

[illegible]

GENERAL NOTES

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE.
6. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
7. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
8. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THE CITY OF ALBUQUERQUE.
9. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN CHANGE IS MADE, THE FINISHED LOCATIONS OF THE PAVEMENT AT ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
10. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
11. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
12. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO EXPOSE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABQONLINE.ORG/CONTENT/NEW/463/728](http://abqonline.org/content/new/463/728)
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED CONTRACT DOCUMENT RECOMMENDATIONS, MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT WITH OSHA 29 CFR 1926.65 SUBPART P.
15. ELECTRONIC MARKER SPHERES (EMS) OR DEVICES WILL BE PLACED ACCORDING TO SECTION 17.0 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8.
16. PRIVATE STREETS REQUIRE STREET NAME SIGNS, STOP SIGNS, AND ANY NECESSARY STRIPING (DEVELOPER'S RESPONSIBILITY).
17. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, CURB & GUTTER, HANDICAP RAMPS AND SIDEWALK DURING CONSTRUCTION. APART FROM THOSE SPECIFICALLY INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE, PER CITY OF ALBUQUERQUE STANDARDS, AT HIS OWN EXPENSE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

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

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9535

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE			APPROVALS	ENGINEER	DATE	*****	
			DRC CHAIRMAN	<i>S Woodall</i>	7/23/12	APPROVED FOR CONSTRUCTION	
			TRANSPORTATION	<i>LA Smith</i>	7-18-12		
			WATER/WASTEWATER	<i>James H. Smith</i>	7-16-12		
			HYDROLOGY	<i>James H. Smith</i>	7-17-12		
			CIP				
			CONSTR. MNGMT.				
			CONSTR. COORD.				
			CITY PROJECT NO.			CITY ENGINEER	DATE
				702783		SHEET	OF
						1	10

I, John Mackenzie, NYPE 1619, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer, and that the original design of the project was prepared by me or by a qualified person under my direct supervision, and that the original Certification is based on site inspections by me or personnel under my supervision, and survey information provided. This Timothy Adrich NMPS number 7719.

John Mackenzie 11-7-12

John M. Mackenzie NMPE 1619

NEW MEXICO
STATE ENGINEER
OFFICE OF THE
STATE ENGINEER
1000 EAST UNIVERSITY AVENUE
S.W. ALBUQUERQUE, N.M. 87102
(505) 243-2800
www.nmstateengineer.com

[illegible]

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 12/13/12

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

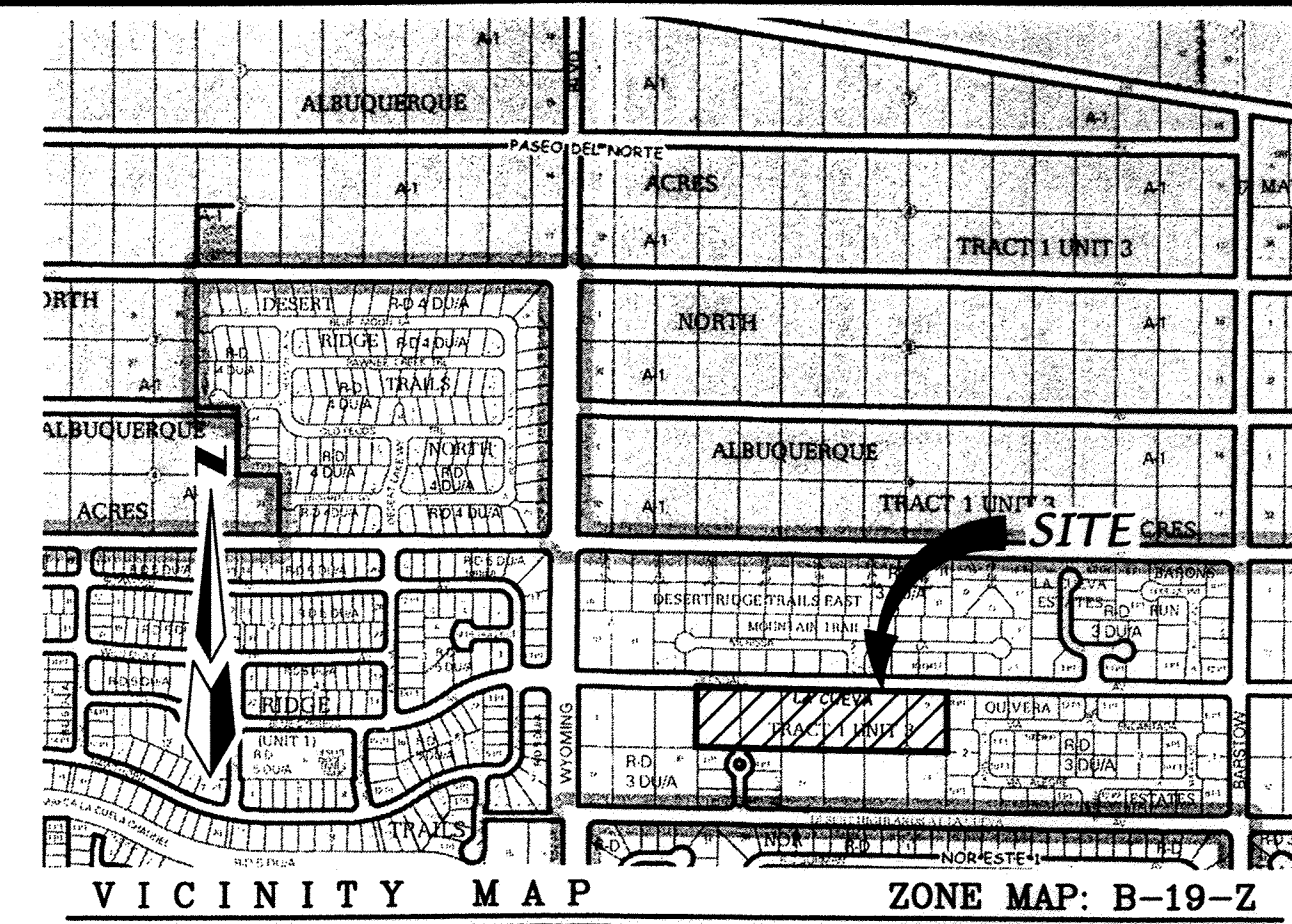
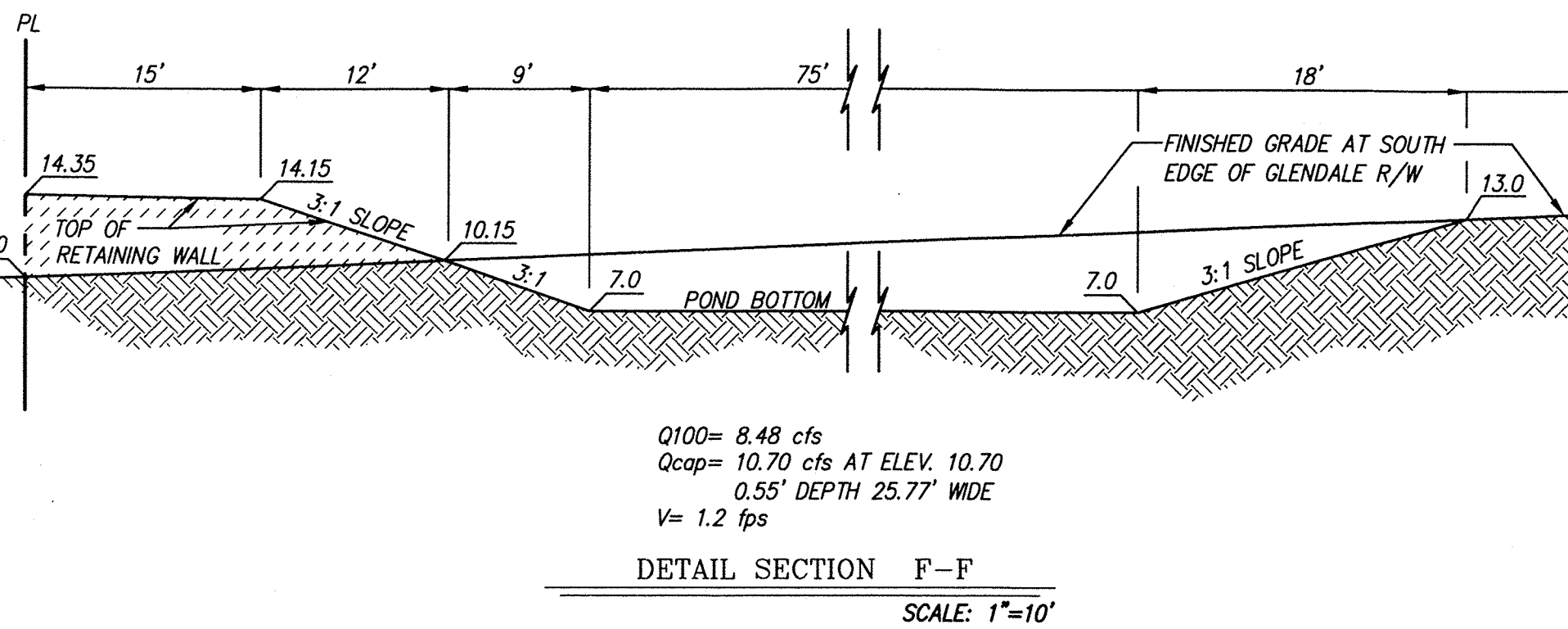
- SURVEYOR'S CERTIFICATION**

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief. Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or content of the record drawings.

10/24

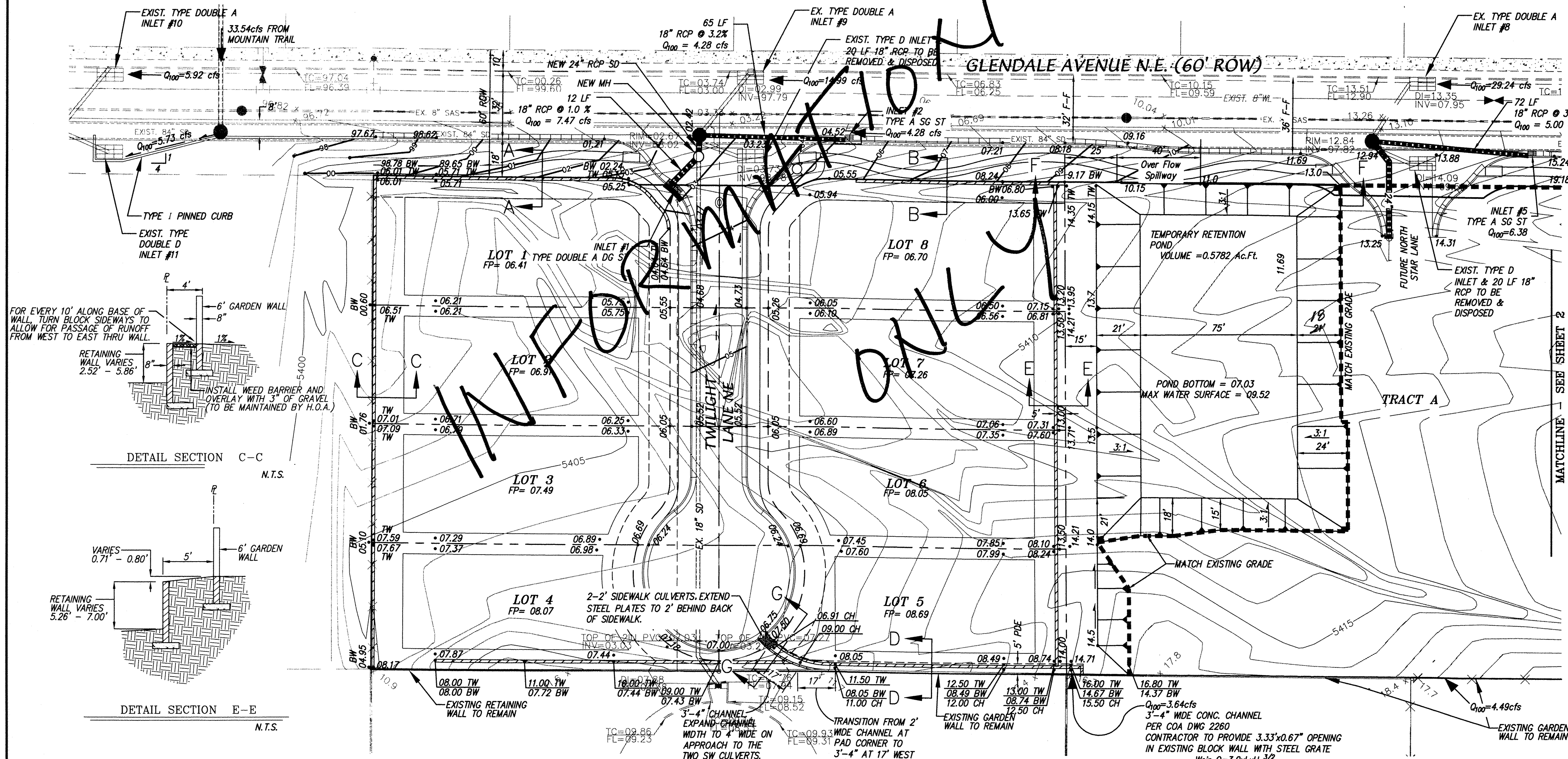
DRB NO. 1008656

1. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE LOCATIONS ONLY AND DO NOT NECESSARILY SHOW ALL THE UTILITIES ON THE SITE.
2. ALL STORM DRAIN, PAVING, CURB, AND VALLEY GUTTER WORK ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS REVISED THROUGH UPDATE ~~98~~ INCLUDING AMENDMENT 98.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
6. IN THE EVENT OF PHASED CONSTRUCTION STORM WATER RUNOFF IS TO BE PREVENTED FROM UNDEVELOPED PORTIONS OF THE SITE BY CONSTRUCTING TEMPORARY RETENTION PONDS IN THE UNDEVELOPED PORTION OF THE SITE CAPABLE OF RETAINING THE 100 YR, 10 DAY STORMWATER RUNOFF VOLUME FROM ALL ON SITE AND OFFSITE AREAS DRAINING TO IT.
7. NOTE ALL STREET SPOT ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED.
8. STRUCTURAL STANDARDS AND SPECIFICATIONS OF WALLS AND SLOPE PAVING ARE NOT PROVIDED ON THIS GRADING AND DRAINAGE PLAN AND ARE TO BE SUPPLIED SEPARATELY BY CONTRACTOR PRIOR TO CONSTRUCTION.

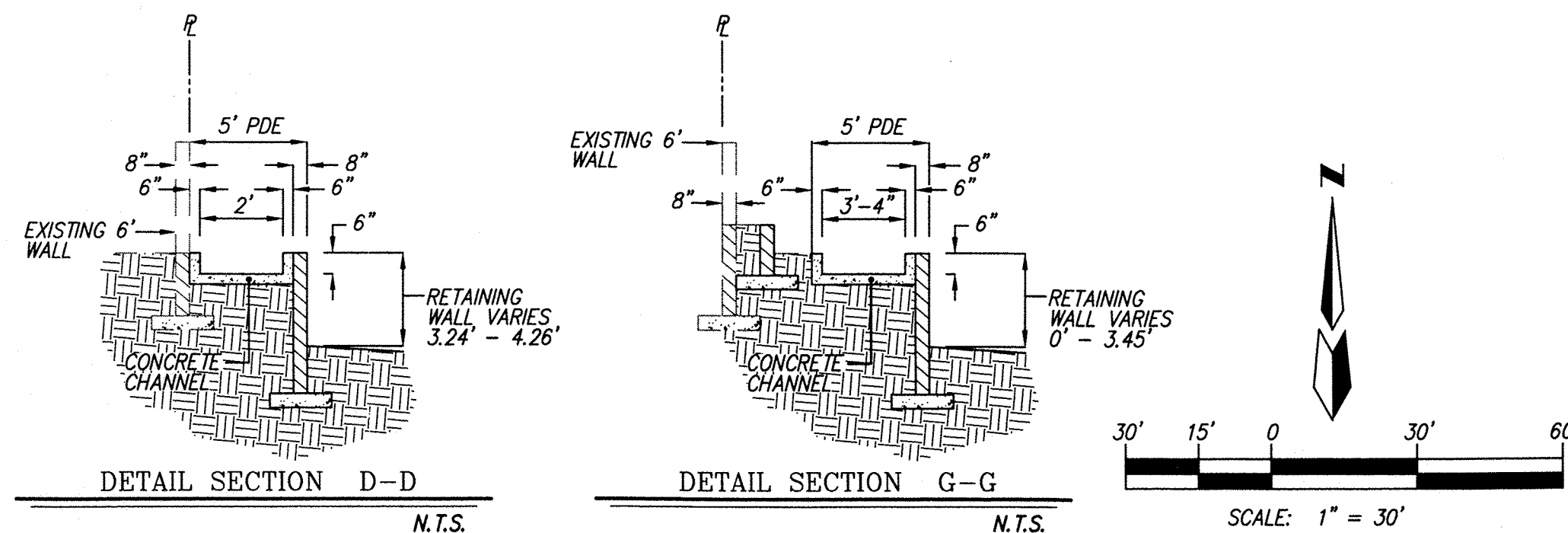


LOTS 4 THRU 9, BLOCK 12, TRACT 1, UNIT 3, NORTH ALBUQUERQUE ACRES
September 10, 1931 in Volume D, Folio 121.

	EXISTING FENCE
	EXISTING WALL OF HEAD WALL
	EXISTING TOP CURB/FLOWLINE
	EXISTING SPOT ELEVATION
	EXISTING DROP INLET
	EXISTING CONTOUR — MAJOR
	EXISTING CONTOUR — MINOR
	NEW STORM DRAIN
	EXISTING STORM DRAIN
	NEW STORM DRAIN INLET
	NEW LOT LINES
	NEW SIDEWALK
	NEW STANDARD CURB & GUTTER
	NEW ROLL CURB & GUTTER
	NEW RETAINING WALL — TO BE CONSTRUCTED AT THE TIME OF ROUGH GRADING
	NEW PERIMETER WALL
	1:1 SLOPE
	ROADWAY GRADES
	FINISHED GRADE ELEVATIONS AT TOP AND BOTTOM OF RETAINING WALLS.
	GARDEN WALL DEFERRED TO HOME BUILDER
	TYPE 1 PINNED CURB
	PRIVATE DRAINAGE EASEMENTS.
	LIMITS OF LAND DISTURBING ACTIVITIES



1. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMIT FROM REGULATORY AGENCIES.
2. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.
3. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO OTHER PROPERTY BY INSTALLING SILT FENCES OR PERMANENT BLOCK WALLS AT THE PROPERTY LINES.
4. THE CONTRACTOR SHALL WET THE SOIL AS NEEDED TO KEEP IT FROM BLOWING. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT FOR PAYMENT SHALL BE MADE THEREFOR. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. HOWEVER, WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 21 DAYS STABILIZATION MEASURES MUST BE INITIATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.
5. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING IT TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.
6. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE GRUBBING, EXCESS CUT MATERIAL, VEGETATION DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES AND ARCHAEOLOGICAL RESOURCES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICAL PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE AT 1-(505)-822-1558 OR 1-(800)-219-6157.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
10. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER PREVENTION PLAN ONSITE AT ALL TIMES.



RECORD DRAWING

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ***THE ESTATES AT GLENDALE - UNIT 1***
GRADING & DRAINAGE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
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CITY ENGINEER APPROVAL

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X

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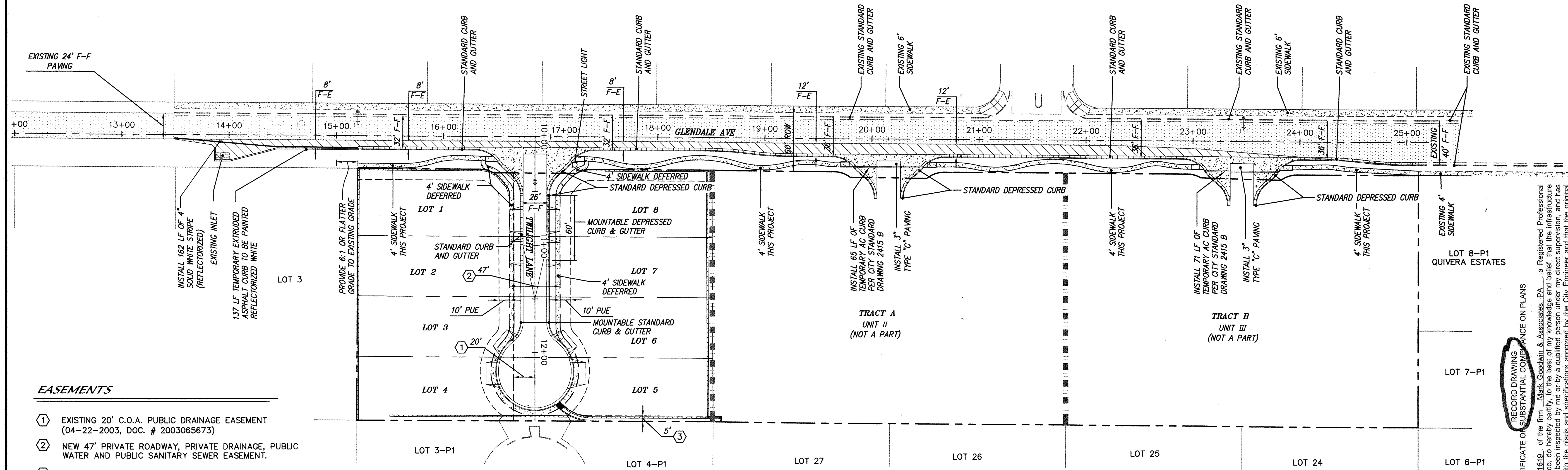
CITY PROJECT NO.

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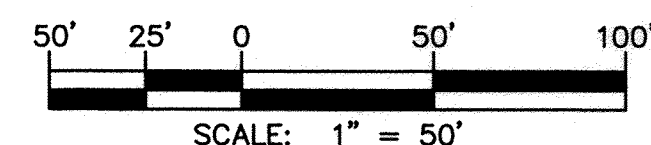
B-19-Z

SHEET **4** OF **10**



- ① EXISTING 20' C.O.A. PUBLIC DRAINAGE EASEMENT
(04-22-2003, DOC. # 2003065673)
- ② NEW 47' PRIVATE ROADWAY, PRIVATE DRAINAGE, PUBLIC
WATER AND PUBLIC SANITARY SEWER EASEMENT.
- ③ NEW PRIVATE DRAINAGE EASEMENT.

1. ALL SIDEWALKS PER C.O.A. STD. DWG 2430.
2. ALL 6' VALLEY GUTTERS PER C.O.A. STD. DWG 2420.
3. ALL HANDICAP RAMPS ARE PER C.O.A. DETAIL 2426 WITH ADA COMPLIANT TRUNCATED DOMES. SUBMIT SPECIFICATIONS TO CONSTRUCTION ENGINEER PRIOR TO CONSTRUCTION.
4. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE 10 FEET PER C.O.A. STD. DWG #2418.
5. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET PER C.O.A. STD. DETAIL 2401.
6. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB AT INTERSECTIONS SHALL OCCUR THROUGH THE H.C. RAMP PER C.O.A. STD. DWG 2418.
7. SOIL NOT HAVING THE MINIMUM R-VALUE OF ≥ 50 FOR STREETS SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED, BY THE CONTRACTOR, WITH SUITABLE MATERIAL, OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STD. SPECIFICATIONS.
8. ALL DRIVEPADS ARE ADA PER C.O.A. STD. DWG 2425, 20' WIDE.
9. PAVING ON TWILIGHT LANE SHALL BE 3" TYPE C RESIDENTIAL AS SHOWN ON RESIDENTIAL STREET SECTION THIS SHEET.



RECORD DRAWING

John MacKenzie, NMPE 11819, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted on the as-built construction drawings. This certification is based on site inspections by me or personnel under my direct supervision, and survey information provided by the City Engineer.

John M. Mackenzie NMPE 11619

I, John MacKenzie, certify that this electronic version is identical to the original reproducible approved for CONSTRUCTION drawings signed by me on November 7-16, 2012.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
NO.	DATE	BY	DATE			WORK STARTED BY	CONTRACTOR
				AGRS Brass Cap. In concrete post stamped "1-B20"		DATE	ALVANCE
				From the intersection of Louisiana Boulevard and Paseo Del Norte NE go east on Paseo Del Norte 1 mile to Barstow Street, then north on Barstow Street 1 mile to Modesto Avenue. The station is located in the northeast quadrant of the intersection.		DATE	ALS
NO.	DATE	BY		Geographic Position (NAD83), in feet		FIELD DRAWINGS CORRECTED BY	ALVANCE
				N.M. State Plane Coordinates (Central Zone)		DATE	ALS
				N=1524154.945, E=1500483.349		RECORDED BY	NO.
				Elevation=5477.179 (NAD08), in feet			
DESIGNED BY	DATE	11/11					
DRAWN BY	DATE	11/11					
CHECKED BY	DATE	11/11					

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *THE ESTATES AT GLENDALE UNIT 1
MASTER PAYING PLAN*

DESIGN REVIEW COMMITTEE

APPROVED

JUL 23 2012

DESIGN
REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
AUG 01 2012
CITY ENGINEER

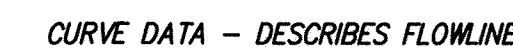
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702783

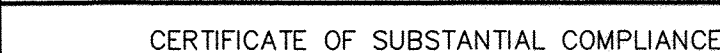
ZONE MAP NO.

ZONE MAP NO.
B-19-Z

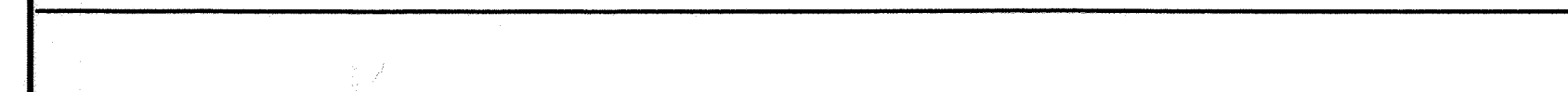
SHEET 5 OF 10



SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION			
NO.	FIELD NOTES		CONTRACTOR	WORK INSTALLED BY	DATE 1	DATE 2	DATE 3	DATE 4
	BY	DATE						
		ARCS Brass Cap in concrete post stamped "1-B20". From the intersection of Louisiana Boulevard and Paseo Del Norte NE go east on Paseo Del Norte 1 mile to Barstow Street; then north on Barstow Street 1 mile to Modesto Avenue. The station is located in the northeast quadrant of the intersection. Geographic Position (NAD83), in feet N.M. State Plane Coordinates (Central Zone) N=1524154.945, E=1500483.349 Elevation=5477.179 (NAD09), in feet	CONTRACTOR <i>SUNDANCE</i> WORK INSTALLED BY <i>ALS</i> DATE 1 <i>1/1/16</i> DATE 2 <i>2/2/16</i> DATE 3 <i>1/1/16</i> DATE 4 <i>1/1/16</i> FIELD ENGINEER BY <i>ALS</i> DRAWN BY <i>ALS</i> CHECKED BY <i>ALS</i> RECORDED BY NO.					



DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED JUL 23 2012 DESIGN REVIEW COMMITTEE	APPROVED AUG 01 2012 CITY ENGINEER			



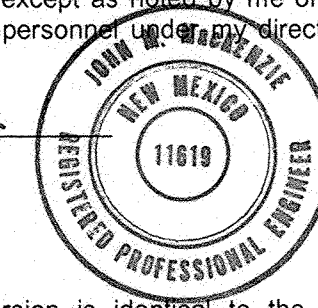
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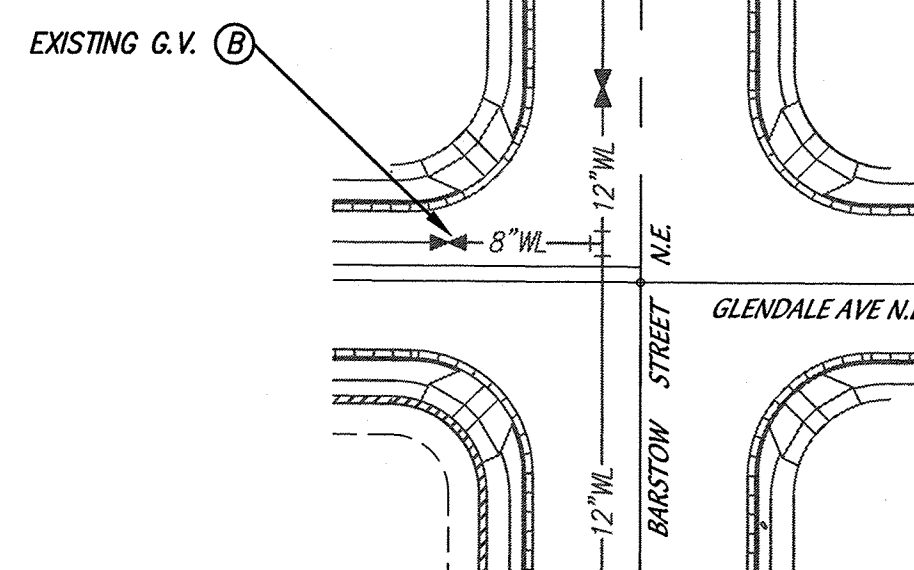
RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, John Mackenzie, NMPE 11619, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or person under my direct supervision, and survey information provided by Timothy Adrich NMPS number 7719.

John Mackenzie 11-7-12
John M. Mackenzie NMPE 11619



I, John Mackenzie, certify that this electronic version is identical to the original reproducible APPROVED FOR CONSTRUCTION drawings signed by me on November 7-16, 2012.

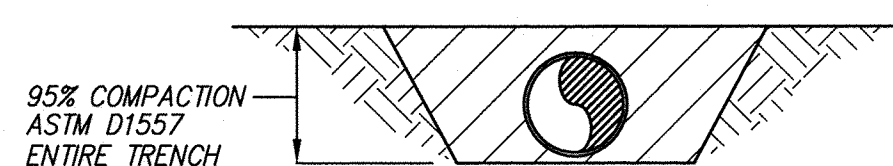


WATER SHUT-OFF PLAN

- CONTRACTOR TO MAKE SHUT-OFF REQUEST ONLINE AT <http://abcwua.org/content/view/full/463/729>
- VALVES SHALL ONLY BE OPERATED BY WATER AUTHORITY EMPLOYEES.
- FOR TWILIGHT LANE & NORTHSTAR LANE CONNECTION AT GLENDALE AVE. CONTRACTOR SHALL BE PREPARED TO SHUT OFF VALVE (A) AND VALVE (C). FOR MOONDUST LANE SHUT OFF VALVE (A) AND VALVE (B).

LEGEND

- EX. CONCRETE CURB AND GUTTER
- EX. WATERLINE
- EX. SANITARY SEWER
- NEW LOT LINE
- NEW PROPERTY LINE
- NEW RIGHT OF WAY LINE
- NEW CENTERLINE
- NEW EASEMENT LINE
- NEW STANDARD CURB AND GUTTER
- NEW MOUNTABLE CURB AND GUTTER
- NEW STORM DRAIN
- NEW WATERLINE
- NEW SANITARY SEWER
- NEW FIRE HYDRANT
- NEW DOUBLE WATER SERVICE
- NEW SINGLE WATER SERVICE
- NEW SANITARY SEWER SERVICE
- NEW SD MH
- NEW SAS MH
- NEW GATE VALVE
- NEW TEE
- NEW BEND
- NEW STORMDRAIN INLET
- NEW STREET ADDRESSES
- FUTURE STANDARD CURB AND GUTTER
- EXISTING DROP INLET
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING WATER VALVE



SUPPLEMENTAL TRENCH SPECIFICATION

NTS

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
4"	12'	5'	2'	1'	32'
6"	17'	7'	3'	2'	46'
8"	22'	9'	4'	2'	60'

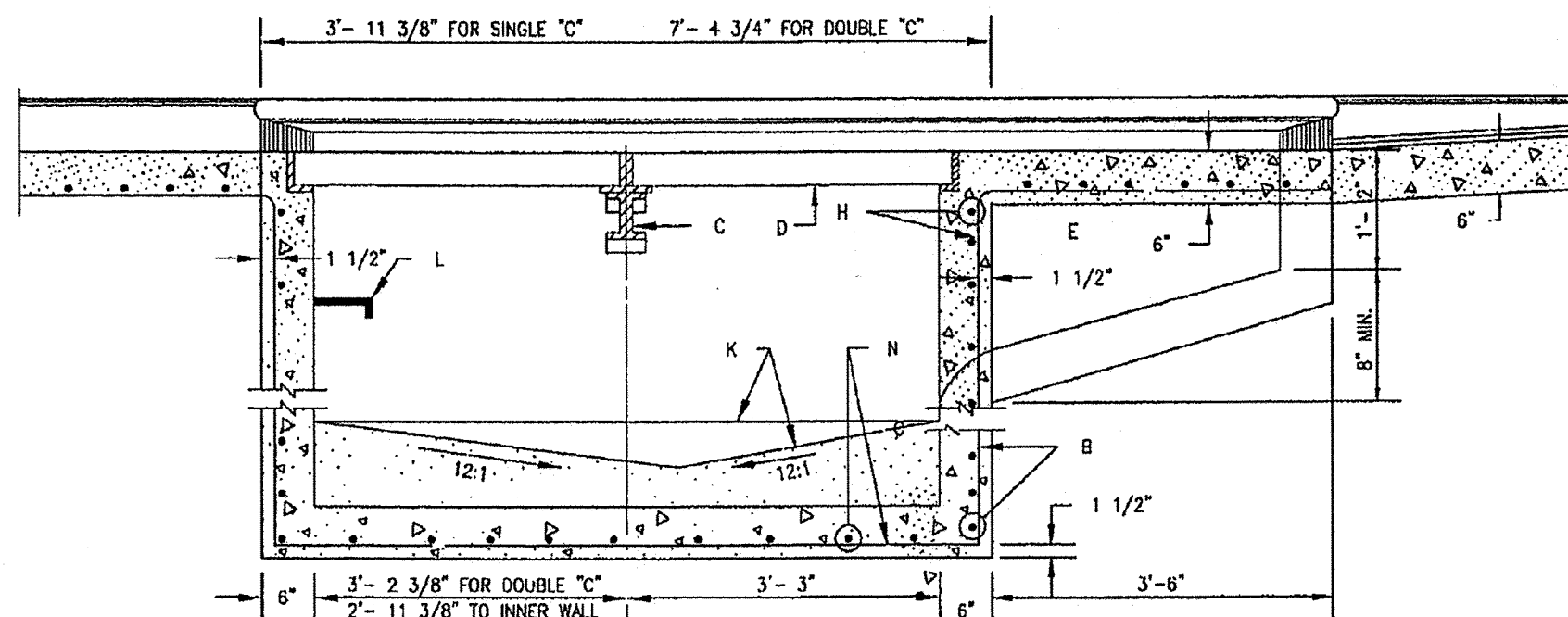
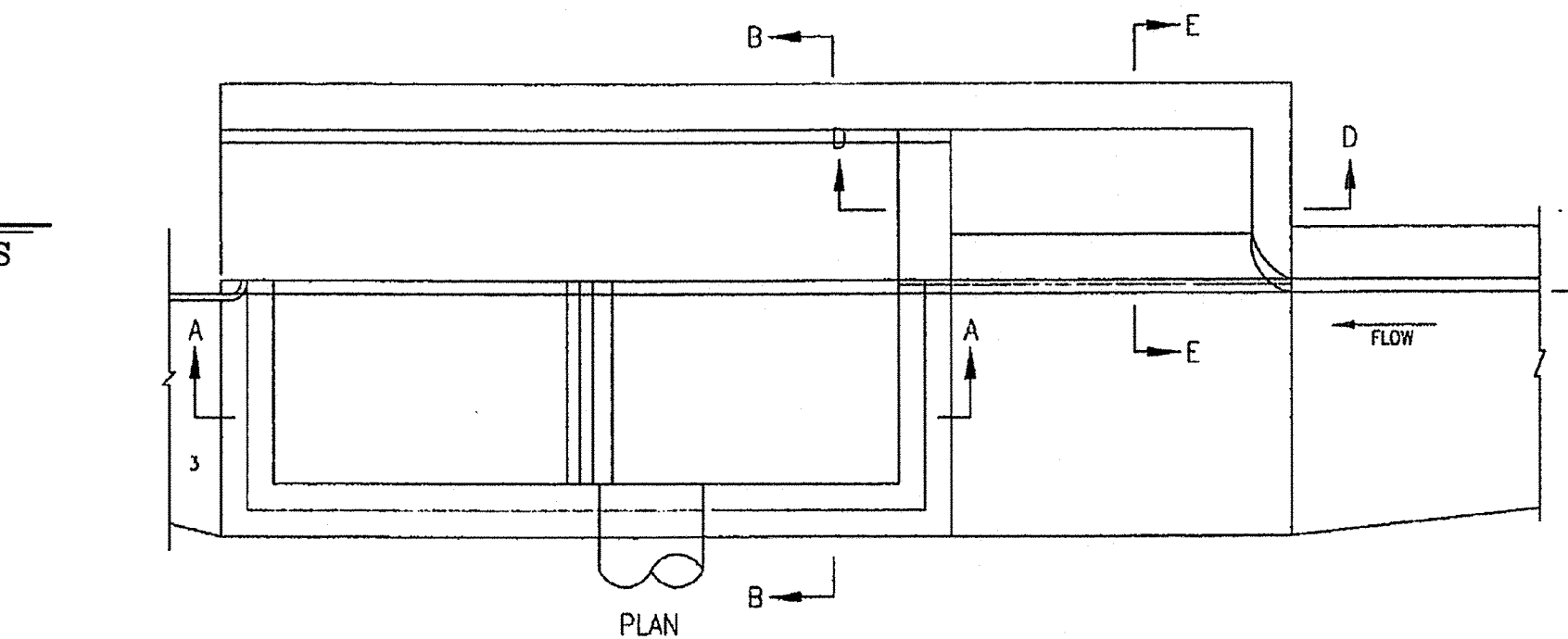
LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)

PIPE SIZE	LARGE SIDE	SMALL SIDE
6" X 4"	24'	35'

RESTRAINED JOINT LENGTH FOR TEES (FT.)

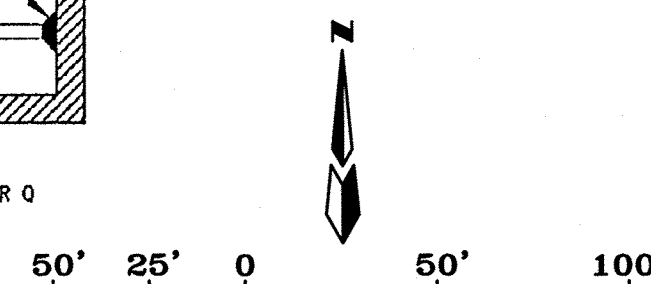
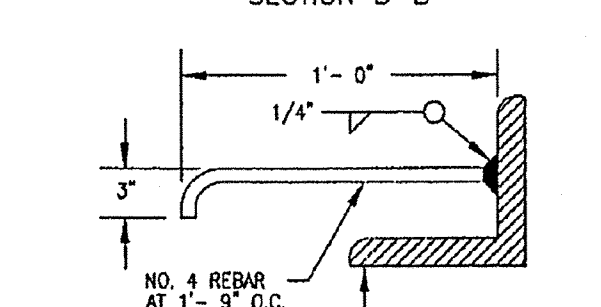
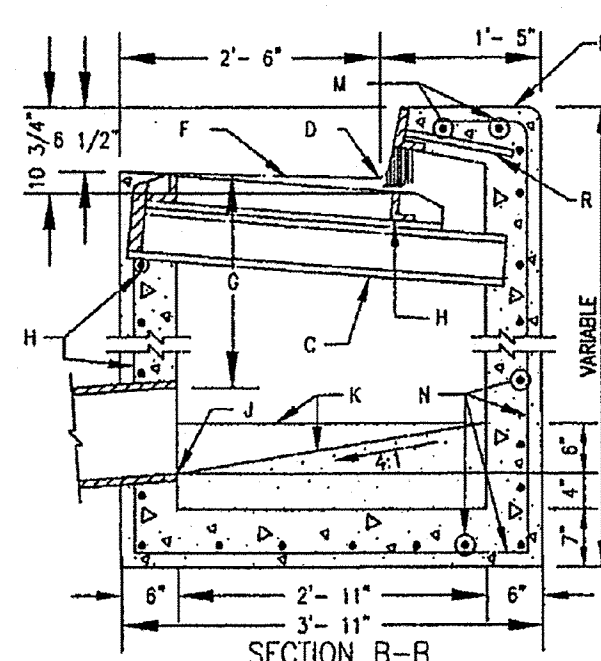
PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'



DOUBLE 'A' INLET DETAIL
NOT TO SCALE

GENERAL NOTES :

- FOR SINGLE GRATE TYPE STORM INLET DELETE CENTER SUPPORT AND MOVE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
- FOR STORM INLET GUTTER TRANSITION, SEE DWG. 2207.
- OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
- FOR FRAME & GRATING, SEE DWG. 2216, 2220 ~~2216~~.
- FOR ANCHOR SEE DETAIL.
- FOR CENTER SUPPORT ASSEMBLY, SEE DWG. 2215.



CONSTRUCTION NOTES :

- GUTTER TRANSITION.
- TOP OF CURB.
- CENTER SUPPORT ASSEMBLY.
- FLOWLINE.
- CONSTRUCTION JOINT.
- NORMAL GUTTER LINE.
- 1'-10" MIN., UNLESS OTHERWISE DIRECTED.
- FRAME AND GRATE.
- INVERT OF OUTLET PIPE.
- CONCRETE FILL, MINIMUM SLOPES AS SHOWN.
- FOR STORM INLET DEPTHS GREATER THAN 4' INSTALL STD STEPS, SEE DWG. 2229, DOWNSTREAM FACE.
- EXTEND NO. 4 REBARS 18" INTO CURB ON EACH SIDE OF STORM INLET.
- NO. 4 BARS AT 6" O.C.
- 3 1/2" X 3 1/2" X 1/2" X 4' - 0" FOR SINGLE GRADE TYPE "C" STORM INLET.
- 3 1/2" X 3 1/2" X 1/2" X 7' - 6" FOR DOUBLE GRADE TYPE "C" STORM INLET.
- ANCHOR.

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



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: THE ESTATES AT GLENDALE UNIT 1
MASTER UTILITY PLAN

DESIGN REVIEW COMMITTEE
APPROVED
JUL 23 2012
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
AUG 01 2012
CITY ENGINEER

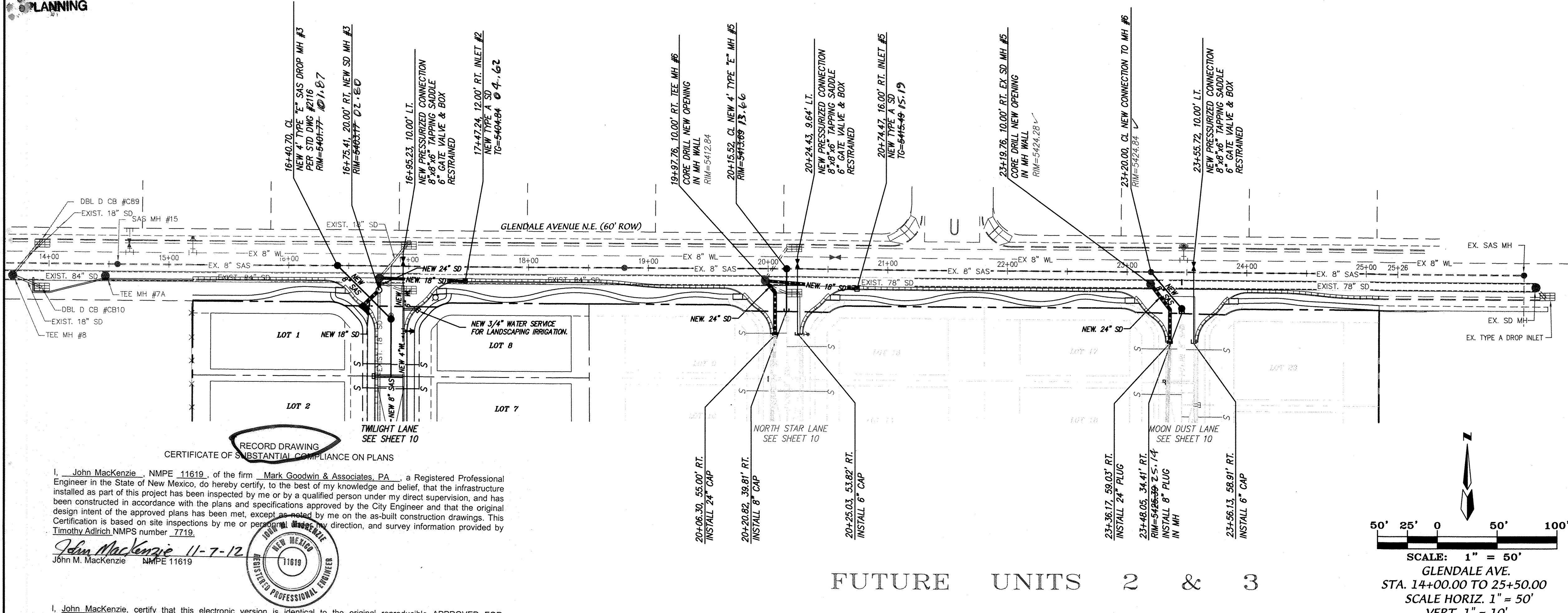
MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO. 702783

ZONE MAP NO. B-19-Z

SHEET 8 OF 10

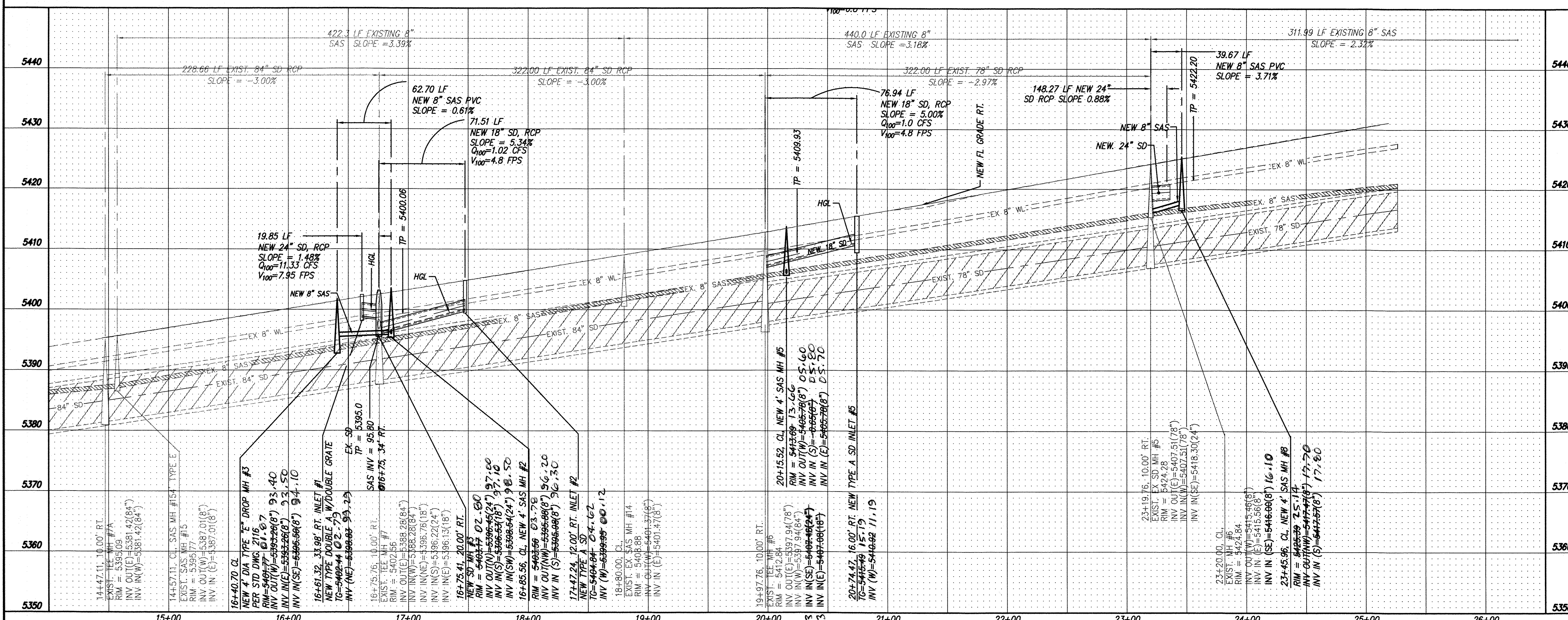
1. ALL STATIONING IS BASED ON CL OF RIGHT-OF-WAY.
2. ALL NEW SAS MANHOLE SHALL BE 4' DIA. TYPE E UNLESS OTHERWISE NOTED.
3. MANHOLES LESS THAN 6' DEEP SHALL BE TYPE C.
4. NEW SAS CONNECTIONS TO EXISTING MANHOLES SHALL BE ACCORDING TO STD DWG 2102.
5. LEAN FILL SHALL BE PLACED AT UTILITY LINE/STORM DRAIN CROSSINGS IN ACCORDANCE WITH WATER AUTHORITY STANDARD DRAWING 2381. LEAN FILL IS NOT REQUIRED WHEN THE UTILITY LINE PASSES OVER STORM DRAIN WITH AT LEAST 12" OF CLEARANCE.
6. Type A inlets are to be installed per City Std. Dwg. 2201 and all grates per City Std. Dwg. 2220.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, John Mackenzie, NMPE 11619, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personal observation, and survey information provided by Timothy Adrich NMPS number 7719.

John Mackenzie 11-7-12
John M. Mackenzie NMPE 11619



ENGINEER'S SEAL		REVISIONS		DESIGN	
NO.	DATE	REMARKS	DATE	DESIGNED BY	CHECKED BY
			05/12	JDH	
			05/12	SPS	
			05/12	DMG	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **THE ESTATES AT GLENDALE UNIT 1
GLENDALE AVENUE N.E.
UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE: **APPROVED** JUL 23 2012
CITY ENGINEER APPROVAL: **APPROVED** AUG 01 2012

CITY PROJECT NO. **702783** ZONE MAP NO. **B-19-Z** SHEET **9** OF **10**

