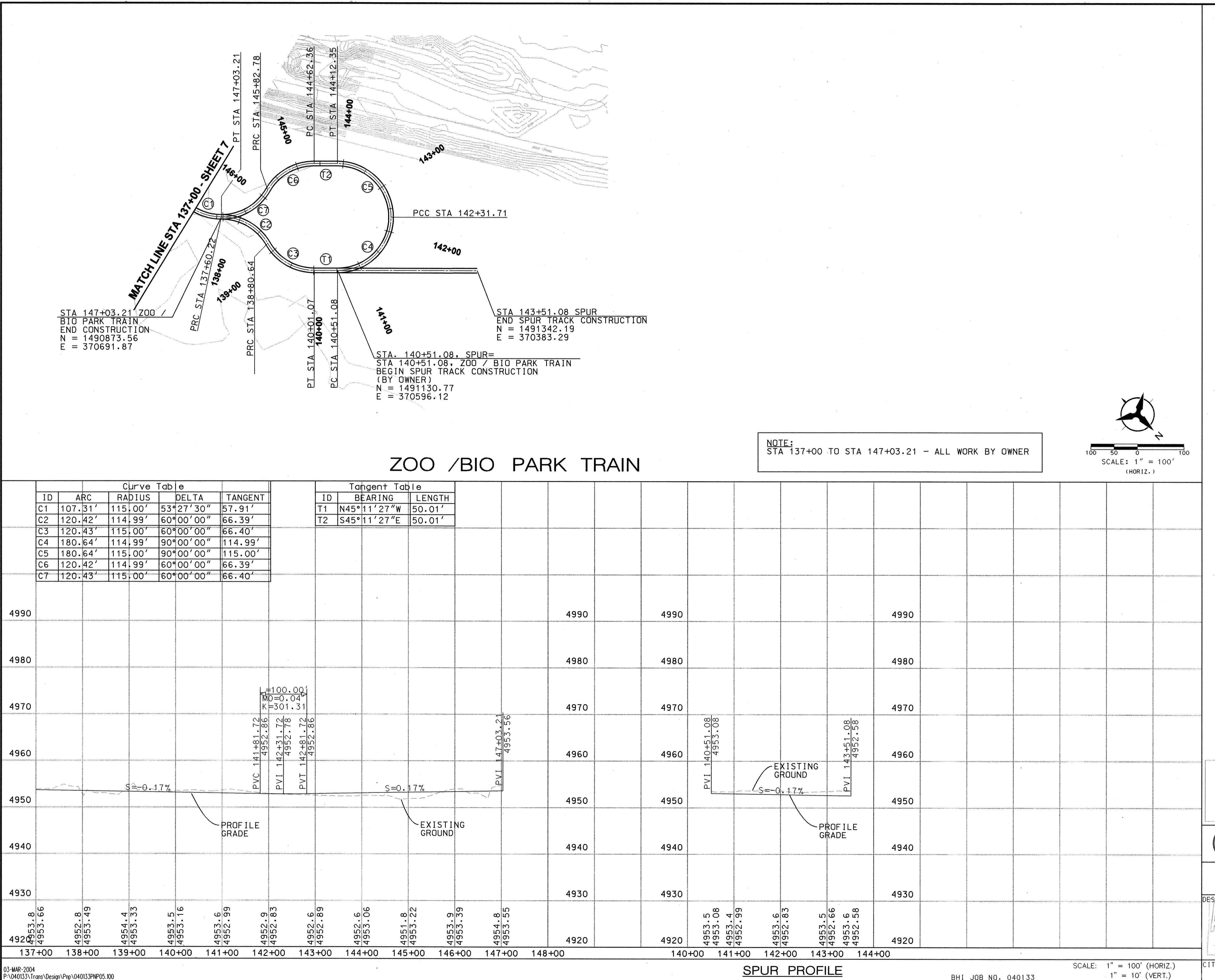


• TINGLEY DRIVE IMPROVEMENTS
NORTH OF ZOO / BIO PARK TRAIN
STA 59+00 CONSTRUCTED WITH
COA PROJECT NO. 701291

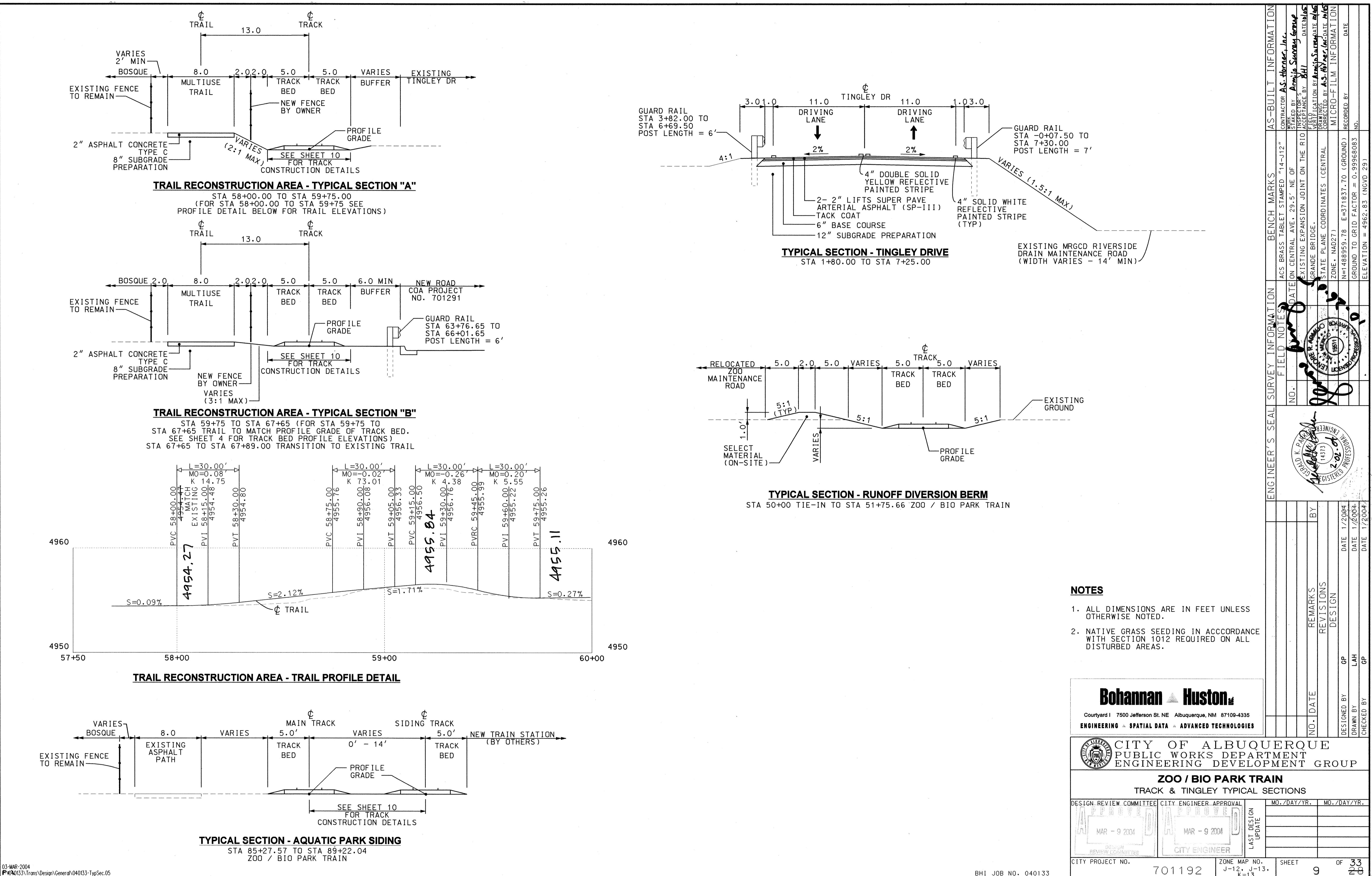
• IMPROVEMENTS TO TINGLEY PONDS &
WETLANDS CONSTRUCTED BY OTHERS

• TINGLEY DRIVE/CENTRAL AVENUE
INTERSECTION IMPROVEMENTS
CONSTRUCTED WITH COA PROJECT
NO. 701191

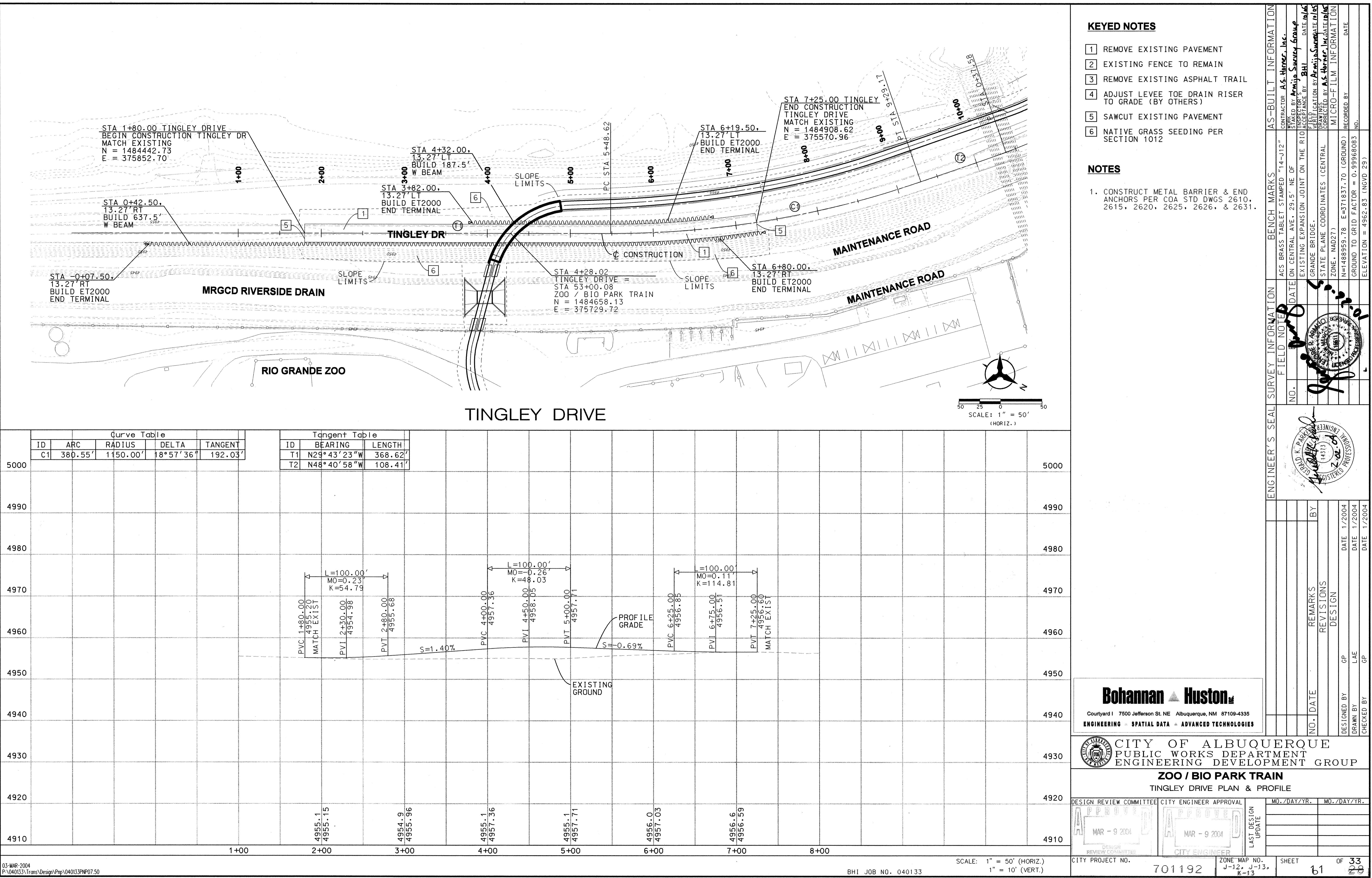
Bohannan Huston



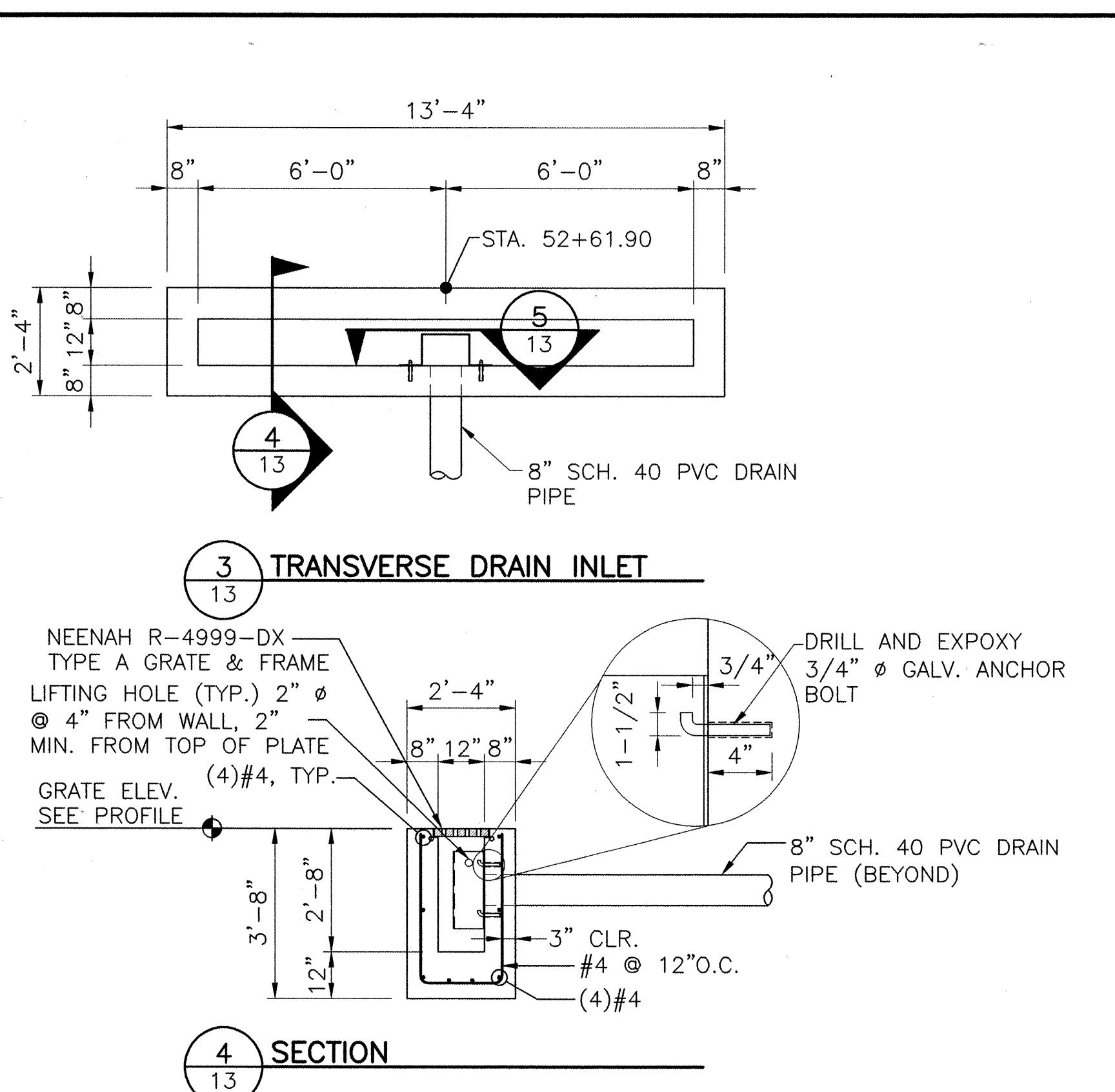
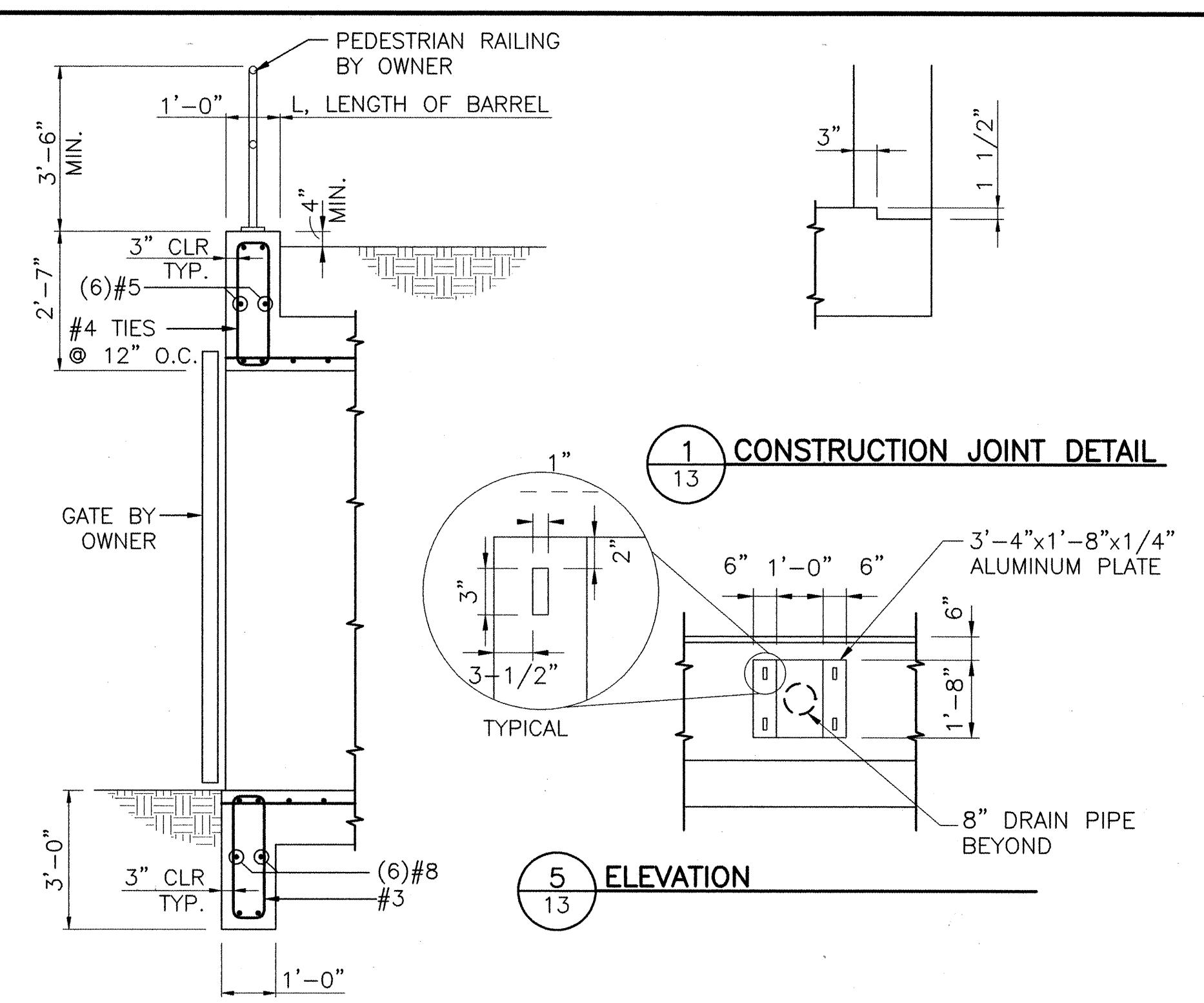
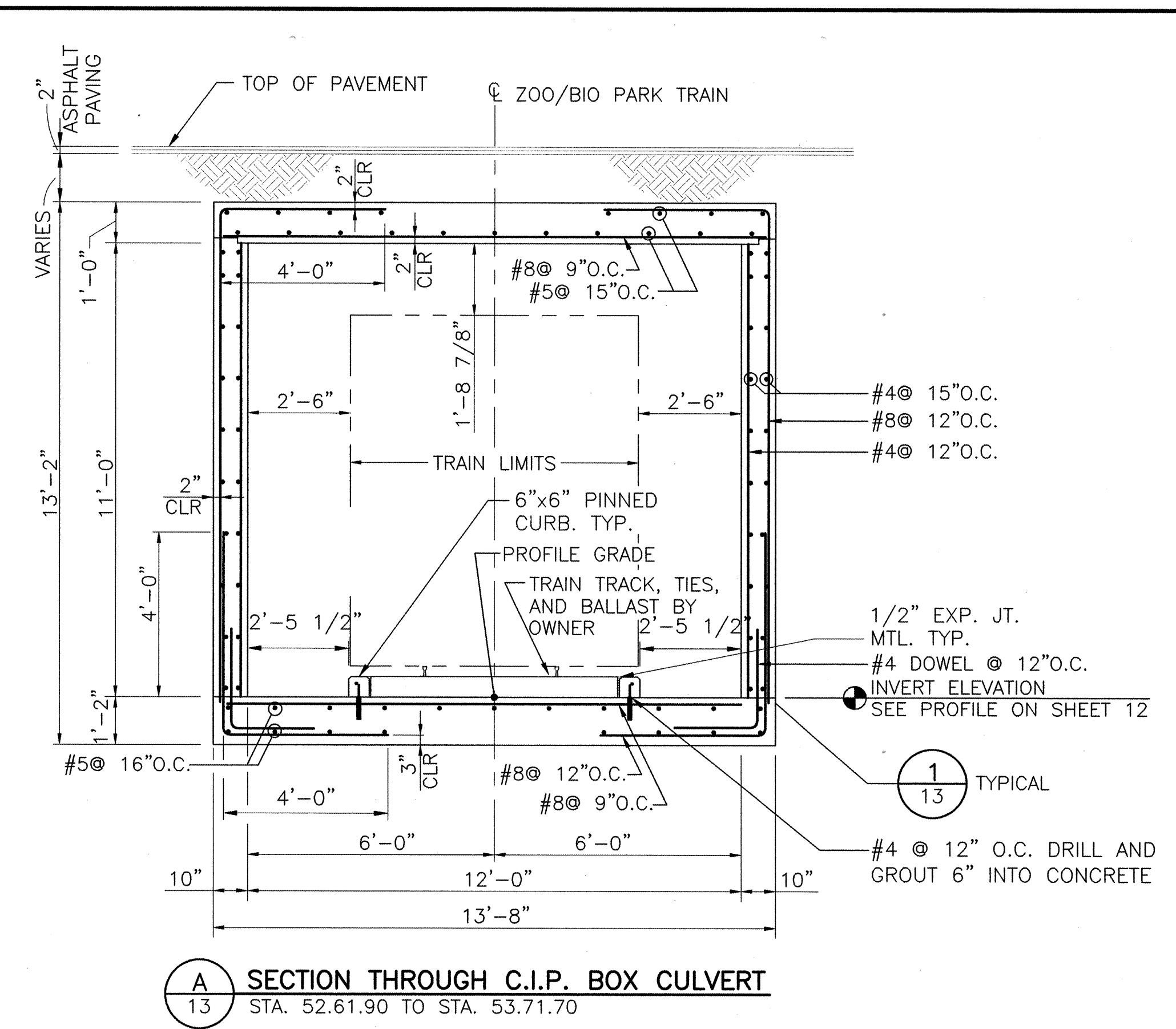
KEYED NOTES					
1	REMOVE EXISTING PAVEMENT				
2	EXISTING FENCE TO REMAIN				
3	REMOVE EXISTING ASPHALT TRAIL				
4	ADJUST LEVEE TOE DRAIN RISER TO GRADE (BY OTHERS)				
5	SAWCUT EXISTING PAVEMENT				
6	NATIVE GRASS SEEDING PER SECTION 1012				
NOTES					
<ul style="list-style-type: none"> • TRACK SWITCH GEOMETRY, LOCATION, AND TYPE TO BE DETERMINED BY OWNER 					
SURVEY INFORMATION					
ENGINEER'S SEAL		BENCH MARKS		AS-BUILT INFORMATION	
NO.	FIELD NOTES	ACS BRASS TABLET STAMPED "14-J12"	WORK STAKED BY	CONTRACTOR	DATE
		ON CENTRAL AVE, 29.5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.			
		STATE PLANE COORDINATES (CENTRAL ZONE, NAD27)			
		N=1488959.78 E=371837.70 (GROUND)			
		GROUND TO GRID FACTOR = 0.99968083			
		NO. ELEVATION = 4962.83 (NGVD 29)			
REVIEW COMMITTEE CITY ENGINEER APPROVAL					
APPROVED MAR - 9 2004	APPROVED MAR - 9 2004	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.	
DESIGN REVIEW COMMITTEE	CITY ENGINEER				
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP					
ZOO / BIO PARK TRAIN TRACK ALIGNMENT PLAN & PROFILE STA 137+00 TO EOP					
REVIEW COMMITTEE APPROVED MAR - 9 2004	CITY ENGINEER APPROVAL MAR - 9 2004	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.	
PROJECT NO. 701192	ZONE MAP NO. J-12, J-13, K-13	SHEET 8	OF 33	NO 33	OF 33
Bohannan Huston, Inc. Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335 ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES					
 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP					
ZOO / BIO PARK TRAIN TRACK ALIGNMENT PLAN & PROFILE STA 137+00 TO EOP					
APPROVED MAR - 9 2004					
APPROVED MAR - 9 2004					
CITY ENGINEER					
					



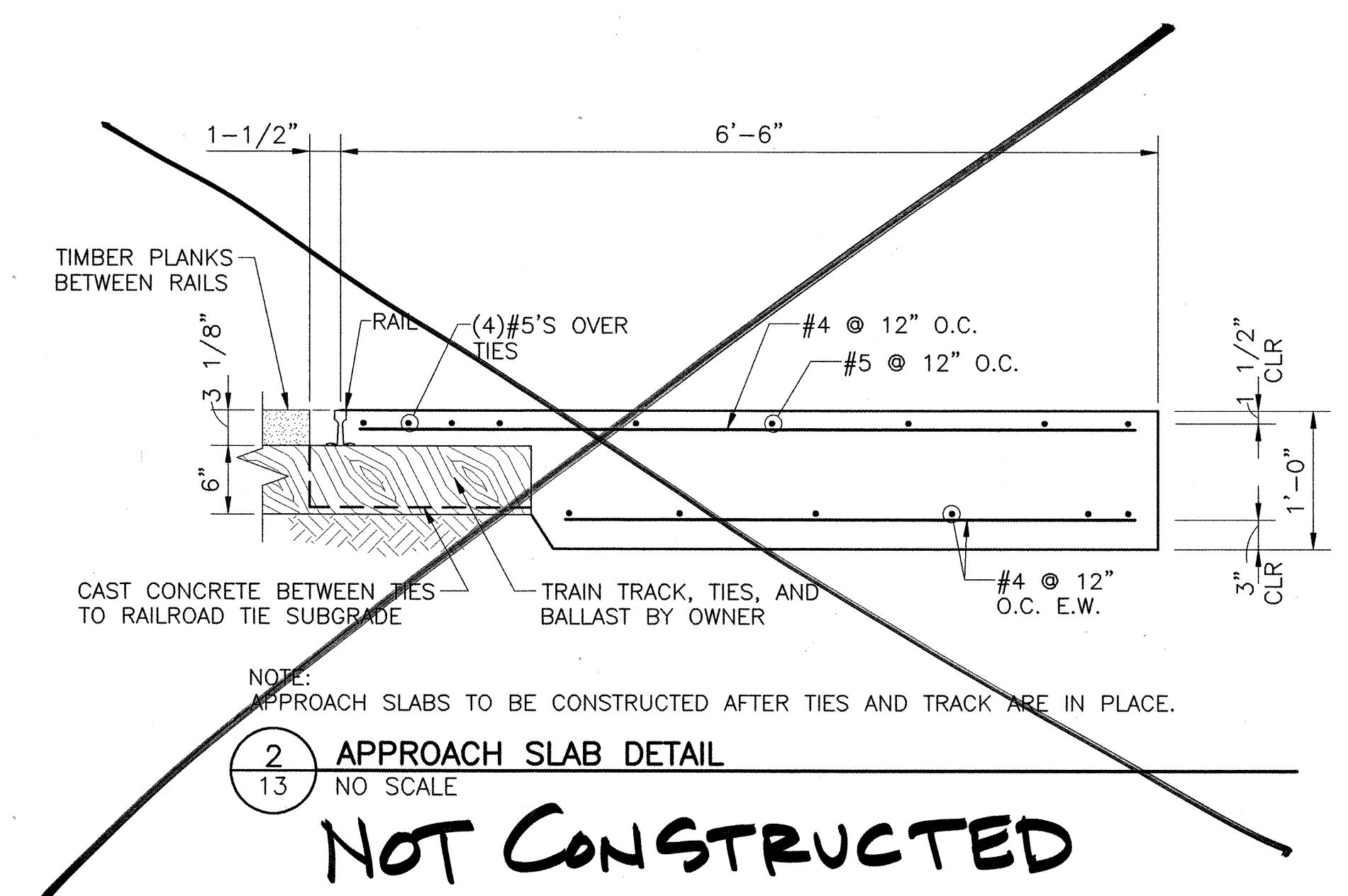
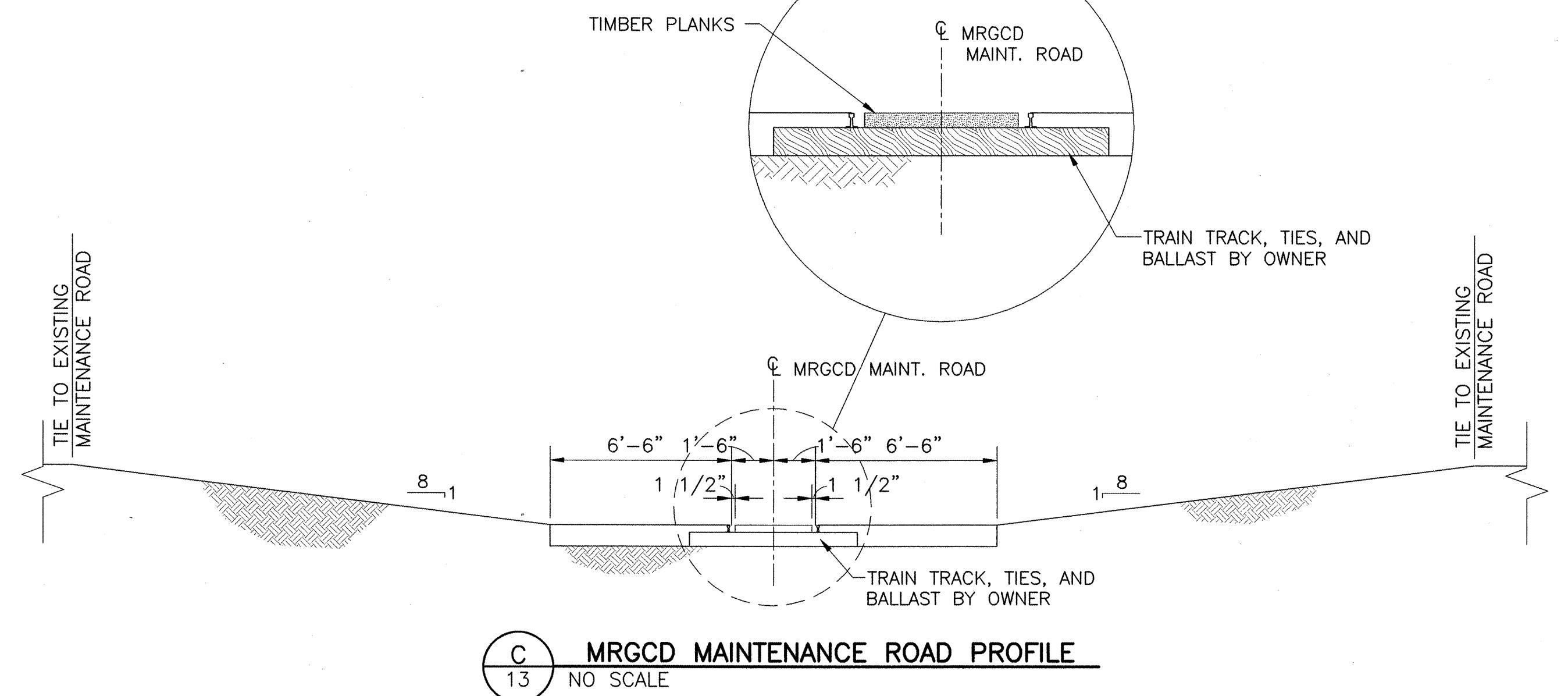
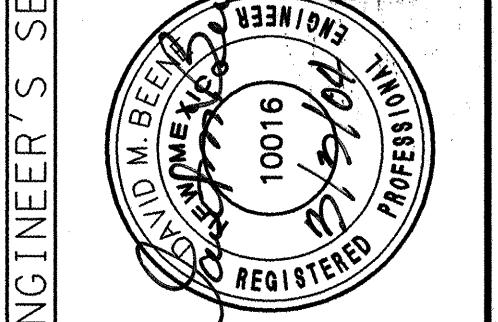
RECORD DRAWING



RECORD DRAWING

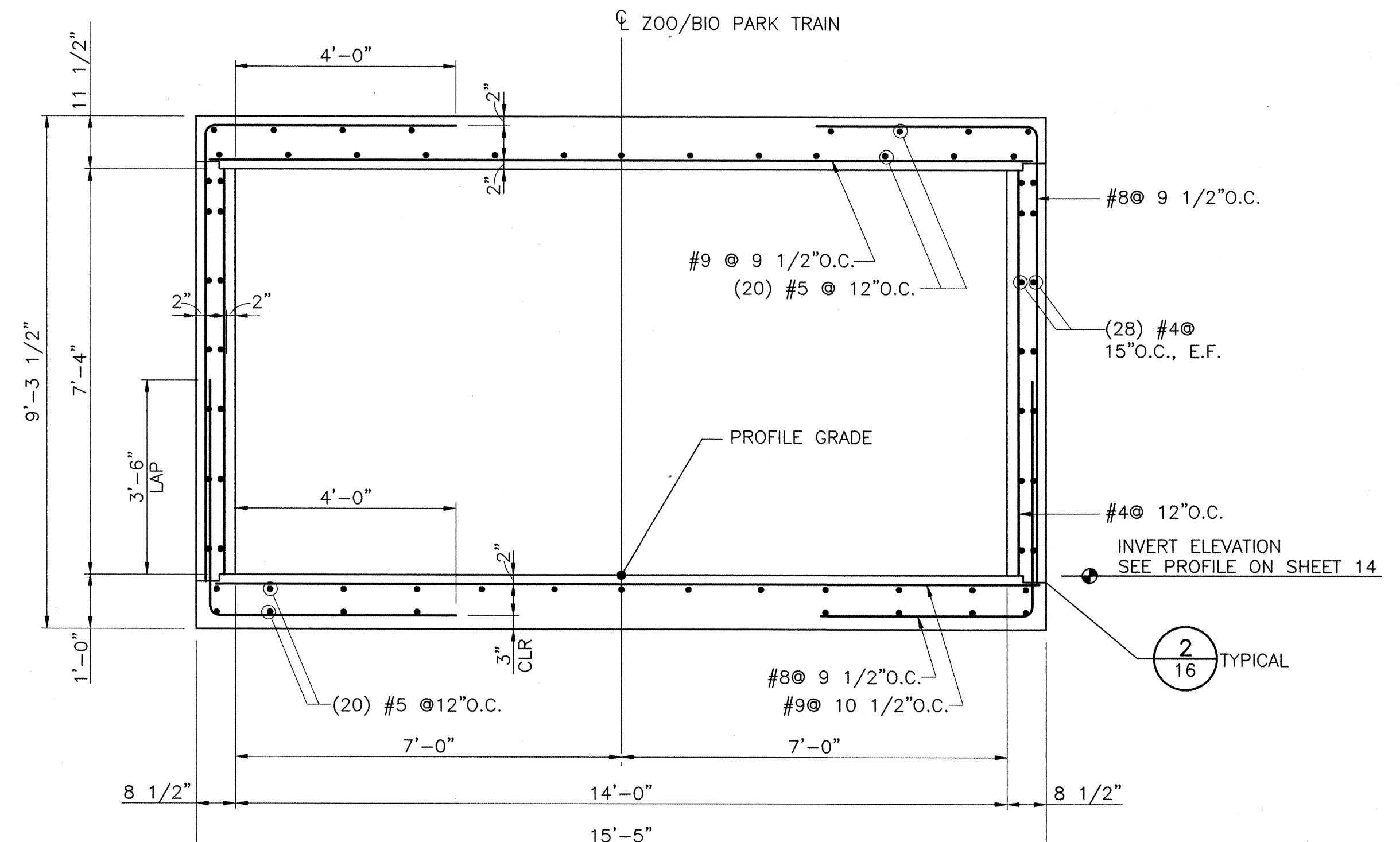


AS-BUILT INFORMATION	
CONTRACTOR AS-Horner Inc.	
STAKED BY Almijo Survey Group	
INSPECTOR BY B.H.U.	
DATE DRAWN 3/10/04	
DRAWING BY AMJ SURVEY GROUP	
MICRO-FILM INFORMATION	
NO. B-13	DATE ON CENTRAL AVE., 29-5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.
STATE PLANE COORDINATES (CENTRAL N=188159.78 E=71837.70)	GROUND TO GRID FACTOR = 0.99368083 NO. ELEVATION = 4962.83 (NGVD 29)

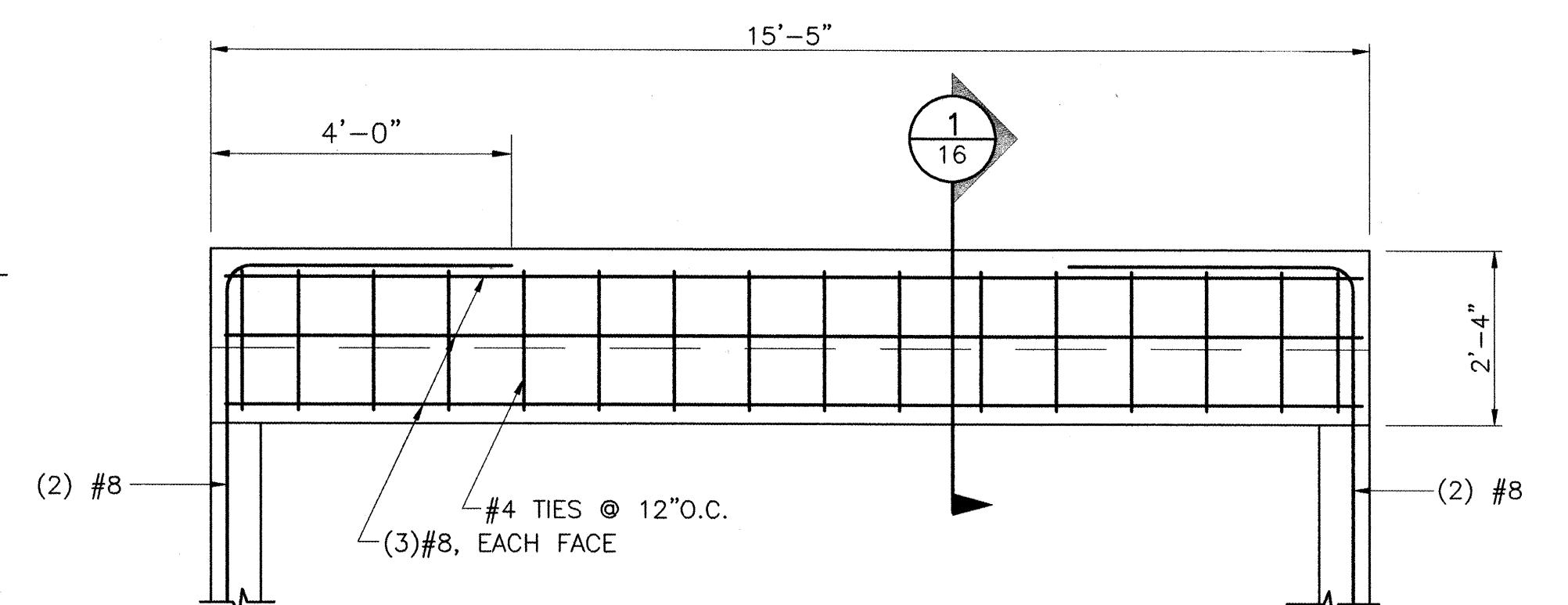


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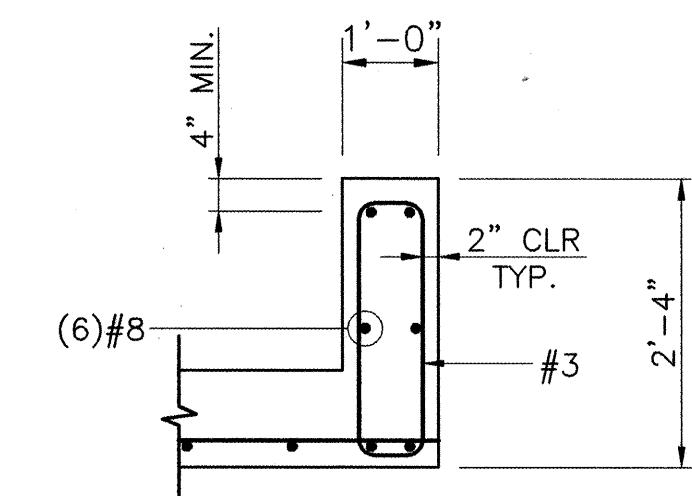
ENGINEER'S SEAL SURVEY INFORMATION	
FIELD NOTES	
BENCH MARKS	
ACS BRASS TABLET STAMPED "4-12"	
ON CENTRAL AVE., 29-5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	
STATE PLANE COORDINATES (CENTRAL N=188159.78 E=71837.70)	
GROUND TO GRID FACTOR = 0.99368083 NO. ELEVATION = 4962.83 (NGVD 29)	
NO. B-13	DATE 3/10/04
REVISIONS	BY
REMARKS	DESIGN
NO. DATE	REVIEW
REVIEWED BY JPL	APPROVED BY MAG
DESIGNED BY JPL	DRAWN BY MAG
CHECKED BY DNB	LAST DESIGN UPDATE
Bohannan Huston	
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335	
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
ZOO / BIO PARK TRAIN	
TRAIN CROSSING CAST-IN-PLACE STRUCTURE AND SECTIONS	
DESIGN REVIEW COMMITTEE APPROVED MAR - 9 2004	CITY ENGINEER APPROVAL APPROVED MAR - 9 2004
CITY PROJECT NO. 6978.01 ZONE MAP NO. J-12, J-13, J-14 SHEET 13 OF 33	



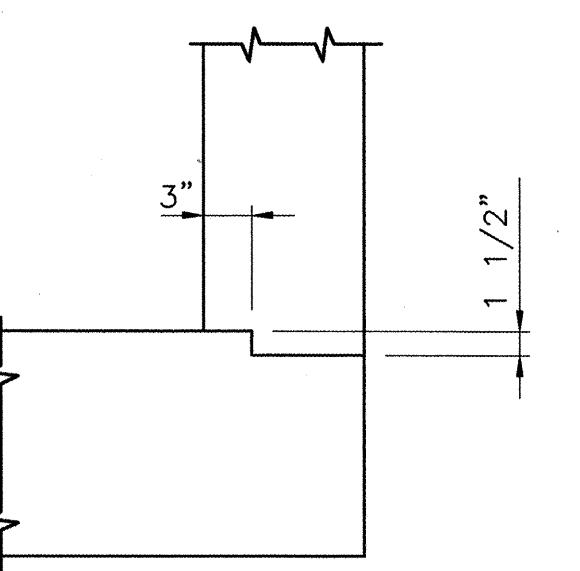
CBC TRANSVERSE SECTION



CBC PARAPET ELEVATION



PARAPET SECTION



CONSTRUCTION JOINT DETAIL

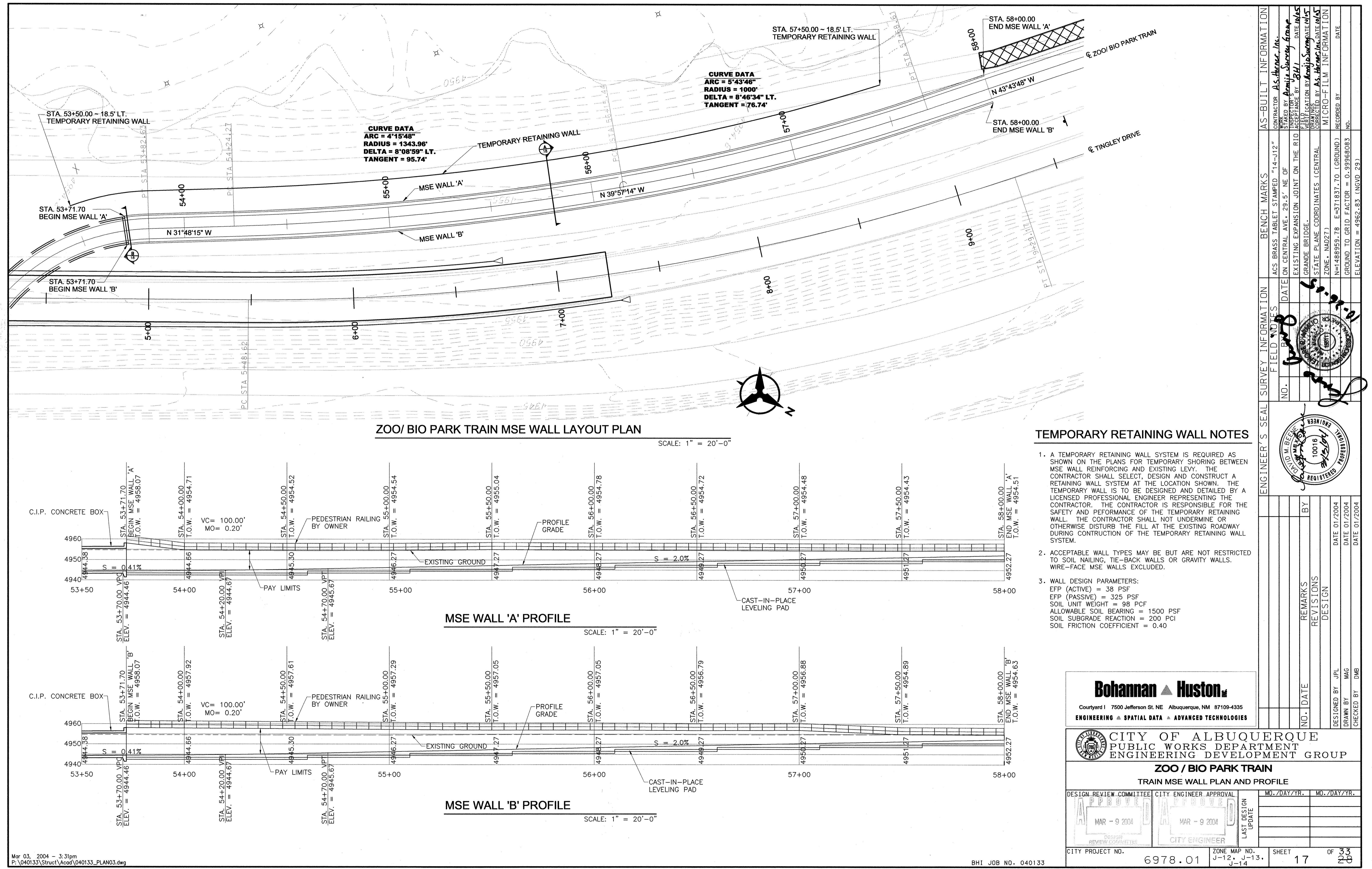
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES		ACS BRASS TABLE STAMPED "14-J12"		CONTRACTOR AS Horner, Inc.	
NO.	BY	DATE	ON CENTRAL AVE., 29° 5' NE OF	STAKED BY	ARMED SURVEY GROUP	ACCEPTANCE BY	DATED 15
16	JPL	MAR - 9 2004	EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	ARMED SURVEY GROUP	ARMED SURVEY GROUP	ARMED SURVEY GROUP	RECORDING BY AS Horner, Inc.
REGISTERED PROFESSIONAL ENGINEER		STATE PLANE COORDINATES (CENTRAL ZONE, NAD27) N=488959.78 E=371937.70 (GROUND)		MICROFILM INFORMATION		DRAWN TO GRID FACTOR = 0.9998083	
NO. DATE	REMARKS	DESIGN	REVISIONS	DESIGN	REVISIONS	RECORDING	DATE
DESIGNED BY JPL		DATE 01/2004	REVIEWED BY MAG	DATE 01/2004	CHECKED BY DIB	DATE 01/2004	DATE 01/2004

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COURTYARD I 7500 JEFFERSON ST. NE ALBUQUERQUE, NM 87109-4335
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

ZOO / BIO PARK TRAIN
TRAIN CROSSING
CBC STRUCTURE SECTIONS

DESIGN REVIEW COMMITTEE APPROVED	CITY ENGINEER APPROVAL	MO./DAY/YR.
MAR - 9 2004		
REVIEW COMMITTEE APPROVED		LAST DESIGN UPDATE
MAR - 9 2004		
CITY ENGINEER APPROVAL		MO./DAY/YR.
CITY PROJECT NO. 6978.01		ZONE MAP NO. J-12, J-13, J-14
		SHEET 16 OF 33



Mar 03, 2004 - 3:31pm
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BHI JOB NO. 040133

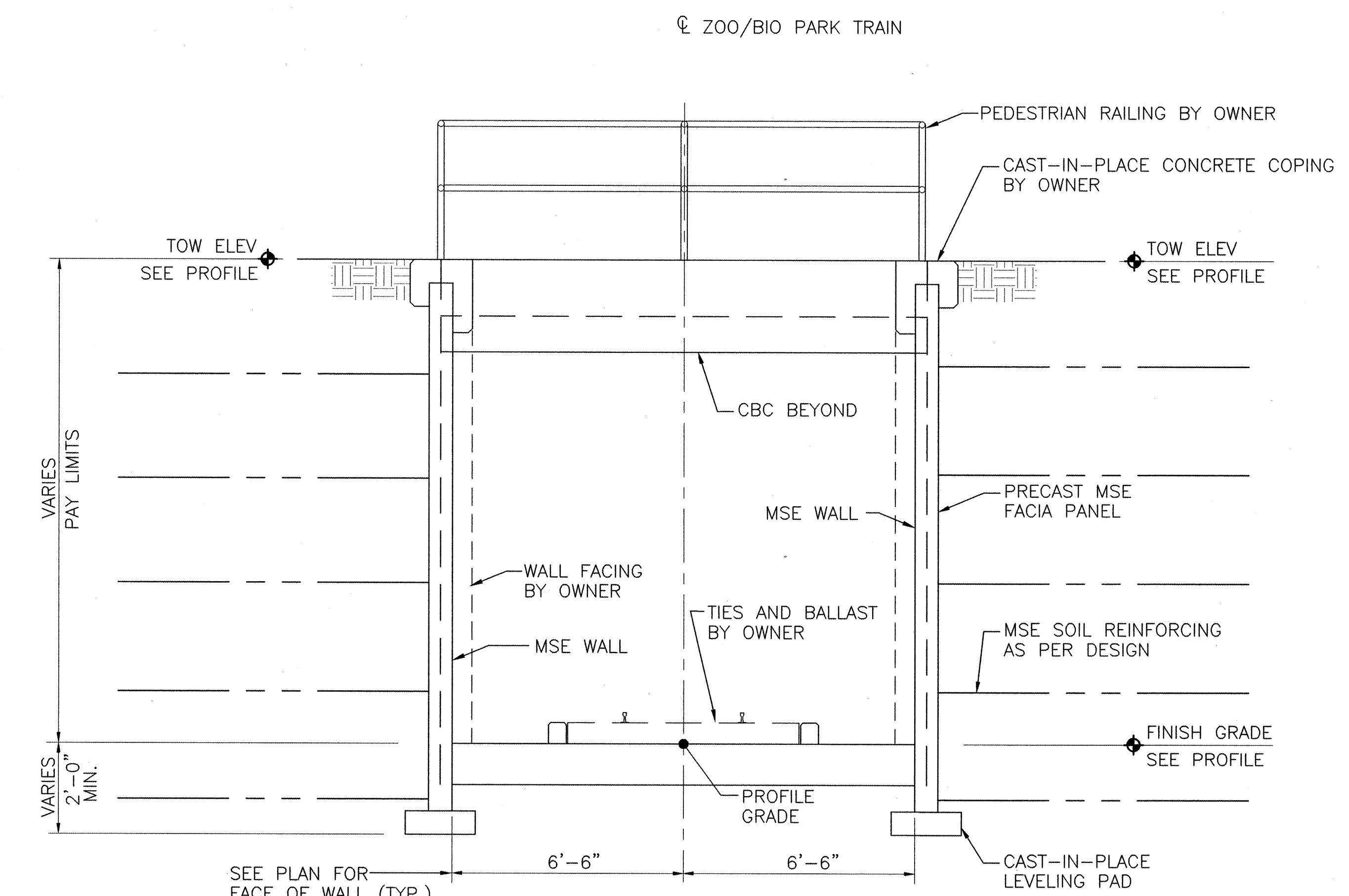
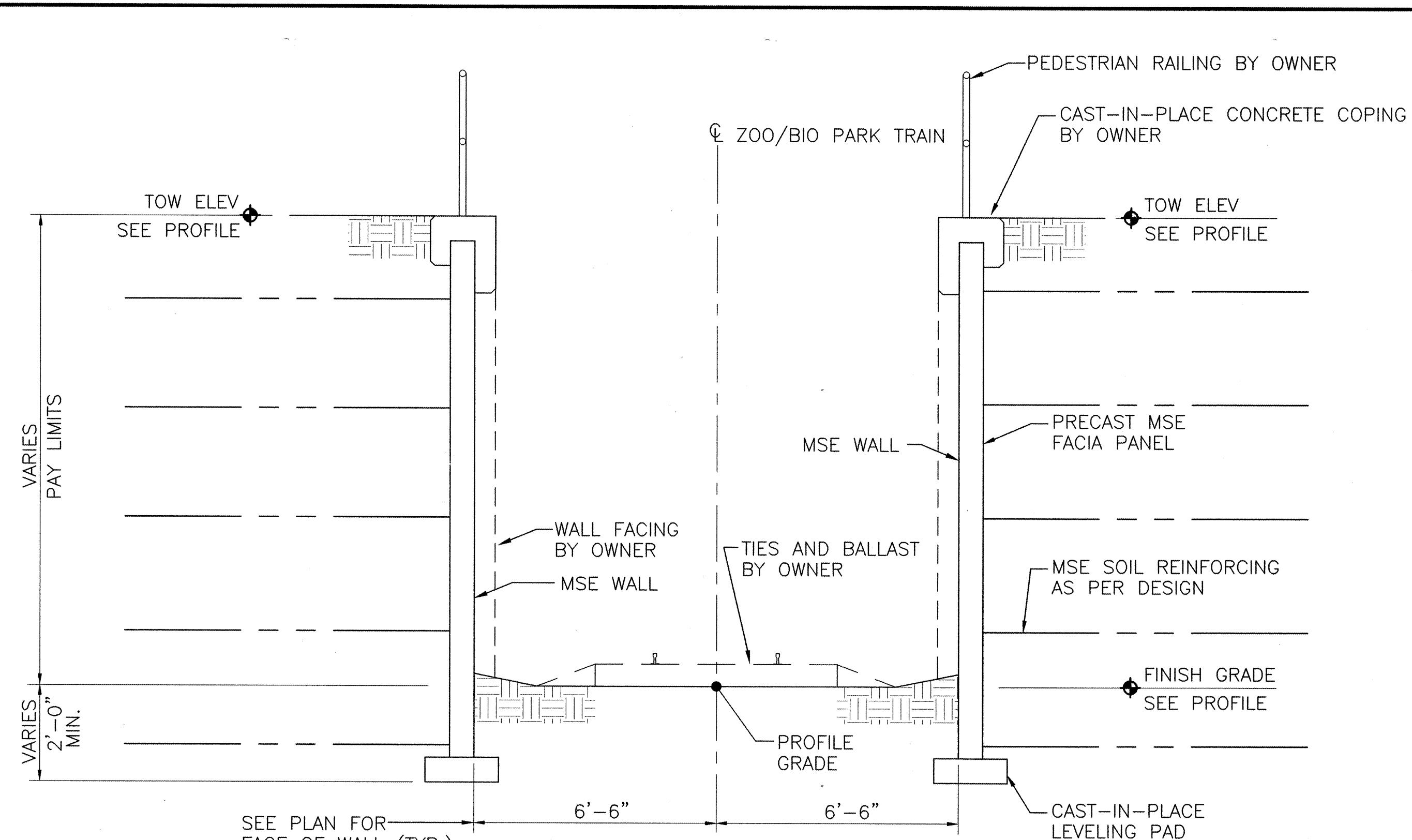
6978.01

-12, J-13,
J-14

17

28

RECORD DRAWING

**MSE WALL NOTES**

1. EARTH RETAINING WALLS, MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF STS 512 - MECHANICALLY STABILIZED EARTH RETAINING STRUCTURES. ALL PORTIONS OF THE MSE WALL WILL BE DESIGNED BY THE WALL FABRICATOR. ANY DETAILS SHOWN ARE FOR INFORMATION ONLY. CONTRACTOR SHALL SELECT EARTH RETAINING WALLS BY THE QUALIFIED PRODUCTS LIST SHOWN ON THIS SHEET.

2. STRUCTURAL BACKFILL MATERIAL. STRUCTURAL BACKFILL MATERIAL WITHIN THE REINFORCED EARTH ZONE IS INCIDENTAL TO MSE WALLS AND NO ADDITIONAL PAYMENT IS MADE THEREFOR. FOR PURPOSE OF COMPUTING EARTHWORK THE WIDTH OF THE REINFORCED EARTH ZONE IS ASSUMED TO BE EQUAL TO 0.7 TIMES THE RETAINED HEIGHT OR 8 FEET, WHICHEVER IS LARGER, AND IS NOT INCLUDED IN THE ESTIMATED ROADWAY EARTHWORK.

MSE WALL DESIGN DATA

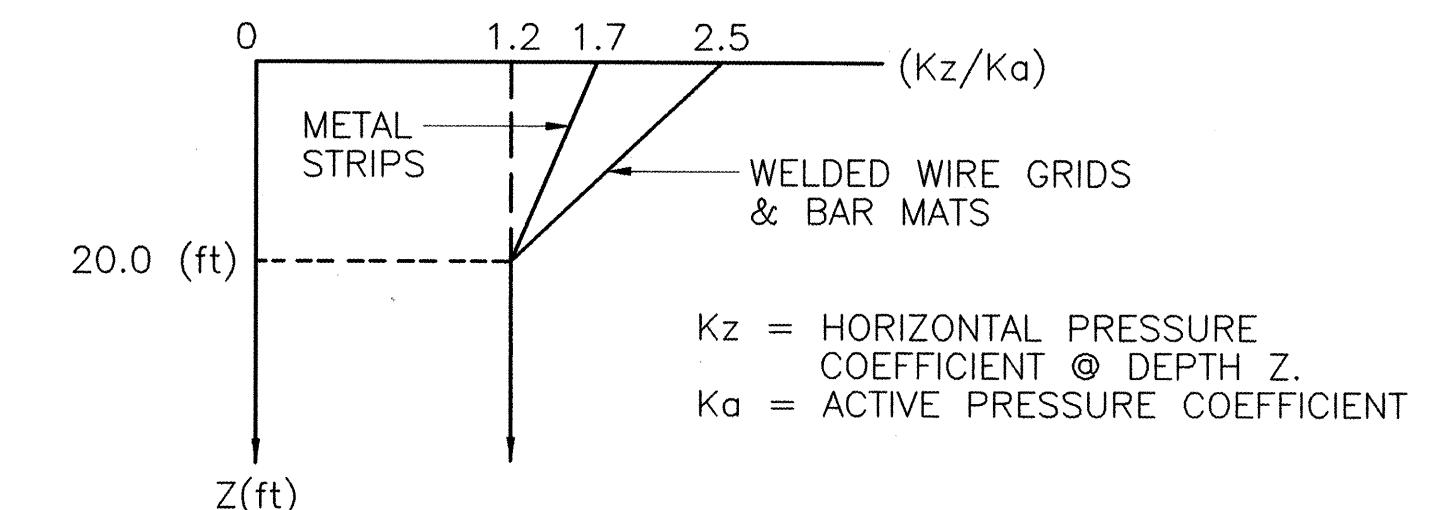
1. DESIGN IN ACCORDANCE WITH AASHTO SPECIFICATIONS 1996 AND CURRENT INTERIMS.

THE MSE WALL DESIGN SHALL MEET THE FOLLOWING EXTERNAL STABILITY REQUIREMENTS:
- 1500 PSF MAXIMUM ALLOWABLE BEARING PRESSURE AT WALLS.

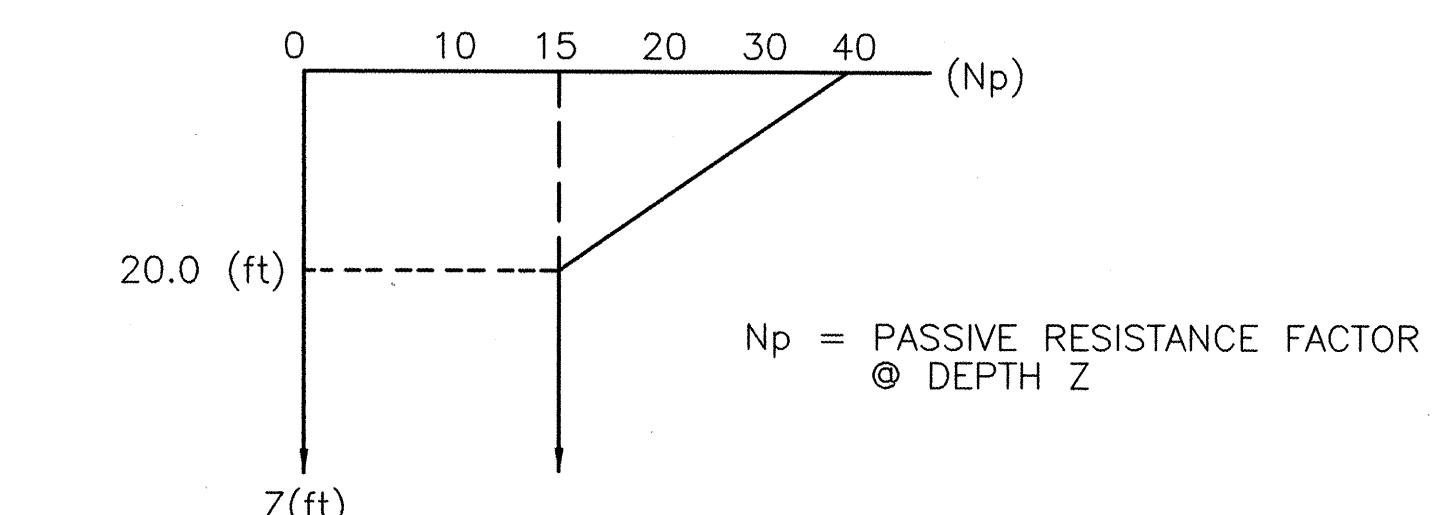
- THE COEFFICIENT OF SLIDING ON FOUNDATION SOIL SHALL BE 0.40.

2. DESIGN OF MSE WALLS SHALL BE AS PER AASHTO SPECIFICATIONS, 1996, SIXTEENTH EDITION AND CURRENT INTERIMS REQUIREMENTS EXCEPT AS FOLLOWS:

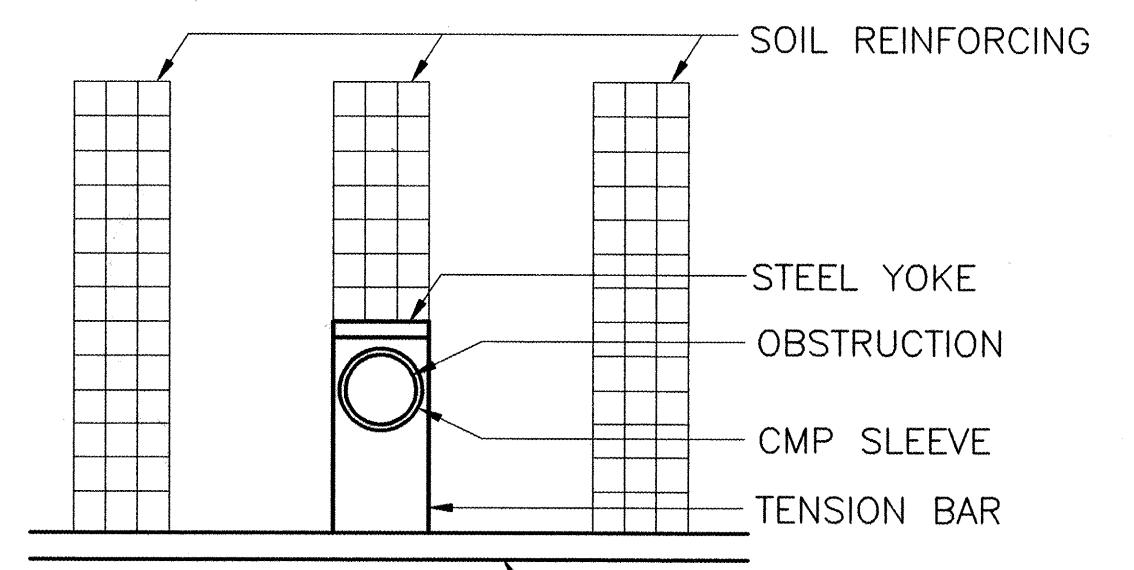
A. THE DESIGN HORIZONTAL PRESSURE ON THE PANEL FACES SHALL BE DETERMINED USING HORIZONTAL EARTH PRESSURE COEFFICIENTS WHICH ARE DEPENDENT ON THE SOIL REINFORCEMENT SYSTEM AS SHOWN IN THE DIAGRAM BELOW. THE HORIZONTAL PRESSURES SHALL BE COMPUTED BASED ON THE APPLICABLE PRESSURE COEFFICIENT K_z MULTIPLIED BY THE SUM OF THE WEIGHT OF THE OVERTURDEN AT A GIVEN DEPTH Z PLUS ALL APPLICABLE LIVE LOAD SURCHARGE AND OTHER REQUIRED DESIGN SURCHARGE. MEYERHOFF VERTICAL PRESSURES ARE NOT REQUIRED FOR INTERNAL STABILITY COMPUTATIONS.



B. FOR GRID STEEL REINFORCEMENT SYSTEMS WITH TRANSVERSE BAR SPACING OF OR GREATER THAN 6" THE PULLOUT FACTORS FOR USE IN THE PASSIVE RESISTANCE COMPUTATION OF THE CROSSBARS SHALL BE AS SHOWN IN THE DIAGRAM BELOW.



E. WHERE OBSTRUCTIONS SUCH AS DEEP FOUNDATIONS, INLETS, ETC. ARE PLACED IN THE REINFORCEMENT SOIL BACKFILL, A STRUCTURAL FRAME ("YOKE") SHALL BE DESIGNED TO PLACE REINFORCEMENTS. CUTTING OF REINFORCEMENTS IS NOT PERMITTED. THE REINFORCEMENTS SHALL NOT BE CONNECTED TO THE OBSTRUCTION. THE COST OF THE STRUCTURAL FRAMES IS CONSIDERED INCIDENTAL TO THE WORK AND NO ADJUSTMENT IN PAYMENT WILL BE MADE.



NOTE:
TO AVOID CONFLICTS WITH OBSTRUCTIONS & SOIL REINFORCEMENT, THE REINFORCING MESH WILL BE FASTENED TO A YOKE BEYOND THE OBSTRUCTION USING A DETAIL SIMILAR TO THAT SHOWN. ALL PORTIONS OF THE YOKE EXTENSION WILL BE DESIGNED BY THE WALL FABRICATOR.

PLACEMENT OF SOIL REINFORCEMENT AT OBSTRUCTIONS

NO SCALE

AS-BUILT INFORMATION	
CONTRACTOR	AS-Hansen, Inc.
INSPECTOR'S NAME	ARMIG SURVEY GROUP
DATE ISSUED	10/15/04
EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	SEE PLAN FOR FACE OF WALL (TYP.)
DRAWINGS CORRECTED BY	AS-Hansen, Inc.
DATE ISSUED	10/15/04
MICRO-FILM INFORMATION	GROUND TO GRID FACTOR = 0.99868083 NO. ELEVATION = 4362.83 (NGVD 29)
ENGINEER'S SEAL	SURVEY INFORMATION
FIELD NOTES	BENCH MARKS
NO. BY DATE	ACS BRASS TABLET STAMPED "14-J12"
BY DATE	ON CENTRAL AVE., 29.5' NE OF
REMARKS	EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.
REVISIONS	STATE PLANE COORDINATES (CENTRAL ZONE, NAD27)
DESIGN	N=488595.78 E=371837.70 (GROUND)
DATE 01/2004	RECORDED BY
DATE 01/2004	DATE 01/2004
DATE 01/2004	DATE 01/2004

QUALIFIED PRODUCTS LIST FOR EARTH RETAINING WALLS (MSE)

1. HILFIKER RETAINING WALLS, CALIFORNIA.
2. REINFORCED EARTH COMPANY, VIRGINIA.
3. RETAINED EARTH WALL MANUFACTURED BY VSL, TEXAS.

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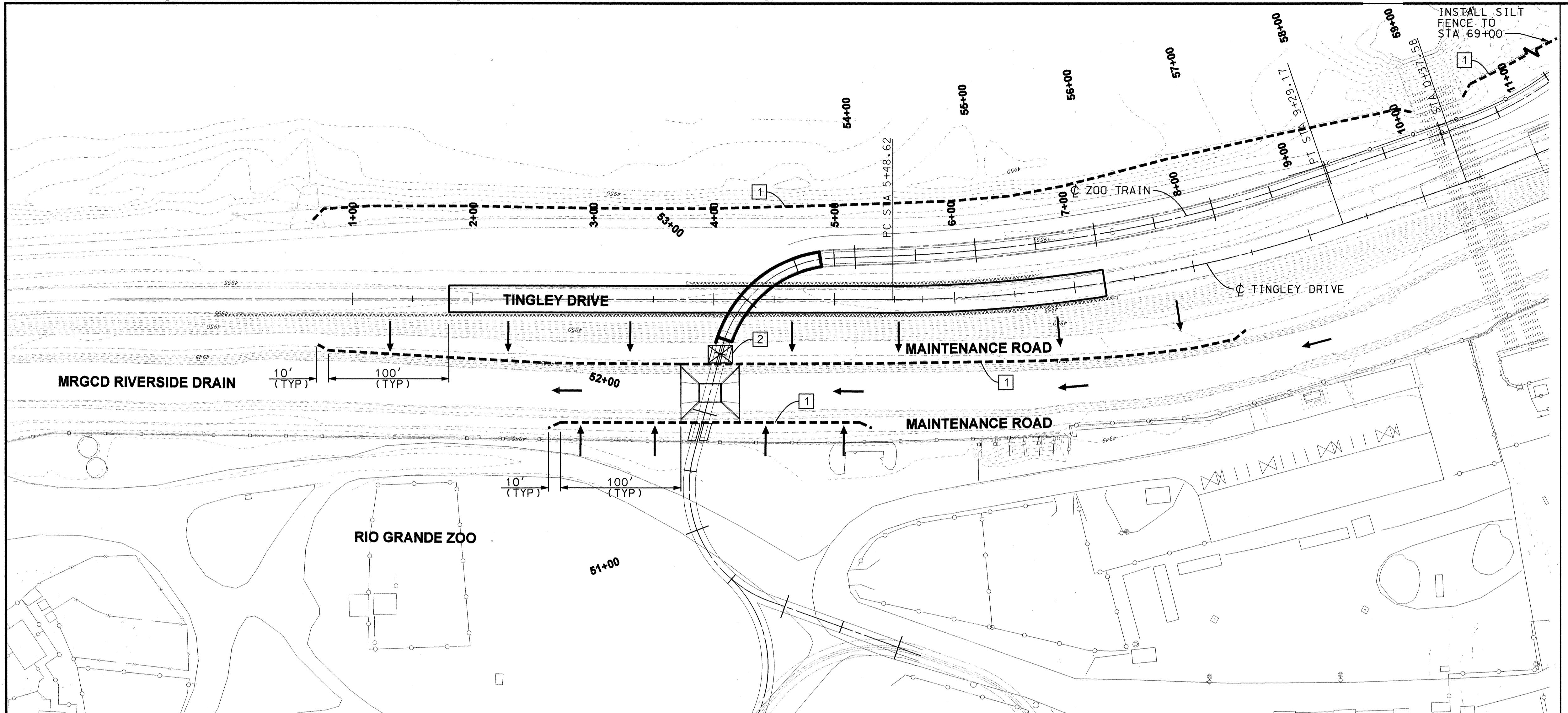
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

ZOO / BIO PARK TRAIN

TRAIN MSE WALL SECTIONS AND NOTES

DESIGN REVIEW COMMITTEE APPROVED	CITY ENGINEER APPROVAL APPROVED	MO./DAY/YR.	MO./DAY/YR.
MAR - 9 2004	MAR - 9 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO. 6978.01 ZONE MAP NO. J-12, J-13, J-14 SHEET 18 OF 33

**KEYED NOTES**

1. INSTALL SILT FENCE
2. INSTALL DROP INLET PROTECTION

NOTES

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE TO ADJACENT PROPERTIES.
2. IF MEASURES PROVIDED IN THIS PLAN ARE INEFFECTIVE IN ANY MANNER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
3. ALL MATERIALS USED SHALL BE IN ACCORDANCE WITH NMDOA STANDARD SPECIFICATIONS OR AS APPROVED BY COA.
4. DROP INLET PROTECTION SHALL BE PROVIDED WITH EITHER SILT FENCE OR STRAW BALES PER DETAILS SHOWN ON THIS SHEET.
5. CONTRACTOR SHALL USE EXTREME CARE TO MINIMIZE DOWNSTREAM SEDIMENT TRANSFER WHEN WORKING IN OR ADJACENT TO THE RIVERSIDE DRAIN.

LEGEND

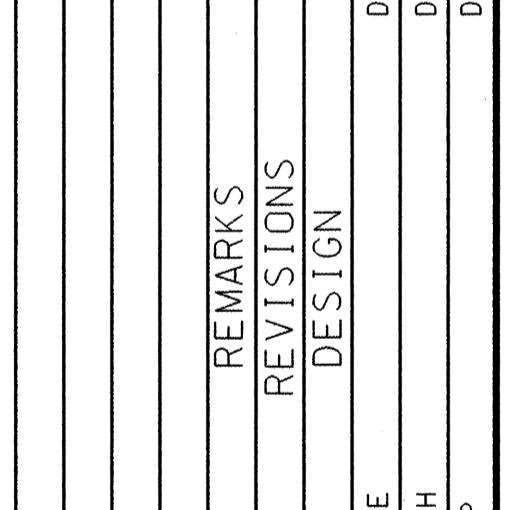
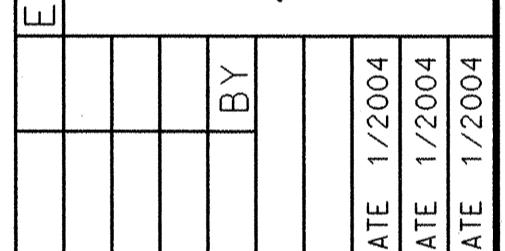
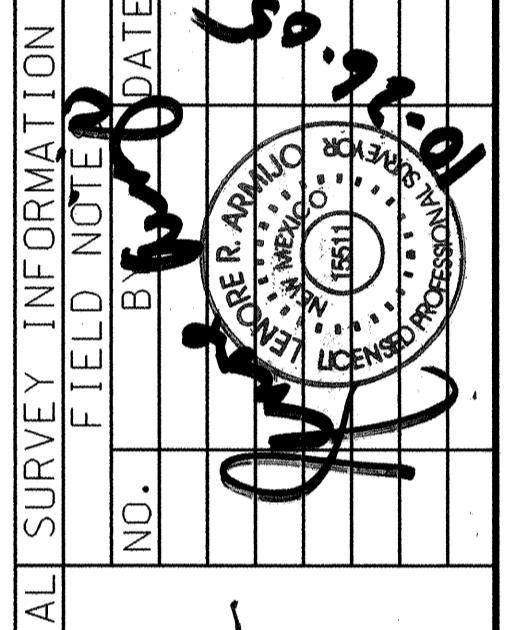
- - - SILT FENCE
- DROP INLET PROTECTION
- DIRECTION OF FLOW

AS-BUILT INFORMATION
BENCH MARKS

CONTRACTOR: *A.S. Hornor, Inc.*
WORKED BY: *Amigo Survey Group*
INSPECTOR: *BHI*
DATE: *10/15/04*

EXISTING EXPANSION JOINT ON THE RIO ACCEPTANCE BY: *Amigo Survey Group*
FIELD LOCATION: *GRANDE BRIDGE*
CORRECTED BY: *Amigo Survey Group*
DATE: *10/15/04*

MICRO-FILM INFORMATION
STATE PLANE COORDINATES (CENTRAL
GRANDE BRIDGE)
ZONE: *NA27*
N=148-8359-78 E=27-1837-70 (GROUND)
GROUND TO GRID FACTOR = 0.99968083 NO.
ELEVATION = 4362-83 (NGVD 29)



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ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

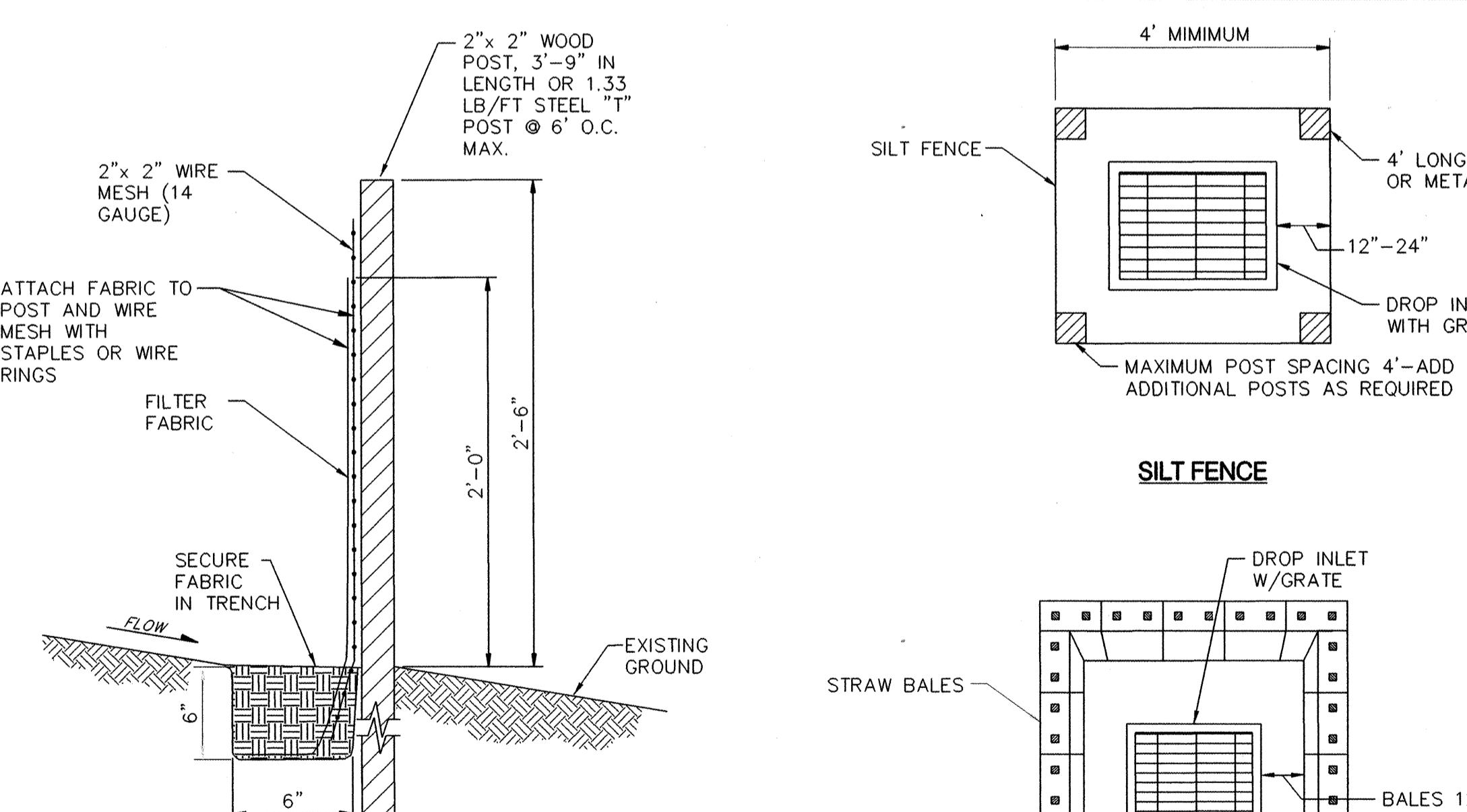
**ZOO / BIO PARK TRAIN
TEMPORARY EROSION & SEDIMENT CONTROL PLAN**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
<i>APPROVED</i> MAR - 9 2004 DESIGN REVIEW COMMITTEE	<i>APPROVED</i> MAR - 9 2004 CITY ENGINEER		
		LAST DESIGN UPDATE	

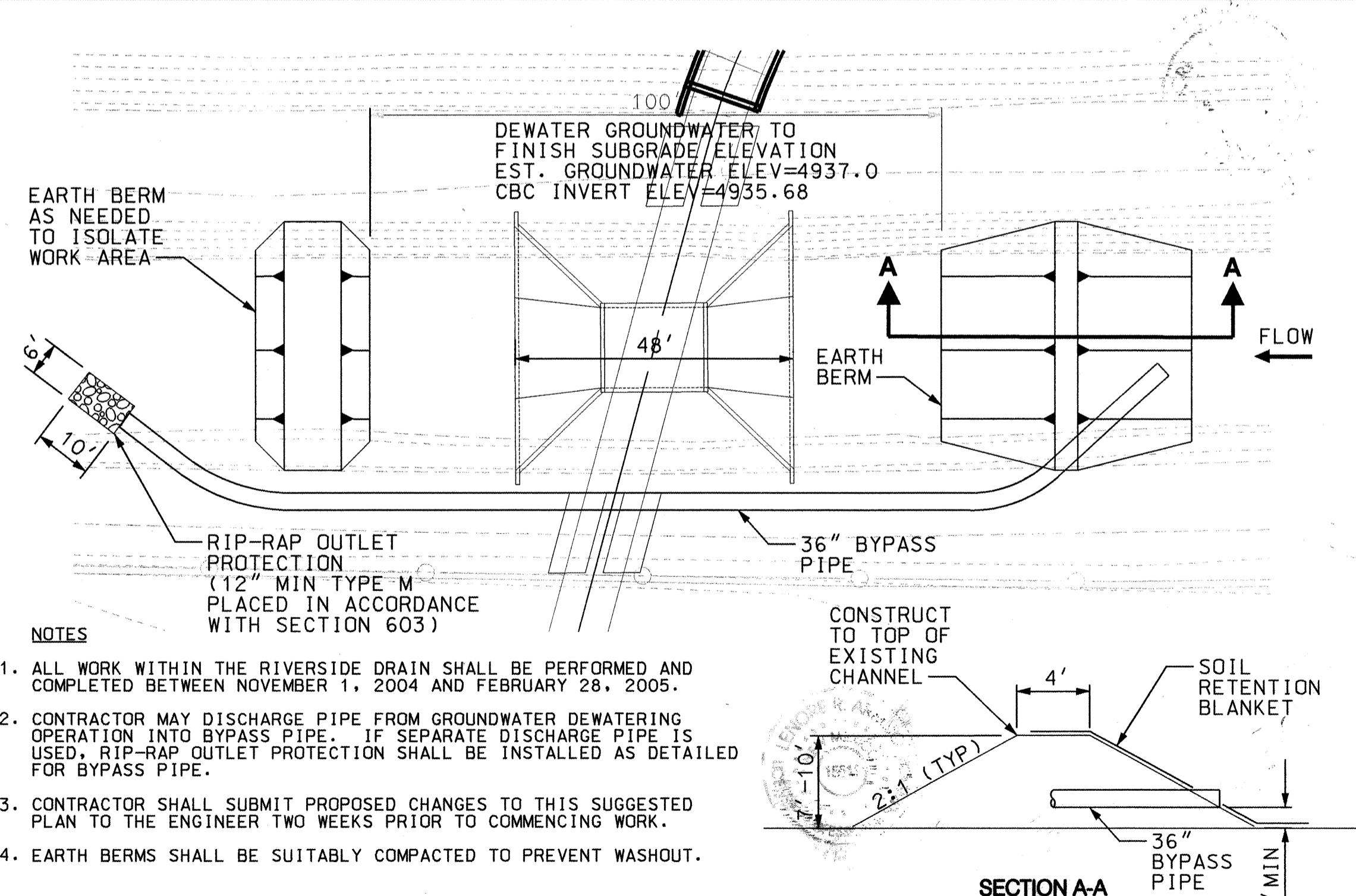
CITY PROJECT NO. 701192

ZONE MAP NO. J-12, J-13, K-13

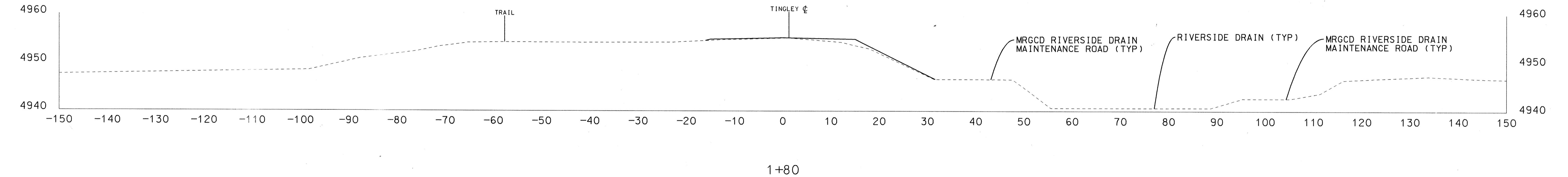
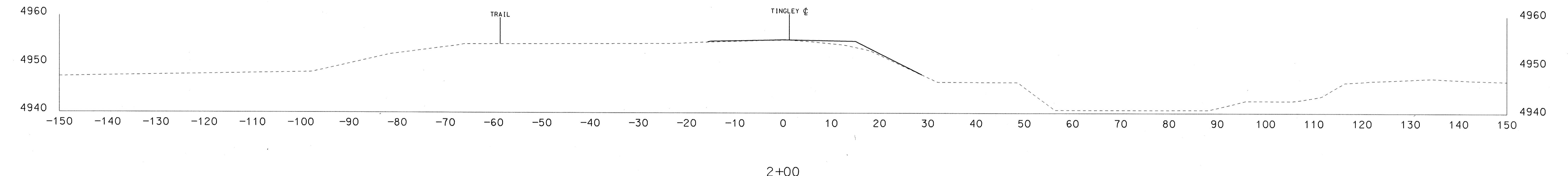
SHEET 19 OF 33



NOTE:
AT LOCATIONS WHERE SILT FENCE IS INSTALLED ADJACENT TO A
DRAINAGE CONTROL BERM, THE TWO SHALL OVERLAP AT THE
UPSTREAM END OF THE SILT FENCE- SUCH THAT RUNOFF MUST
FLOW THROUGH THE FENCE AND NOT AROUND THE END.

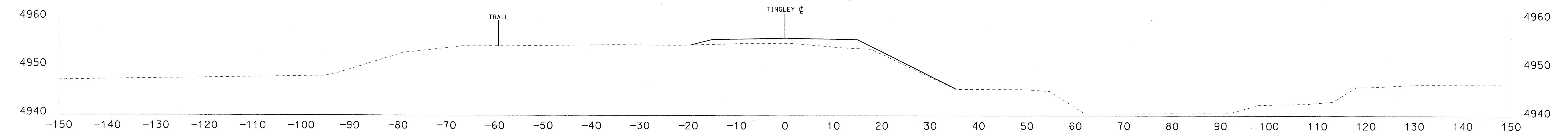


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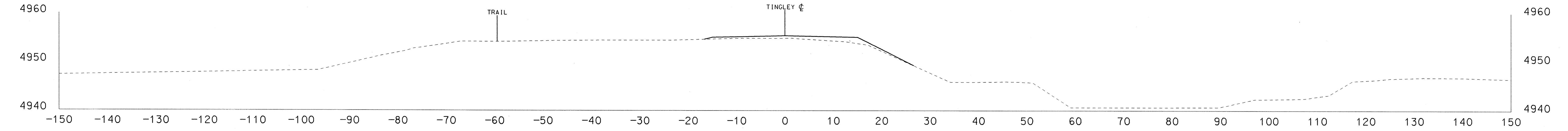


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Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

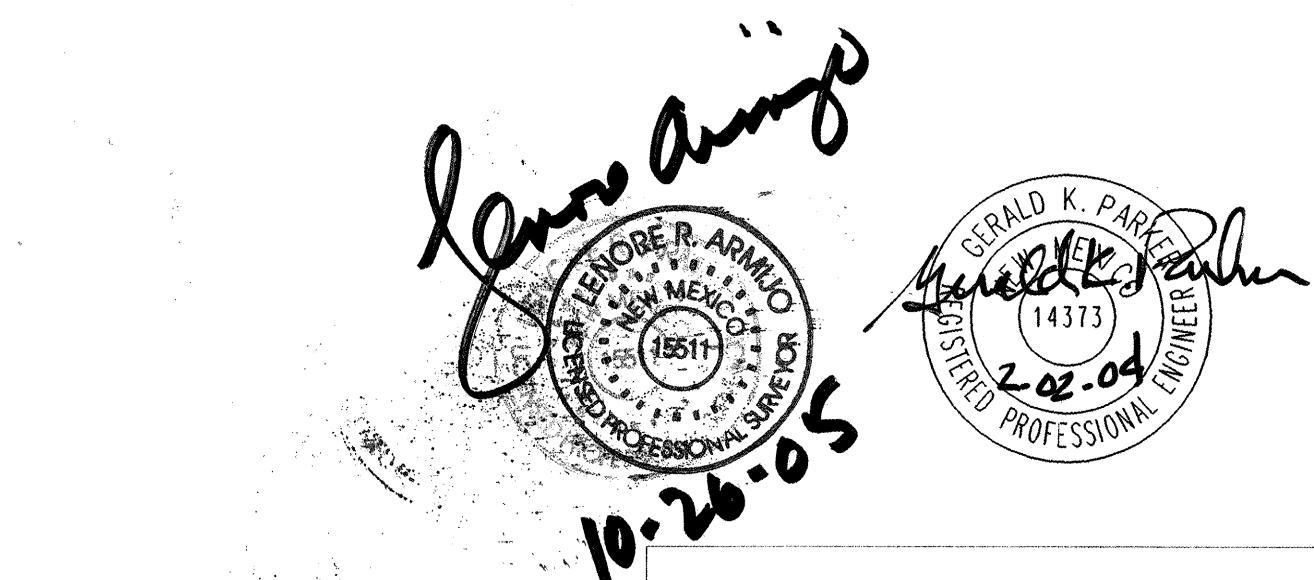
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		
ZOO / BIO PARK TRAIN CROSS SECTIONS		
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.
APPROVE	APPROVE	MAR - 9 2004
DESIGN REVIEW COMMITTEE	CITY ENGINEER	MO./DAY/YR.
APPROVE	APPROVE	MAR - 9 2004
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE
CITY PROJECT NO. 701192		ZONE MAP NO. J-12, J-13, K-13
		SHEET 20 OF 33



3+00

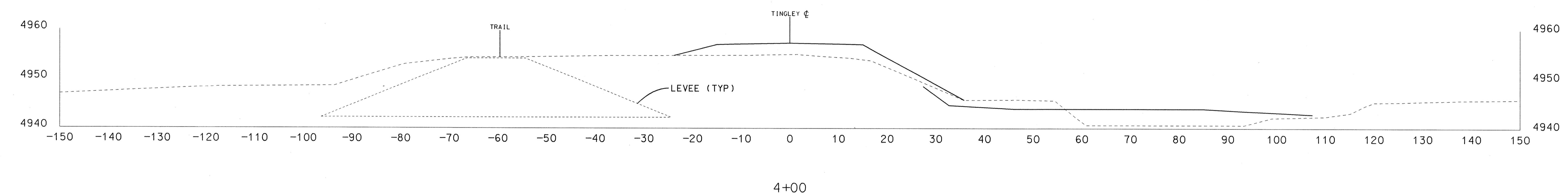


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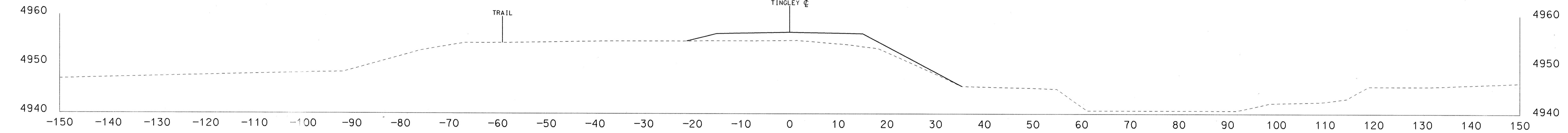


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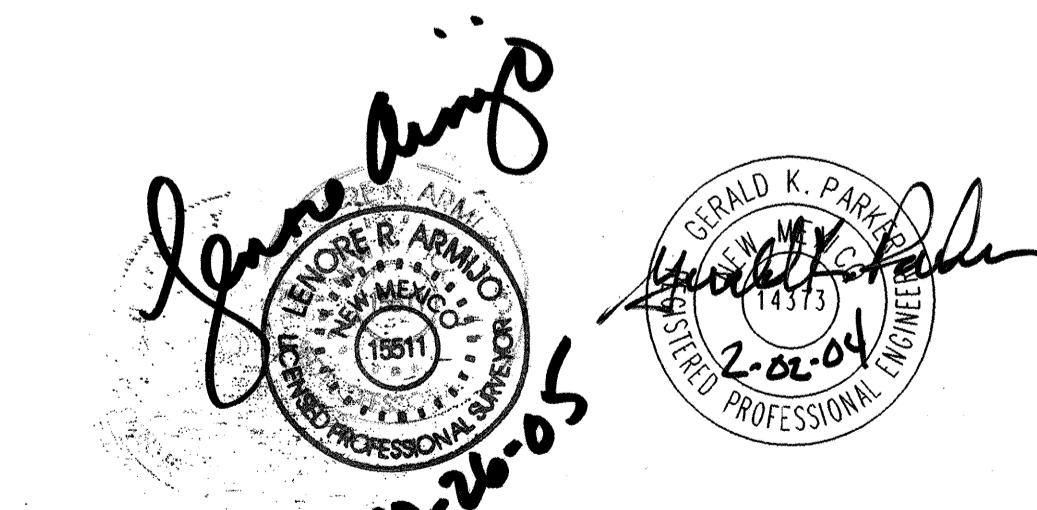
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		MO./DAY/YR.	MO./DAY/YR.
ZOO / BIO PARK TRAIN CROSS SECTIONS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	
MAR - 9 2004	MAR - 9 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
MAR - 9 2004	MAR - 9 2004		
CITY PROJECT NO.			
701192			
ZONE MAP NO.			
J-12, J-13, K-13			
SHEET NO.	21	OF	33



4+00

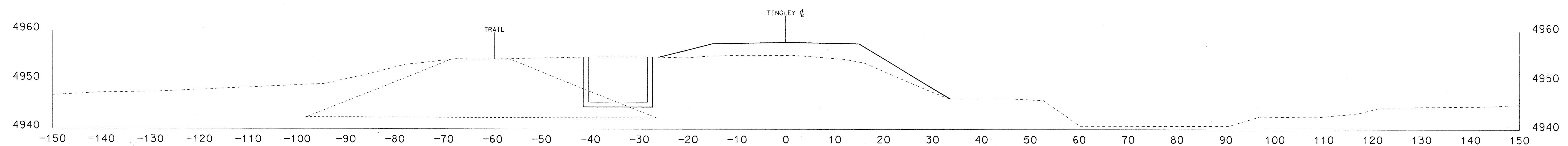


3+50

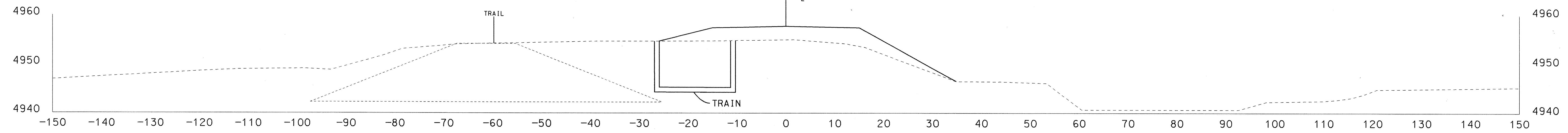


Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

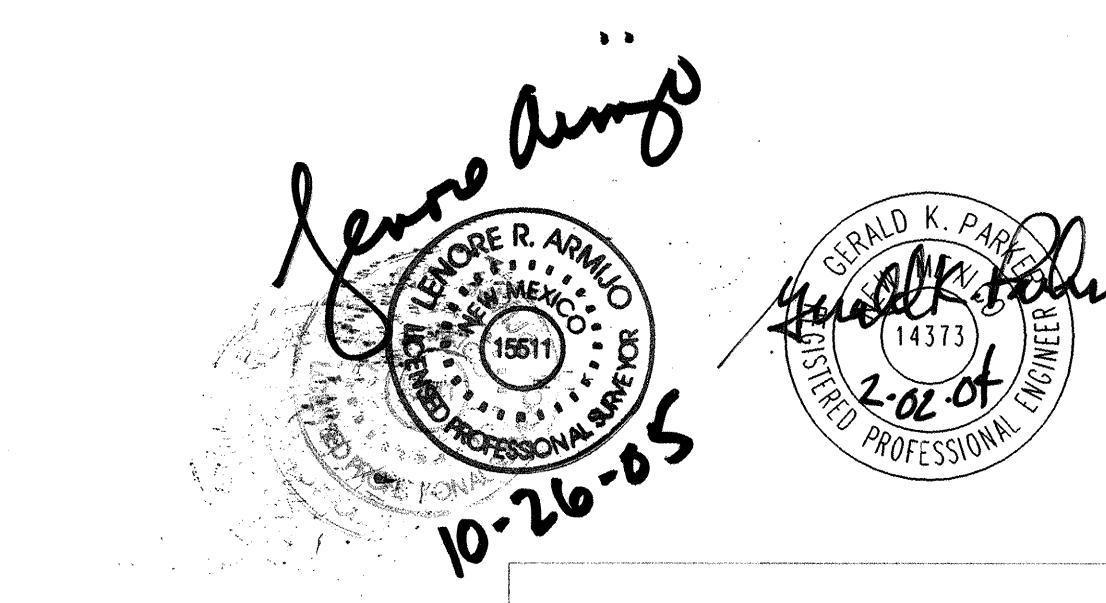
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		
ZOO / BIO PARK TRAIN CROSS SECTIONS		
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.
APPROVED	APPROVED	
MAR - 9 2004	MAR - 9 2004	
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE
CITY PROJECT NO. 701192		ZONE MAP NO. J-12, J-13, K-13
		SHEET 22 OF 33



5+00



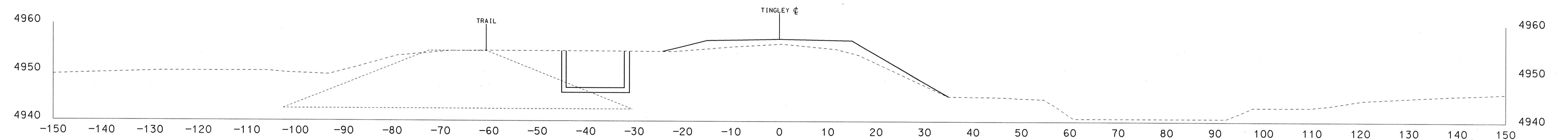
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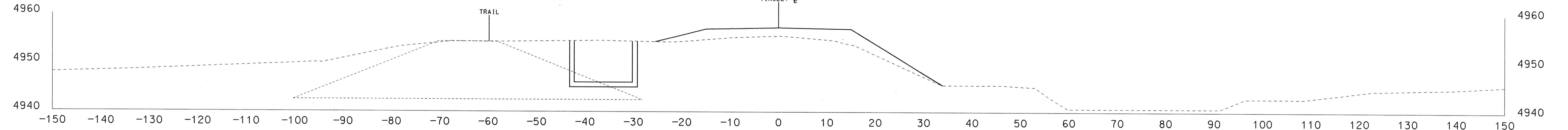
Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		
ZOO / BIO PARK TRAIN CROSS SECTIONS		
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.
APPROVED	APPROVED	MO./DAY/YR.
MAR - 9 2004	MAR - 9 2004	
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE
CITY PROJECT NO.	701192	ZONE MAP NO. J-12, J-13, K-13
SHEET	23	OF 33

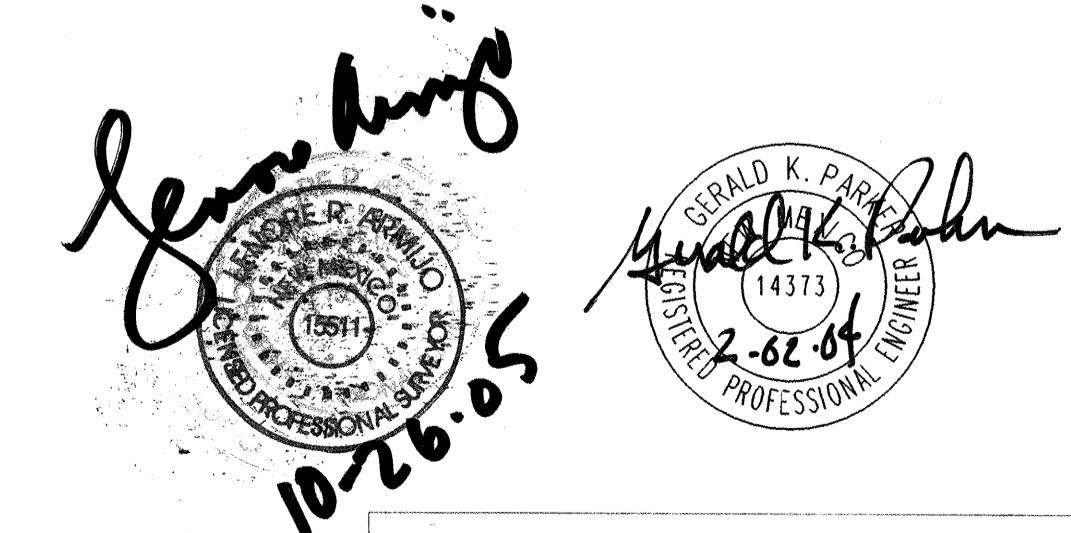
SCANNED BY
MESA REPRO



6+00

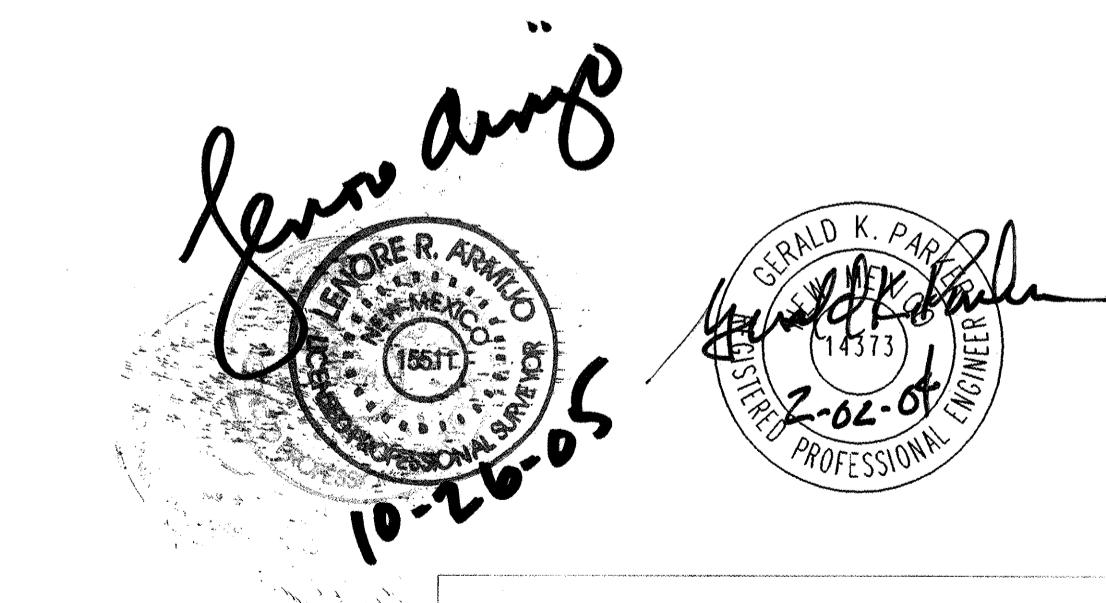
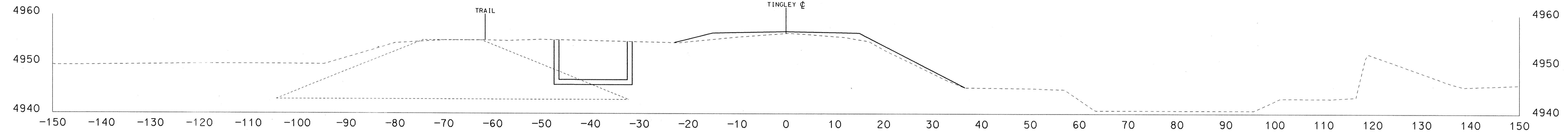
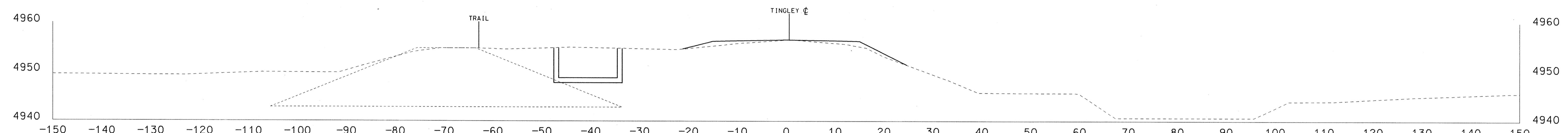


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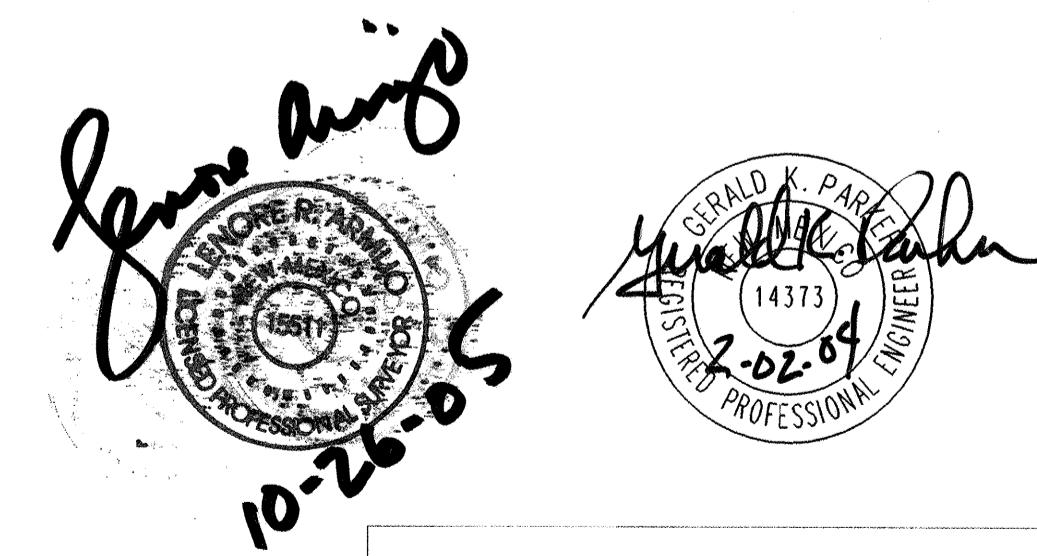
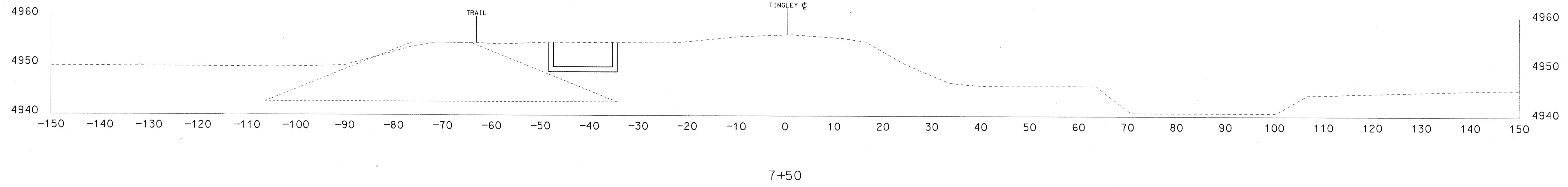
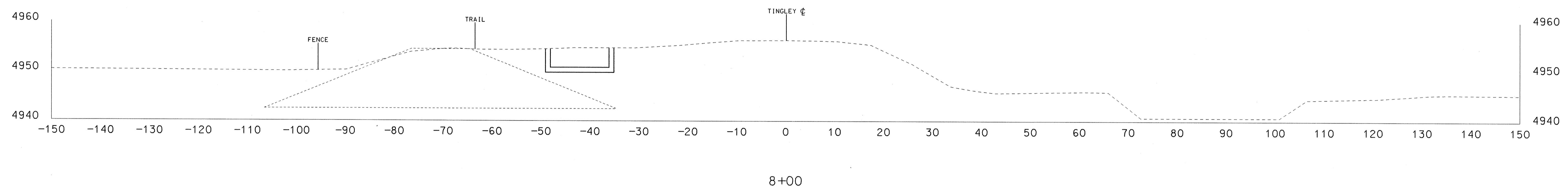
Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE		PUBLIC WORKS DEPARTMENT	ENGINEERING DEVELOPMENT GROUP
ZOO / BIO PARK TRAIN			
CROSS SECTIONS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED	APPROVED		
MAR - 9 2004	MAR - 9 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	
701192	J-12, J-13, K-13	24	33



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Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

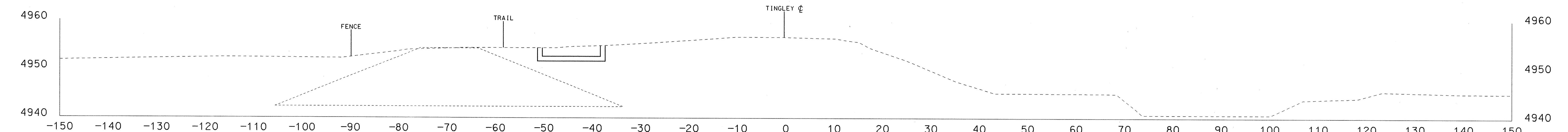
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MAR - 9 2004		MAR - 9 2004			
DESIGN REVIEW COMMITTEE APPROVAL		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	
CITY PROJECT NO. 701192		ZONE MAP NO. J-12, J-13, K-13		SHEET 25 OF 33	20



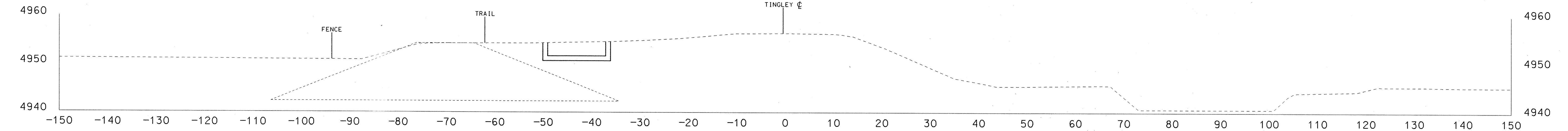
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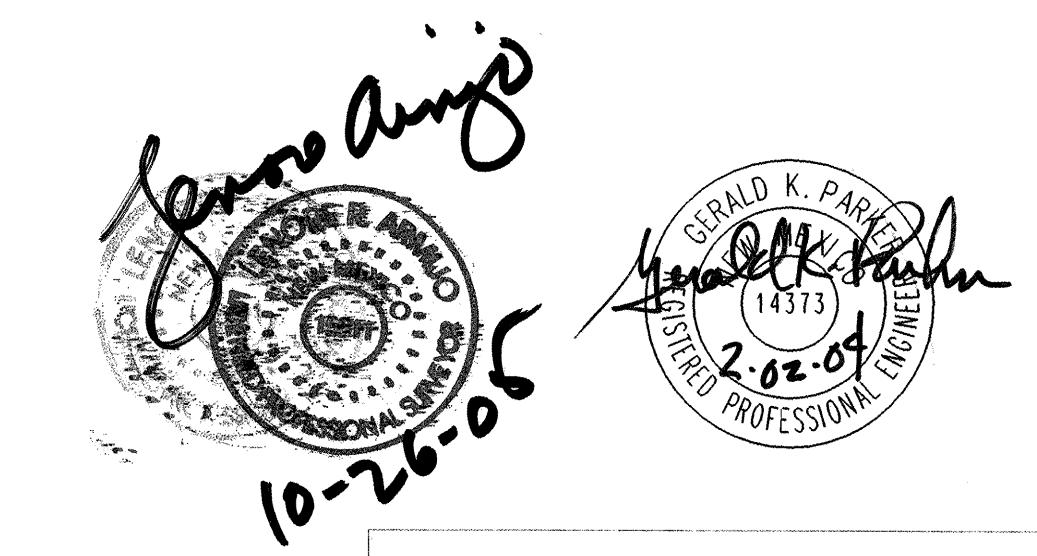
CITY OF ALBUQUERQUE	
PUBLIC WORKS DEPARTMENT	
ENGINEERING DEVELOPMENT GROUP	
ZOO / BIO PARK TRAIN	
CROSS SECTIONS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
APPROVED	APPROVED
MAR - 9 2004	MAR - 9 2004
DESIGN REVIEW COMMITTEE	CITY ENGINEER
CITY PROJECT NO.	ZONE MAP NO.
701192	J-12, J-13, K-13
LAST DESIGN UPDATE	SHEET
	26
	33



9+00

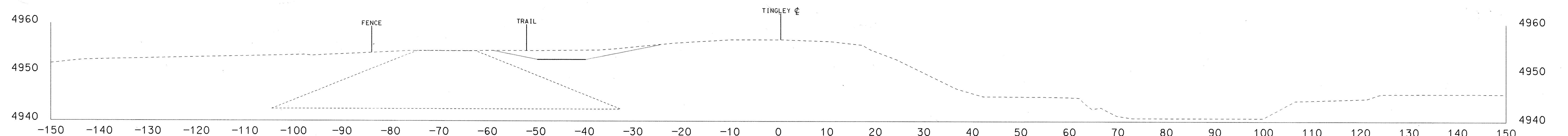


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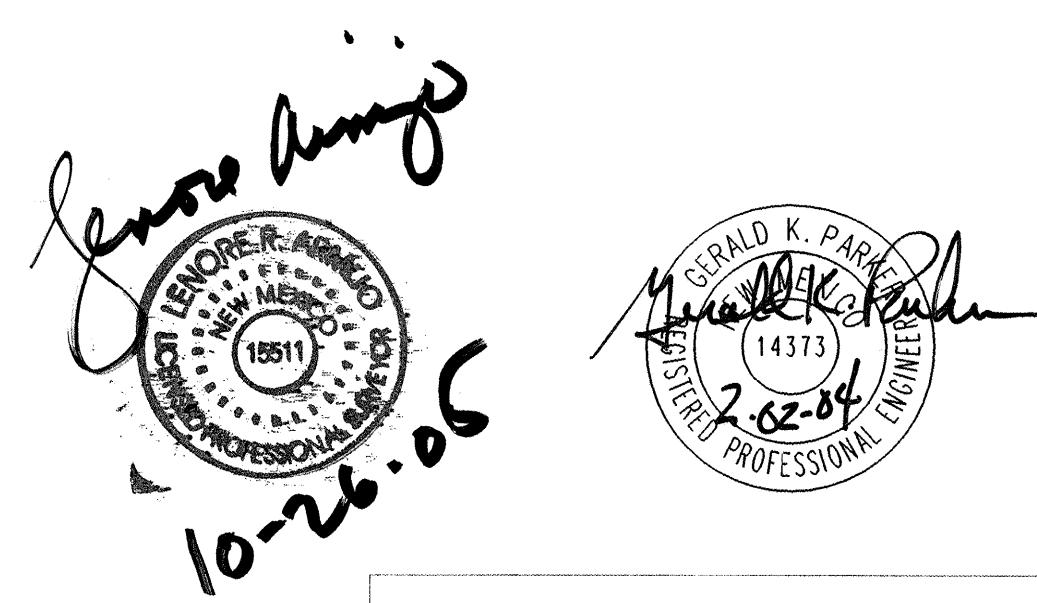


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Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

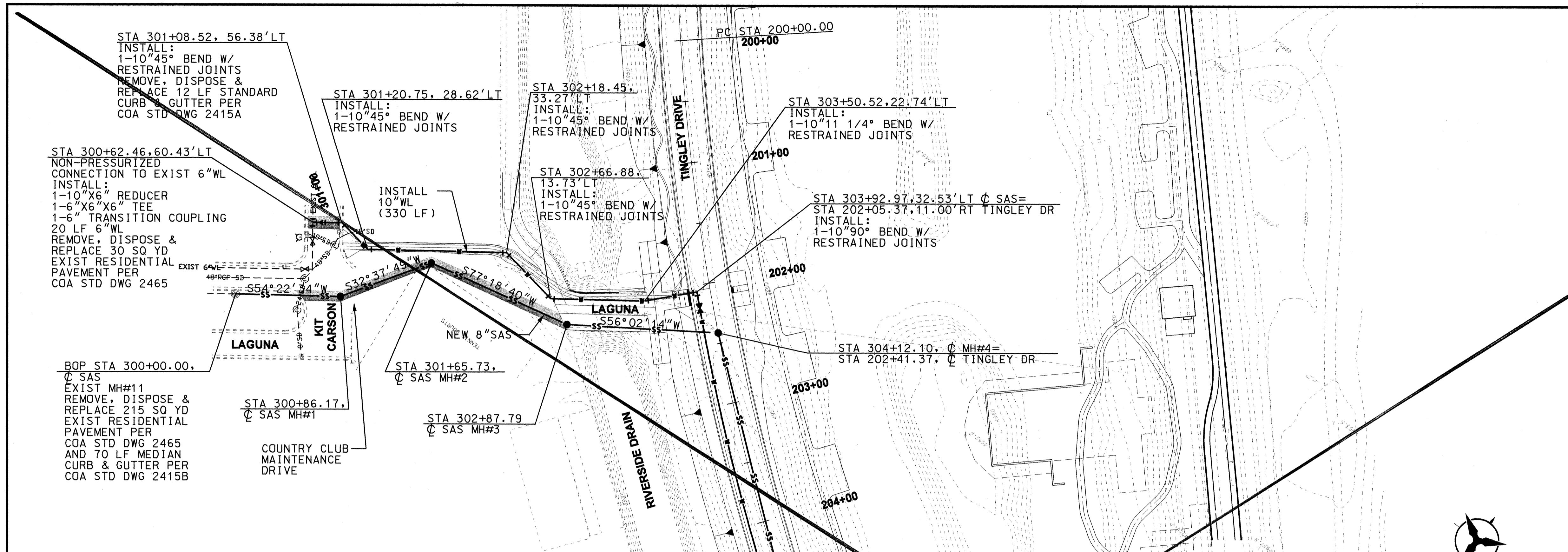
CITY OF ALBUQUERQUE		PUBLIC WORKS DEPARTMENT	
ENGINEERING DEVELOPMENT GROUP			
ZOO / BIO PARK TRAIN			
CROSS SECTIONS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED	APPROVED		
MAR - 9 2004	MAR - 9 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.		
701192	J-12, J-13, K-13	SHEET OF	33
			27



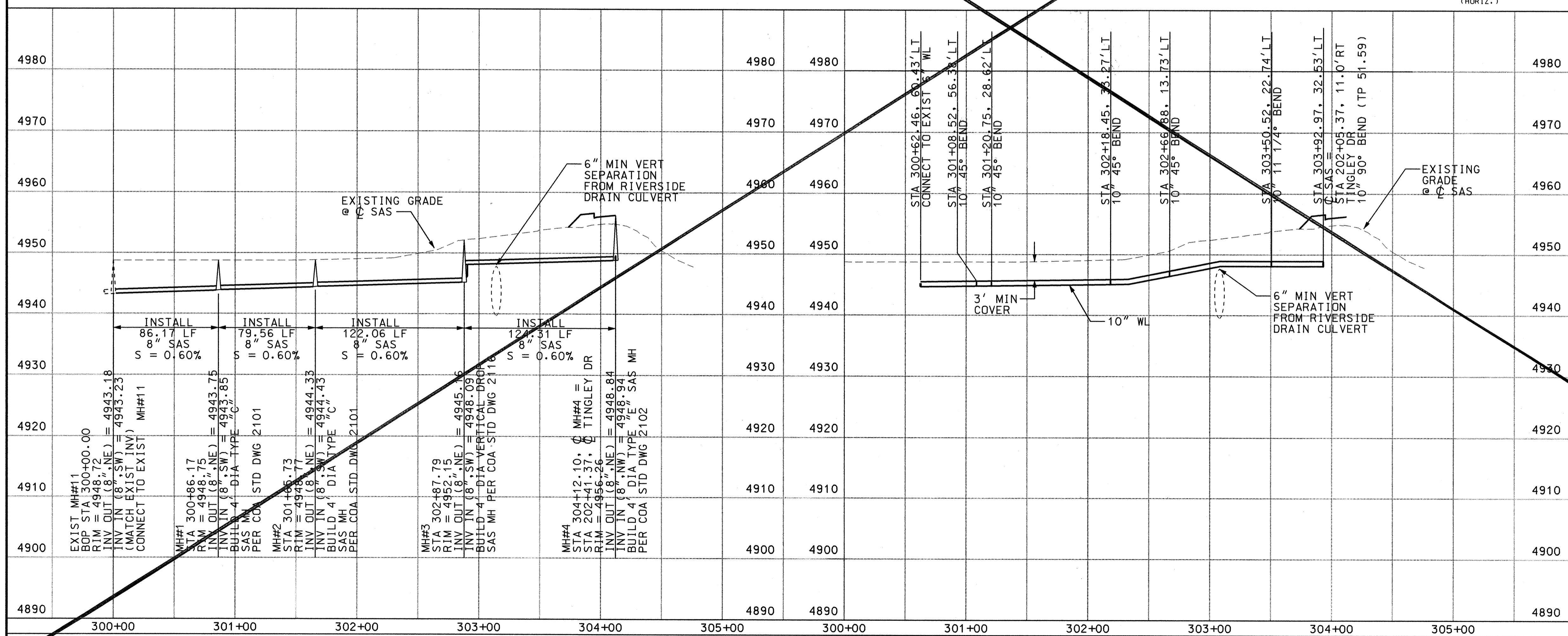
9+50



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		MO./DAY/YR.	MO./DAY/YR.
ZOO / BIO PARK TRAIN CROSS SECTIONS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	
APPROVED	APPROVED		
MAR - 9 2004	MAR - 9 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET OF	
701192	J-12, J-13, K-13	28	33



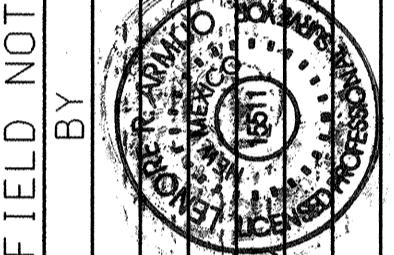
AQUATIC PARK SANITARY SEWER AND WATER LINE



NOTES

1. CONTRACTOR SHALL PROVIDE ACCESS TO COUNTRY CLUB MAINTENANCE DRIVE AT ALL TIMES DURING CONSTRUCTION.
2. CONTRACTOR NOT TO CREATE A HIGH POINT IN THE WATERLINE IN LAGUNA AND TINGLEY DRIVE. THE HIGH POINT SHALL OCCUR AT THE CONNECTION POINT IN CENTRAL AVENUE.

AS-BUILT INFORMATION	
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS
	6" 10" 12"
6"X6"TEE	1 - -
10"X10"X10"TEE	- 24 -
10"X6"REDUCER	- 42 -
12"X10"REDUCER	- 25 -
90° HORIZ BEND	18 28 -
45° HORIZ BEND	- 12 -
22.5° HORIZ BEND	- 6 -
11.25° HORIZ BEND	- 3 -
GATE VALVE/CAP	44 68 80



RESTRAINING JOINT TABLE

NO.	FIELD NOTES	SURVEY INFORMATION			BENCH MARKS
		ACS BRASS TABLET STAMPED "14-J12"	DATE	CONTRACTOR	
1	BY DATE	ON CENTRAL AVE, 29'-5" NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	INSPECTOR'S DATE	STATE PLANE COORDINATES (CENTRAL ZONE, NAD27)	GRANDE BRIDGE.
2	BY DATE	E-371837.70 (GROUND)	ACCEPTANCE BY DATE	N=148959.78	MICRO-FILM INFORMATION DATE
3	BY DATE	GROUND TO GRID FACTOR = 0.9996083	RECORDED BY DATE	ELEVATION = 4962.03 (NGVD 29)	

NOTE:
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.

2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE POINTS WITHIN 20 LF OF MJ SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE (SEE NOTE 2 ABOVE).

4. ALL CAPS SHALL UTILIZE PCC BLOCKING, UNLESS OTHERWISE NOTED.

5. RESTRAINED LENGTH IS ON LARGE SIDE OF ALL REDUCERS.

ADDENDUM #1

Bohannan Huston Inc.

Courtyard 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING SPATIAL DATA ADVANCED TECHNOLOGIES



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

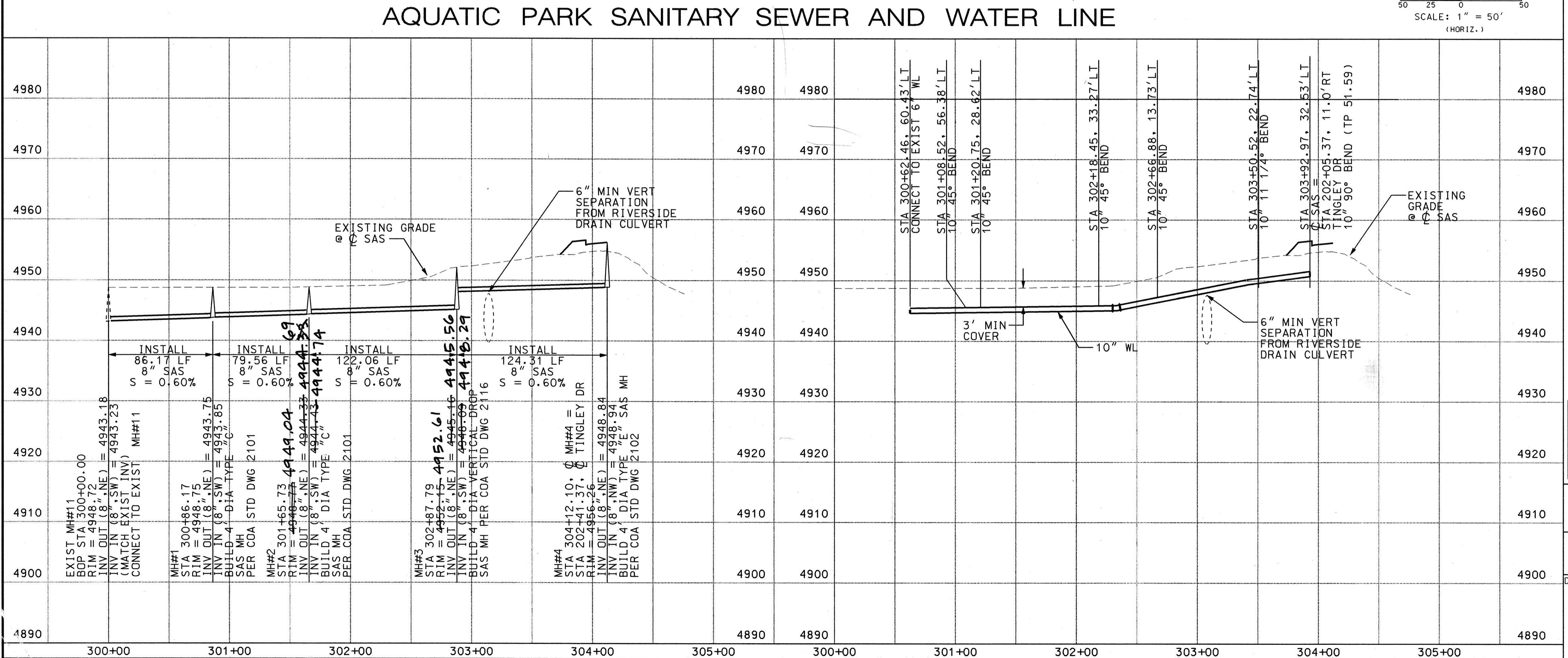
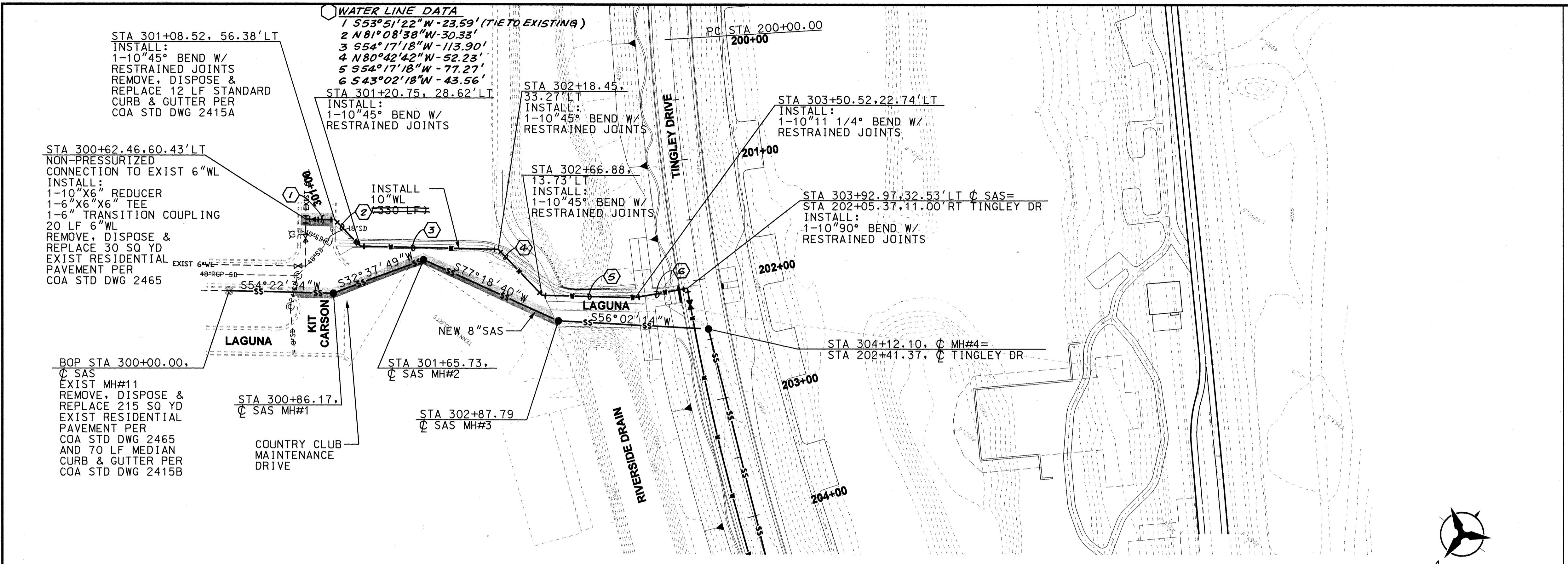
AQUATIC PARK SANITARY SEWER & WATER LINE

PLAN & PROFILE
BOP TO STA 203+00

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL MO./DAY/YR. MO./DAY/YR.

LAST DESIGN UPDATE

CITY PROJECT NO. 701192 ZONE MAP NO. J-13, K-13 SHEET 30 OF 33



02-Apr-2004
P:\04013\006\Trans\Design\Plans\040133-006-prn0150

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)
BHI JOB NO. 040133

CITY PROJECT NO. 701192 ZONE MAP NO. J-12, J-13, K-13 SHEET 30A OF 33

RECORD DRAWING

RESTRAINING JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS		
	6"	10"	12"
6"x6"x6"TEE	1	-	-
10"x10"x10"TEE	-	24	-
10"x6"REDUCER	-	42	-
12"x10"REDUCER	-	-	25
90° HORIZ BEND	18	28	-
45° HORIZ BEND	-	12	-
22.5° HORIZ BEND	-	6	-
11.25° HORIZ BEND	-	3	-
GATE VALVE/CAP	44	68	80

- NOTE:**
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
 - THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE POINTS WITHIN 20 LF OF MJ SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE (SEE NOTE 2 ABOVE).
 - ALL CAPS SHALL UTILIZE PCC BLOCKING, UNLESS OTHERWISE NOTED.
 - RESTRAINED LENGTH IS ON LARGE SIDE OF ALL REDUCERS.

ADDENDUM #1

Bohannan Huston
Courtland 1 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

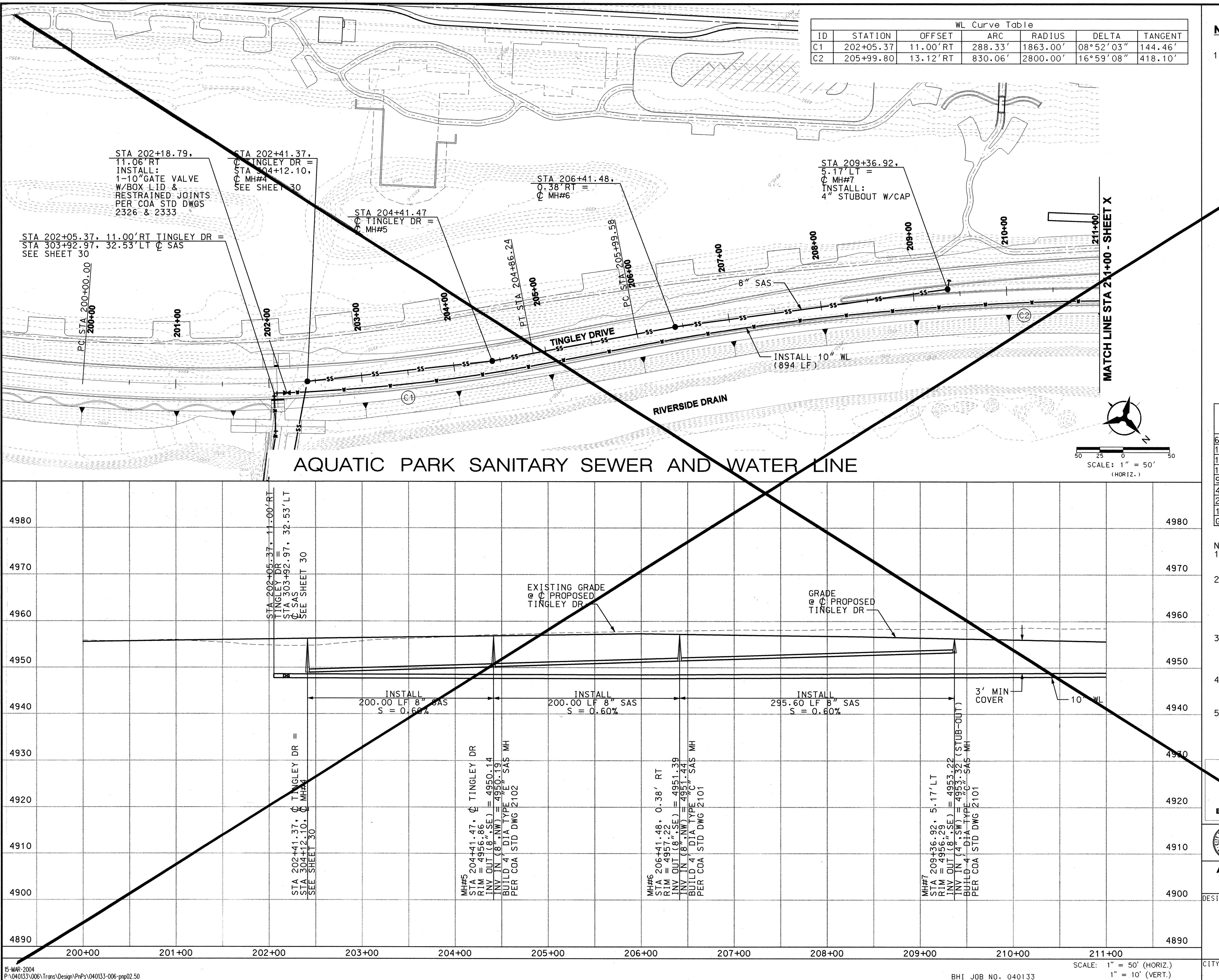
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

AQUATIC PARK SANITARY SEWER & WATER LINE
PLAN & PROFILE
BOP TO STA 203+00

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL MO./DAY/YR. MO./DAY/YR.

LAST DESIGN UPDATE

AS-BUILT INFORMATION	
FIELD NOTES	BENCH MARKS
NO. BY DATE	ACS BRASS TABLE STAMPED "14-JUL-02"
STATE PLANE COORDINATES (CENTRAL ROLLING MEASURED BY R. LOPEZ)	ON CENTRAL AVENUE, .295' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.
ZONE, NAD27	N=14895959.78 E=371837.70 (GROUND)
DATE	VERIFICATION BY A. HARRIS, INC. MICRO-FILM INFORMATION
RECORDED BY	DATE
ELEVATION = 4962-83 (NGVD 29)	

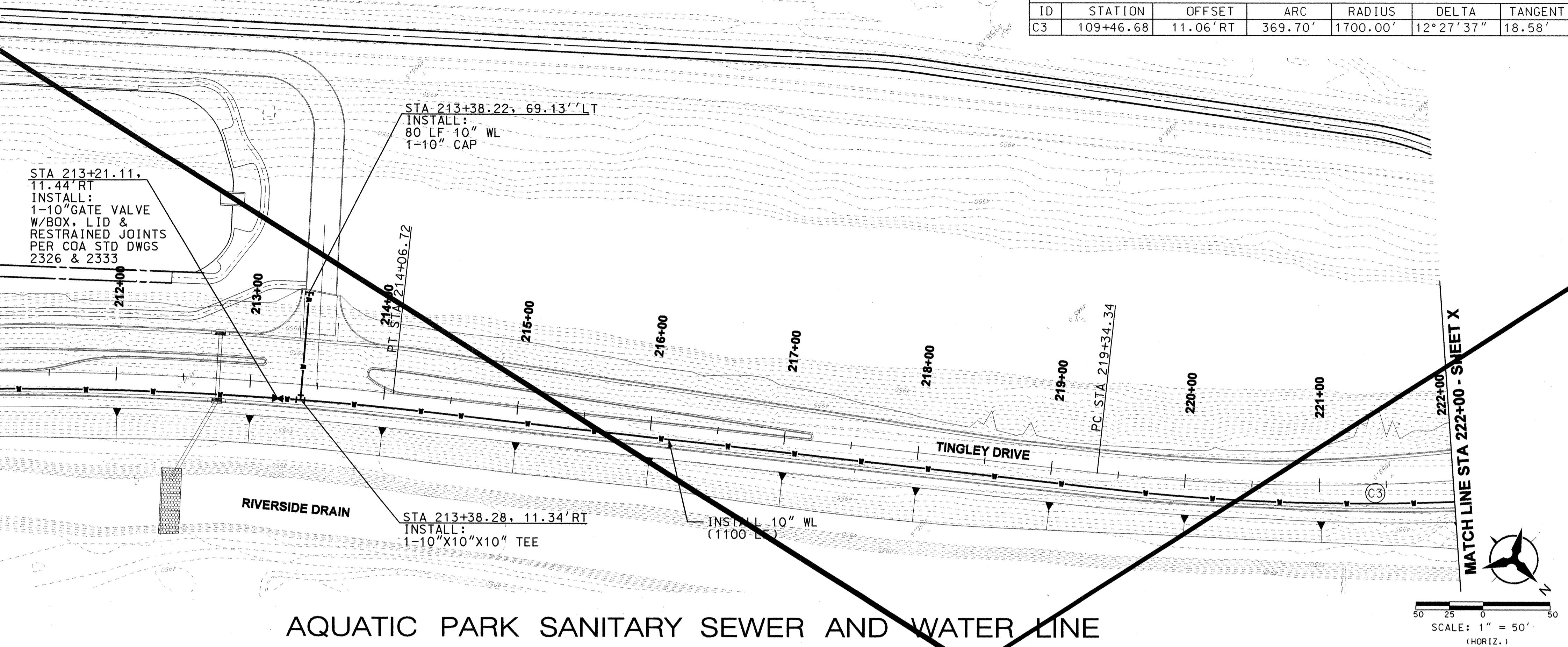


AS-BUILT INFORMATION		FIELD NOTES		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
NO.	BY	DATE ON CENTRAL AVE.	29-5' NE OF EXISTING EXPANSION JOINT ON THE RIO GRANDE BRIDGE.	AC'S BRASS TABLET STAMPED "14-J-112"	NO. OF INSPECTORS	STATE PLANE COORDINATES (CENTRAL ZONE - NAD27)	DATE OF ACCEPTANCE BY CONTRACTOR	RECORD NUMBER	DATE MICRO-FILM INFORMATION
4980									
4970									
4960									
4950									
4940									
4930									
4920									
4910									
4900									
4890									

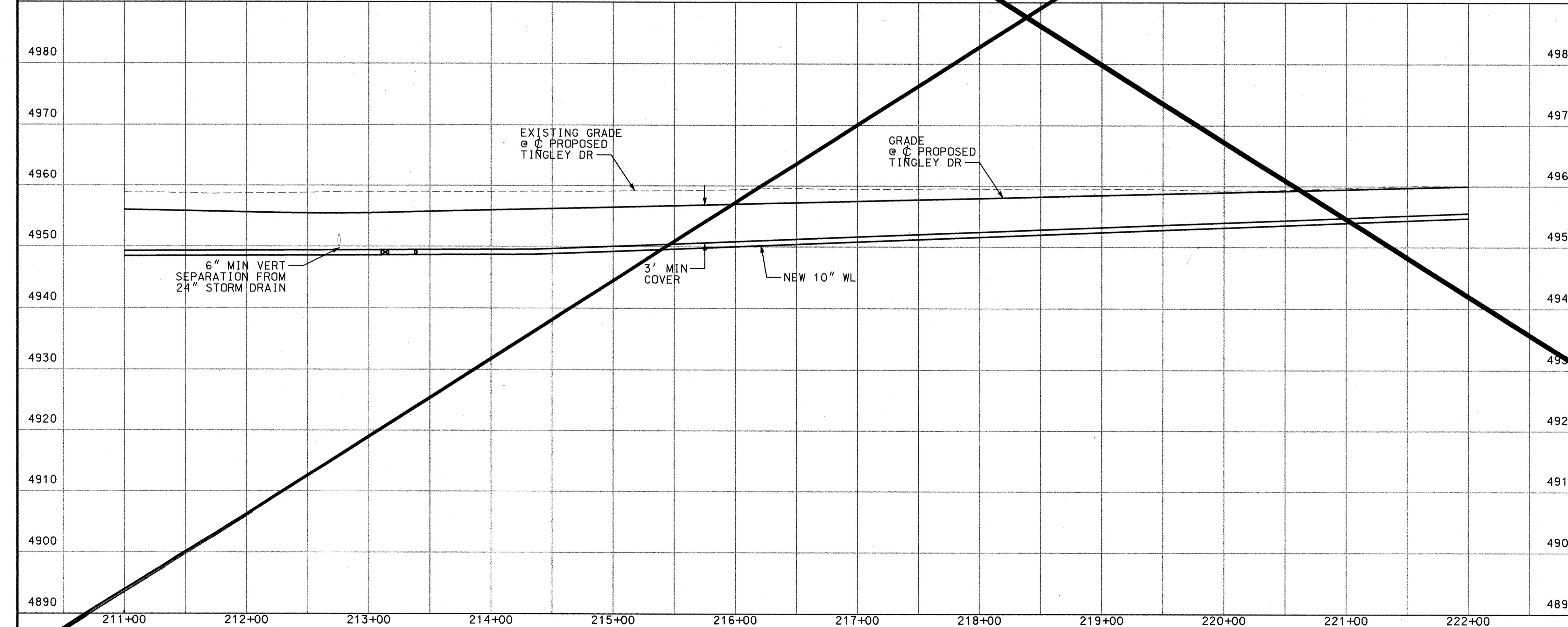
△ SHEET DELETED OR REPLACED BY SHEET 31A
3-04 ADDENDUM #1
NO. DATE
REMARKS
BY RCL
REVISONS
DESIGN
DRAWN BY LAH
CHECKED BY DG

△ SHEET DELETED OR REPLACED BY SHEET 31B
3-04 ADDENDUM #2
NO. DATE
REMARKS
BY RCL
REVISONS
DESIGN
DRAWN BY LAH
CHECKED BY DG

MATCH LINE STA 211+00 - SHEET X



AQUATIC PARK SANITARY SEWER AND WATER LINE



RESTRAINING JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS		
	6"	10"	12"
6"x6"x6"TEE	1	-	-
10"x10"x10"TEE	-	24	-
10"x6"REDUCER	-	42	-
12"x10"REDUCER	-	-	25
90° HORIZ BEND	18	28	-
45° HORIZ BEND	-	12	-
22.5° HORIZ BEND	-	6	-
11.25° HORIZ BEND	-	3	-
GATE VALVE/CAP	44	68	80

NOTE:
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.

2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE POINTS WITHIN 20 LF OF MJ SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE (SEE NOTE 2 ABOVE).

4. ALL CAPS SHALL UTILIZE PCC BLOCKING, UNLESS OTHERWISE NOTED.

5. RESTRAINED LENGTH IS ON LARGE SIDE OF ALL REDUCERS.

ADDENDUM #1

Bohannan Huston

Courtyard I • 1500 Jefferson St. NE • Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

AQUATIC PARK SANITARY SEWER & WATER LINE
PLAN & PROFILE
STA 211+00 TO STA 222+00

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL MO./DAY/YR. MO./DAY/YR.

LAST DESIGN UPDATE
CITY PROJECT NO. 701192 ZONE MAP NO. J-12 J-13 K-13 SHEET 32 OF 33

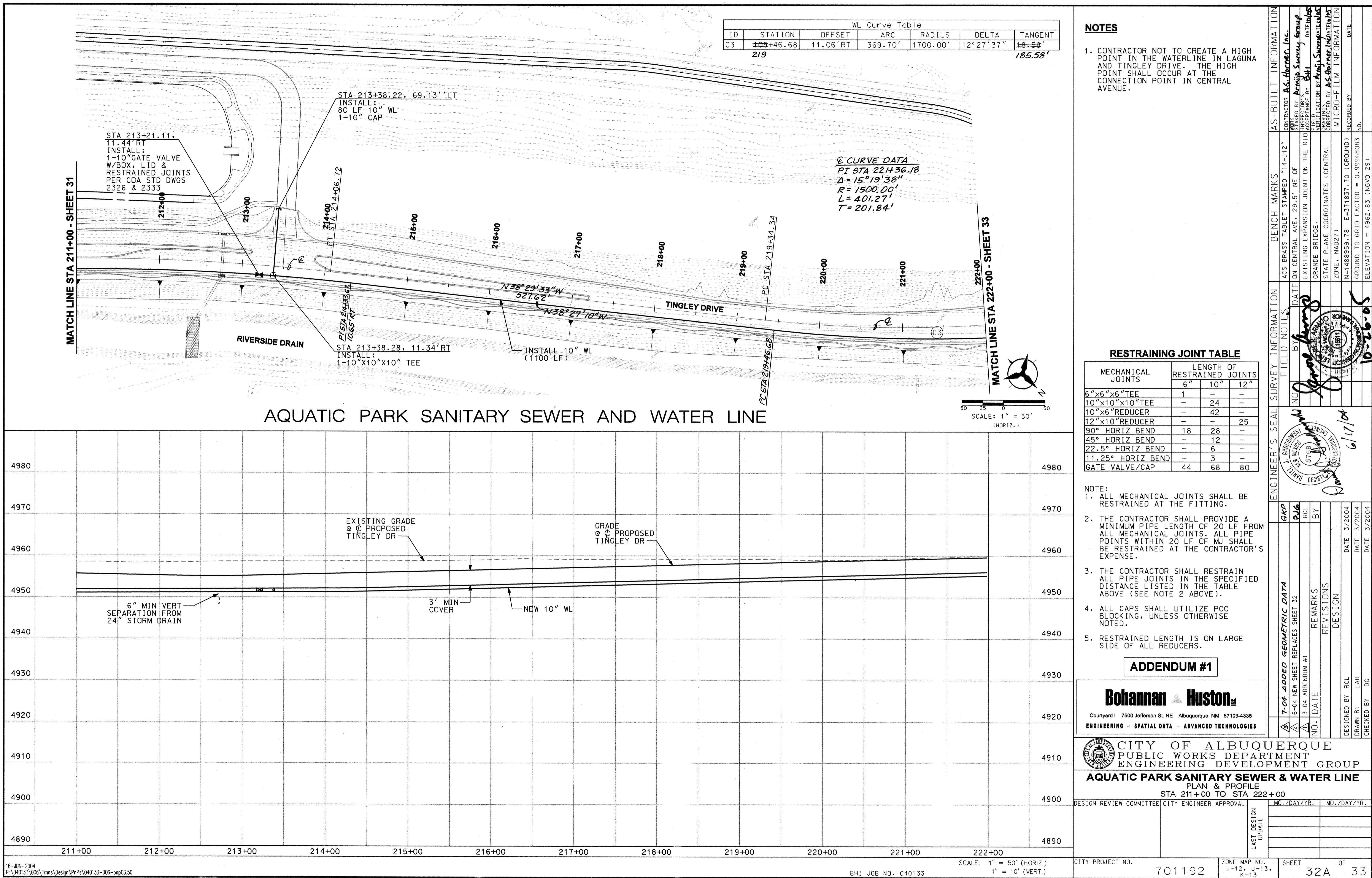
1. CONTRACTOR NOT TO CREATE A HIGH POINT IN THE WATERLINE IN LAGUNA AND TINGLEY DRIVE. THE HIGH POINT SHALL OCCUR AT THE CONNECTION POINT IN CENTRAL AVENUE.

2. DATE: 3-15-04
BY: RICHARD G. LOPEZ
RELEASER: RICHARD G. LOPEZ
RELEASER DATE: 3-15-04
RELEASER SIGNATURE:

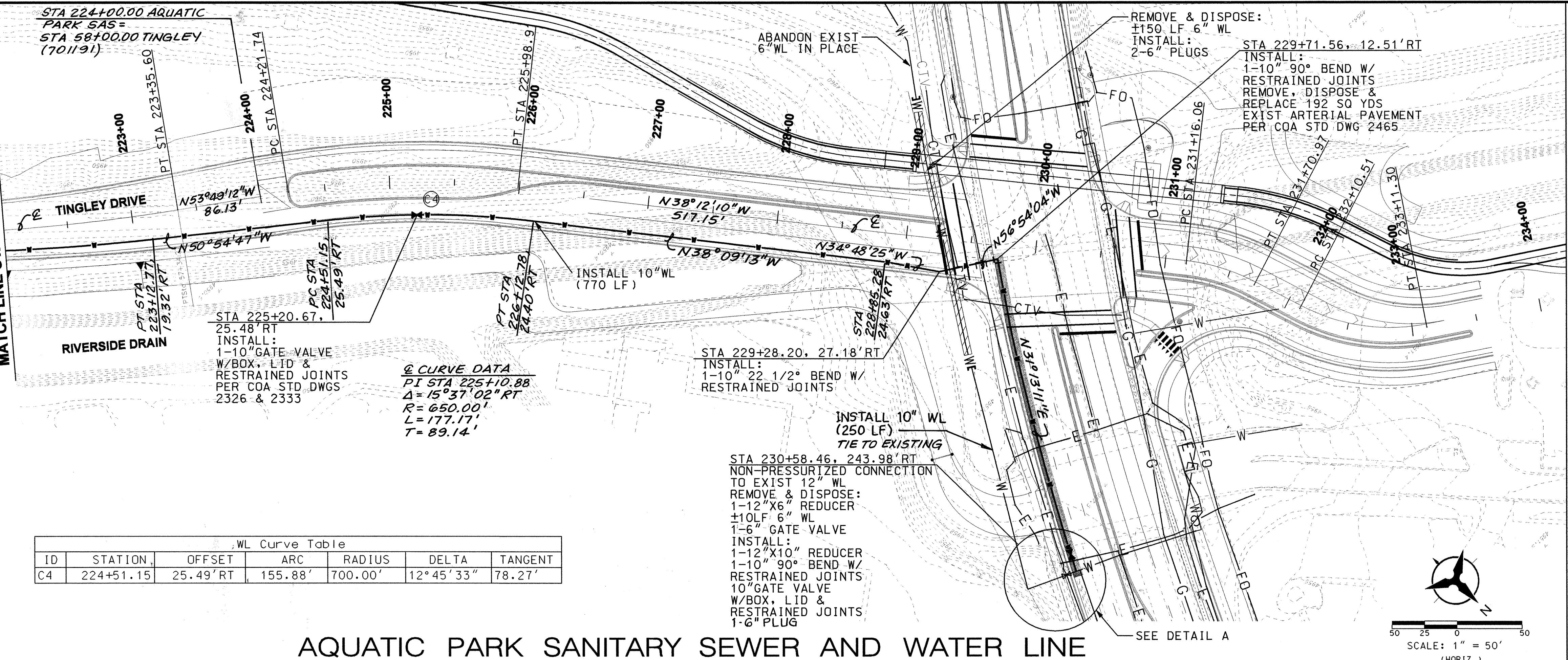
3. DATE: 3-15-04
BY: RICHARD G. LOPEZ
RELEASER: RICHARD G. LOPEZ
RELEASER DATE: 3-15-04
RELEASER SIGNATURE:

4. DATE: 3-15-04
BY: RICHARD G. LOPEZ
RELEASER: RICHARD G. LOPEZ
RELEASER DATE: 3-15-04
RELEASER SIGNATURE:

5. DATE: 3-15-04
BY: RICHARD G. LOPEZ
RELEASER: RICHARD G. LOPEZ
RELEASER DATE: 3-15-04
RELEASER SIGNATURE:

**RECORD DRAWING**

MATCHLINE STA 222+00 - SHEET X



AS-BUILT INFORMATION		BENCH MARKS	
NO.	FIELD NOTES	DATE	ACROSS TABLET STAMPED "14-112" WORK
1	BY AMARIE SURVEYING GROUP	DATE 3/18/04	INSPECTOR'S SIGNATURE
2	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
3	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
4	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
5	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
6	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
7	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
8	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
9	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
10	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
11	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
12	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
13	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
14	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
15	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
16	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
17	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
18	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
19	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
20	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
21	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
22	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
23	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
24	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
25	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
26	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
27	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
28	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
29	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
30	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
31	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
32	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
33	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
34	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
35	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
36	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
37	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
38	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
39	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
40	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
41	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
42	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
43	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
44	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
45	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
46	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
47	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
48	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
49	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
50	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
51	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
52	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
53	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
54	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
55	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
56	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
57	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
58	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
59	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
60	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
61	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
62	BY ASHNER INC.	DATE 3/18/04	CONTRACTOR
63	BY ASHNER INC.	DATE 3/18/04	INSPECTOR'S SIGNATURE
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