

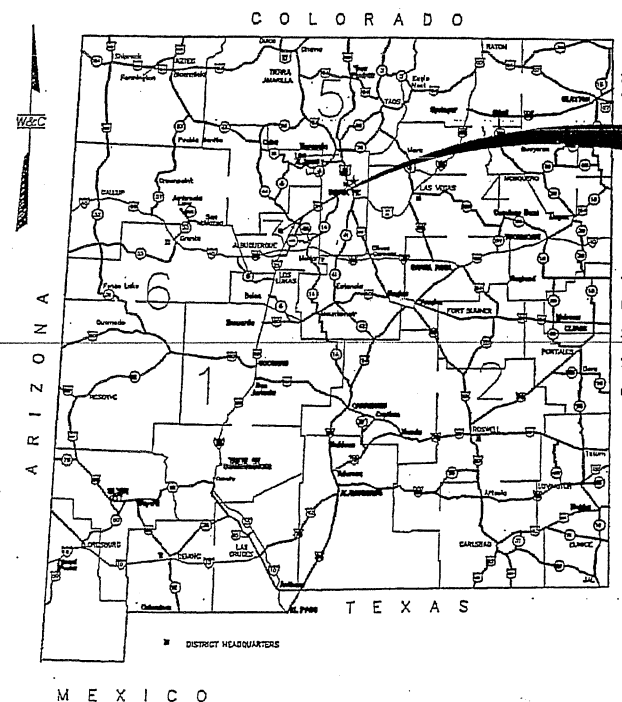
BROADMOOR DRIVE PROJECT # PW 0907
FR COUNTRY CLUB DR TO NICKLAUS DR
21st AVENUE PROJECT # PW 0908
FR GOLF COURSE RD TO GRANDE BLVD
ROADWAY IMPROVEMENTS



CITY OF RIO RANCHO
SANDOVAL COUNTY, NEW MEXICO

SHEET NO.	DESCRIPTION
1 OF 50	COVER SHEET
2 OF 50	VICINITY MAP
3 OF 50	21ST AVENUE SUMMARY OF QUANTITIES
4 OF 50	BROADMOOR DRIVE SUMMARY OF QUANTITIES
5 OF 50	GENERAL NOTES
6 OF 50	21ST AVE TYPICAL ROADWAY SECTION
7 OF 50	21ST AVE SURVEY CONTROL PLAN
8 OF 50	21ST AVE STA 10+00 TO STA 19+00 ROADWAY PLAN
9 OF 50	21ST AVE STA 19+00 TO STA 28+00 ROADWAY PLAN
10 OF 50	21ST AVE STA 28+00 TO STA 37+00 ROADWAY PLAN
11 OF 50	21ST AVE STA 37+00 TO STA 45+00 ROADWAY PLAN
12 OF 50	21ST AVE STA 45+00 TO STA EOP ROADWAY PLAN
13 OF 50	21ST AVE STA 10+00 TO STA 19+00 DEMOLITION PLAN
14 OF 50	21ST AVE STA 19+00 TO STA 28+00 DEMOLITION PLAN
15 OF 50	21ST AVE STA 28+00 TO STA 37+00 DEMOLITION PLAN
16 OF 50	21ST AVE STA 37+00 TO STA 45+00 DEMOLITION PLAN
17 OF 50	21ST AVE STA 45+00 TO STA EOP DEMOLITION PLAN
18 OF 50	TRAFFIC GENERAL NOTES
19 OF 50	TRAFFIC GENERAL NOTES CONTINUED
20 OF 50	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
21 OF 50	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES
22 OF 50	21ST AVE CONSTRUCTION PHASING, TYPICAL SECTION
23 OF 50	21ST AVE STA 10+00 TO STA 23+50 CONSTRUCTION PHASING
24 OF 50	21ST AVE STA 23+50 TO STA 37+00 CONSTRUCTION PHASING
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27 OF 50	BROADMOOR DR TYPICAL ROADWAY SECTION
28 OF 50	BROADMOOR DR MEDIAN DETAILS
29 OF 50	BROADMOOR DR MEDIAN DETAILS
30 OF 50	BROADMOOR DR SURVEY CONTROL PLAN
31 OF 50	BROADMOOR DR STA 10+00 TO STA 19+00 ROADWAY PLAN
32 OF 50	BROADMOOR DR STA 19+00 TO STA 28+50 ROADWAY PLAN
33 OF 50	BROADMOOR DR STA 28+50 TO EOP ROADWAY PLAN
34 OF 50	BROADMOOR DR STA 10+00 TO STA 19+00 DEMOLITION PLAN
35 OF 50	BROADMOOR DR STA 19+00 TO STA 28+50 DEMOLITION PLAN
36 OF 50	BROADMOOR DR STA 28+50 TO STA EOP DEMOLITION PLAN
37 OF 50	BROADMOOR DR CONSTRUCTION PHASING
38 OF 50	BROADMOOR DR STA 10+00 TO STA 19+00 CONSTRUCTION PHASE 1
39 OF 50	BROADMOOR DR STA 19+00 TO STA 28+00 CONSTRUCTION PHASE 1
40 OF 50	BROADMOOR DR STA 28+00 TO STA EOP CONSTRUCTION PHASE 1
41 OF 50	BROADMOOR DR STA 10+00 TO STA 19+00 CONSTRUCTION PHASE 2
42 OF 50	BROADMOOR DR STA 19+00 TO STA 28+00 CONSTRUCTION PHASE 2
43 OF 50	BROADMOOR DR STA 28+00 TO STA EOP CONSTRUCTION PHASE 2
44 OF 50	BROADMOOR DR UTILITY PLAN

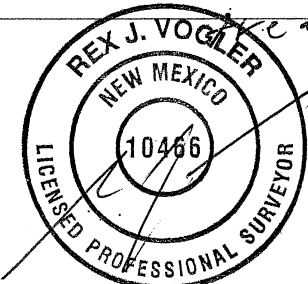
CONSTRUCTION PLANS



PROJECT NO.:
PW 0907
PW 0908

BROADMOOR DR
FROM COUNTRY CLUB DR
TO NICKLAUS DR
LENGTH: 0.47 MILES

21st AVE
FROM GOLF COURSE RD
TO GRANDE BLVD / 21st AVE
LENGTH: 0.77 MILES

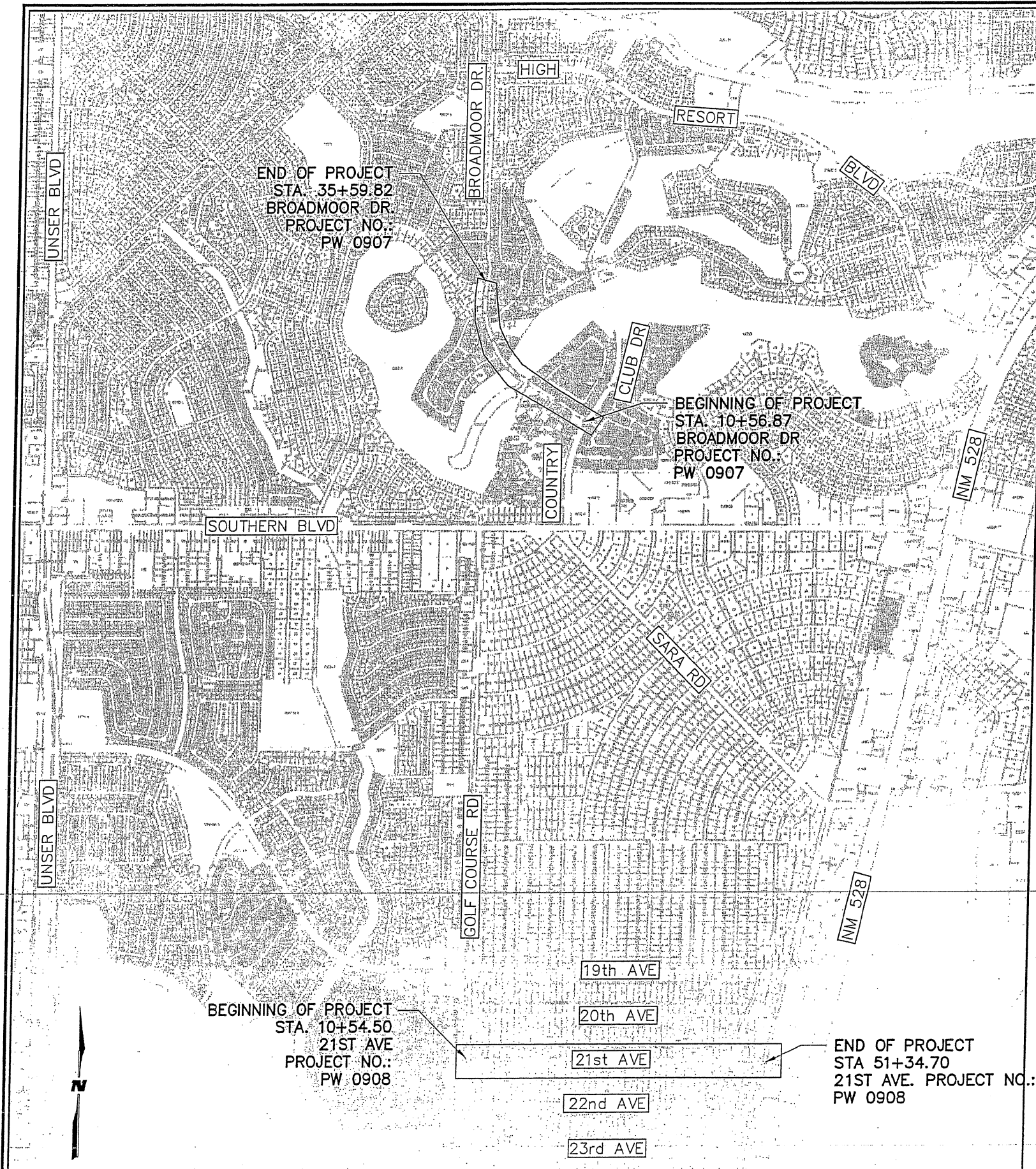


APPROVALS

CITY OF RIO RANCHO
DEPARTMENT OF PUBLIC WORKS

[Signature]
DATE: 3-17-10

City of Rio Rancho	
City of Vision	
REVISIONS (OR CHANGE NOTICES)	
NO.	DATE
7	
6	
5	
4	
3	
2	
1	
DESCRIPTION	
WILSON & COMPANY 2600 AMERICAN RD. SE, STE 100 RIO RANCHO, NEW MEXICO 87124 PH (505) 898-8501 FAX (505) 898-8501 www.wilsonco.com	
BROADMOOR DRIVE / 21st AVENUE ROADWAY IMPROVEMENTS	
COVER SHEET	
PROJECT NO. 07800014-34	
DESIGNED BY: ESC	
DRAWN BY: DAP	
CHECKED BY: SUS	
DATE: MAY 2010	
DPW CHK:	
SHEET	
1 of 50	



VICINITY MAP
SCALE: 1" = 800'

TYPE OF CONSTRUCTION
RECONSTRUCTION ROADWAY SECTION
TRAFFIC CONTROL, PERMANENT
SIGNING AND STRIPING,
MISCELLANEOUS CONSTRUCTION

BROADMOOR DR
LENGTH OF PROJECT = 0.47 MILES

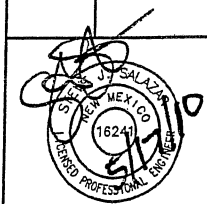
21st AVE.
LENGTH OF PROJECT = 0.77 MILES

THE PLANS WERE DESIGNED
AND/OR ASSEMBLED BY
WILSON & COMPANY, INC.
2600 THE AMERICAN RD.
RIO RANCHO, NM 87124
505-898-8021
STEVE SALAZAR
SJSALAZAR@WILSONCO.COM

**WILSON
& COMPANY**
2600 AMERICAN RD. SE. STE 100
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WWW.WILSONCO.COM

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

VICINITY MAP



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

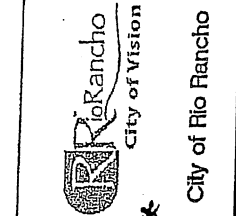
REVISIONS (OR CHANGE NOTICES)			
NO.	DESCRIPTION	DATE	BY
7			
6			
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3			
2			
1			

21 st AVENUE

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	ROADWAY		CONSTRUCTION ENGINEERING		PERMANENT SIGNING & STRIPING		CONSTRUCTION SIGNING		PROJECT TOTAL	
			ESTIMATED	FINAL	ESTIMATED	FINAL	ESTIMATED	FINAL	ESTIMATED	FINAL	ESTIMATED	FINAL
	ROADWAY											
203000	UNCLASSIFIED EXCAVATION	CY	1910								1910	
207000	SUBGRADE PREPARATION	SY	11280								11280	
304160	BASE COURSE 6"	SY	11280								11280	
407000	ASPHALT MATERIAL FOR TACK COAT	TON	4								4	
408100	PRME COAT MATERIAL	TON	20								20	
414130	COLD MILLING (ASPHALT) 3"	SY	11280								11280	
416000	MINOR PAVING	SY	440								440	
423250	HMA SP-IV COMPLETE (3")	SY	11280								11280	
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1								1	
608004	CONCRETE SIDEWALK - 4"	SY	460								460	
608106	DRIVE PAD 6"	SY	61								61	
608404	CONCRETE MEDIAN PAVEMENT - 4" COLORED & PATTERNED	SY	6								6	
6085XX	CRUSHER FINES 4" SANTA FE BROWN INCLUDES FABRIC	SY	175								175	
609324	CONCRETE MOUNTABLE CURB AND GUTTER TYPE A 6" X 24"	LF	38								38	
609424	CONCRETE VERTICAL CURB AND GUTTER TYPE B 6" X 24"	LF	146								146	
609699	CONCRETE VALLEY GUTTER 8"x72" (INCLUDES CONC FILLETS)	LF	280								280	
621000	MOBILIZATION	LS	1								1	
662400	MANHOLE ADJUSTMENT	EA	1								1	
	CONSTRUCTION ENGINEERING											
603280	SWPPP MANAGEMENT; NCLED MAINTENANCE (21ST & BROADMOOR)	LS			1						1	
618000	TRAFFIC CONTROL MANAGEMENT	LS			1						1	
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	LS			1						1	
901000	CONTRACTOR PROCESS QUALITY CONTROL	ALLOW			1						1	
	PERMANENT SIGNING & STRIPING											
701000	PANEL SIGNS	SF					150				150	
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	LF					300				300	
704700	HOT THERMOPLASTIC PAVEMENT MARKINGS	LF					3150				3150	
	CONSTRUCTION SIGNING											
702800	TRAFFIC CONTROL PLAN	LS							1		1	
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION*	LS							1		1	
702XXX	TOWING OF ON STREET VEHICLES	EA							6		6	

*INCLUDES PROJECT SIGNS
**MILLING OF ASPHALT ONLY

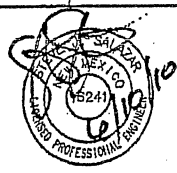


7	6	5	4	3	2	1	NO.
							REVISED QUANTITIES
							DESCRIPTION
							DATE
							BY

WILSON & COMPANY
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www.wilsonco.com

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS


SUMMARY OF QUANTITIES



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

SUMMARY OF QUANTITIES

'INCLUDES PROJECT SIGNS
'MILLING OF ASPHALT ONLY



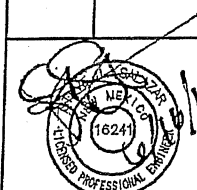
City of Rio Rancho

NO.	DESCRIPTION	DATE	BY
1	REMOVE OR DELETE QUANTITIES	6/10/70	MLL
2			
3			
4			
5			
6			
7			

**WILSON
& COMPANY**
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

SUMMARY OF QUANTITIES



PROJECT NO.	07800014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	

4 of 50

GENERAL NOTES

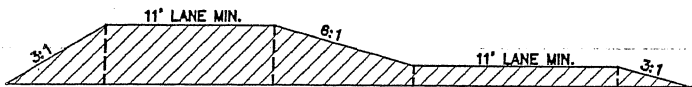
1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, 3) THE LATEST EDITION OF THE CITY OF RIO RANCHO STANDARD DETAILS, AND 4) THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND DETAILS, AS PREPARED BY THE NEW MEXICO CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION, LATEST EDITION, IN CASE OF CONFLICTING SPECIFICATIONS THE CITY PM WILL DETERMINE WHICH ONE GOVERNS.
2. THE CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR OTHER PERSONS PERFORMING ANY WORK, AS SHOWN IN THE PROJECT CONTRACT DOCUMENTS.
4. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IS IN THE PUBLIC RIGHT-OF-WAY. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS VIA CITY'S WEBSITE AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED.
5. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER, THE ENGINEER, THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC SAFETY (505-891-5900) AND THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS (505-891-5016).
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
7. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION.
8. EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.
9. THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFF-SITE STAGING AREA SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA.
10. UNLESS OTHERWISE NOTED, ALL ROADWAY STATIONING IS ALONG THE CENTERLINE OF THE ROADWAY RIGHT-OF-WAY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
12. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER, AND THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS (505-891-5016) IMMEDIATELY.
13. IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF RIO RANCHO PROJECT MANAGER (505-891-5016) TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
14. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS. AN UPDATED SCHEDULE WILL BE SUBMITTED WITH EVERY PAY APPLICATION.
15. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY OF RIO RANCHO AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
16. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
17. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL AT 1-800-321-2537, PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.

GENERAL NOTES CONT.

18. CONTRACTOR WILL NOTIFY THE CITY OF RIO RANCHO'S PROJECT MANAGER AT 505-891-5016 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
19. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
20. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
21. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
22. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS, RECORDED PLATS, AND CITY OF RIO RANCHO STANDARD DETAILS. EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
23. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE CITY OF RIO RANCHO PRIOR TO FINAL PAYMENT.
24. NO WORK SHALL BE PERFORMED IN A FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE CITY OF RIO RANCHO FLOODPLAIN MANAGER.
25. ANY WORK PERFORMED IN A DRAINAGWAY, CHANNEL, ARROYO, OR FLOODPLAIN MUST BE PROTECTED BY MEANS OF TEMPORARY PONDING OR DIVERSION OF STORM FLOWS UNTIL SUCH WORK HAS BEEN ACCEPTED BY THE CITY.
26. PUBLIC AWARENESS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND NOTIFICATION OF CONSTRUCTION ACTIVITIES WITH THE INSPECTOR AND CITY'S PR FIRM, HDR THROUGHOUT THE LIFE OF PROJECT.
27. CONTRACTOR SHALL PROVIDE 24HR ACCESS TO ALL RESIDENTS.

ROADWAY GENERAL NOTES

1. NO PAVING CONSTRUCTION ACTIVITIES SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE COMPLETED, TESTED, AND APPROVED. ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TELEVISION, AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE.
2. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, PAVEMENT MARKINGS, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION.
3. ALL STREET STRIPING ALTERED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO MATCH THE ORIGINAL CONDITIONS (I.E. TYPE, SPACING) AT THE LOCATION PRIOR TO CONSTRUCTION, OR AS SHOWN IN THIS PLAN SET.
4. STREET GRADES SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING GRADES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SMOOTH TRANSITIONS SHALL BE MADE BETWEEN EXISTING PAVEMENT WHICH REMAINS IN PLACE AND PAVEMENT WHICH IS REPLACED. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. REFER TO STANDARD DRAWING PS-02.
5. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS.
6. THE LOCATION OF ALL VALVES AND MANHOLES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION AND MADE VISIBLE UPON COMPLETION OF ALL PAVING ACTIVITIES.
7. IN THE AREAS OF PAVEMENT OPERATIONS OR OTHER ACTIVITIES WITHIN THE TRAVELED WAY AND ADJACENT TO THE EXISTING TRAVELED LANE, THE CONTRACTOR SHALL ASSURE THAT THE PAVEMENT DROP-OFFS ARE LEFT EXPOSED DURING NON-WORKING HOURS. THE CONTRACTOR SHALL ASSURE THAT NO PAVEMENT DROP-OFFS ARE LEFT EXPOSED DURING NON-WORKING HOURS. THE CONTRACTOR SHALL INITIATE CORRECTIVE MEANS AS PER "THE NEW MEXICO DEPARTMENT OF TRANSPORTATION PAVEMENT DROP-OFF GUIDELINE" TO ACHIEVE A MINIMUM 6:1 SLOPE BETWEEN TRAVELED LANES AND A MINIMUM 3:1 SLOPE ADJACENT TO THE EXISTING TRAVELED LANE WITH TWO 11 FOOT DRIVING LANES AS SHOWN IN THE DETAIL BELOW.
8. THE CONTRACTOR SHALL COORDINATE THEIR EFFORTS WITH THE CONTRACTOR THAT MAY BE DOING THE NIKLAUS CONSTRUCTION PROJECT. THE CONTRACTORS SHALL VERIFY THAT EACH OTHERS TRAFFIC CONTROL WILL NOT INTERFERE WITH THE OTHERS. THE CITY OF RIO RANCHO'S PROJECT MANAGER SHALL BE PRESENT DURING THESE DISCUSSIONS.
9. PRIOR TO THE PLACEMENT OF PAVEMENT MARKINGS THE CONTRACTOR SHALL COORDINATE W/THE CORR TRAFFIC SECTION TO ASSIST IN LAYING OUT PAVEMENT MARKINGS.



LIST OF INCIDENTALS:

- UTILITY REPAIR COSTS
- EARTHWORK HAUL
- DESIGN, INSTALLATION, AND REMOVAL OF SHIELDING FOR CONSTRUCTION EQUIPMENT OR MATERIAL WITHIN CONSTRUCTION CLEAR ZONE
- HAULING OF SALVAGEABLE MATERIALS
- STOCKPILING OF REMOVED ASPHALT PAVEMENT MATERIAL AT A CITY FACILITY, WITHIN 6 MILES
- HAULING OF REMOVALS AND DISPOSED MATERIAL
- TRAFFIC SIGNALIZATION AND TEMPORARY TRAFFIC CONTROL COORDINATION PER SECTION 6
- WARPIING OF SLOPES
- CLEANING OF EXISTING STRUCTURES
- CONSTRUCTION WATER
- UTILITY VERIFICATION, LINE SPOTTING, POT HOLING AND EXPLORATION
- VIBRATION MONITORING (CONTRACTOR DISCRETION)
- NEAT LINE AT EDGE OF PAVEMENT
- PERMIT FEES, IF APPLICABLE
- PAVEMENT DROPOFF
- REMOVAL OF EXISTING STRUCTURES
- SEEDING OF DISTURBED AREAS NOT COVERED BY LANDSCAPING
- OTHER: AS OUTLINED ON THE GENERAL NOTES SHEETS

NOTE: THIS LIST IS PROVIDED FOR CONTRACTORS INFORMATION ONLY. ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS OR STANDARD SPECIFICATIONS.

SOILS

1. UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY.
- | MATERIALS | PERCENT (%) COMPACTION |
|--|------------------------|
| STRUCTURAL FILL IN THE BUILDING AREA | 95 |
| SUB BASE FOR SLAB SUPPORT | 95 |
| MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD | 95 |
| MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS | 90 |
| ROAD SUB GRADE | 95 |
| SIDEWALK SUB GRADE | 95 |
| CURB AND GUTTER SUBGRADE | 95 |
2. SHRINKAGE FACTOR: THE EARTHWORK QUANTITIES ARE BASED ON A SHRINKAGE FACTOR OF 30% IN ROADWAY EMBANKMENT.

SALVAGEABLE ITEMS:

ROADWAY SIGNING, ROADWAY LIGHTING, OTHER ITEMS TO BE DETERMINED BY PROJECT MANAGER

EXISTING UTILITIES

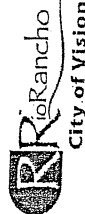
ALL EXISTING UTILITIES SHOWN REFLECT THE BEST INFORMATION AVAILABLE AND ARE APPROXIMATE ONLY. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER, AND THE CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS (505-891-5016) IMMEDIATELY. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR IS HEREBY ADVISED THAT UTILITY RELOCATION WORK BY THE UTILITY OWNERS MAY HAVE TO BE PERFORMED CONCURRENTLY WITH CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH CONSTRUCTION OPERATIONS AND SHALL BE REQUIRED TO COORDINATE THE SCHEDULING OF WORK WITH THE RESPECTIVE UTILITY OWNERS. ANY CLAIMS FOR DELAY SHALL BE CONTROLLED BY THE TERMS AND CONDITIONS OF SUBSECTIONS 105.6 - "COOPERATION WITH UTILITIES" AND 107.30 - "CONTRACTOR'S RESPONSIBILITY." OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.

UTILITY CONTACTS		
COMPANY	PHONE	CONTACT
CITY OF RIO RANCHO UTILITIES DEPARTMENT	505.891.5020	STEVE GALLEGOS
SIGNALS AND LIGHTING	505.896.8773	LEONARD RIVERA
PNM - ELECTRIC	505.241.3697	MICHAEL MOYER
NEW MEXICO GAS CO.	505.697.3156	JOE DUNLOP
QWEST	505.245.6694	JASON JUBERT
CABLE ONE	505.892.5114	CHARLIE GUINN
NM ONE CALL	505.260.1990	

LEGEND

EXISTING	NEW	
		DOUBLE POST SIGN
		SIGN
		SIGNAL LIGHT JUNCTION BOX
		LIGHT POLE
		WATER VALVE
		FIRE HYDRANT
		INLET
		TELEPHONE PEDESTAL
		TRANSFORMER
		ELECTRIC BOX
		ELECTRIC METER
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
		UTILITY, TELEPHONE MANHOLE
		TELEPHONE PEDESTAL



City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)

WILSON & COMPANY

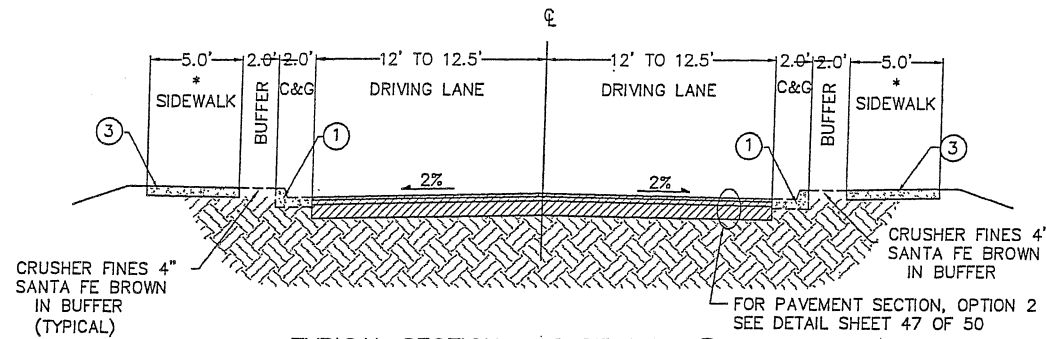
2600 AMERICAN RD. SE, STE 100
RIO RANCHO, NEW MEXICO 87124
PH (505) 898-8021
FAX (505) 898-8501
www.wilsonco.com

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

GENERAL NOTES



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



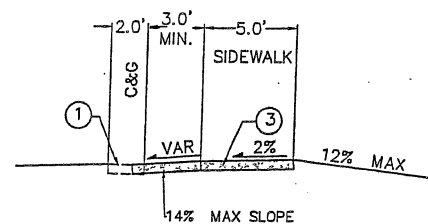
TYPICAL SECTION - 21ST AVE. (A)

SCALE : 1" = 5'

STA 10+54.50 TO STA 51+34.70

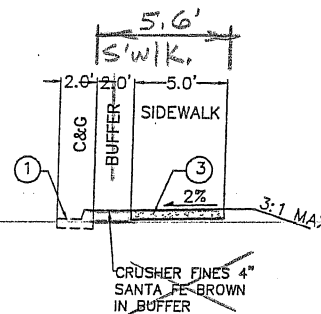
* NOTE: BUILD CONCRETE SIDEWALK 4" LT
STA 50+75.97 TO STA 51+23.25 LT

* NOTE: BUILD CONCRETE SIDEWALK 4" RT
STA 45+64.70 TO STA 46+86.52 RT
STA 47+06.37 TO STA 47+82.76 RT
STA 47+97.17 TO STA 49+09.44 RT
STA 49+23.91 TO STA 51+16.72 RT
STA 51+16.72 TO STA 51+33.65



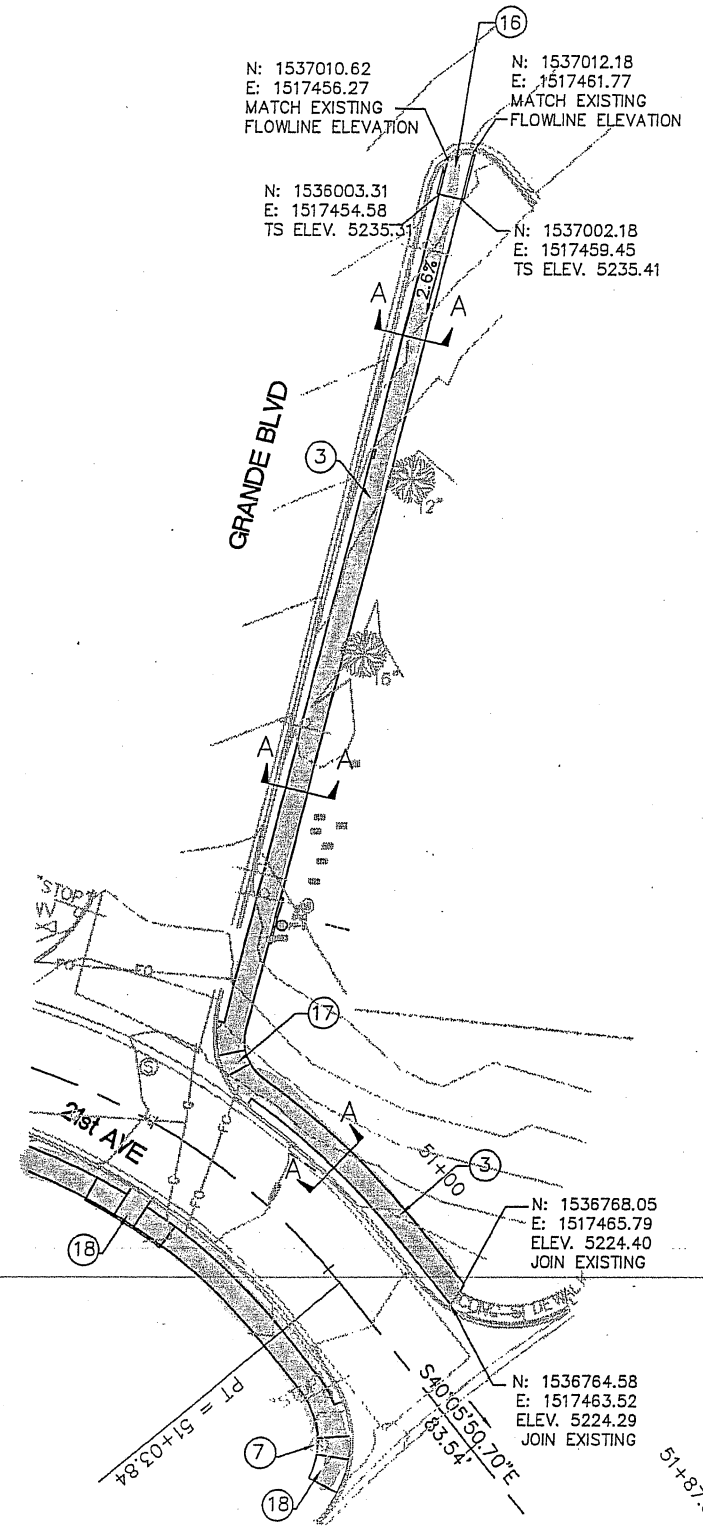
DRIVEWAY DETAIL

SCALE : 1" = 5'



SIDEWALK DETAIL - SECTION A-A

SCALE : 1" = 5'



SIDEWALK DETAIL - 21ST AVE & GRANDE BLVD

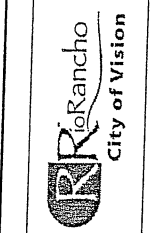
SCALE : 1" = 20'

KEYED NOTES

- EXISTING CURB AND GUTTER TO REMAIN IN PLACE.
- NOT USED
- BUILD CONCRETE SIDEWALK 4" PER CORR STD DRAWING DW-01
- NOT USED
- BUILD 6"x24" MOUNTABLE CURB AND GUTTER
- ADJUST MANHOLE RIM PER NM APWA STD DWG 2460-2461
- BUILD TYPE "C" CURB RAMP, 15:1 MAX SLOPE
- BUILD TYPE "D" CURB RAMP, 15:1 MAX SLOPE
- BUILD TYPE "B" CURB RAMP, 15:1 MAX SLOPE

GENERAL NOTES

- ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
- CONTRACTOR SHALL REMOVE LANDSCAPING NECESSARY TO BUILD SIDEWALK AND RAMP. CARE SHOULD BE TAKEN TO MINIMIZE IMPACT TO ADJUST LANDSCAPING, WALLS, ETC. ONCE SIDEWALK IS COMPLETE, THE CONTRACTOR SHALL BRING EXISTING LANDSCAPING TO BACK OF SIDEWALLS. THIS WORK SHALL BE INCIDENTAL TO THE SIDEWALK.



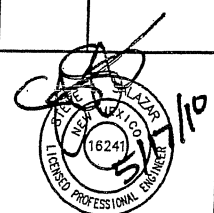
City of Rio Rancho

NO.	DESCRIPTION	DATE	BY
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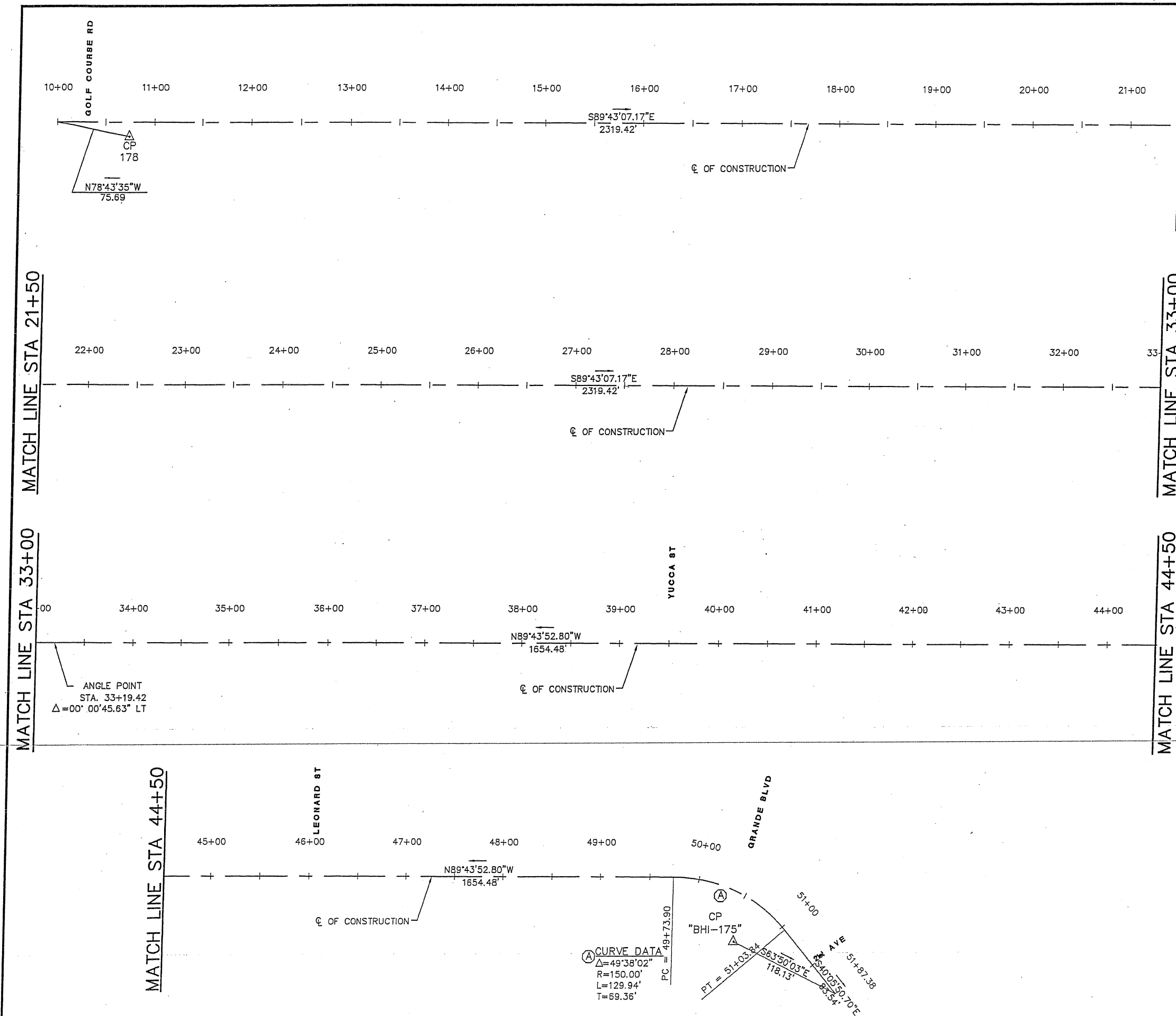
REVISIONS (OR CHANGE NOTICES)

WILSON & COMPANY
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
21ST AVE
TYPICAL
ROADWAY SECTION



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



MATCH LINE STA 21+50

MATCH LINE STA 33+00

MATCH LINE STA 44+50

GENERAL NOTES:

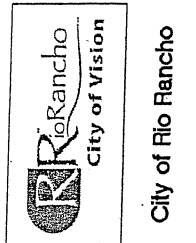
1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
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3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

SURVEY CONTROL POINTS:

CP-178
N: 1536827.514
E: 1513425.854
ELEV: 5245.485
DESCRIPTION: CP-178, PK W/SHINER CP 178,
CP-BHI-175
N: 1536757.930
E: 1517387.305
ELEV: 5225.291
DESCRIPTION: CP-175, PK W/SHINER
STAMPED BH175,

SCALE: 1"=50'

11"x17" SCALE:
HORIZ: 1" = 100'



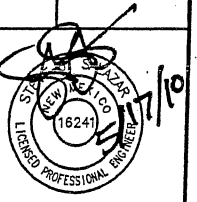
City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)	
NO.	DESCRIPTION
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

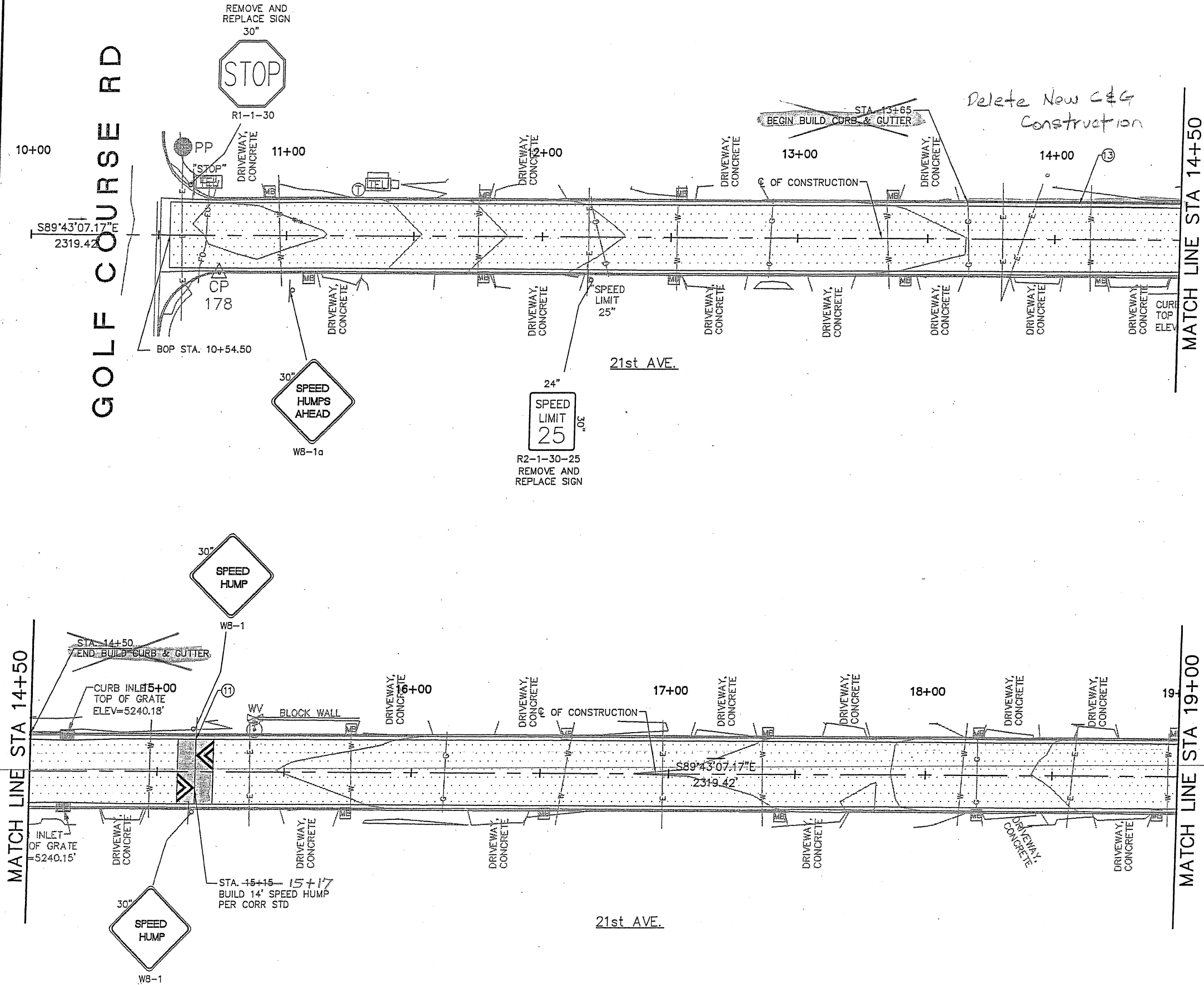
21ST AVE
SURVEY CONTROL PLAN



PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	

7 of 50

GOLF COURSE RD



KEY NOTES:

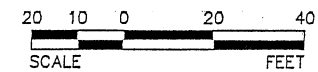
- 11 BUILD SPEED HUMP PER CORR STD DWG
- 13 BUILD CONC. VERTICAL CURB & GUTTER 6" X 24" PER CORR STD DWG NO. CG01

GENERAL NOTES:

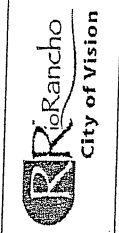
- ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
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- ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:

PROPOSED ROADWAY ASPHALT



11"x17" SCALE:
HORIZ: 1" = 40'



City of Rio Rancho

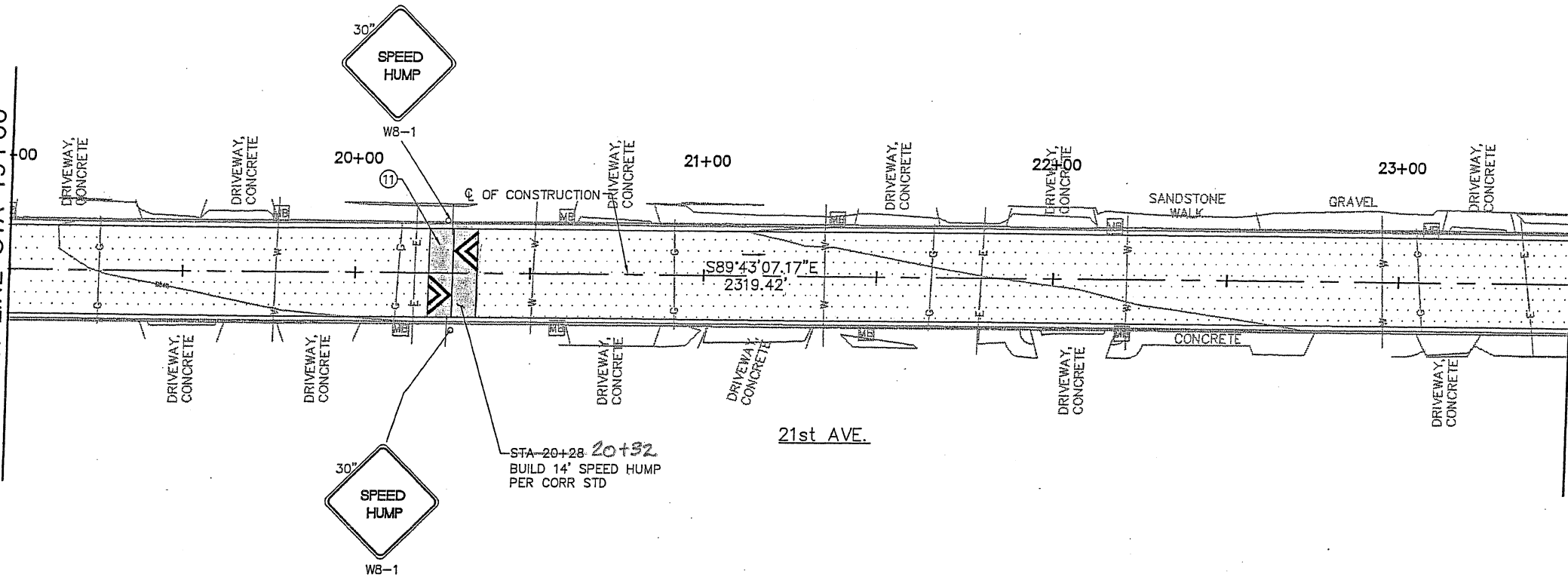
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www.wilsonco.com

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
21st AVE
STA 10+00 TO STA 19+00
ROADWAY PLAN



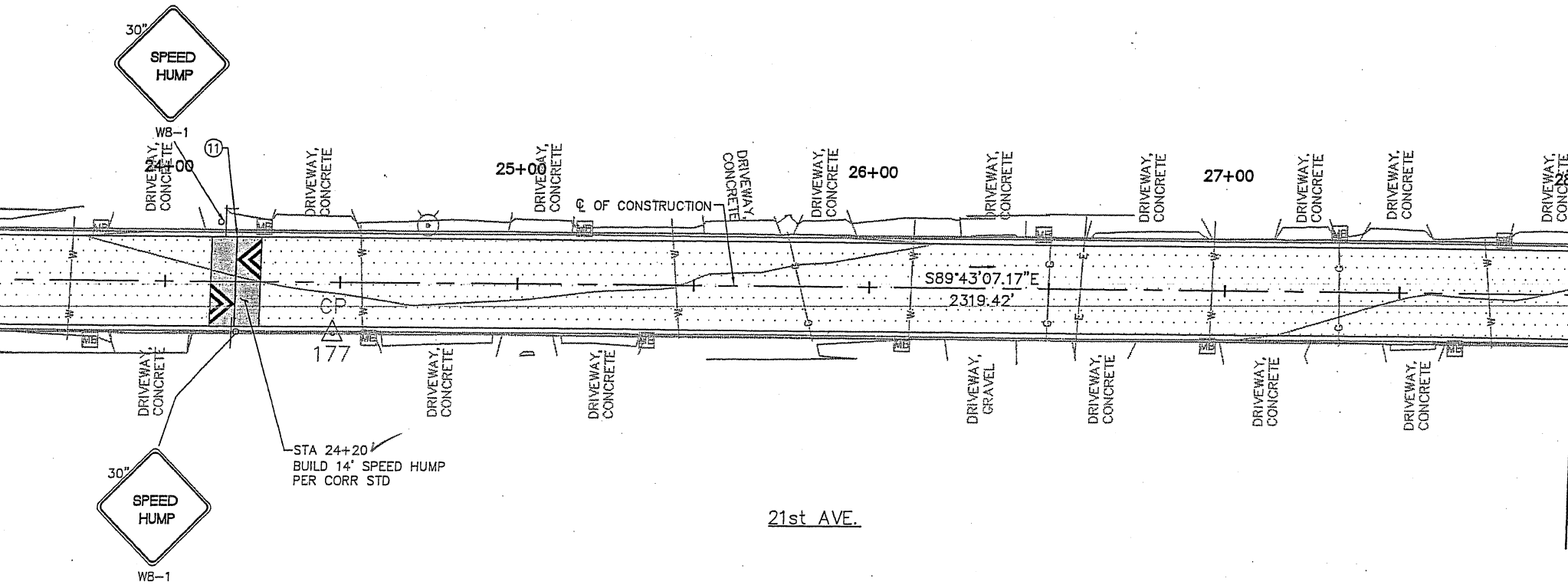
PROJECT NO: 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

MATCH LINE STA 19+00



MATCH LINE STA 23+50

MATCH LINE STA 23+50



MATCH LINE STA 28+00

KEY NOTES:

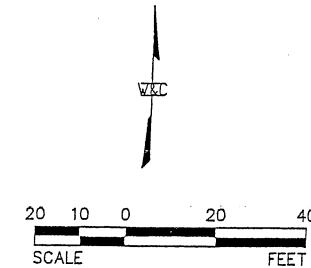
- (11) BUILD SPEED HUMP PER CORR STD DWG

GENERAL NOTES:

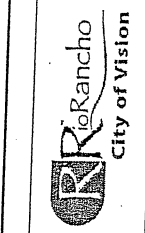
1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL MILLED ASPHALT SURFACING REMOVAL SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:

PROPOSED ROADWAY ASPHALT



11"x17" SCALE:
HORIZ: 1" = 40'



City of Rio Rancho

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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
21st AVE
19+00 TO STA 28+00
ROADWAY PLAN



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

9 of 50

MATCH LINE STA 28+00

MATCH LINE STA 32+50

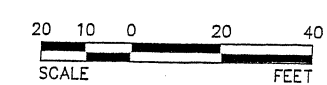
MATCH LINE STA 32+50

MATCH LINE STA 37+00

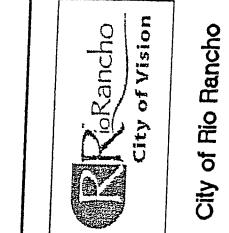
KEY NOTES:
11 BUILD SPEED HUMP PER CORR STD DWG

GENERAL NOTES:
1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL MILLED ASPHALT SURFACING REMOVAL SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.
4. PROVIDE CROSS SLOPE ON ROADWAY. TO PROVIDE ADEQUATE DRAINAGE.

LEGEND:
PROPOSED ROADWAY ASPHALT



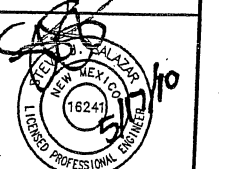
11"x17" SCALE:
HORIZ: 1" = 40'



REVISIONS (OR CHANGE NOTICES)	
NO.	DESCRIPTION
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
21ST AVE
STA 28+00 TO STA 37+00
ROADWAY PLAN



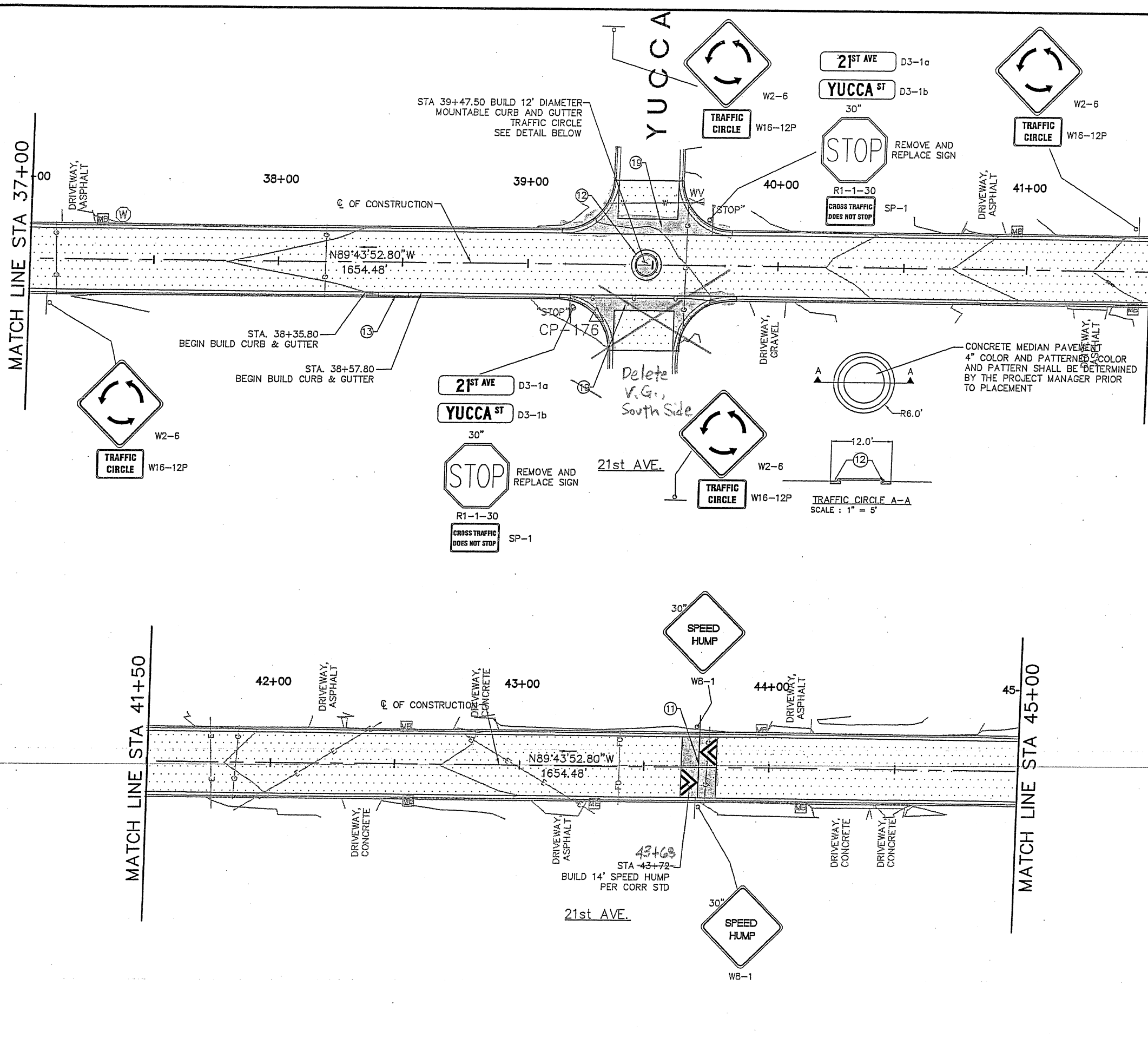
PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET
10 of 50

MATCH LINE STA 37+00

MATCH LINE STA 41+50

MATCH LINE STA 45+00

MATCH LINE STA 41+50



KEY NOTES:

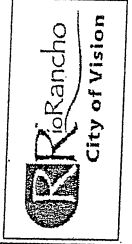
- 11 BUILD SPEED HUMP PER CORR STD DWG
- 12 BUILD CONC. MOUNTABLE CURB & GUTTER 6" X 24"
- 13 BUILD CONC. VERTICAL CURB & GUTTER 6" X 24" PER CORR STD DWG NO. CG01
- 19 BUILD CONCRETE VALLEY GUTTER PER CORR STD DTL VG-01, BUILD NEW ASPHALT TO END OF RETURNS

GENERAL NOTES:

- 1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
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- 3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.
- 4. COORDINATE WITH CITY OF RIO RANCHO TRAFFIC SECTION FOR SIGN PLACEMENT LOCATIONS

LEGEND:

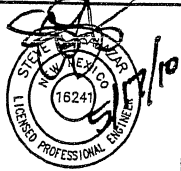
PROPOSED ROADWAY ASPHALT



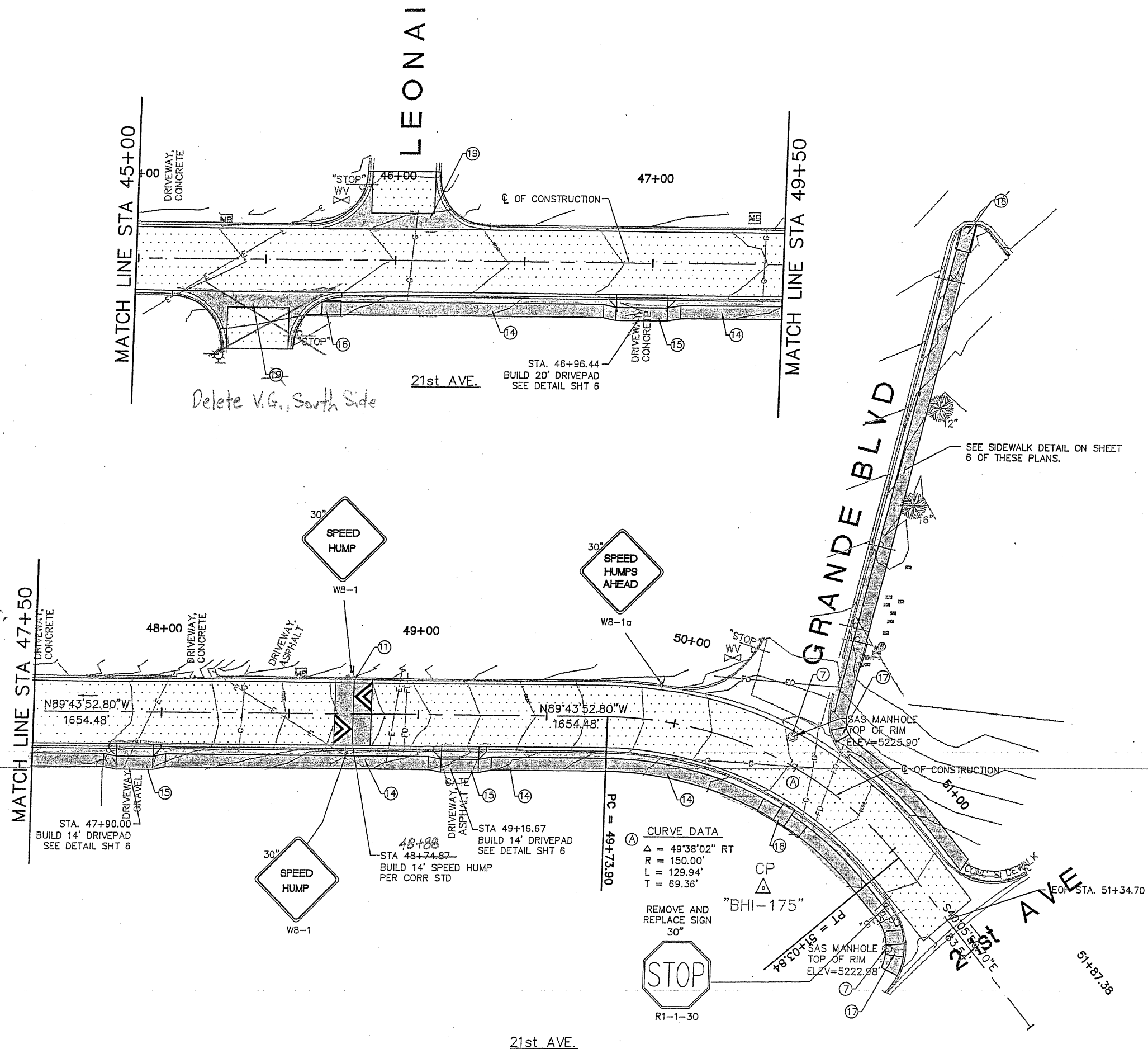
City of Rio Rancho

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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
21st AVE
37+00 TO STA 45+00
ROADWAY PLAN



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



KEY NOTES:

- ⑦ ADJUST MANHOLE RIM PER NM APWA STD
DWG 2460-2461
- ⑪ BUILD SPEED HUMP PER CORR STD DWG
- ⑭ BUILD CONC. SIDEWALK 4" THICK
SEE DWG DW-01
- ⑮ BUILD DRIVE PAD 6" THICK
SEE DWG DW-01 OR SHT 6 OF PLAN SET
- ⑯ BUILD TYPE "C" CURB RAMP, 15:1 MAX
SLOPE
- ⑰ BUILD TYPE "D" CURB RAMP, 15:1 MAX
SLOPE
- ⑱ BUILD TYPE "B" CURB RAMP, 15:1 MAX
SLOPE
- ⑲ BUILD CONCRETE VALLEY GUTTER PER CORR
STD DTL VG-01, BUILD NEW ASPHALT TO
END OF RETURNS

GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
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4. COORDINATE WITH CITY OF RIO RANCHO TRAFFIC SECTION FOR SIGN PLACEMENT LOCATIONS

LEGEND:

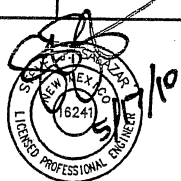
 PROPOSED ROADWAY ASPHALT

**WILSON
& COMPANY**

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PH (505) 898-8021
FAX (505) 898-8501
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

21ST AVE
STA 45+00 TO STA E
ROADWAY PLAN



PROJECT NO.	07600014-34
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DESIGNED BY: ESC

DRAWN BY: DAP

CHECKED BY:	SJS
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DATE: MAY 2010

DPW CHK:

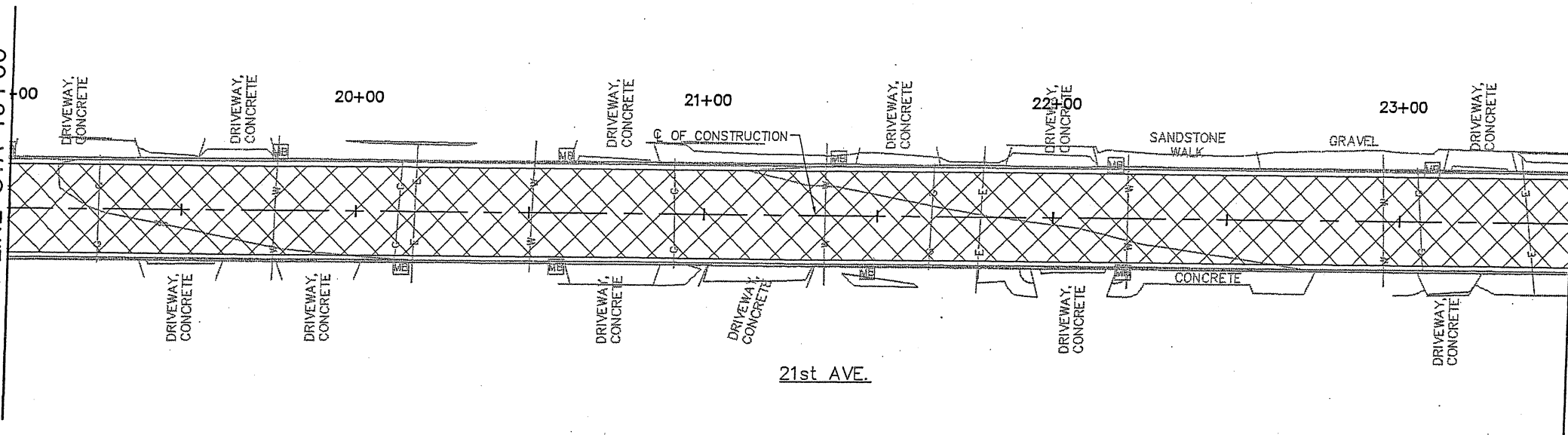
SHEET

12 of 50



11"x17" SCALE:
HORIZ: 1" = 40'

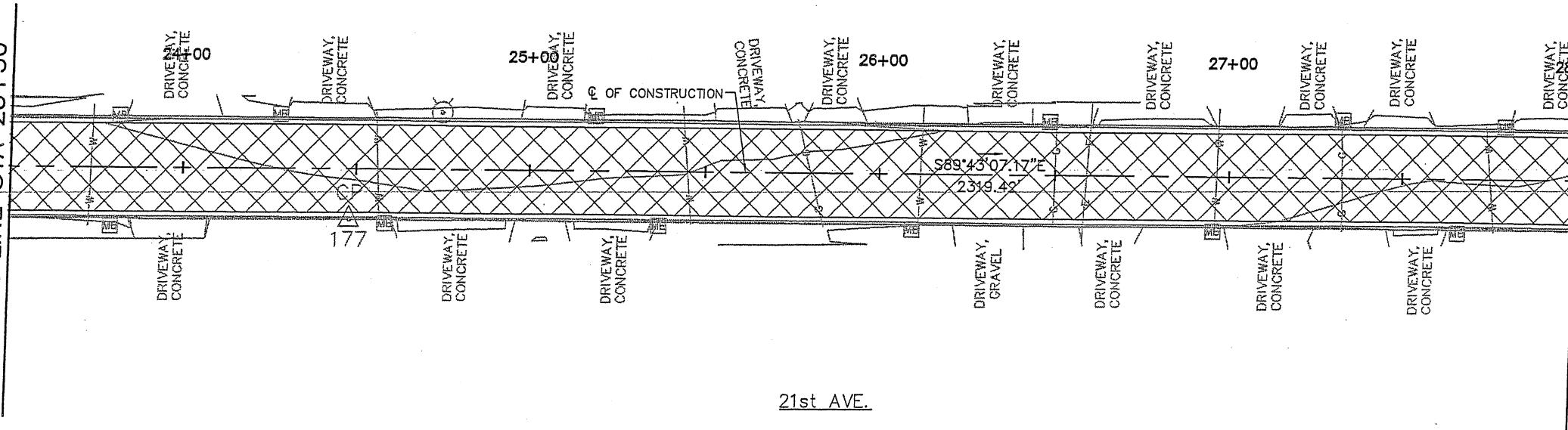
MATCH LINE STA 19+00



21st AVE.

MATCH LINE STA 23+50

MATCH LINE STA 23+50



21st AVE.

MATCH LINE STA 28+00

KEY NOTES:

GENERAL NOTES:

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3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:



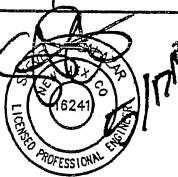
REMOVE AND DISPOSE EXISTING ASPHALT

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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

21st AVE
STA 19+00 TO STA 28+00
DEMOLITION PLAN



PROJECT NO. 07600014-34

DESIGNED BY: ESC

DRAWN BY: DAP

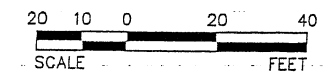
CHECKED BY: SJS

DATE: MAY 2010

DPW CHK:

SHEET

14 of 50



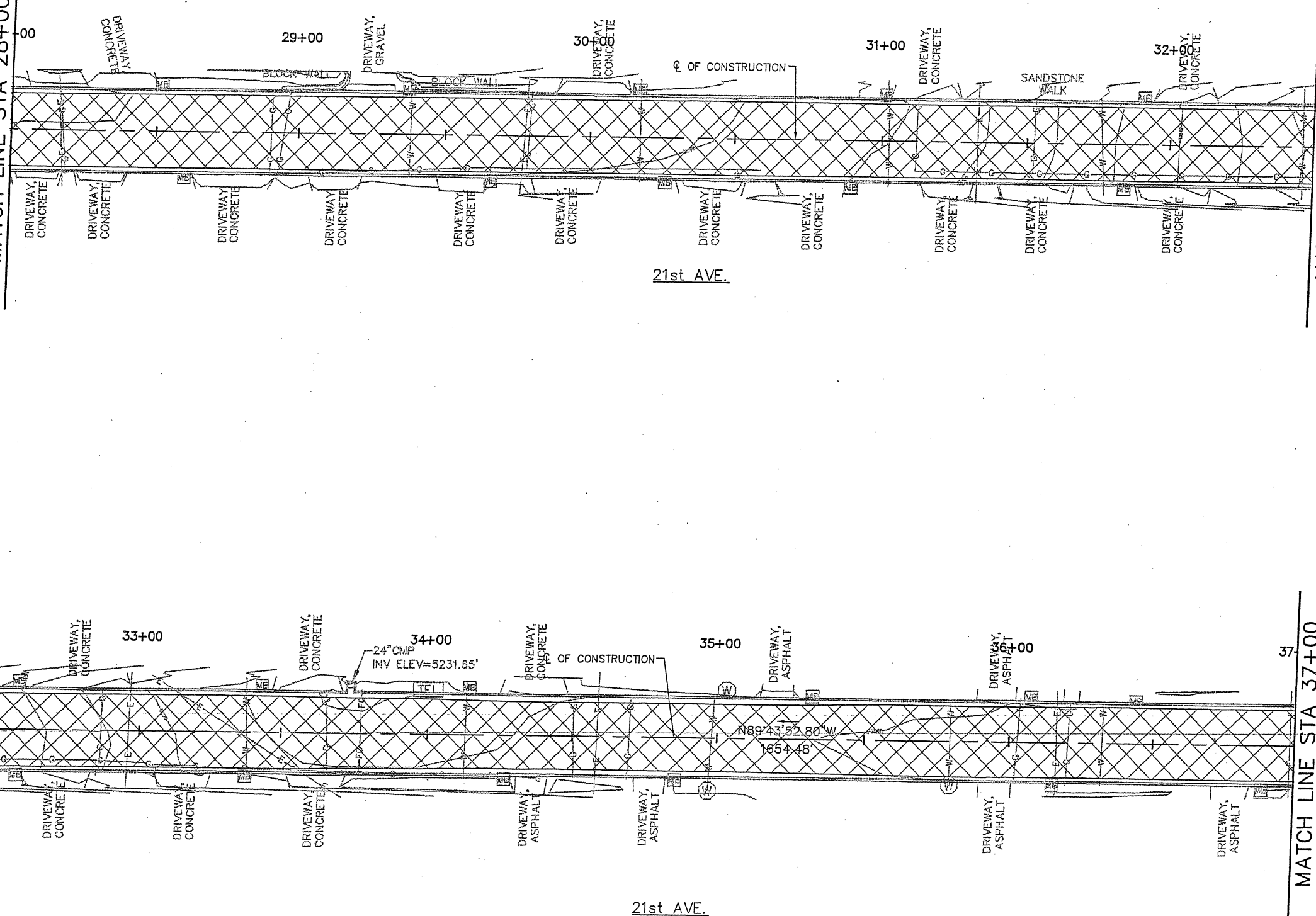
11"x17" SCALE:
HORIZ: 1" = 40'

MATCH LINE STA 28+00

MATCH LINE STA 32+50

MATCH LINE STA 32+50

MATCH LINE STA 37+00




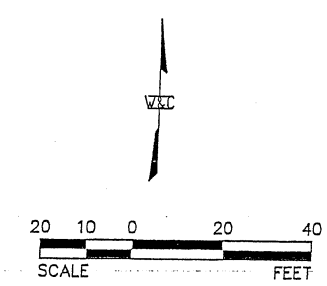
KEY NOTES:

GENERAL NOTES:

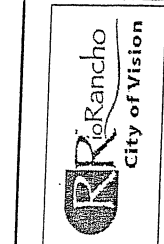
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LEGEND:

 REMOVE AND DISPOSE EXISTING ASPHALT



11"x17" SCALE:
HORIZ: 1" = 40'



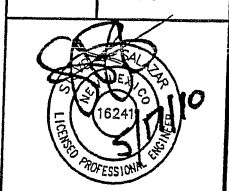
City of Rio Rancho

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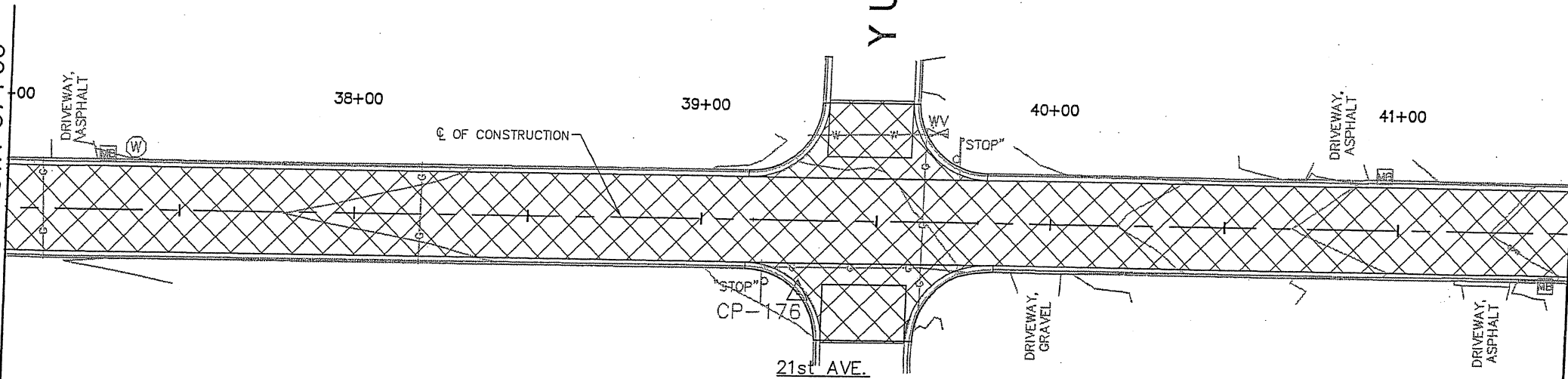
BROADMOOR DRIVE /
21ST AVENUE
ROADWAY IMPROVEMENTS

STA 28+00 TO STA 37+00
DEMOLITION PLAN



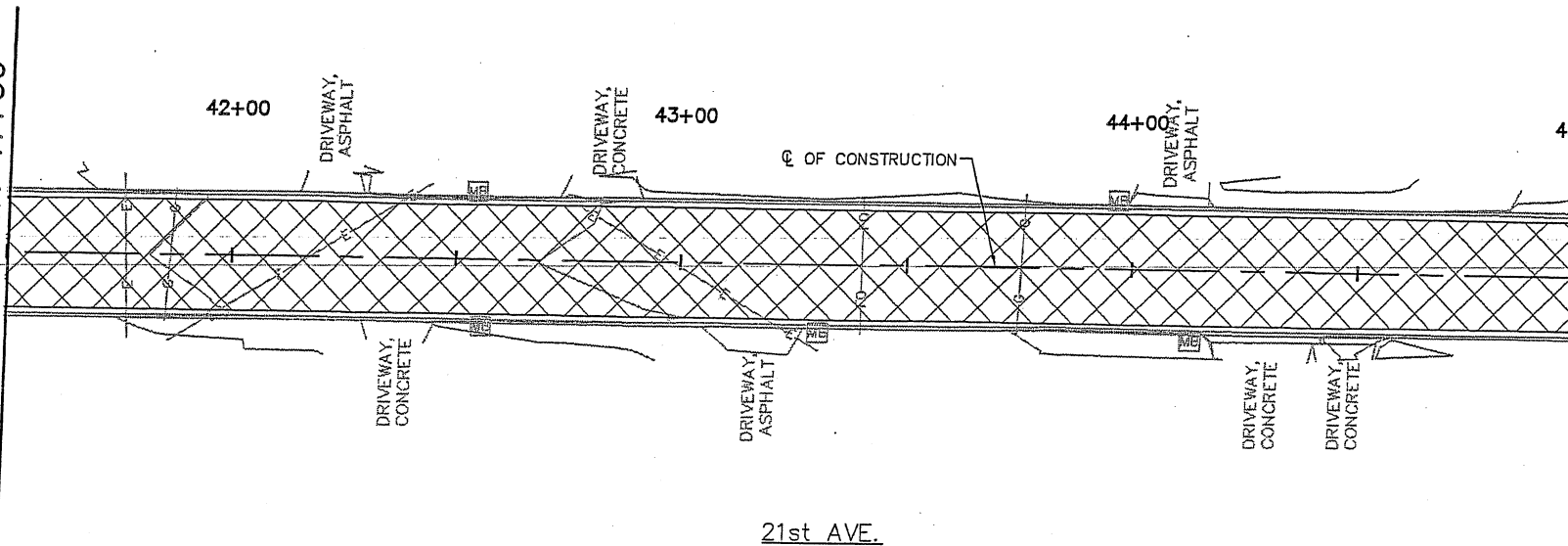
PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	

MATCH LINE STA 37+00



MATCH LINE STA 41+50

MATCH LINE STA 41+50




MATCH LINE STA 45+00

KEY NOTES:

GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL MILLED ASPHALT SURFACING REMOVAL (1.5" MINUS) SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:

 REMOVE AND DISPOSE EXISTING ASPHALT

20 10 0 20 40
SCALE FEET

11"x17" SCALE:
HORIZ: 1" = 40'

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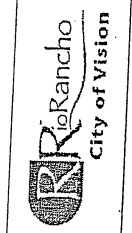
BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

21st AVE
STA 37+00 TO STA 45+00
DEMOLITION PLAN



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

16 of 50



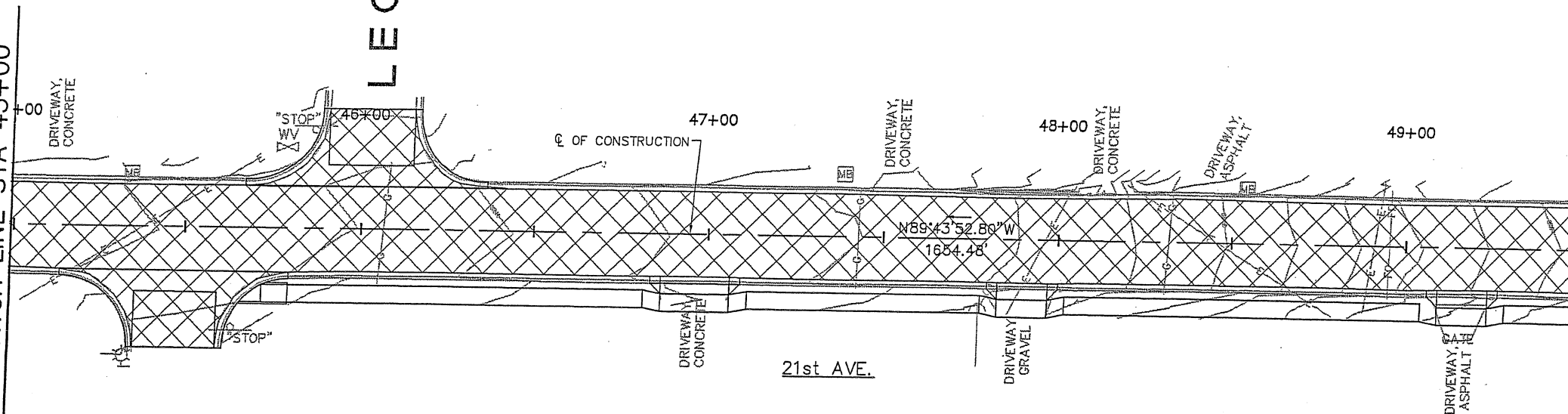
City of Rio Rancho

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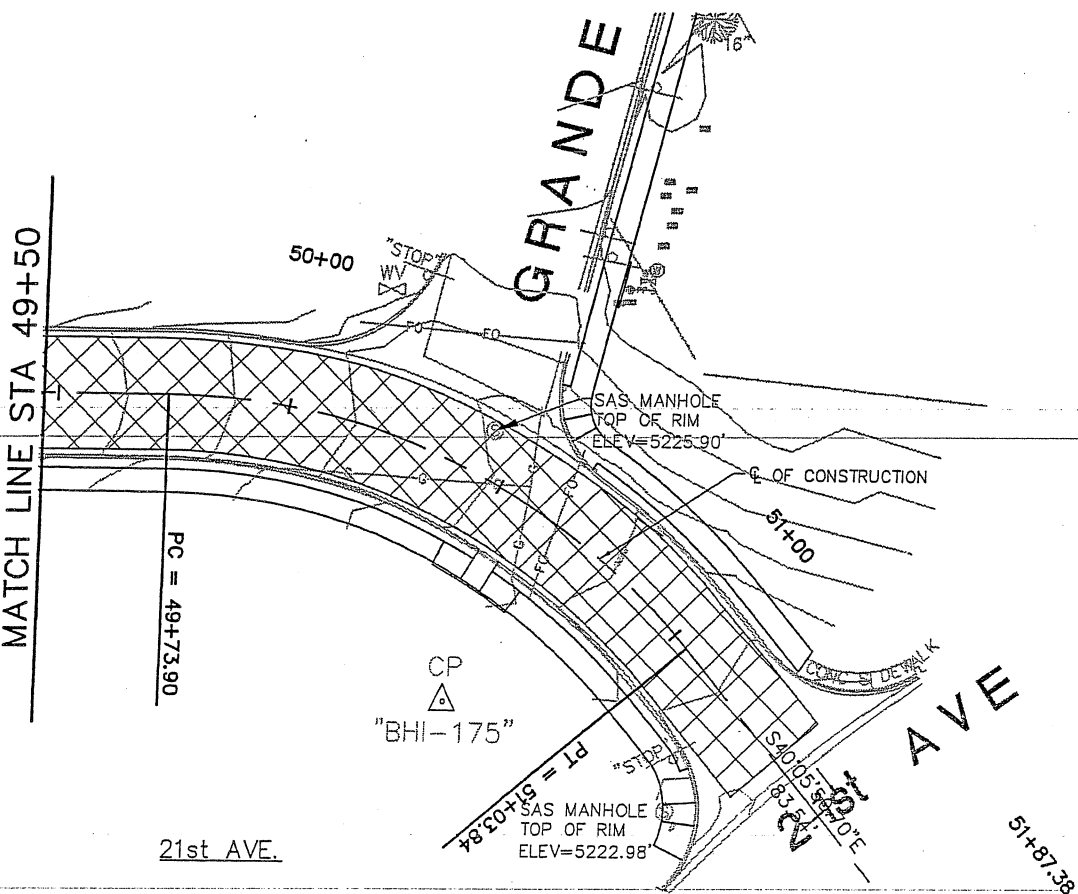
MATCH LINE STA 45+00

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MATCH LINE STA 49+50

MATCH LINE STA 49+50



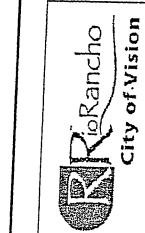
KEY NOTES:

GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL MILLED ASPHALT SURFACING REMOVAL (1.5\"/>

LEGEND:

 REMOVE AND DISPOSE EXISTING ASPHALT



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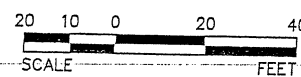
BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

21ST AVE
STA 45+00 TO STA EOP
DEMOLITION PLAN



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

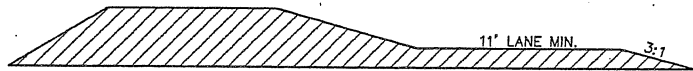
17 of 50



11"x17" SCALE:
HORIZ: 1" = 40'

Traffic Control Notes

1. THE CONTRACTOR/TCP FIRM MUST ADHERE TO THE DATES AND TIMES APPROVED BY CORR. FAILURE TO DO SO WILL RESULT IN NON-PAYMENT.
2. THE CORR RESERVES THE RIGHT TO MAKE ANY CHANGES AND/OR MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN.
3. THE CONTRACTOR/TCP FIRM SHALL ADHERE TO ALL THE REQUIREMENTS LISTED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. IN THE AREAS OF PAVEMENT OPERATIONS OR OTHER ACTIVITIES WITHIN THE TRAVELED WAY AND ADJACENT TO THE EXISTING TRAVELED LANE, THE CONTRACTOR SHALL ASSURE THAT NO PAVEMENT DROP-OFFS ARE LEFT EXPOSED DURING NON-WORKING HOURS. THE CONTRACTOR SHALL INITIATE CORRECTIVE MEANS AS PER "THE NEW MEXICO DEPARTMENT OF TRANSPORTATION PAVEMENT DROP-OFF GUIDELINE" TO ACHIEVE A MINIMUM 6:1 SLOPE BETWEEN TRAVELED LANES AND A MINIMUM 3:1 SLOPE ADJACENT TO THE EXISTING TRAVELED LANE WITH TWO 11 FOOT DRIVING LANES AS SHOWN IN THE DETAIL BELOW.



5. THE CONTRACTORS/TCP FIRM WILL BE REQUIRED TO COVER UP ALL CONFLICTING SIGNS WITHIN OR IN ADVANCED OF THE WORK ZONE.
6. IN COVERING UP ANY CONFLICTING SIGNS, THE CONTRACTOR IS TO USE AN APPROVED METHOD OF COVERING EXISTING SIGNING SO AS NOT TO DAMAGE/DISTORT SIGN SHEETING OR MARKINGS. THE CONTRACTOR/TCP FIRM SHALL NOT PLACE A PATCH ON THE SIGN AND TAPE THE PATCH DIRECTLY TO THE FACE OF THE SIGN. FAILURE TO ADHERE TO THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR/TCP FIRM BEING REQUIRED TO REPLACE THE SIGN AT THEIR EXPENSE.
7. THE CONTRACTOR/TCP FIRM SHALL NOT PLACE A LANE DROP TAPER ALONG A HORIZONTAL CURVE. THE LANE DROP TAPER SHALL BE PLACED IN ADVANCE OF THE HORIZONTAL CURVE SO THAT IT IS VISIBLE TO ALL ONCOMING TRAFFIC.
8. ON CREST VERTICAL CURVES, THE CONTRACTOR/TCP FIRM SHALL PLACE LANE DROPS IN ADVANCE OR AT THE BEGINNING OF THE CURVE TO ENHANCE VISIBILITY OF THE LANE DROP TO ONCOMING TRAFFIC.
9. THE CONTRACTOR/TCP FIRM SHALL CONTACT CORR PROJECT MANAGER AT LEAST 48 HOURS BEFORE ANY WORK LISTED IN THE TCP IS PERFORMED, TO CONFIRM THE ACTUAL START DATED OF THE CONSTRUCTION. CORR PROJECT MANAGER CAN THEN PUBLISH THE UPCOMING WORK, AS NECESSARY.
10. ALL TRAFFIC DEVICES SHALL BE KEPT CLEAN THROUGHOUT THE DURATION OF THE PROJECT. ANY SIGN THAT IS TAGGED BY GRAFFITI SHALL BE CLEANED WITHIN 24 HOURS OR REMOVED AND REPLACED.
11. "BUMP", "LOOSE GRAVEL", "LANE DROP-OFF SIGN" SIGN PLACEMENT THE CONTRACTOR SHALL PLACE W8-1-48 SIGNS ("BUMP"-B/FO), W8-7-48 SIGNS ("LOOSE GRAVE"-B/FO) AND/OR W8-9A-48 SIGNS ("SHOULDER DROP-OFFS"-B/FO) IN ADVANCE OF BRIDGE APPROACHES OR OTHER LOCATIONS DURING COLD MILLING AND OVERLAY OPERATIONS AS NEEDED OR AS DIRECTED BY THE PROJECT MANAGER. SEE STANDARD DRAWINGS 702-01-1/3 FOR SIGN DETAILS.
12. THE FOLLOWING REFLECTIVITY MATERIAL SHALL BE USED ON ALL SIGNING PLACED ON CORR ROADWAYS.

SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING
APPROACH SIGNS	W20-1,2,3,4,5,7	(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
CHEVRONS	W1-8	(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
CURVES	W1-2	(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
REVERSE CURVE	W1-4	(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
MERGE	W4-1	(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
NO PASSING ZONE	W14-3	(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
FLAGGER PADDLE		(BLK/FLOURESCENT Orange side one with Red on side 2)	---	Type VII, VIII or IX
ALL DRUMS		(BLK/FLOURESCENT Orange)	---	Type VII, VIII or IX
All Other Const. Signs		Black on Orange	---	Type III

1. PLACEMENT OF THE SEQUENTIAL ARROW SHALL BE AT OR NEAR THE BEGINNING OF THE LANE CLOSURE TAPER. IN AREAS OF INSUFFICIENT PAVEMENT WIDTH, THE SEQUENTIAL ARROW MAY BE PLACED WITHIN THE TAPER, BUT NOT TO EXCEED ½ THE TAPER LENGTH. IN ALL CASES, THE SEQUENTIAL ARROW SHALL BE PLACED WITHIN THE CHANNELIZATION DEVICES.
2. ALL SIGNING ON THE INTERSTATE AND ON HIGH SPEED 4 LANE DIVIDED FACILITIES SHALL BE DOUBLE INDICATED.
3. ALL SIGNS THAT ARE PART OF WORK ZONE THAT IS IN PLACE FOR MORE THAN 3 DAYS SHALL BE ON POSTS.
4. COVERING EXISTING WHITE AND YELLOW STRIPES WITH BLACK PAINT AS A METHOD OF STRIPE REMOVAL IS STRICLY PROHIBITED.
5. ALL WARNING AND REGULATORY SIGNS SHALL MEET THE FOLLOWING SIZE REQUIREMENTS:
- a. Interstate: Warning sign 48"x48" Regulatory 48"x60"
- b. Non-Interstate Warning sign 36"x36" Regulatory 36"x42"
6. ALL CWB ENDS, WITHIN THE CLEAR ZONE, HAVE TO BE PROTECTED WITH AN APPROVED CRASH ATTENUATOR (APPROVED BASED ON THE DESIGN SPEED OF THE ROAD).
7. IF ANY OF THE SIGNS AND/OR TRAFFIC CONTROL DEVICES, ON THE ATTACHED TCP, ARE BEING USED OVERNIGHT THE MINIMUM REFLECTIVITY STANDARDS SHALL BE REQUIRED:

New MUTCD Table 2A-3. Minimum Maintained Retroreflectivity Levels					
SIGN COLOR	SHEETING TYPE (ASTM D4956-04)				ADDITIONAL CRITERIA
	Beaded Sheeting			Prismatic Sheeting	
	I	II	III	III, IV, VI, VII, VIII, IX, X	
White on Green	W*: G ≥ 7 W*: G ≥ 7	W*: G ≥ 15	W*: G ≥ 25 W ≥ 120; G ≥ 15	W ≥ 250; G ≥ 25	Overhead Ground-mounted
Black on Yellow or Black on Orange	Y*: O		Y ≥ 50; O ≥ 50 Y ≥ 75; O ≥ 75		
White on Red		W ≥ 15; R ≥ 7			4.
Black on White		W ≥ 50			
Ⓢ The minimum maintained retroreflectivity levels shown in this table are in units of cd/lx/m ² measured at an observation angle of 0.2° and an entrance angle of -4.0°.					
Ⓢ For text and fine symbol signs measuring at least 1200 mm (48 in) and for all sizes of bold symbol signs					
Ⓢ For text and fine symbol signs measuring less than 1200 mm (48 in)					
Ⓢ Minimum Sign Contrast Ratio ≥ 3:1 (white retroreflectivity ÷ red retroreflectivity)					
* This sheeting type should not be used for this color for this application.					
BOLD SYMBOL SIGNS					
• W1-1, -2 – Turn and Curve					
• W1-3, -4 – Reverse Turn and Curve					
• W1-5 – Winding Road					
• W1-6, -7 – Large Arrow					
• W1-8 – Chevron					
• W1-10 – Intersection in Curve					
• W1-15 – 270 Degree Loop					
• W2-1 – Cross Road					
• W2-2, -3 – Side Road					
• W2-4, -5 – T and Y Intersection					
• W2-6 – Circular Intersection					
• W3-1 – Stop Ahead					
• W3-2 – Yield Ahead					
• W3-3 – Signal Ahead					
• W4-1 – Merge					
• W4-2 – Lane Ends					
• W4-3 – Added Lane					
• W4-6 – Entering Roadway Added Lane					
• W6-1, -2 – Divided Highway Begins and Ends					
• W6-3 – Two-Way Traffic					
• W10-1, -2, -3, -4, -11, -12 – Highway-Railroad Advance Warning					
• W11-2 – Pedestrian Crossing					
• W11-3 – Deer Crossing					
• W11-4 – Cattle Crossing					
• W11-5 – Farm Equipment					
• W11-6 – Snowmobile Crossing					
• W11-7 – Equestrian Crossing					
• W11-8 – Fire Station					
• W11-10 – Truck Crossing					
• W12-1 – Double Arrow					
• W16-5p, -6p, -7p – Pointing Arrow Plaques					
• W20-7a – Flagger					
• W21-1a – Worker					
FINE SYMBOL SIGNS – Symbol Signs Not Listed As Bold Symbol Signs					
SPECIAL CASES					
• W3-1 – Stop Ahead: Red retroreflectivity ≥ 7					
• W3-2 – Yield Ahead: Red retroreflectivity ≥ 7; White retroreflectivity ≥ 35					
• W3-3 – Signal Ahead: Red retroreflectivity ≥ 7; Green retroreflectivity ≥ 7					
• W3-5 – Speed Reduction: White retroreflectivity ≥ 50					
• For non-diamond shaped signs such W14-3 (No Passing Zone), W4-4p (Cross Traffic Does Not Stop), or W13-1, -2, -3, -5 (Speed Advisory Plaques), use largest sign dimension to determine proper minimum retroreflectivity level.					

GENERAL NOTES

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.



City of Rio Rancho

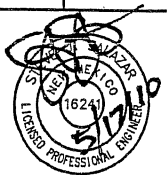
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

TRAFFIC GENERAL NOTES



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

1. WHEN FLARING THE LEADING END OF A TEMPORARY CONCRETE WALL BARRIER (TCWB) WITHIN A CONSTRUCTION WORK ZONE, THE FLARE RATE SHALL BE DONE IN ACCORDANCE WITH THE RATES SHOWN IN THE TABLE BELOW:

Roadway Speed Limit	Minimum Taper/Flare Rate	Desirable Taper/Flare Rate
Less than 45 MPH	8:1	18:1
Between 45 MPH and 55 MPH	10:1	24:1
Greater than 55 MPH	15:1	30:1

2. WHEN CWB IS PLACED IN A CONSTRUCTION WORK ZONE, A 5' BUFFER AREA IS STRONGLY RECOMMENDED BETWEEN THE TEMPORARY CONCRETE WALL BARRIER AND THE WORK ZONE TO ACCOMADATE BARRIER DEFLECTION. WHEN A 5' BUFFER AREA IS NOT ATTAINABLE CONSIDERATION SHALL BE GIVEN TO ANCHORING THE TCWB TO THE PAVEMENT SURFACE. (SEE ATTACHMENT "B" NOTE 8 IN STANDARD DRAWING 606-20-1/4 DATED 1-11-2005).

3. THE CRASH CUSHION ATTENUATORS SHALL BE DESIGNED AS PER THE C.O.R.R. TRAFFIC ENGINEER'S RECOMMENDATIONS. THE DISTRICT MAY ELECT TO EITHER UTILIZE THE POSTED SPEED OR THE 80% SPEED IN THE LAYOUT OF THE CRASH CUSHION ATTENUATORS WITHIN THE WORK ZONE.

4. ALL CONSTRUCTION SIGNING SHALL HAVE A TYPE III OR HIGHER REFLECTIVE BACKGROUND.

5. ALL DEVICES THAT ARE PLACED WITHIN THE C.O.R.R. RW SHALL ADHERE TO SECTION 702- TRAFFIC CONTROL DEVICES FOR CONSTRUCTION - IN THE LATEST EDITION OF THE NMDOT SPECIFICATION BOOK. NON-COMPLIANCE WILL RESULT IN NON-PAYMENT.

6. ALL STATIONARY OBJECTS WITHIN CLEAR ZONE SHALL BE PROPERLY SHIELDED AND OUTLINES WITH DRUMS MOUNTED WITH TYPE "A" WARNING LIGHTS. USE OF VERTICALLY MOUNTED RETRO-REFLECTIVE MATERIAL IN LIEU OF A TYPE A WARNING LIGHT IS STRICTLY PROHIBITED.

7. USE OF TYPE I OR II BARRICADES FOR APPROACH TAPERS ON RURAL INTERSTATE OR SECONDARY ROADWAYS ARE PROHIBITED.

8. ANY EQUIPMENT, MATERIALS, OR VEHICLES STORED WITHIN ROW SHALL BE OUTSIDE OF CLEAR ZONE (BASED ON EXISTING POSTED SPEED).

9. ANY EQUIPMENT, MATERIAL OR VEHICLE STORED WITHIN CLEAR ZONE SHALL BE PROPERLY SHIELDED.

10. MATERIALS, WORK ACTIVITIES, EQUIPMENT, AND VEHICLES SHALL NOT BE STORED WITHIN THE ESTABLISHED BUFFER SPACE.

11. ALL CONSTRUCTION EQUIPMENT, VEHICLES AND MATERIALS SHALL REMAIN BEHIND TRAFFIC CONTROL DEVICES.

12. ALL TRAFFIC CONTROL DEVICE TYPES, QUANTITIES AND SPACING SHALL NOT DEVIATE FROM THE APPROVED TRAFFIC CONTROL PLAN. ANY CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE C.O.R.R. TRAFFIC ENGINEER OR HIS/HER DESIGNEE.

13. THE CONTRACTOR OR THE TRAFFIC CONTROL SUBCONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL SUPERVISOR ON SITE DURING WORKING HOURS FOR IMMEDIATE RESPONSE TO TRAFFIC CONTROL ISSUES/CONCERNS. TRAFFIC CONTROL SUPERVISOR /COMPANY MUST RESPOND WITHIN ONE HOUR OUTSIDE OF NORMAL WORKING HOURS. NON COMPLIANCE WILL RESULT IN NO PAYMENT.

14. THE FOLLOWING TAPER LENGTHS, BUFFER ZONE, AND SPACING OF DEVICES REQUIREMENTS SHALL BE ADHERED TO:

Posted Speed (MPH)	Merging (L) & Shifting Taper (1/2L) Length, (FT.) ¹					Shoulder Taper (Ft.) ²				Transition Area/ Calming Zone ³ (2L) (Ft.)	Buffer Space or Distance ⁴ to Flagger Station	Maximum Spacing			
	Formula	11' lane		12' Lane		1/3 L						of Devices (Ft.) ⁵			
						4'	6'	8'	10'			On a Taper	On a Tangent		
20	L=WS ² /60	75	40	80	40	9	13	18	22	160	115	20	40		
25		115	60	125	65	135	70	14	21	28	35	250	155	25	50
30		165	85	180	90	195	100	20	30	40	50	360	200	30	60
35		225	115	245	125	265	135	27	41	54	68	490	250	35	70
40		295	150	320	160	345	175	36	53	71	89	640	305	40	80
45	L=WS	495	250	540	270	585	295	60	90	120	150	1080	360	45	90
50		550	275	600	300	650	325	67	100	133	167	1200	425	50	100
55		605	305	660	330	715	360	73	110	147	183	1320	495	55	110
60		660	330	720	360	780	390	80	120	160	200	1440	570	60	120
65		715	360	780	390	845	425	87	130	173	217	1560	645	65	130
70		770	385	840	420	910	455	93	140	187	233	1680	730	70	140
75		825	415	900	450	975	490	100	150	200	250	1800	820	75	150

¹ See Section 6C.08 on page 6C-5 and Figure 6C-2 on page 6C-6 of the 2003 MUTCD

² See Section 6C.08 on page 6C-5 and Figure 6C-2 on page 6C-6 of the 2003 MUTCD

³ See Figure 6H-37 on page 6H-79 of the 2003 MUTCD

⁴ See Section 6C.06 on page 6C-04 and 6C-05 of the 2003 MUTCD

1. WORK ZONE INTERIM MARKINGS:

A. THE CONTRACTOR SHALL PLACE REFLECTORIZED PAINTED MARKINGS ON EACH INTERMEDIATE LIFT OF SURFACING OR MILLED SURFACE AT THE END OF DAY'S SURFACING OR MILLING OPERATION. THESE MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DETAILS SHOWN IN FIGURE 1 OR FIGURE 1A ON THIS SHEET. IN THE EVENT THE PAINTED MARKINGS CANNOT BE PLACED AS DESCRIBED ABOVE, THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE PROJECT MANAGER, PLACE MARKING TAPE OR TEMPORARY REFLECTIVE RAISED PAVEMENT MARKERS IN ACCORDANCE WITH THE DETAILS SHOWN IN FIGURE 1 OR FIGURE 1A ON THIS SHEET OR AS DIRECTED BY THE PROJECT MANAGER. INTERIM MARKING TAPE WILL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL ITEM.

B. THE CONTRACTOR SHALL PLACE REMOVABLE MARKING TAPE OR TEMPORARY REFLECTIVE RAISED PAVEMENT MARKERS AFTER PLACEMENT ON THE FINAL LIFT OF SURFACING IF PERMANENT MARKINGS ARE NOT PLACED DURING THE SAME WORKING DAY. THESE MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DETAILS SHOWN IN FIGURE 1 OR 1A ON THIS SHEET OR AS DIRECTED BY THE PROJECT MANAGER. (INCIDENTAL TO TRAFFIC CONTROL ITEM).

C. ON ROADWAYS WITH SEVERE CURVATURE, BROKEN-LINE, INTERIM MARKINGS WITH HALF-CYCLE LENGTHS AND A MINIMUM OF 2 FOOT STRIPES OR A GROUP OF TWO TEMPORARY REFLECTIVE PAVEMENT MARKINGS SPACED 2 FEET APART MAY BE USED WHERE PASSING IS ALLOWED. INTERIM EDGE LINES OR CHANNELIZATION LINES FOR DELINEATION MAY BE USED AS NEEDED OR AS DIRECTED BY THE PROJECT MANAGER. PASSING/NO PASSING ZONE SIGNING TO SUPPLEMENT INTERIM MARKINGS FOR DELINEATION MAY BE USED AS NEEDED OR AS DIRECTED BY THE PROJECT MANAGER. ALL INTERIM MARKINGS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MUTCD. (INCIDENTAL TO TRAFFIC CONTROL ITEM).

FIGURE 1
SHORT TERM WORK ZONE INTERIM MARKINGS
(IN PLACE FOR LESS THAN 14 CALENDAR DAYS)
(MINIMUM OF 2 COATS OR AS DIRECTED BY THE PROJECT MANAGER)

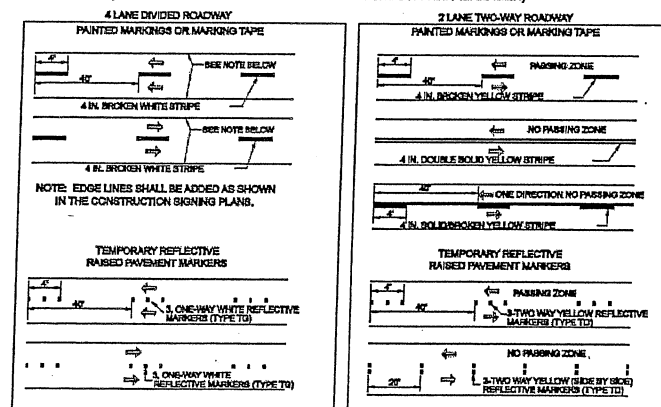
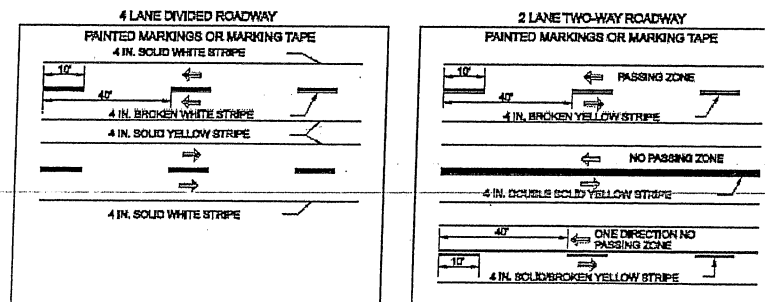


FIGURE 1A
STANDARD WORK ZONE INTERIM MARKINGS
(IN PLACE FOR 14 CALENDAR DAYS OR MORE)
(MINIMUM OF 2 COATS OR AS DIRECTED BY THE PROJECT MANAGER)



City of Rio Rancho

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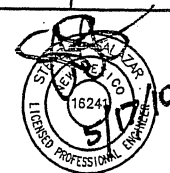
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TRAFFIC GENERAL NOTES



PROJECT NO. 07600014-34

DESIGNED BY: ESC

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SHEET

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GENERAL TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL CONTACT TRAFFIC MANAGER, C.O.R.R. TRAFFIC SECTION, AT (505) 898-8773 PRIOR TO THE START OF CONSTRUCTION TO DETERMINE WHICH OF THE EXISTING PERMANENT SIGNS (THAT ARE SLATED TO BE REPLACED) WILL BE SALVAGED BY THE C.O.R.R. THE CONTRACTOR WILL BE REQUIRED TO DELIVER THOSE SIGNS TO A LOCATION DETERMINED BY THE C.O.R.R. PUBLIC WORKS DEPARTMENT. ALL OTHER SIGNS, POSTS AND SIGN BASES WILL BE DISPOSED OF BY THE CONTRACTOR. ANY COSTS ASSOCIATED WITH THIS ACTIVITY SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.

2. TRAFFIC CONTROL PLAN: THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AND OBTAIN APPROVAL OF THE TRAFFIC CONTROL PERMIT PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON THE PROJECT. THE CONTRACTOR SHALL SUBMIT THE PERMIT TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL BY THE C.O.R.R. TRAFFIC ENGINEER ALONG WITH THE PERMIT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE FOLLOWING:

2.1. A TRAFFIC CONTROL PLAN THAT WILL REFLECT THE CONTRACTOR'S PROPOSED CONSTRUCTION PHASING. THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE C.O.R.R. TRAFFIC ENGINEER. TRAFFIC CONTROL PLANS SHALL HAVE A SCHEDULE OF DEVICES TO BE USED UNDER ITEM 702810 TRAFFIC CONTROL DEVICES FOR CONSTRUCTION.

3. THE C.O.R.R. TRAFFIC SECTION RESERVES THE RIGHT TO MAKE ANY CHANGES TO THE TRAFFIC CONTROL PLAN TO ADDRESS SITE SPECIFIC ITEMS THAT WERE NOT SHOWN ON THE PLANS. THE C.O.R.R. ALSO RESERVES THE RIGHT TO ADD DEVICES AND/OR SIGNS TO THE APPROVED PLAN IF IT IS DETERMINED BY THE TRAFFIC ENGINEER THAT THE SIGNS AND/OR DEVICES WOULD BE REQUIRED TO ADDRESS SAFETY CONCERNS WITHIN OR IN ADVANCE OF THE WORK ZONE. ANY CHANGES TO THE PLANS WHICH RESULT IN ADDITIONAL SIGNS AND/OR DEVICES WILL BE CONSIDERED INCIDENTAL TO ITEM 618000 - TRAFFIC CONTROL MANAGEMENT.

4. THE TRAFFIC CONTROL PERMIT ALONG WITH THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE C.O.R.R. AT LEAST 10 WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED ON AN 11X17 SHEETS. NO HAND DRAFTED TRAFFIC CONTROL PLANS WILL BE ACCEPTED.

5. A COPY OF THE TRAFFIC CONTROL PERMIT MAY BE OBTAINED AT THE C.O.R.R. PUBLIC WORKS DEPARTMENT.

6. THE CONTRACTOR WILL BE FINED AS DETERMINED BY THE CITY OF RIO RANCHO FOR INADEQUATE TRAFFIC CONTROL LANE RENTAL.

7. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

8. CORR DPW SHALL BE NOTIFIED 5 BUSINESS DAYS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

9. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SETUP 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.

10. 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.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:00 A.M. OR END WORK AFTER 5:00 P.M. WITHOUT THE APPROVAL OF CORR DPW.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CORR DPW, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

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

14. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION BY WATER BLASTING OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING (INCIDENTAL TO CONTRACT).

15. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CORR DPW. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

16. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF RIO RANCHO. CORR DPW SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

17. 24 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.

18. 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.

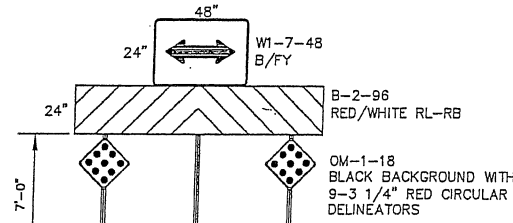
19. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

20. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.

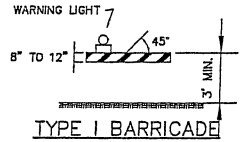
21. PAVEMENT DROP-OFF SHALL COMPLY WITH THE NMDOT PUBLICATION, "PAVEMENT DROP-OFF GUIDELINES FOR MAINTENANCE AND CONSTRUCTION WORK ZONES." (INCIDENTAL TO CONTRACT)

22. CONTRACTOR SHALL PROVIDE 2 ELECTRONIC VARIABLE MESSAGE SIGNS FOR USE BY THE CITY OF RIO RANCHO FOR DURATION OF THE PROJECT (INCIDENTAL TO CONTRACT).

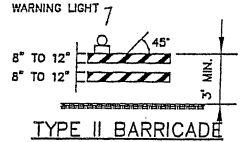
23. THE CONTRACTOR SHALL COORDINATE THEIR EFFORTS WITH THE CONTRACTOR THAT MAY BE DOING THE NIKLAUS CONSTRUCTION PROJECT. THE CONTRACTORS SHALL VERIFY THAT EACH OTHERS TRAFFIC CONTROL WILL NOT INTERFERE WITH THE OTHERS. THE CITY OF RIO RANCHO'S PROJECT MANAGER SHALL BE PRESENT DURING THESE DISCUSSIONS.



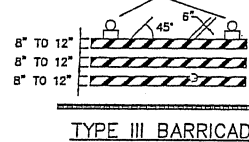
PERMANENT BARRICADE
PER NMDOT SERIAL 701-19-1/1



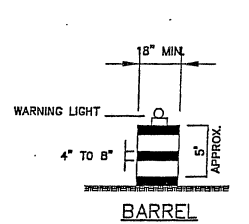
TYPE I BARRICADE
COLLAPSIBLE



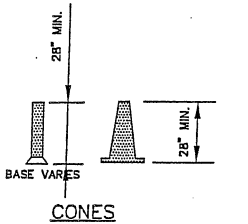
TYPE II BARRICADE
COLLAPSIBLE



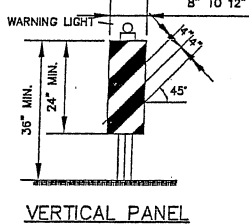
TYPE III BARRICADE
COLLAPSIBLE



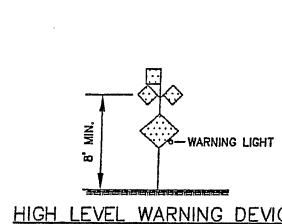
BARREL



CONES

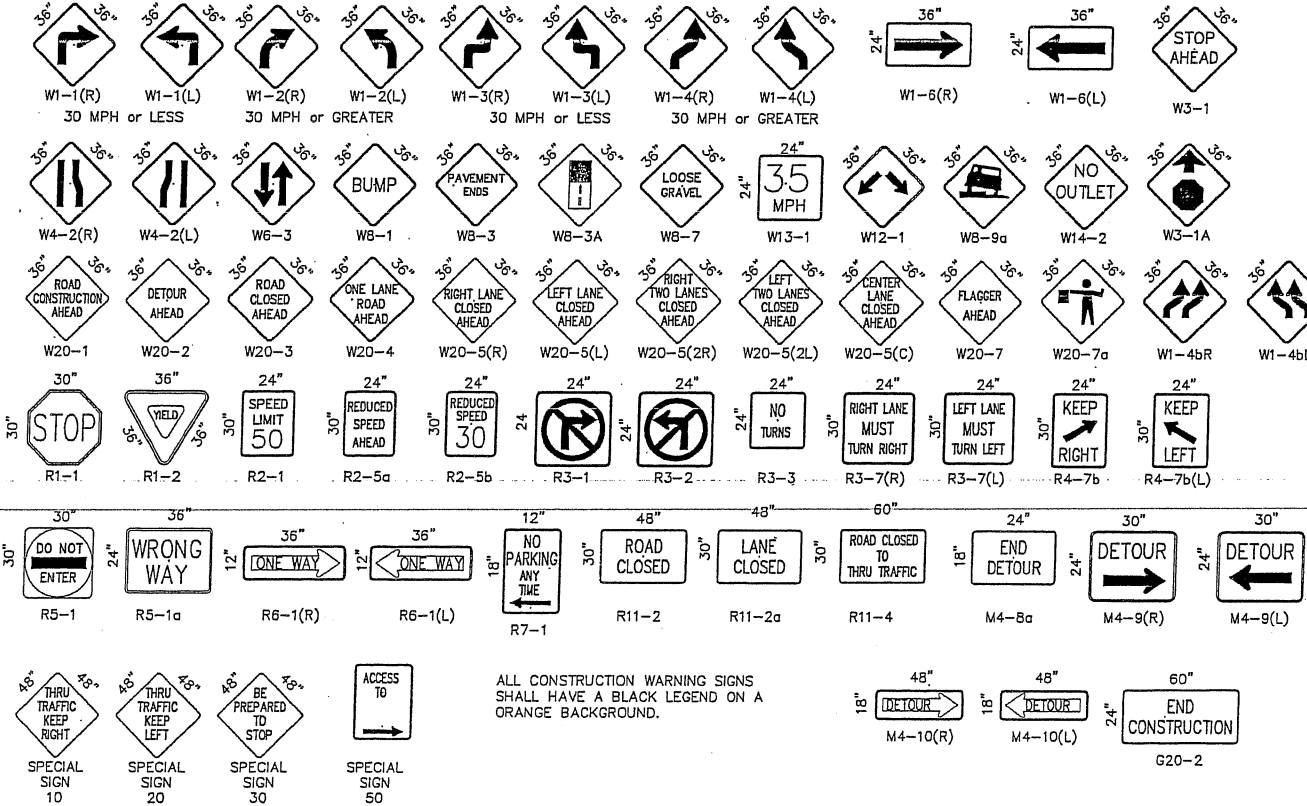


VERTICAL PANEL



HIGH LEVEL WARNING DEVICE

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 BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- FLAGMAN POSITION
- DISTANCE BETWEEN SIGNS (A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET)
- SPACING BETWEEN BARRICADES (A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET)
- TAPER LENGTH (SEE CHART BELOW)
*THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH IN FEET (L)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		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	MINIMUM DISTANCE IN FEET 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:	.1 L MINIMUM
SHIFTING TAPER:	.1/2 L MINIMUM
SHOULDER TAPER:	.1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER:	.100 FEET MAXIMUM
DOWNSTREAM TAPER:	.100 FEET PER LANE

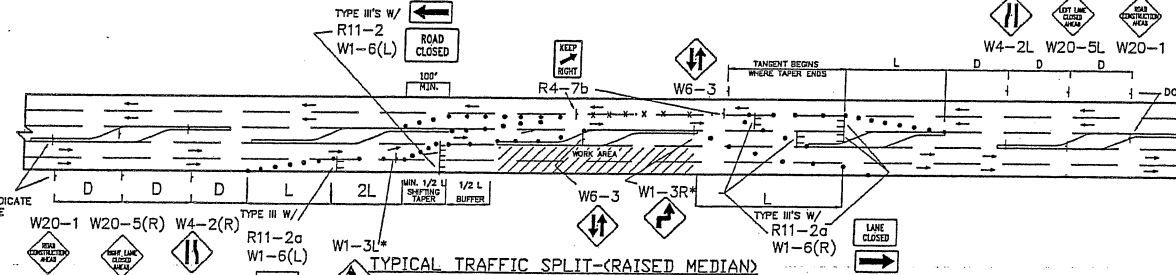
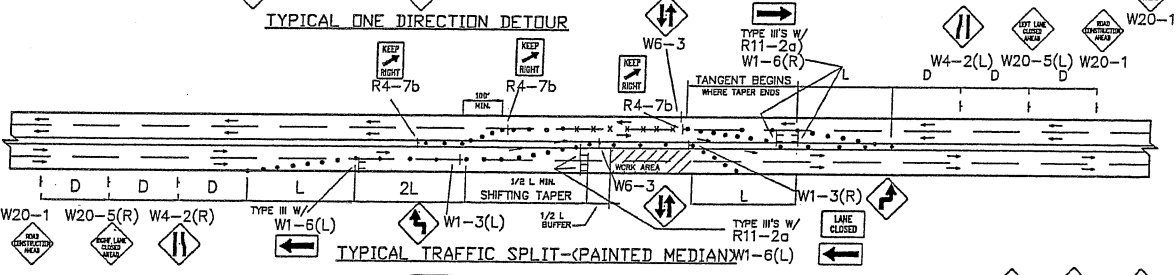
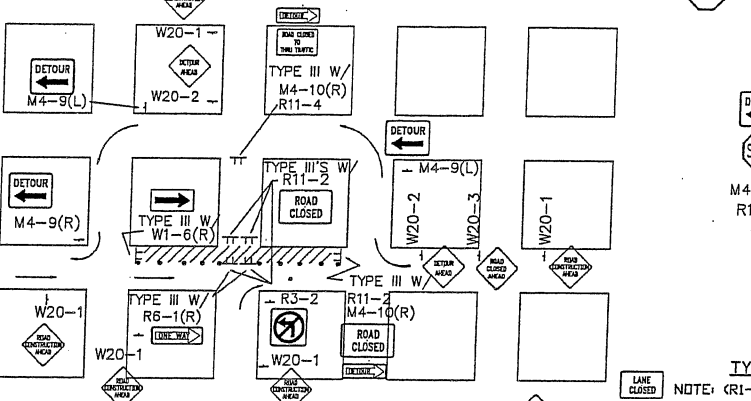
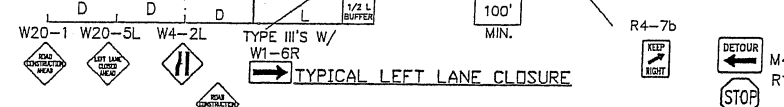
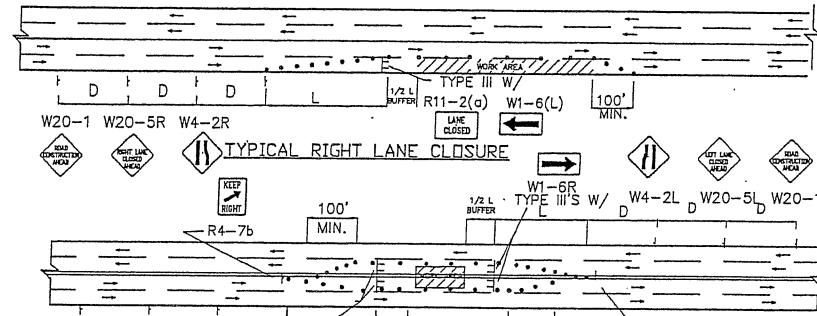
TAPER LENGTH COMPUTATION

SPEED LIMIT

$$L = \frac{WS^2}{60}$$

$$L = W \times S$$

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

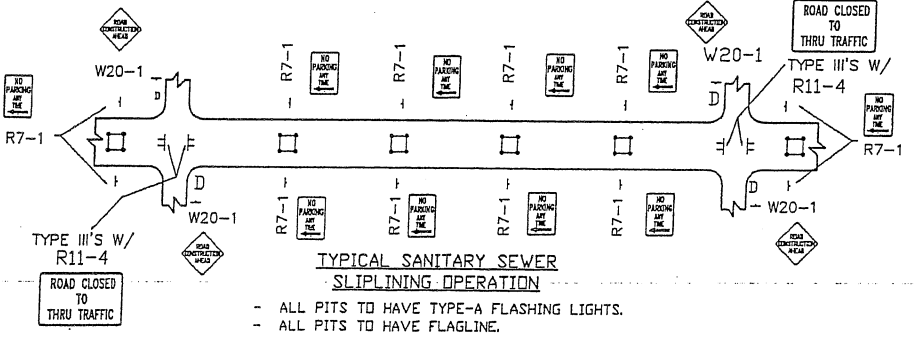


- TRAFFIC SPLIT NOTES:**
1. THE OFFSET DISTANCE SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE 1/2 L. IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L. OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 5. REDUCED SPEED MAY BE CONSIDERED.
 6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.

GENERAL NOTE:

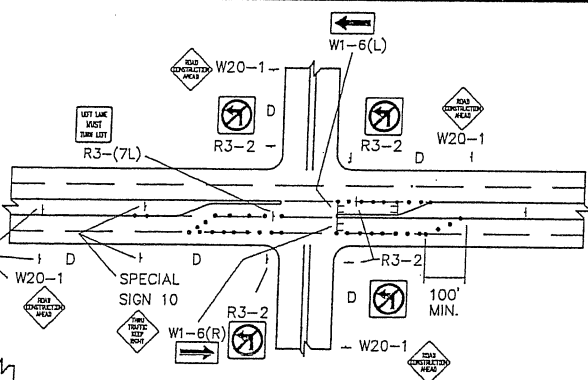
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

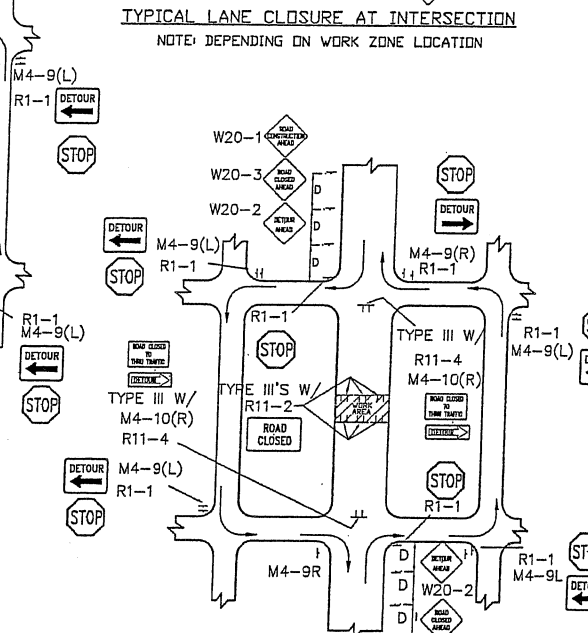


- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

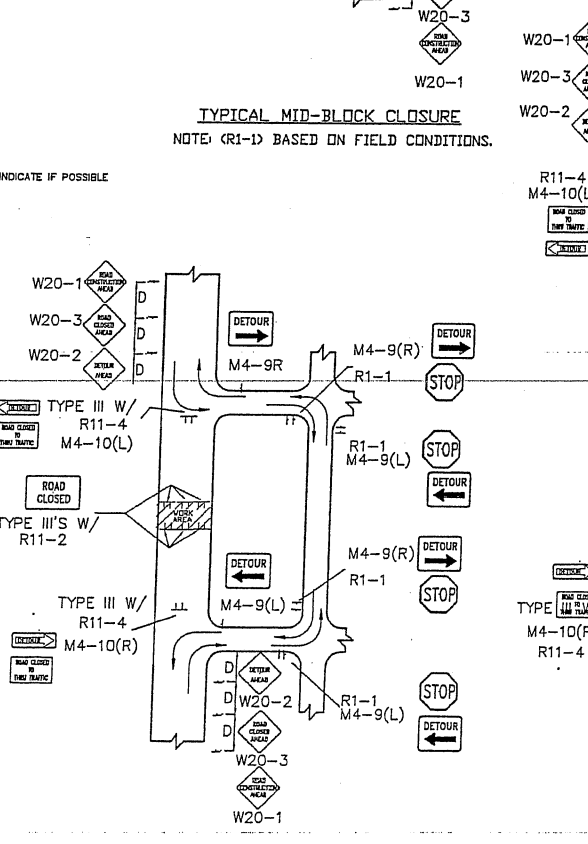
NOTE: MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



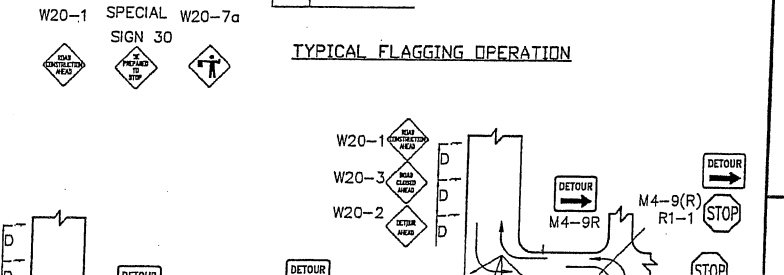
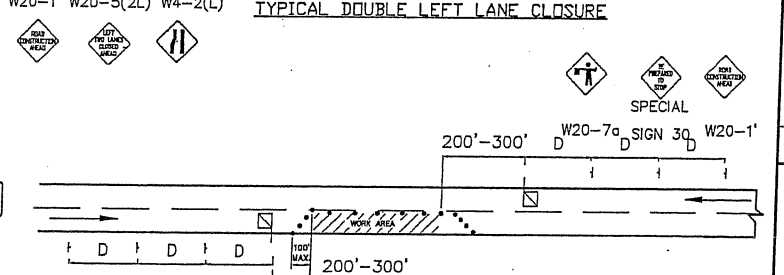
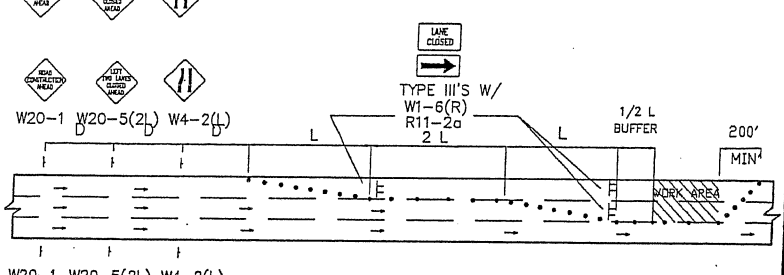
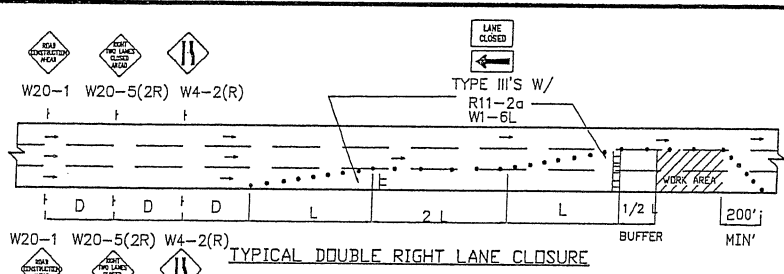
NOTE: DEPENDING ON WORK ZONE LOCATION



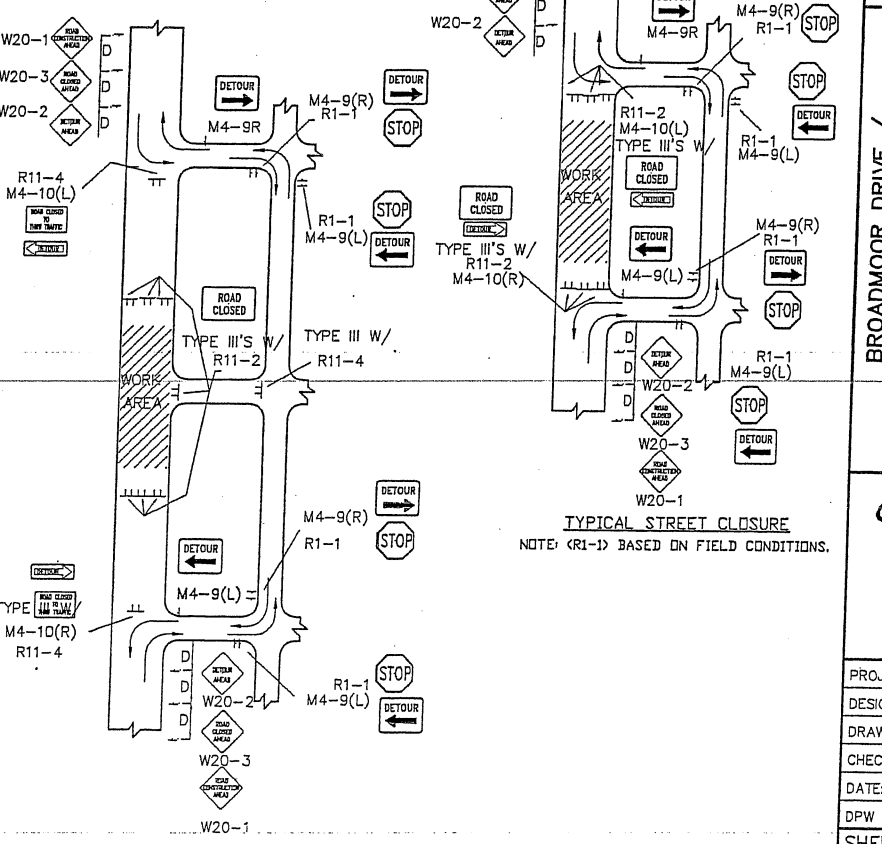
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



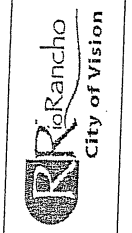
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



NOTE: (R1-1) BASED ON FIELD CONDITIONS.



NOTE: (R1-1) BASED ON FIELD CONDITIONS.

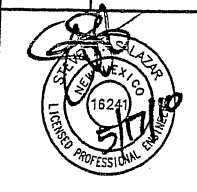


City of Rio Rancho

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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

**TYPICAL TRAFFIC CONTROL
& SIGNING EXAMPLES**

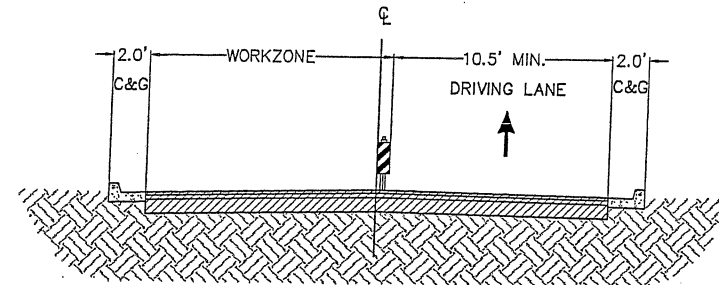


PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	

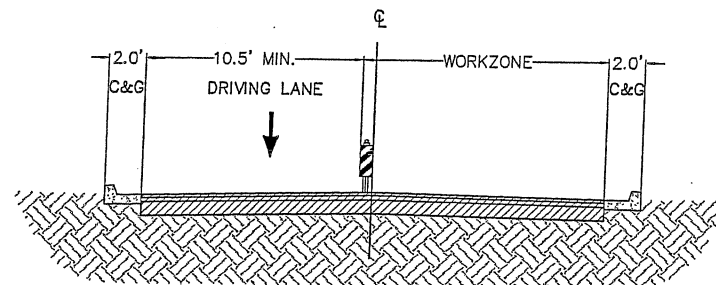
ITEM 702810 - TRAFFIC CONTROL DEVICES FOR CONSTRUCTION - LUMP SUM**

DESCRIPTION	UNITS	QUANTITY
CONSTRUCTION SIGNING	SQ. FT	340
STEEL POSTS AND BASE POSTS	LF	200
BARRICADE, TYPE III - 8 FT	EACH	10
VERTICAL PANEL, TYPE BACK TO BACK	EACH	180
PORTABLE SIGN SUPPORT	EACH	10
PROJECT SIGNS	EACH	5

**For Contractor Information Only. Quantities based on Phase 1



CONSTRUCTION PHASE 2- 21ST AVE.
SCALE : 1" = 5'



CONSTRUCTION PHASE 1- 21ST AVE.
SCALE : 1" = 5'

GENERAL NOTES

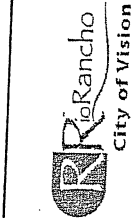
1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.

SUGGESTED
SEQUENCE OF CONSTRUCTION

PHASE 1:
CLOSE EASTBOUND DRIVING LANES. USE FLAGGING OPERATIONS TO DIRECT TRAFFIC PROVIDING A MINIMUM OF 10.5' DRIVING LANE. THEN BUILD EASTBOUND DRIVING LANES, AND SIDEWALK ON SOUTHSIDE WHERE NOTED. REPLACE CURB AND GUTTER WHERE NOTED IN PLANS.

PHASE 2:
CLOSE WESTBOUND DRIVING LANES. USE FLAGGING OPERATIONS TO DIRECT TRAFFIC PROVIDING A MINIMUM OF 10.5' DRIVING LANE. THEN BUILD WESTBOUND DRIVING LANES. REPLACE CURB AND GUTTER WHERE NOTED IN PLANS.

PHASE 3:
BUILD SPEED HUMPS PER DETAIL ON SHEET 47



City of Rio Rancho

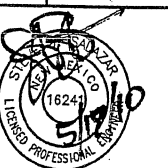
NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

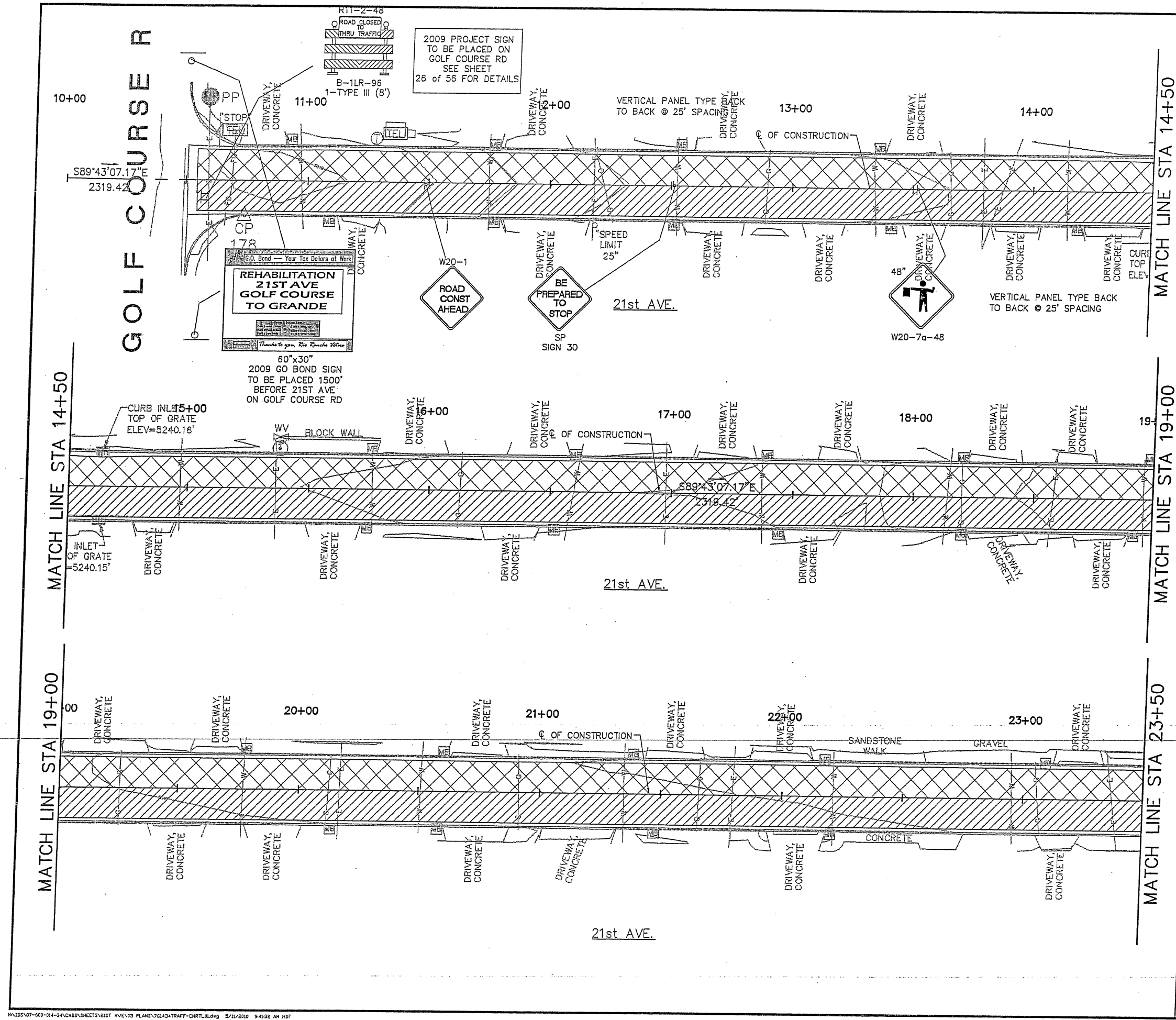
WILSON & COMPANY
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RIO RANCHO, NEW MEXICO 87124
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FAX (505) 898-8501
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21st AVENUE
ROADWAY IMPROVEMENTS

21ST AVE
CONSTRUCTION PHASING
TYPICAL SECTION



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL MILLED ASPHALT SURFACING REMOVAL SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

SUGGESTED SEQUENCE OF CONSTRUCTION

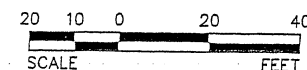
PHASE 1:
CLOSE EASTBOUND DRIVING LANES. USE FLAGGING OPERATIONS TO DIRECT TRAFFIC. PROVIDING A MINIMUM OF 10.5' DRIVING LANE. THEN BUILD EASTBOUND DRIVING LANES, AND SIDEWALK ON SOUTHSIDE WHERE NOTED. REPLACE CURB AND GUTTER WHERE NOTED IN PLANS.

PHASE 2:
CLOSE WESTBOUND DRIVING LANES. USE FLAGGING OPERATIONS TO DIRECT TRAFFIC. PROVIDING A MINIMUM OF 10.5' DRIVING LANE. THEN BUILD WESTBOUND DRIVING LANES. REPLACE CURB AND GUTTER WHERE NOTED IN PLANS.

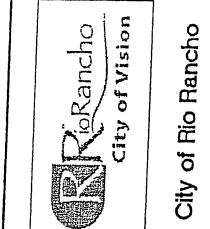
PHASE 3:
BUILD SPEED HUMPS

LEGEND:

- CONSTRUCTION PHASE 1
- CONSTRUCTION PHASE 2



11"x17" SCALE:
HORIZ: 1" = 40'



NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

21ST AVE
STA 10+00 TO STA 23+50
CONSTRUCTION PHASING

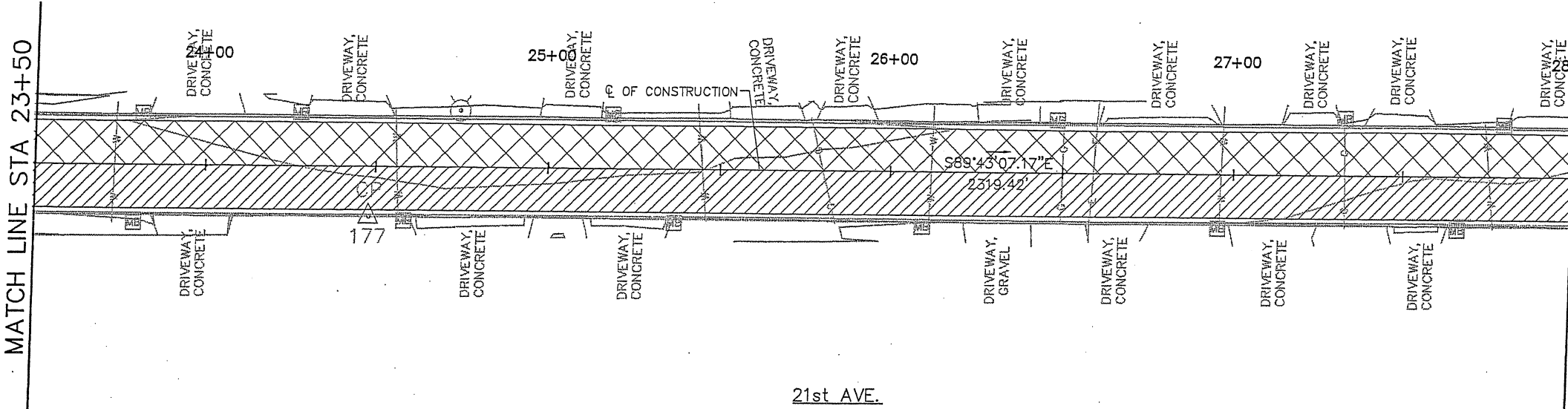
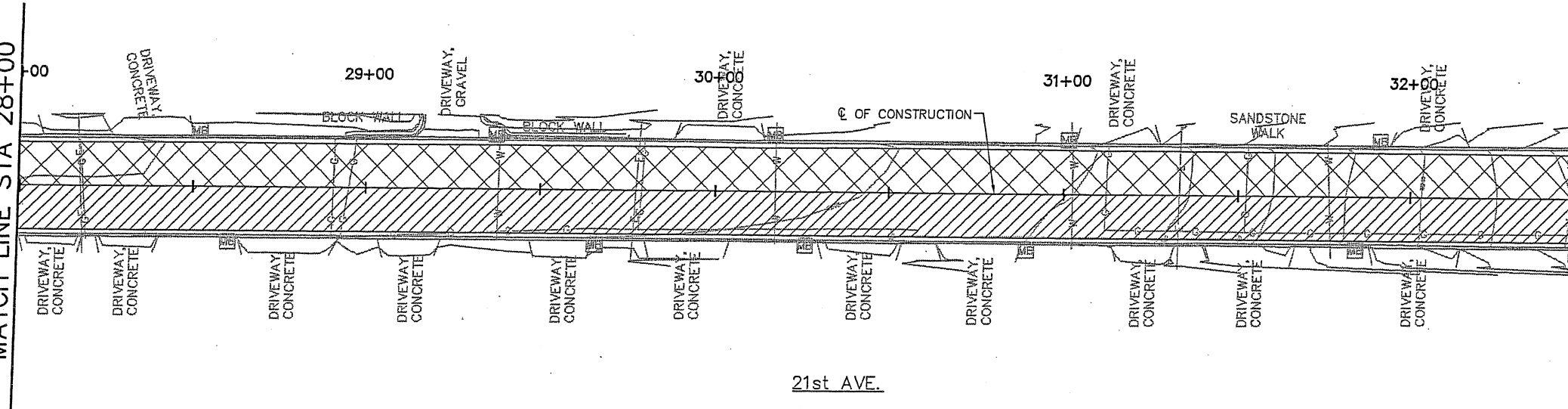
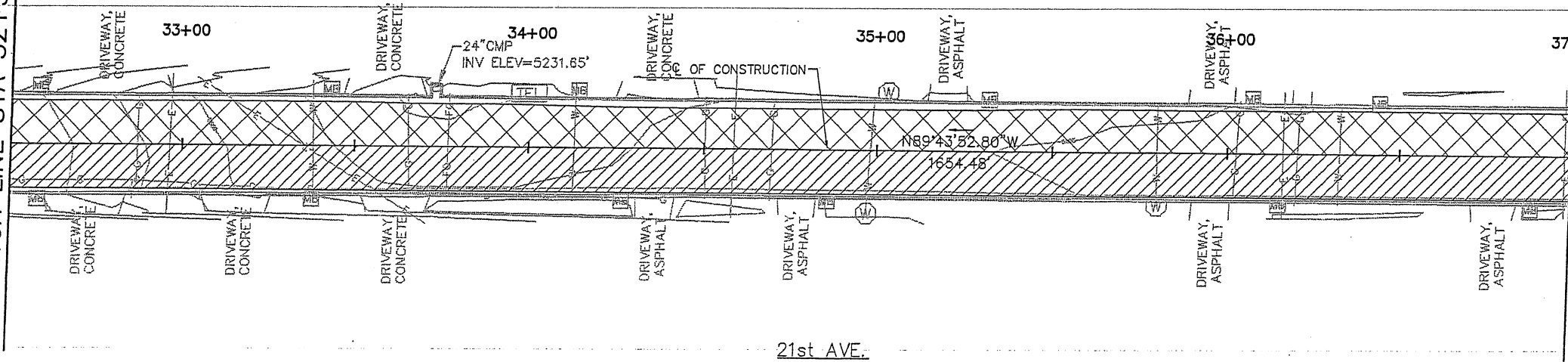


PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

MATCH LINE STA 32+50

MATCH LINE STA 28+00

MATCH LINE STA 23+50



MATCH LINE STA 37+00

MATCH LINE STA 32+50

MATCH LINE STA 28+00

- LEGEND:**
- CONSTRUCTION PHASE 1
 - CONSTRUCTION PHASE 2

PHASE 3:
BUILD SPEED HUMPS.

PHASE 2:
CLOSE WESTBOUND DRIVING LANES. USE
FLAGGING OPERATIONS TO DIRECT TRAFFIC
PROVIDING A MINIMUM OF 10.5' DRIVING
LANE. THEN BUILD WESTBOUND DRIVING
LANES. REPLACE CURB AND GUTTER WHERE
NOTED IN PLANS.

**SUGGESTED
SEQUENCE OF CONSTRUCTION**

3. ONLY REMOVE ASPHALT WITHIN CURB AND
GUTTER LIMITS. NO CONCRETE WORK TO BE
DONE UNLESS OTHERWISE NOTED.

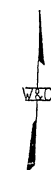
2. ALL MILLED ASPHALT SURFACING
REMOVAL SHALL BE STOCK PILED WITHIN 6
MILE RADIUS FOR PROJECT LOCATION. PROJECT
MANAGER WILL PROVIDE LOCATION.

GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY
SHALL BE CONSTRUCTED BY A LICENSED
CONTRACTOR AND REQUIRES PERMIT AND
APPROVAL BY CITY OF RIO RANCHO
DEPARTMENT OF PUBLIC WORKS DEPT.

11"x17" SCALE:
HORIZ: 1" = 40'

20 10 0 20 40
SCALE FEET



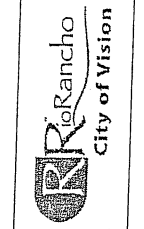
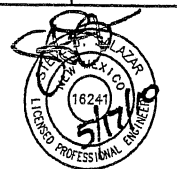
PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET

24 of 50

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

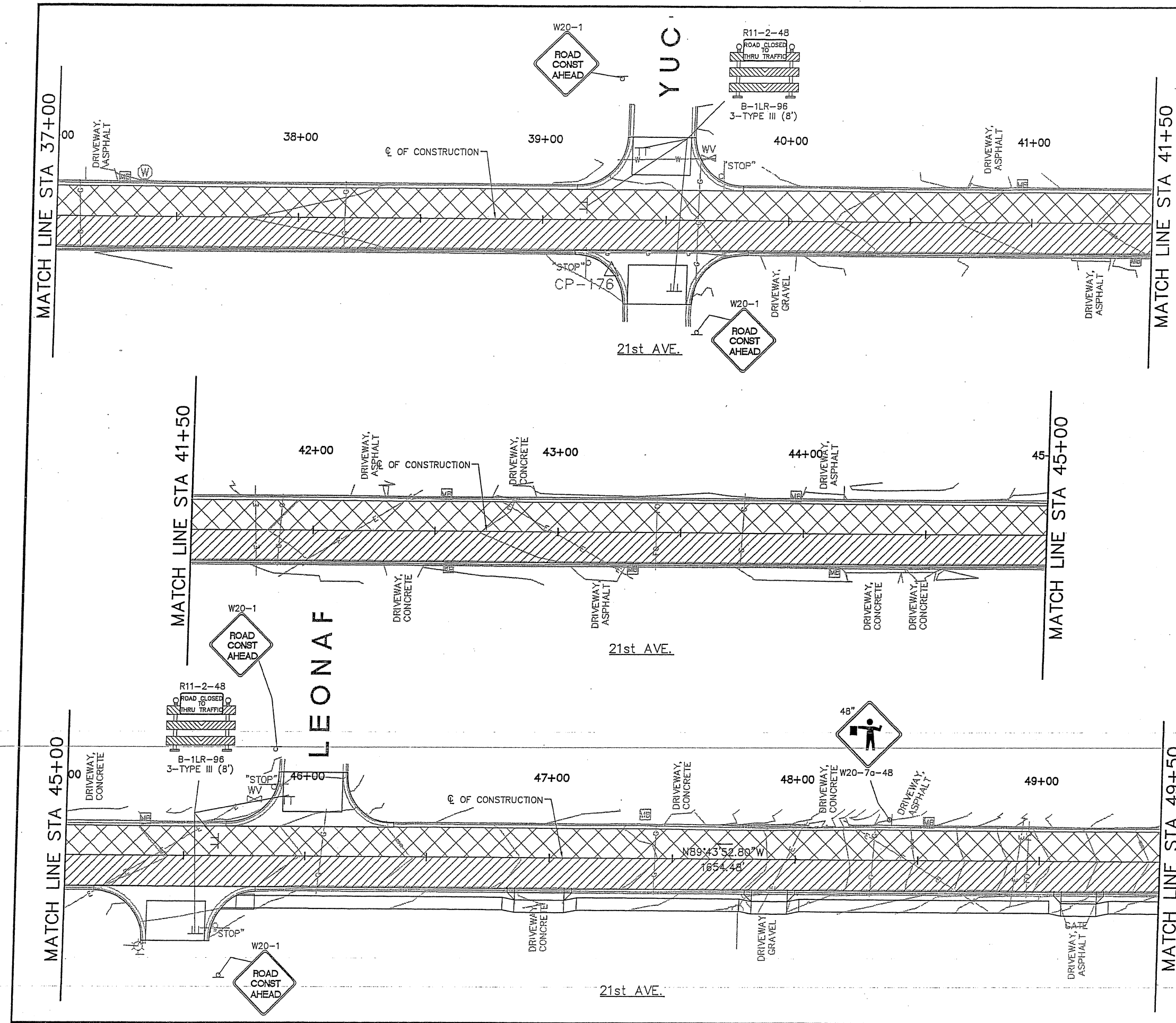
21ST AVE
STA 23+50 TO STA 37+00
CONSTRUCTION PHASING

**WILSON
& COMPANY**
2600 AMERICAN RD. SE. STE. 100
RIO RANCHO, NEW MEXICO 87124
PH (505) 898-8021
FAX (505) 898-8501
www.wilsonco.com



City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)



GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT..
2. ALL MILLED ASPHALT SURFACING REMOVAL SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

SUGGESTED SEQUENCE OF CONSTRUCTION

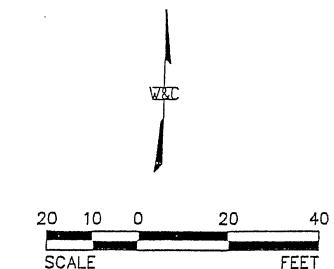
PHASE 1:
CLOSE EASTBOUND DRIVING LANES. USE FLAGGING OPERATIONS TO DIRECT TRAFFIC. PROVIDING A MINIMUM OF 10.5' DRIVING LANE. THEN BUILD EASTBOUND DRIVING LANES, AND SIDEWALK ON SOUTHSIDE WHERE NOTED. REPLACE CURB AND GUTTER WHERE NOTED IN PLANS.

PHASE 2:
CLOSE WESTBOUND DRIVING LANES. USE FLAGGING OPERATIONS TO DIRECT TRAFFIC. PROVIDING A MINIMUM OF 10.5' DRIVING LANE. THEN BUILD WESTBOUND DRIVING LANES. REPLACE CURB AND GUTTER WHERE NOTED IN PLANS.

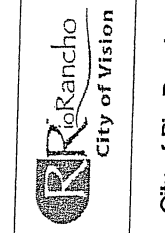
PHASE 3:
BUILD SPEED HUMPS.

LEGEND:

- CONSTRUCTION PHASE 1
- CONSTRUCTION PHASE 2



11"x17" SCALE:
HORIZ: 1" = 40'



City of Rio Rancho

NO.	DESCRIPTION	DATE	BY
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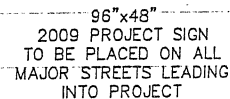
REVISIONS (OR CHANGE NOTICES)

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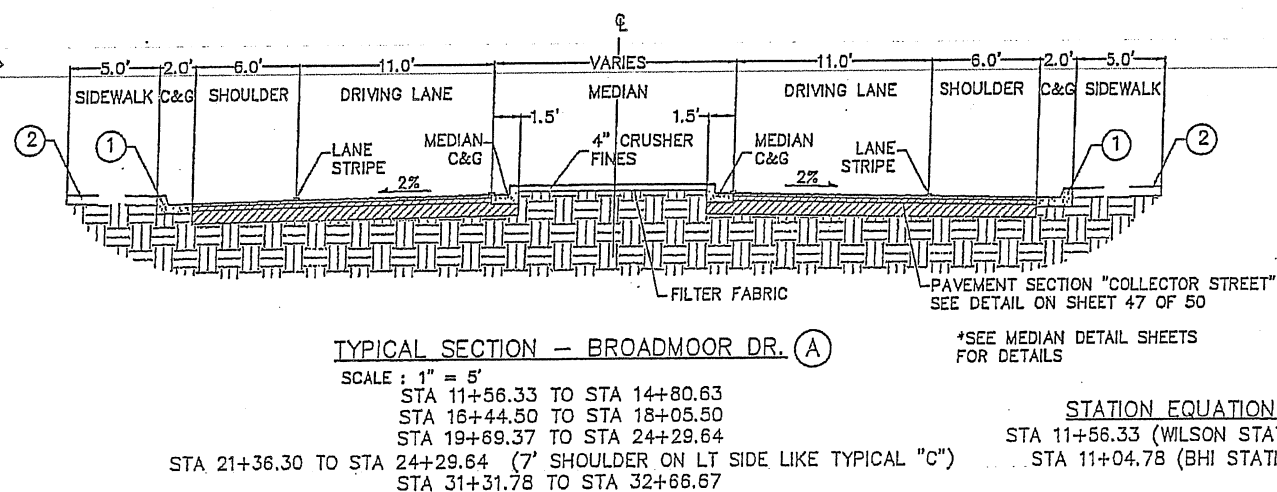
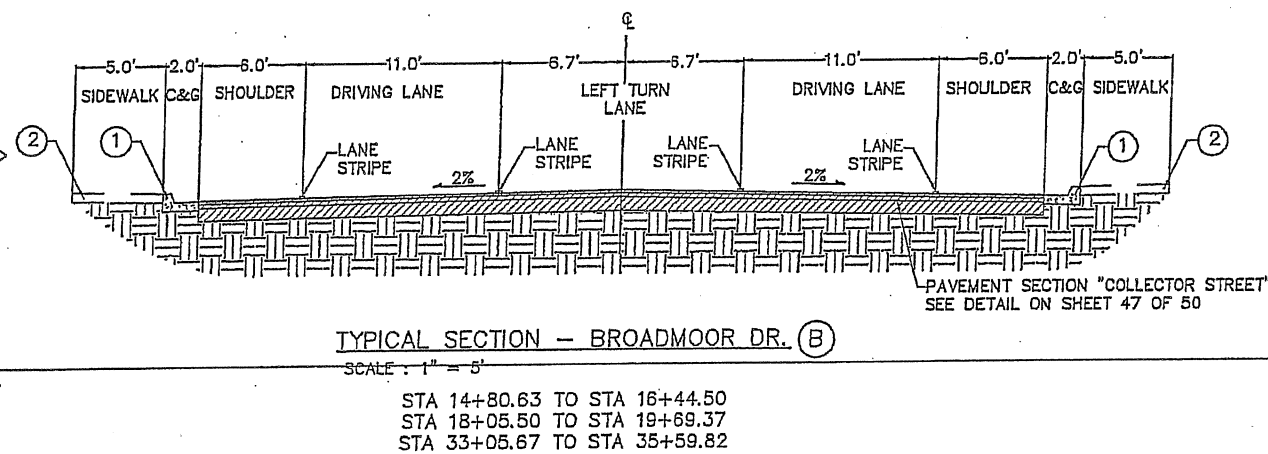
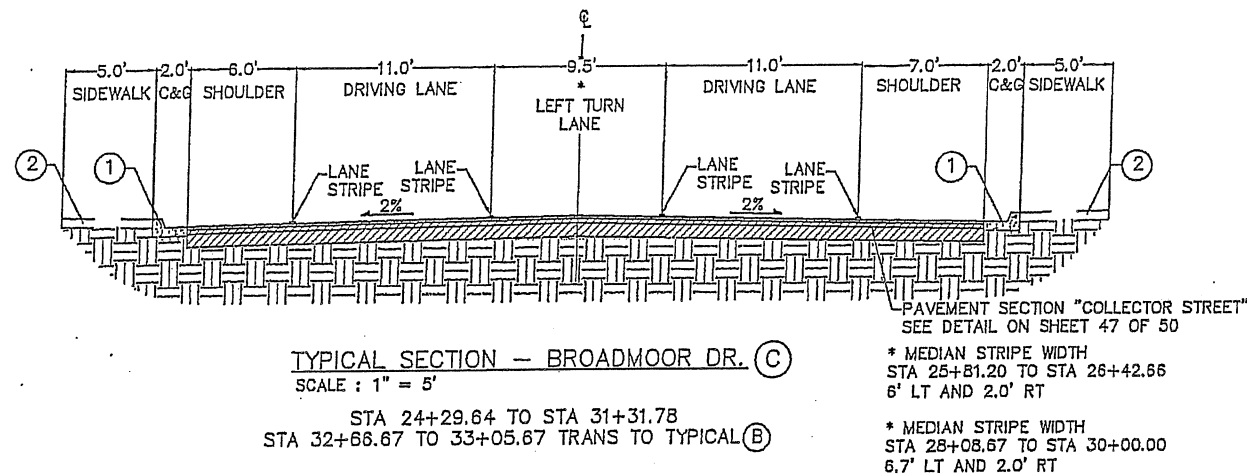
BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
21st AVE
STA 37+00 TO STA 49+50
CONSTRUCTION PHASING



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



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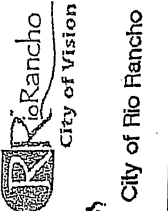


KEYED NOTES

- EXISTING CURB AND GUTTER TO REMAIN IN PLACE.
- EXISTING SIDEWALK TO REMAIN IN PLACE.

GENERAL NOTES

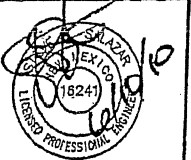
- ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT..
- PAVEMENT SECTION IN ACCORDANCE WITH STANDARD DRAWING OR APPROVED PAVEMENT DESIGN DESIGN PER PS-01, COLLECTOR STREET.



NO.	REVISIONS (OR CHANGE NOTICES)	DATE	BY
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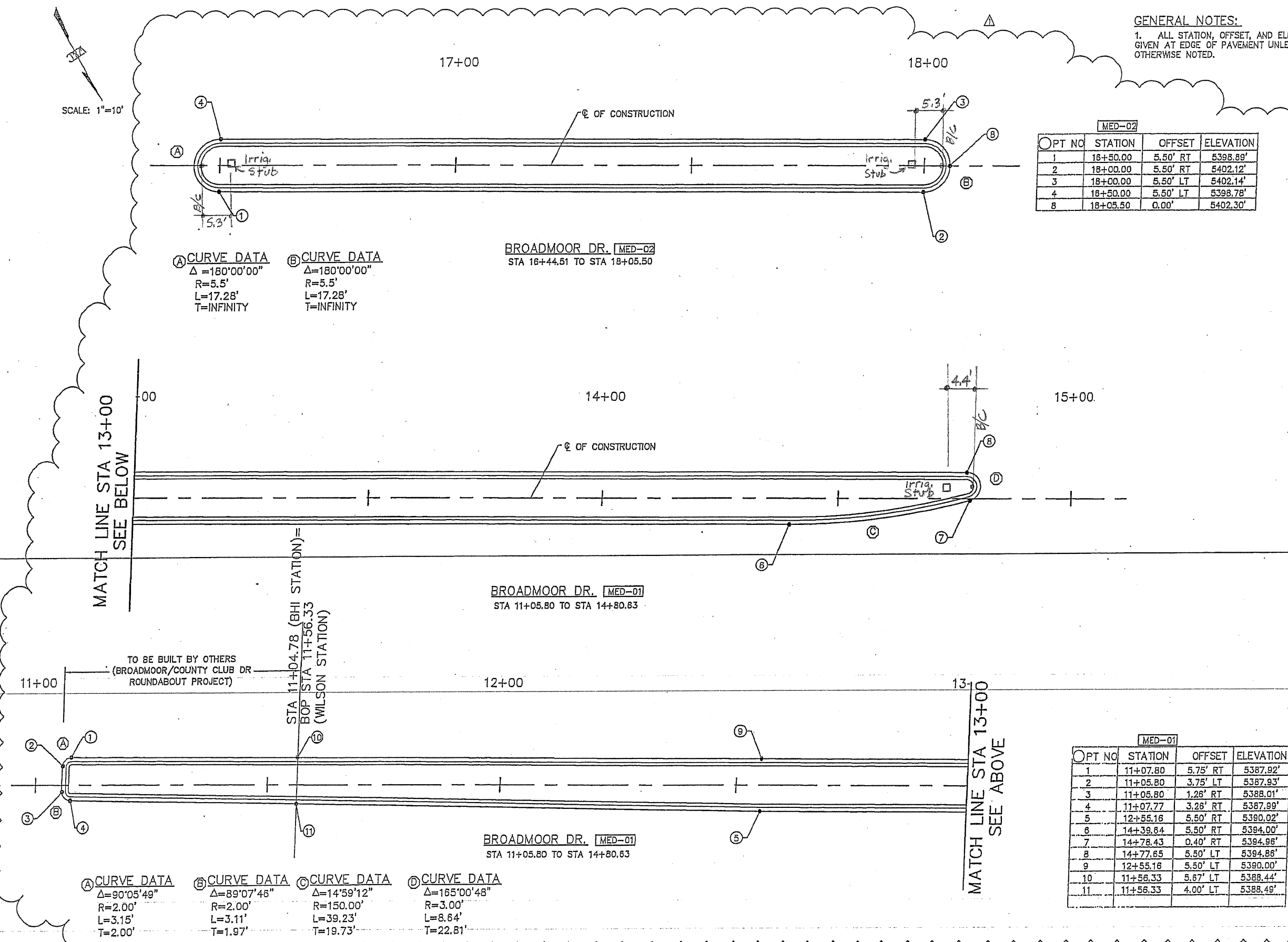
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 RIO RANCHO, NEW MEXICO 87124
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 www.wilsonco.com

BROADMOOR DRIVE /
 21st AVENUE
 ROADWAY IMPROVEMENTS
 BROADMOOR DR
 TYPICAL
 ROADWAY SECTION



PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPIV CHK:	
SHEET	

SCALE: 1"=10'



GENERAL NOTES:
1. ALL STATION, OFFSET, AND ELEVATION IS GIVEN AT EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

MED-02			
OPT NO	STATION	OFFSET	ELEVATION
1	16+50.00	5.50' RT	5398.89'
2	18+00.00	5.50' RT	5402.12'
3	18+00.00	5.50' LT	5402.14'
4	18+50.00	5.50' LT	5398.78'
8	18+05.50	0.00'	5402.30'

A) CURVE DATA
 $\Delta = 180^{\circ}00'00''$
 $R = 5.5'$
 $L = 17.28'$
 $T = \text{INFINITY}$

B) CURVE DATA
 $\Delta = 180^{\circ}00'00''$
 $R = 5.5'$
 $L = 17.28'$
 $T = \text{INFINITY}$

BROADMOOR DR. MED-02
STA 16+44.51 TO STA 18+05.50

BROADMOOR DR. MED-01
STA 11+05.80 TO STA 14+80.63

TO BE BUILT BY OTHERS
(BROADMOOR/COUNTY CLUB DR
ROUNDBOUT PROJECT)

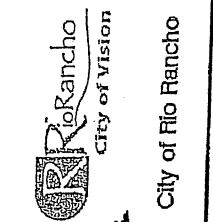
A) CURVE DATA
 $\Delta = 90^{\circ}05'49''$
 $R = 2.00'$
 $L = 3.15'$
 $T = 2.00'$

B) CURVE DATA
 $\Delta = 89^{\circ}07'46''$
 $R = 2.00'$
 $L = 3.11'$
 $T = 1.97'$

C) CURVE DATA
 $\Delta = 14^{\circ}59'12''$
 $R = 150.00'$
 $L = 39.23'$
 $T = 19.73'$

D) CURVE DATA
 $\Delta = 165^{\circ}00'48''$
 $R = 3.00'$
 $L = 8.64'$
 $T = 22.81'$

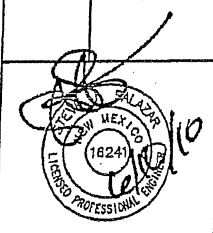
MED-01			
OPT NO	STATION	OFFSET	ELEVATION
1	11+07.80	5.75' RT	5387.92'
2	11+05.80	3.75' LT	5387.93'
3	11+05.80	1.26' RT	5388.01'
4	11+07.77	3.26' RT	5387.99'
5	12+55.16	5.50' RT	5390.02'
6	14+39.64	5.50' RT	5394.00'
7	14+78.43	0.40' RT	5394.96'
8	14+77.65	5.50' LT	5394.86'
9	12+55.16	5.50' LT	5390.00'
10	11+56.33	5.67' LT	5388.44'
11	11+56.33	4.00' LT	5388.49'



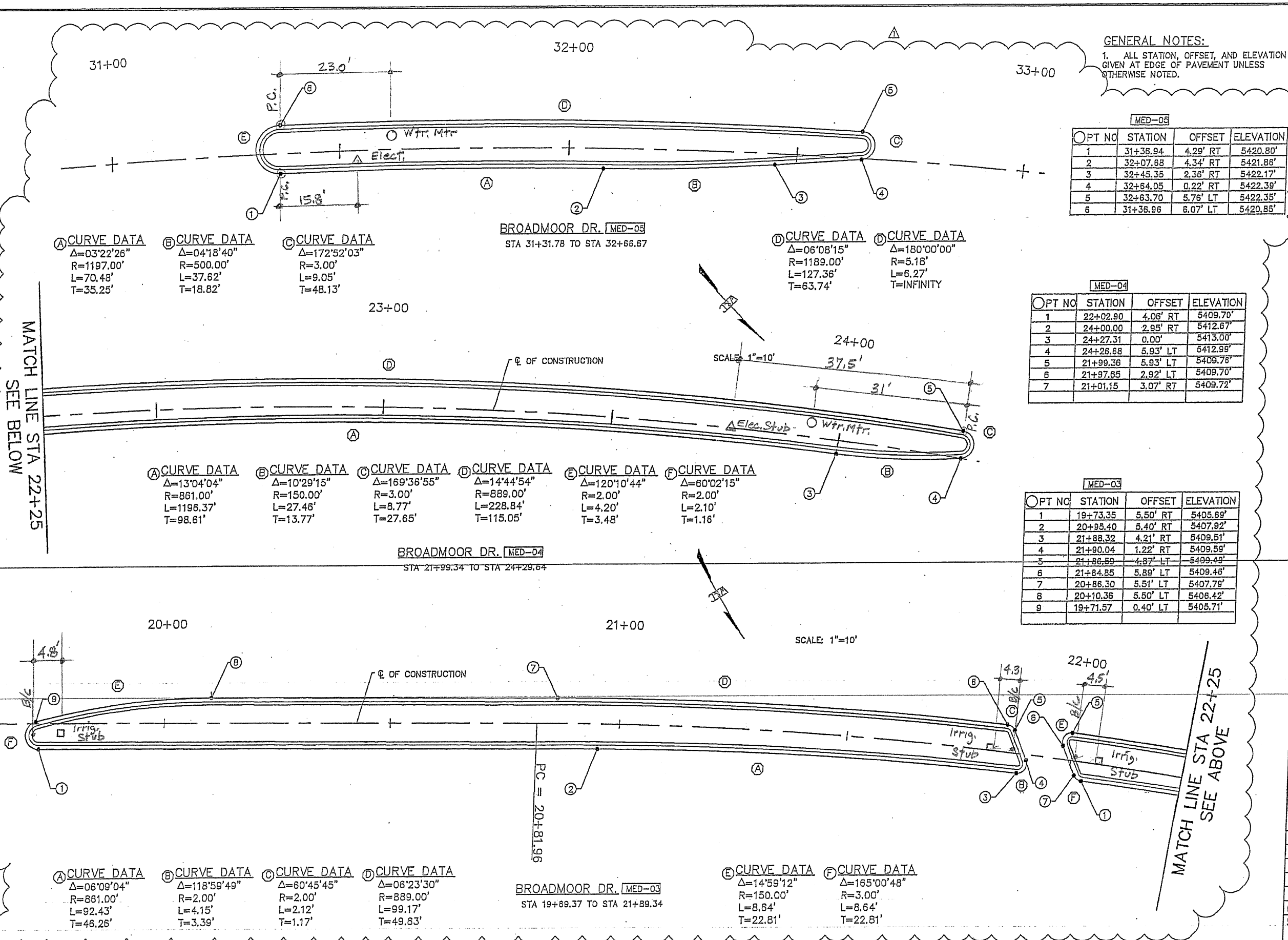
REVISIONS (OR CHANGE NOTICES)			
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS
**BROADMOOR DR
MEDIAN DETAILS**



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



City of Rio Rancho
City of Vision

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BROADMOOR DRIVE / 21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
MEDIAN DETAILS

PROJECT NO. 07600014-34

DESIGNED BY: ESC

DRAWN BY: DAP

CHECKED BY: SJS

DATE: MAY 2010

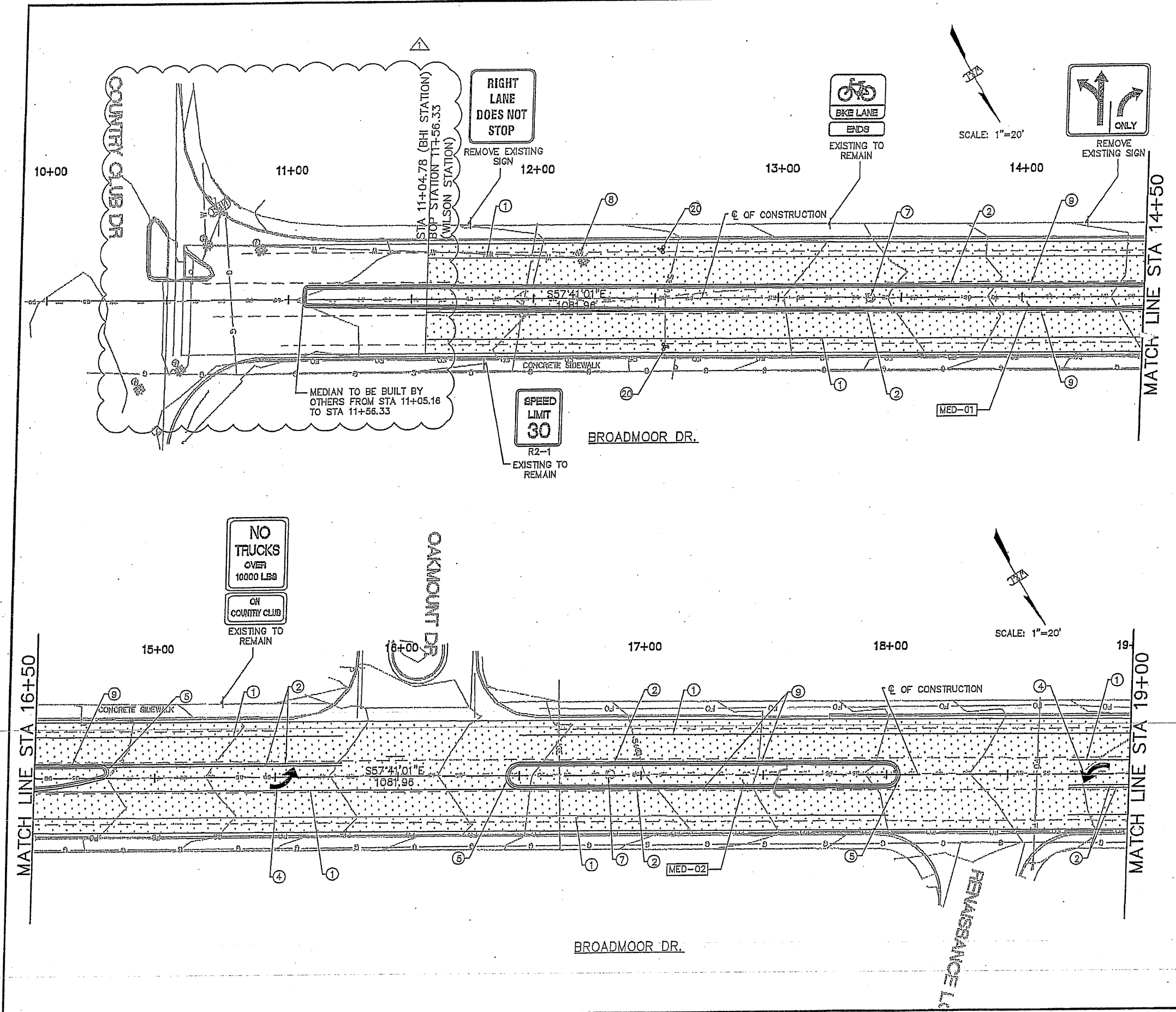
DPW CHK:

SHEET

REVISIONS (OR CHANGE NOTICES)

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29 of 50



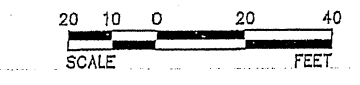
- KEY NOTES:**
- ① 4" SOLID WHITE REFLECTORIZED/THERMOPLASTIC STRIPE
 - ② 4" SOLID YELLOW REFLECTORIZED/THERMOPLASTIC STRIPE
 - ④ LEFT TURN ONLY PAVEMENT MARKER
 - ⑤ SOLID YELLOW REFLECTORIZED/THERMOPLASTIC PAINTED MEDIAN NOSE
 - ⑦ ADJUST MANHOLE RIM PER CORR STD DWG W-4
 - ⑧ ADJUST WATER VALVE COVER PER CORR STD DWG W-4
 - ⑨ BUILD 6" PCC MEDIAN CURB AND GUTTER PER CORR STD DWG CG-01 SEE SHEETS 19 & 20 FOR MEDIAN DETAILS
 - ⑩ BIKE LANE PAVEMENT MARKING

GENERAL NOTES:

- ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
- CONTRACTOR SHALL SUBMIT A STRIPING & SIGNING PLAN TO CORR TRAFFIC SECTION FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

LEGEND:

PROPOSED ROADWAY ASPHALT



11"x17" SCALE:
HORIZ: 1" = 40'

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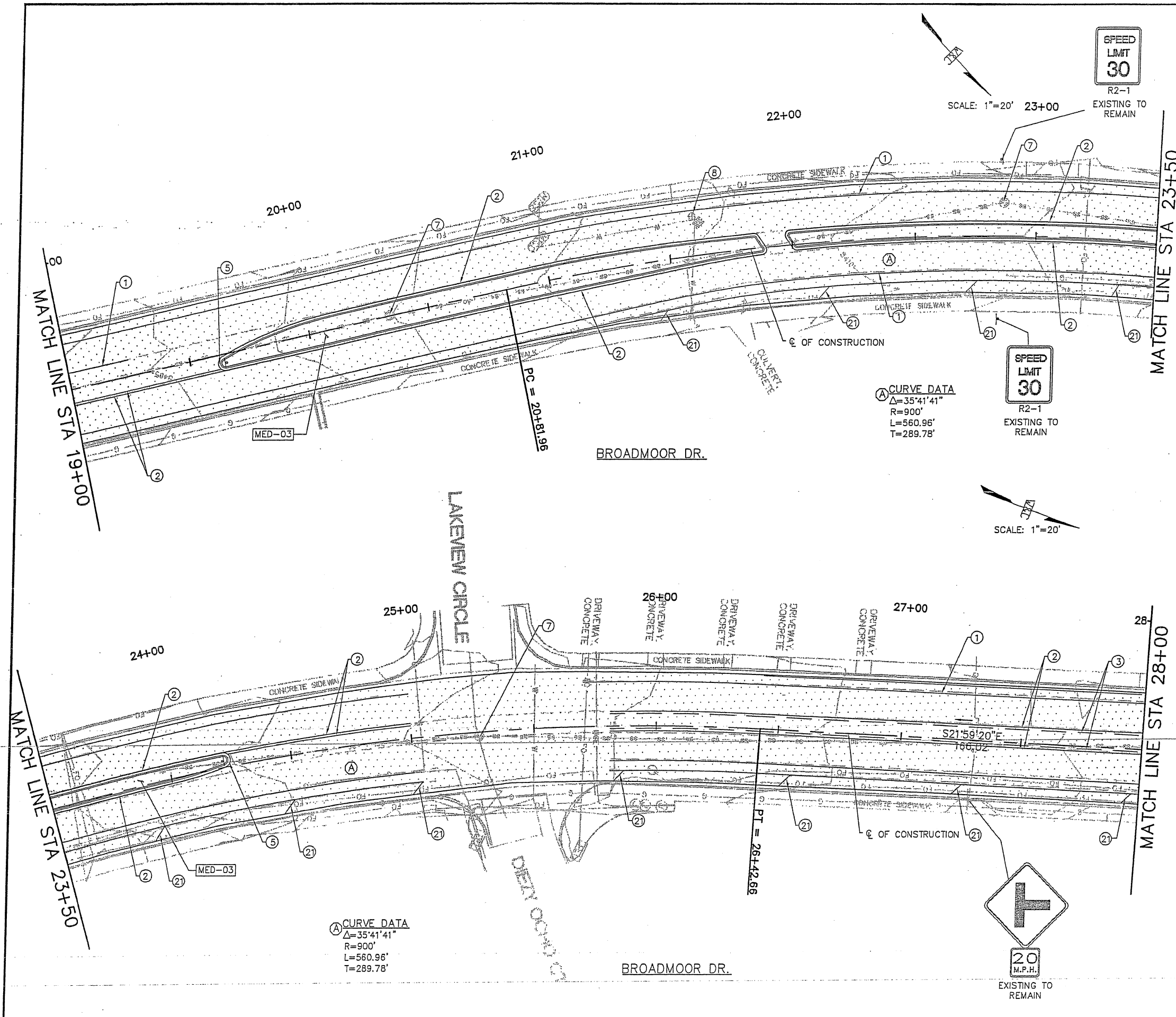
City of Rio Rancho
City of Vision

REVISIONS (OR CHANGE NOTICES)	
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BROADMOOR DRIVE / 21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 10+00 TO STA 19+00
ROADWAY PLAN

PROJECT NO. 07600014-34	
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	31 of 50



KEY NOTES:

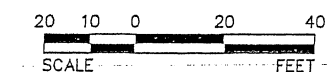
- ① 4" SOLID WHITE REFLECTORIZED/THERMOPLASTIC STRIPE
- ② 4" SOLID YELLOW REFLECTORIZED/THERMOPLASTIC STRIPE
- ③ 4" DASHED YELLOW (10" STRIPE 30' GAP) RETROREFLECTORIZED STRIPE
- ⑤ SOLID YELLOW REFLECTORIZED/THERMOPLASTIC PAINTED MEDIAN NOSE
- ⑦ ADJUST MANHOLE RIM PER CORR STD DWG W-4
- ⑧ ADJUST WATER VALVE COVER PER CORR STD DWG W-4
- ⑨ BUILD 6" PCC MEDIAN CURB AND GUTTER PER CORR STD DWG CG-01 SEE SHEETS 19 & 20 FOR MEDIAN DETAILS
- ⑫ 4" SOLID WHITE @ 45° REFLECTORIZED/THERMOPLASTIC STRIPE

GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. CONTRACTOR SHALL SUBMIT A STRIPING & SIGNING PLAN TO CORR TRAFFIC SECTION FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

LEGEND:

 PROPOSED ROADWAY ASPHALT



11"x17" SCALE:
HORIZ: 1" = 40'



City of Rio Rancho

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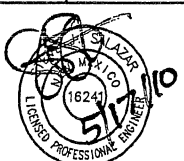
REVISIONS (OR CHANGE NOTICES)

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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
19+50 TO STA 28+50
ROADWAY PLAN

STA



PROJECT NO. 07600014-34

DESIGNED BY: ESC

DRAWN BY: DAP

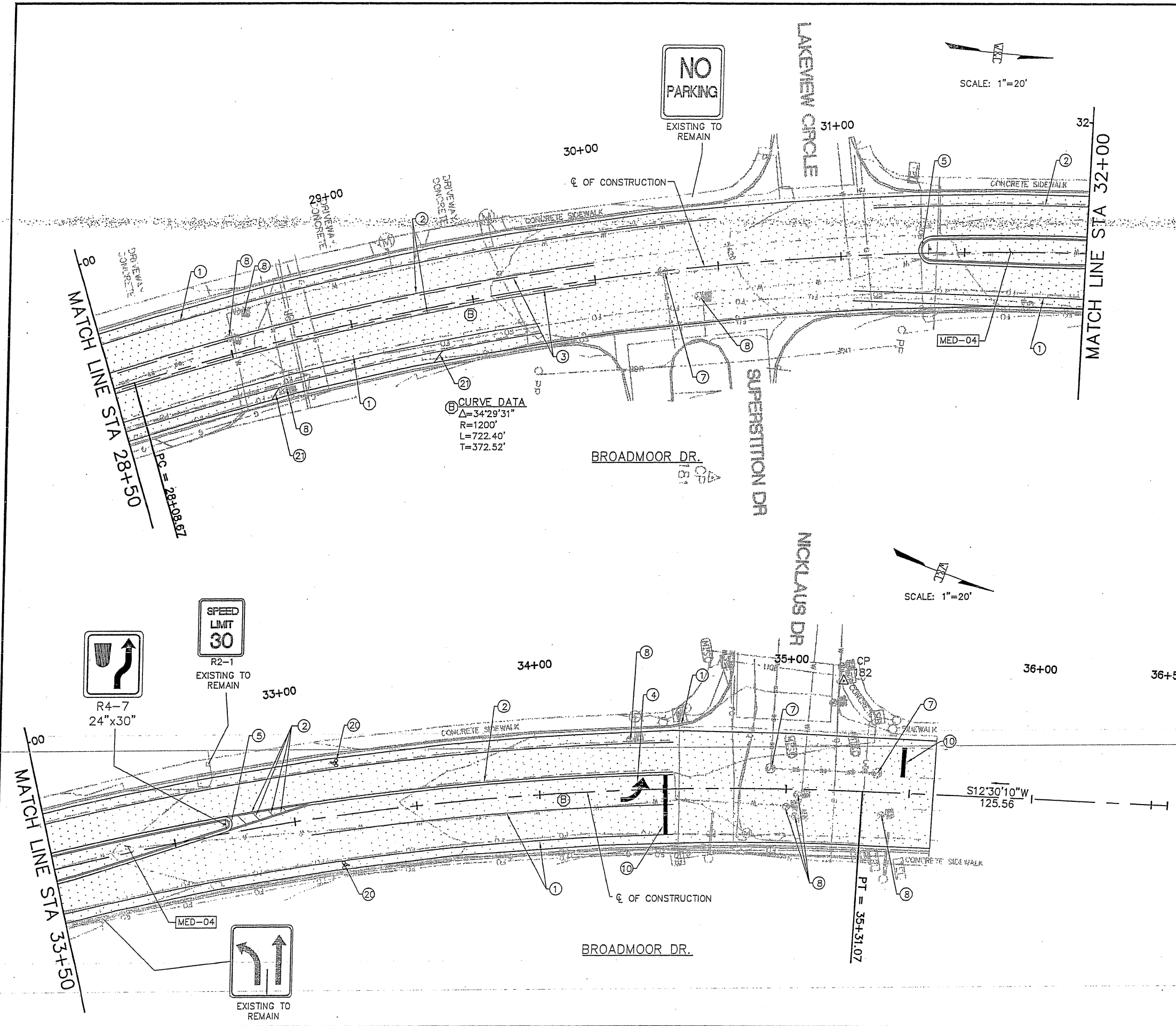
CHECKED BY: SJS

DATE: MAY 2010

DPW CHK:

SHEET

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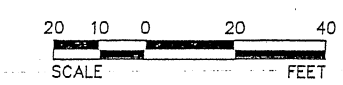
- KEY NOTES:**
- ① 4" SOLID WHITE REFLECTORIZED/ THERMOPLASTIC STRIPE
 - ② 4" SOLID YELLOW REFLECTORIZED/ THERMOPLASTIC STRIPE
 - ③ 4" DASHED YELLOW (10" STRIPE 30' GAP) REFLECTORIZED/ THERMOPLASTIC STRIPE
 - ④ LEFT TURN ONLY PAVEMENT MARKER
 - ⑤ SOLID YELLOW REFLECTORIZED/ THERMOPLASTIC PAINTED MEDIAN NOSE
 - ⑦ ADJUST MANHOLE RIM PER CORR STD DWG W-4
 - ⑧ ADJUST WATER VALVE COVER PER CORR STD DWG W-4
 - ⑩ 24" STOP BAR
 - ⑫ BIKE LANE PAVEMENT MARKING
 - ⑮ 4" SOLID WHITE @ 45° REFLECTORIZED/ THERMOPLASTIC STRIPE

GENERAL NOTES:

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2. CONTRACTOR SHALL SUBMIT A STRIPING & SIGNING PLAN TO CORR TRAFFIC SECTION FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

LEGEND:

[Pattern] PROPOSED ROADWAY ASPHALT



11"x17" SCALE:
HORIZ: 1" = 40'

City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)

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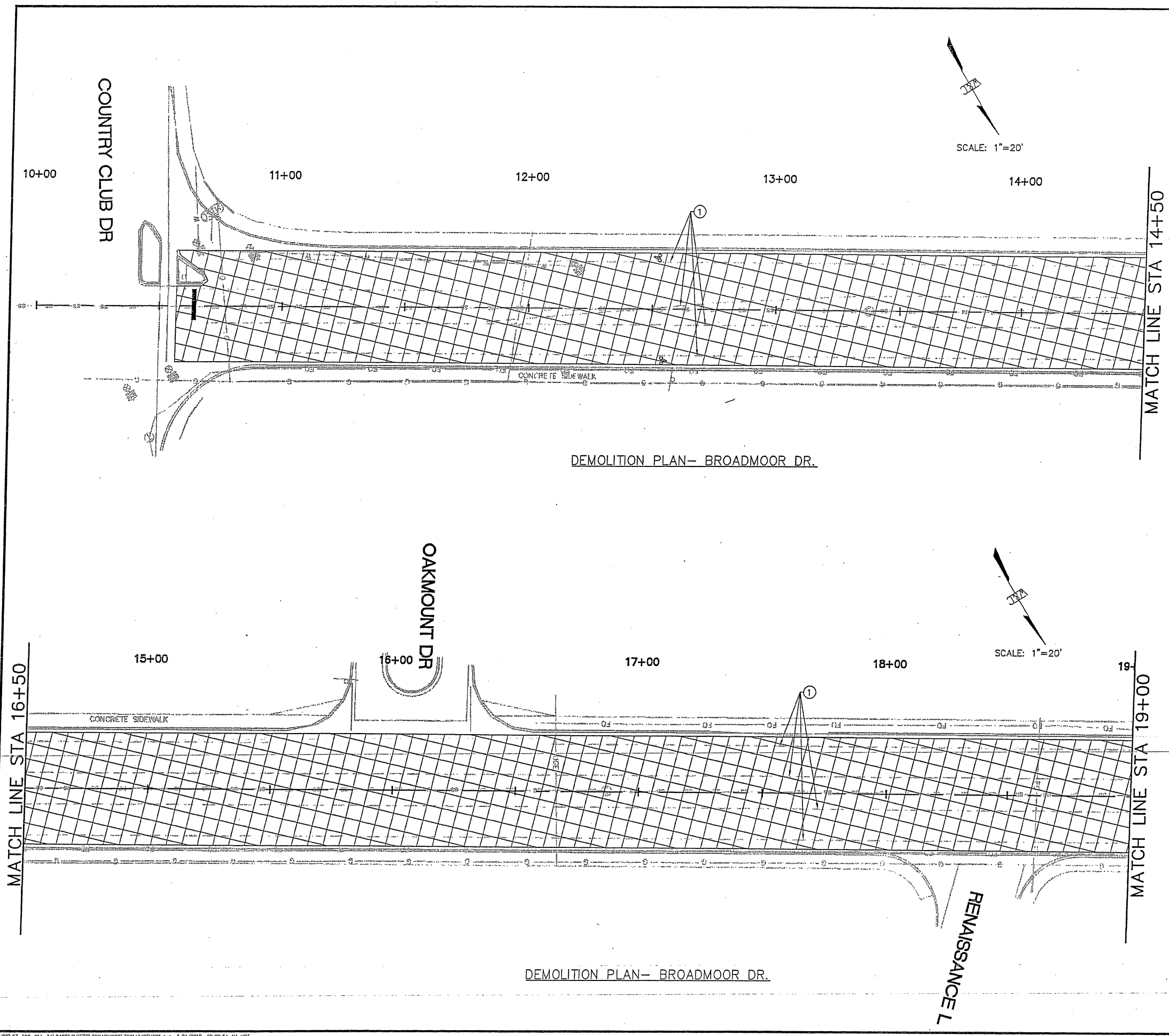
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 29+50 TO STA EOP
ROADWAY PLAN

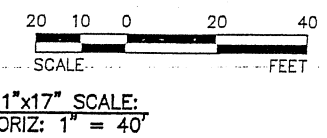
PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	33 of 50



KEY NOTES:
① REMOVE EXISTING ROADWAY STRIPING.

GENERAL NOTES:
1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL ASPHALT SURFACING REMOVAL (1.5" MINUS) SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:
 REMOVE AND DISPOSE EXISTING ASPHALT



City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)	
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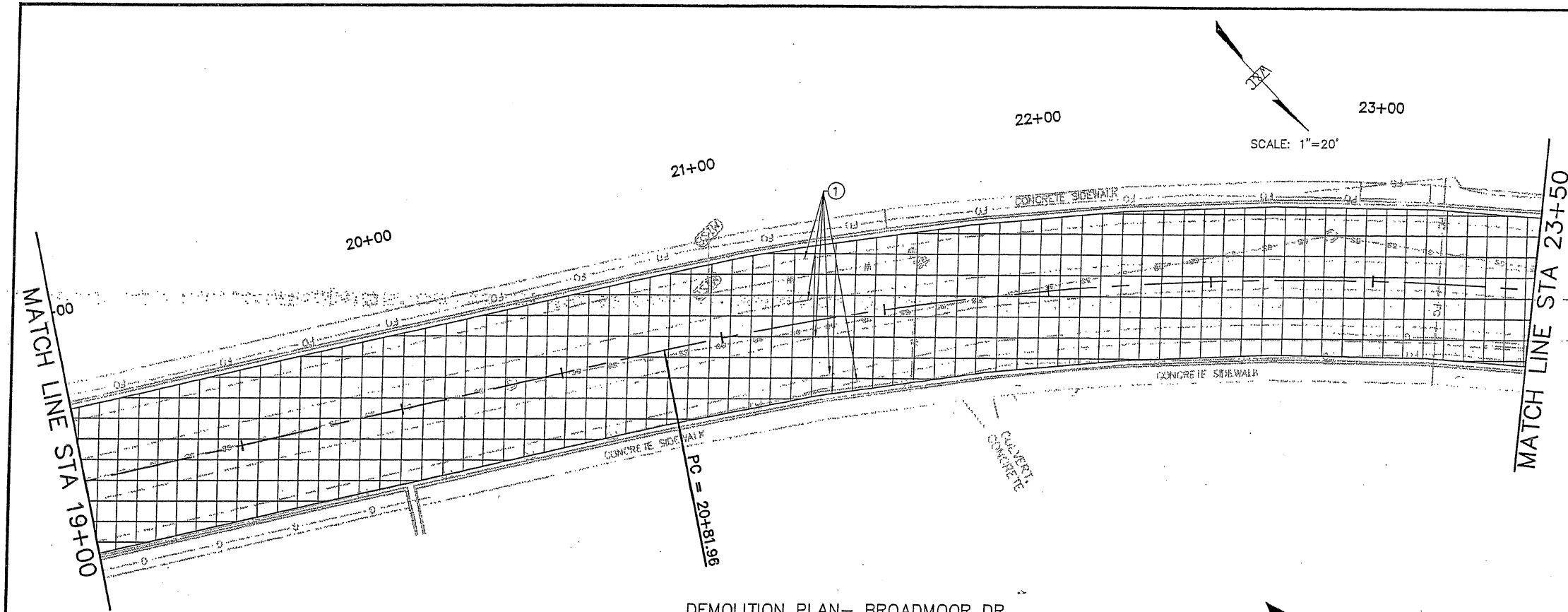
BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
10+00 TO STA 19+00
DEMOLITION PLAN

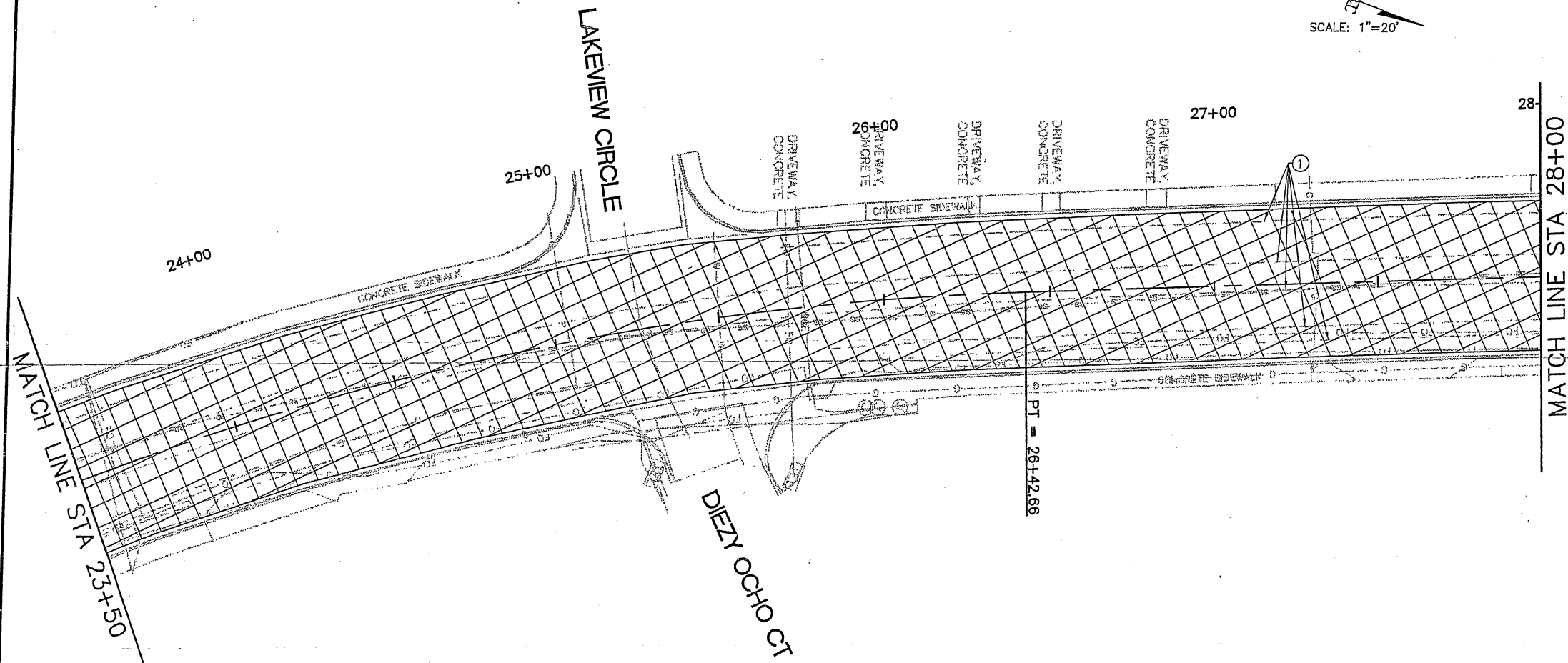
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PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
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34 of 50



DEMOLITION PLAN- BROADMOOR DR.




DEMOLITION PLAN- BROADMOOR DR.

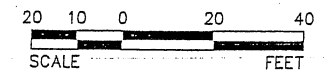
KEY NOTES:
 ① REMOVE EXISTING ROADWAY STRIPING.

GENERAL NOTES:

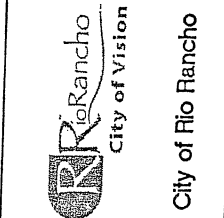
1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL ASPHALT SURFACING REMOVAL (1.5' MINUS) SHALL BE STOCK-PILED WITHIN 5-MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:

 REMOVE AND DISPOSE EXISTING ASPHALT



11"x17" SCALE:
 HORIZ: 1" = 40'

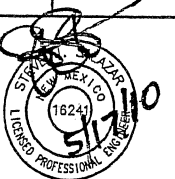


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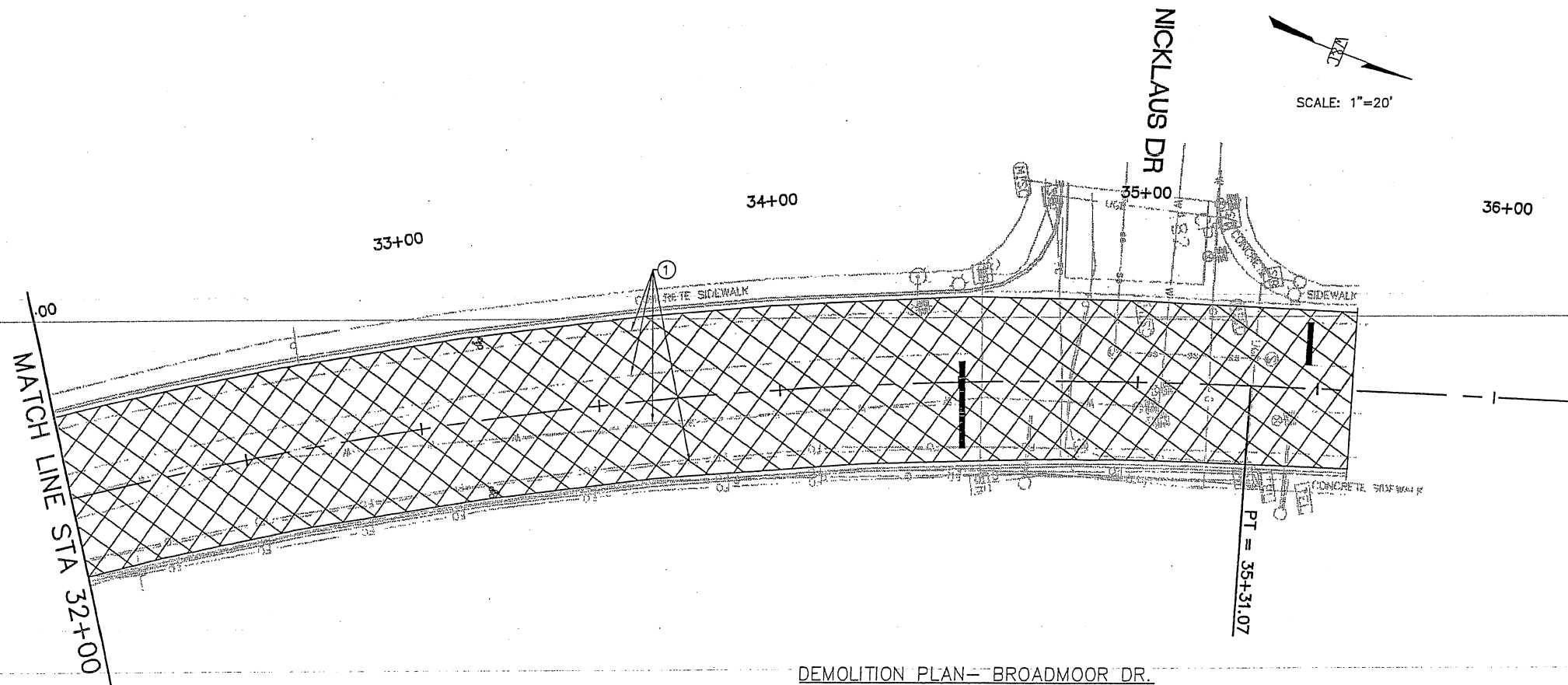
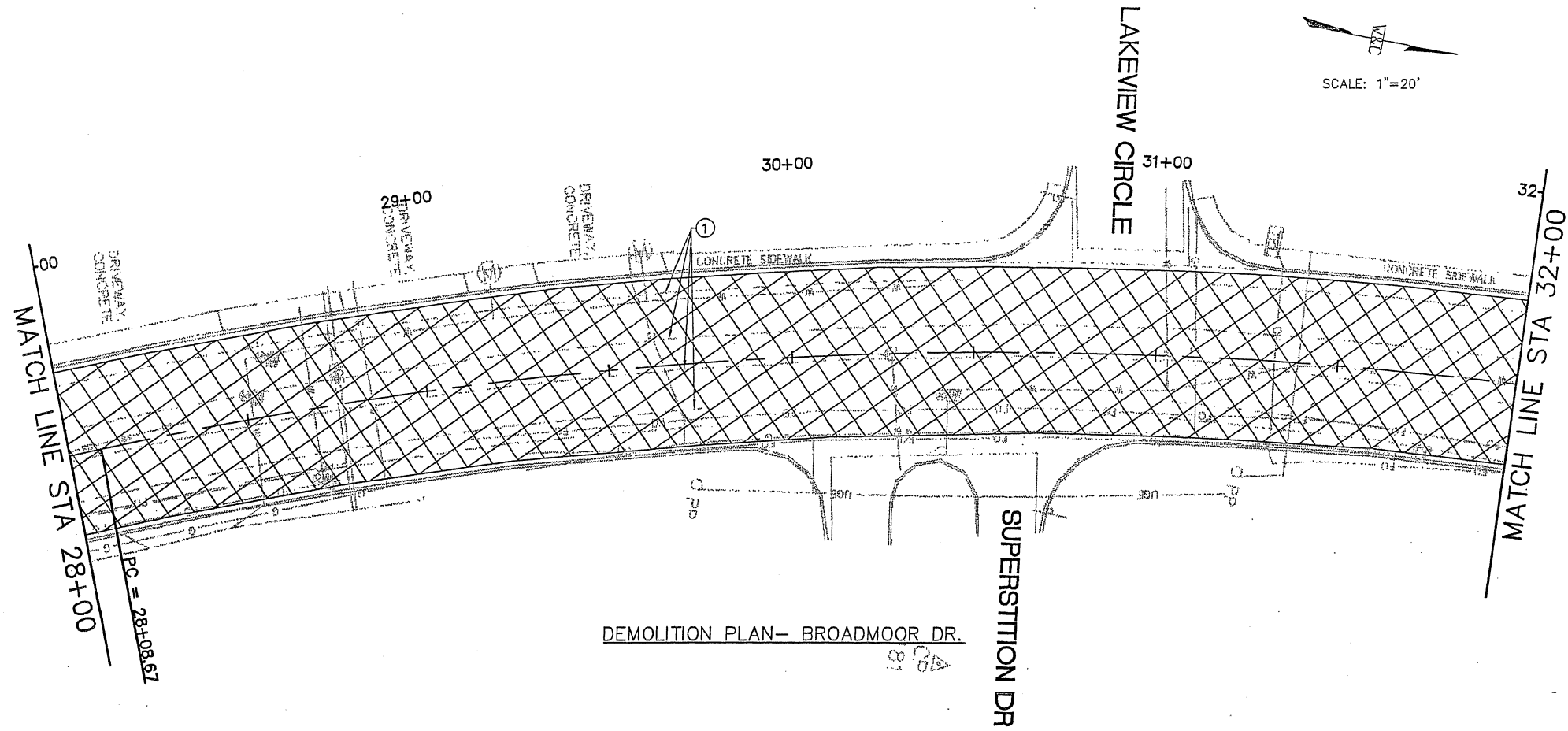
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 www.wilsonco.com

BROADMOOR DRIVE /
 21st AVENUE
 ROADWAY IMPROVEMENTS

BROADMOOR DR
 19+00 TO STA 28+00
 DEMOLITION PLAN



PROJECT NO. 07600014-34
 DESIGNED BY: ESC
 DRAWN BY: DAP
 CHECKED BY: SJS
 DATE: MAY 2010
 DPW CHK:
 SHEET

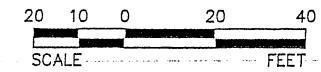


KEY NOTES:
 ⓪ REMOVE EXISTING ROADWAY STRIPING.

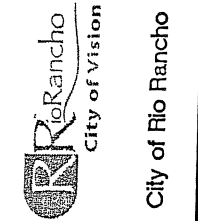
GENERAL NOTES:

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3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

LEGEND:
 REMOVE AND DISPOSE EXISTING ASPHALT



11"x17" SCALE:
 HORIZ: 1" = 40'

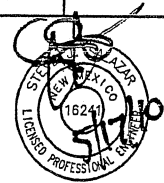


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REVISIONS (OR CHANGE NOTICES)

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BROADMOOR DRIVE /
 21st AVENUE
 ROADWAY IMPROVEMENTS
 BROADMOOR DR
 STA 28+00 TO STA EOP
 DEMOLITION PLAN

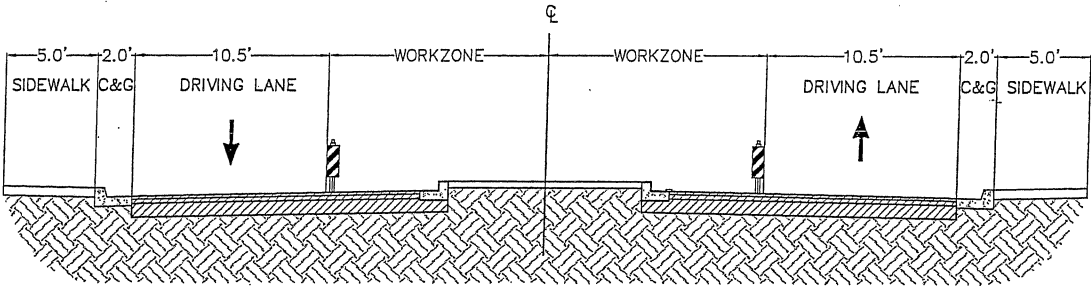


PROJECT NO. 07600014-34
 DESIGNED BY: ESC
 DRAWN BY: DAP
 CHECKED BY: SJS
 DATE: MAY 2010
 DPW CHK:
 SHEET

SUGGESTED
SEQUENCE OF CONSTRUCTION

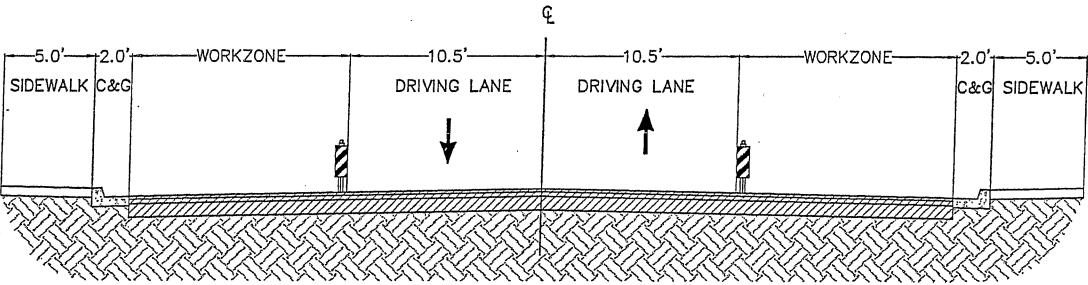
PHASE 1:
CLOSE OUTSIDE DRIVING LANES. REDUCE SPEED TO 25MPH.
SHIFT TRAFFIC TO INSIDE LANES. PROVIDING A MINIMUM
OF 10.5' DRIVING LANES. THEN BUILD OUTSIDE DRIVING
LANES. EXISTING CURB AND GUTTER TO REMAIN IN PLACE.

PHASE 2:
SHIFT TRAFFIC TO COMPLETED OUTSIDE DRIVING LANES.
BUILD MEDIAN CURB AND GUTTER AND REST OF NEW
ROADWAY SURFACE.



CONSTRUCTION PHASE 2 – BROADMOOR DR.

SCALE : 1" = 5'



CONSTRUCTION PHASE 1 – BROADMOOR DR.

SCALE : 1" = 5'

ITEM 702810 - TRAFFIC CONTROL DEVICES FOR CONSTRUCTION - LUMP SUM**

DESCRIPTION	UNITS	QUANTITY
CONSTRUCTION SIGNING	SQ. FT	325
STEEL POSTS AND BASE POSTS	LF	370
PROJECT SIGNS	LF	5
PORTABLE SIGN SUPPORT	EACH	2
BARRICADE, TYPE III - 8 FT	EACH	8
VERTICAL PANEL, TYPE BACK TO BACK	EACH	210
CHANNELIZATION DEVICES TYPE DRUM	EACH	116
REMOVAL OF PAVEMENT STRIPE	LF	6250

**For Contractor Information Only. Quantities based on Phase 2



City of Rio Rancho

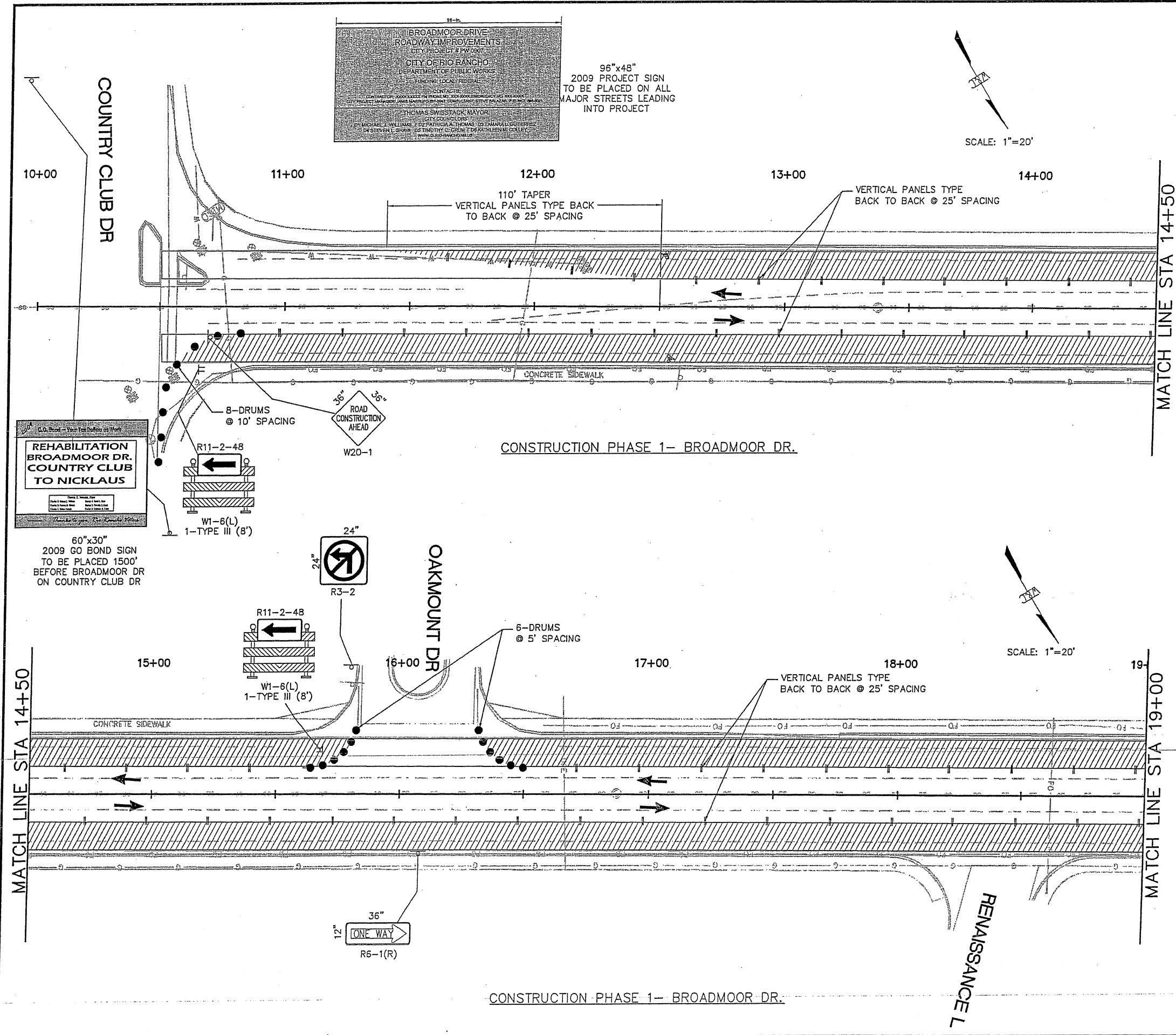
WILSON & COMPANY
2600 AMERICAN RD. SE, STE 100
RIO RANCHO, NEW MEXICO 87124
PH (505) 898-8921
FAX (505) 898-8901
www.wilsonco.com

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
CONSTRUCTION PHASING



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



GENERAL NOTES:

1. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS DEPT.
2. ALL MILLED ASPHALT SURFACING REMOVAL SHALL BE STOCK PILED WITHIN 6 MILE RADIUS FOR PROJECT LOCATION. PROJECT MANAGER WILL PROVIDE LOCATION.
3. ONLY REMOVE ASPHALT WITHIN CURB AND GUTTER LIMITS. NO CONCRETE WORK TO BE DONE UNLESS OTHERWISE NOTED.

SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 1:
CLOSE OUTSIDE DRIVING LANES. REDUCE SPEED TO 25MPH, SHIFT TRAFFIC TO INSIDE LANES. PROVIDING A MINIMUM OF 10.5' DRIVING LANES. THEN BUILD OUTSIDE DRIVING LANES. EXISTING CURB AND GUTTER TO REMAIN IN PLACE.

LEGEND:

WORK ZONE PHASE 1

City of Rio Rancho

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

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RIO RANCHO, NEW MEXICO 87124
TEL (505) 888-8021
FAX (505) 888-8501
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 10+00 TO STA 19+00
CONSTRUCTION PHASE 1

PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	

38 of 50

GENERAL NOTES:

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LEGEND:

 WORKZONE PHASE 1



City of Rio Rancho

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REVISIONS (OR CHANGE NOTICES)

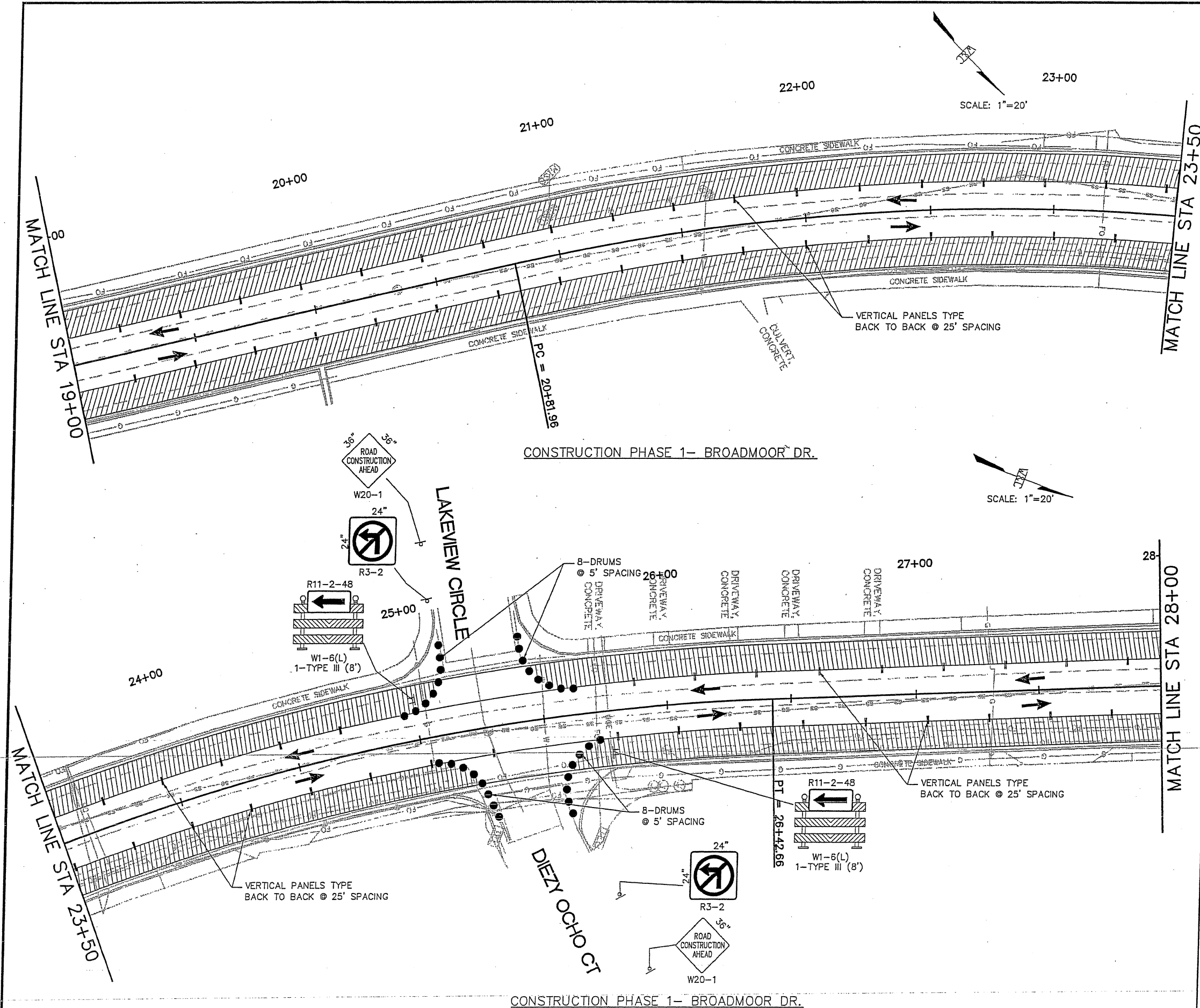
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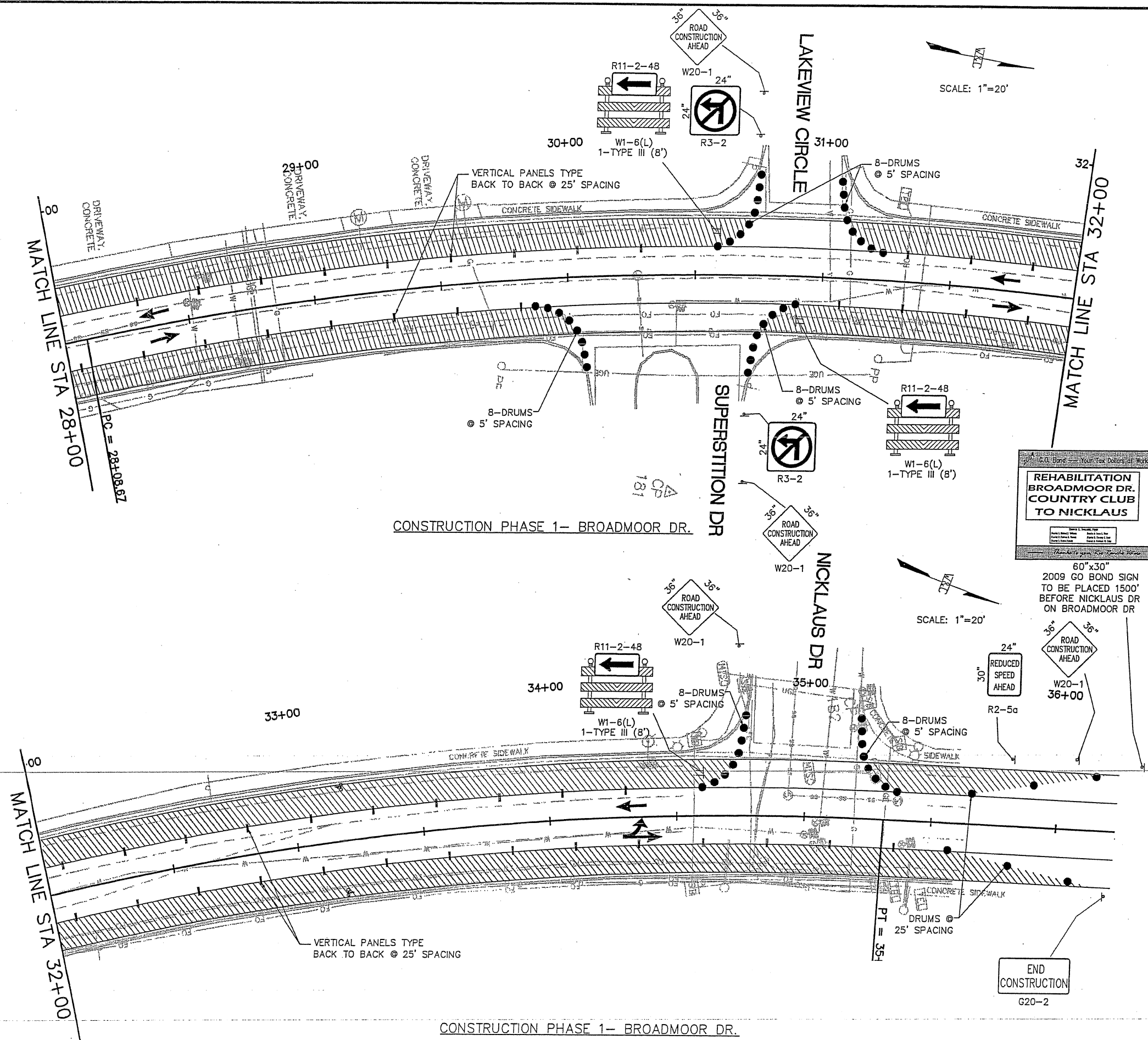
BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 19+00 TO STA 28+00
CONSTRUCTION PHASE 1



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET





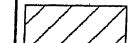
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SUGGESTED
SEQUENCE OF CONSTRUCTION

PHASE 1:
CLOSE OUTSIDE DRIVING LANES. REDUCE
SPEED TO 25MPH, SHIFT TRAFFIC TO INSIDE
LANES. PROVIDING A MINIMUM OF 10.5'
DRIVING LANES. THEN BUILD OUTSIDE DRIVING
LANES. EXISTING CURB AND GUTTER TO
REMAIN IN PLACE.

LEGEND:



**REHABILITATION
BROADMOOR DI
COUNTRY CLUB
TO NICKLAUS**

2009 GO BOND SIGN
TO BE PLACED 1500'
BEFORE NICKLAUS DR
ON BROADMOOR DR

**BROADMOOR DRIVE
ROADWAY IMPROVEMENTS
CITY PROJECT # PW 1907
CITY OF RIO RANCHO
DEPARTMENT OF PUBLIC WORKS
FUNDING: CITY / FEDERAL**

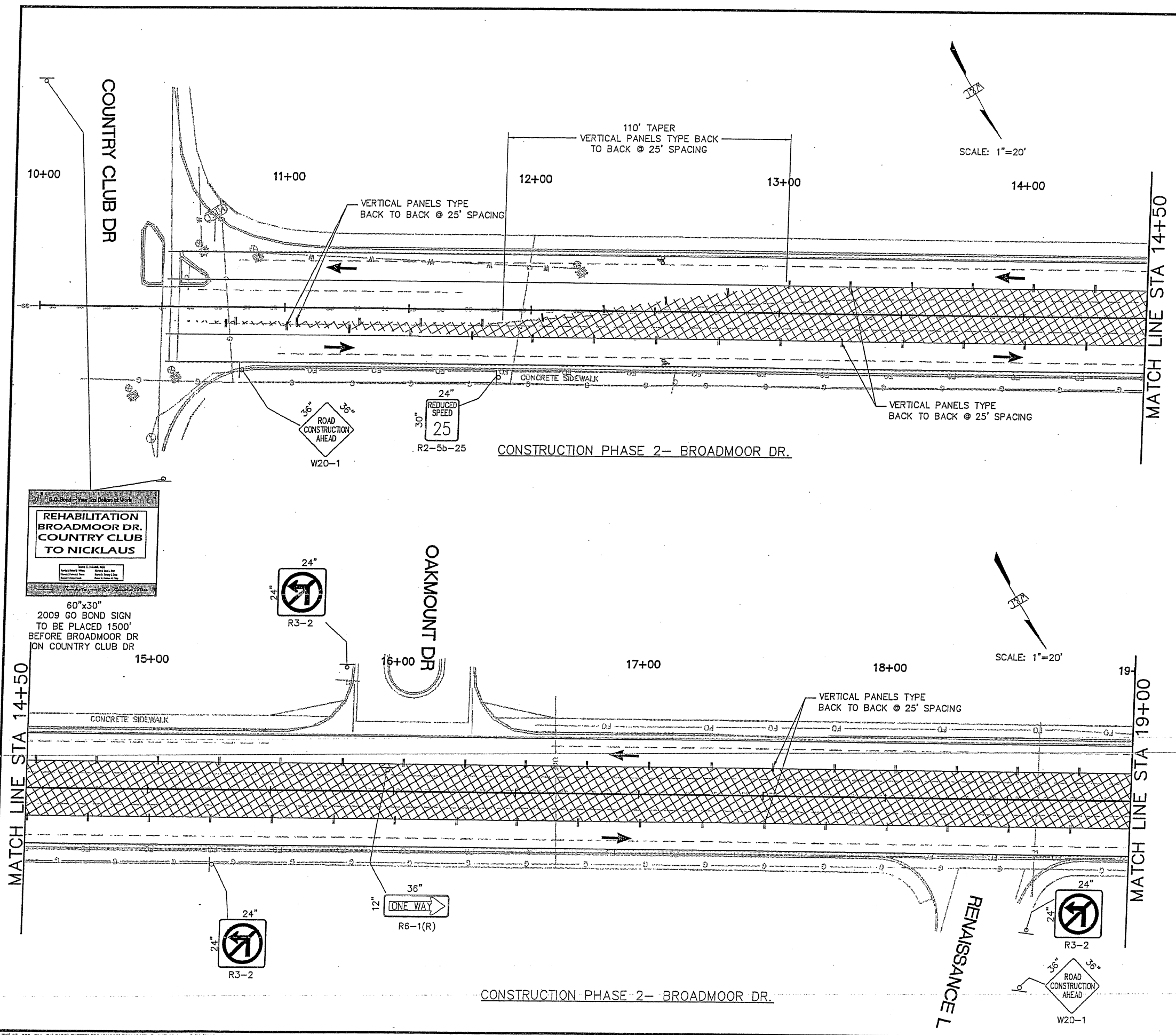
THOMAS SWISSTACK, MAYOR
CITY COUNCILORS
D1 MICHAEL J. WILLIAMS D2 PATRICIA A. THOMAS D3 TANIA WAL GUTIER
D4 STEVEN L. SHAW D5 TIMOTHY C. GRUM D6 KATHLEEN M. COLLEY
WWW.CLRD-RANCH.COM

BROADMOOR DRIVE /
21st AVENUE
BROADWAY IMPROVEMENTS

BROADMOOR DR
STA 28+00 TO STA EOP
CONSTRUCTION PHASE 1



PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	
SHEET	



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SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 2:
SHIFT TRAFFIC TO COMPLETED OUTSIDE DRIVING LANES. BUILD MEDIAN CURB AND GUTTER AND REST OF NEW ROADWAY SURFACE.

LEGEND:

WORK ZONE PHASE 2

City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)

NO.	DESCRIPTION	DATE	BY
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WILSON & COMPANY

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BROADMOOR DRIVE / 21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 10+00 TO STA 19+00
CONSTRUCTION PHASE 2

PROJECT NO. 07600014-34

DESIGNED BY: ESC

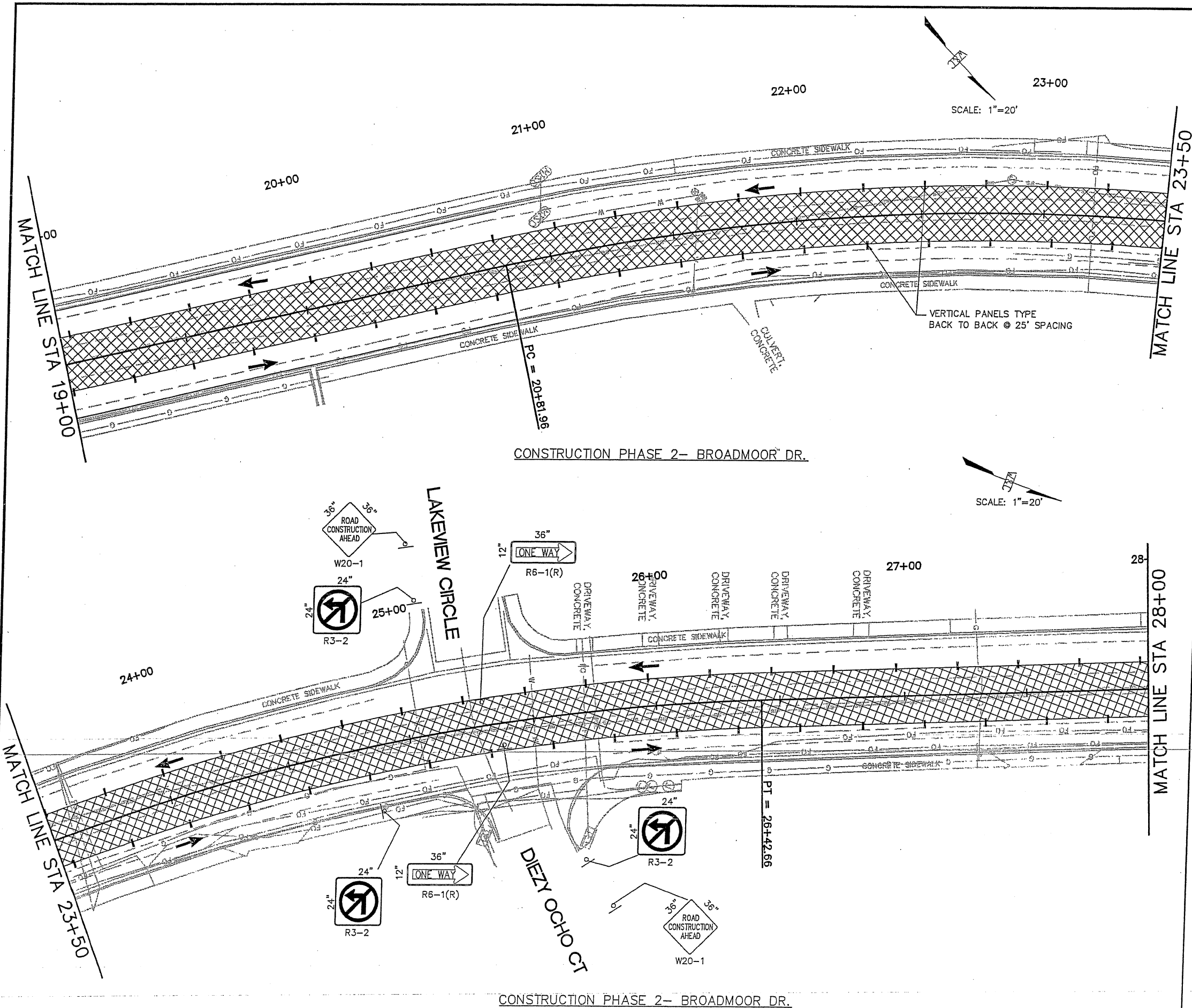
DRAWN BY: DAP

CHECKED BY: SJS

DATE: MAY 2010

DPW CHK: SHEET

41 of 50



GENERAL NOTES:

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LEGEND:

WORK ZONE PHASE 2



City of Rio Rancho

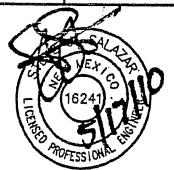
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REVISIONS (OR CHANGE NOTICES)

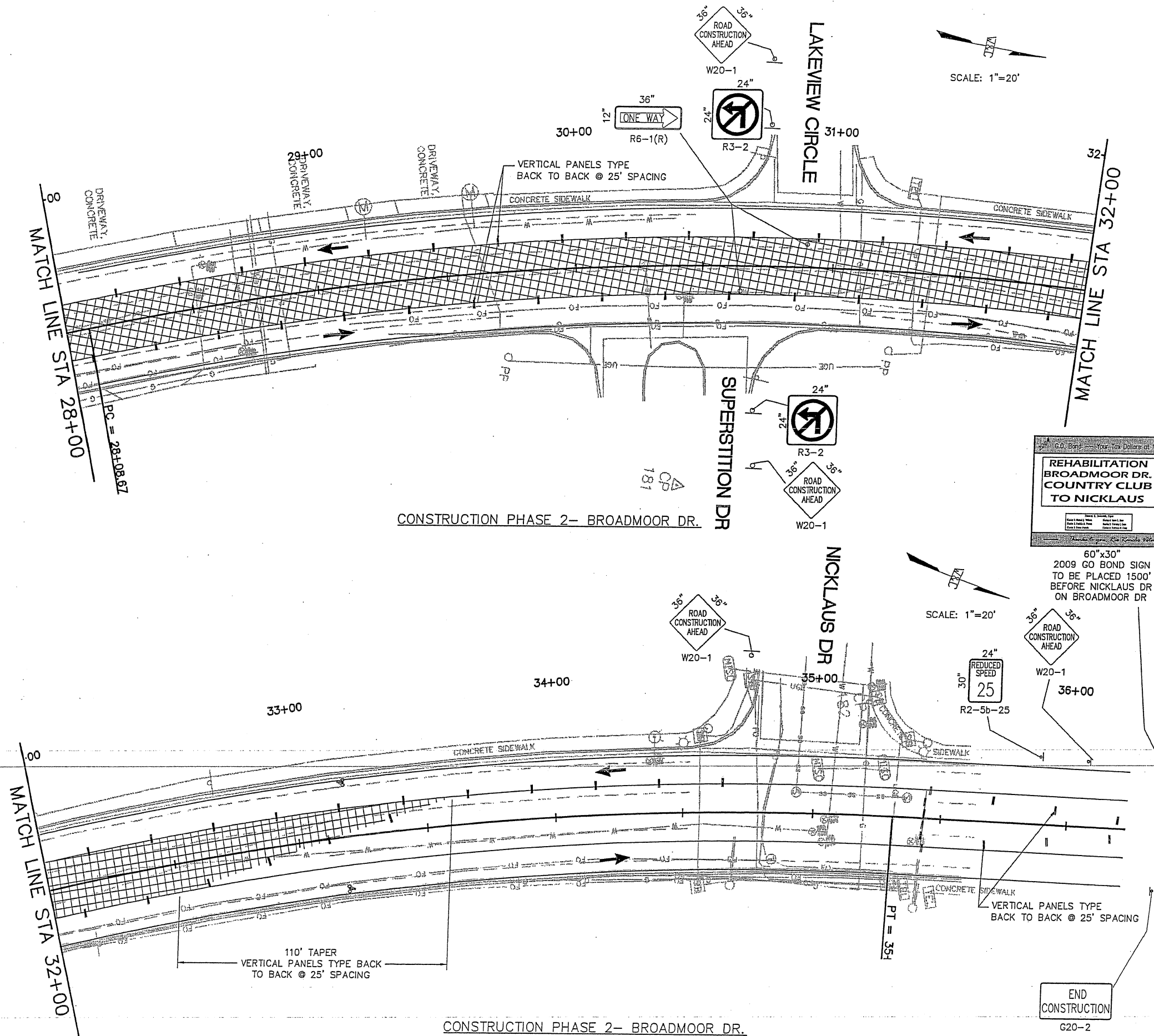
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 19+00 TO STA 28+00
CONSTRUCTION PHASE 2



PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
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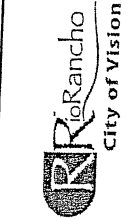


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PHASE 2:
SHIFT TRAFFIC TO COMPLETED OUTSIDE DRIVING LANES. BUILD MEDIAN CURB AND GUTTER AND REST OF NEW ROADWAY SURFACE.



City of Rio Rancho

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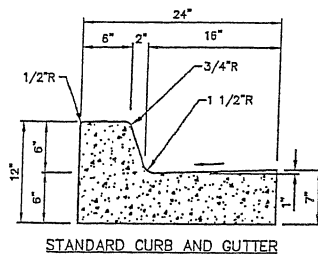
BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

BROADMOOR DR
STA 28+00 TO STA EOP
CONSTRUCTION PHASE 2

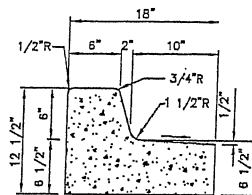


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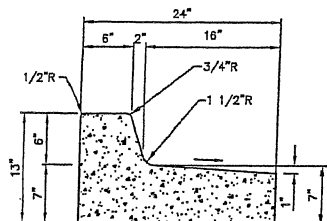
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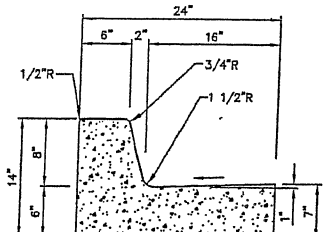
STANDARD CURB AND GUTTER



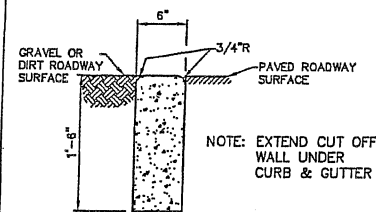
MEDIAN CURB AND GUTTER



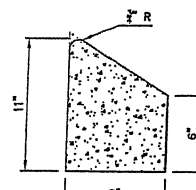
SPILL CURB AND GUTTER



8" CURB AND GUTTER
FOR COLLECTOR AND ARTERIAL STREETS ONLY.
SEE NOTE 7.



CUTOFF WALL
USE FOR TRANSITION TO
UNPAVED ROAD, SEE NOTE 7.



ROUND-ABOUT CURB

DATE MODIFIED:



City of Rio Rancho
Department of Public Works

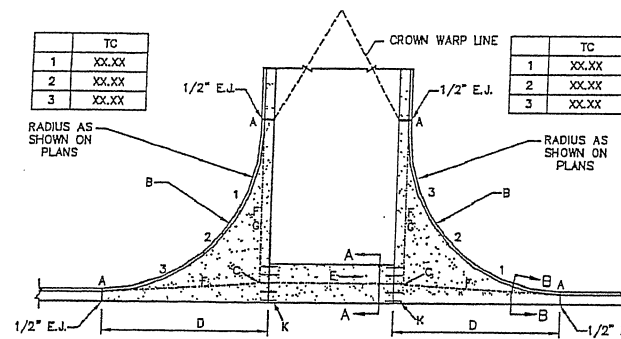
CURB AND GUTTER

DWG. NO. CG-01

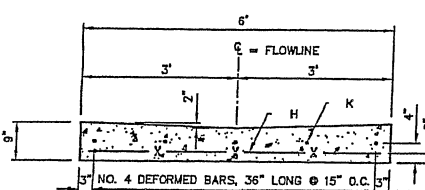
OCT 2, 2008

GENERAL NOTES:

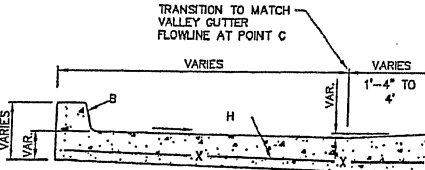
1. ANY DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR PRIOR APPROVAL.
2. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY THE DEPT. OF PUBLIC WORKS.
3. SUBGRADE SHALL BE COMPACTED TO 95% ASTM D 1557, MIN.
4. CURB AND GUTTER SHALL BE PORTLAND CEMENT CONCRETE. PORTLAND CEMENT CONCRETE SHALL BE 3000 PSI @ 28 DAYS W/ CLASS F FLY ASH AND 7% +/- 2% AIR ENTRAINMENT (MAX. 20% FLY ASH BY WEIGHT).
5. FOR CONC. CURB AND GUTTER CONSTRUCT TRANSVERSE JOINTS AS FOLLOWS:
-TOOLED CONSTRUCTION JOINTS AT 5' INTERVALS
-1/2" PRE-MOLDED BITUMINOUS EXPANSION JOINTS AT 15' INTERVALS
-SEALED EXPANSION JOINTS AT 90' INTERVALS.
6. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
7. 8" CURB AND GUTTER AND CUTOFF WALL IS NOT FOR USE IN NEW RESIDENTIAL DEVELOPMENT. USE MUST BE PRE-APPROVED BY CITY ENGINEER.
8. ASPHALT PLACEMENT SHALL BE EVEN WITH THE TOP OF GUTTER, BUT IN NO CASE SHALL IT EXCEED 1/2" HIGHER. ASPHALT PLACED LOWER THAN TOP OF GUTTER SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.



PLAN



SECTION A-A



SECTION B-B

DATE MODIFIED:

CONSTRUCTION NOTES

- A. END OF CURB RETURN
- B. CONSTRUCT CURB RAMP WHERE SHOWN ON PLANS. ADJUST CURB HEIGHT TO MATCH RAMP CONFIGURATION.
- C. INTERSECTION OF FLOWLINES.
- D. VALLEY GUTTER FLEET AREAS AND CURB SHALL BE CONSTRUCTED MONOLITHICALLY.
- E. DIRECTION OF FLOW.
- F. FLOWLINE.
- G. PROJECTED GUTTER FLOWLINE.
- H. 6x6-6/8 WELDED WIRE FABRIC IS THE PREFERRED REINFORCEMENT FOR VALLEY GUTTER AND FLEET AREAS. FIBER REINFORCED CONCRETE MAY BE PERMITTED IN LIEU OF WIRE FABRIC WITH PRIOR APPROVAL OF CITY ENGINEER.
- K. NO. 4 DEFORMED BARS, 36" LONG @ 15" O.C. WITH 18" EMBEDMENT LENGTH.

GENERAL NOTES

1. SEE PLANS FOR FINISH GRADE ELEVATIONS (TOP OF CURB) FOR END OF CURB RETURNS. AT QUARTERPOINTS ALONG CURB RETURN (IN THE CLOCKWISE DIRECTION) AND FLOWLINE ELEVATIONS AT THE INTERSECTIONS OF PROJECTED FLOWLINES.
2. VALLEY GUTTER CONSTRUCTION SHALL PROVIDE A SMOOTH AND WELL DEFINED FLOW PATH ACROSS THE INTERSECTION. ABRUPT CHANGES IN GRADE OR CROSS SECTION WILL NOT BE PERMITTED.
3. VALLEY GUTTER, INCLUDING FLEET AREAS, SHALL BE REINFORCED WITH 6x6-6/8 WELDED WIRE FABRIC OR APPROVED.
4. FOR NEW CONSTRUCTION, THE VALLEY GUTTER SHALL BE CONSTRUCTED PRIOR TO ADJACENT PAVEMENT.
5. PRIOR TO CONSTRUCTION OF NEW VALLEY GUTTER ON EXISTING STREETS, PAVEMENT REMOVALS AS SHOWN ON PLANS, SHALL BE COMPLETED.
6. JOINT DETAIL SHALL BE SUBMITTED BY ENGINEER OF RECORD FOR APPROVAL BEFORE PLACEMENT OF VALLEY GUTTER.
7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONC. 3000 PSI @ 28 DAYS W/ CLASS F FLY ASH AND 7% +/- 2% AIR ENTRAINMENT (MAX. 20% FLY ASH BY WEIGHT)

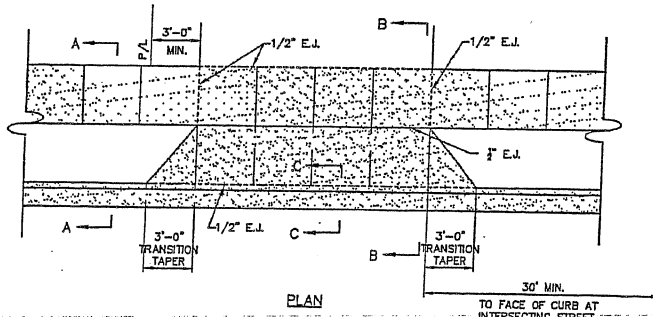


City of Rio Rancho
Department of Public Works

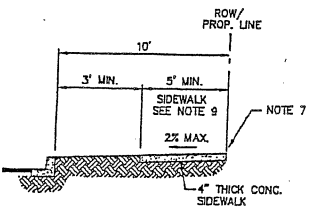
VALLEY GUTTER AT
INTERSECTION / INVERTED CROWN

DWG. NO. VG-01

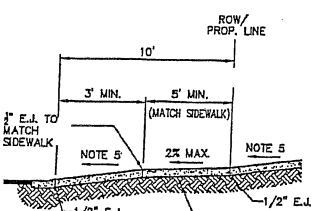
OCT 2, 2008



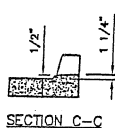
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

DATE MODIFIED:



City of Rio Rancho
Department of Public Works

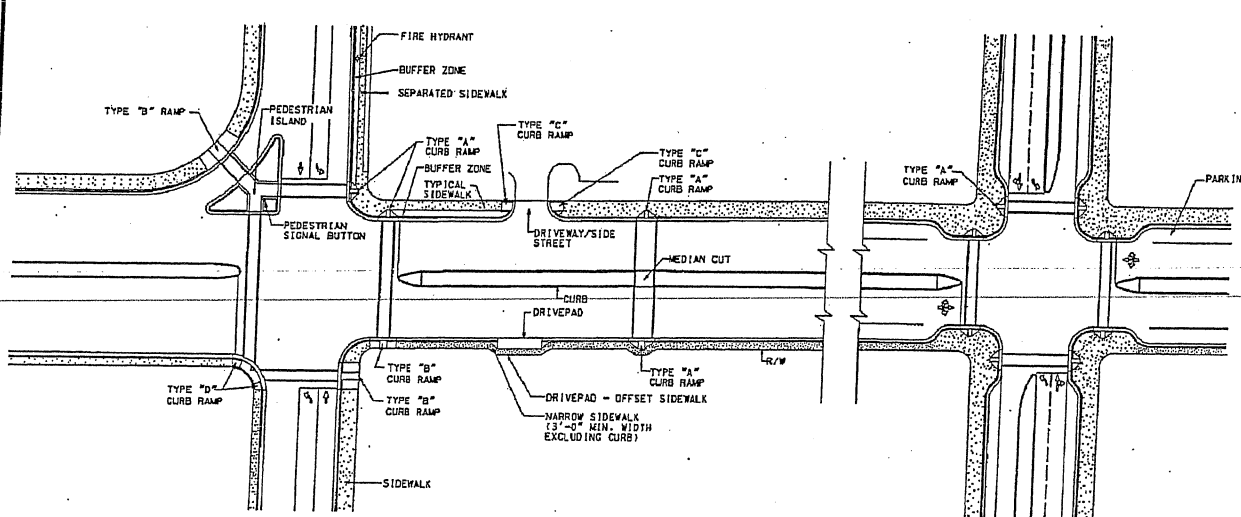
SIDEWALK AND DRIVEWAY TRANSITION
(RESIDENTIAL)

DWG. NO. DW-01

OCT 2, 2008

GENERAL NOTES:

1. ANY DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR PRIOR APPROVAL.
2. ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY THE DEPT. OF PUBLIC WORKS.
3. WITHIN LIMITS OF RIGHT-OF-WAY, SIDEWALK AND DRIVEWAY SHALL BE PORTLAND CEMENT CONCRETE PLACED ON 6" PREPARED SUBGRADE. SUBGRADE SHALL BE COMPACTED TO 95% ASTM D 1557, MIN. PORTLAND CEMENT CONCRETE SHALL BE 3000 PSI @ 28 DAYS W/ CLASS F FLY ASH AND 7% +/- 2% AIR ENTRAINMENT.
4. ASPHALT DRIVEWAY WILL NOT BE PERMITTED WITHIN RIGHT-OF-WAY.
5. 14% MAX. SLOPE FOR RESIDENTIAL DRIVEWAYS.
6. FOR CONC. SIDEWALK CONSTRUCT TRANSVERSE JOINTS AS FOLLOWS:
-TOOLED CONSTRUCTION JOINTS AT 5' INTERVALS
-1/2" PRE-MOLDED BITUMINOUS EXPANSION JOINTS AT 15' INTERVALS
-SEALED EXPANSION JOINTS AT 90' INTERVALS.
7. SIDEWALK SETBACK IS REQUIRED WHERE ROW/PROPERTY WALL EXISTS OR IS PLANNED. REFER TO DWG. NO. TS-01 FOR SETBACK REQUIREMENTS.
8. SIDEWALK SHALL NOT BE TAPERED OR WARPED AT DRIVEWAY APPROACH.
9. THE MINIMUM SIDEWALK WITHIN PUBLIC RIGHT-OF-WAY IS:
5' WIDE ON RES. & STD. COLLECTOR STREETS NOT ADJACENT TO COMMERCIAL PROPERTIES
6' WIDE ON ARTERIAL STREETS AND STREETS ADJACENT TO COMMERCIAL PROPERTIES

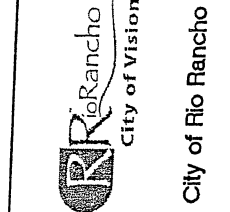


NOTE TO CONTRACTOR

THIS SHEET MAY NOT CONTAIN AN ALL INCLUSIVE LIST OF DETAILS. OTHER CITY OF RIO RANCHO STANDARD DETAILS MAY APPLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHICH STANDARD DETAILS MAY APPLY.

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NEW MEXICO DEPARTMENT
OF TRANSPORTATION
PEDESTRIAN ACCESS DETAILS
TYPICAL CURB RAMP LOCATIONS
APPROVAL
RECOMMENDED
DATE
N.T.S. PAO-001 01/01/04 Sheet 1 of 10



City of Rio Rancho

NO.	DATE	DESCRIPTION
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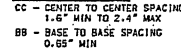
WILSON & COMPANY
2600 AMERICAN RD. SE. STE. 100
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www.wilsonco.com

BROADMOOR DRIVE /
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ROADWAY IMPROVEMENTS

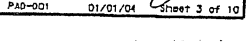
ROAD DETAILS



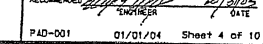
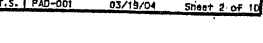
PROJECT NO. 07600014-34
DESIGNED BY: ESC
DRAWN BY: DAP
CHECKED BY: SJS
DATE: MAY 2010
DPW CHK:
SHEET



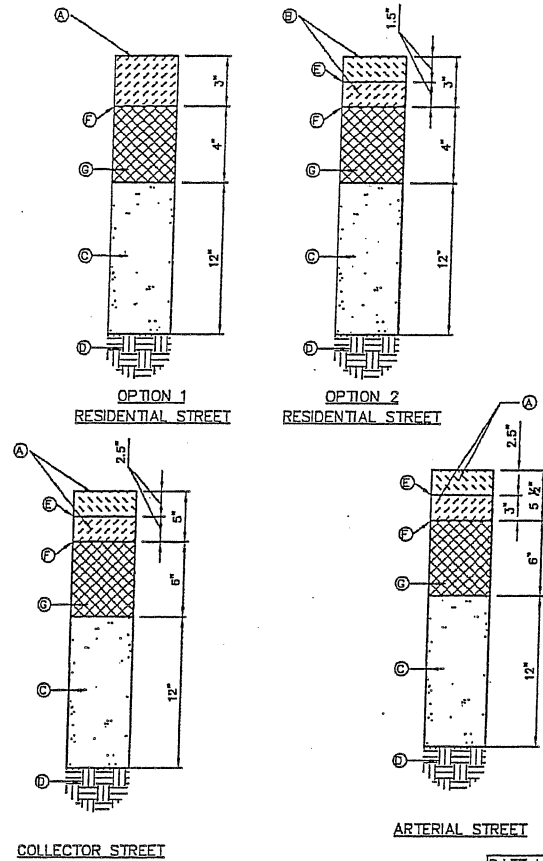
PAD-001 01/01/04 Sheet 10 of 10



N.T.S. PAD-001



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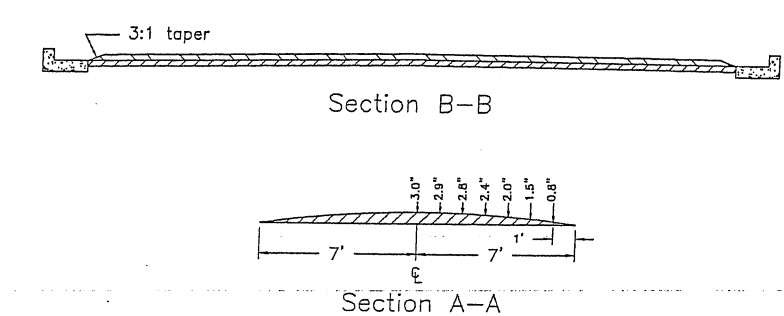
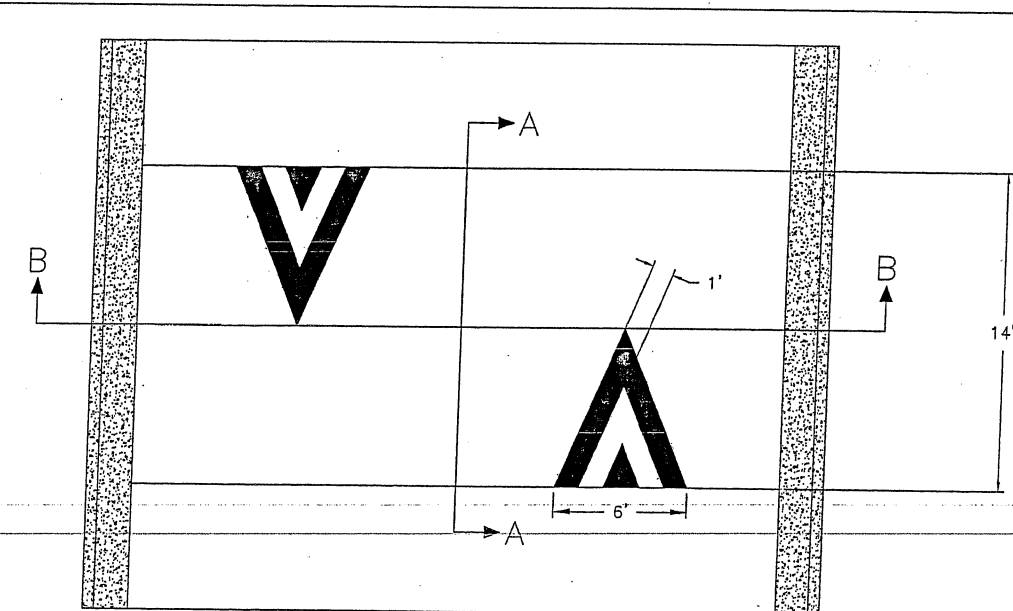
- GENERAL NOTES:**
- ANY DEVIATIONS FROM THESE STANDARDS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR PRIOR APPROVAL.
 - ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BY A LICENSED CONTRACTOR AND REQUIRES PERMIT AND APPROVAL BY THE DEPT. OF PUBLIC WORKS.
 - IN LIEU OF USING THE MINIMUM PAVEMENT DESIGN PROVIDED ON PS-01, A PROJECT/SITE SPECIFIC PAVEMENT DESIGN, INCLUDING BASE COURSE, MAY BE SUBMITTED FOR APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. DESIGN MUST CONFORM TO THE AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES PROCEDURE, 1993, USING A MINIMUM OF 10 ESAL'S. NOMOGRAPHS SHALL NOT BE USED.
 - AN ASPHALT CERTIFICATION LETTER SHALL BE PROVIDED TO THE DEPT. OF PUBLIC WORKS BEFORE ANY PAVING BEGINS. THIS CERTIFICATION MUST REFERENCE AN APPROVED/CURRENT MIX DESIGN FROM THE NMDOT. PLEASE STATE CLEARLY THE SML MIX DESIGN NO. & NMDOT LAB NO.
 - THE ASPHALT BINDER SHALL BE PG 64-22 IN COMPLIANCE WITH THE NMDOT PAVEMENT DESIGN DIRECTIVE. IT MAY BE ADJUSTED BASED ON THE 20 YR DESIGN ESALS IN ACCORDANCE WITH TABLE A-7 IN THE 2008 PAVEMENT DESIGN DIRECTIVE.
 - SUBGRADE R-VALUE OF 50 OR LESS IS CONSIDERED UNSUITABLE. ONLY MATERIAL WITH AN R-VALUE OF 50 OR BETTER SHALL BE USED.
- KEYED NOTES:**
- ASPHALT CONCRETE TYPE SP-III, PLACED IN LIFTS AS SHOWN SHALL CONFORM WITH SECTION 423 OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY & BRIDGE CONSTRUCTION, CURRENT EDITION.
 - ASPHALT CONCRETE TYPE SP-IV, PLACED IN LIFTS AS SHOWN SHALL CONFORM WITH SECTION 423 OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY & BRIDGE CONSTRUCTION, CURRENT EDITION.
 - SUBGRADE PREPARATION, 95% MIN. COMPACTION PER ASTM D 1557.
 - COMPACTED FILL OR UNDISTURBED EARTH, 90% MIN. COMPACTION PER ASTM D 1157.
 - TACK COAT SHALL BE APPLIED TO ALL NON-ASPHALT SURFACES DIRECTLY IN CONTACT WITH FUTURE ASPHALT. IF PAVING OF MULTIPLE ASPHALT LIFTS TAKE PLACE WITHIN THE SAME DAY TACK COAT CAN BE ELIMINATED BETWEEN THE ASPHALT LIFTS.
 - PRIME COAT, AS REQUIRED BY THE ENGINEER, OR BASE COURSE SHALL BE MOISTURE CONTROLLED AT COMPACTION MOISTURE RANGE.
 - AGGREGATE BASE COURSE SHALL CONFORM WITH SECTION 304 OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY & BRIDGE CONSTRUCTION, CURRENT EDITION.

PEDESTRIAN TRAIL OR PARKING LOT

City of Rio Rancho
Department of Public Works

PAVEMENT SECTIONS

DWG. NO. PS-01 Oct 2, 2008



CITY OF RIO RANCHO DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION		
INFRASTRUCTURE	DESIGNED BY: T.J.B.	
14' SPEED HUMP PROFILE AND CROSS SECTION	DRAWN BY: T.J.B.	
	CHECKED BY:	
APPROVED BY:		DATE: 5/22/02
SCALE: NTS	ENGINEER'S PROJECT NO.:	SHEET NO.: 1 of 1

City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
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3			
2			
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www.wilsonco.com

BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

ROAD DETAILS

PROJECT NO. 07600014-34

DESIGNED BY: ESC

DRAWN BY: DAP

CHECKED BY: SJS

DATE: MAY 2010

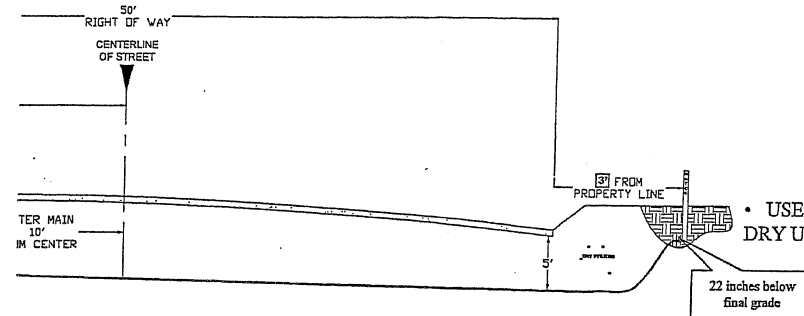
DPW CHK:

SHEET

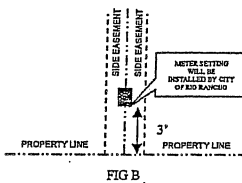
47 of 50



SERVICE LINE DIAGRAM



NOT TO SCALE



W-4-1

APPROVED BY: SG

NOTE:

• UNIMPROVED ROADS:

- 5 FEET MINIMUM BURY ON WATER MAIN
- WATER METER SETTING WILL BE LOCATED 3 FEET FROM FRONT PROPERTY LINE IN SIDE EASEMENT IN FRONT DRY UTILITIES SEE FIG B.

- VARIANCE TO BE APPROVED BY CUSTOMER SERVICE DEPARTMENT

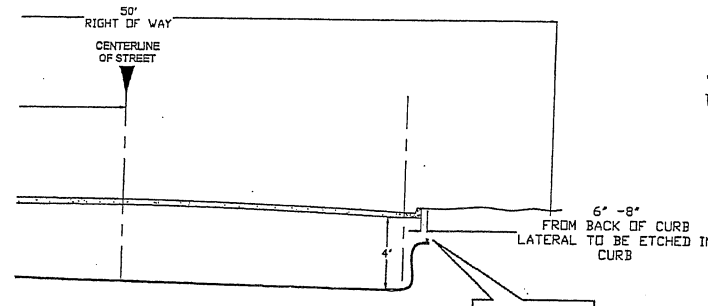
- USE CAUTION WHEN CROSSING DRY UTILITIES.

A	FORD S70 SERIES FOR TAPS 2"-3" OR FORD S90 SERIES FOR TAPS 4"-12" OR APPROVED EQUAL	BRASS SADDLE W/C THREAD
B	FORD F-1000-4G OR APPROVED EQUAL	1" CORP STOP W/C THREAD
C	1" TYPE K SOFT	1" COPPER TUBING
D	FORD B41-444G OR APPROVED EQUAL	1" BALL STYLE CURB STOP
		WOOD STAKE W/REBAR - 4' LENGTH

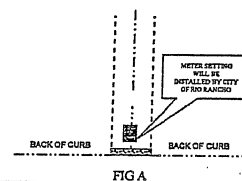
10



SERVICE LINE DIAGRAM



NOT TO SCALE



W-4

APPROVED BY: SG

NOTE:

• ROADS WITH CURB:

- 4' MINIMUM BURY ON WATER MAIN.
- METER SETTING 6'-8" FROM BACK OF CURB FIG A.

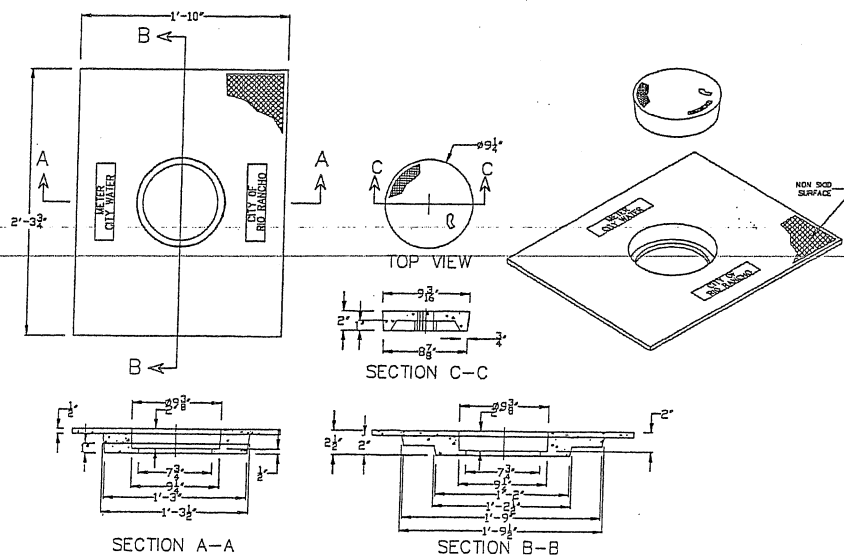
- USE CAUTION WHEN CROSSING DRY UTILITIES.

A	FORD S70 SERIES FOR TAPS 2"-3" OR FORD S90 SERIES FOR TAPS 4"-12" OR APPROVED EQUAL	BRASS SADDLE W/C THREAD
B	FORD F-1000-4G OR APPROVED EQUAL	1" CORP STOP W/C THREAD
C	1" TYPE K SOFT	1" COPPER TUBING
D	FORD B41-444G OR APPROVED EQUAL	1" BALL STYLE CURB STOP
		WOOD STAKE W/REBAR - 4' LENGTH

11



METER CAN LID DETAILS



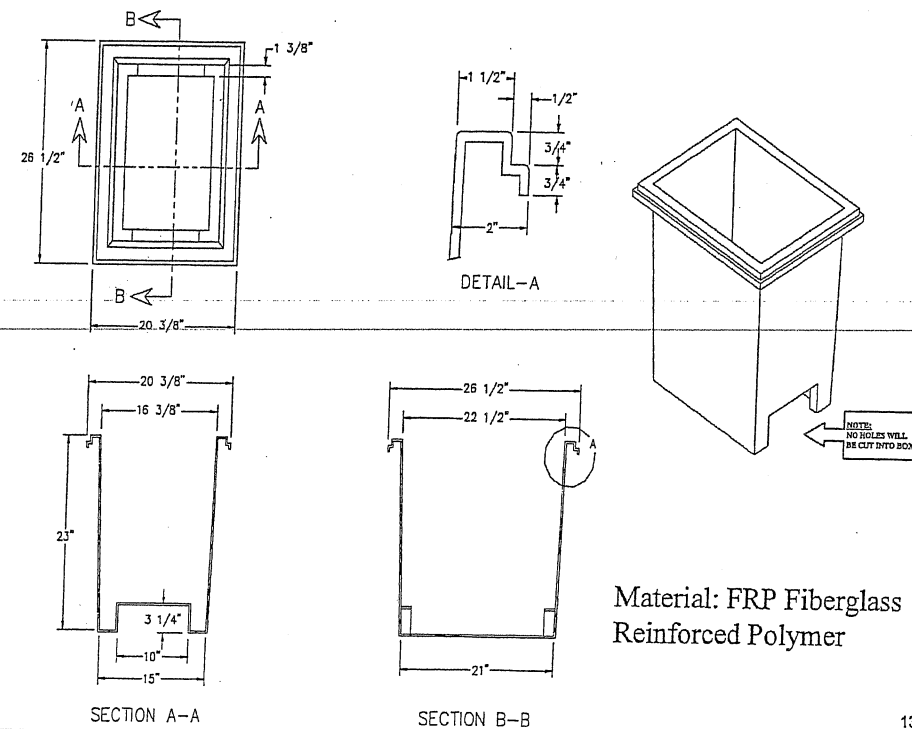
22" X 28 3/4" X 2-1/2" POLYMER CONCRETE COVER WITH 9" LID

NOT TO SCALE

12



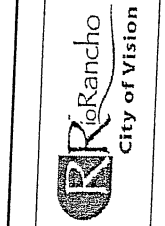
METER CAN DETAILS



Material: FRP Fiberglass Reinforced Polymer

NOT TO SCALE

13



City of Rio Rancho

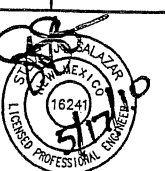
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REVISIONS (OR CHANGE NOTICES)

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BROADMOOR DRIVE /
 21st AVENUE
 ROADWAY IMPROVEMENTS

WATER DETAILS



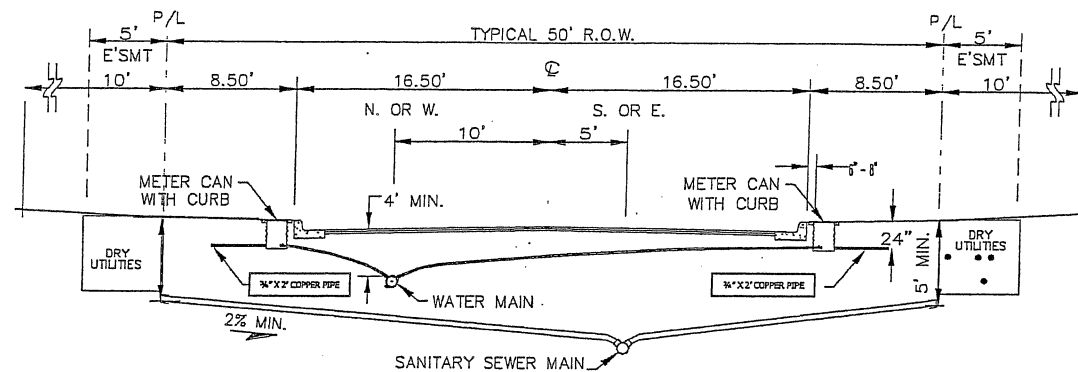
PROJECT NO. 07600014-34
 DESIGNED BY: ESC
 DRAWN BY: DAP
 CHECKED BY: SJS
 DATE: MAY 2010
 DPW CHK:
 SHEET

48 of 50

NOTE TO CONTRACTOR
 THIS SHEET MAY NOT CONTAIN AN ALL INCLUSIVE LIST OF DETAILS.
 OTHER CITY OF RIO RANCHO STANDARD DETAILS MAY APPLY. THE
 CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHICH STANDARD
 DETAILS MAY APPLY.



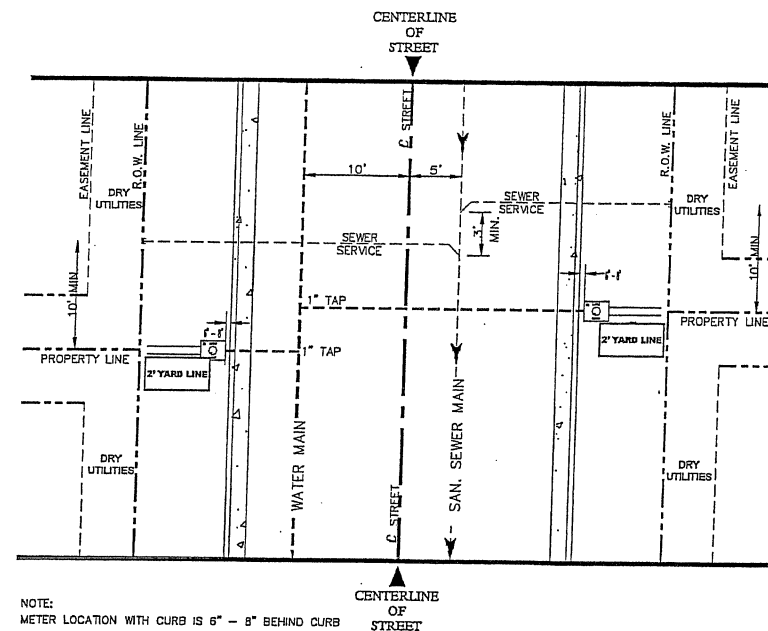
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6



NOT TO SCALE



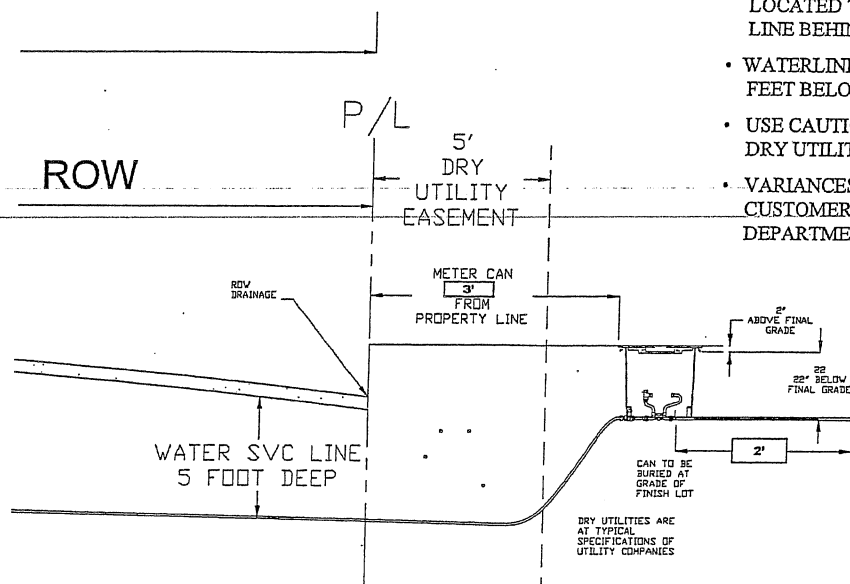
W15/200



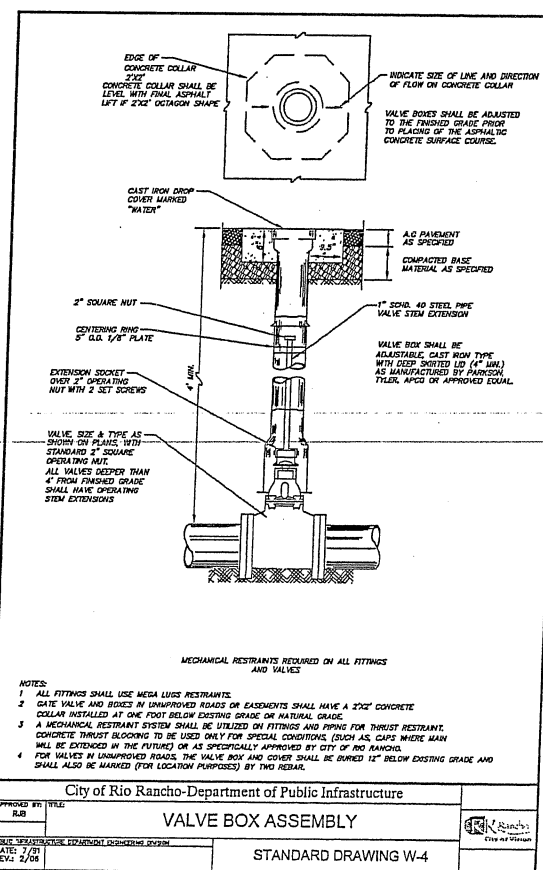
NOT TO SCALE

NOTE:

- WATER METER CAN WILL BE LOCATED 7 FEET FROM PROPERTY LINE BEHIND DRY UTILITIES.
- WATERLINE WILL BE LOCATED 5 FEET BELOW ROAD GRADE.
- USE CAUTION WHEN CROSSING DRY UTILITIES.
- VARIANCES APPROVED BY CUSTOMER SERVICE DEPARTMENT



8



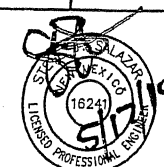
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& COMPANY**
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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

WATER DETAILS



PROJECT NO. 07600014-34

DESIGNED BY: ESC

DRAWN BY: DAP

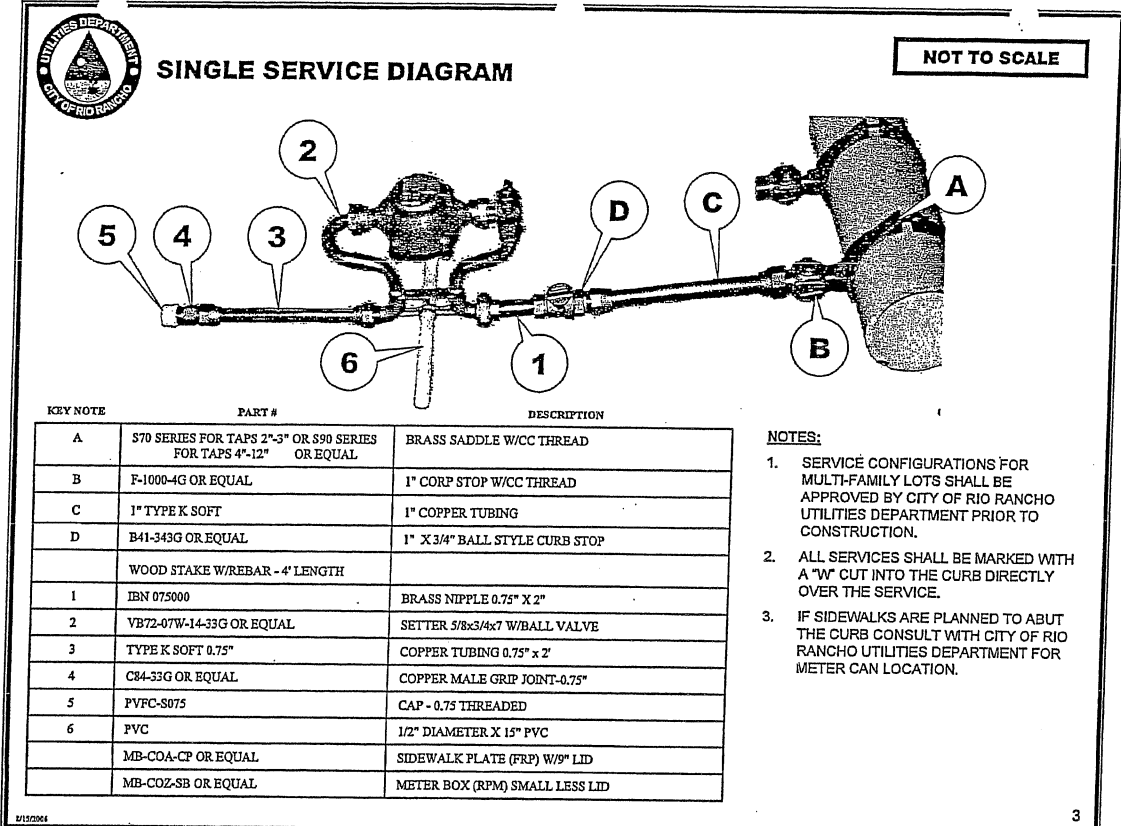
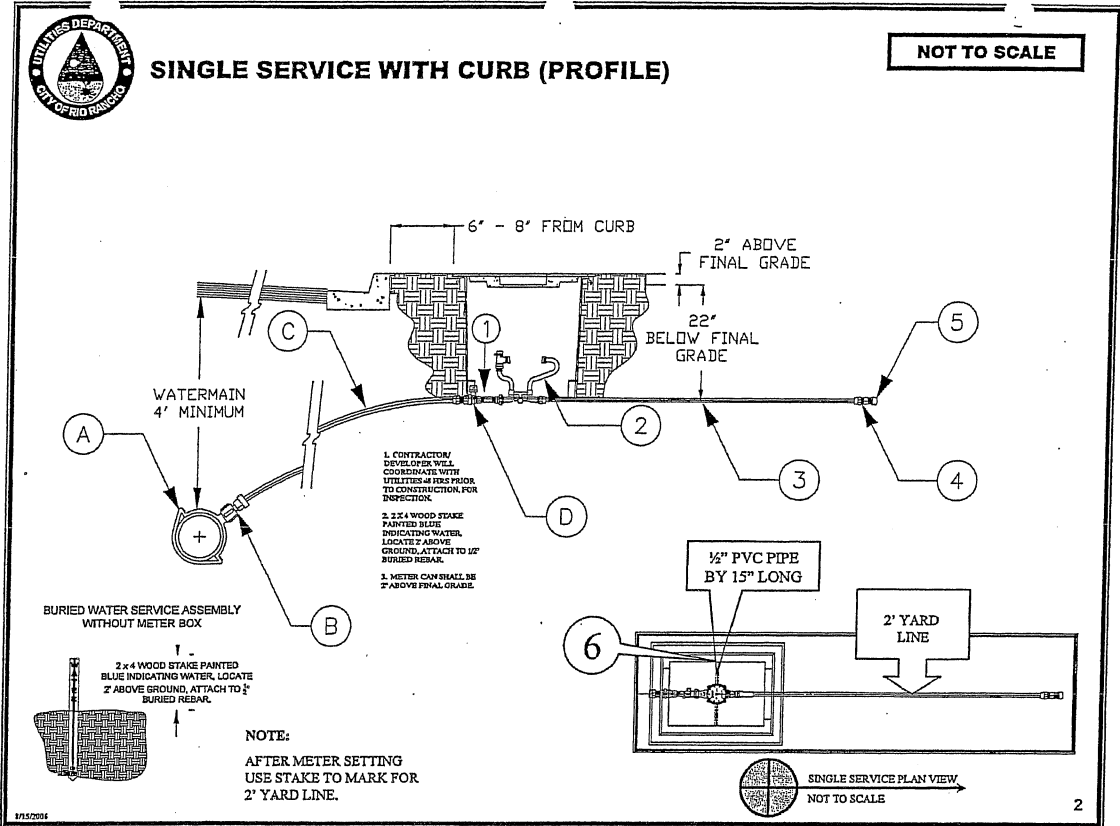
CHECKED BY: SJS

DATE: MAY 2010

DPW CHK:

SHEET

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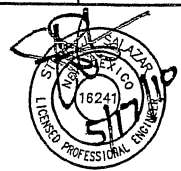


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BROADMOOR DRIVE /
21st AVENUE
ROADWAY IMPROVEMENTS

WATER DETAILS



PROJECT NO.	07600014-34
DESIGNED BY:	ESC
DRAWN BY:	DAP
CHECKED BY:	SJS
DATE:	MAY 2010
DPW CHK:	

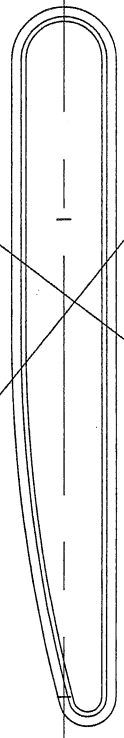
SHEET
50 of 50

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221
N 1548003.7
E 1513427.5
CleanOut

222
N 1548004.3
E 1513428.1
CleanOut

43+00



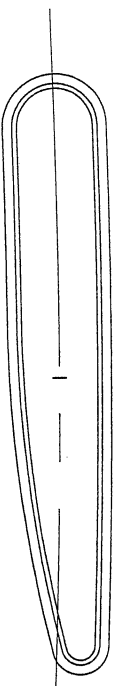
DELETED

MED-08

223
N 1547660.6
E 1513438.6
CleanOut

39+00

224
N 1547661.0
E 1513439.5
CleanOut



MED-07

36+00

35+57.0, 4.50' LT

36+43.6, 4.50' LT

3.50' R

4.50' R

35+57.0, 4.50' RT

36+14.1, 4.50' RT

150.0' R

36+43.9, 1.44' RT

9.9' B/B

Lip of Gutter per Plans

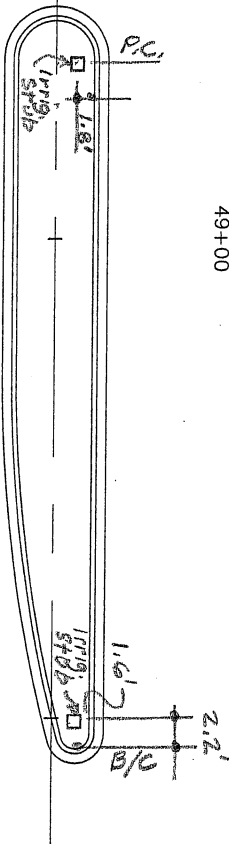
MED-06

Median-06 modified to accommodate
Typical Street Section

200
N 1548604.5
E 1513430.7
CleanOut

201
N 1548904.8
E 1513431.8
CleanOut

49+00

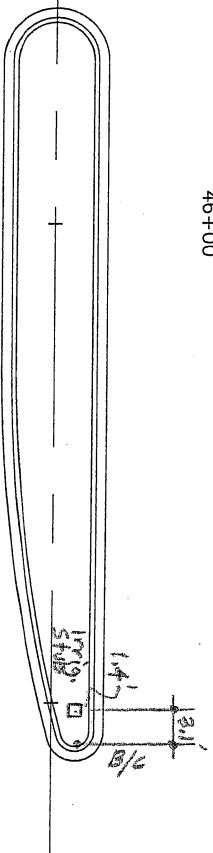


MED-10

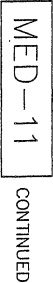
219
N 1548304.4
E 1513429.3
CleanOut

220
N 1548304.7
E 1513430.5
CleanOut

46+00



MED-09



BROADMOOR DRIVE
CHANGE ORDER
AS-BUILTS
DECEMBER, 2010
PAGE 3 of 4
1" = 20'

59+00

208
N 1549755.3
E 1513437.1
CleanOut

209
N 1549755.4
E 1513438.2
CleanOut

60+00

59+00 MATCH LINE

MED-12

CONTINUED

58+00

59+00

57+50 MATCH LINE

MED-12

CONTINUED

206
N 1549376.1
E 1513435.3
CleanOut

56+00

207
N 1549376.1
E 1513436.4
CleanOut

56+00

57+00

57+50 MATCH LINE

CLEANOUT LOCATIONS AT HIGH DESERT BLVD.

MED-12

213
N 1550131.1
E 1513437.9
CleanOut

56+00

214
N 1550130.9
E 1513439.2
CleanOut

64+00

215
N 1550134.9
E 1513443.8
CleanOut

216
N 1550136.0
E 1513443.9
CleanOut

2.7'
2.7'
2.8'
2.8'
Irrig. Stub

BROADMOOR DRIVE
CHANGE ORDER
AS-BUILTS
DECEMBER, 2010

PAGE 4 of 4
1" = 20'