RECORD DRAWINGS

CONSTRUCTION PLANS

FOR

NIELSEN INDUSTRIAL PARK

BERNALILLO COUNTY, NEW MEXICO

INDEX TO DRAWINGS

RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, PA, 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 part of this project 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 Engineer 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 Will Plotner, Jr. NMPS number 14271.

Diane Hoelzer NMPE 11967

DIANE HOELZER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER

I, Diane Hoelzer, certify that this electronic version is identical to the original reproducible APPROVED FOR CONSTRUCTION drawings signed by me on 3-26 20 08

This set of drawings is accepted for RECORD purposes by _____ on _____, 2008.

SURVEYOR'S CERTIFICATION

I, WILL PLOTNER JR, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND 'AS-BUILT' SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWNINGS WAS ADDED BY ME OR UNDER MY SUPERVISION , AND THAT THIS 'AS-BUILT' INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS.

WILL PLOTNER JR, NMPS 14271 8/07/09

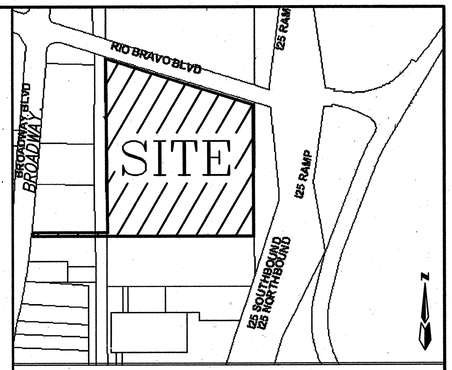
CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 6-2-10
ABCWUA.

PWCO 50051

APPROVAL: BERNALILLO COUNTY PUBLIC WORKS DIVISION DATE: 8/28/08
(STORM DRAIN AND ONSITE ROADS)

Roger Green, PE 10-1-08
Date
Albuquerque Bernalillo County Water Utility Authority



VICINITY MAP ZONE ATLAS # P-14
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY/COUNTY & NMDOT RIGHT-OF-WAY.
2. 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 NMDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. 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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE BERNALILLO COUNTY PUBLIC WORKS A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT. CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY TRAFFIC ENGINEER (848-1504) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. 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 INSURE 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 OF 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 TO COVER 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 HAVE BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. CONTRACTOR SHALL COORDINATE WITH THE ABCWUA WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY ABCWUA PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
12. FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
13. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT WITH OSHA 29 CFR 1926.650 SUBPART P.
14. ELECTRONIC MARKER DISKS (EMD) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
15. PRIVATE STREETS REQUIRE STREET NAME SIGNS, STOP SIGNS, AND ANY NECESSARY STRIPING (DEVELOPER'S RESPOSIBILITY).

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- [x] SIDEWALK 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.
- [x] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

DIANE HOELZER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER
REVISED 11-16-07 12-31-07 REV. 9-30-08

APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		
WATER/WASTEWATER	William J. Parker	10-1-08

APPROVED FOR CONSTRUCTION 10-1-08

CITY ENGINEER DATE

CITY PROJECT NO. 777081

SHEET 1 OF 29

A02jobs\A2138\PLANS\REVISED PLANS\A2138-Title.dwg\08-27-07\DER RFH

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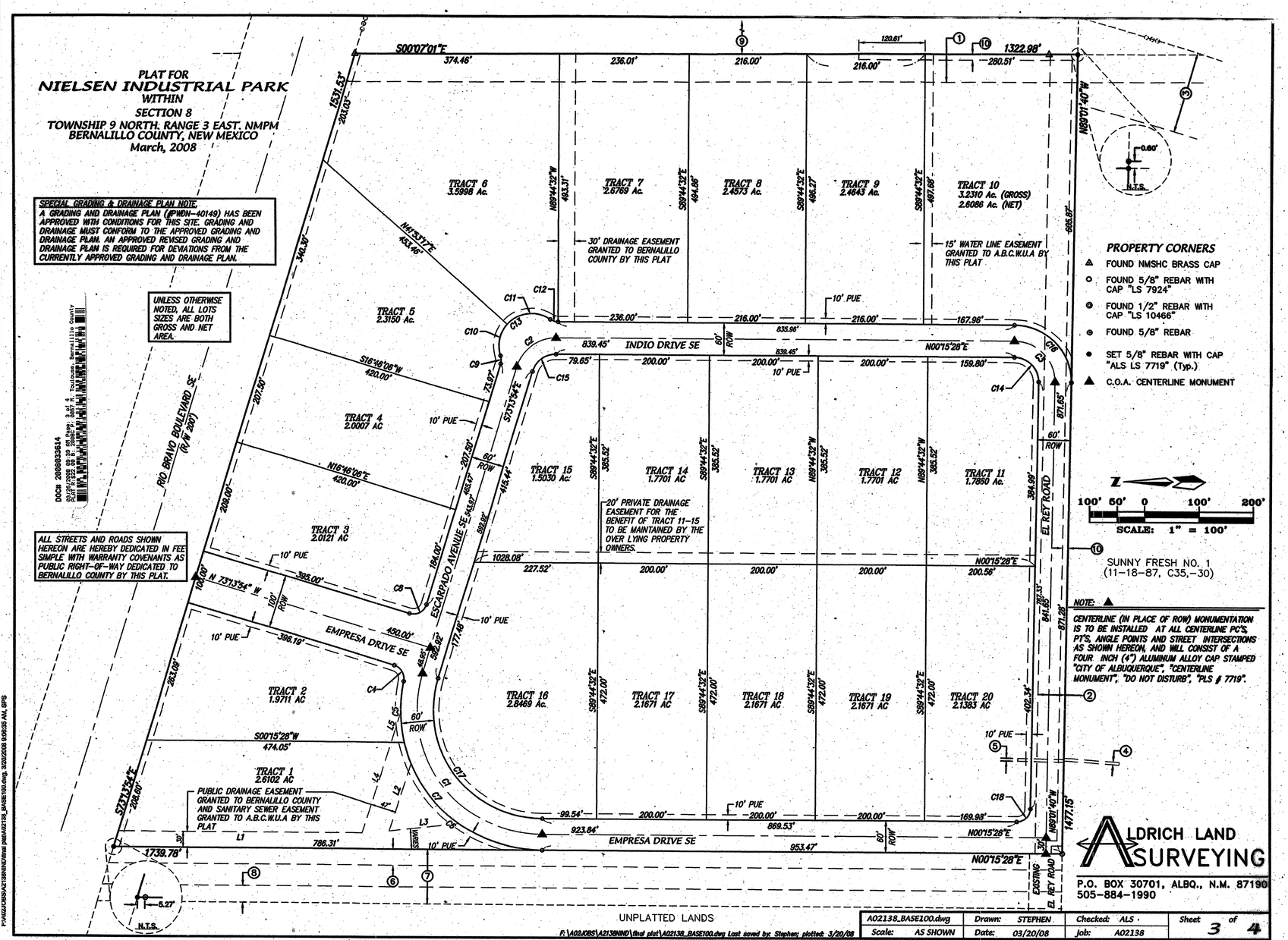
PLAT FOR
NIELSEN INDUSTRIAL PARK
WITHIN
SECTION 8
TOWNSHIP 9 NORTH, RANGE 3 EAST, NMPM
BERNALILLO COUNTY, NEW MEXICO
March, 2008

SPECIAL GRADING & DRAINAGE PLAN NOTE.
A GRADING AND DRAINAGE PLAN (#PWDH-40149) HAS BEEN APPROVED WITH CONDITIONS FOR THIS SITE. GRADING AND DRAINAGE MUST CONFORM TO THE APPROVED GRADING AND DRAINAGE PLAN. AN APPROVED REVISED GRADING AND DRAINAGE PLAN IS REQUIRED FOR DEVIATIONS FROM THE CURRENTLY APPROVED GRADING AND DRAINAGE PLAN.

UNLESS OTHERWISE NOTED, ALL LOTS SIZES ARE BOTH GROSS AND NET AREA.

ALL STREETS AND ROADS SHOWN HEREON ARE HEREBY DEDICATED IN FEE SIMPLE WITH WARRANTY COVENANTS AS PUBLIC RIGHT-OF-WAY DEDICATED TO BERNALILLO COUNTY BY THIS PLAT.



PROPERTY CORNERS
- FOUND NMSHC BRASS CAP
- FOUND 5/8" REBAR WITH CAP "LS 7924"
- FOUND 1/2" REBAR WITH CAP "LS 10466"
- FOUND 5/8" REBAR
- SET 5/8" REBAR WITH CAP "ALS LS 7719" (Typ.)
- C.O.A. CENTERLINE MONUMENT

NOTE:
CENTERLINE (IN PLACE OF ROW) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".

ALDRICH LAND SURVEYING
P.O. BOX 30701, ALBQ., N.M. 87190
505-884-1990

AO2138_BASE100.dwg	Drawn: STEPHEN	Checked: ALS	Sheet 3 of 4
Scale: AS SHOWN	Date: 03/20/08	Job: AO2138	

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PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of :

1. The PNM Electric Services Division for the installation, maintenance and service of overhead and underground electrical lines, transformers, poles and any other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical services.
2. The PNM Gas Services Division for installation, maintenance and services of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
3. Qwest for installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
4. Comcast cable for installation, maintenance and service of such lines, cable and other related equipment and facilities reasonably necessary to provide Cable TV service. Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate and maintain facilities for the purposes described above, together with free access to, from and over said easement, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electrical Safety Code caused by construction of pools, decking or any structures adjacent to within or near easements shown on this plat.

In approving this plat, the utility companies did not conduct a Title Search of the properties shown hereon. Consequently, the utility companies do not waive or release any easement or easement rights which may have been granted by prior plat, replat or other document and which are not shown on this plat. Easements for electric transformers/switchgears, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

PLAT FOR
NIELSEN INDUSTRIAL PARK
WITHIN
SECTION 8
TOWNSHIP 9 NORTH, RANGE 3 EAST, NMPM
BERNALILLO COUNTY, NEW MEXICO
August, 2007

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CH-BEARING	CH-DIST
C1	427.56	230.00	106°30'38"	308.07	S53°30'47"W	368.60
C2	96.20	75.00	73°29'22"	55.99	N36°29'13"W	89.74
C3	118.75	75.00	90°42'53"	75.94	N45°36'54"E	106.73
C4	36.98	25.00	84°45'22"	22.81	N59°06'47"E	33.70
C5	111.67	260.00	24°36'32"	56.71	S89°13'12"W	110.82
C6	347.86	260.00	76°39'27"	205.55	S38°35'12"W	322.49
C7	459.53	260.00	101°16'00"	316.90	S50°53'28"W	402.01
C8	39.27	25.00	90°00'00"	25.00	S28°13'54"E	35.36
C9	15.13	25.00	34°40'36"	7.81	N89°25'46"E	14.90
C10	62.62	60.00	59°47'47"	34.50	N78°00'37"W	59.82
C11	86.97	60.00	83°02'48"	53.13	N06°35'20"W	79.55
C12	15.13	25.00	34°40'36"	7.81	S17°35'46"W	14.90
C13	149.58	60.00	142°50'35"	178.51	N36°29'13"W	113.75
C14	71.45	45.00	90°58'20"	45.77	N45°29'10"E	64.18
C15	57.72	45.00	73°29'22"	33.60	N36°29'13"W	53.84
C16	166.24	105.00	90°42'53"	106.32	N45°36'54"E	149.42
C17	371.79	200.00	106°30'38"	267.88	S53°30'47"W	320.52
C18	38.96	25.00	89°17'07"	24.69	S44°23'06"E	35.13

LINE TABLE

LINE	BEARING	LENGTH
L1	N00°15'28"E	446.85
L2	N72°20'06"W	132.57
L3	S06°24'14"E	128.67
L4	S72°20'06"E	178.16
L5	S72°20'06"E	57.88

"Drainage Easement Dedication - Dedication to the County of Bernalillo, its successors and assigns, of the lands, right-of-way, and easements designated herein as 'Drainage Easement' is with full and free consent and in accordance with the desire of the undersigned owner(s), their successors, assigns, transferees, heirs, and devisees. This dedication is for drainage, flood control, conveyance of storm water, and the construction, operation and maintenance of, and access to such facilities. Except by the written approval of the County Engineer, no fence, wall, building or other obstruction may be placed or maintained in said easements, and there shall be no alterations of the grades or contours in said easements. The granting of easements shall not obligate the County of Bernalillo to maintain natural arroyos, drainage channels, or facilities unless otherwise agreed to in writing by the County. The granting of this easement shall not require the protection of property lying outside of the easements granted. Safe locations for structures built on lands adjacent to the easement dedicated herein may be substantially outside the area described by the easements. Subject to the rules, regulations, and ordinances of Bernalillo County, any portion of any lands, right-of-way, or easements dedicated or granted herein may be vacated to the extent said portion is declared unnecessary for flood control and drainage by the County Engineer of Bernalillo County."

DOCH 2008033614
03/26/2008 09:39 AM Page: 3 of 4
PLAT R:22.00 W:0.00 D:0.00 P:0.00
Toulouse, Bernalillo County

ALDRICH LAND SURVEYING
P.O. BOX 30701, ALBQ., N.M. 87190
505-884-1990

AO2138_BASE100.dwg	Drawn: RICHARD	Checked: ALS	Sheet 4 of 4
Scale: as shown	Date: 02/27/08	Job: AO2138	

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RECORD DRAWINGS

FINAL PLAT
SHEET 3 OF 29

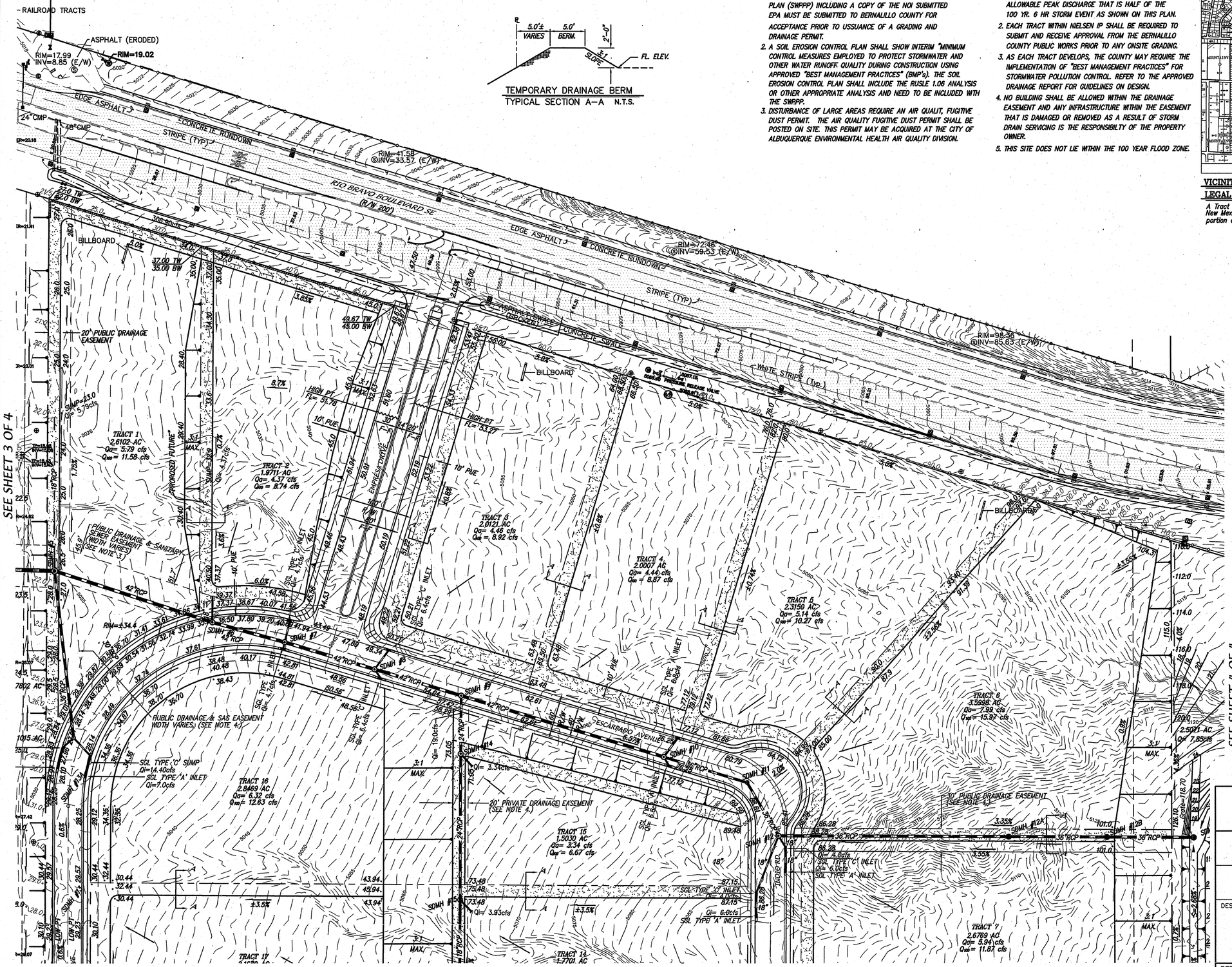
RECORD DRAWINGS

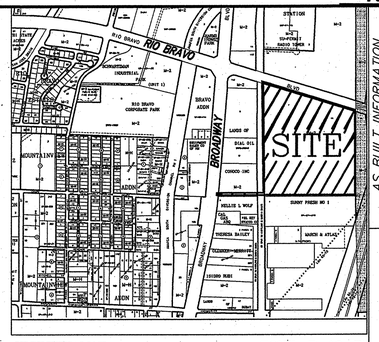
CONSTRUCTION DRAINAGE NOTES:

1. A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING A COPY OF THE NOI SUBMITTED EPA MUST BE SUBMITTED TO BERNALILLO COUNTY FOR ACCEPTANCE PRIOR TO ISSUANCE OF A GRADING AND DRAINAGE PERMIT.
2. A SOIL EROSION CONTROL PLAN SHALL SHOW INTERIM "MINIMUM CONTROL MEASURES EMPLOYED TO PROTECT STORMWATER AND OTHER WATER RUNOFF QUALITY DURING CONSTRUCTION USING APPROVED "BEST MANAGEMENT PRACTICES" (BMP'S). THE SOIL EROSION CONTROL PLAN SHALL INCLUDE THE RUSLE 1.06 ANALYSIS OR OTHER APPROPRIATE ANALYSIS AND NEED TO BE INCLUDED WITH THE SWPPP.
3. DISTURBANCE OF LARGE AREAS REQUIRE AN AIR QUALIT, FUGITIVE DUST PERMIT. THE AIR QUALITY FUGITVE DUST PERMIT SHALL BE POSTED ON SITE. THIS PERMIT MAY BE ACQUIRED AT THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH AIR QUALITY DIVISION.

GENERAL DRAINAGE NOTES:

1. RUNOFF FROM EACH TRACT SHALL BE RESTRICTED TO AN ALLOWABLE PEAK DISCHARGE THAT IS HALF OF THE 100 YR. 6 HR STORM EVENT AS SHOWN ON THIS PLAN.
2. EACH TRACT WITHIN NIELSEN IP SHALL BE REQUIRED TO SUBMIT AND RECEIVE APPROVAL FROM THE BERNALILLO COUNTY PUBLIC WORKS PRIOR TO ANY ONSITE GRADING.
3. AS EACH TRACT DEVELOPS, THE COUNTY MAY REQUIRE THE IMPLEMENTATION OF "BEST MANAGEMENT PRACTICES" FOR STORMWATER POLLUTION CONTROL. REFER TO THE APPROVED DRAINAGE REPORT FOR GUIDELINES ON DESIGN.
4. NO BUILDING SHALL BE ALLOWED WITHIN THE DRAINAGE EASEMENT AND ANY INFRASTRUCTURE WITHIN THE EASEMENT THAT IS DAMAGED OR REMOVED AS A RESULT OF STORM DRAIN SERVICING IS THE RESPONSIBILTY OF THE PROPERTY OWNER.
5. THIS SITE DOES NOT LIE WITHIN THE 100 YEAR FLOOD ZONE.





VICINITY MAP ZONE: P-13-Z

LEGAL DESRIPTION

A Tract of land situate in Section 8, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico, being a portion of TRACT "AA" LANDS OF SCHWARTZMAN PACKING COMPANY.

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING SPOT ELEVATIONS
- EXISTING GUARDRAIL
- EXISTING CURB
- EXISTING CONCRETE/SIDEWALK
- EXISTING WALL OR HEAD WALL
- EXISTING POST
- EXISTING SIGN
- EXISTING SAS MANHOLE
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING ELECTRIC SERVICE/PEDESTAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING CABLE MARKER
- EXISTING FIBER OPTIC MARKER
- EXISTING GAS VALVE
- EXISTING GAS MARKER
- EXISTING PETRO PIPELINE MARKER
- EXISTING GUY WIRE
- EXISTING DROP INLET
- EXISTING STORM DRAIN MANHOLE
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC SIGNAL PULLBOX
- EXISTING UTILITY PULLBOX
- EXISTING TRAFFIC SIGNAL
- PROPOSED LOT LINES
- PROPOSED CURB & GUTTER
- PROPOSED PROPERY LINE / R-O-W
- PROPOSED CENTERLINE
- PROPOSED EASEMENT
- PROPOSED TEMPORARY BERM
- 00.00 PROPOSED SPOT ELEVATION
- PROPOSED WATER BLOCK
- 0.00% PROPOSED FLOWLINE DIRECTION
- Q100= X.X cfs 100 YR PEAK DISCHARGE
- Qa=X.X cfs ALLOWABLE DISCHARGE
- Qi=X.X cfs DISCHARGE TO INLET
- x96.0 ESTIMATED EXISTING SPOT

N

60' 30' 0 60' 120'

SCALE: 1" = 60'

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTED BY DATE
AS BUILT BY Cartesian Surveys Inc. DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14" X=381,735.29, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOBLITZER NEW MEXICO 11982 LICENSED PROFESSIONAL ENGINEER 11-15-07

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		DATE
DESIGNED BY	DLH	11/07
DRAWN BY	ACH	11/07
CHECKED BY	DMG	11/07

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK GRADING & DRAINAGE PLAN

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

BERNALILLO COUNTY PERMIT NO.	ZONE MAP NO.	SHEET	OF
40149	P-14-Z	4	29

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RECORD DRAWINGS

LEGEND

EXISTING CONTOUR MAJOR
EXISTING SPOT ELEVATIONS
EXISTING GUARDRAIL
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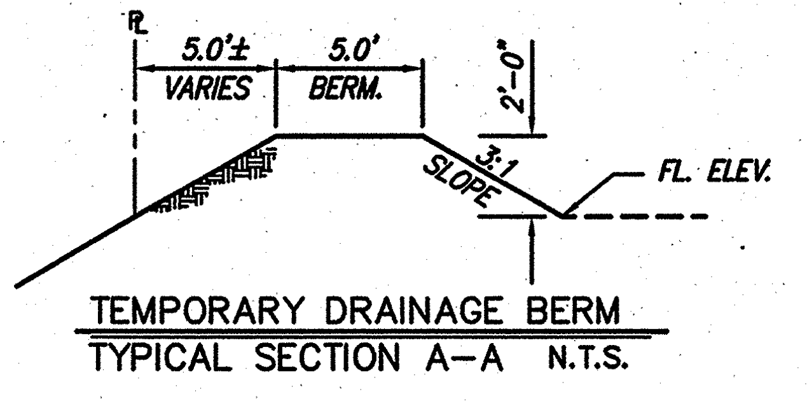
EXISTING STORM DRAIN MANHOLE
EXISTING WATER MANHOLE
EXISTING FIRE HYDRANT
EXISTING TRAFFIC SIGNAL PULLBOX
EXISTING UTILITY PULLBOX
EXISTING TRAFFIC SIGNAL

PROPOSED LOTLINES
PROPOSED CURB & GUTTER
PROPOSED PROPERY LINE / R/W
PROPOSED CENTERLINE
PROPOSED EASEMENT
PROPOSED BERM
00.00 PROPOSED SPOT ELEVATION
PROPOSED WATER BLOCK
0.00% PROPOSED FLOWLINE DIRECTION
Q_{100}= X.X cfs 100 YR PEAK DISCHARGE
Qa=X.X cfs ALLOWABLE DISCHARGE
Qi=X.X cfs DISCHARGE TO INLET



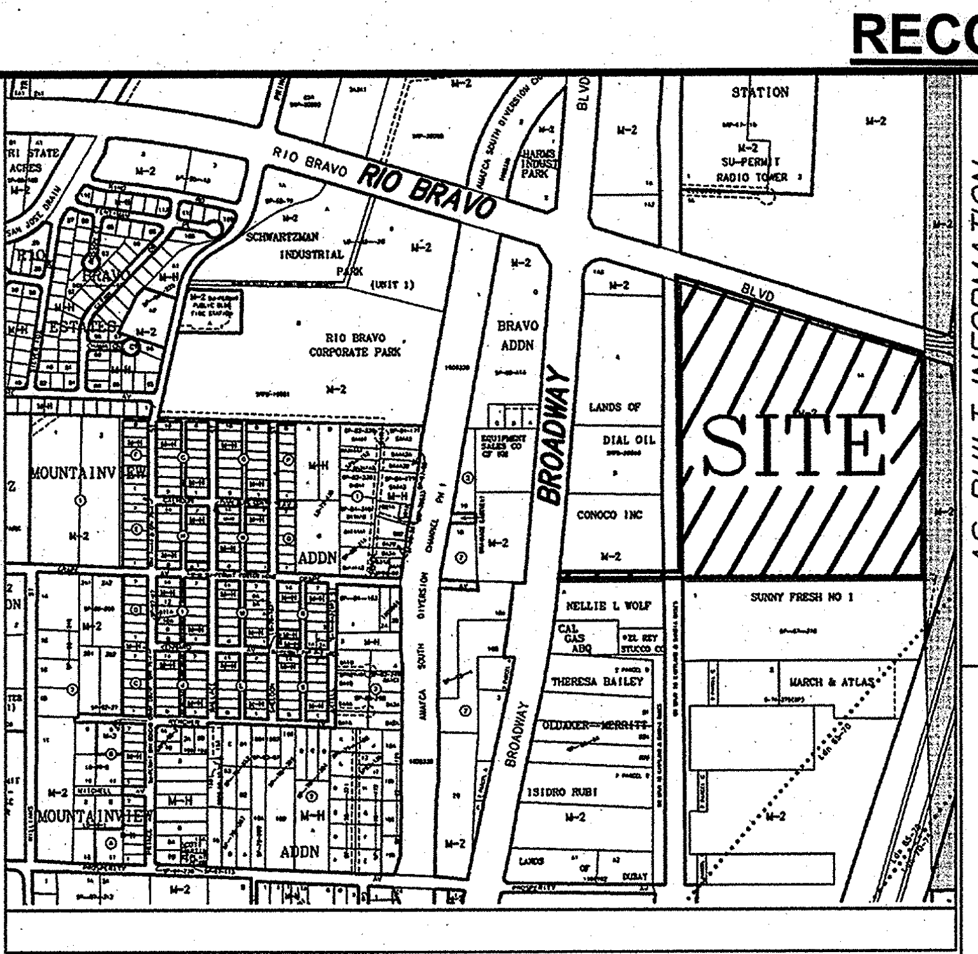
TEMPORARY DRAINAGE BERM
TYPICAL SECTION A-A N.T.S.

CONSTRUCTION DRAINAGE NOTES:

1. A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING A COPY OF THE NOI SUBMITTED EPA MUST BE SUBMITTED TO BERNALILLO COUNTY FOR ACCEPTANCE PRIOR TO USSUANCE OF A GRADING AND DRAINAGE PERMIT.
2. A SOIL EROSION CONTROL PLAN SHALL SHOW INTERIM "MINIMUM CONTROL MEASURES EMPLOYED TO PROTECT STORMWATER AND OTHER WATER RUNOFF QUALITY DURING CONSTRUCTION USING APPROVED "BEST MANAGEMENT PRACTICES" (BMP's). THE SOIL EROSION CONTROL PLAN SHALL INCLUDE THE RUSLE 1.06 ANALYSIS OR OTHER APPROPRIATE ANALYSIS AND NEED TO BE INCLUDED WITH THE SWPPP.
3. DISTURBANCE OF LARGE AREAS REQUIRE AN AIR QUALIT, FUGITIVE DUST PERMIT. THE AIR QUALITY FUGITIVE DUST PERMIT SHALL BE POSTED ON SITE. THIS PERMIT MAY BE ACQUIRED AT THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH AIR QUALITY DIVISION.

GENERAL DRAINAGE NOTES:

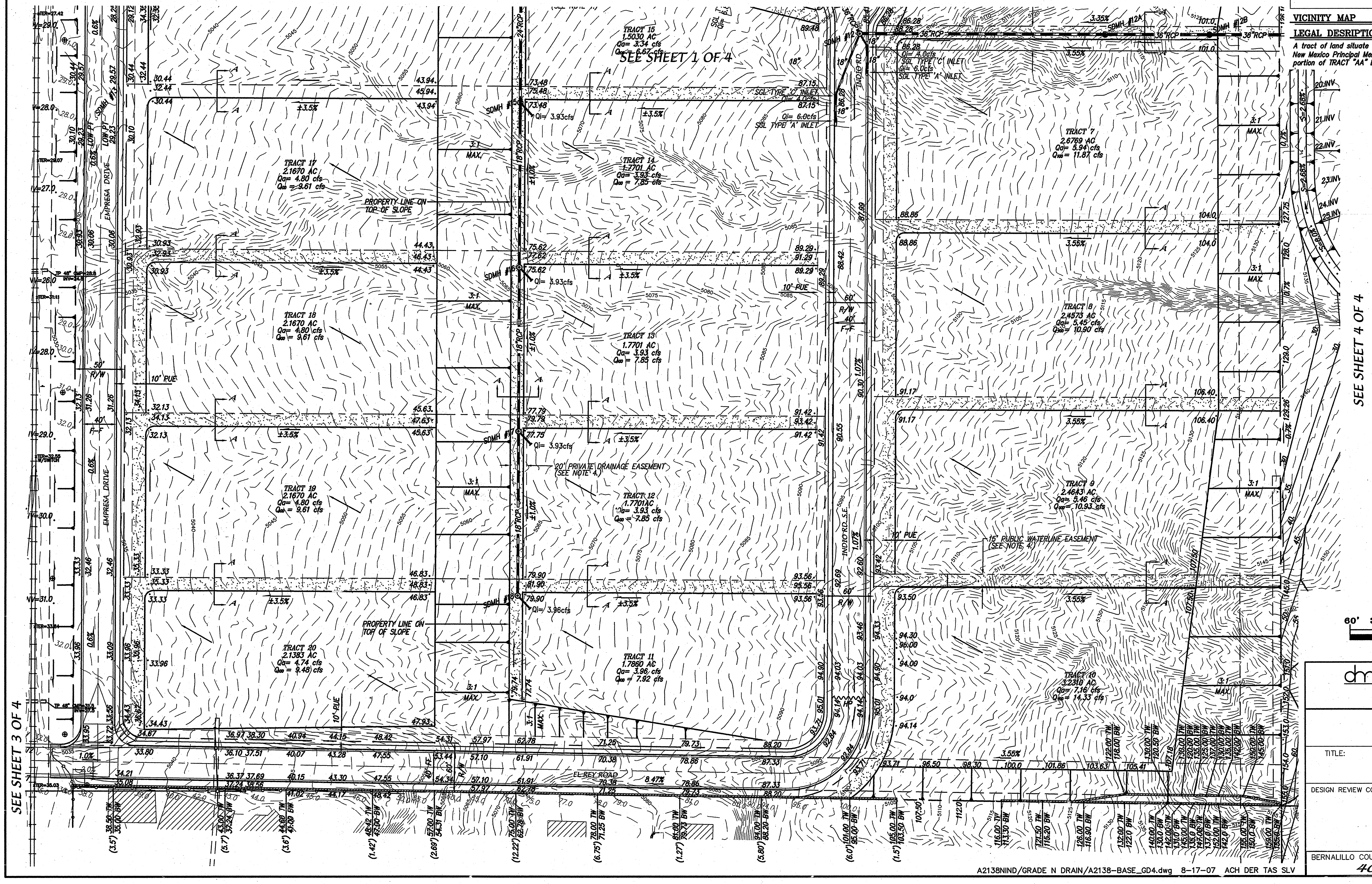
1. RUNOFF FROM EACH TRACT SHALL BE RESTRICTED TO AN ALLOWABLE PEAK DISCHARGE THAT IS HALF OF THE 100 YR. 6 HR STORM EVENT AS SHOWN ON THIS PLAN.
2. EACH TRACT WITHIN NIELSEN IP SHALL BE REQUIRED TO SUBMIT AND RECEIVE APPROVAL FROM THE BERNALILLO COUNTY PUBLIC WORKS PRIOR TO ANY ONSITE GRADING.
3. AS EACH TRACT DEVELOPS, THE COUNTY MAY REQUIRE THE IMPLEMENTATION OF "BEST MANAGEMENT PRACTICES" FOR STORMWATER POLLUTION CONTROL. REFER TO THE APPROVED DRAINAGE REPORT FOR GUIDELINES ON DESIGN.
4. NO BUILDING SHALL BE ALLOWED WITHIN THE DRAINAGE EASEMENT AND ANY INFRASTRUCTURE WITHIN THE EASEMENT THAT IS DAMAGED OR REMOVED AS A RESULT OF STORM DRAIN SERVICING IS THE RESPONSIBILTY OF THE PROPERTY OWNER.
5. THIS SITE DOES NOT LIE WITHIN THE 100 YEAR FLOOD ZONE.



VICINITY MAP ZONE: P-13-Z

LEGAL DESRIPTION

A tract of land situate in Section 8, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico being a portion of TRACT "AA" LANDS OF SCHWARTZMAN PACKING COMPANY.



60' 30' 0 60' 120'
SCALE: 1" = 60'

ENGINEER'S SEAL
DIANE HOELZER 11957
11-15-07

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14". X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

DESIGNED BY DLH DATE 11/04
DRAWN BY ACH DATE 11/04
CHECKED BY DMG DATE 11/04

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE: *NIELSEN INDUSTRIAL GRADING & DRAINAGE PLAN*

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

BERNALILLO COUNTY PERMIT NO.	ZONE MAP NO.	SHEET	OF
40149	P-14-Z	5	29

A2138NIND/GRADE N DRAIN/A2138-BASE_GD4.dwg 8-17-07 ACH DER TAS SLV

RECORD DRAWINGS

LEGEND

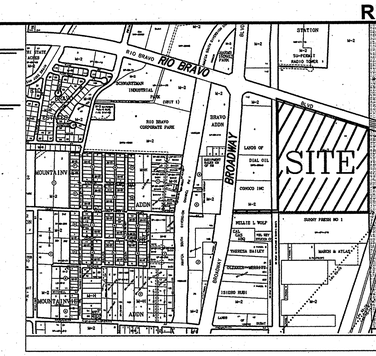
- EXISTING CONTOUR MAJOR
- EXISTING SPOT ELEVATIONS
- EXISTING GUARDRAIL
- EXISTING CURB
- EXISTING CONCRETE/SIDEWALK
- EXISTING WALL OR HEAD WALL
- EXISTING POST
- EXISTING SIGN
- EXISTING SAS MANHOLE
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING ELECTRIC SERVICE/PEDESTAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING CABLE MARKER
- EXISTING FIBER OPTIC MARKER
- EXISTING GAS VALVE
- EXISTING GAS MARKER
- EXISTING PETRO PIPELINE MARKER
- EXISTING GUY WIRE
- EXISTING DROP INLET
- EXISTING STORM DRAIN MANHOLE
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC SIGNAL PULLBOX
- EXISTING UTILITY PULLBOX
- EXISTING TRAFFIC SIGNAL
- PROPOSED LOTLINES
- PROPOSED CURB & GUTTER
- PROPOSED PROPERY LINE / R-O-W
- PROPOSED CENTERLINE
- PROPOSED EASEMENT
- PROPOSED BERM
- 00.00 PROPOSED SPOT ELEVATION
- PROPOSED WATER BLOCK
- 0.00% PROPOSED FLOWLINE DIRECTION

GENERAL DRAINAGE NOTES:

REFER TO SHEET 1 OF 4

CONSTRUCTION DRAINAGE NOTES:

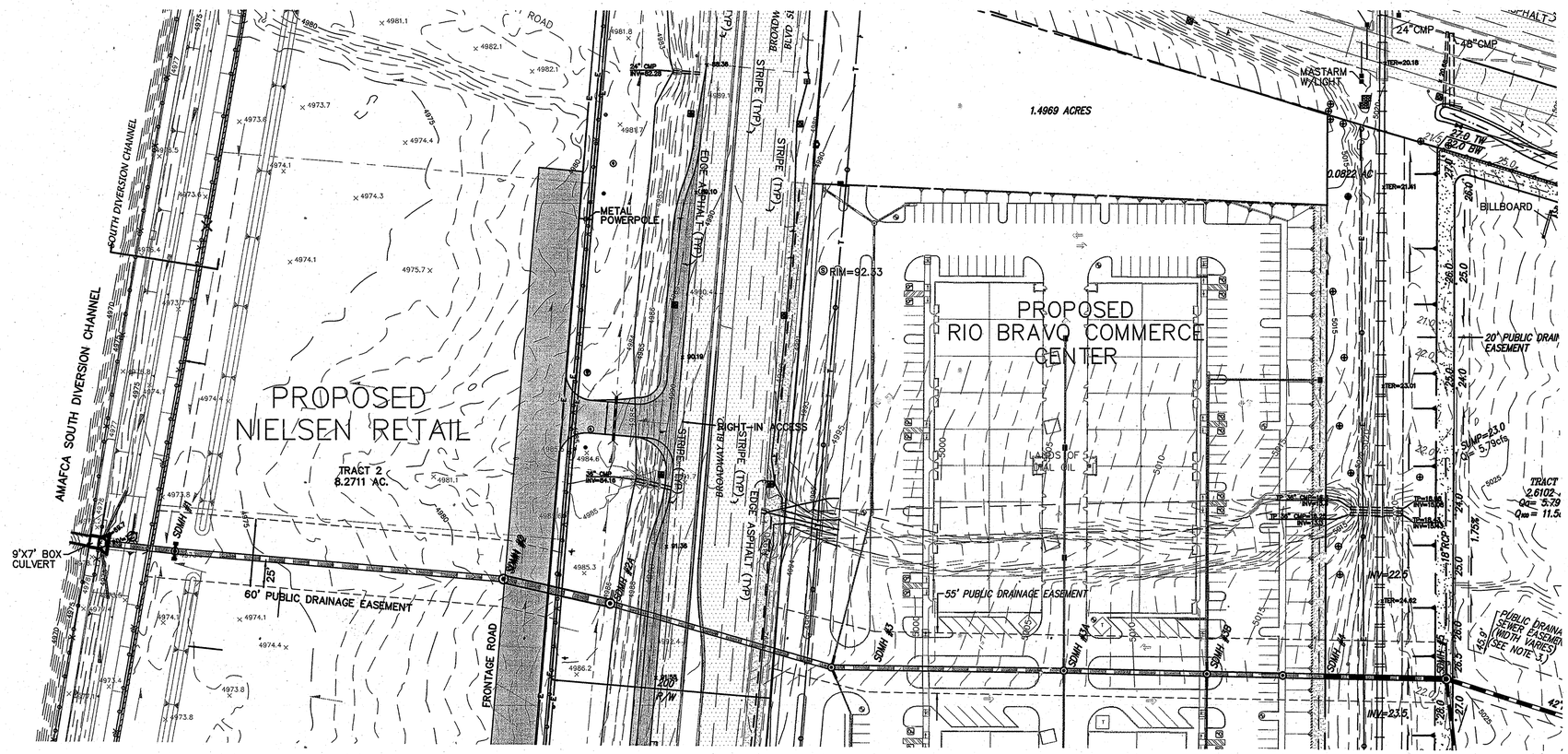
REFER TO SHEET 1 OF 4

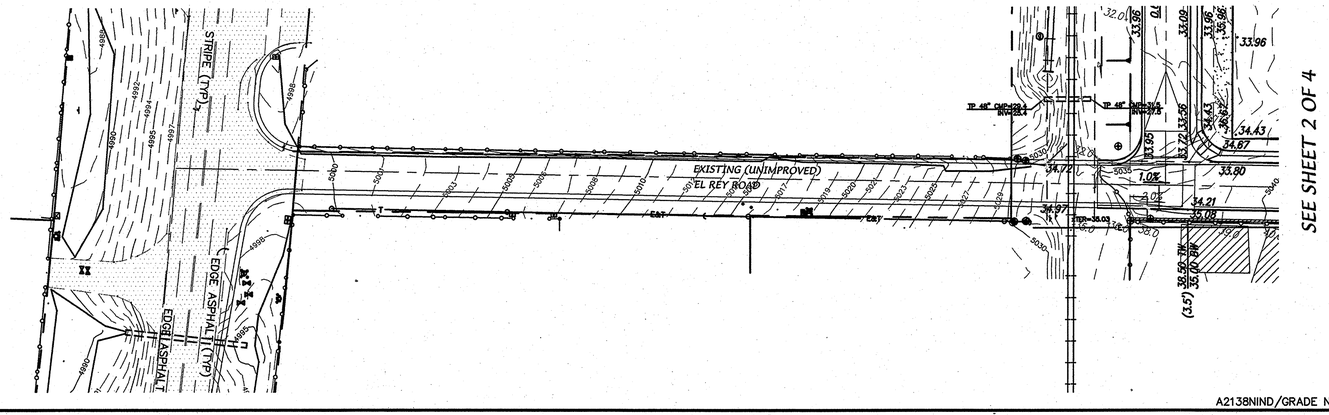


VICINITY MAP ZONE: P-13-Z

LEGAL DESRIPTION

A tract of land situate in Section 8, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico being a portion of TRACT "AA" LANDS OF SCHWARTZMAN PACKING COMPANY





SCALE: 1" = 60'

A2138NIND/GRADE N DRAIN/A2138-BASE_GD5.dwg 8-17-07 ACH DER TAS SLV DLH

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY: Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY: Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP. STAMPED "2-N14", X=391,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 10987 LICENSED PROFESSIONAL ENGINEER
11-15-07

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY DLH DATE 11/04
DRAWN BY ACH DATE 11/04
CHECKED BY DMG DATE 11/04

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
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COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL GRADING & DRAINAGE PLAN

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

BERNALILLO COUNTY PERMIT NO.	ZONE MAP NO.	SHEET	OF
40149	P-14-Z	6	29

RECORD DRAWINGS

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING SPOT ELEVATIONS
- EXISTING GUARDRAIL
- EXISTING CURB
- EXISTING CONCRETE/SIDEWALK
- EXISTING WALL OR HEAD WALL
- EXISTING POST
- EXISTING SIGN
- EXISTING SAS MANHOLE
- EXISTING WATER VALVE
- EXISTING WATER METER
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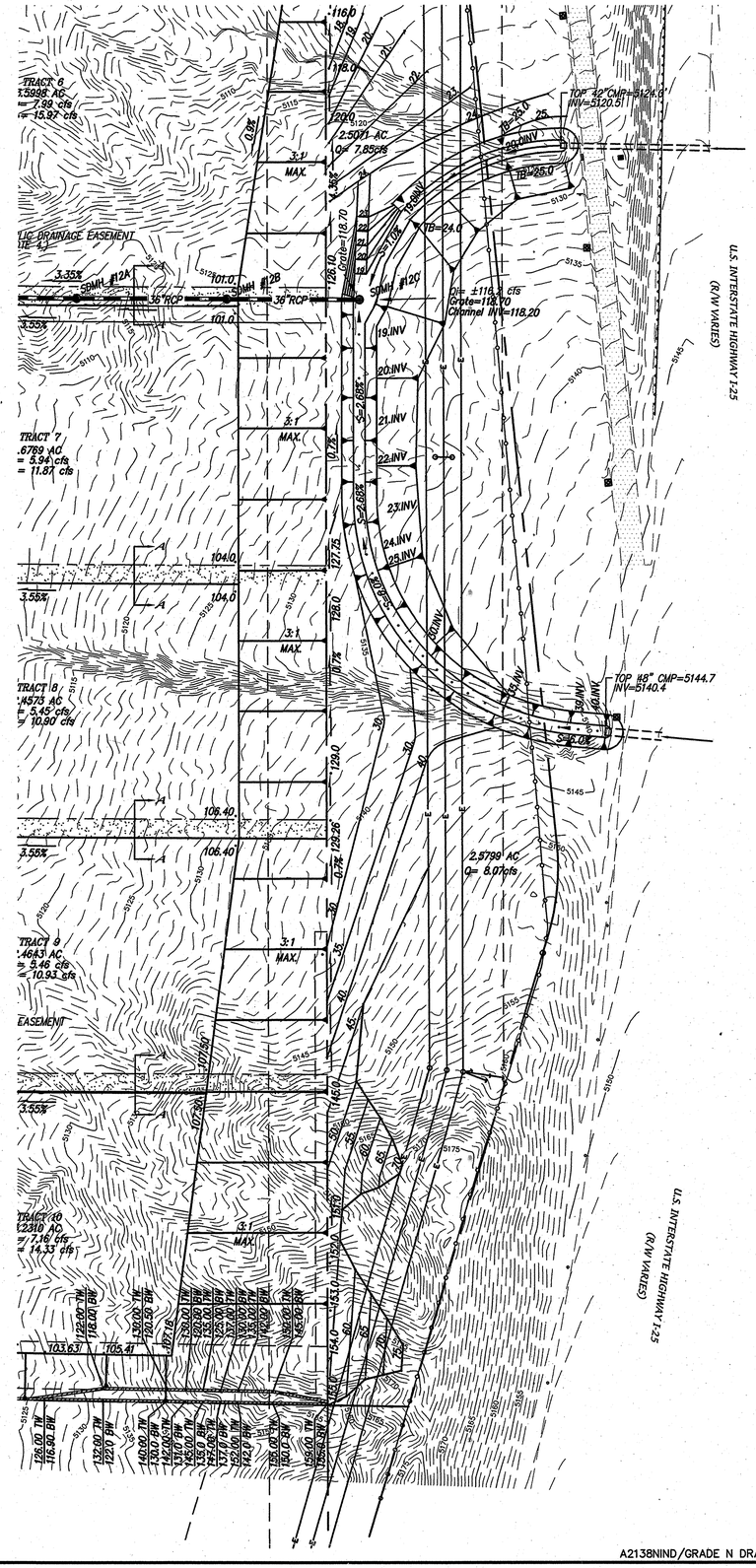
- PROPOSED EASEMENT
- PROPOSED BERM
- 00.00 PROPOSED SPOT ELEVATION
- PROPOSED WATER BLOCK
- 0.00% PROPOSED FLOWLINE DIRECTION

SEE SHEET 2 OF 4



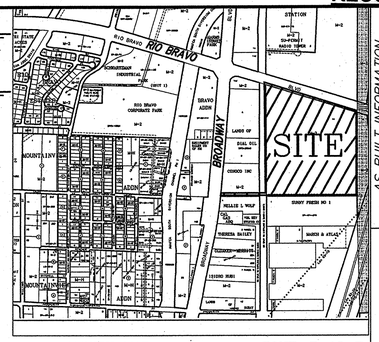
SEE SHEET 1 OF 4

GENERAL DRAINAGE NOTES:

REFER TO SHEET 1 OF 4.

CONSTRUCTION DRAINAGE NOTES:

REFER TO SHEET 1 OF 4.



VICINITY MAP ZONE: P-13-Z

LEGAL DESRIPTION

A tract of land situate in Section 8, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico being a portion of TRACT "AA" LANDS OF SCHWARTZMAN PACKING COMPANY

AS BUILT INFORMATION

CONTRACTOR
STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S CHANGES BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP. STAMPED "2-N14". X=381,735.28, Y=1,467,201.241 (NAD 1927) ELE(=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DAVID MOELZER NEW MEXICO 11987 LICENSED PROFESSIONAL ENGINEER 11-15-07

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		
DESIGNED BY	DLH	DATE 11/04
DRAWN BY	ACH	DATE 11/04
CHECKED BY	DMG	DATE 11/04

N

60' 30' 0 60' 120'

SCALE: 1" = 60'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE:
NIELSEN INDUSTRIAL
GRADING & DRAINAGE PLAN

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

BERNALILLO COUNTY PERMIT NO.	ZONE MAP NO.	SHEET	OF
40149	P-14-Z	7	29

A2138NIND/GRADE N DRAIN/A2138-BASE_GD5.dwg 8-17-07 ACH DER TAS SLV DLH

F:\AUTOCAD\A2138NIND\GRADE N DRAIN\A2138-BASE_GD5.dwg, 11/15/2007 1:58:19 PM, James

RECORD DRAWINGS

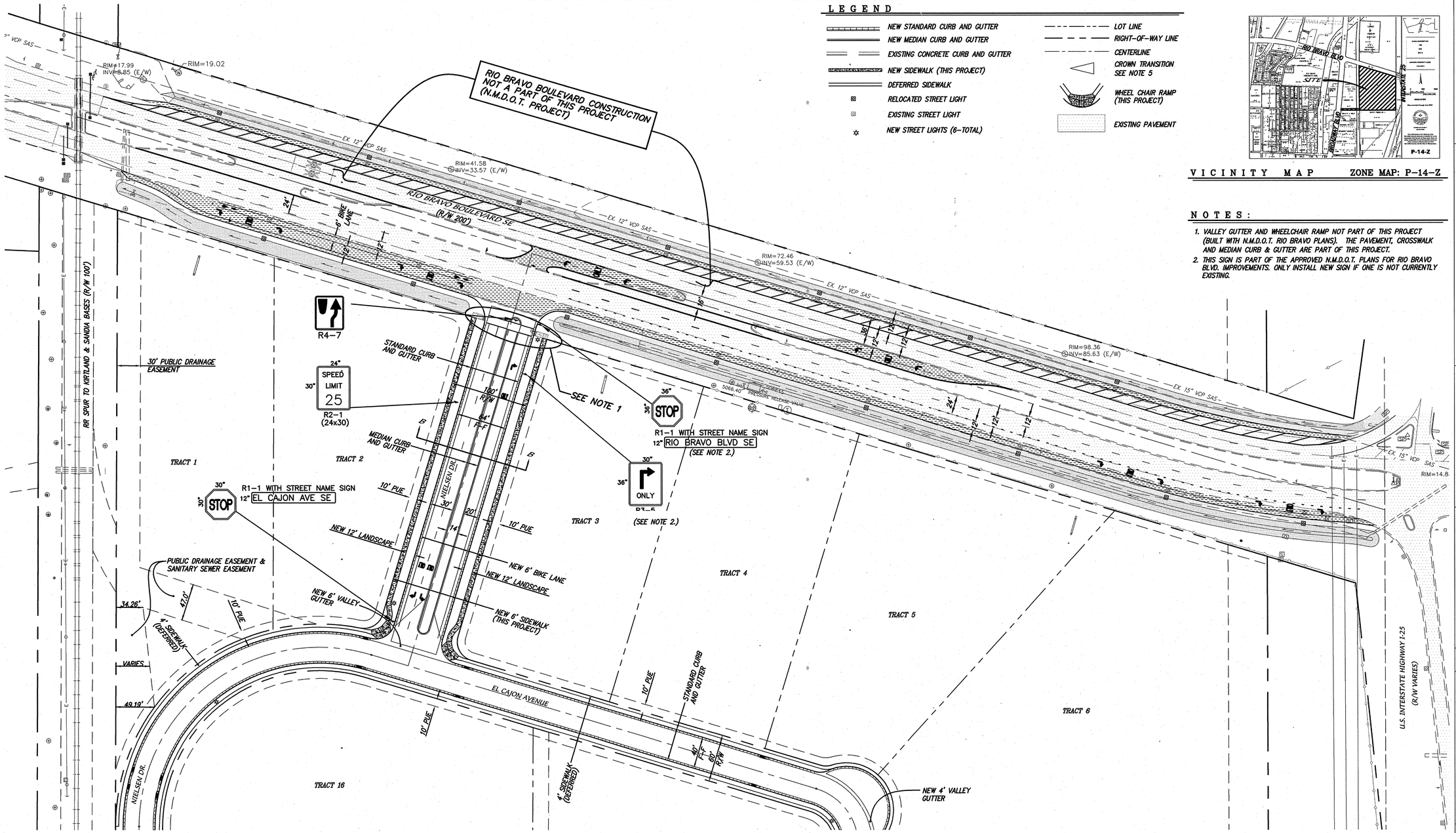
LEGEND

- NEW STANDARD CURB AND GUTTER
- NEW MEDIAN CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- NEW SIDEWALK (THIS PROJECT)
- DEFERRED SIDEWALK
- RELOCATED STREET LIGHT
- EXISTING STREET LIGHT
- NEW STREET LIGHTS (6-TOTAL)
- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- CROWN TRANSITION SEE NOTE 5
- WHEEL CHAIR RAMP (THIS PROJECT)
- EXISTING PAVEMENT

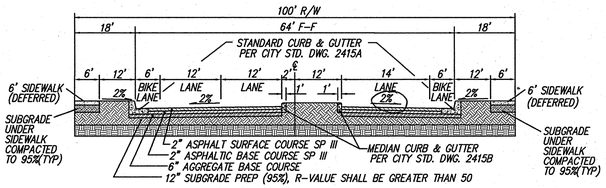
VICINITY MAP ZONE MAP: P-14-Z

NOTES:

1. VALLEY GUTTER AND WHEELCHAIR RAMP NOT PART OF THIS PROJECT (BUILT WITH N.M.D.O.T. RIO BRAVO PLANS). THE PAVEMENT, CROSSWALK AND MEDIAN CURB & GUTTER ARE PART OF THIS PROJECT.
2. THIS SIGN IS PART OF THE APPROVED N.M.D.O.T. PLANS FOR RIO BRAVO BLVD. IMPROVEMENTS. ONLY INSTALL NEW SIGN IF ONE IS NOT CURRENTLY EXISTING.

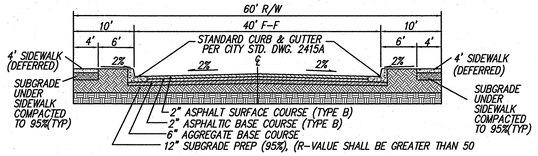


SEE SHEET 9 OF 28



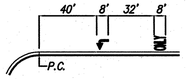
NIELSEN DRIVE 64' F-F SECTION B-B

NOT TO SCALE



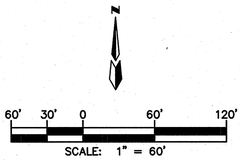
TYPICAL 40' F-F STREET SECTION

NOT TO SCALE



TURN LANE MARKING SPACING

N.T.S.



AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	Cartesian Surveys Inc.
ACCEPTANCE BY	
FIELD VERIFICATION BY	Cartesian Surveys Inc.
DRAWINGS CORRECTED BY	

MICRO-FILM INFORMATION

RECORDED BY	
NO.	

BENCH MARKS

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 11987 PROFESSIONAL ENGINEER 5-2-08

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK MASTER PAVING PLAN

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

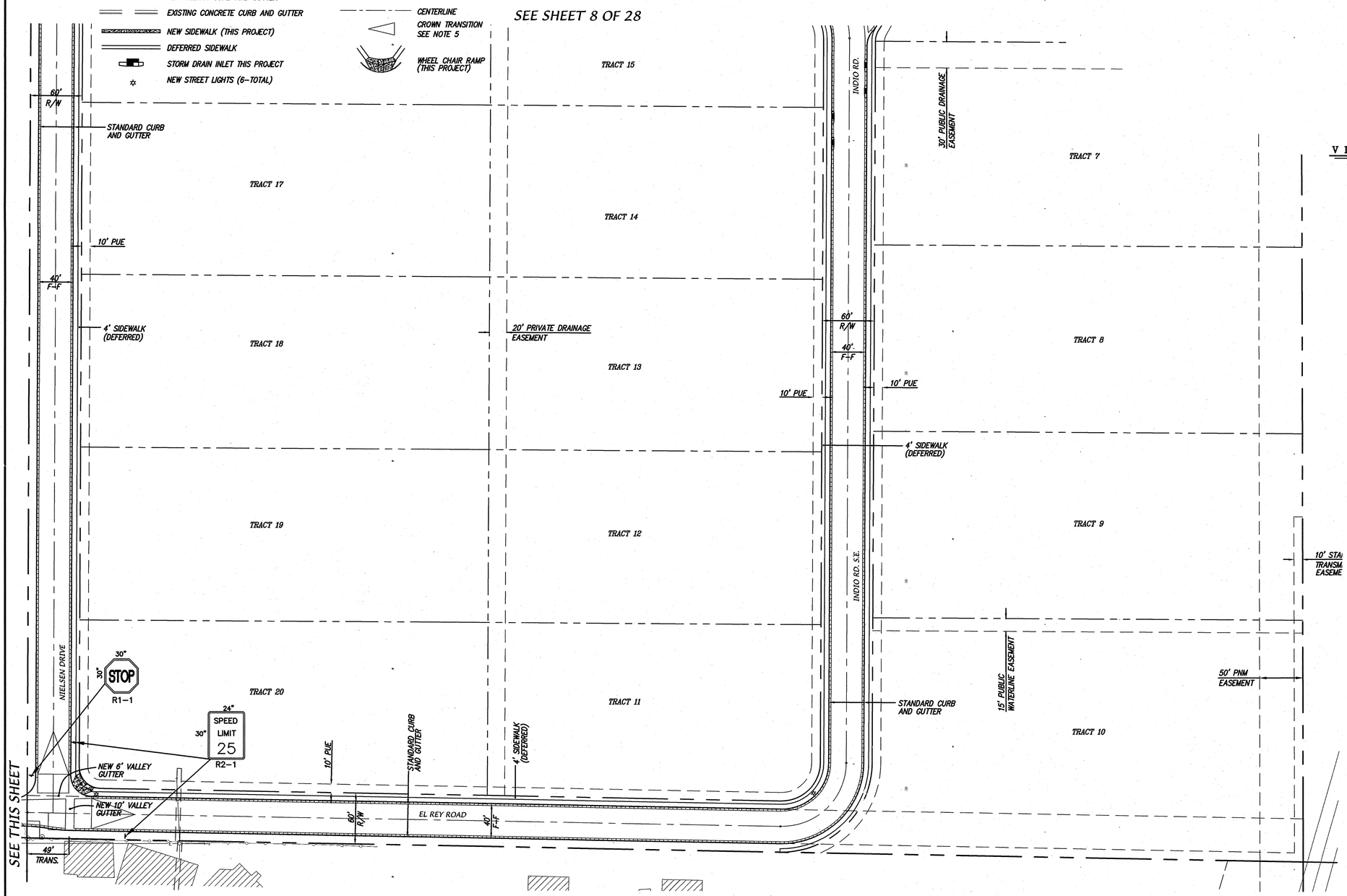
BERNALILLO COUNTY PROJECT NO.	ZONE MAP NO.	SHEET	OF
50051	P-14-Z	8	29

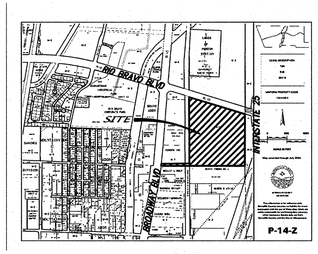
2138NIND/PLANS/REVISED-PLANS/A2138MPAV.dwg/ 2/20/2008 KJS ACH SLV DER RFH

RECORD DRAWINGS

LEGEND

- NEW STANDARD CURB AND GUTTER
- NEW MEDIAN CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- NEW SIDEWALK (THIS PROJECT)
- DEFERRED SIDEWALK
- STORM DRAIN INLET THIS PROJECT
- NEW STREET LIGHTS (6-TOTAL)
- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- CROWN TRANSITION SEE NOTE 5
- WHEEL CHAIR RAMP (THIS PROJECT)





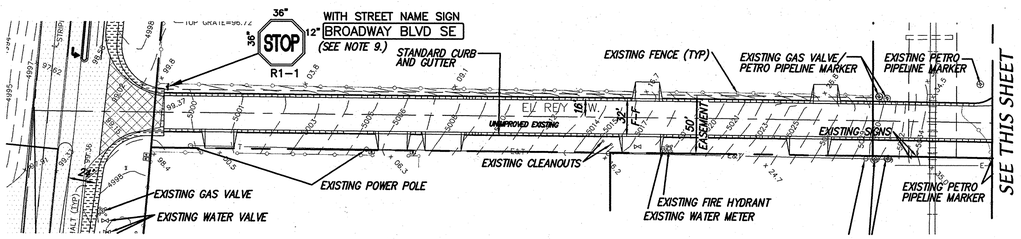
VICINITY MAP ZONE MAP: P-14-Z

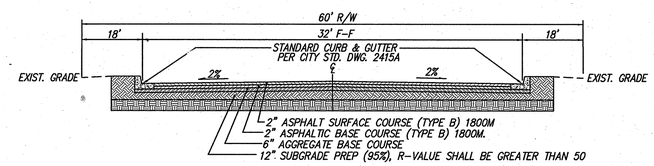
NOTES

1. ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2430.
2. ALL 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420.
3. ALL HANDICAP RAMPS ARE PER COA DETAIL 2441, CASE II
4. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET PER C.O.A. STD DETAIL #2401.
5. ALL 10' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2422.
6. SOIL NOT HAVING THE MINIMUM R-VALUE OF 50 FOR STREETS SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED, BY THE CONTRACTOR, WITH SUITABLE MATERIAL, OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.
7. ALL BULLNOSES TO BE PAINTED REFLECTORIZED YELLOW
8. ALL 4' VALLEY GUTTERS PER COA STD. DWG 2421
9. THIS STOP SIGN IS PART OF THE APPROVED N.M.D.O.T. PLANS FOR BROADWAY BLVD. IMPROVEMENTS. ONLY INSTALL NEW STOP SIGN IF ONE IS NOT CURRENTLY EXISTING.

N

SCALE: 1" = 60'





TYPICAL EL REY RD. STREET SECTION

NOT TO SCALE

2138NIND/PLANS/REVISED-PLANS/A2138MPAV.dwg/08-27-07 KJS SLV DER RFH

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc.
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY Cartesian Surveys Inc.
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS

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SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 10897 LICENSED PROFESSIONAL ENGINEER 8-27-07

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
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BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK MASTER PAVING PLAN

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

BERNALILLO COUNTY PROJECT NO.	ZONE MAP NO.	SHEET	OF
50051	P-14-Z	9	29

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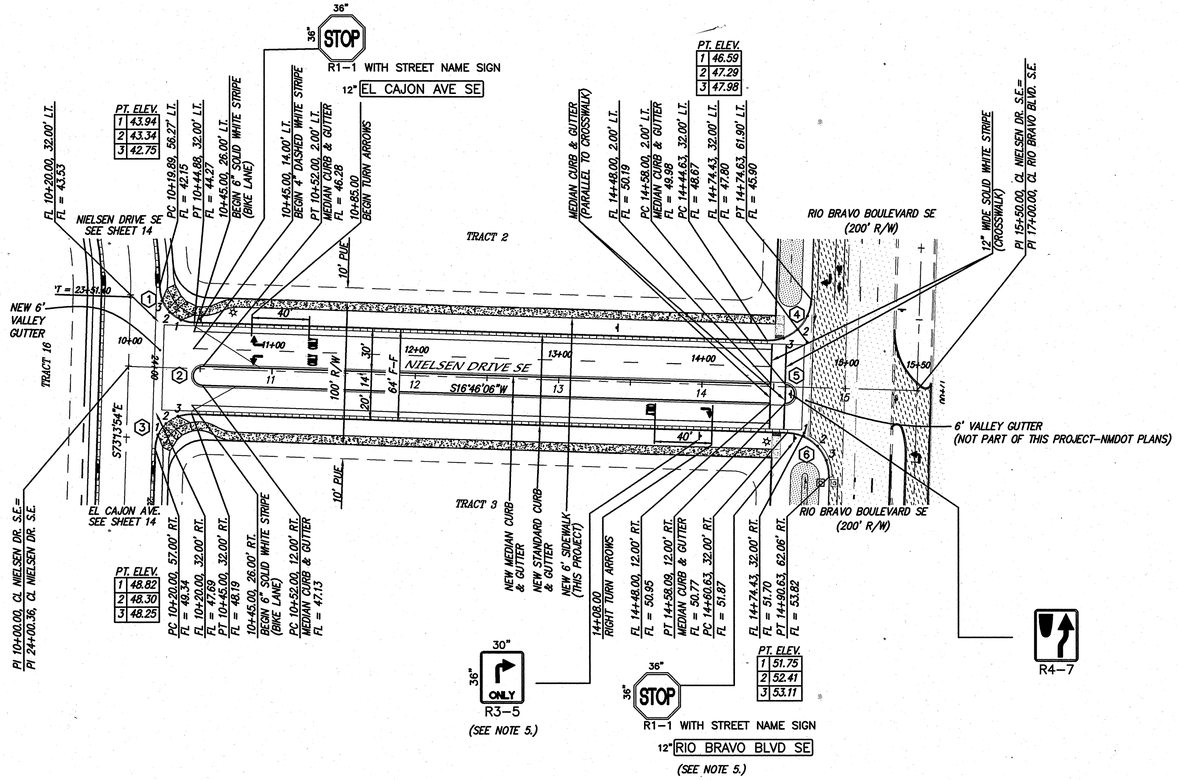
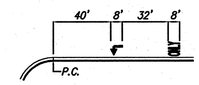
RECORD DRAWINGS





TURN LANE MARKING SPACING
N.T.S.

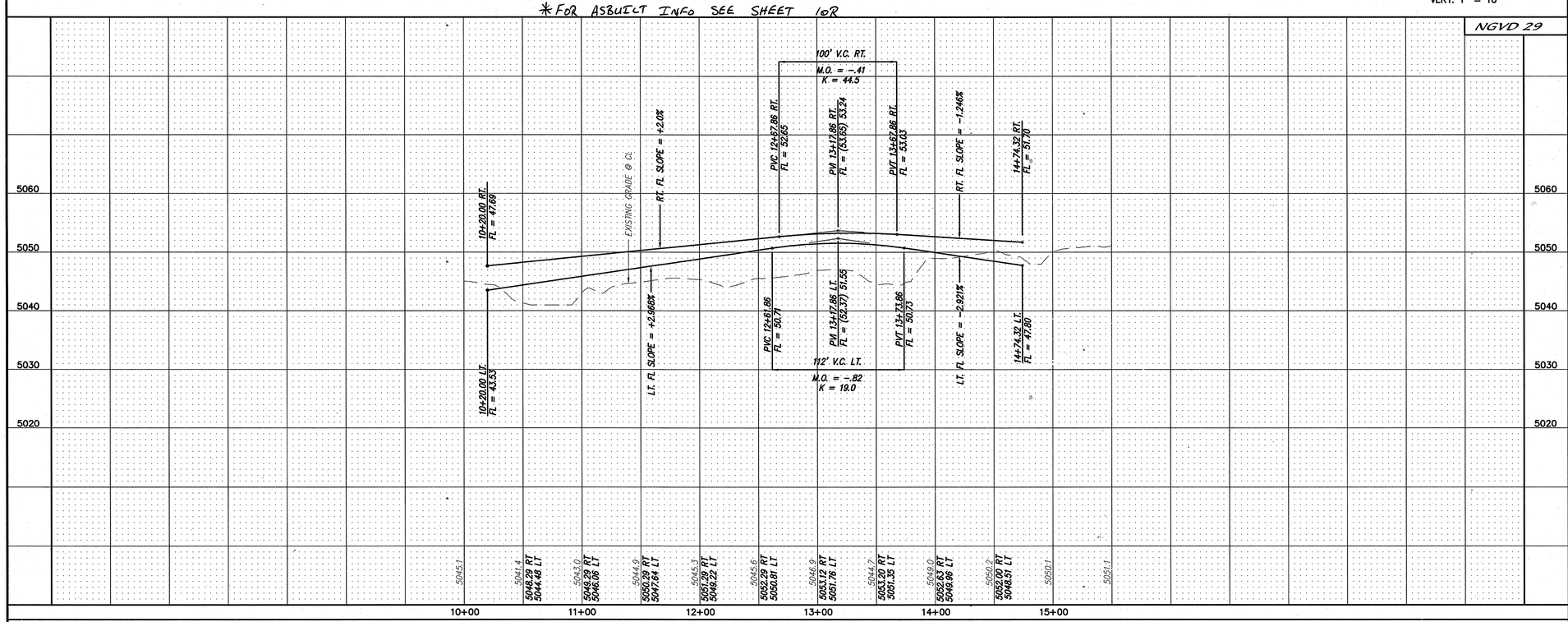
NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. PAINT THE MEDIAN CURB AT BOTH ENDS YELLOW, (22 LF AT EACH END).
3. ALL STRIPING AND MARKINGS SHALL BE HOT THERMOPLASTIC.
4. LANE LINES SHALL BE REFLECTIVE PAINT.
5. THIS SIGN IS PART OF THE APPROVED N.M.D.O.T. PLANS FOR RIO BRAVO BLVD. IMPROVEMENTS. ONLY INSTALL NEW SIGNS IF ONE IS NOT CURRENTLY EXISTING.

CURVE DATA – DESCRIBES FACE OF NEW CURB

1 Δ=88°19'23" L=38.54 R=25.00 Tan=34.83	2 Δ=180°00'00" L=21.99 R=7.00 Tan=14.00	3 Δ=90°00'00" L=39.27 R=25.00 Tan=35.36
4 Δ=89°48'35" L=47.02 R=30.00 Tan=42.36	5 Δ=180°00'00" L=21.99 R=7.00 Tan=14.00	6 Δ=90°07'21" L=47.19 R=30.00 Tan=42.47

*FOR ASBUILT INFO SEE SHEET 10R



Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Will Pat *

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY Cartesian Surveys Inc.	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY Cartesian Surveys Inc	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14". X=391,735.28, Y=1,467,2012.41 (NAD. 1927)
ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 10180 LICENSED PROFESSIONAL ENGINEER 8-22-1

REMARKS / REVISIONS

NO.	DATE	BY

		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

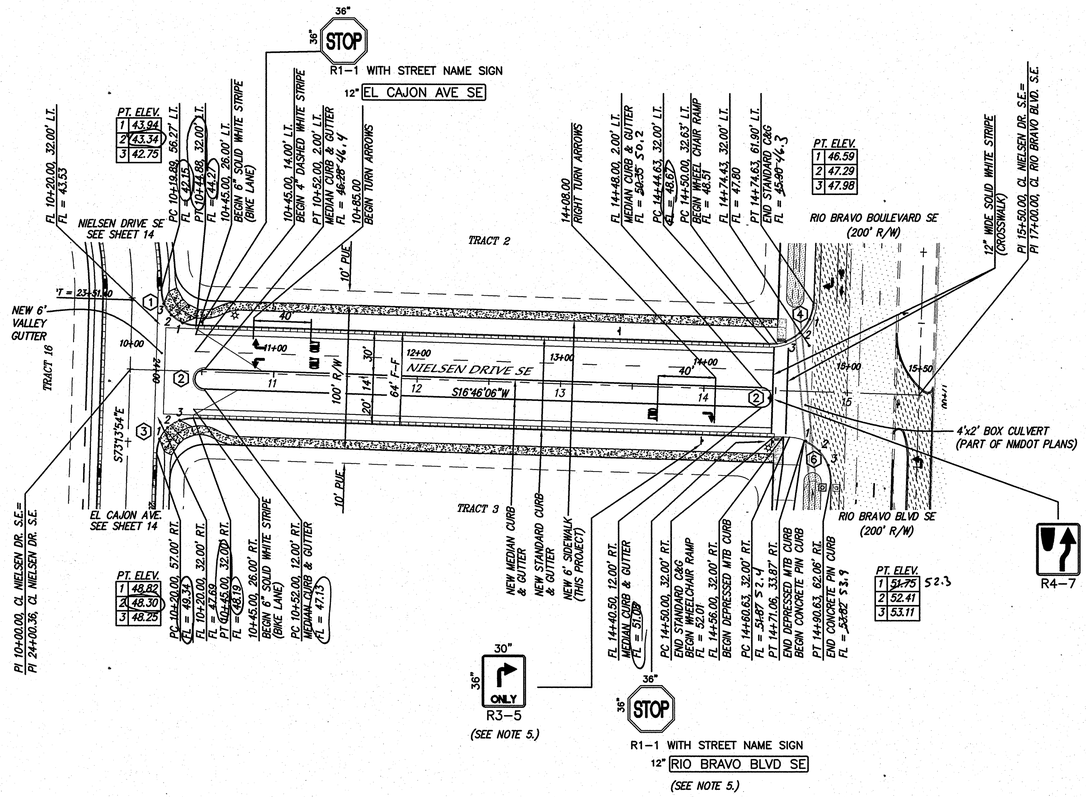
TITLE: NIELSEN INDUSTRIAL PARK
NIELSEN DR. S.E.
PAVING IMPROVEMENTS

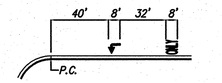
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

BERNALILLO COUNTY PROJECT NO.	ZONE MAP NO.	SHEET	OF
50051	P-14	10	29

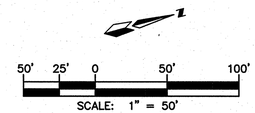
A2138NIND/PLANS/REVISED PLANS/A2138PP_NIELSEN-ENTRY.dwg/ 2/20/2008 KJS SLV RDQ DER RFH

RECORD DRAWINGS

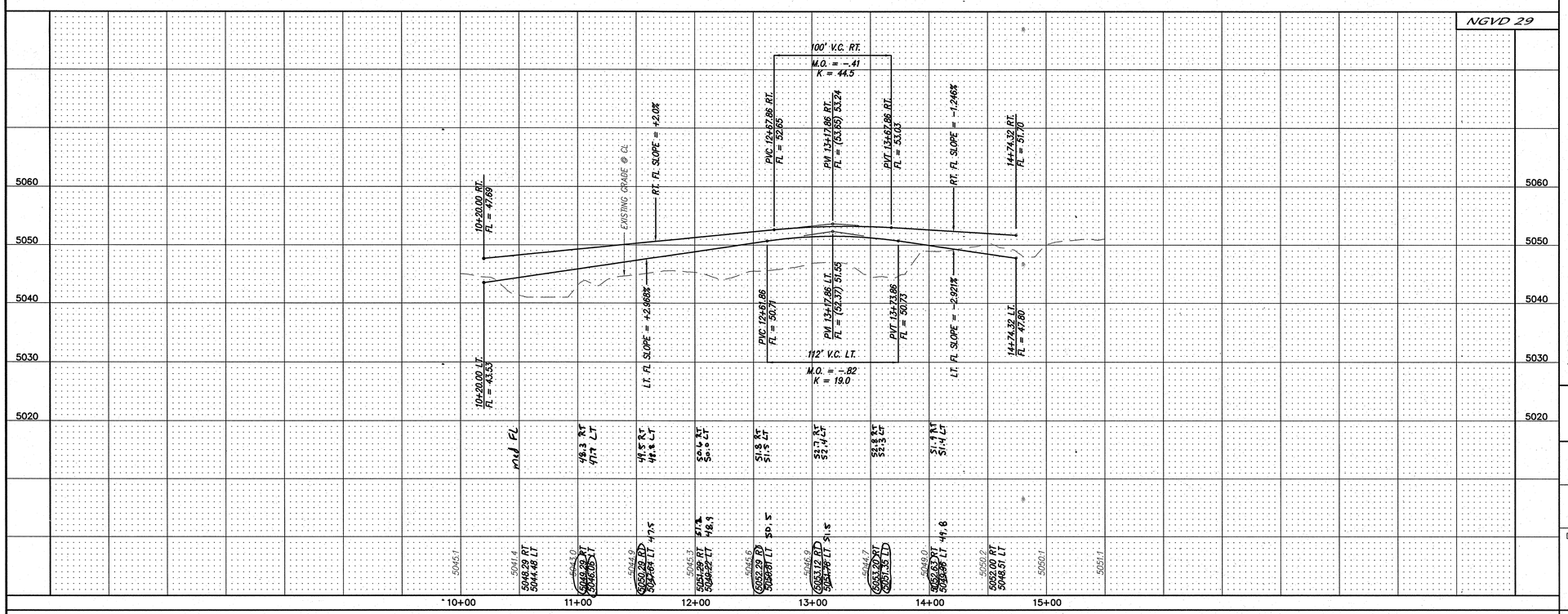




TURN LANE MARKING SPACING
N.T.S.



NIELSON DRIVE S.E.
STA. 10+00.00 TO STA. 15+50.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. PAINT THE MEDIAN CURB AT BOTH ENDS YELLOW, (22 LF AT EACH END).
3. ALL STRIPING AND MARKINGS SHALL BE HOT THERMOPLASTIC.
4. LANE LINES SHALL BE REFLECTIVE PAINT.
5. THIS SIGN IS PART OF THE APPROVED N.M.D.O.T. PLANS FOR RIO BRAVO BLVD. IMPROVEMENTS. ONLY INSTALL NEW SIGNS IF ONE IS NOT CURRENTLY EXISTING.

CURVE DATA – DESCRIBES FACE OF NEW CURB

(1) Δ=88°19'23" L=38.54 R=25.00 Tan=34.83	(2) Δ=180°00'00" L=21.99 R=7.00 Tan=14.00	(3) Δ=90°00'00" L=39.27 R=25.00 Tan=35.36
(4) Δ=89°48'35" L=47.02 R=30.00 Tan=42.36	(5) Δ=180°00'00" L=21.99 R=7.00 Tan=14.00	(6) Δ=90°07'21" L=47.19 R=30.00 Tan=42.47

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc	DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,201.41 (NAD 1927)
ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DUANE HOELZER NEW MEXICO (11967) LICENSED PROFESSIONAL ENGINEER
3-12-09

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	DLH	DATE 05/05
DRAWN BY	KJS	DATE 05/05
CHECKED BY	DMG	DATE 05/05

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

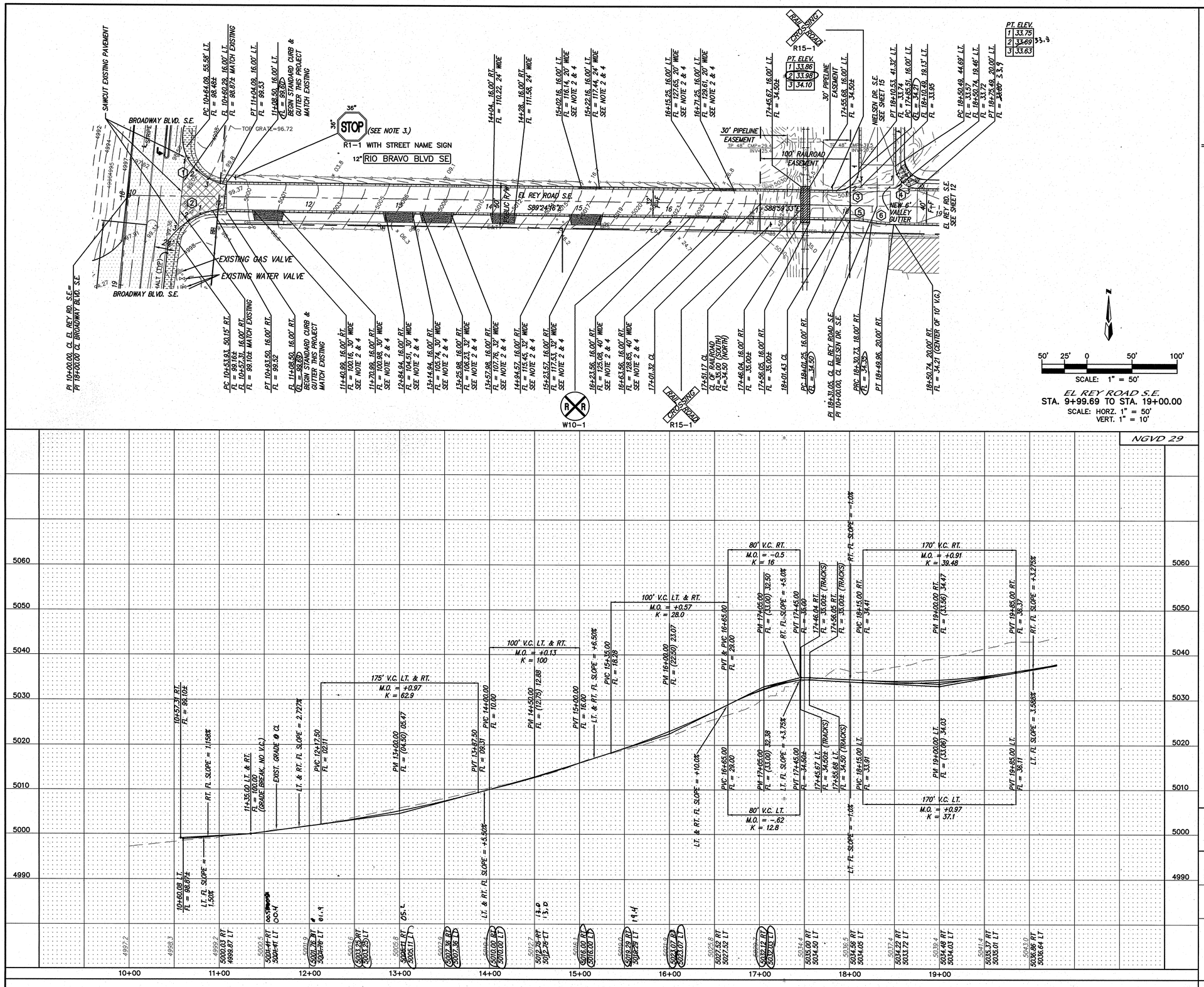
TITLE: NIELSEN INDUSTRIAL PARK
NIELSEN DR. S.E.
PAVING IMPROVEMENTS

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

BERNALILLO COUNTY PROJECT NO.	ZONE MAP NO.	SHEET OF
50051	P-14	10R 29

A2138NIND/PLANS/REVISED PLANS/A2138PP_NIELSEN-ENTRY_R.dwg/ 3/12/2009 KJS SLV RDQ DER RFH

RECORD DRAWINGS



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. TIE NEW DRIVEWAY INTO EXISTING DRIVEWAY. CONTACT ENGINEER IF THERE ARE ANY PROBLEMS WITH FIELD CONNECTION.
3. THIS STOP SIGN IS PART OF THE APPROVED N.M.D.O.T. PLANS FOR BROADWAY BLVD. IMPROVEMENTS. ONLY INSTALL NEW STOP SIGN IF ONE IS NOT CURRENTLY EXISTING.
4. PROPOSED DRIVEWAY PADS PER COA STD. DWG. 2425 (FIELD VERIFY LOCATIONS BEFORE CONSTRUCTION)

CURVE DATA – DESCRIBES FACE OF NEW CURB

1 Δ=94°40'10" L=66.09 R=40.00 Tan=58.83	2 Δ=82°12'23" L=57.39 R=40.00 Tan=52.59	3 Δ=90°45'00" L=39.60 R=25.00 Tan=35.59
4 Δ=89°17'07" L=38.96 R=25.00 Tan=35.13	5 Δ=9°19'39" L=24.42 R=150.00 Tan=24.39	6 Δ=9°21'46" L=24.51 R=150.00 Tan=24.48

LEGEND

REMOVE & REPLACE PAVEMENT

EXISTING PAVEMENT

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
FIELD WORK ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,201.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

NO.	DATE	BY	FIELD NOTES

ENGINEER'S SEAL

NEW MEXICO LICENSED PROFESSIONAL ENGINEER 11967 DANNY NOELLER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	DLH	DATE 05/05
DRAWN BY	KJS	DATE 05/05
CHECKED BY	DMG	DATE 05/05

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

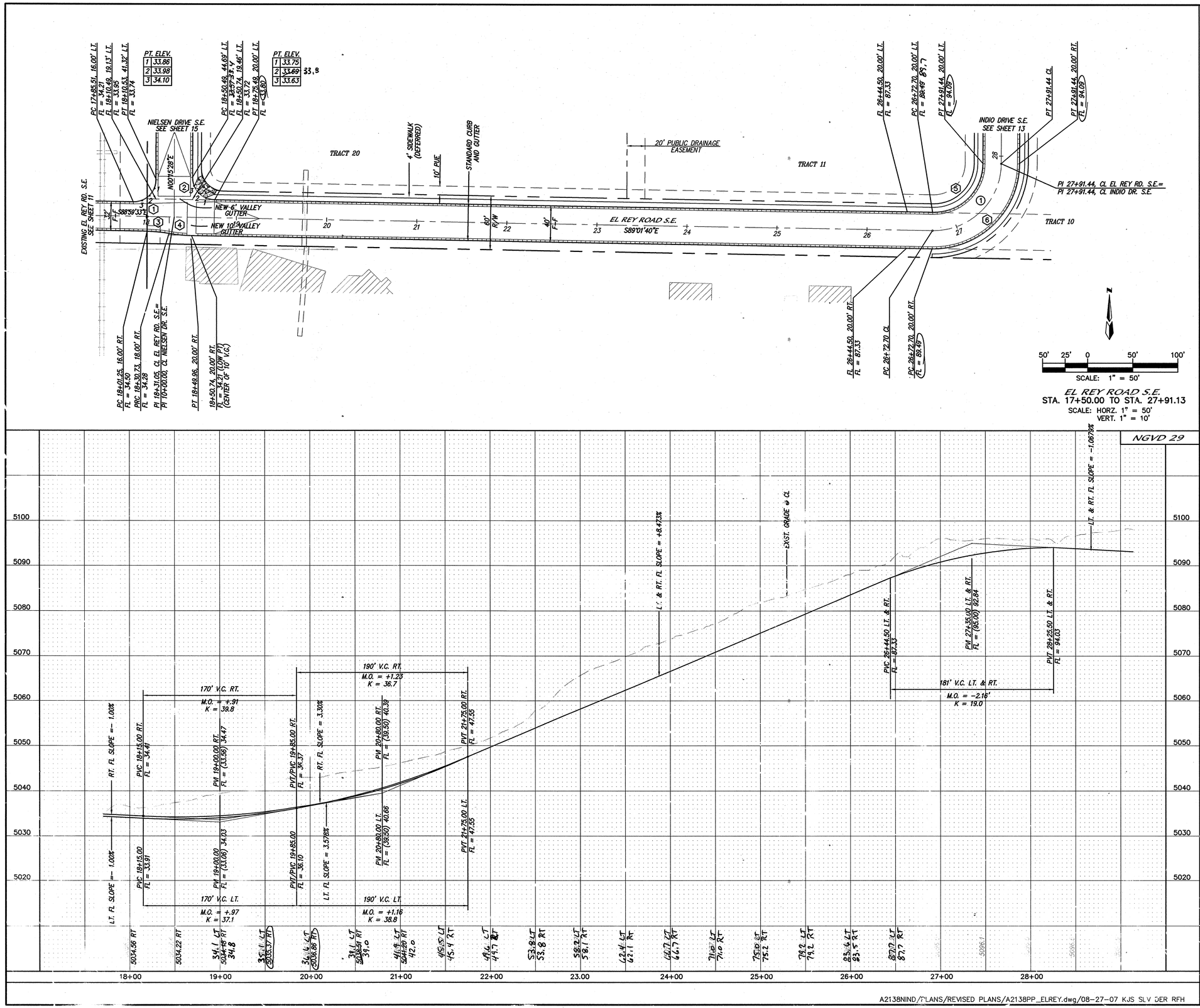
TITLE: NIELSEN INDUSTRIAL PARK
EL REY ROAD S.E. (WEST)
PAVING IMPROVEMENTS

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

BERNALILLO COUNTY PROJECT NO.	ZONE MAP NO.	SHEET	OF
50051	P-14	11R129	

A2138NIND/PLANS/REVISED PLANS/A2138PP_ELREYENTRY_R2.dwg/4-9-09\ KJS SLV DER RFH DLH ACH

RECORD DRAWINGS



A2138NIND/PLANS/REVISED PLANS/A2138PP_ELREY.dwg/08-27-07 KJS SLV DER RFH

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES CENTERLINE

(1) Δ=90°42'53"
L=118.75
R=75.00
Tan=106.73

CURVE DATA – DESCRIBES FACE OF NEW CURB

(1) Δ=90°45'00"
L=39.60
R=25.00
Tan=35.59

(2) Δ=89°17'07"
L=38.96
R=25.00
Tan=35.13

(3) Δ=9°19'39"
L=24.42
R=150.00
Tan=24.39

(4) Δ=9°21'46"
L=24.51
R=150.00
Tan=24.48

(5) Δ=90°42'53"
L=87.08
R=55.00
Tan=78.27

(6) Δ=90°42'53"
L=150.41
R=95.00
Tan=135.19

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOELZER NEW MEXICO 11987 LICENSED PROFESSIONAL ENGINEER 8/27/07

REVISIONS

NO.	DATE	REMARKS	BY

		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

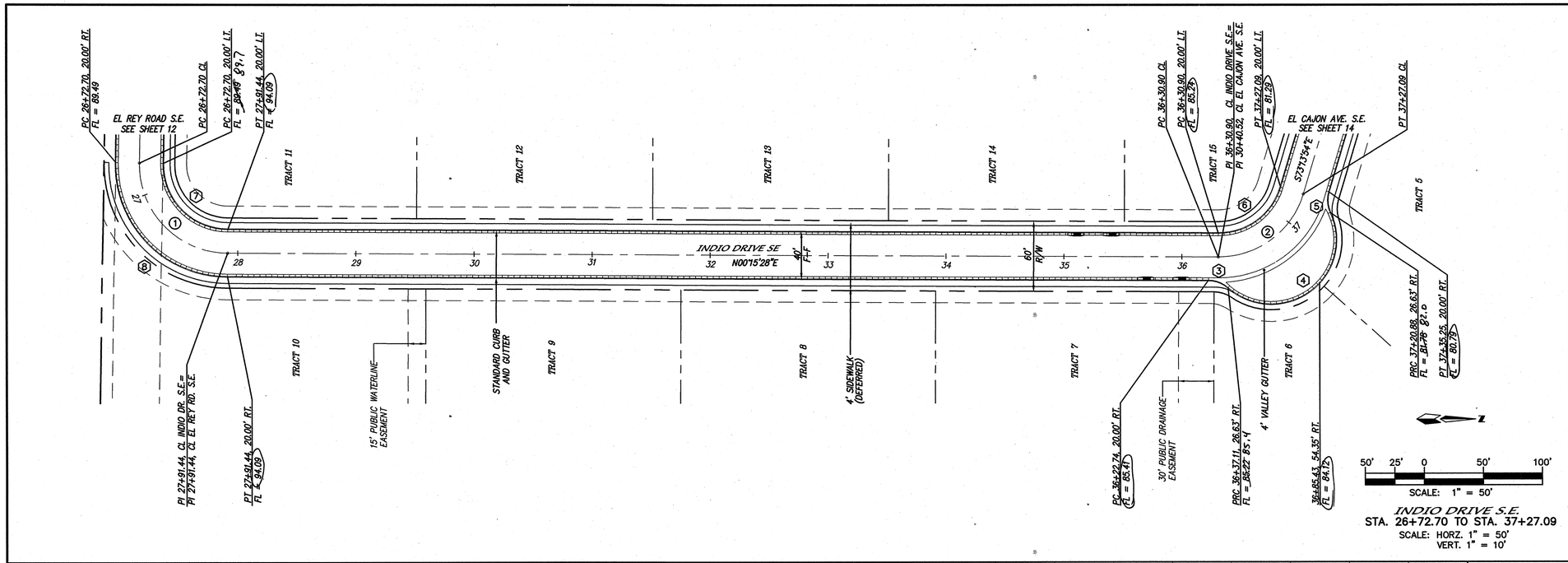
TITLE: NIELSEN INDUSTRIAL PARK
EL REY ROAD S.E. (EAST)
PAVING IMPROVEMENTS

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

BERNALILLO COUNTY PROJECT NO.	ZONE MAP NO.	SHEET	OF
50051	P-14	12	29

I:\ACD\ABS\A2138NIND\PLANS\Revised Plan s\A2138PP_ELREY.dwg, 8/30/2007 2:58:53 PM, PLOTTED BY: RFH

RECORD DRAWINGS



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES CENTERLINE

① Δ=90°42'53" L=118.75 R=75.00 Tan=106.73

② Δ=73°29'22" L=96.20 R=75.00 Tan=89.74

CURVE DATA – DESCRIBES FACE OF NEW CURB

③ Δ=41°30'57" L=18.11 R=25.00 Tan=17.72

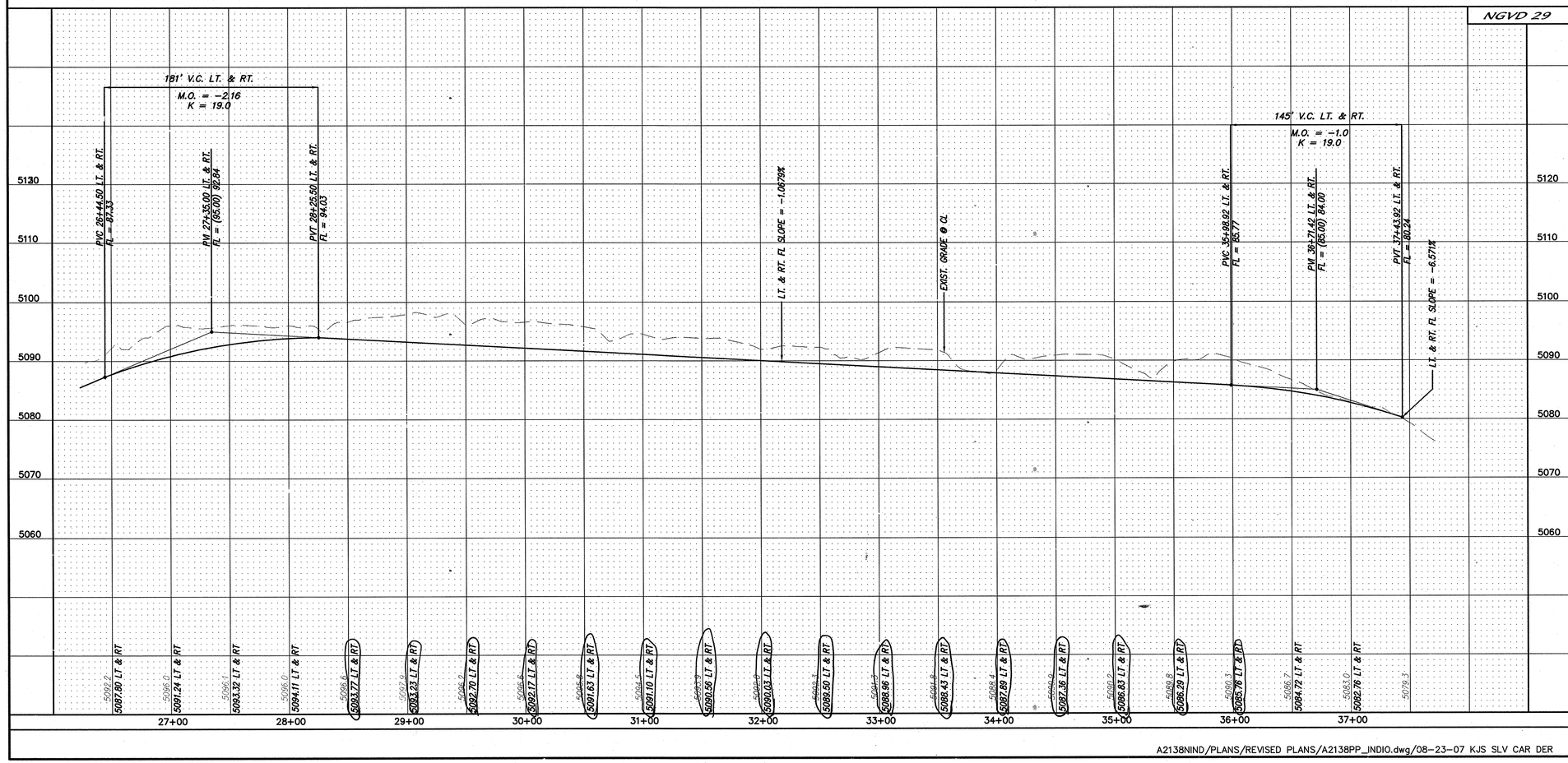
④ Δ=156°31'16" L=150.25 R=55.00 Tan=107.70

⑤ Δ=41°30'57" L=18.11 R=25.00 Tan=17.72

⑥ Δ=73°29'22" L=70.54 R=55.00 Tan=65.81

⑦ Δ=90°42'53" L=87.08 R=55.00 Tan=78.27

⑧ Δ=90°42'53" L=150.41 R=95.00 Tan=135.19



A2138NIND/PLANS/REVISED PLANS/A2138PP_INDIO.dwg/08-23-07 KJS SLV CAR DER

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD INFORMATION BY Cartesian Surveys Inc DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.

STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NEW MEXICO DANE HOELZER 11997 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		
DESIGNED BY	DLH	DATE 05/05
DRAWN BY	KJS	DATE 05/05
CHECKED BY	DMG	DATE 05/05

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

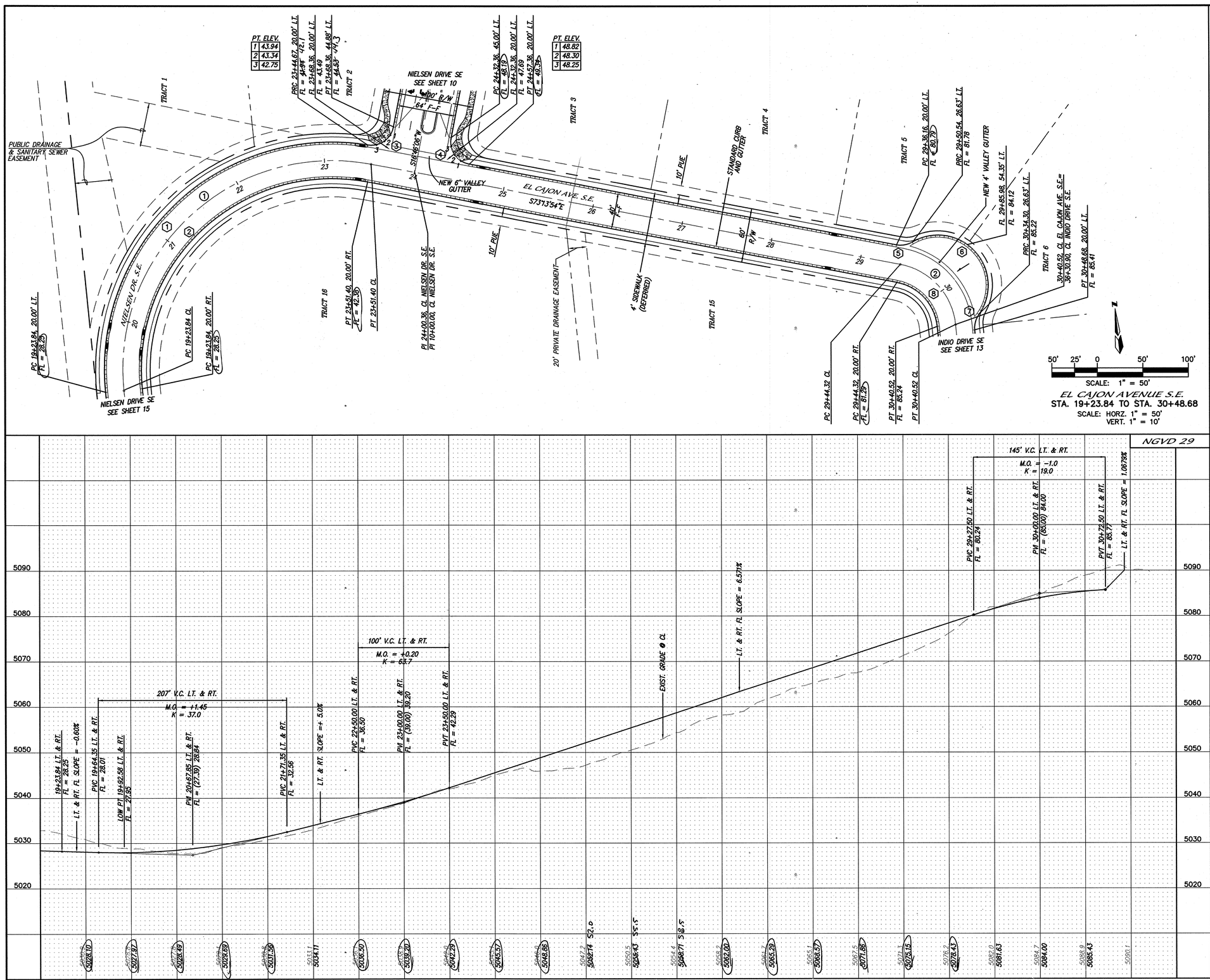
TITLE: NIELSEN INDUSTRIAL PARK
INDIO DRIVE S.E.
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

BERNALILLO COUNTY PROJECT NO. 50051 | ZONE MAP NO. P-14 | SHEET 13 OF 29

P:\AD2\DGS\A2138NIND\PLANS\Revised Plans\A2138PP_INDIO.dwg, 8/30/2007 2:59:34 PM, PLOTTED BY: RPH

RECORD DRAWINGS



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES CENTERLINE

1	Δ=106°30'38" L=427.56 R=230.00 Tan=368.60	2 Δ=73°29'22" L=96.20 R=75.00 Tan=89.74

CURVE DATA – DESCRIBES FACE OF NEW CURB

1 Δ=104°50'01" L=457.42 R=250.00 Tan=396.23	2 Δ=106°30'38" L=390.38 R=210.00 Tan=336.55	3 Δ=88°19'23" L=38.54 R=25.00 Tan=34.83
4 Δ=90°00'00" L=39.27 R=25.00 Tan=35.36	5 Δ=41°30'57" L=18.11 R=25.00 Tan=17.72	6 Δ=156°31'16" L=150.25 R=55.00 Tan=107.70
7 Δ=41°30'57" L=18.11 R=25.00 Tan=17.72	8 Δ=73°29'22" L=70.54 R=55.00 Tan=65.81	

AS BUILT INFORMATION

CONTRACTOR / DATE
STAKED BY Cartesian Surveys Inc. / DATE
INSPECTOR'S CHANGES BY / DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. / DATE
DRAWINGS CORRECTED BY / DATE

MICRO-FILM INFORMATION

RECORDED BY / DATE
NO.

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOELZER NEW MEXICO 11987 LICENSED PROFESSIONAL ENGINEER
11-15-07

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	DLH	DATE 11/07
DRAWN BY	KJS	DATE 11/07
CHECKED BY	DMG	DATE 11/07

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90806
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK
EL CAJON AVENUE S.E.
PAVING IMPROVEMENTS

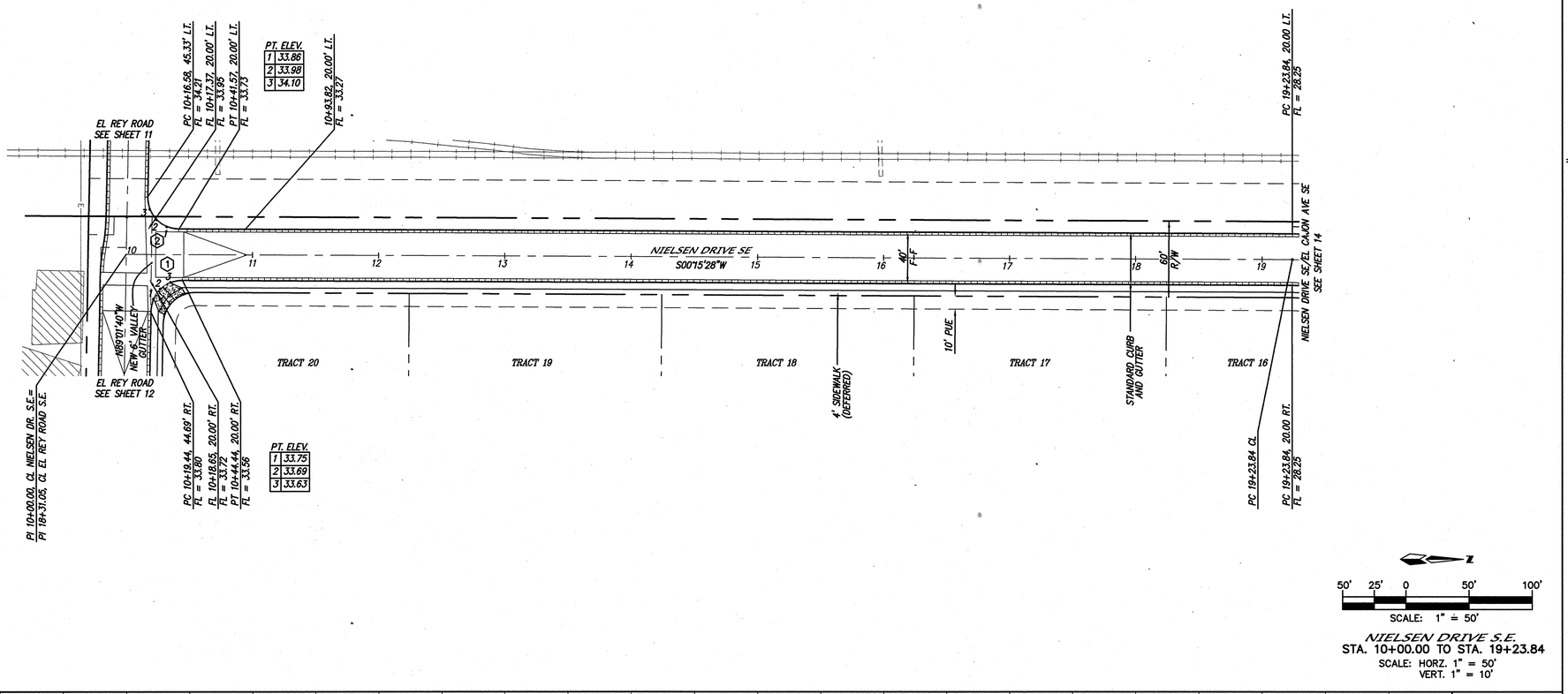
DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

BERNALILLO COUNTY PROJECT NO. 50051 | ZONE MAP NO. P-14 | SHEET 14 OF 29

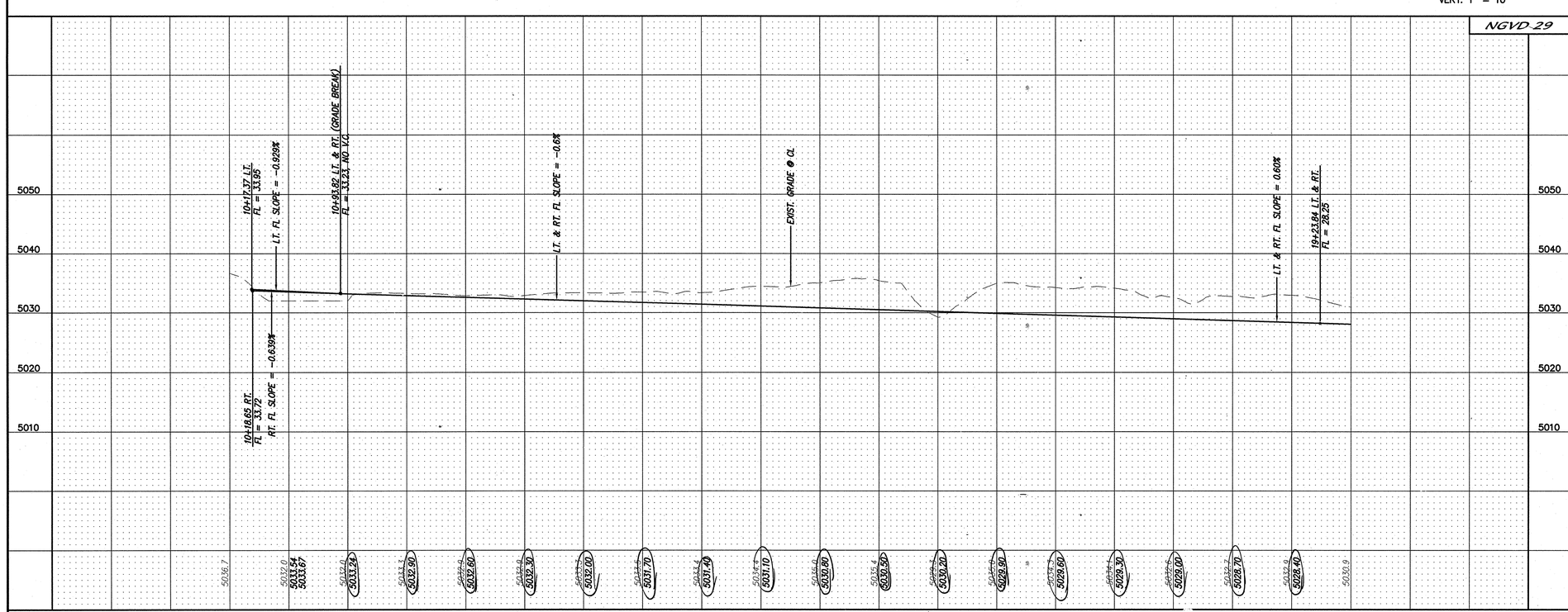
A2138NIND/PLANS/REVISED PLANS/A2138PP_CAJON-NIELSEN.dwg/11-02-07 KJS SLV RDQ DER

I:\A02JOBS\A2138NIND\PLANS\Revised Plans\A2138PP_CAJON-NIELSEN.dwg, 11/8/2007 10:33:18 AM, PLOTTED BY RDQ

RECORD DRAWINGS



NIELSEN DRIVE S.E.
STA. 10+00.00 TO STA. 19+23.84
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES FACE OF NEW CURB

1. Δ=90°45'00" L=39.60 R=25.00 Tan=35.59
2. Δ=89°17'07" L=38.96 R=25.00 Tan=35.13

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WJW

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID HOELZER NEW MEXICO 11987 LICENSED PROFESSIONAL ENGINEER
11-15-07

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	DLH	11/07
DRAWN BY	KJS	11/07
CHECKED BY	DMG	11/07

BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT

TITLE: *NIELSEN INDUSTRIAL PARK*
NIELSEN DRIVE S.E.
PAVING IMPROVEMENTS

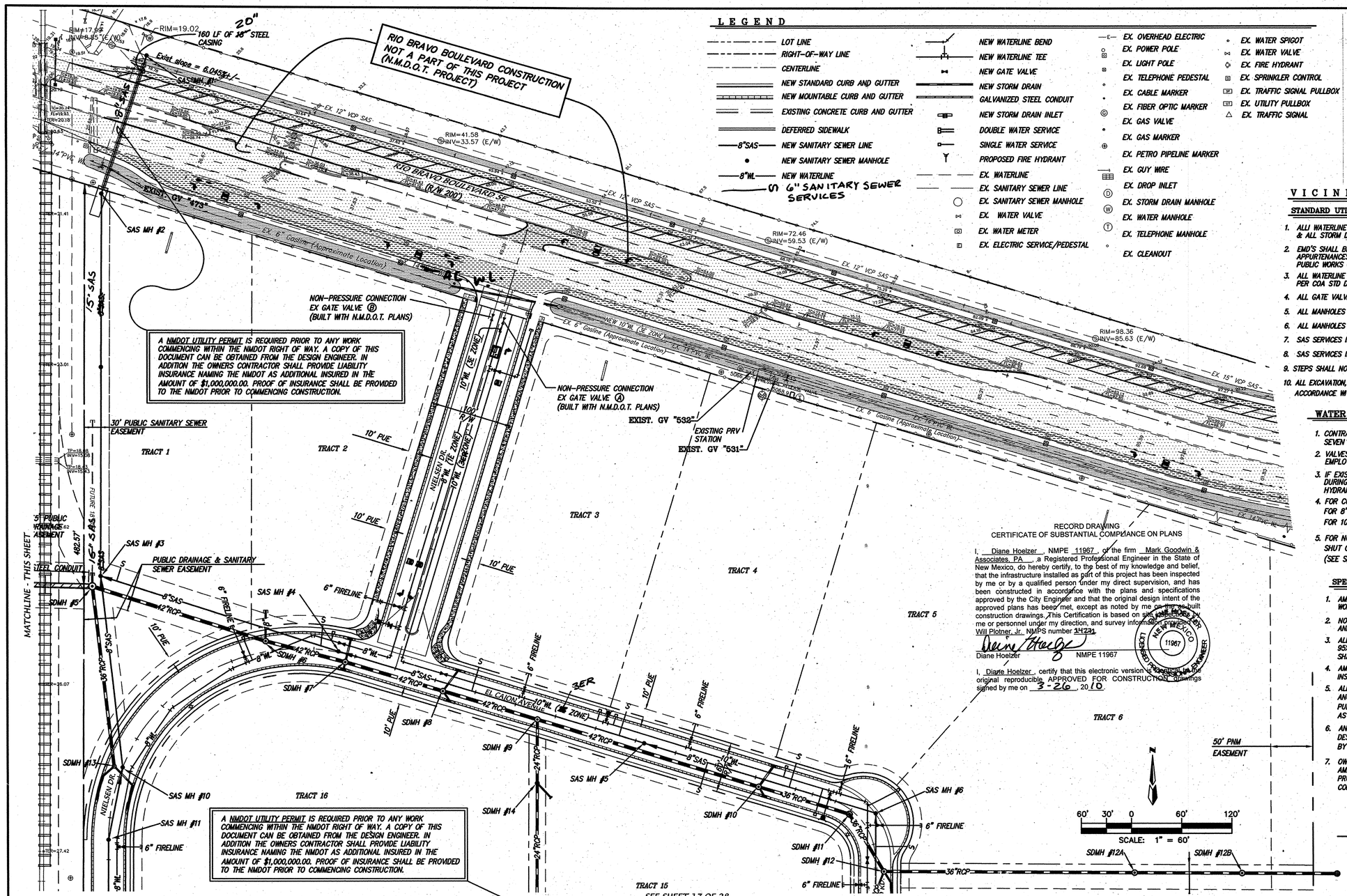
DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

BERNALILLO COUNTY PROJECT NO. 50051 | ZONE MAP NO. P-14 | SHEET 15 OF 29

A2138NIND/PLANS/REVISED PLANS/A2138PP_NIELSEN.dwg/11-02-07 KJS SLV DER RDQ

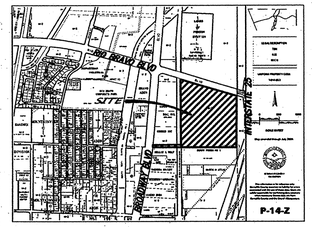
F:\AGJ\CAD\A2138\NIND\PLANS\Revised Plans\A2138PP_NIELSEN.dwg, 11/8/2007 11:39:42 AM, PLOTTED BY RDQ

RECORD DRAWINGS



LEGEND

- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- NEW STANDARD CURB AND GUTTER
- NEW MOUNTABLE CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- DEFERRED SIDEWALK
- 8"SAS — NEW SANITARY SEWER LINE
- NEW SANITARY SEWER MANHOLE
- 8"WL — NEW WATERLINE
- ⊓ 6" SANITARY SEWER SERVICES
- NEW WATERLINE BEND
- NEW WATERLINE TEE
- NEW GATE VALVE
- NEW STORM DRAIN
- GALVANIZED STEEL CONDUIT
- NEW STORM DRAIN INLET
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- PROPOSED FIRE HYDRANT
- EX. WATERLINE
- EX. SANITARY SEWER LINE
- EX. SANITARY SEWER MANHOLE
- EX. WATER VALVE
- EX. WATER METER
- EX. ELECTRIC SERVICE/PEDESTAL
- EX. OVERHEAD ELECTRIC
- EX. POWER POLE
- EX. LIGHT POLE
- EX. TELEPHONE PEDESTAL
- EX. CABLE MARKER
- EX. FIBER OPTIC MARKER
- EX. GAS VALVE
- EX. GAS MARKER
- EX. PETRO PIPELINE MARKER
- EX. GUY WIRE
- EX. DROP INLET
- EX. STORM DRAIN MANHOLE
- EX. WATER MANHOLE
- EX. TELEPHONE MANHOLE
- EX. CLEANOUT
- EX. WATER SPIGOT
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SPRINKLER CONTROL
- EX. TRAFFIC SIGNAL PULLBOX
- EX. UTILITY PULLBOX
- EX. TRAFFIC SIGNAL



VICINITY MAP — ZONE MAP: P-14-Z

STANDARD UTILITY NOTES:

1. ALL WATERLINE IS C-900 PVC PIPE AND ALL SANITARY SEWER IS SDR35 PVC PIPE & ALL STORM DRAIN IS RCP CLASS III UNLESS NOTED OTHERWISE ON THE PLANS.
2. EMD'S SHALL BE INSTALLED ON ALL WATERLINES AND SANITARY SEWER APPURTENANCES AS PER SECTION 170 OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION.
3. ALL WATERLINE SERVICES SHALL BE 2" UNLESS NOTED OTHERWISE ON PLANS. PER COA STD DWG. 2363 AND 2367.
4. ALL GATE VALVES PER STANDARD DRAWING 2326 AND 2328.
5. ALL MANHOLES TYPE "C" PER STANDARD DRAWING 2101.
6. ALL MANHOLES TYPE "E" PER STANDARD DRAWING 2102.
7. SAS SERVICES INTO MAIN LINE PER STANDARD DRAWING 2125.
8. SAS SERVICES INTO MANHOLES PER STANDARD DRAWING 2118.
9. STEPS SHALL NOT BE INSTALLED IN SANITARY SEWER MANHOLES.
10. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART "P".

WATER SHUT-OFF NOTES

1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, SEVEN (7) DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY WATER AUTHORITY EMPLOYEES. (ABCWUA)
3. IF EXISTING FIRE HYDRANTS ARE TO BE SHUT DOWN DURING CONSTRUCTION, CONTRACTOR SHALL BAG FIRE HYDRANT'S DURING TERM OF SHUT DOWN.
4. FOR CONNECTION IN NIELSEN DRIVE:
   FOR 8" WL, SHUT OFF EXISTING GATE VALVE (B)
   FOR 10" WL, SHUT OFF EXISTING GATE VALVE (A)
5. FOR NON-PRESSURE CONNECTION AT BROADWAY/EL REY ROAD: SHUT OFF EXISTING GATE VALVE "961" AND (C) AND (D) (SEE SHEET 17)

SPECIAL NOTES FOR WORK IN AMAFCA RIGHT OF WAY:

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK WITHIN AMAFCA R/W. CALL 884-2215.
2. NO WORK WILL BE PERFORMED IN THE AMAFCA R/W BETWEEN MAY 15 AND OCTOBER 15 WITHOUT WRITTEN PERMISSION FROM AMAFCA.
3. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO THE AMAFCA FIELD ENGINEER.
4. AMAFCA FIELD ENGINEER WILL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.
5. ALL DISTURBED GRAOUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012 NATIVE GRASS SEEDING. AS CURRENTLY UPDATED.
6. ANY EXISTING SURVEY CONTROL MONUMENTS THAT ARE MOVED OR DESTROYED AS A RESULT OF THE CONSTRUCTION SHALL BE REPLACED BY A REGISTERED SURVEYOR AT THE OWNER'S EXPENSE.
7. OWNER'S CONTRACTOR SHALL PROVIDE LIABILITY INSURANCE NAMING AMAFCA AS ADDITIONAL INSURED IN THE AMOUNT OF $2,000,000. PROOF OF INSURANCE SHALL BE PROVIDED TO AMAFCA PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION WITHIN AMAFCA RIGHT-OF-WAY:

FOR AMAFCA — DATE

RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, PA, 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 part of this project 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 Engineer 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 visits made by me or personnel under my direction, and survey information provided by Will Plotner, Jr. NMPS number 14231.

Diane Hoelzer — NMPE 11967

I, Diane Hoelzer, certify that this electronic version is an exact copy of the original reproducible APPROVED FOR CONSTRUCTION drawings signed by me on 3-26, 2010.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
AS-BUILTS ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION "2-N14" IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,201.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

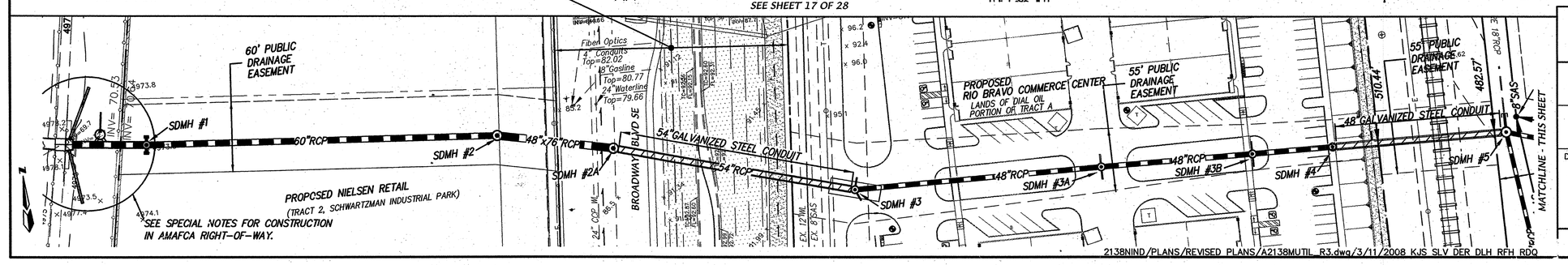
SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DIANE HOELZER — NEW MEXICO — 11967 — LICENSED PROFESSIONAL ENGINEER — 3-26-08

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGN		11/07
DESIGNED BY	DLH	11/07
DRAWN BY	KJS	11/07
CHECKED BY	DMG	11/07



MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK MASTER UTILITY PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
777081	P-14-Z	16	29

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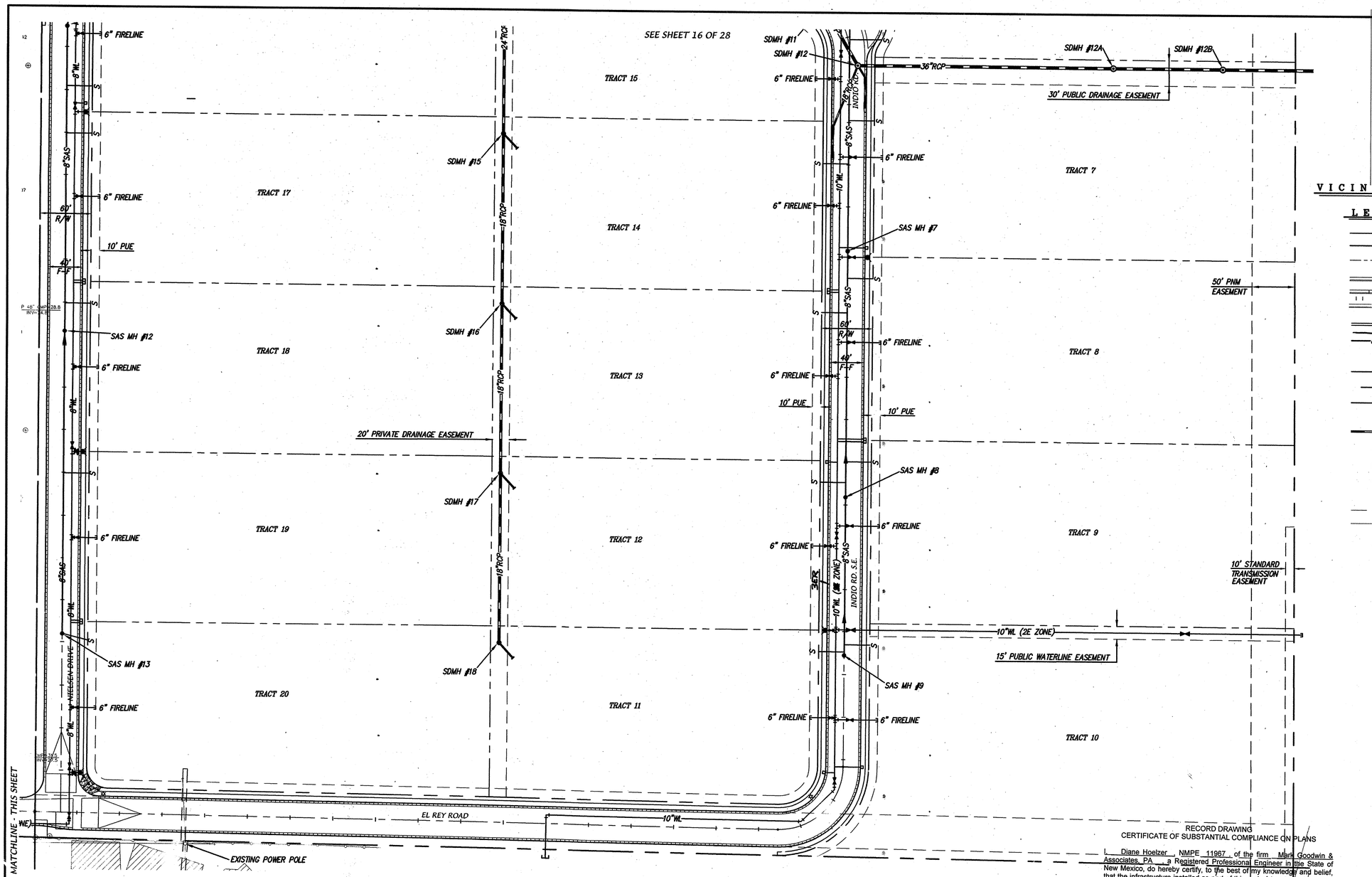

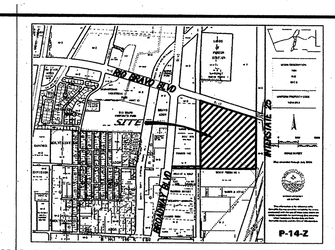

VICINITY MAP ZONE MAP: P-14-Z

LEGEND

- LOT LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- NEW STANDARD CURB AND GUTTER
- NEW MOUNTABLE CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
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- 6" SANITARY SEWER SERVICES
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- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SPRINKLER CONTROL
- EX. TRAFFIC SIGNAL PULLBOX
- EX. UTILITY PULLBOX
- EX. TRAFFIC SIGNAL

RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

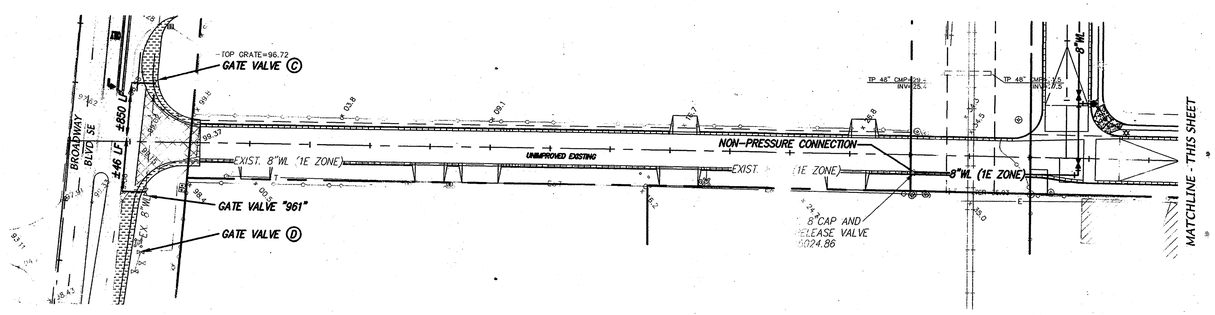
I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer 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 direct supervision, and survey information provided by Will Plotner, Jr. NMPS number 4424.

Diane Hoelzer
Diane Hoelzer NMPE 11967

I, Diane Hoelzer, certify that this electronic version is a faithful and original reproducible APPROVED FOR CONSTRUCTION drawings signed by me on 3-26, 2010.

NOTES

1. ALL FIRE HYDRANTS ARE 4' BURY UNLESS OTHERWISE SPECIFIED.
2. ALL STORM DRAIN IS CLASS III RCP.
3. ALL SANITARY SEWER SERVICES ARE 6" DIAMETER. W/T-Wye Connection
4. WATER METERS TO BE LOCATED PER CITY STD. DWG. 2361 CASE 4.
5. ALL WATER METERS SERVICE LINES SHALL BE 2".



N

SCALE: 1" = 60'

2138NIND/PLANS/REVISED PLANS/A2138MUTIL_R1.dwg/11-02-07 KJS SLV DER RFH RDQ

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DIANE HOELZER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER
80-11-2

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	DLH	DATE	11/07
DRAWN BY	KJS	DATE	11/07
CHECKED BY	DMG	DATE	11/07

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

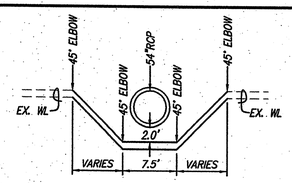
NIELSEN INDUSTRIAL PARK MASTER UTILITY PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
777081	P-14-Z	17	29

RECORD DRAWINGS

STORM DRAIN SUMMARY TABLE						
LOCATION		Q100	VELOCITY	UPSTREAM		DOWNSTREAM	
UPSTRM	DNSTRM	(cfs)	(fps)	GRD	HGL	GRD	HGL
MH#1	OUTFALL	317	16–19	81.0	76.0	77.00	72.5
MH#2	MH#1	280	14	88.42	81.6	81.00	77.9
MH#2A	MH#2	280	18	86.50	83.3	88.42	81.6
MH#3	MH#2A	280	18	98.90	89.4	86.50	84.8
MH#3A	MH#3	266	21–28	102.29	95.5	98.90	89.4
MH#3B	MH#3A	258	29–32	102.35	94.4	102.29	96.5
MH#4	MH#3B	244	34–36	105.74	98.7	102.35	94.4
MH#5	MH#4	244	19–36	126.50	116.8	105.74	98.7



TYPICAL WATERLINE RELOCATION DETAIL

N.T.S.

Certification

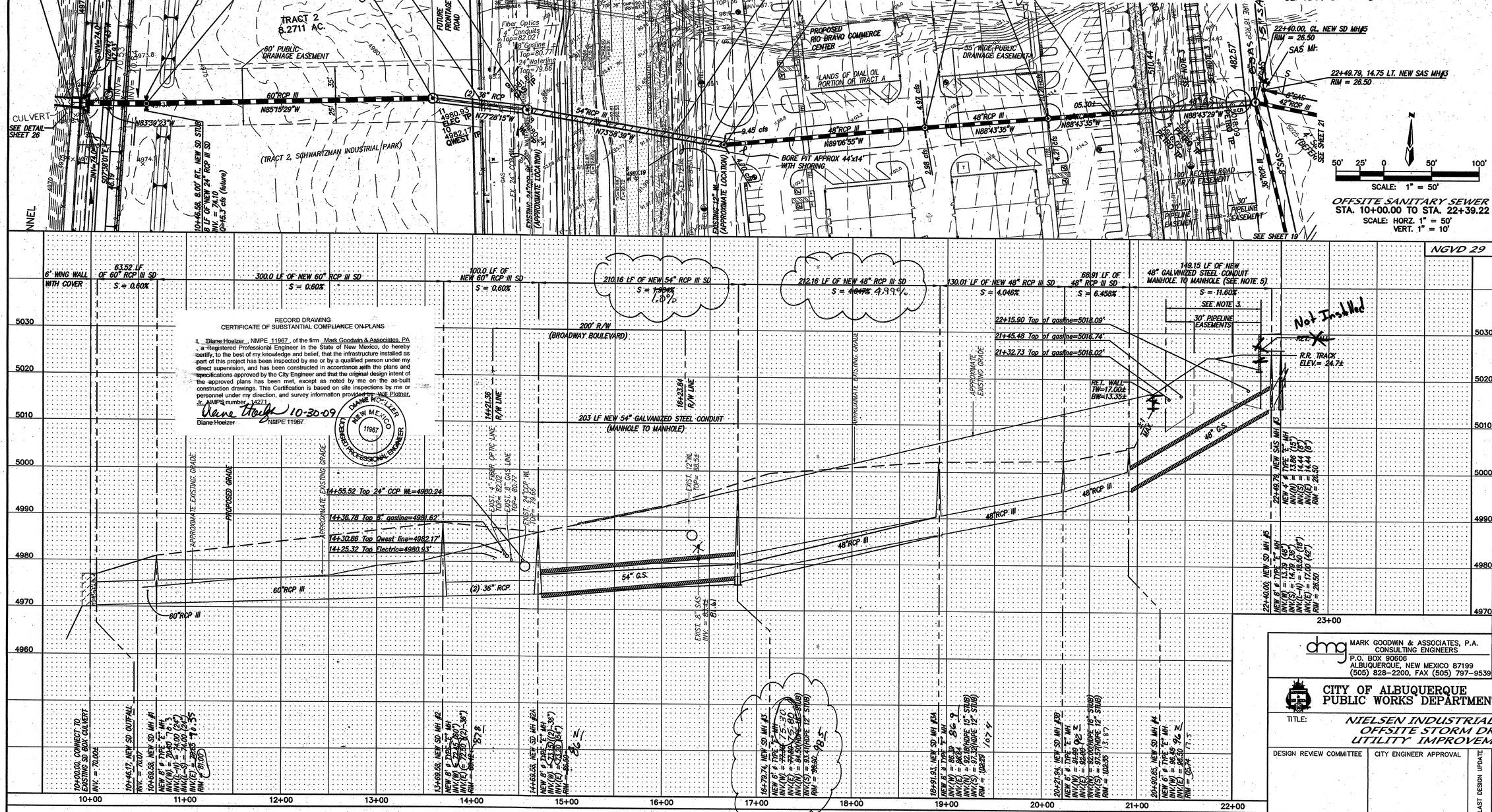
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTES

1. ALL STATIONING IS BASED ON CENTERLINE OF STORM DRAIN.
2. FIELD VERIFY HORIZONTAL & VERTICAL LOCATIONS OF ALL UTILITIES (INCLUDING EXISTING WATERLINE & SANITARY SEWER LINES) CROSSING PROPOSED STORM DRAIN IN BROADWAY BEFORE BEGINNING CONSTRUCTION.
3. THERE ARE AT LEAST TWO KNOWN HIGH PRESSURE GAS LINES LOCATED WEST OF THE RAILROAD TRACKS AND AT LEAST ONE HIGH PRESSURE GAS LINE EAST OF THE RAILROAD TRACKS. THEY ARE MOST LIKELY 6" STEEL PIPELINES. PRIOR TO COMMENCING THE JACK AND BORE OPERATION UNDER THE TRACKS, ALL OF THE EXISTING UTILITIES LINES INCLUDING THE ONES MENTIONED ABOVE WILL NEED TO BE LOCATED AND EXPOSED. THE FOLLOWING REPRESENTATIVES NEED TO BE CONTACTED AND INFORMED OF THE SCHEDULE FOR CONSTRUCTION IN THE EASEMENT AREA TO ALLOW FOR THEIR ONSITE ASSISTANCE IN EXPOSING THE UNDERGROUND GAS LINE UTILITIES:

   JOSH (241–9976, NUSTAR),
   DWAYNE GREASER (238–0136, PLAINS PIPELINE),
   JESSE STUART (269–2854, HOLLY ENERGY).

   THERE MAY ALSO BE P.N.M. LINES IN THIS AREA AS WELL. IF THERE IS ANY PROBLEM WITH BORING UNDER THESE PIPELINES AND CLEARING BY AT LEAST 2 FEET, THE ENGINEER IN CHARGE NEEDS TO BE CONTACTED FOR POSSIBLE FIELD DESIGN CHANGE. THE EXPOSURE OF THESE LINES SHOULD COMMENCE PRIOR TO LAYING UPSTREAM OR DOWNSTREAM PIPE TO ALLOW FOR FIELD CHANGE ADJUSTMENTS AS NECESSARY.
4. CLEARANCE BETWEEN THE PLAINS PIPELINE 8" HIGH PRESSURE REFINED PRODUCTS AND THE NEW 48" STORM DRAIN SHALL BE NO LESS THAN 2 FEET. CLEARANCE BETWEEN THE WESTERN REFINING SOUTHWEST INC. (FORMERLY GIANT INDUSTRIES) HIGH PRESSURE PIPELINE AND THE 48" STORM DRAIN SHALL BE NO LESS THAN 2 FEET. STORM DRAIN DEPTH TO BE FIELD VERIFIED AND ADJUSTED IF NECESSARY TO MEET THIS REQUIREMENT.
5. CONDUIT SHALL WITHSTAND E80 LOADING. ALL JACK & BORE SHALL BE IN ACCORDANCE TO BNSF RAILROAD CONSTRUCTION SPECIFICATIONS. (LATEST EDITION)



A2138NIND/PLANS/REVISED PLANS/A2138UP_SD1–R5.dwg (11–10–08) DER RFH RDQ ACH DLH

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY	Cartesian Surveys Inc.	DATE
ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY		DATE

MICRO–FILM INFORMATION

RECORDED BY		DATE
NO.		

BENCH MARKS

STATION "2–H14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DIANE HOELZER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER 8-31-11

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	DLH	DATE	10/07
DRAWN BY	KJS	DATE	10/07
CHECKED BY	DMG	DATE	10/07

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828–2200, FAX (505) 797–9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK OFFSITE STORM DRAIN UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	777081	ZONE MAP NO.	SHEET	OF
B.C.P.W. NO.	50051	P-14-Z	18R	29

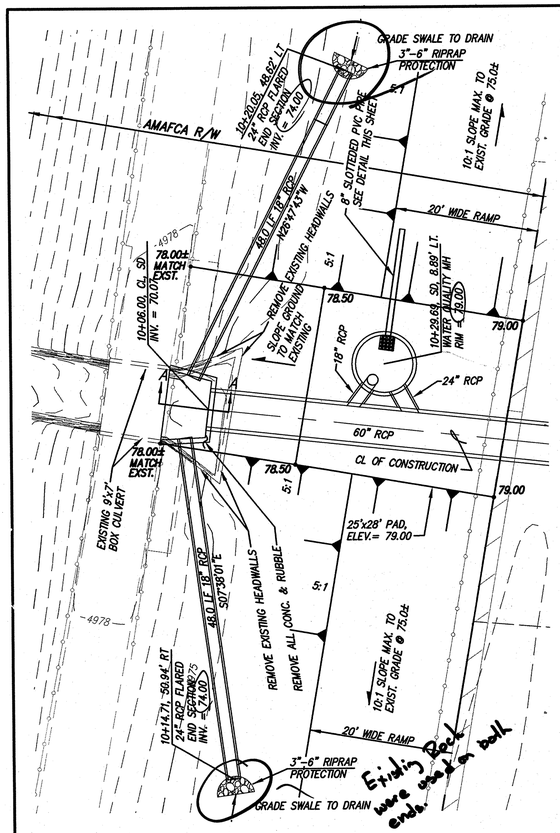
REVISED MH #3 (SAS CONFLICT)

RECORD DRAWINGS

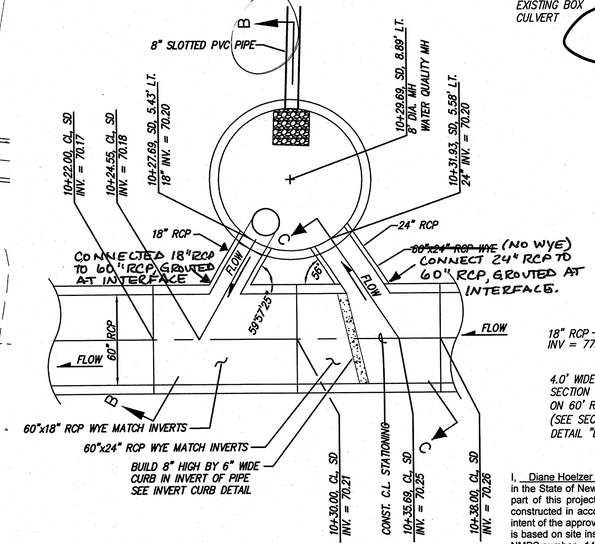
NOTE: FOR ALL WORK WITHIN THE AMAFCA R/W, REFER TO SPECIAL NOTES FOR WORK IN AMAFCA R/W FOUND ON SHEET 16.

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

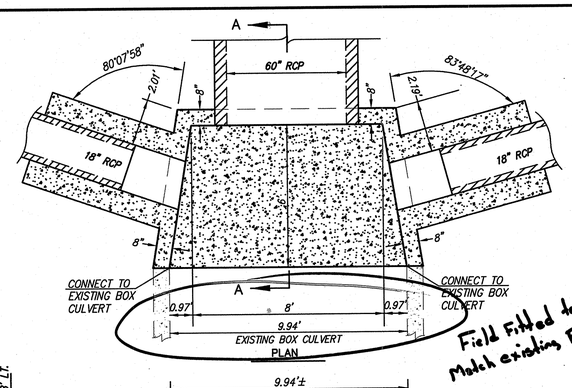
Will Plotner

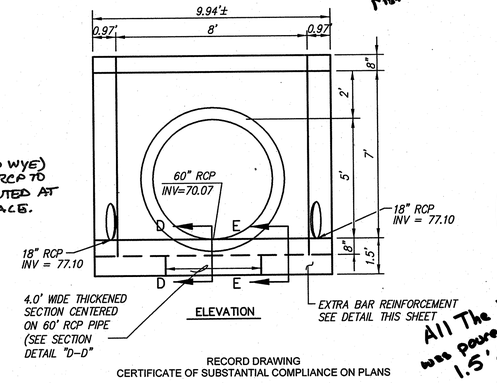


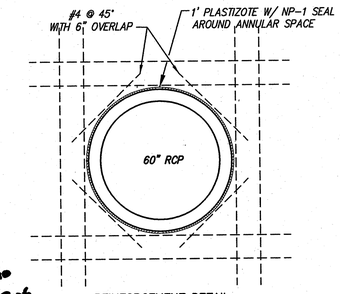
PLAN VIEW - HEADWALL/WATER QUALITY MANHOLE
SCALE: 1" = 10'



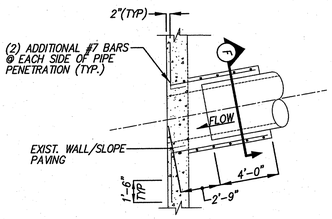
PLAN VIEW - WATER QUALITY MANHOLE
SCALE: 1" = 4.0'



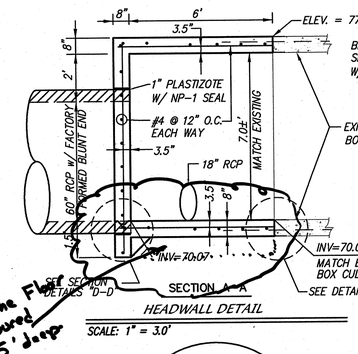




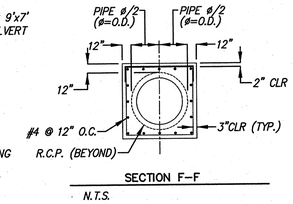
REINFORCEMENT DETAIL AT 60" RCP CULVERT CONNECTION TO HEADWALL



REINFORCEMENT DETAIL AT 18" RCP CULVERT CONNECTION TO HEADWALL



HEADWALL DETAIL
SCALE: 1" = 3.0'

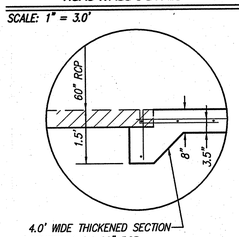


SECTION F-F
N.T.S.

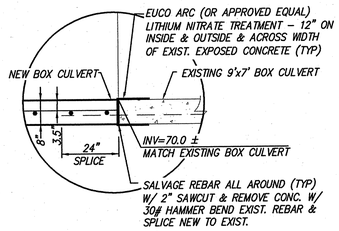
RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, PA, 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 part of this project 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 Engineer 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 Will Plotner, Jr. NMPS number 14271.

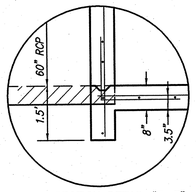
Diane Hoelzer 10-30-09
Diane Hoelzer NMPE 11967



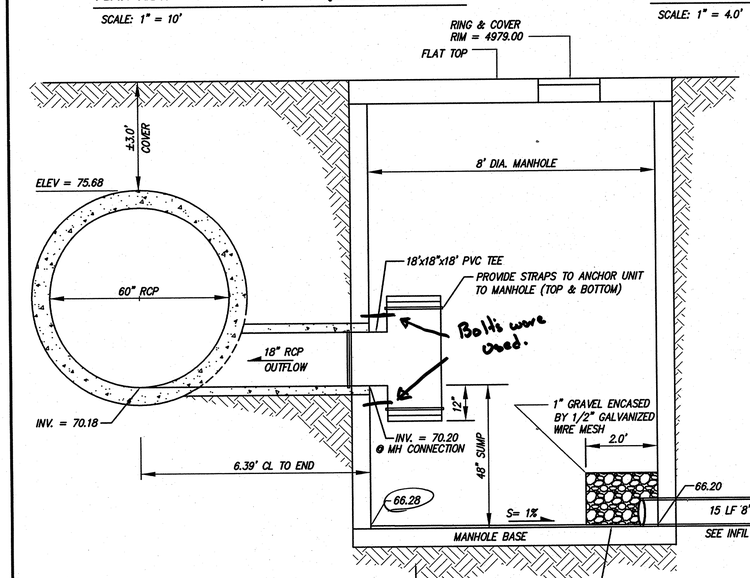
SECTION DETAIL "D-D"
SCALE: 1" = 2.0'



DETAIL "B"
SCALE: 1" = 2.0'

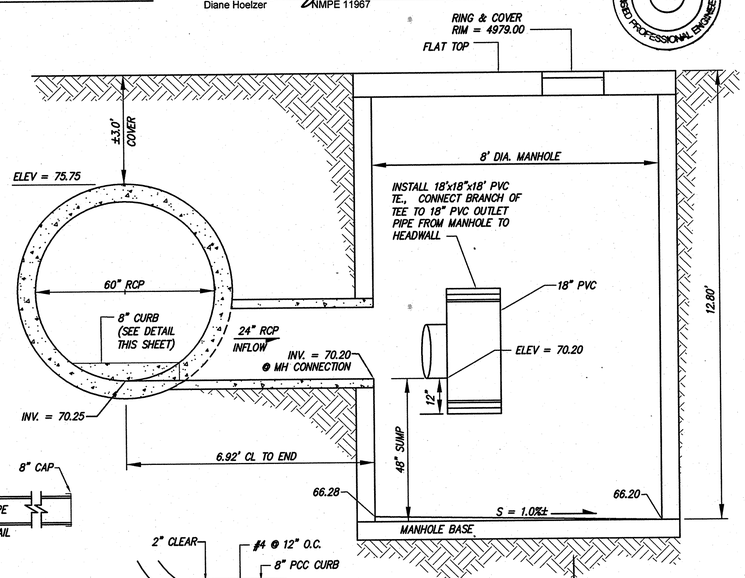


SECTION DETAIL "E-E"
SCALE: 1" = 2.0'

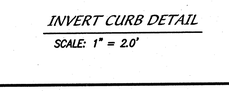


SECTION B-B
SCALE: 1" = 2.0'

WATER QUALITY MANHOLE



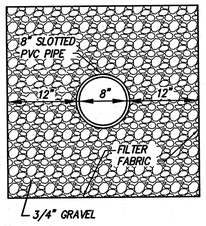
SECTION C-C
SCALE: 1" = 2.0'



INVERT CURB DETAIL
SCALE: 1" = 2.0'

APPROVED FOR CONSTRUCTION WITHIN AMAFCA RIGH-OF-WAY:

Lynn M. Mann 1-18-08
FOR AMAFCA DATE



INFILTRATION PIPE DETAIL
SCALE: 1" = 1.0'

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	Cartesian Surveys Inc.
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=361,735.28, Y=1,467,201.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

ENGINEER'S SEAL
DIANE HOELZER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER
8-2-1

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGN		
DESIGNED BY	DLH	10/07
DRAWN BY	KJS	10/07
CHECKED BY	DMG	10/07

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

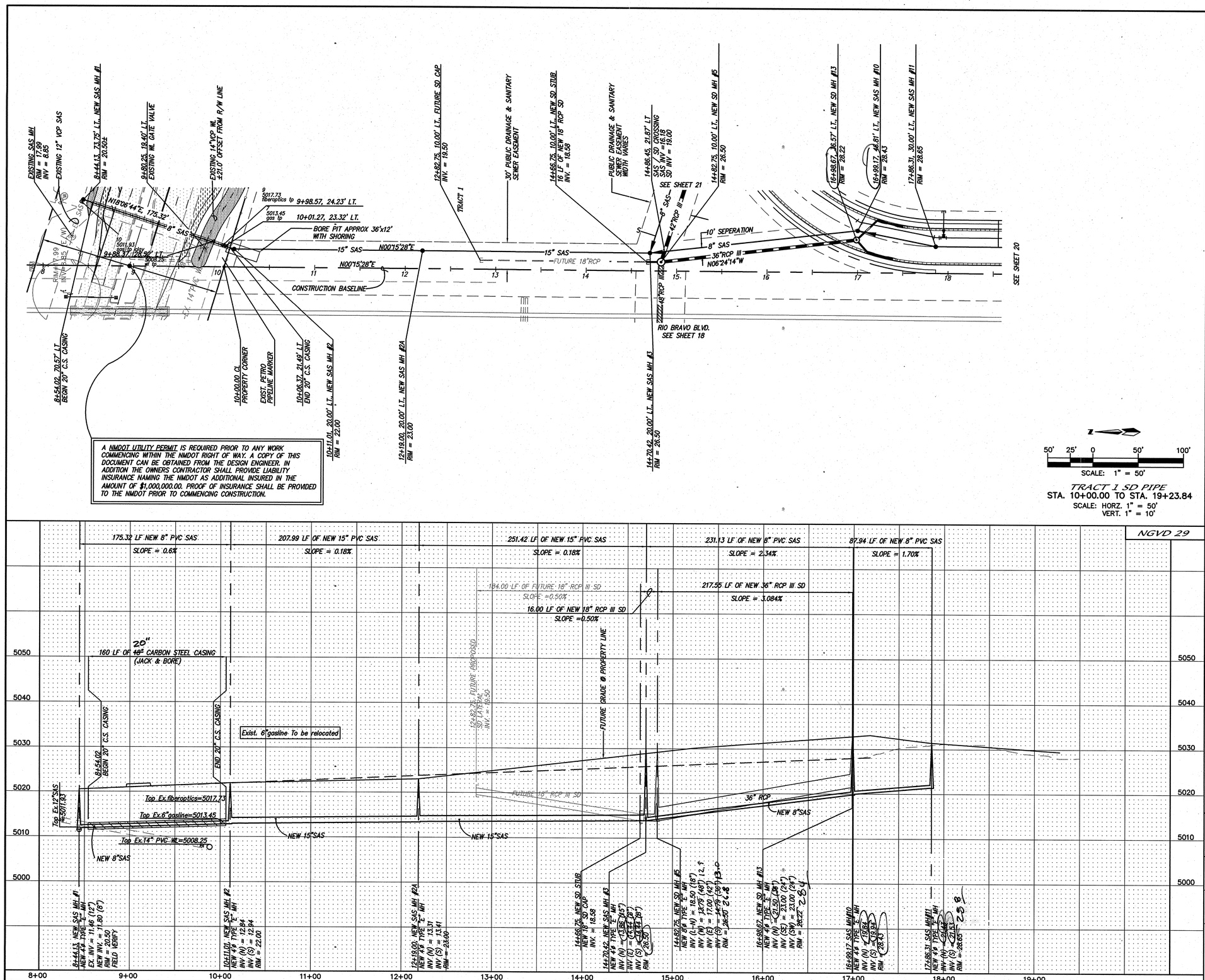
TITLE: NIELSEN INDUSTRIAL PARK WATER QUALITY MANHOLE & SD OUTFALL STRUCTURE

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

CITY PROJECT NO.	777081	ZONE MAP NO.	P-14-Z	SHEET 18.1	OF 29
B.C.P.W. NO.	50051				

A2138NIND/PLANS/REVISED PLANS/A2138UP_SD1-R2.dwg/1-11-08 DER RFH RDQ DLH

RECORD DRAWINGS



A2138NIND/Revised PLANS/A2138UTPP_RIO BAVO-NIELSEN_R4/(11/10/2008) KSJ SLV DER RFH RDQ DLH

NOTES

1. ALL STATIONING IS BASED ON THE WEST PROPERTY LINE.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. AND WATERLINE AND SANITARY SEWER IS UNDER CITY OF ALBUQUERQUE JURISDICTION.

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE	BY	DATE
FIELD VERIFICATION	BY Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED	BY	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

STATION "2-N14" IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=391,735.28, Y=1,467,201.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE MOELLER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER

BQ-71-11

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		DATE
DESIGNED BY	DLH	10/07
DRAWN BY	KJS	10/07
CHECKED BY	DMG	10/07

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PWCO: 50051 (STORM DRAIN)

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

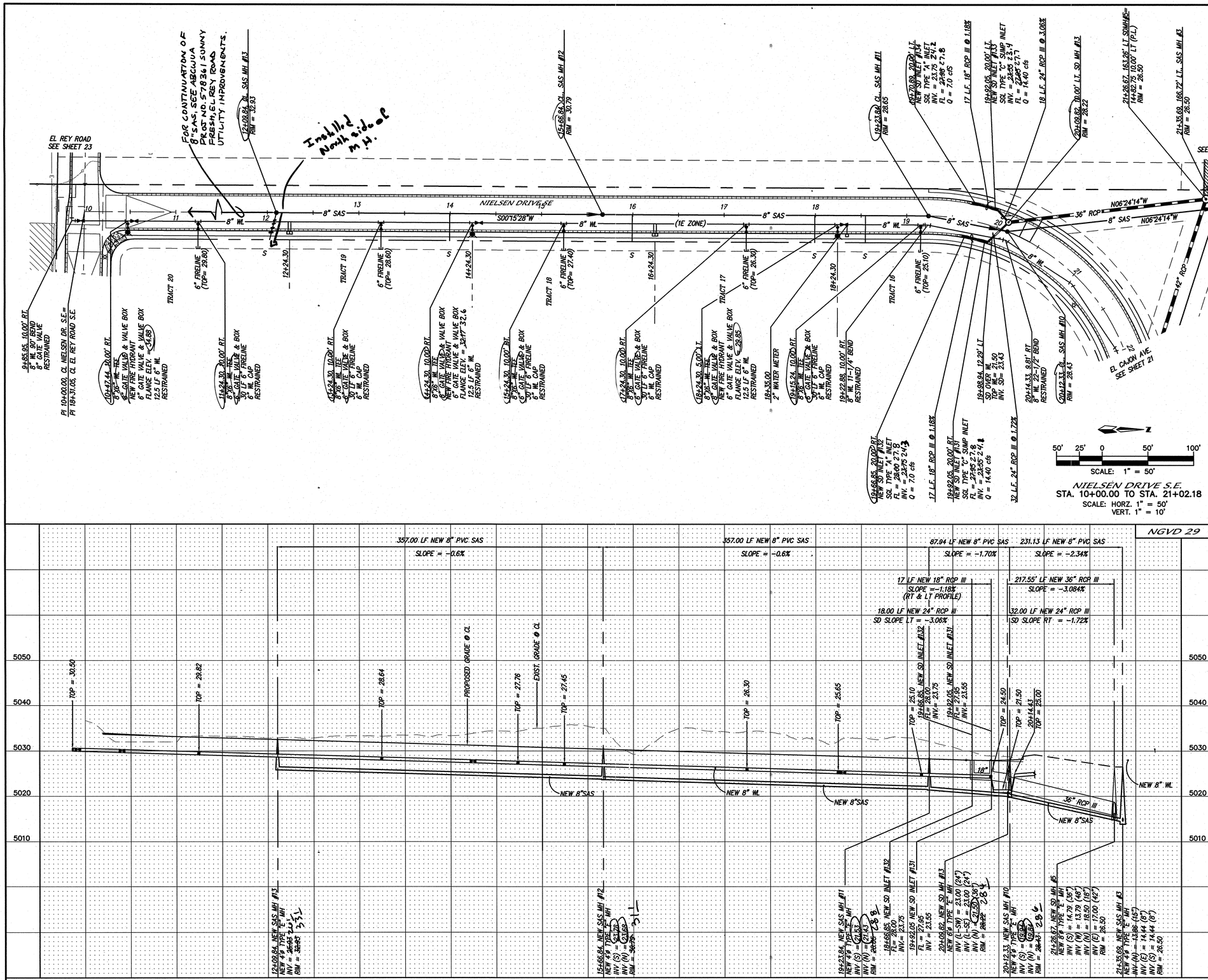
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK
TRACT 1 EASEMENT STORM/SAS
UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	777081	ZONE MAP NO.	SHEET	OF
B.C.P.W. NO.	50051	P-14-Z	19R	29

RECORD DRAWINGS



NOTES

1. ALL STATIONING IS BASED ON NIELSEN CENTERLINE.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. JURISDICTION AND WATERLINE AND SANITARY SEWER IS UNDER ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (A.B.C.W.U.A.) JURISDICTION.

SANITARY SEWER SERVICES

BLOCK	TRACT	STATION AT P.L.	INV. ELEV. AT P.L.	LENGTH AT P.L.
1	16	18+55.00	24.35	25.00'
1	17	18+00.00	24.15	25.00'
1	18	16+00.00	25.35	25.00'
1	19	14+00.00	26.55	25.00'
1	20	12+00.00	27.75	26.20'

STORM DRAIN SUMMARY TABLE

LOCATION		Q100	VELOCITY	UPSTREAM		DOWNSTREAM	
UPSTRM	DNSTRM	(cfs)	(fps)	GRD	HGL	GRD	HGL
MH#13	MH#5	42.8	10-13	128.43	124.2	126.50	121.20

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION "2-N14" IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,201.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DONALD WAYNE HOELZER
NEW MEXICO
11987
LICENSED PROFESSIONAL ENGINEER
11-14-08

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	DLH	10/07
DRAWN BY	KJS	10/07
CHECKED BY	DMG	10/07

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

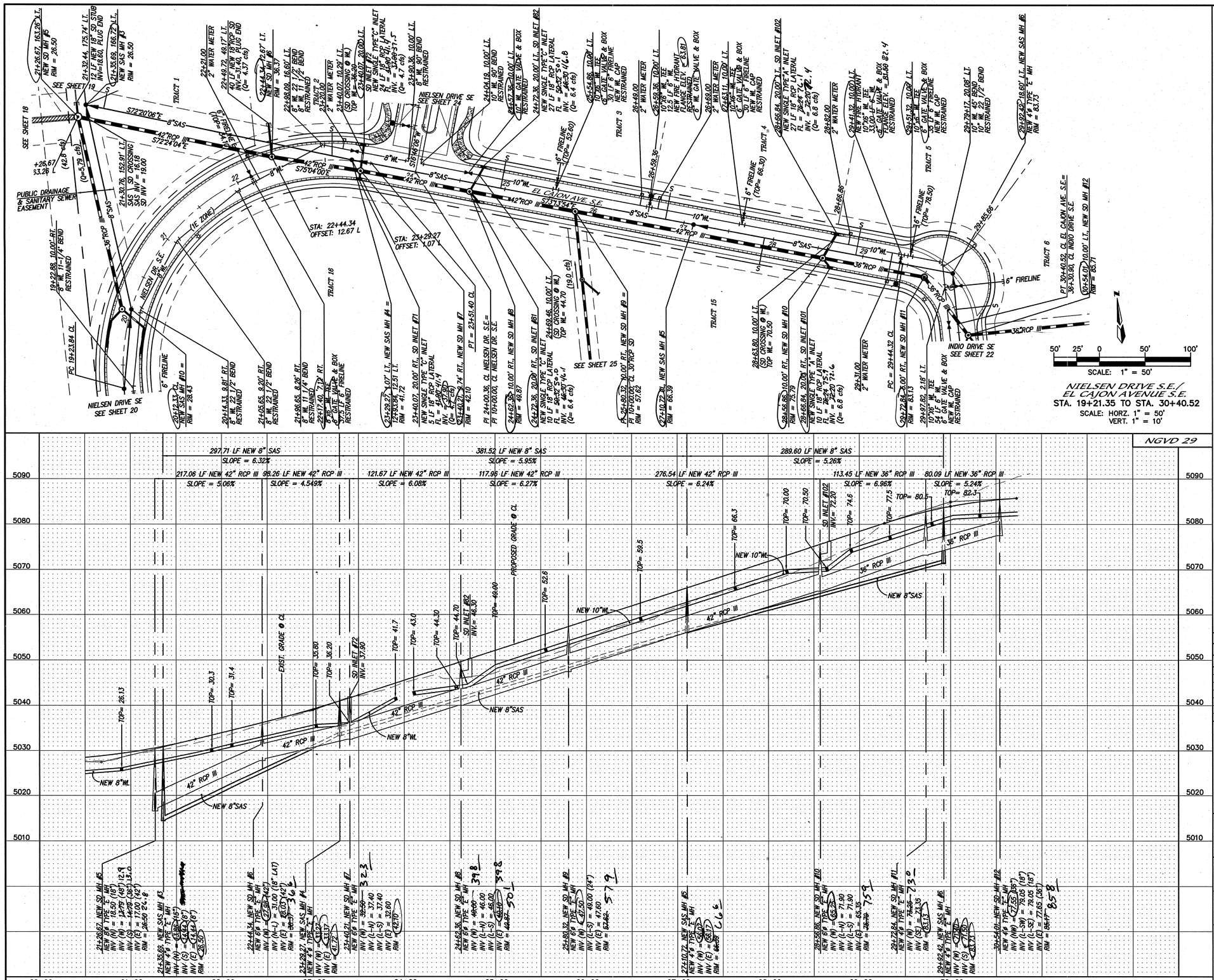
TITLE: NIELSEN INDUSTRIAL PARK
NIELSEN DRIVE SOUTH
UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	777081	ZONE MAP NO.	SHEET	OF
B.C.P.W. NO.	50051	P-14-Z	20R	29

A2138NIND/PLANS/REVISED PLANS/A2138UTPP_NIELSEN_R2.dwg/11/10/2008 KJS SLV CAR DER RFH RDQ

RECORD DRAWINGS



A2138NIND/PLANS/REVISED PLANS/A2138UTPP_CAJON-NIELSEN_R2/09-30-08 KJS SLV DER RFH RDQ

SCALE: 1" = 50'

NIELSEN DRIVE S.E./
EL CAJON AVENUE S.E.
STA. 19+21.35 TO STA. 30+40.52
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS BASED ON EL CAJON AVE. CENTERLINE.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. JURISDICTION AND WATERLINE AND SANITARY SEWER IS UNDER ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (A.B.C.W.U.A.) JURISDICTION.

SANITARY SEWER SERVICES

BLOCK	TRACT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
1	1 **	21+39.00	21.00	17.00
1	2	23+07.74	34.50	26.00'
1	3	24+95.00	45.33	30.00'
1	4	26+79.00	56.50	30.00'
1	5	28+92.00	67.81	30.00'
1	6	30+24.48	76.10	39.10'
1	15*	27+90.00	67.00	30.00'

* SAS SERVICE LINE OVER STORM DRAIN PIPE.
** END SAS SERVICE LINE AT EASEMENT LINE

STORM DRAIN SUMMARY TABLE

LOCATION		Q100	VELOCITY	UPSTREAM		DOWNSTREAM	
UPSTRM	DNSTRM	(cfs)	(fps)	GRD	HGL	GRD	HGL
MH#6	MH#5	195	20–24	136.37	130.7	126.50	119.50
MH#7	MH#6	191	25	142.10	135.1	136.37	130.70
MH#8	MH#7	181	25–26	149.87	142.5	142.10	135.10
MH#9	MH#8	168	24–26	157.62	149.9	149.87	142.50
MH#10	MH#9	150	23–27	175.79	167.5	157.62	149.90
MH#11	MH#10	136	23–26	183.13	175.7	175.79	167.50
MH#12	MH#11	136	19–22	185.17	180.52	183.13	175.70

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PWCO: 50051

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Carlesian Surveys Inc.	DATE
WORK INSPECTORS ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Carlesian Surveys Inc	DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM RECORDED BY		DATE
NO.		

BENCH MARKS

STATION "2-H14" IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-H14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,971.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DAVID HOELLER NEW MEXICO 11987 LICENSED PROFESSIONAL ENGINEER 10-17-11

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	DLH	10/07
DRAWN BY	KJS	10/07
CHECKED BY	DMG	10/07

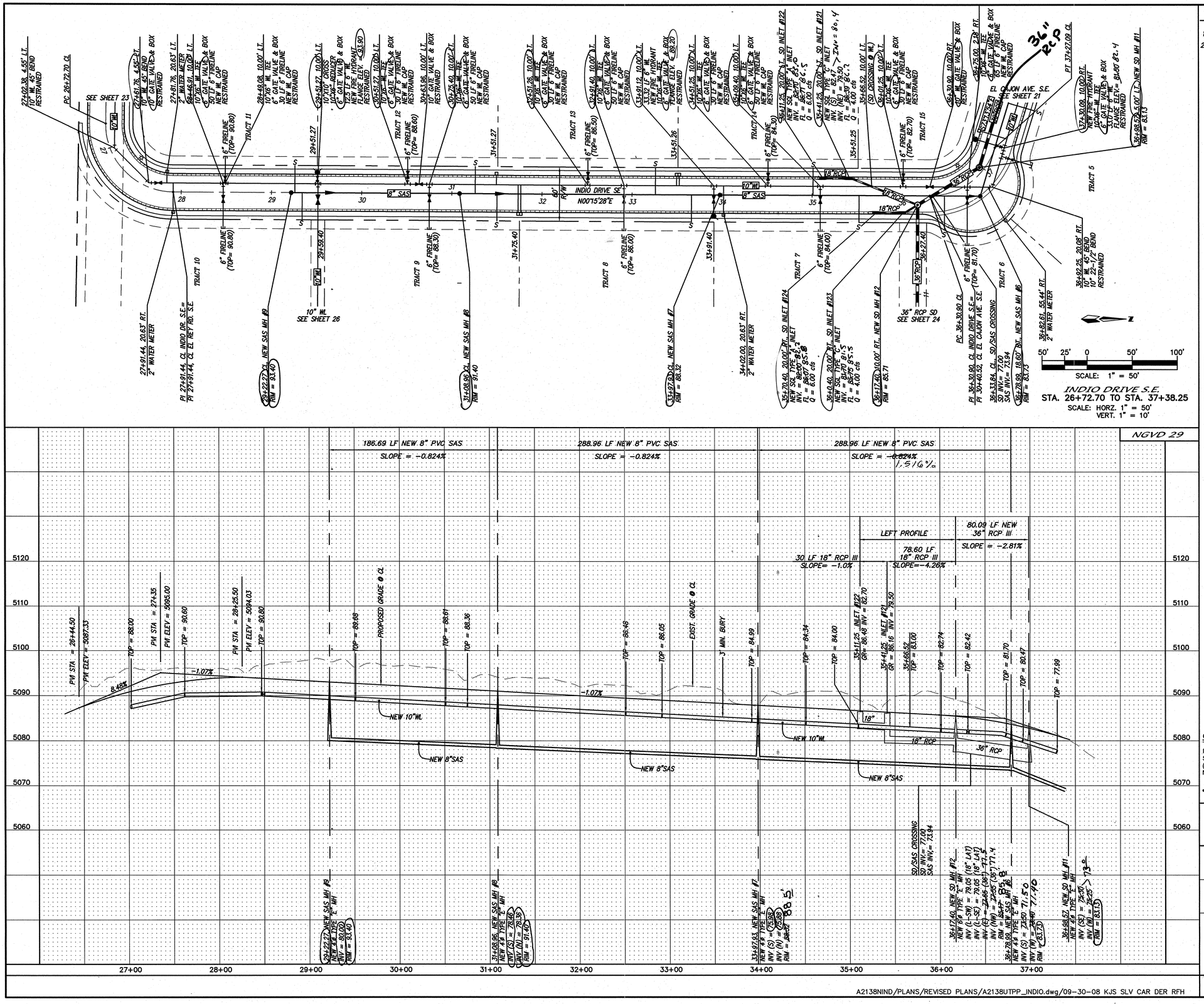
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *NIELSEN INDUSTRIAL PARK*
EL CAJON AVENUE S.E.
UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	777081	ZONE MAP NO.	SHEET	OF
B.C.P.W.	50051	P-14-Z	21R 29	

RECORD DRAWINGS



NOTES

1. ALL STATIONING IS BASED ON INDIO DRIVE CENTERLINE.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. JURISDICTION AND WATERLINE AND SANITARY SEWER IS UNDER ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (A.B.C.W.U.A.) JURISDICTION.

SANITARY SEWER SERVICES

BLOCK	TRACT	STATION AT P.L.	INV. ELEV. AT P.L.	LENGTH AT P.L.
1	6	36+47.00	76.10	37.94'
1	7	35+52.40	81.00	30.00'
1	8	33+66.40	83.00	30.00'
1	9	31+50.40	85.30	30.00'
1	10	29+34.40	87.50	30.00'
1	* 11	29+26.27	82.50	30.00'
1	* 12	31+26.27	80.70	30.00'
1	* 13	33+26.26	79.05	30.00'
1	* 14	35+01.25	78.50	30.00'

* TRACTS 11, 12, 13, 14, & 15 WILL BE REQUIRED TO PUMP SEWAGE TO SANITARY SEWER SERVICE INVERT @ P.L. DUE TO LOW ONSITE GRADES.

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT.
STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=391,735.28, Y=1,487,2012.41 (NAD 1927) ELEV.=4,973.259 (NGVD29).

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NEIL G. MOELLER
NEW MEXICO
11967
LICENSED PROFESSIONAL ENGINEER
4-30-08

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK
INDIO DRIVE S.E.
UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
777081	P-14-Z	22	29

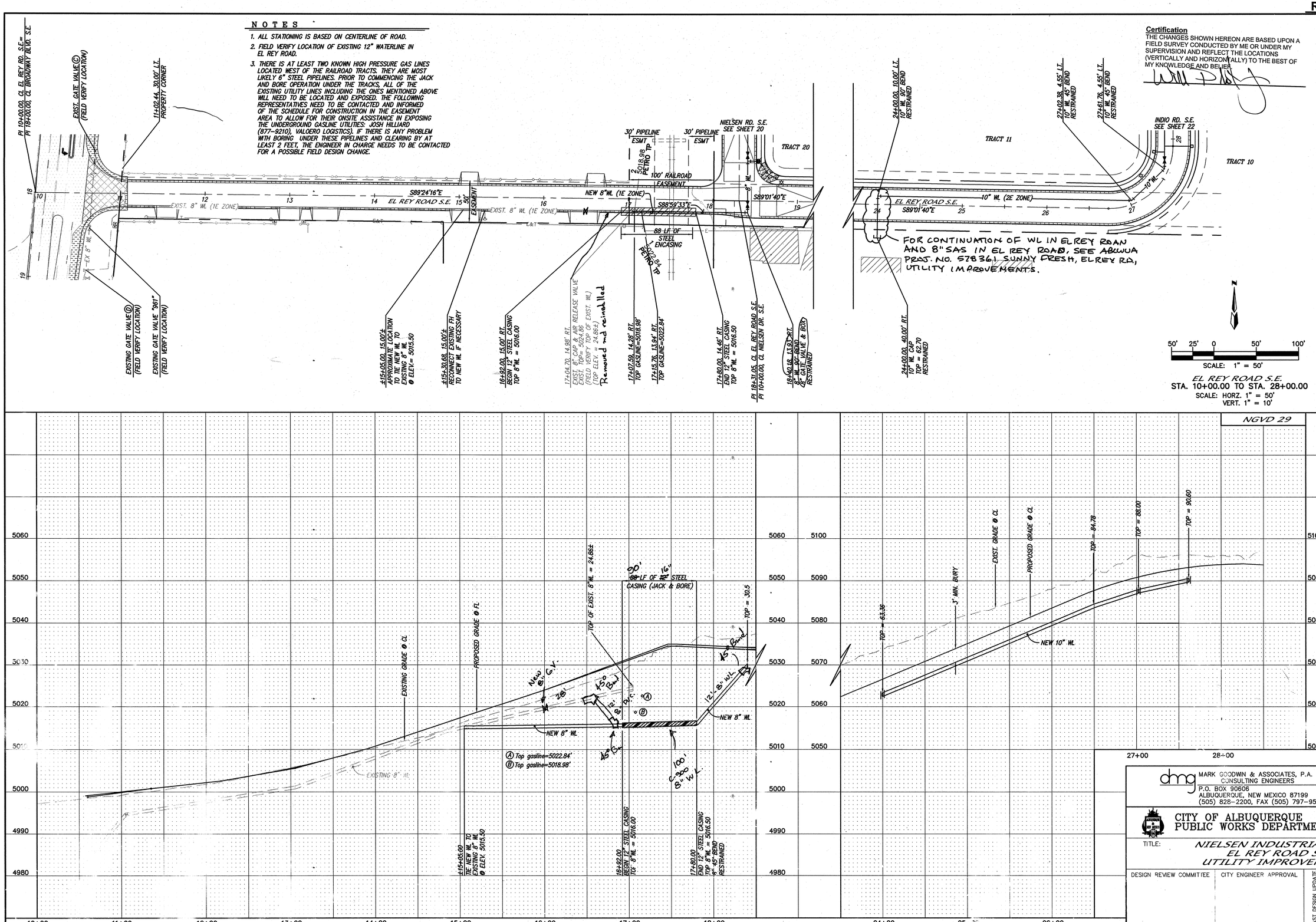
B.C.P.W. NO. 50051

A2138NIND/PLANS/REVISED PLANS/A2138UTPP_INDIO.dwg/09-30-08 KJS SLV CAR DER RFH

RECORD DRAWINGS

NOTES

1. ALL STATIONING IS BASED ON CENTERLINE OF ROAD.
2. FIELD VERIFY LOCATION OF EXISTING 12" WATERLINE IN EL REY ROAD.
3. THERE IS AT LEAST TWO KNOWN HIGH PRESSURE GAS LINES LOCATED WEST OF THE RAILROAD TRACTS. THEY ARE MOST LIKELY 6" STEEL PIPELINES. PRIOR TO COMMENCING THE JACK AND BORE OPERATION UNDER THE TRACKS, ALL OF THE EXISTING UTILITY LINES INCLUDING THE ONES MENTIONED ABOVE WILL NEED TO BE LOCATED AND EXPOSED. THE FOLLOWING REPRESENTATIVES NEED TO BE CONTACTED AND INFORMED OF THE SCHEDULE FOR CONSTRUCTION IN THE EASEMENT AREA TO ALLOW FOR THEIR ONSITE ASSISTANCE IN EXPOSING THE UNDERGROUND GASLINE UTILITIES: JOSH HILLIARD (877-9210), VALDERO LOGISTICS). IF THERE IS ANY PROBLEM WITH BORING UNDER THESE PIPELINES AND CLEARING BY AT LEAST 2 FEET, THE ENGINEER IN CHARGE NEEDS TO BE CONTACTED FOR A POSSIBLE FIELD DESIGN CHANGE.



Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S CHANGES BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANNE NOELLER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER

REMARKS / REVISIONS

NO.	DATE	REMARKS	BY

		DATE
DESIGNED BY	DLH	11/07
DRAWN BY	KJS	11/07
CHECKED BY	DMG	11/07

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK
EL REY ROAD S.E.
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

PROJECT NO. 777081 | MAP NO. P-14-Z | SHEET 23R 29

A2138NIND/PLANS/REVISED PLANS/A2138UTPP_ELREYENTRY_R1/11-19-08 KJS SLV DER RFH RDQ DLH

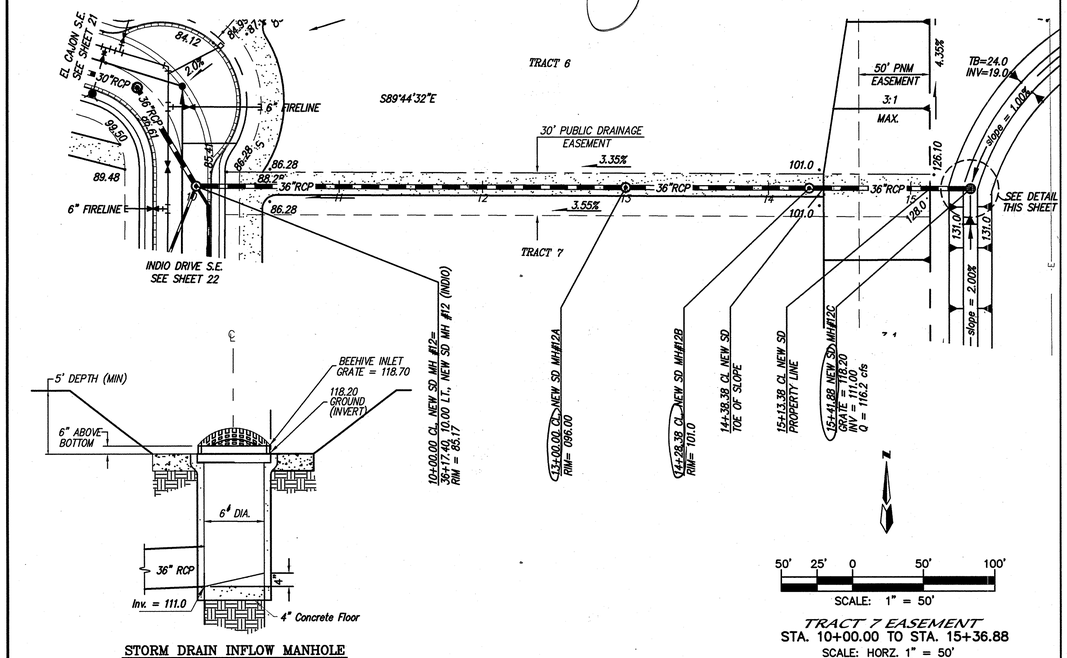
RECORD DRAWINGS

STORM DRAIN SUMMARY TABLE							
LOCATION		Q100	VELOCITY	UPSTREAM		DOWNSTREAM	
UPSTRM	DNSTRM	(cfs)	(fps)	GRD	HGL	GRD	HGL
MH#12A	MH#12	116.2	22.7	196.0	191.00	185.17	183.44
MH#12B	MH#12A	116.2	28.0	201.0	195.70	196.00	191.00
MH#12C	MH#12B	116.2	26.6	218.0	113.90	201.00	195.70

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTES

1. ALL STATIONING IS ALONG SD PIPE.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. AND WATERLINE AND SANITARY SEWER IS UNDER A.B.C.W.U.A JURISDICTION.

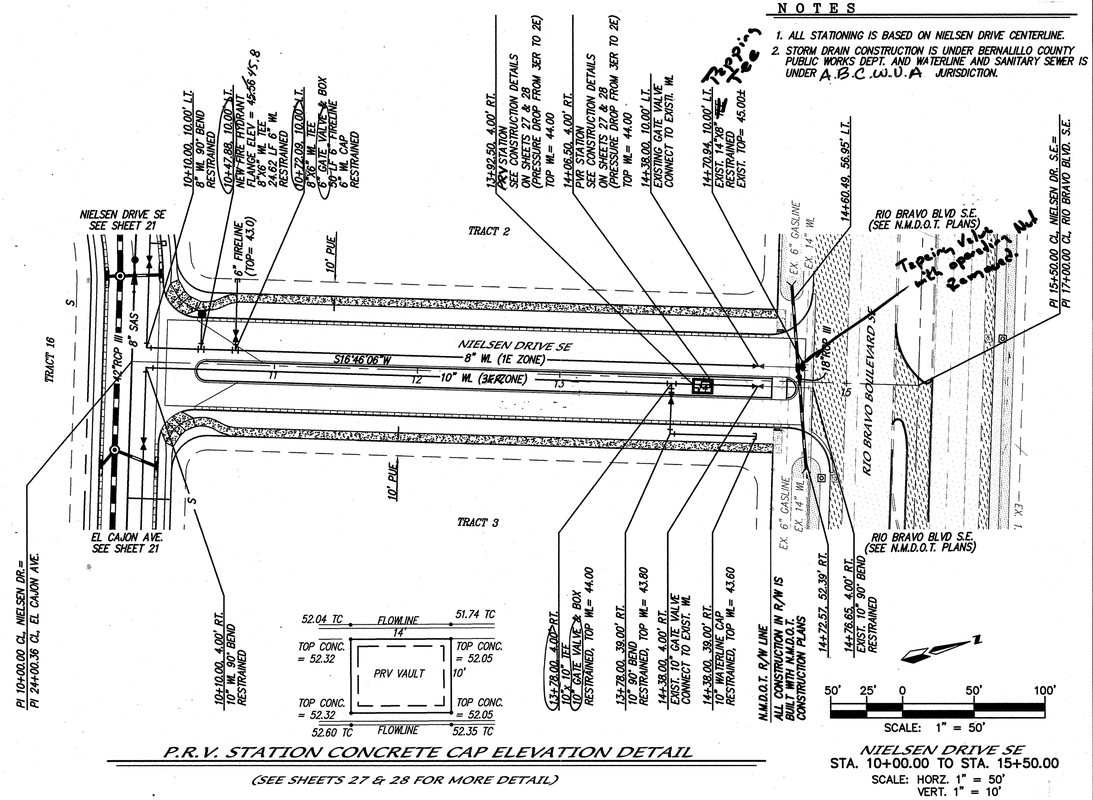


STORM DRAIN INFLOW MANHOLE
N.T.S.

TRACT 7 EASEMENT
STA. 10+00.00 TO STA. 15+36.88
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

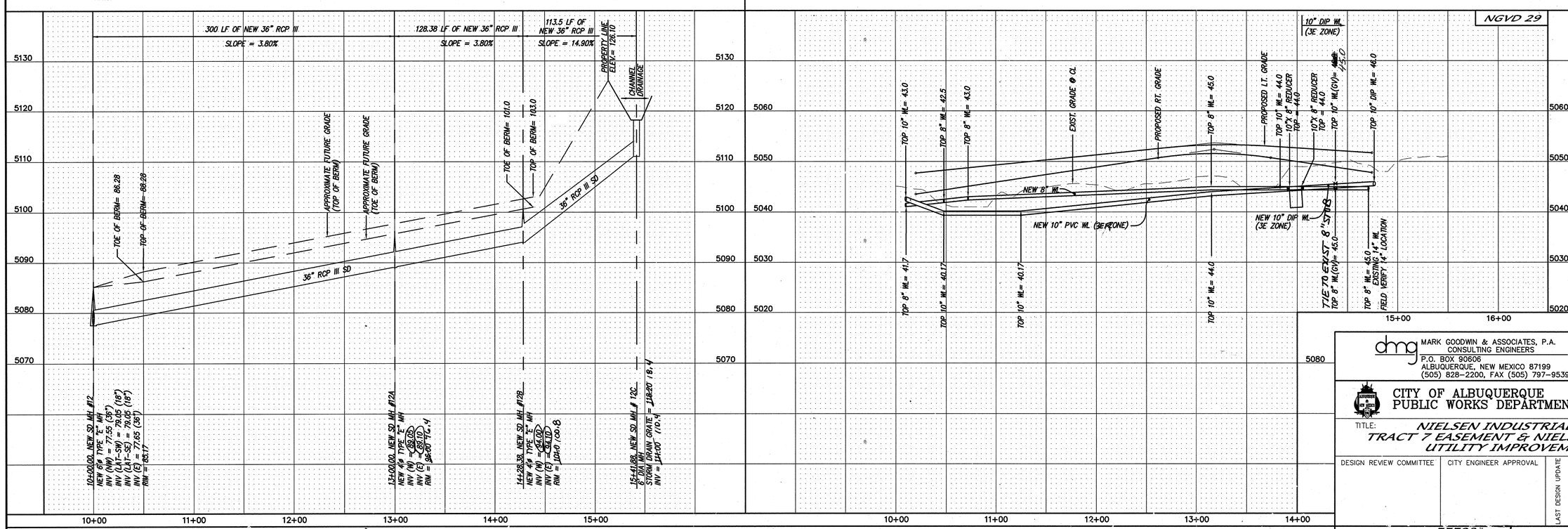
NOTES

1. ALL STATIONING IS BASED ON NIELSEN DRIVE CENTERLINE.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. AND WATERLINE AND SANITARY SEWER IS UNDER A.B.C.W.U.A JURISDICTION.



P.R.V. STATION CONCRETE CAP ELEVATION DETAIL
(SEE SHEETS 27 & 28 FOR MORE DETAIL)

NIELSEN DRIVE SE
STA. 10+00.00 TO STA. 15+50.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



A2138NIND/PLANS/Revised Plans/A2138UTPP_TRACT7-NIELSEN.dwg/11-08-07 KJS SLV CAK DER RFH RDQ

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Cartesian Survey	DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "2-N14" IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DANE HOELZER NEW MEXICO 11967 LICENSED PROFESSIONAL ENGINEER
11-15-07

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	DLH	DATE 11/07
DRAWN BY	KJS	DATE 11/07
CHECKED BY	DMG	DATE 11/07

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

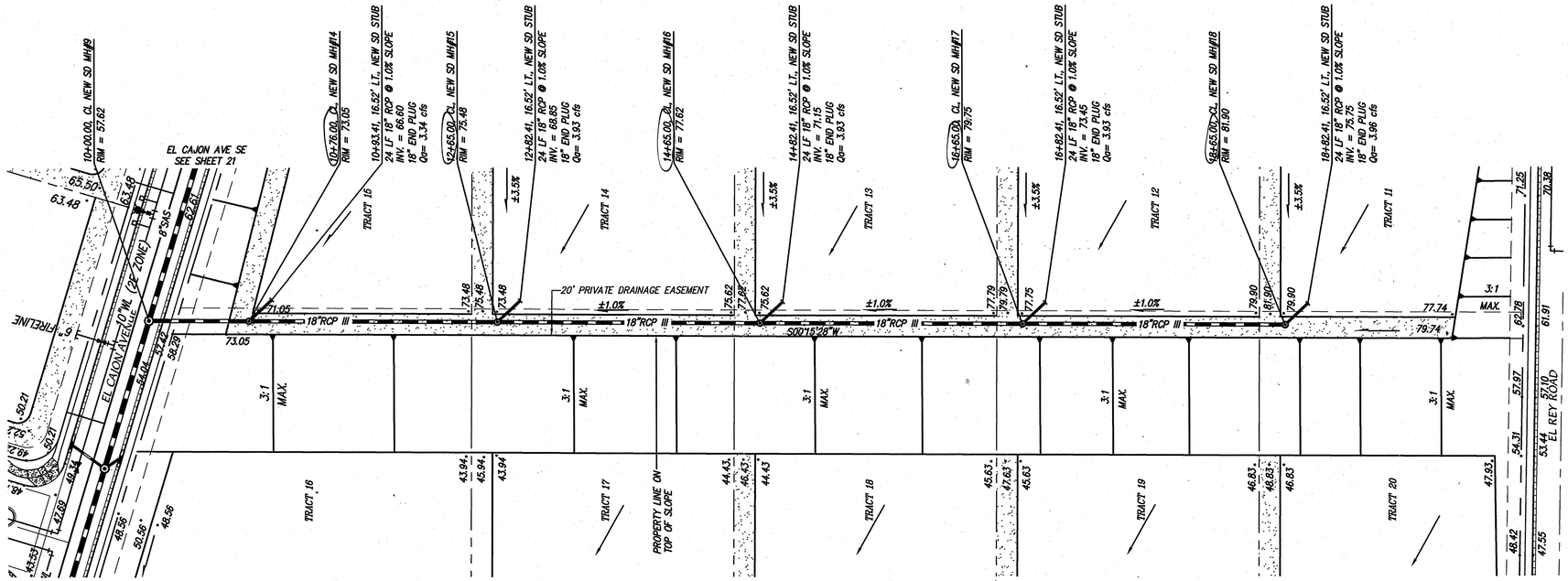
TITLE: NIELSEN INDUSTRIAL PARK
TRACT 7 EASEMENT & NIELSEN DRIVE SE
UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	777081	ZONE MAP NO.	SHEET	OF
B.C.P.W.	50051	P-14-Z	24	29

F:\A02JOBS\A2138NIND\PLANS\Revised Plans\A2138UTPP_TRACT7-NIELSEN.dwg, 11/8/2007 1:57:58 PM, PLOTTED BY RDQ

RECORD DRAWINGS



NOTES

1. ALL STATIONING IS BASED ON CENTERLINE OF NEW 24" RCP.
2. STORM DRAIN CONSTRUCTION IS UNDER BERNALILLO COUNTY PUBLIC WORKS DEPT. AND WATERLINE AND SANITARY SEWER IS UNDER CITY OF ALBUQUERQUE JURISDICTION.

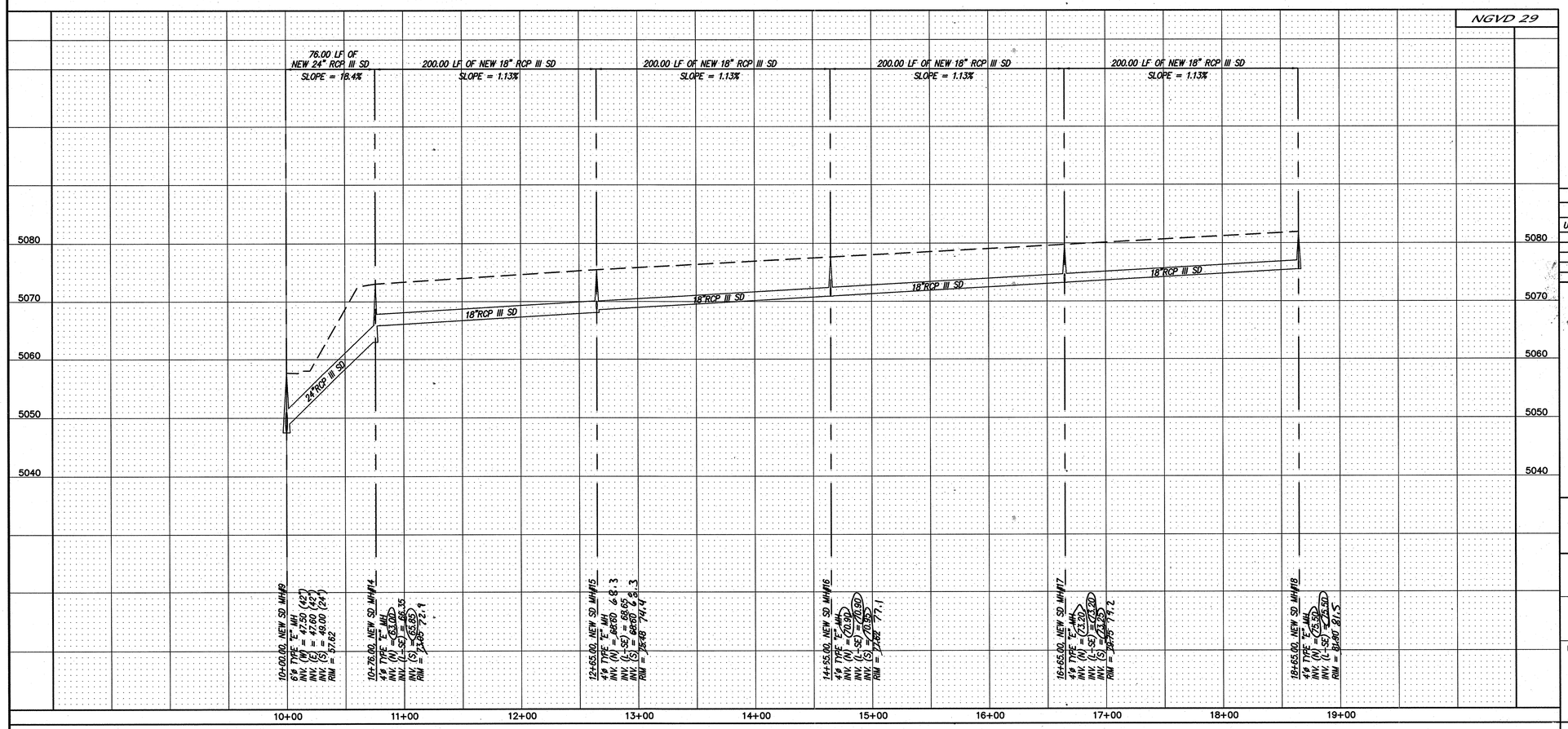
DENOTES BERM LOCATION (TYPICAL) SEE GRADING & DRAINAGE PLAN FOR MORE DETAIL

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

TRACTS 11 - 15
STA. 10+00.00 TO STA. 18+65.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



STORM DRAIN SUMMARY TABLE

LOCATION		Q100	VELOCITY	UPSTREAM		DOWNSTREAM	
UPSTRM	DNSTRM	(cfs)	(fps)	GRD	HGL	GRD	HGL
MH#14	MH#9	19.0	20.0	173.05	163.7	157.62	149.6
MH#15	MH#14	15.8	8.9	175.48	171.8	173.05	167.3
MH#16	MH#15	11.8	6.7	177.62	175.3	175.48	172.8
MH#17	MH#16	7.9	4.5	179.75	177.2	177.62	176.0
MH#18	MH#17	3.9	2.2	181.90	177.8	179.75	177.5

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S CHANGES BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "2-N14" IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DARYL HOELLER NEW MEXICO 119827 LICENSED PROFESSIONAL ENGINEER 1-2-08

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

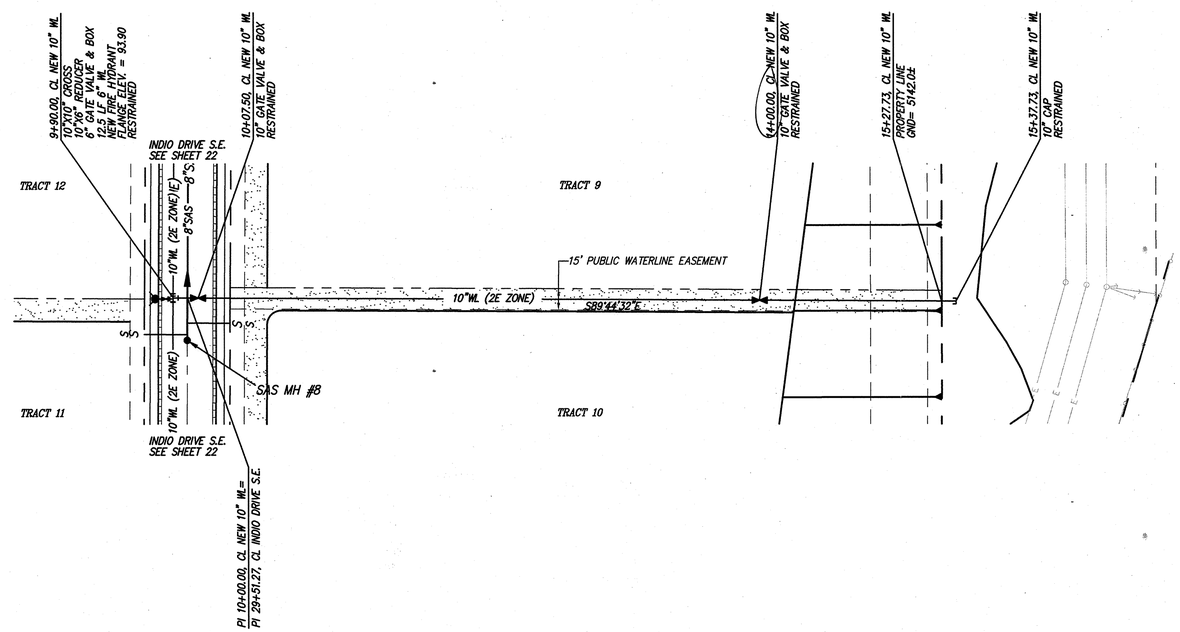
TITLE: NIELSEN INDUSTRIAL PARK
TRACTS 11 - 15 EASEMENT
STORM DRAIN IMPROVEMENTS

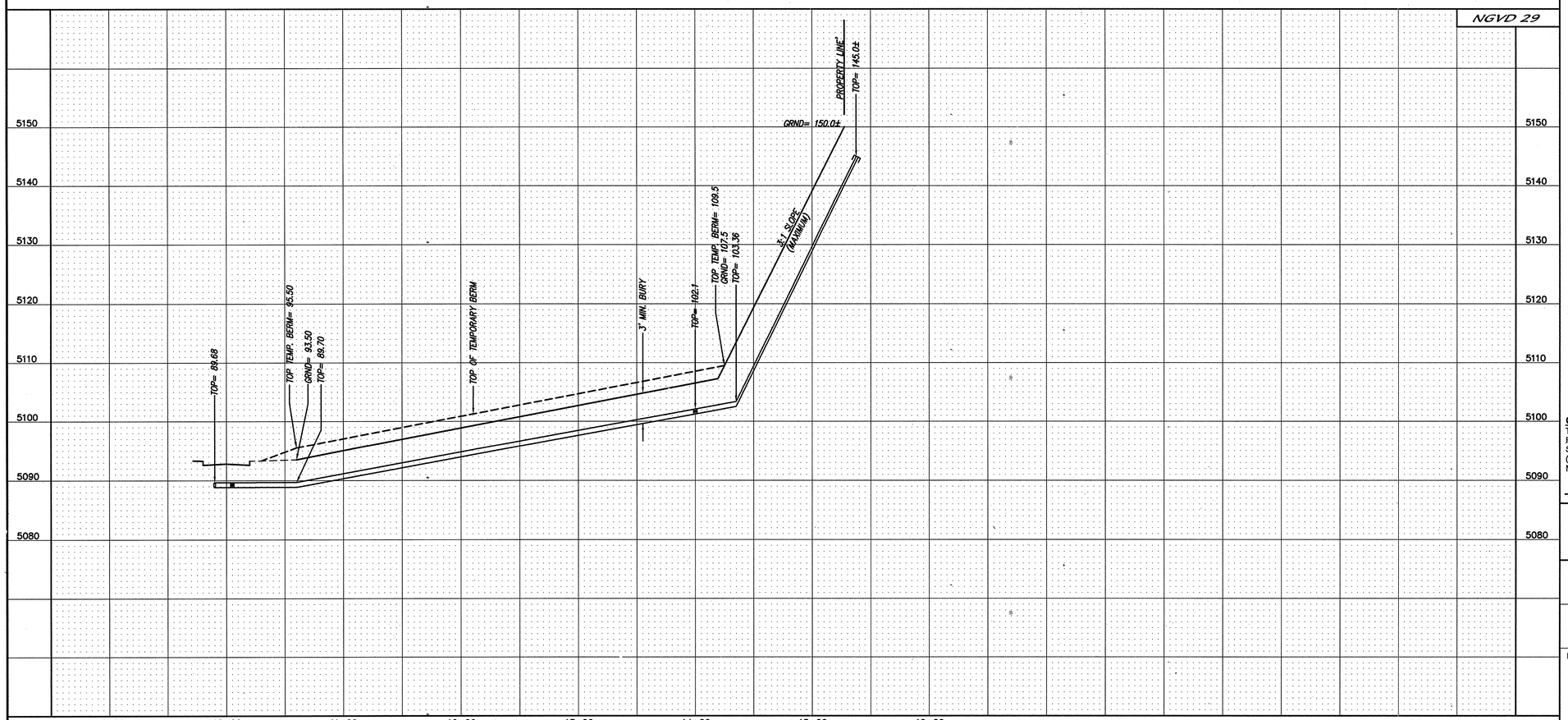
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
777081	P-14-Z	25	29
B.C.P.W. NO. 50051			

A2138NIND/PLANS/REVISED PLANS/A2138UP_SD2.dwg/01-4-08 DER RFH

RECORD DRAWINGS





N

50' 25' 0 50' 100'

SCALE: 1" = 50'

TRACT 10
STA. 9+90.00 TO STA. 15+37.73
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS BASED ON CENTERLINE OF NEW 10" WATERLINE.

DENOTES BERM LOCATION (TYPICAL) SEE GRADING & DRAINAGE PLAN FOR MORE DETAIL

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
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P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY	Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY	Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY		DATE
NO.		

BENCH MARKS

STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 11987 LICENSED PROFESSIONAL ENGINEER

11-15-07

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	DLH	DATE 02/07
DRAWN BY	DER	DATE 02/07
CHECKED BY	DMG	DATE 02/07

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK
TRACT 10 WATERLINE EASEMENT
UTILITY IMPROVEMENTS

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

CITY PROJECT NO.	777081	ZONE MAP NO.	SHEET	OF
B.C.P.W.	50051	P-14-Z	26	29

A2138NIND/PLANS/REVISED PLANS/A2138UP_TRACT10.dwg/11-06-07 DER RDQ

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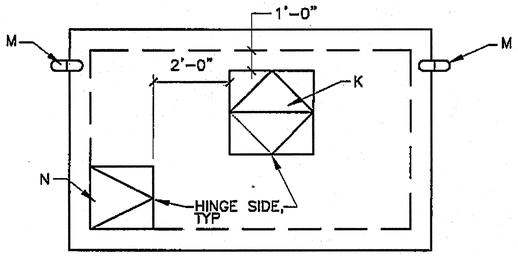
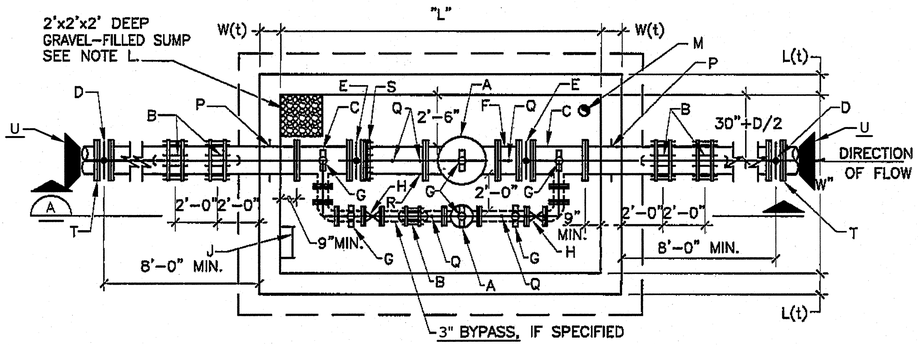
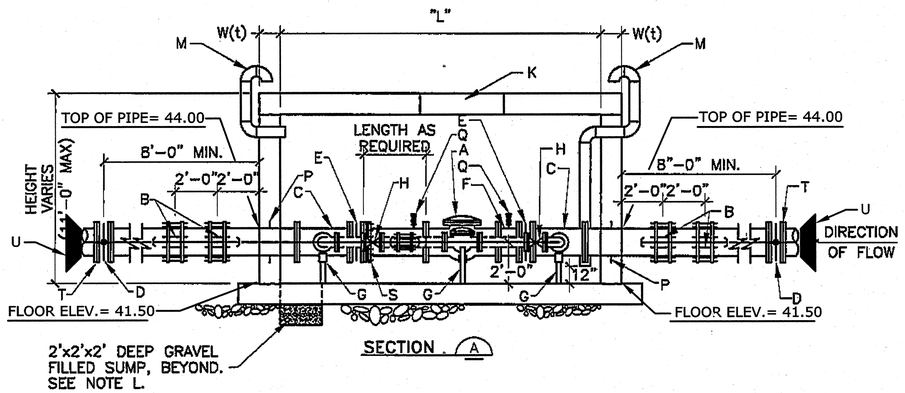
RECORD DRAWINGS



TOP PLAN



INTERIOR PLAN



SECTION A

GENERAL NOTES:

1. FOR STRUCTURAL DETAILS, VAULT DIMENSIONS AND REINFORCING SEE STANDARD PRV STATION STRUCTURAL DETAILS DWG. 2357.

CONSTRUCTION NOTES:

1. PRV LOCATION, FINAL DESIGN AND LAYOUT SHALL BE APPROVED BY THE WATER UTILITY DIVISION TO CONFORM WITH SPECIFIC SYSTEM AND SITE REQUIREMENTS.
2. PRV STATION ACCESS OPENING COVERS SHOWN ON THIS STANDARD DETAIL ARE SUITABLE FOR LOCATIONS NOT EXPOSED TO CONTINUOUS HIGH DENSITY TRAFFIC. IF PRV STATION MUST BE LOCATED IN AREAS OF CONTINUOUS HIGH DENSITY TRAFFIC THE ACCESS OPENING COVERS SHALL BE SPECIFICALLY DESIGNED TO WITHSTAND THE CONDITIONS AND LOADINGS TO BE ENCOUNTERED.
3. ALUMINUM FLOOR DOORS AND FRAME FOR LOCATIONS SUBJECT TO INTERMITTENT AND LIGHT DENSITY TRAFFIC SHALL BE DESIGNED TO WITHSTAND A LIVE LOAD OF THE AASHTO H-20 DESIGNATION AND SHALL BE FLUSH WITH TOP OF VAULT.
4. ALUMINUM FLOOR DOORS AND FRAMES FOR LOCATIONS OUT OF ROADWAYS AND NOT SUBJECT TO TRAFFIC LOADINGS SHALL BE DESIGNED TO WITHSTAND A LIVE LOAD OF 300 POUNDS PER SQUARE FOOT AND SHALL EXTEND 3-INCHES MINIMUM ABOVE TOP OF VAULT.
5. 6-INCH VENT PIPING SHALL BE ROUTED SUCH THAT THE ABOVE GROUND GOOSENECK AND INSECT SCREEN ARE LOCATED OUT OF VEHICULAR OR PEDESTRIAN TRAFFIC AREAS.

A PRESSURE REDUCING VALVE, AS SPECIFIED (8" PRV - THIS PROJECT) (3" PRV - BYPASS - THIS PROJECT)

B FLEXIBLE COUPLING WITH THRUST TIES, SEE THRUST TIE DETAIL ON DWG. 2358 (8")

C FLANGED TEE, REQUIRED ONLY IF BYPASS SPECIFIED (8"x3" TEE - THIS PROJECT)

D BURIED BUTTERFLY VALVE (GATE VALVE FOR SIZE < 14") (8" GATE VALVE - THIS PROJECT)

E BUTTERFLY VALVE WITH HAND WHEEL OPERATOR (GATE VALVE FOR SIZE < 8"), REQUIRED ONLY WHEN BYPASS IS SPECIFIED. (8" BUTTERFLY VALVE - THIS PROJECT)

F FLANGED SPOOL, LENGTH = 1'-0"

G ADJUSTABLE PIPE SADDLE SUPPORT, GRINNELL FIG. 264, ELCEN FIG. 50 OR EQUAL, TYPICAL

H GATE VALVE WITH HAND WHEEL OPERATOR, REQUIRED ONLY IF BYPASS SPECIFIED (3" BYPASS - THIS PROJECT)

J 1'-6" WIDE ALUMINUM LADDER W/LADDER UP SAFETY POST PER OSHA STANDARDS.

K ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. DOOR SIZE SHALL BE 4'x4' DOUBLE LEAF (WITHOUT BYPASS) AND 4'x6' DOUBLE LEAF (WITH BYPASS). HARDWARE AND HINGES SHALL BE 304 STAINLESS STEEL. BILCO TYPE JD, OR EQUAL.

L GRAVEL PER ASTM C33, NO. 57 GRAVEL.

M 6" STEEL PIPE W/GOOSENECK AND INSECT SCREEN

N 3'-0" SQ ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. HARDWARE AND HINGES SHALL BE 304 STAINLESS STEEL. BILCO TYPE J, OR EQUAL.

P WALL PIPE WITH THRUST COLLAR, CENTER IN WALL

Q 1/2" PIPE TAP WITH 1/2" BALL VALVE AND CAP

R D.I. SPOOL FLG. x P.E.

S MEGA FLANGE – FLANGE ADAPTER, AS MANUFACTURED BY EBAA IRON SALES, OR APPROVED EQUAL.

T INSULATING FLANGE KIT.

U 10"x 8" REDUCER

V 8" PRV AND 3" PRV SHALL BE MANUFACTURED BY CLA-VAL COMPANY.

REVISIONS	CITY OF ALBUQUERQUE WATER STANDARD PRV STATION NO METER DWG. 2354 JANUARY 2003

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD DRAWINGS CORRECTION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=4,973.259 (NGVD29).

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DUANE HOELZER NEW MEXICO 11980 LICENSED PROFESSIONAL ENGINEER
8-27-07

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	DLH	09/01
DRAWN BY	ACH	09/01
CHECKED BY	DMG	09/01

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK (3E TO3ERZONE) PRV STATION DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET OF
777081	P-14-Z	27 29

A02jobs/A2138NIND/PLANS/REVISED PLANS/A2138-PRVDETAIL.dwg/08-27-07/ DER RFH

F:\A02JOBS\A2138NIND\PLANS\Revised Plans\A2138-PRVDETAIL.dwg, 8/30/2007 4:11:30 PM, PLOTTED BY: RFH

RECORD DRAWINGS

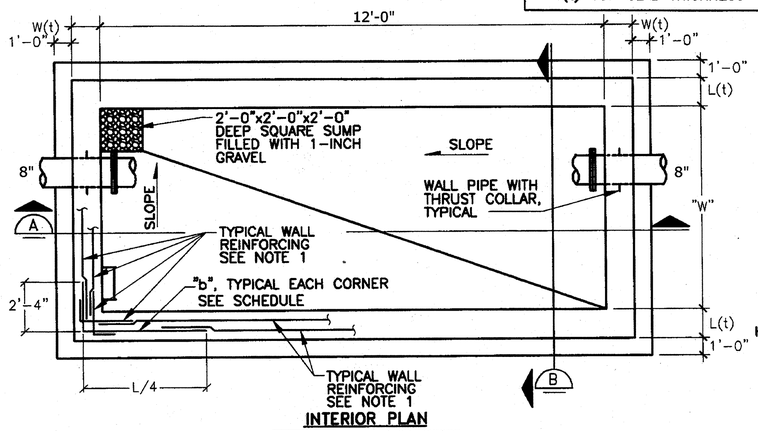
PRV VAULT DIMENSION AND REINFORCING SCHEDULE

"L"=VAULT LENGTH
"W"=VAULT WIDTH

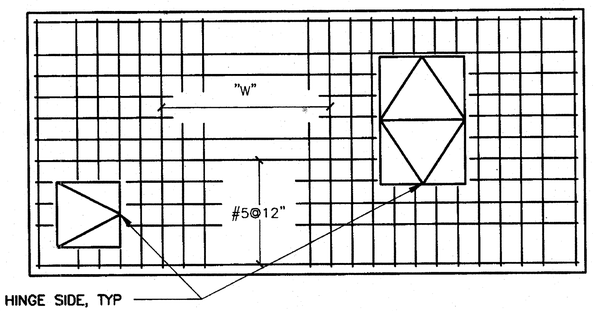
	PIPE SIZE	STANDARD PRV NO METER, NO BYPASS		STANDARD PRV NO METER, W/BYPASS		WITH PROPELLER METER AND NO BYPASS		WITH PROPELLER METER AND BYPASS		WITH MAGNETIC FLOW METER AND BYPASS		WALL THICKNESS		TOP THICKNESS TRAFFIC	TOP THICKNESS NONTRAFFIC	WALL REINFORCING WITHOUT BYPASS			WALL REINFORCING WITH BYPASS		
	(IN)	"L"	"W"	"L"	"W"	"L"	"W"	"L"	"W"	"L"	"W"	L(t)	W(t)	T(t)	T(t)	"L" a	"W" a	b	"L" a	"W" a	b
	6	10'-6"	5'-6"	11'-8"	8'-0"	10'-6"	5'-6"	14'-6"	8'-0"	15'-8"	8'-6""	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	TYPICAL	TYPICAL	#5 @ 6"	TYPICAL	#6 @ 12"
THIS PROJECT →	8	10'-6"	5'-8"	12'-0"	8'-2"	10'-6"	5'-8"	15'-4"	8'-2"	16'-2"	8'-8"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	TYPICAL	TYPICAL	#5 @ 6"	TYPICAL	#6 @ 12"
	10	10'-6"	5'-10"	13'-0"	8'-4"	11'-4"	5'-10"	17'-4"	8'-4"	17'-4"	8'-10"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	#6 @ 12"	TYPICAL	#5 @ 6"	#6 @ 12"	#6 @ 12"
	12	10'-6"	6'-0"	13'-8"	8'-6"	12'-8"	6'-0"	19'-0"	8'-6"	18'-4"	9'-0"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	#6 @ 12"	TYPICAL	#5 @ 6"	#6 @ 12"	#6 @ 12"
	14	10'-6"	6'-2"	14'-9"	8'-8"	14'-3"	6'-2"	21'-6"	8'-8"	20'-2"	9'-2"	1'-0"	1'-2"	1'-0"	0'-8"	#5 @ 6"	#5 @ 6"	#6 @ 12"	#5 @ 6"	#5 @ 6"	#6 @ 12"
	16	10'-6"	6'-4"	15'-4"	8'-10"	16'-6"	6'-4"	24'-2"	8'-10"	21'-0"	9'-4"	1'-0"	1'-2"	1'-0"	0'-8"	#5 @ 6"	#5 @ 6"	#6 @ 12"	#5 @ 6"	#5 @ 6"	#6 @ 12"

DIMENSIONAL NOTES:
"L"=VAULT LENGTH
"W"=VAULT WIDTH
L(t)=WALL THICKNESS(LENGTH)
W(t)=WALL THICKNESS(WIDTH)
T(t)=TOP SLAB THICKNESS

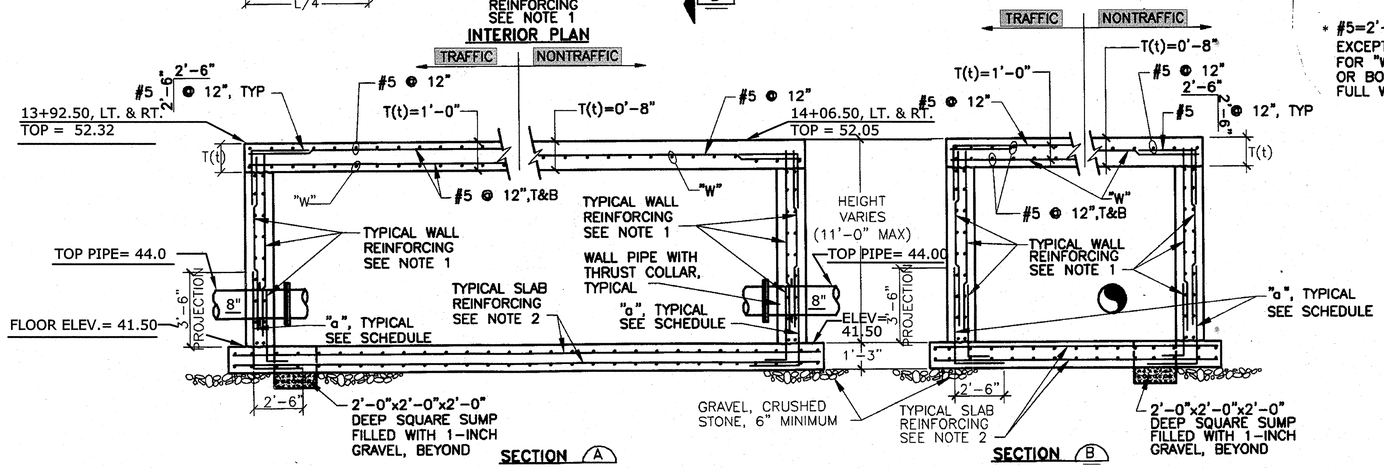
WALL REINFORCING NOTES:
1. "a" BAR DESIGNATION REPRESENTS WALL DOWELS PROTRUDING VERTICALLY FROM BASE SLAB ALONG LENGTHWISE DIMENSION "L" OR WIDTH DIMENSION "W".
2. "b" BAR DESIGNATION REPRESENTS ADDITIONAL HORIZONTAL WALL CORNER REINFORCING.



INTERIOR PLAN



TOP PLAN



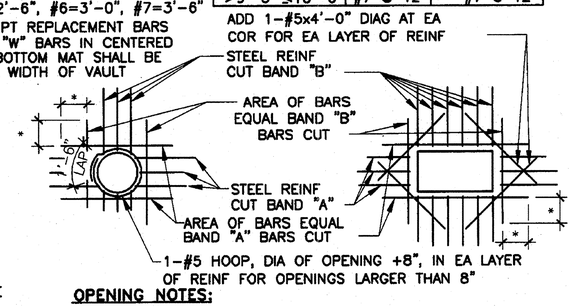
SECTION A

SECTION B

GENERAL NOTES:
1. TYPICAL WALL REINFORCING SHALL BE #5 @ 12" O.C., EACH WAY, EACH FACE UNLESS SHOWN OTHERWISE ON THE SCHEDULE. PROVIDE BARS AS INDICATED ON THE SCHEDULE AND LAP WITH #5 @ 12" FOR REMAINDER OF WALL HEIGHT OR LENGTH.
2. TYPICAL BASE SLAB REINFORCING SHALL BE #5 @ 12" EACH WAY, TOP AND BOTTOM OF SLAB.
3. CONCRETE SHALL BE IN ACCORDANCE WITH STD SPECIFICATION SECTION 510 WITH F'c = 4000 PSI. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. IF THE DEPTH OF VAULT EXCEEDS THE 11'-0" MAXIMUM DEPTH SHOWN, THE ENGINEER/CONTRACTOR SHALL DESIGN THE REINFORCEMENT, WALL AND FLOOR THICKNESSES TO SUIT THE SPECIFIC CONDITIONS. ALL STRUCTURAL MODIFICATIONS SHALL BE PERFORMED AND STAMPED BY A LICENSED NEW MEXICO PROFESSIONAL ENGINEER.

VAULT TOP REINFORCING		
VAULT DIMENSION	REINFORCING T(t)=0'-8" CENTERED MAT	REINFORCING T(t)=1'-0" BOTTOM MAT
"W"	"W"	"W"
≤6'-0"	#5 @ 12"	#5 @ 12"
>6'-0" ≤7'-0"	#5 @ 12"	#6 @ 12"
>7'-0" ≤9'-0"	#6 @ 12"	#7 @ 12"
>9'-0" ≤10'-0"	#7 @ 12"	#7 @ 12"

* #5=2'-6", #6=3'-0", #7=3'-6" EXCEPT REPLACEMENT BARS FOR "W" BARS IN CENTERED OR BOTTOM MAT SHALL BE FULL WIDTH OF VAULT



OPENING NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.

REVISIONS	CITY OF ALBUQUERQUE
	WATER
	STANDARD PRV STATION STRUCTURAL DETAILS
	DWG. 2357 JANUARY 2002

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION "2-N14 IS LOCATED 3.9 MILES SOUTH OF DOWNTOWN ALBUQUERQUE. TO REACH STATION FROM INTERSECTION SECTION OF BROADWAY BLVD. AND CENTRAL AVE., GO SOUTH ON BROADWAY BLVD. 3.7 MILES TO THE STATION ON THE LEFT. STATION MARK IS A STANDARD ACS 3 1/4" ALUMINUM CAP STAMPED "2-N14", X=381,735.28, Y=1,467,2012.41 (NAD 1927) ELEV=6,973.259 (NGVD29).

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DUANE HOELZER
NEW MEXICO
11987
LICENSED PROFESSIONAL ENGINEER
8-15-07

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	DLH	09/01
DRAWN BY	ACH	09/01
CHECKED BY	DMG	09/01

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: NIELSEN INDUSTRIAL PARK (3E TO 3ERZONE) PRV STATION DETAILS

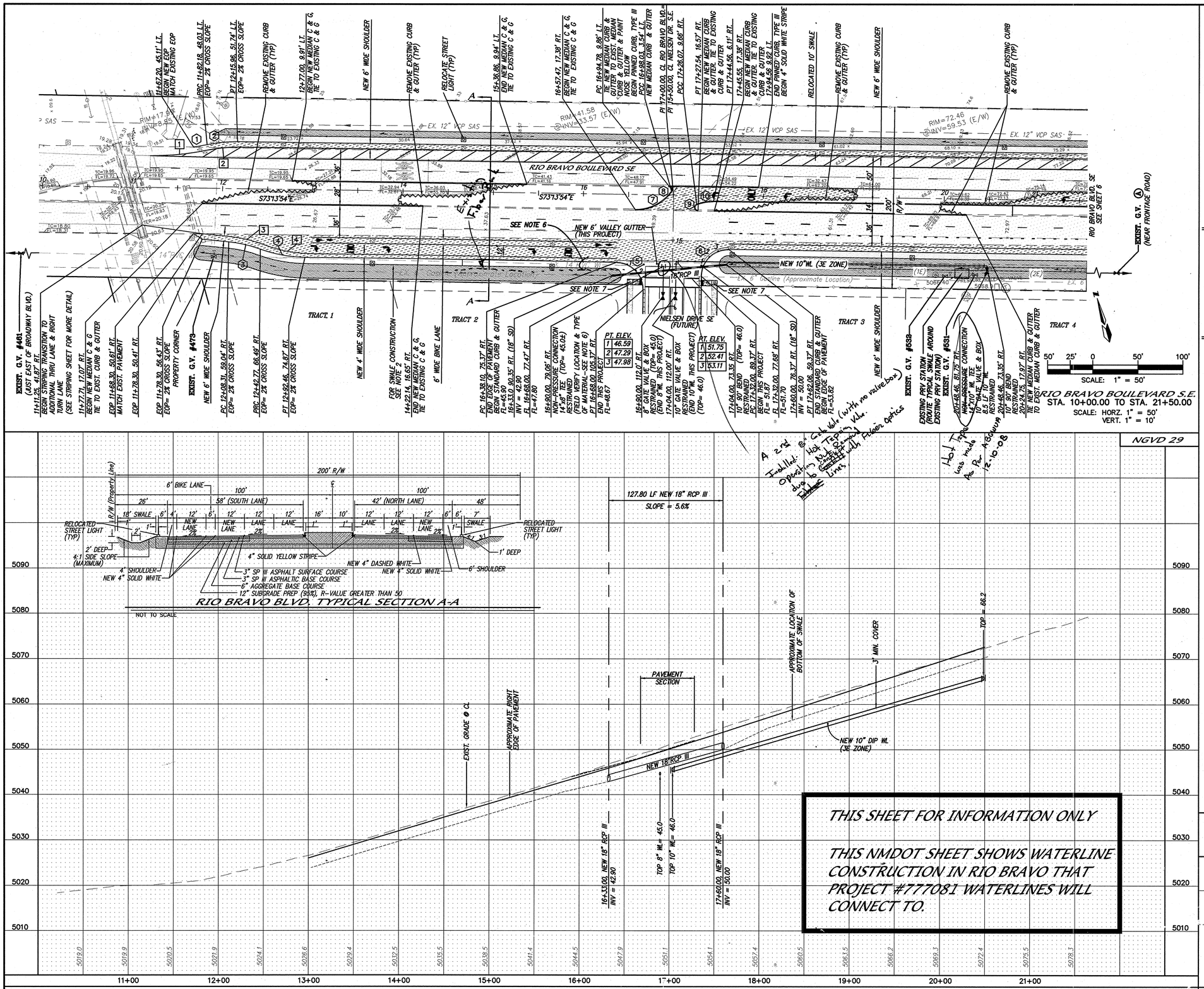
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
777081	P-14-Z	28	29

A02Jobs/A2138NIND/PLANS/REVISED PLANS/A2138-WDETAIL-3.dwg/08-27-07/ DER RFH

F:\W2K\DBS\A2138NIND\PLANS\Revised Plans\A2138-WDETAIL-3.dwg, 8/30/2007 4:24:55 PM, PLOTTED BY: RFH

RECORD DRAWINGS



THIS SHEET FOR INFORMATION ONLY

THIS NMDOT SHEET SHOWS WATERLINE CONSTRUCTION IN RIO BRAVO THAT PROJECT #777081 WATERLINES WILL CONNECT TO.

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
3. SEE SHEET 6 FOR RIO BRAVO STREET AND PAVEMENT SECTIONS.
4. SEE SHEET 7 FOR STRIPING & SIGNAGE PLAN.
5. SEE SHEETS 9, 10 & 11 FOR TRAFFIC CONTROL PLANS.
6. FIELD VERIFY WATERLINE MATERIAL BEFORE MAKING CONNECTION.
7. THE WHEEL CHAIR RAMP AND VALLEY GUTTER ARE PART OF THIS PROJECT. THE PAVEMENT WILL BE BUILT WITH NIELSEN INDUSTRIAL PARK ONSITE CONSTRUCTION PLANS.

CURVE DATA – DESCRIBES NEW STRIPING (SEE SHEET 7 STRIPING DETAIL)

1 L=64.85 R=300.00 Δ=12°23'05" Tan=32.55	2 L=32.74 R=150.00 Δ=12°30'26" Tan=16.44	3 L=39.82 R=150.00 Δ=15°12'41" Tan=20.03	4 L=53.08 R=150.00 Δ=20°16'24" Tan=26.82

CURVE DATA – DESCRIBES FACE OF NEW CURB/EOP

1 L=15.26 R=294.00 Δ=2°58'29" Tan=7.63	2 L=34.05 R=156.00 Δ=12°30'26" Tan=17.09	3 L=35.36 R=144.06 Δ=14°03'42" Tan=17.77
4 L=50.62 R=150.00 Δ=19°20'12" Tan=25.55	5 L=47.02 R=30.00 Δ=89°48'35" Tan=29.90	6 L=47.19 R=30.00 Δ=90°07'21" Tan=30.06
7 L=47.39 R=50.00 Δ=54°18'19" Tan=25.64	8 L=8.77 R=4.00 Δ=125°36'35" Tan=7.78	9 L=11.04 R=4.00 Δ=158°06'38" Tan=20.68
10 L=18.95 R=50.00 Δ=21°42'50" Tan=9.59		

STRIPING DETAIL TYPICAL
N.T.S.

NEW RELOCATED ROADSIDE SWALE
EXISTING PAVEMENT
NEW PAVEMENT
EXISTING CURB & GUTTER TO BE REMOVED
EXISTING STREET LIGHT
RELOCATE EXISTING STREET LIGHT

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
NEW MEXICO DANE HOELZER 11997 LICENSED PROFESSIONAL ENGINEER
8-21-07

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	DLH	05/05
DRAWN BY	KJS	05/05
CHECKED BY	DMG	05/05

NEW MEXICO DEPARTMENT OF TRANSPORTATION

TITLE: NIELSEN INDUSTRIAL PARK
RIO BRAVO BOULEVARD S.E. (WEST)
PAVING & WATERLINE IMPROVEMENTS

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

ZONE MAP NO. P-14 | SHEET 29 OF 29

A2138NIND/PLANS/REVISED-PLANS/A2138PP_RIOBRAVO.dwg (FOR INFO ONLY)/08-27-07 KJS SLV RDQ DER RFH

F:\A2138GS\A2138NIND\PLANS\Revised Plans\A2138PP_RIOBRAVO.dwg, 8/30/2007 4:10:00 PM, PLOTTED BY: RFH

RECORD DRAWINGS

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95–12 AND COUNTY ORDINANCE NO. 96–3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848–1504 FOR MORE INFORMATION.

2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL ADMINISTRATOR AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848–1504 FOR FURTHER INFORMATION.

3. A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT MANAGER OR THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR.

4. CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: PROJECT MANAGER

5. THE CONTRACTOR SHALL FILE A WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL ADMINISTRATOR DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.

6. SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.

7. TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.

8. TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

9. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.

10. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF THE COUNTY TRAFFIC CONTROL ADMINISTRATOR, PER SECTION 6A–4 OF THE MUTCD, LATEST EDITION.

11. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET–UP FOR EACH PHASE SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

13. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI–LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

14. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING PER MUTCD SECTION 6A–4.

15. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

16. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON–WORKING HOURS WITHOUT THE APPROVAL OF BERNALILLO COUNTY TRAFFIC ENGINEERING.

17. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

18. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

19. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

20. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF BERNALILLO COUNTY TRAFFIC ENGINEERING. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE LETTERING ON BLUE BACKGROUND. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

21. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT–OF–WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

22. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.

23. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET, SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

BROADWAY BLVD. / RIO BRAVO BLVD. SPECIAL TRAFFIC NOTES

BERNALILLO COUNTY TRAFFIC CONTROL GENERAL NOTES:

1. PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95–12 AND COUNTY ORDINANCE NO. 96–3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848–1504 FOR MORE INFORMATION.

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4. CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERN COUNTY PUBLIC WORKS DIVISION ATTN.: HOSS FOSTER.

5. THE CONTRACTOR SHALL FILE WEEKLY WRITTEN REPORTS TO THE TRAFFIC CONTROL MANAGER DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.

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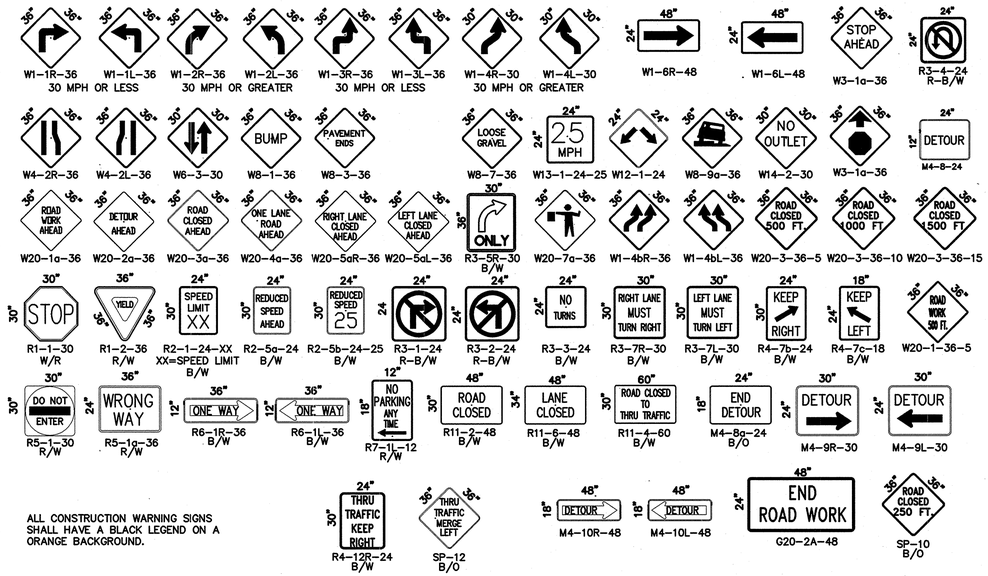
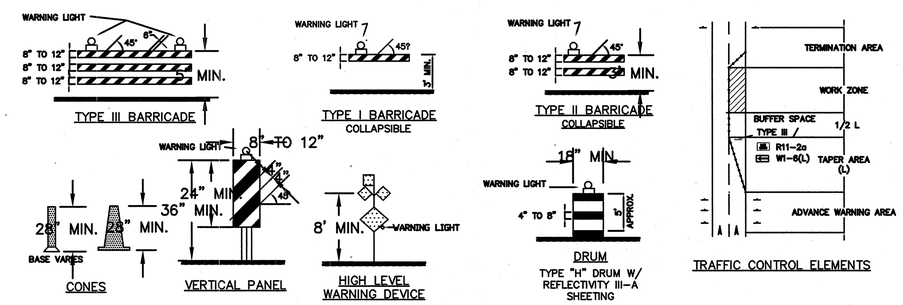
SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



LEGEND

- WORK AREA
- • BARRICADE – TYPE I, TYPE II, OR TYPE "H" DRUM W/ REFLECTIVITY III–A SHEETING
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

NO.	DESCRIPTION	DATE	BY

REVISIONS

COUNTY OF BERNALILLO

NIELSEN INDUSTRIAL PARK
SIGNING & CONSTRUCTION
TRAFFIC CONTROL STANDARDS

COUNTY STANDARDS

COUNTY PROJECT NO. 50051

SHEET 29.1 OF 29

F:\M02JOBS\A2138\INDPLANS\Revised Plans\A2138_BCTraffic Control Notes (1).dwg, 11/8/2007 11:13:41 AM, PLOTTED BY RDQ

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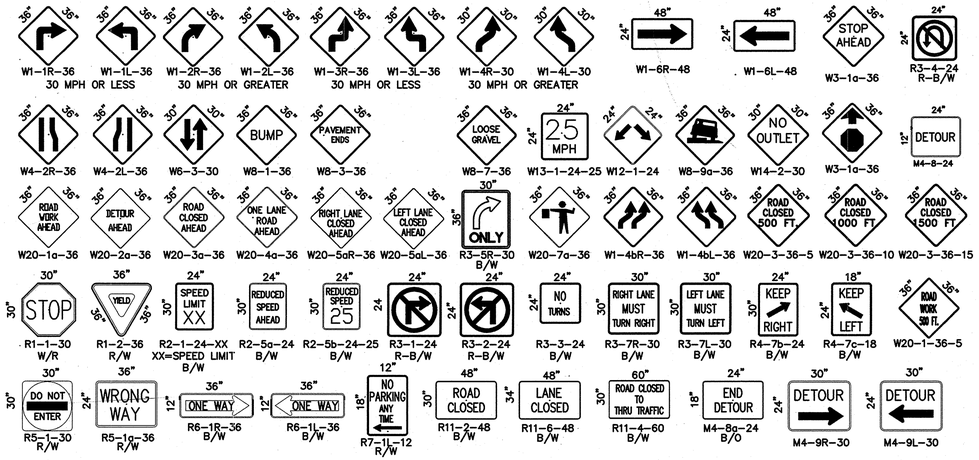
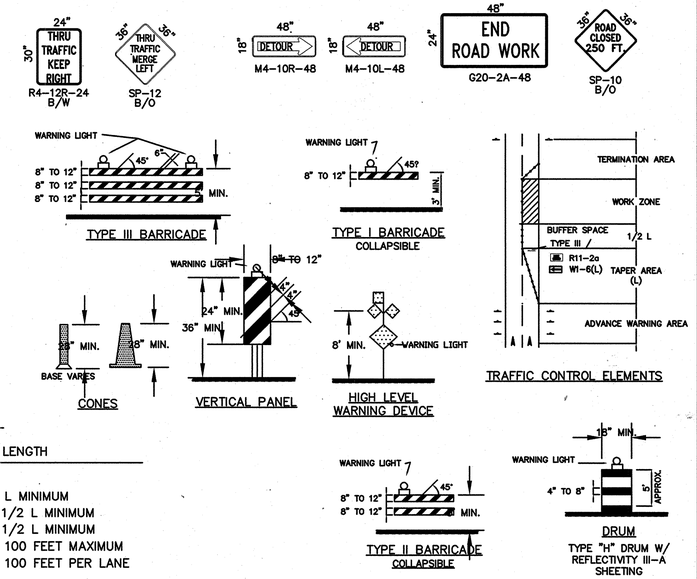
24. THE CONTRACTOR SHALL CONTACT BERNALILLO COUNTY TRAFFIC ENGINEER (848-1575) BEFORE REMOVING AND/OR INSTALLING ANY TRAFFIC SIGNS OR PERMANENT STRIPING AND MARKINGS. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, LEGENDS AND SYMBOLS ARE TO BE CONSTRUCTED OF INTERSECTION GRADE COLD PLASTIC AND LINE MARKINGS ARE TO BE CONSTRUCTED OF DURABLE PAINT IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION. ANY PAVEMENT MARKINGS AND SIGNS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT EXISTING LOCATIONS. SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR

ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

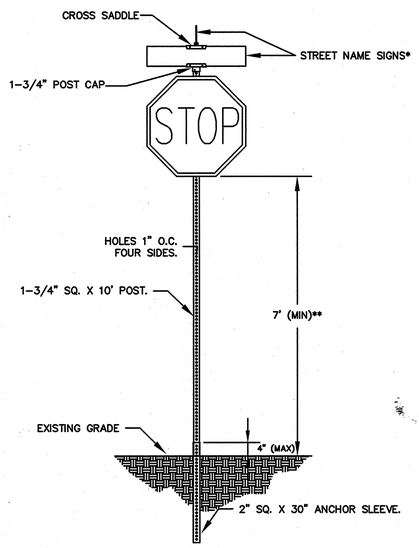
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH



SIGN POST DETAIL
SCALE: N.T.S

*ALL STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND WITH HI INTENSITY REFLECTIVE SHEETING. ALL LETTERS SHALL BE 4" FOR POSTED SPEEDS OF 25 MPH AND BELOW AND 6" FOR POSTED SPEEDS GREATER THAN 25 MPH.
**SEE MUTCD FOR MINIMUM MOUNTING HEIGHT IN RURAL AREAS

# OF POSTS	MAXIMUM SIGN SQUARE FOOTAGE
1	6
2	12
3	18

LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR TYPE "H" DRUM W/ REFLECTIVITY III-A SHEETING
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

NO.	DESCRIPTION	DATE	BY

REVISIONS

COUNTY OF BERNALILLO

NIELSEN INDUSTRIAL PARK

SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS

COUNTY STANDARDS

COUNTY PROJECT NO. 50051

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