

LOS DIAMANTES RESIDENTIAL PHASE 1

CITY OF RIO RANCHO
SANDOVAL COUNTY, NEW MEXICO
CONSTRUCTION PLANS

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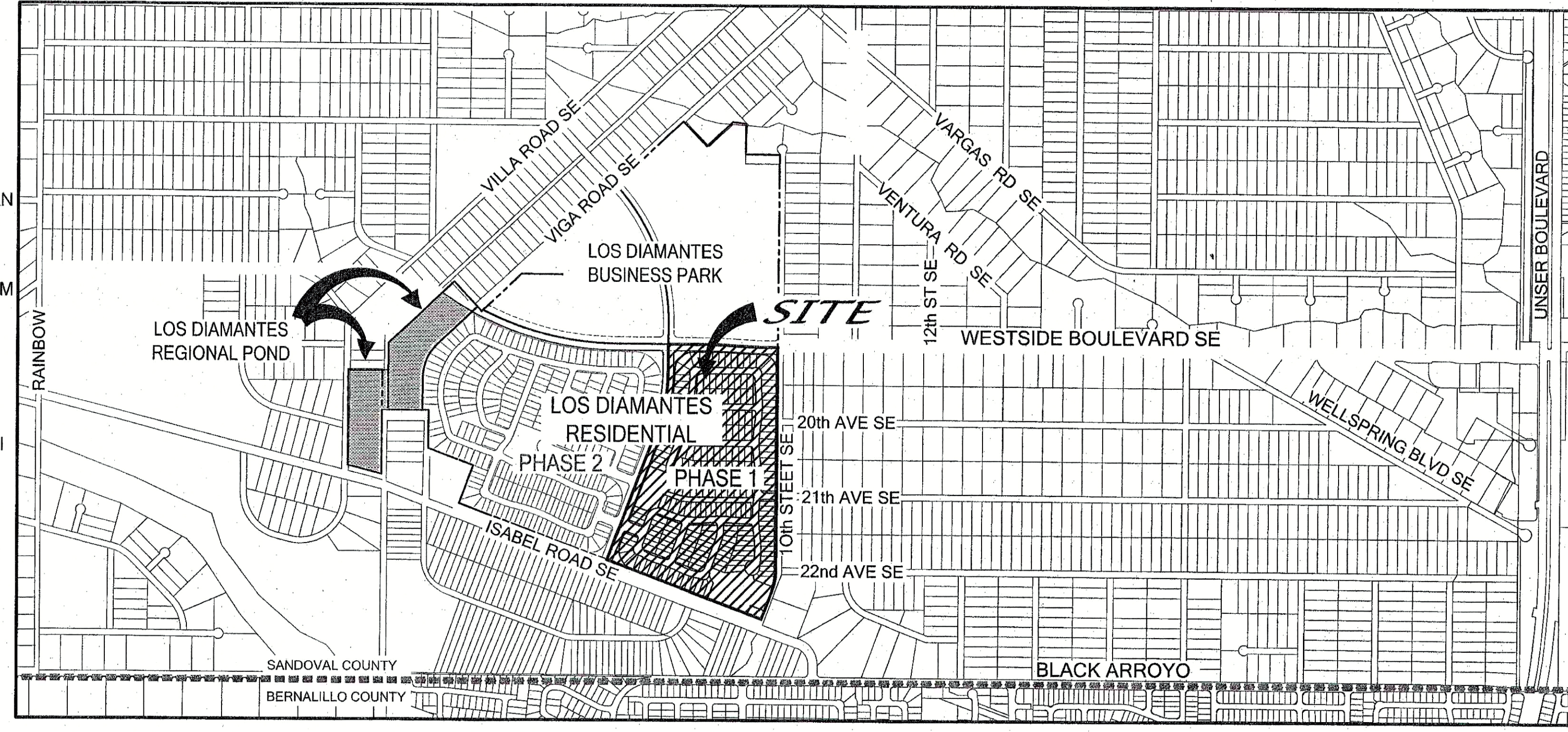
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VICINITY MAP

DEVELOPER:  DATE: 12-23-2020
LD DEVELOPMENT, LLC.

CITY OF RIO RANCHO:  DATE: 2-26-2021
DEVELOPMENT SERVICES



City of Rio Rancho

NO.	DESCRIPTION	DATE	BY
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2			
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OWNER/DEVELOPER
LD DEVELOPMENT, LLC

MARK GOODWIN & ASSOCIATES, P.A.
REGISTERED PROFESSIONAL ENGINEERS
NEW MEXICO, 87198
(505)828-2200, FAX (505)797-8539

LOS DIAMANTES RESIDENTIAL
PHASE 1

COVER SHEET

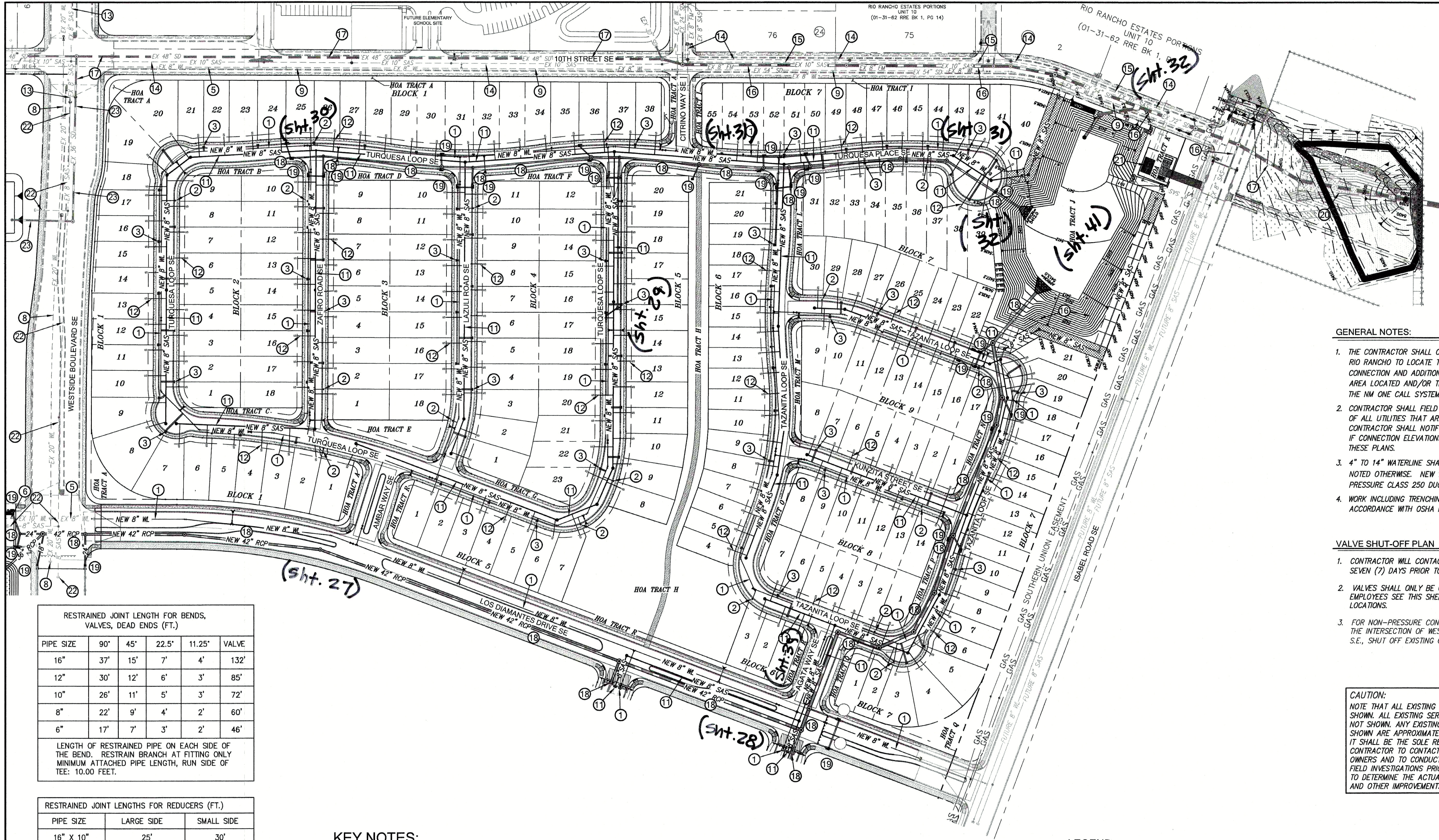


ENGINEER'S SEAL

PROJECT NO.	A18026
DESIGNED BY:	DLH
DRAWN BY:	DER
CHECKED BY:	DLH
DATE:	11/30/20
DPW CHK:	
SHEET:	DE

1 of 60

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.



RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
16"	37'	15'	7'	4'	132'
12"	30'	12'	6'	3'	85'
10"	26'	11'	5'	3'	72'
8"	22'	9'	4'	2'	60'
6"	17'	7'	3'	2'	46'

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
16" X 10"	25'	30'
12" X 10"	25'	30'
12" X 8"	45'	68'
12" X 6"	62'	121'
12" X 4"	74'	213'
10" X 8"	24'	30'
10" X 6"	44'	73'
10" X 4"	58'	141'
8" X 6"	25'	33'

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'

KEY NOTES:

- BUILD NEW 8" SDR18 C900 PVC WATERLINE.
- BUILD NEW SINGLE WATER METER AND SERVICE LINE PER C.O.R.R. STD. DWG. W-5.
- BUILD NEW DOUBLE WATER METER AND SERVICE LINE PER C.O.R.R. STD. DWG. W-5.
- BUILD NEW FIRE HYDRANT ASSEMBLY (COMPLETE IN PLACE) PER C.O.R.R. STD. DWG. S-15.
- EXISTING 8" SDR18 C900 PVC WATERLINE BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, PHASE 1.
- EXISTING 10" SDR18 C900 PVC WATERLINE BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, PHASE 1.
- EXISTING 16" PRESSURE CLASS 250 DUCTILE IRON WATERLINE BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, PHASE 1.
- EXISTING 20" PRESSURE CLASS 250 DUCTILE IRON WATERLINE BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, PHASE 1.
- EXISTING 8" SDR18 C900 PVC WATERLINE BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, 10TH STREET PLANS.
- EXISTING FIRE HYDRANT.
- BUILD NEW 8" SDR35 PVC SANITARY SEWER LINE.
- BUILD NEW SANITARY SEWER SERVICE LINE PER C.O.R.R. STD. DWG. S-06.
- NEW EXISTING 8" DR35 PVC SANITARY SEWER LINE BUILT WITH LOS DIAMANTES WESTSIDE BOULEVARD S.E. PLANS.
- EXISTING 10" DR35 PVC SANITARY SEWER LINE BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, PHASE 2A.
- EXISTING 8" DR-11 HDPE SANITARY SEWER FORCE MAIN BUILT WITH LOS DIAMANTES OFF-SITE UTILITIES, PHASE 2A.
- EXISTING RCP III STORM DRAIN PIPE BUILT WITH LOS DIAMANTES, OFF-SITE UTILITIES, PHASE 2A.
- EXISTING RCP III STORM DRAIN PIPE BUILT WITH LOS DIAMANTES, OFF-SITE UTILITIES, 10TH STREET PLANS.
- BUILD NEW RCP III STORM DRAIN.
- BUILD NEW STORM DRAIN INLETS PER C.O.R.R. STD. DWGS.
- EXISTING STORM DRAIN STRUCTURE BUILT WITH LOS DIAMANTES, OFF-SITE UTILITIES, 10TH STREET PLANS.
- EXISTING SANITARY SEWER LIFT STATION BUILT WITH LOS DIAMANTES, OFF-SITE UTILITIES, PHASE 2B PLANS.
- NEW EXISTING 8" DR35 PVC SANITARY SEWER LINE BUILT WITH LOS DIAMANTES WESTSIDE BOULEVARD- LOS DIAMANTES DRIVE TO 10TH STREET PLANS.
- NEW EXISTING RCP III STORM DRAIN PIPE BUILT WITH LOS DIAMANTES WESTSIDE BOULEVARD- LOS DIAMANTES DRIVE TO 10TH STREET PLANS.

LEGEND

EX. 12" SAS	EXISTING SANITARY SEWER	NEW 8" WL	NEW WATERLINE
EX. 16" WL	EXISTING SANITARY MANHOLE	NEW 16" WL	NEW WATER LINE REDUCER
EX. 24" SD	EXISTING WATERLINE	NEW 24" SD	NEW DOUBLE WATER METER
EX. 36" SD	EXISTING GATE VALVE	NEW 36" SD	NEW SINGLE WATER METER
EX. 48" SD	EXISTING FIRE HYDRANT	NEW 48" SD	NEW FIRE HYDRANT
EX. 60" SD	EXISTING STORM DRAIN	NEW 60" SD	NEW PRESSURE REDUCING STATION
EX. 72" SD	EXISTING STORM DRAIN MANHOLE	NEW 72" SD	NEW BUTTERFLY VALVE
EX. 84" SD	FUTURE PHASE SANITARY SEWER	NEW 84" SD	NEW GATE VALVE
EX. 96" SD	FUTURE PHASE WATERLINE	NEW 96" SD	NEW STORM DRAIN
EX. 108" SD	FUTURE PHASE STORM DRAIN	NEW 108" SD	NEW STORM DRAIN MANHOLE
EX. 120" SD	NEW SANITARY SEWER		
EX. 132" SD	NEW SANITARY MANHOLE		
EX. 144" SD	NEW SANITARY SEWER SERVICE		

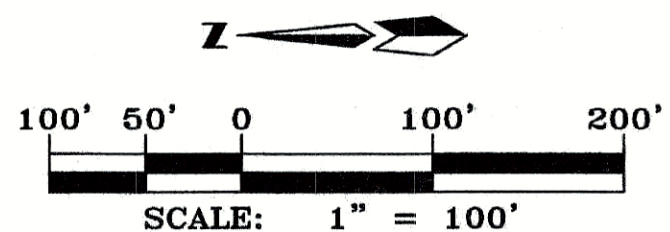
GENERAL NOTES:

- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF RIO RANCHO TO LOCATE THE WESTSIDE 20" WATERLINE CONNECTION AND ADDITIONALLY HAVE UTILITIES IN THE AREA LOCATED AND/OR THE AREA OF WORK CLEARED VIA THE NM ONE CALL SYSTEM.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES THAT ARE TO BE CONNECTED TO. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF CONNECTION ELEVATIONS AND LOCATIONS DIFFER FROM THESE PLANS.
- 4" TO 14" WATERLINE SHALL BE DR25 C900 PVC, UNLESS NOTED OTHERWISE. NEW 16" WATERLINE SHALL BE PRESSURE CLASS 250 DUCTILE IRON.
- WORK INCLUDING TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH OSHA RULES AND REGULATIONS.

VALVE SHUT-OFF PLAN

- CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, SEVEN (7) DAYS PRIOR TO NECESSARY SHUT-OFF.
- VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES SEE THIS SHEET FOR VALVE NUMBERS & LOCATIONS.
- FOR NON-PRESSURE CONNECTION #1, LOCATED SOUTH OF THE INTERSECTION OF WESTSIDE BLVD S.E. & 10TH STREET S.E., SHUT OFF EXISTING GATE VALVE "A".

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City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)	
NO.	DESCRIPTION
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OWNER/DEVELOPER
LD DEVELOPMENT, LLC

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 10008
ALBUQUERQUE, NM 87108
(505) 263-2200, FAX (505) 263-9539

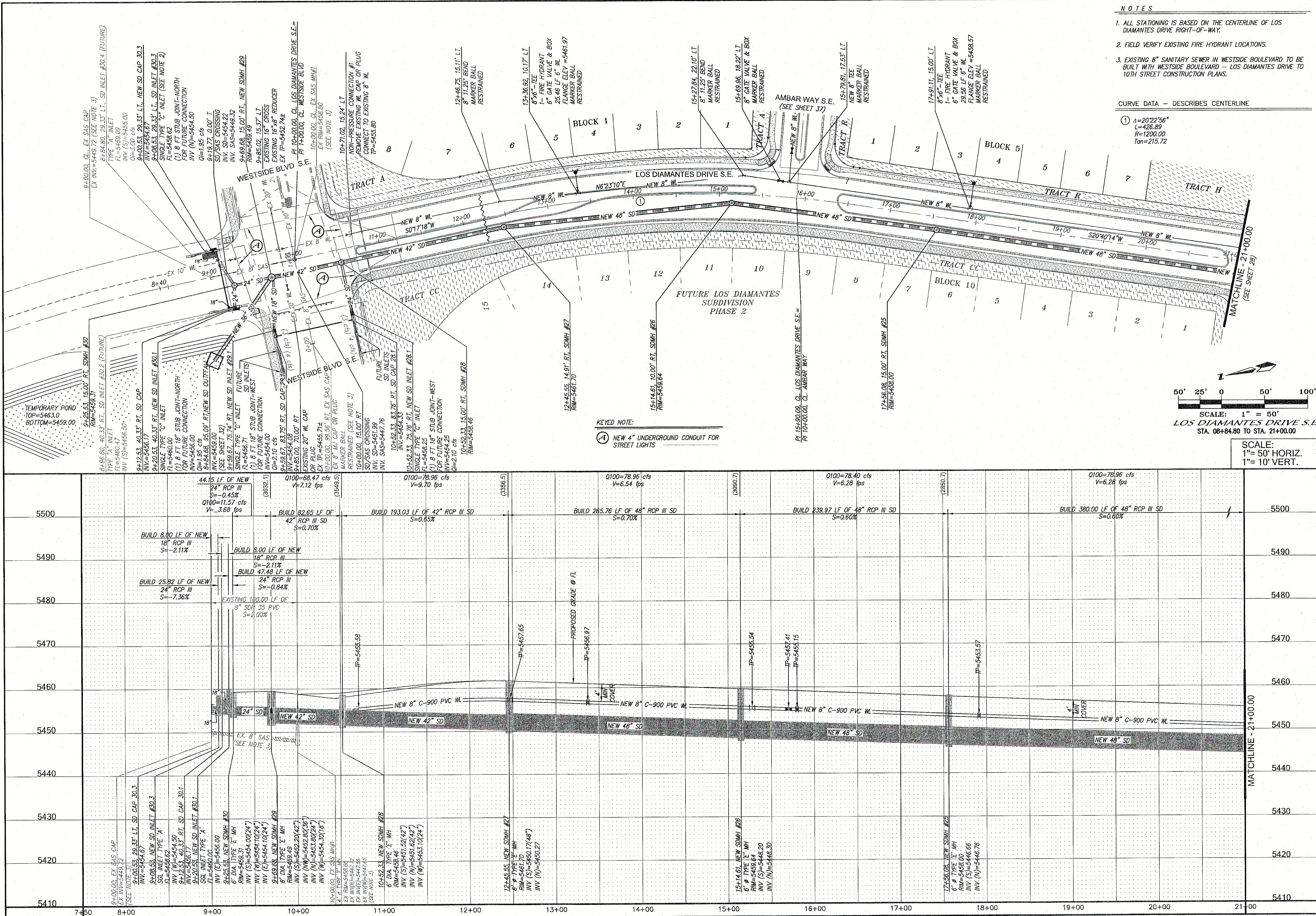
LOS DIAMANTES RESIDENTIAL
PHASE 1

MASTER UTILITY PLAN

ENGINEER'S SEAL



PROJECT NO. A18026
DESIGNED BY: HLC
DRAWN BY: DER
CHECKED BY: DMG
DATE: 12/2/20
DPW CHK:
SHEET:

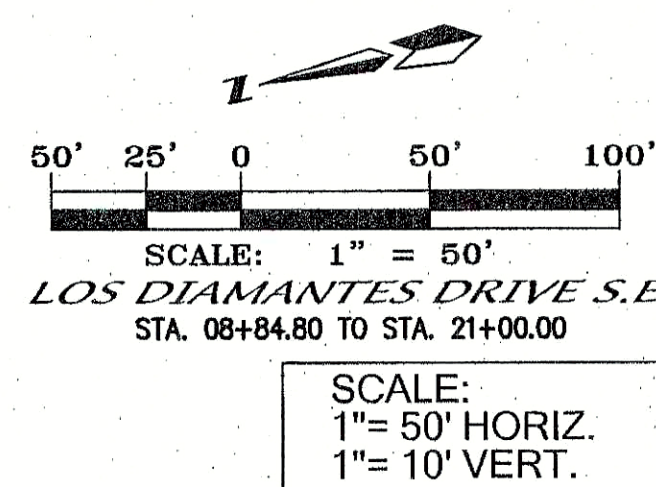


NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF LOS DIAMANTES DRIVE RIGHT-OF-WAY.
2. FIELD VERIFY EXISTING FIRE HYDRANT LOCATIONS.
3. EXISTING 8" SANITARY SEWER IN WESTSIDE BOULEVARD TO BE BUILT WITH WESTSIDE BOULEVARD - LOS DIAMANTES DRIVE TO 10TH STREET CONSTRUCTION PLANS.

CURVE DATA - DESCRIBES CENTERLINE

① $\Delta=20'22''56"$
 $L=426.89$
 $R=1200.00$
 $Tan=215.72$





City of Rio Rancho

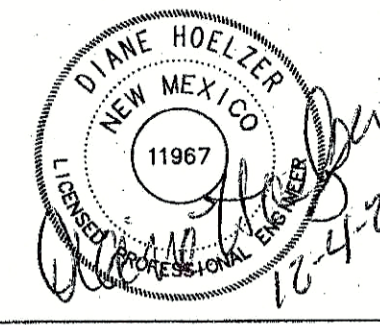
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REVISIONS (OR CHANGE NOTICES)

OWNER/DEVELOPER
LD DEVELOPMENT, LLC

LOS DIAMANTES SUBDIVISION
PHASE 1

LOS DIAMANTES DRIVE S.E.
UTILITY PLAN & PROFILE
STA. 10+00.00 TO 21+00.00



ENGINEER'S SEAL

PROJECT NO. A18026

DESIGNED BY: HLC

DRAWN BY: DER

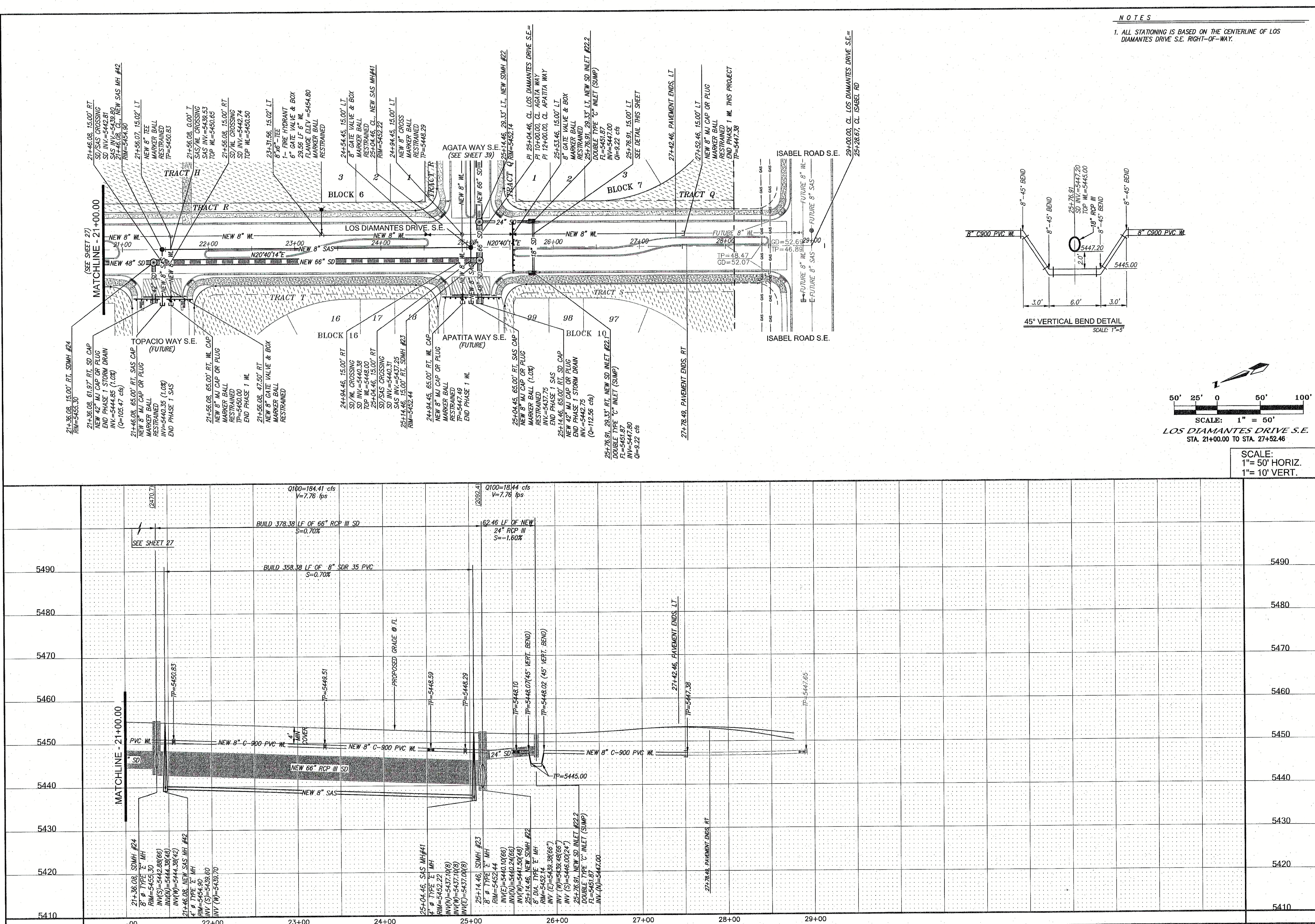
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DATE: 10/20

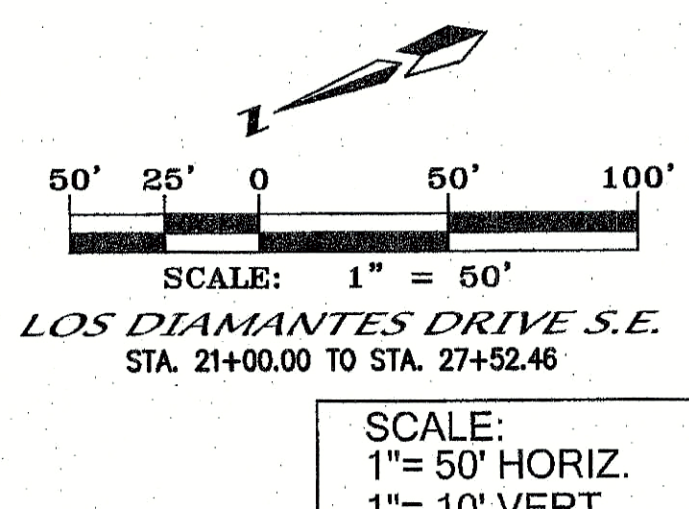
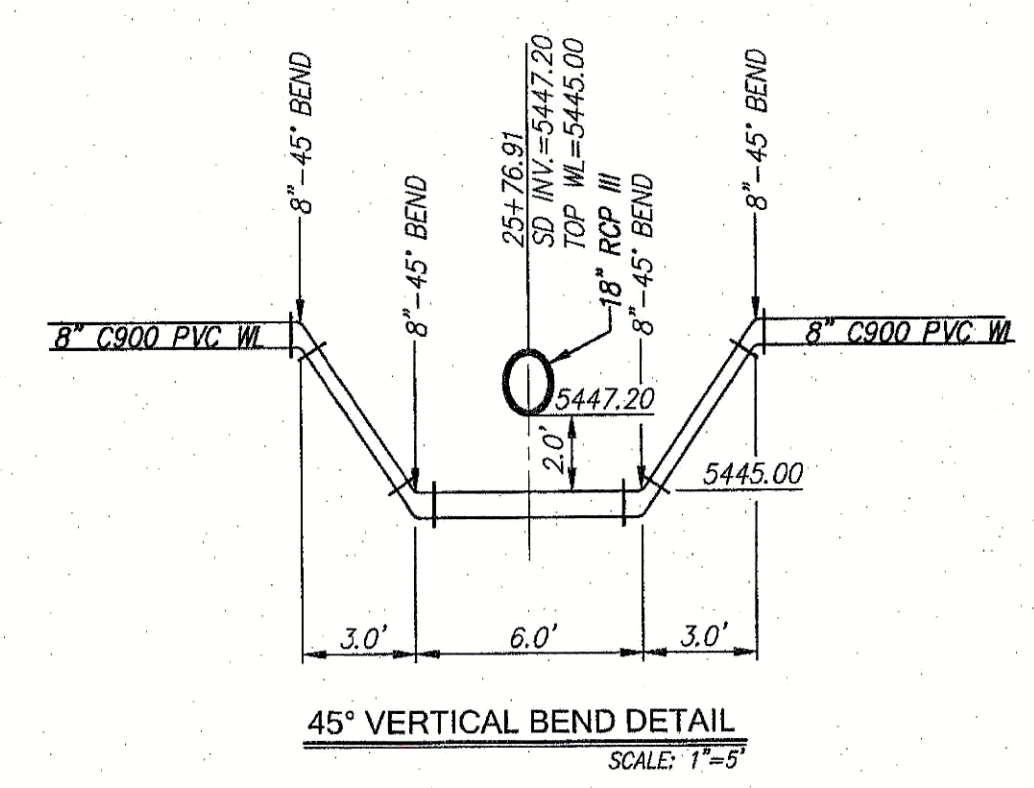
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SHEET: DE

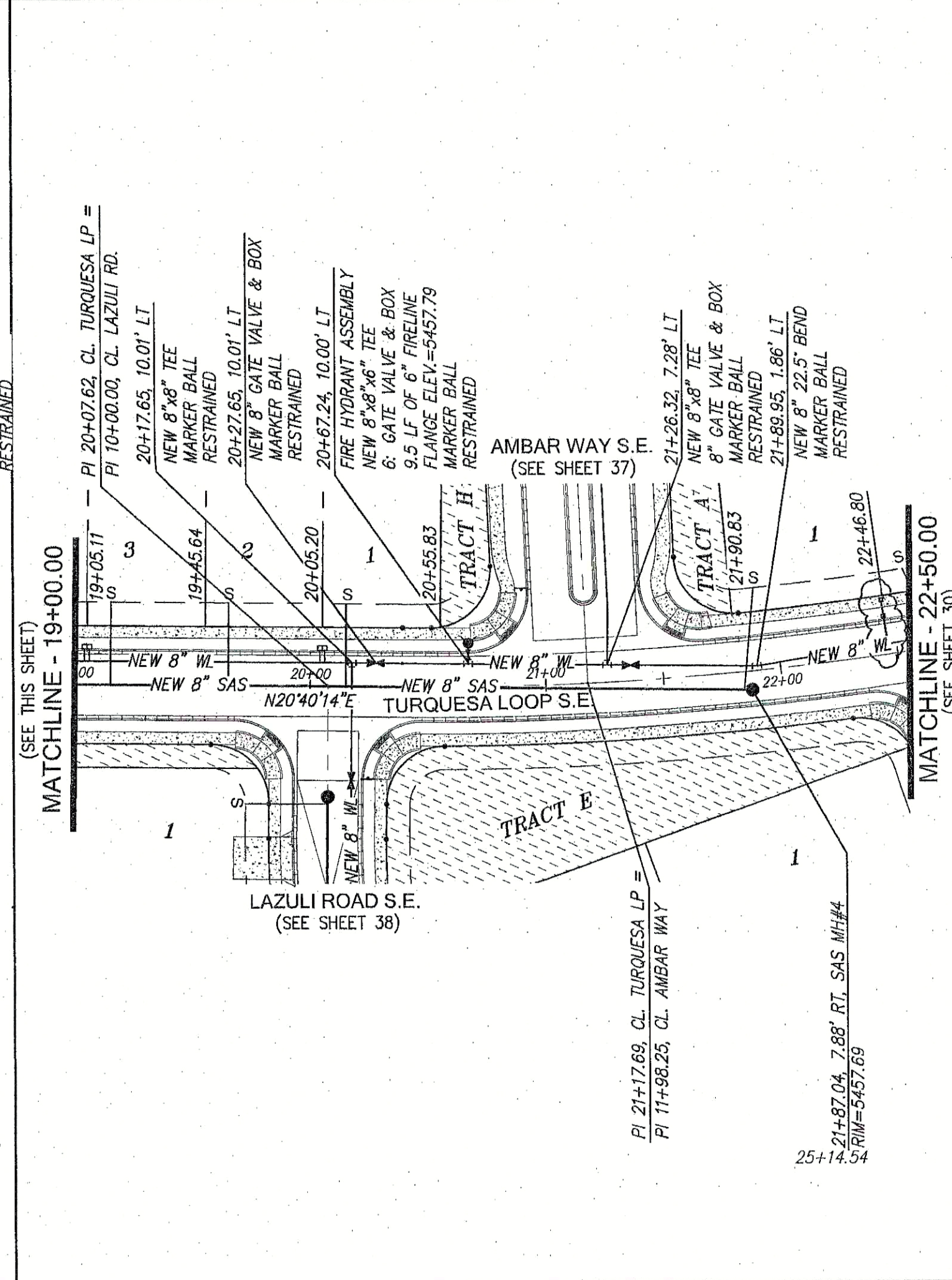
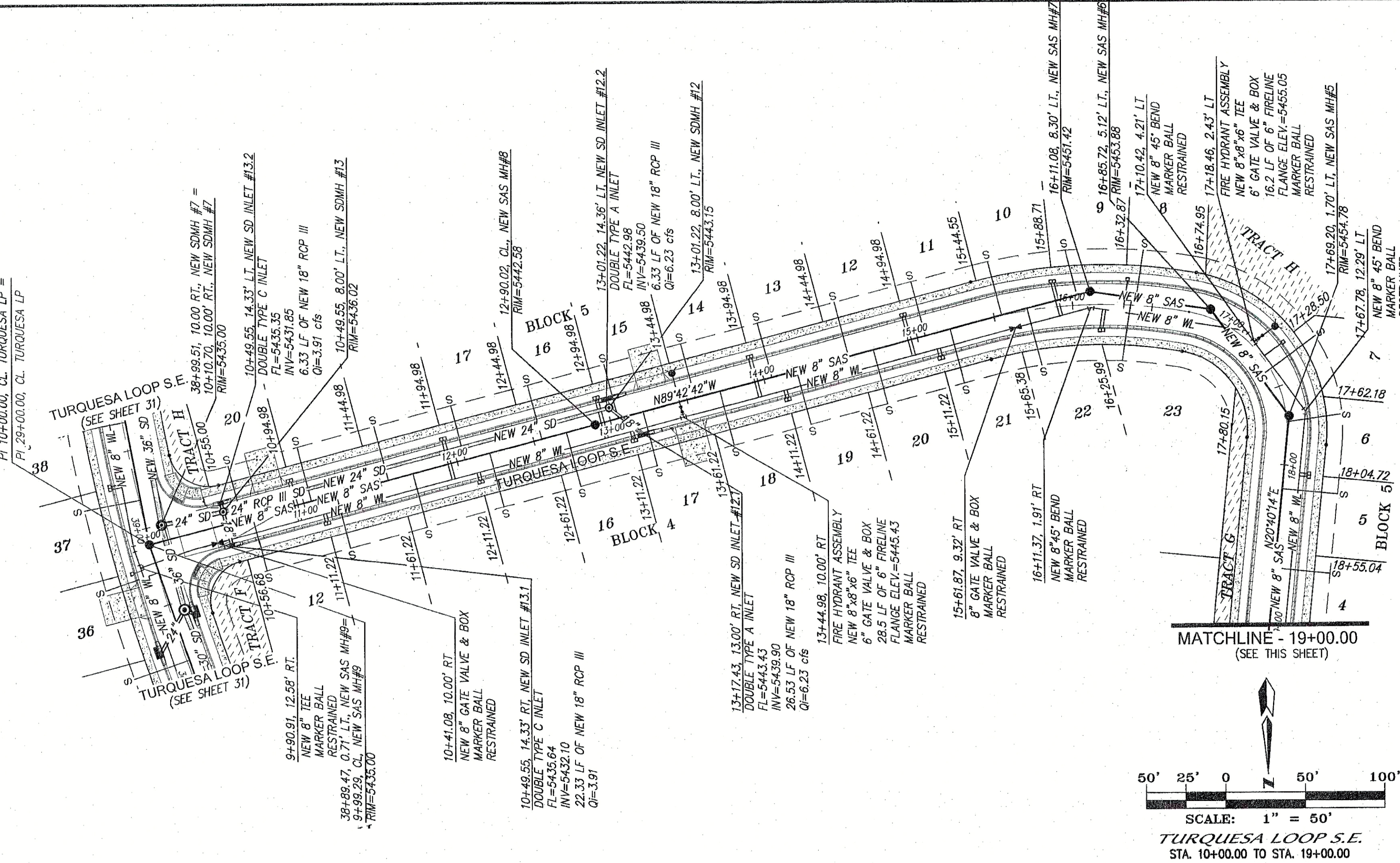
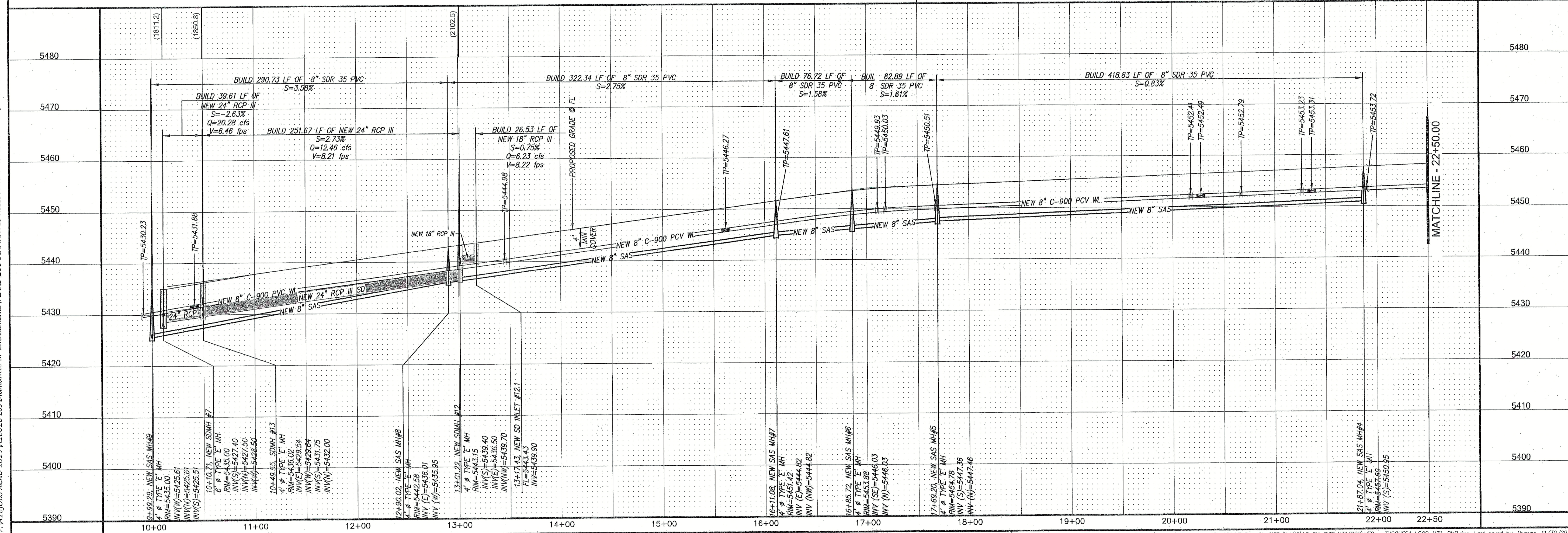
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NOTES
1. ALL STATIONING IS BASED ON THE CENTERLINE OF LOS DIAMANTES DRIVE S.E. RIGHT-OF-WAY.



 City of Rio Rancho	
REVISIONS (OR CHANGE NOTICES)	
NO.	DESCRIPTION
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OWNER/DEVELOPER LD DEVELOPMENT, LLC	
LOS DIAMANTES SUBDIVISION PHASE 1	
LOS DIAMANTES DRIVE S.E. UTILITY PLAN & PROFILE STA. 21+00.00 TO 29+15.00	
ENGINEER'S SEAL 	
PROJECT NO. A18026	
DESIGNED BY: HLC	
DRAWN BY: DER	
CHECKED BY: DMG	
DATE: 10/20	
DPW CHK:	
SHEET: DE	
28 of 60	



NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF TURQUESA LOOP S.E. RIGHT-OF-WAY.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT P.L.	INV. ELEV. AT P.L.	LENGTH AT P.L.
1	1	21+91.70	5452.73	43.25'
4	12	10+66.68	5431.67	35.00'
4	13	11+21.22	5433.34	35.00'
4	14	11+71.22	5434.69	35.00'
4	15	12+21.22	5436.04	35.00'
4	16	12+71.22	5437.38	35.00'
4	17	13+21.22	5438.73	35.00'
4	18	13+71.22	5440.08	35.00'
4	19	14+21.22	5441.43	35.00'
4	20	14+71.22	5442.78	35.00'
4	21	15+21.22	5444.13	35.00'
4	22	15+75.24	5445.59	36.69'
4	23	16+32.72	5447.14	39.95'
5	1	20+15.04	5451.39	35.00'
5	2	19+65.04	5451.01	35.00'
5	3	19+15.04	5450.63	35.00'
5	4	18+65.04	5450.25	35.00'
5	5	18+15.04	5449.87	35.00'
5	6	17+71.12	5449.54	32.76'
5	7	17+35.32	5449.24	43.22'
5	8	16+41.82	5447.38	30.58'
5	9	15+97.67	5446.19	29.11'
5	10	15+53.51	5445.00	35.00'
5	11	15+05.09	5443.70	35.00'
5	12	14+55.09	5442.35	35.00'
5	13	14+05.09	5441.00	35.00'
5	14	13+55.09	5439.65	35.00'
5	15	13+05.09	5438.30	35.00'
5	16	12+55.09	5436.95	35.00'
5	17	12+05.09	5435.60	35.00'
5	18	11+55.09	5434.25	35.00'
5	19	11+04.98	5432.90	35.00'
5	20	10+59.98	5431.46	35.00'

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

OWNER/DEVELOPER
LD DEVELOPMENT, LLC

LOS DIAMANTES SUBDIVISION
PHASE 1

TURQUESA LOOP S.E.
UTILITY PLAN & PROFILE
STA. 10+00.00 TO 22+50.00

ENGINEER'S SEAL
DIANE HOELER
NEW MEXICO
11987

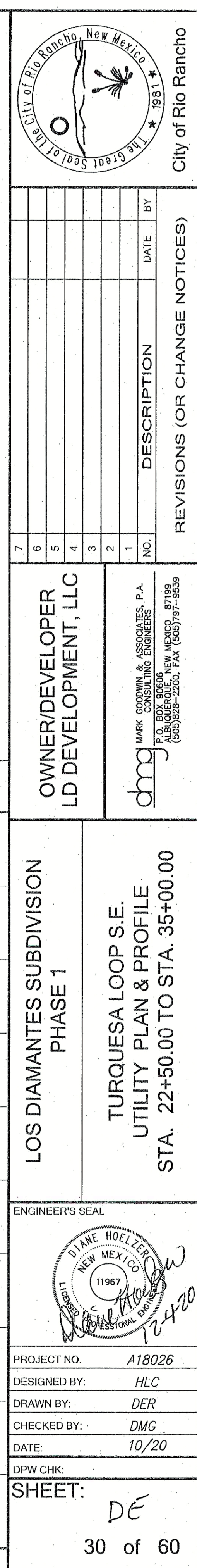
PROJECT NO. A18026
DESIGNED BY: HLC
DRAWN BY: DER
CHECKED BY: DMG
DATE: 10/20
DPW CHK:
SHEET: DE
29 of 60

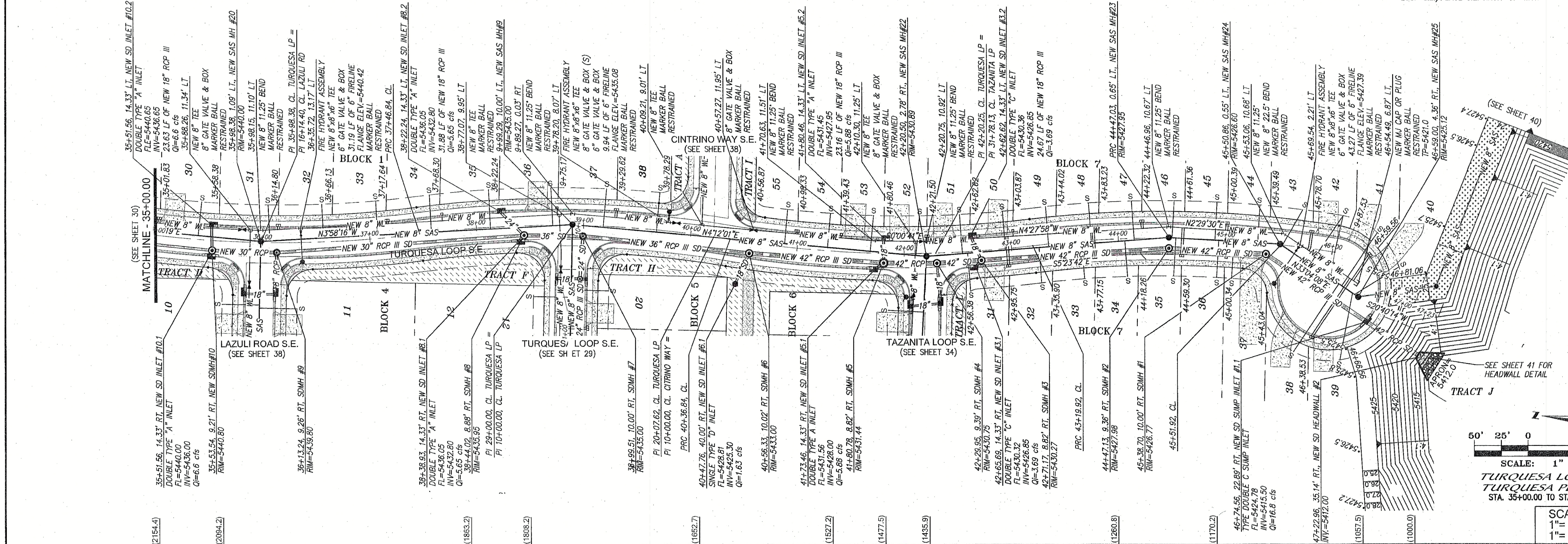
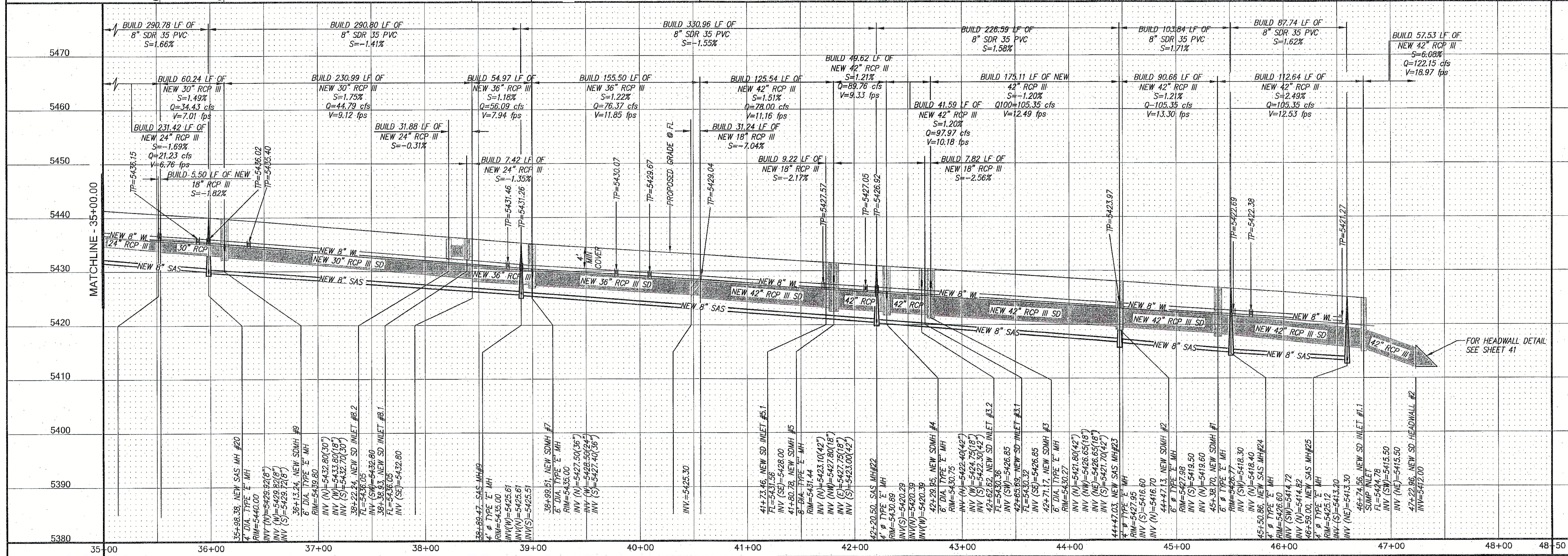
City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)

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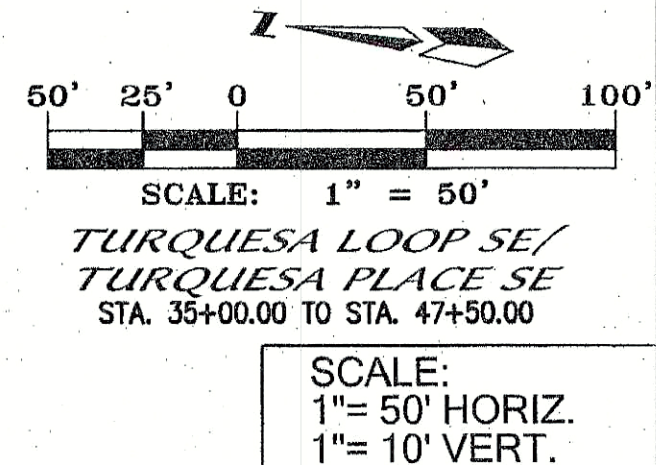
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90808
NEW MEXICO, NEW MEXICO 87148
(505) 262-0000, FAX (505) 797-7839





NOTE: FOR SANITARY SEWER SERVICE INVERT TABLE PERTAINING TO THIS SHEET, SEE SHEET 36.

NOTES
1. ALL STATIONING IS BASED ON THE CENTERLINE OF TURQUESA LOOP S.E./PLACE S.E. RIGHT-OF-WAY.





City of Rio Rancho

NO.	DESCRIPTION	DATE	BY
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OWNER/DEVELOPER
LD DEVELOPMENT, LLC

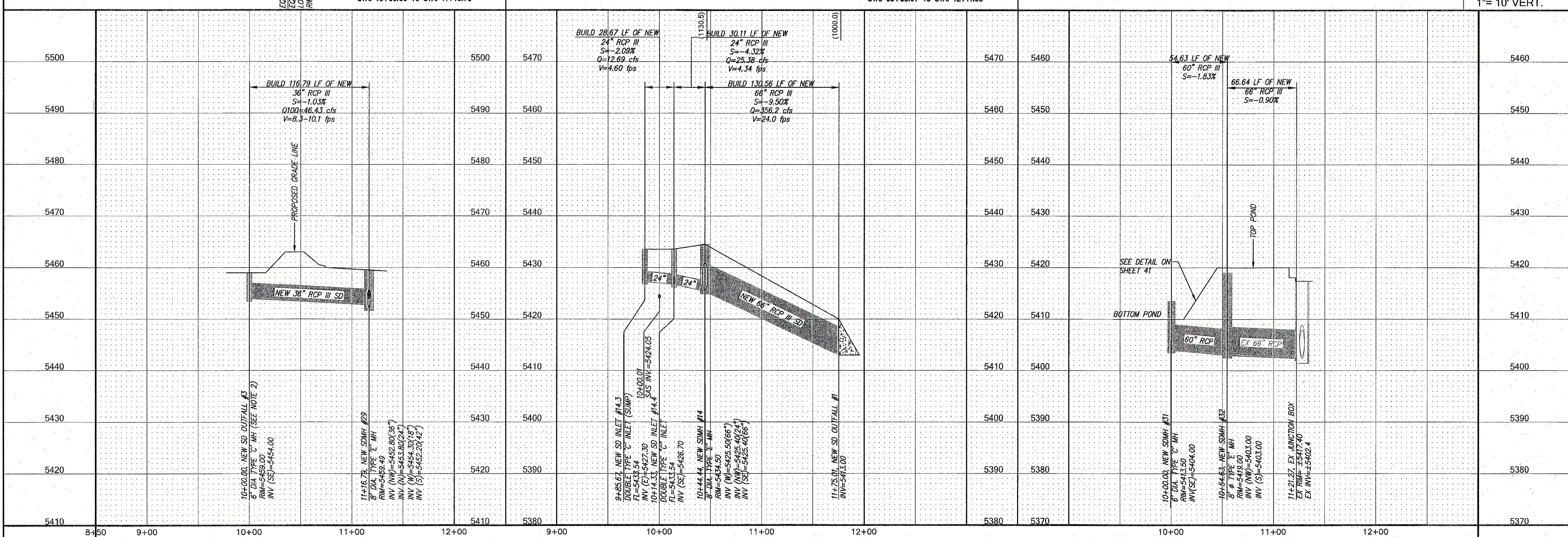
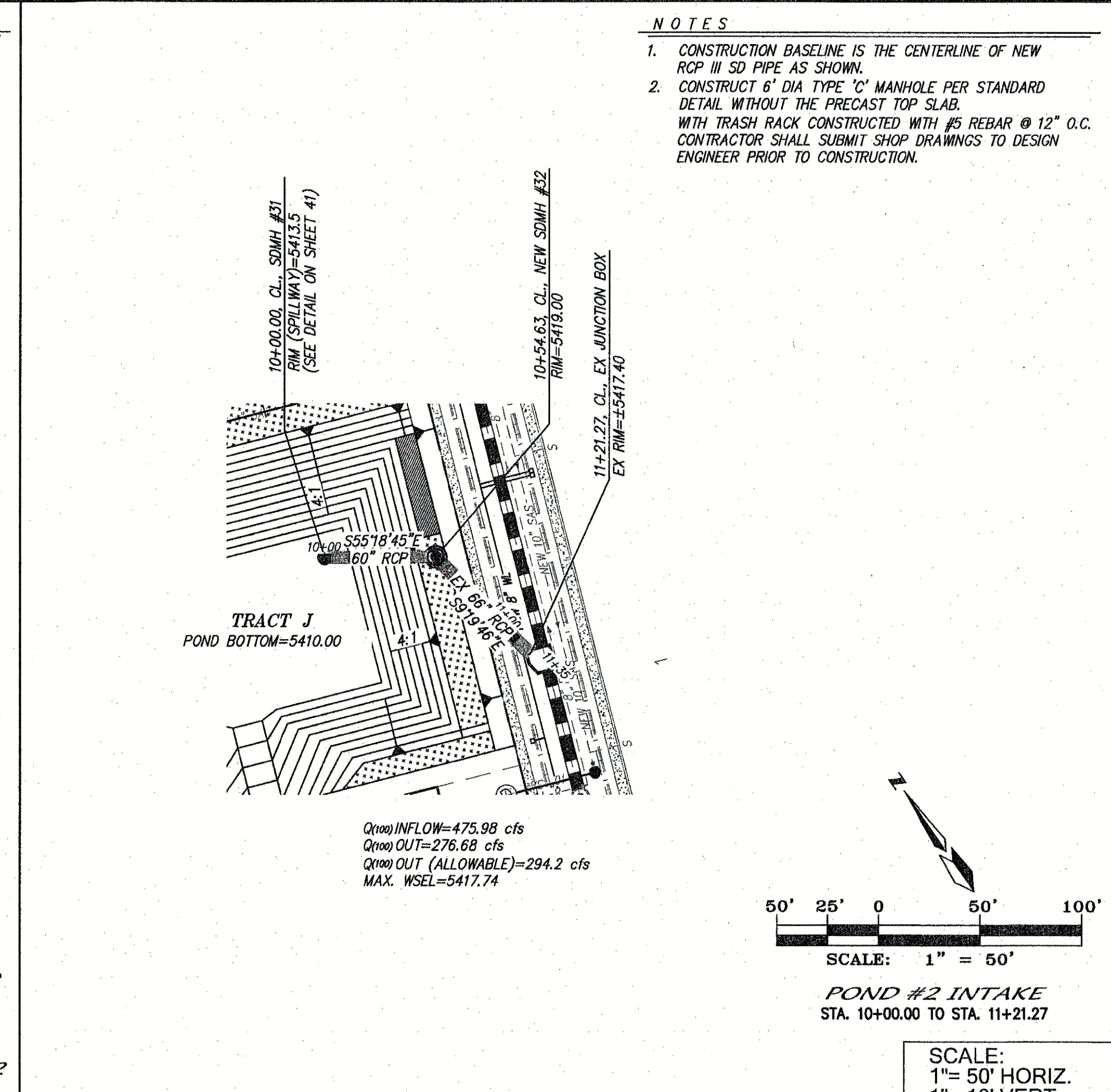
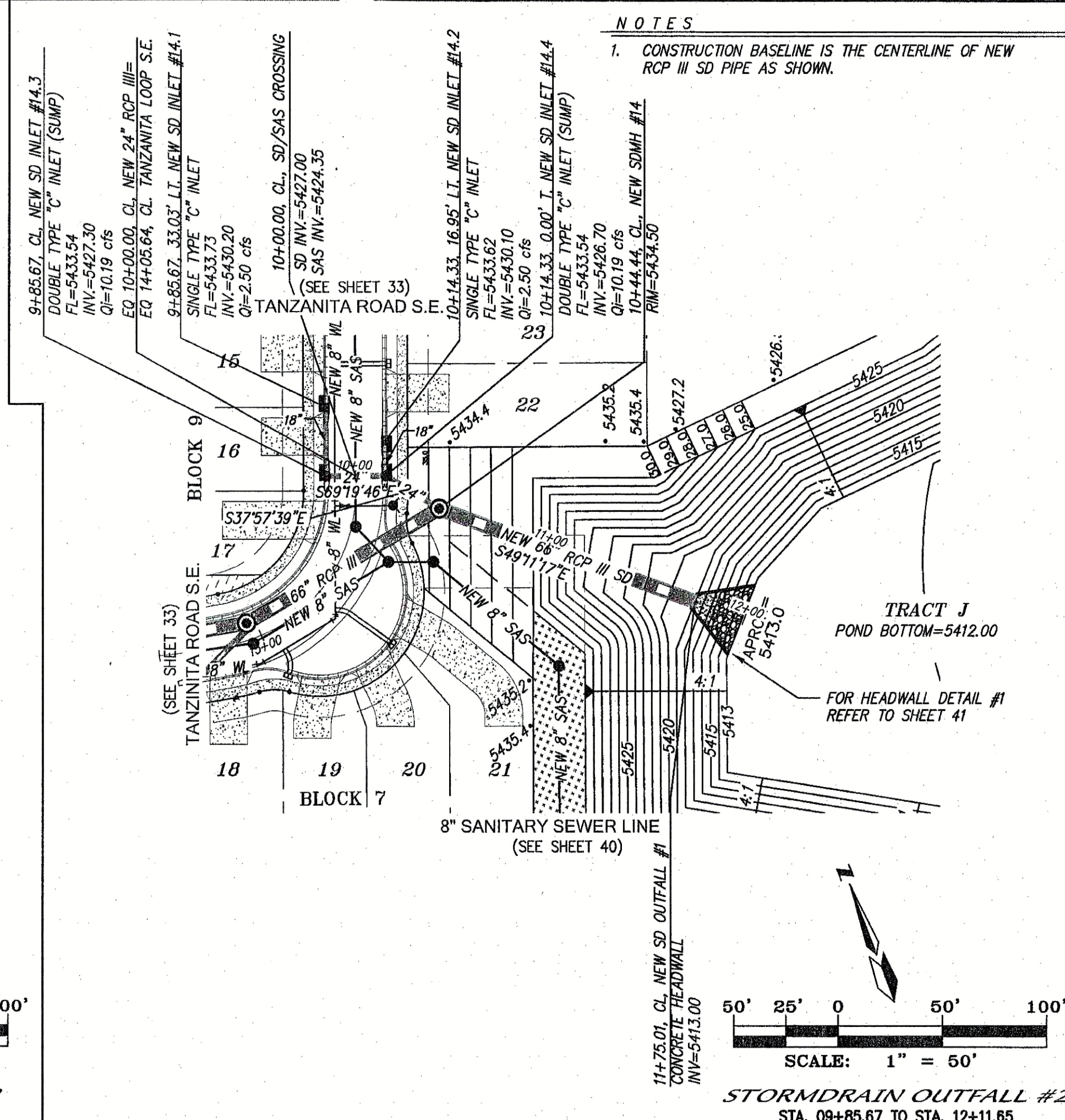
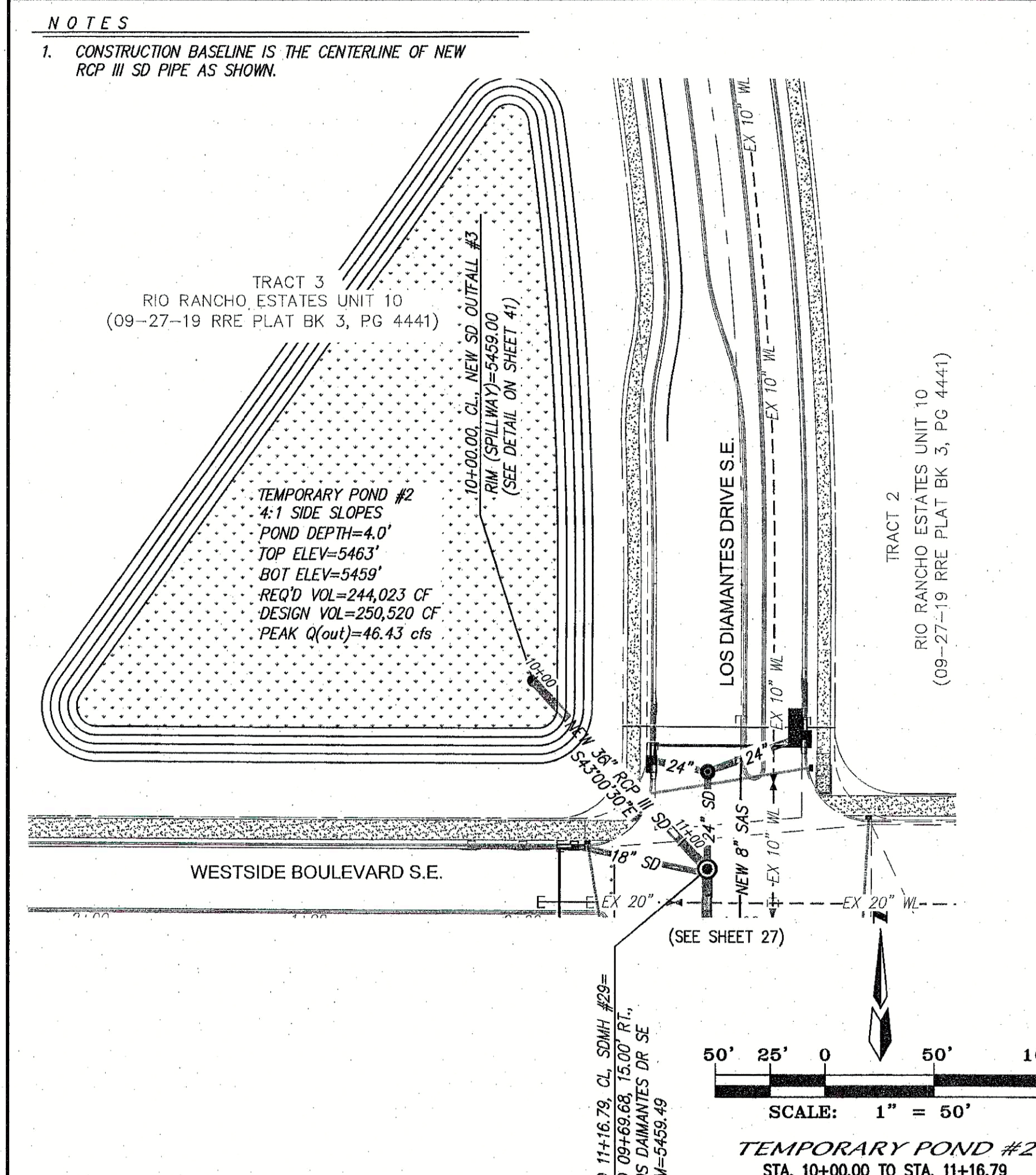
LOS DIAMANTES SUBDIVISION
PHASE 1

ENGINEER'S SEAL

PROJECT NO. A18026
DESIGNED BY: HLC
DRAWN BY: DER
CHECKED BY: DMG
DATE: 10/20
DPWF CHK:
SHEET: DE

REVISIONS (OR CHANGE NOTICES)

31 of 60



City of Rio Rancho

OWNER/DEVELOPER
LD DEVELOPMENT, LLC

ENGINEER'S SEAL
D. MARK HOELTZER
NEW MEXICO
11967
PROFESSIONAL ENGINEER

PROJECT NO. A18026
DESIGNED BY: HLC
DRAWN BY: DER
CHECKED BY: DMG
DATE: 11/20
DPW CHK:

**LOS DIAMANTES SUBDIVISION
PHASE 1**

**TEMPORARY POND #2 & TRACT J
STORM OUTFALL
UTILITY PLAN & PROFILE**

REVISIONS (OR CHANGE NOTICES)

NO.	DESCRIPTION	DATE	BY
1			
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SHEET: DE
32 of 60

CURVE DATA -- DESCRIBES CENTERLINE

① $\Delta=1154'50"$
 $L=72.78$
 $R=350.00$
 $Tan=36.52$

NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF KUNZITA STREET S.E. RIGHT-OF-WAY.

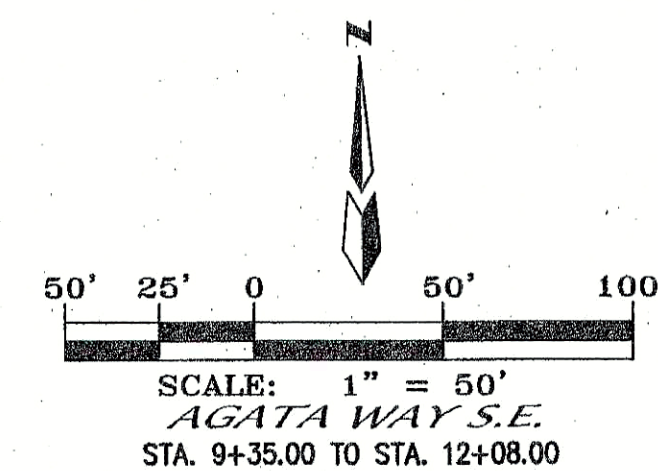
NOTES

1. ALL STATIONING IS BASED ON THE CENTERLINE OF AGATA WAY S.E. RIGHT-OF-WAY.



City of Rio Rancho

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT P.L.	INV. ELEV. AT P.L.	LENGTH AT P.L.
8	8	12+95.45	5438.84	34.97'
8	9	12+55.00	5438.72	35.00'
8	10	12+15.00	5438.24	35.00'
8	11	11+75.00	5437.75	35.00'
8	12	11+35.00	5437.26	35.00'
8	13	10+95.00	5436.12	35.00'
8	14	10+45.00	5435.81	35.00'
9	1	10+45.00	5435.81	35.00'
9	2	10+85.00	5436.56	35.00'
9	3	11+25.00	5437.14	35.00'
9	4	11+65.00	5437.63	35.00'
9	5	12+05.00	5438.11	35.00'
9	6	12+45.00	5438.60	35.00'
9	7	12+85.00	5438.87	35.00'
9	8	13+21.95	5438.59	33.50'



OWNER/DEVELOPER
LD DEVELOPMENT, LLC

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LOS DIAMANTES SUBDIVISION
PHASE 1

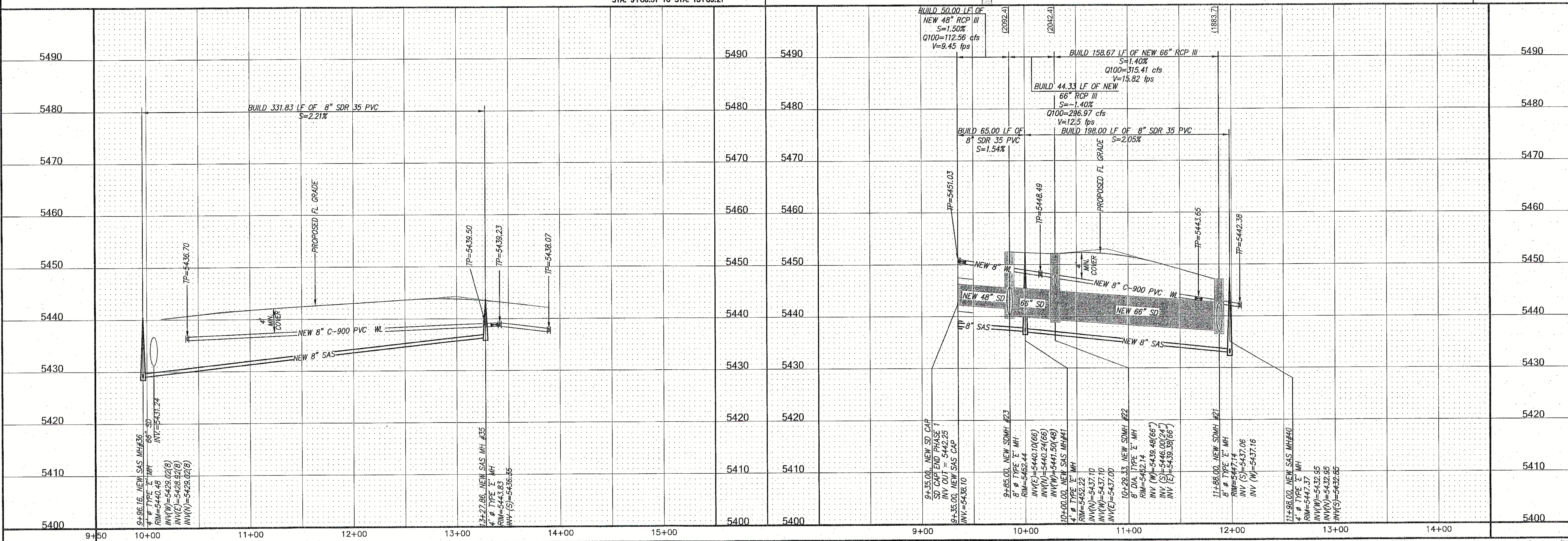
KUNZITA ST. S.E.
STA. 9+75.00 TO 14+07.00
AGATA WAY S.E.
STA. 9+57.00 TO 12+23.00
UTILITY PLAN & PROFILE

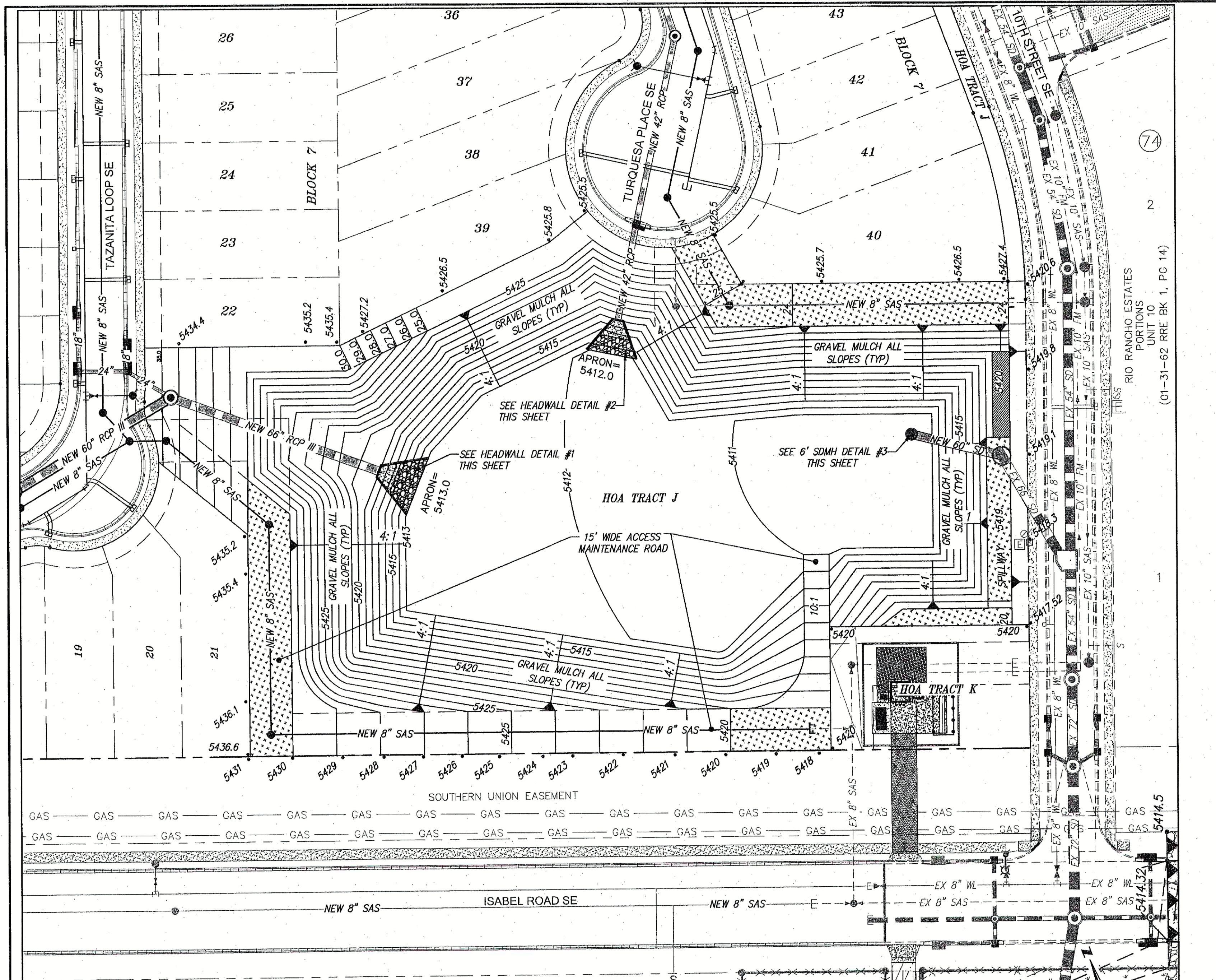
ENGINEER'S SEAL



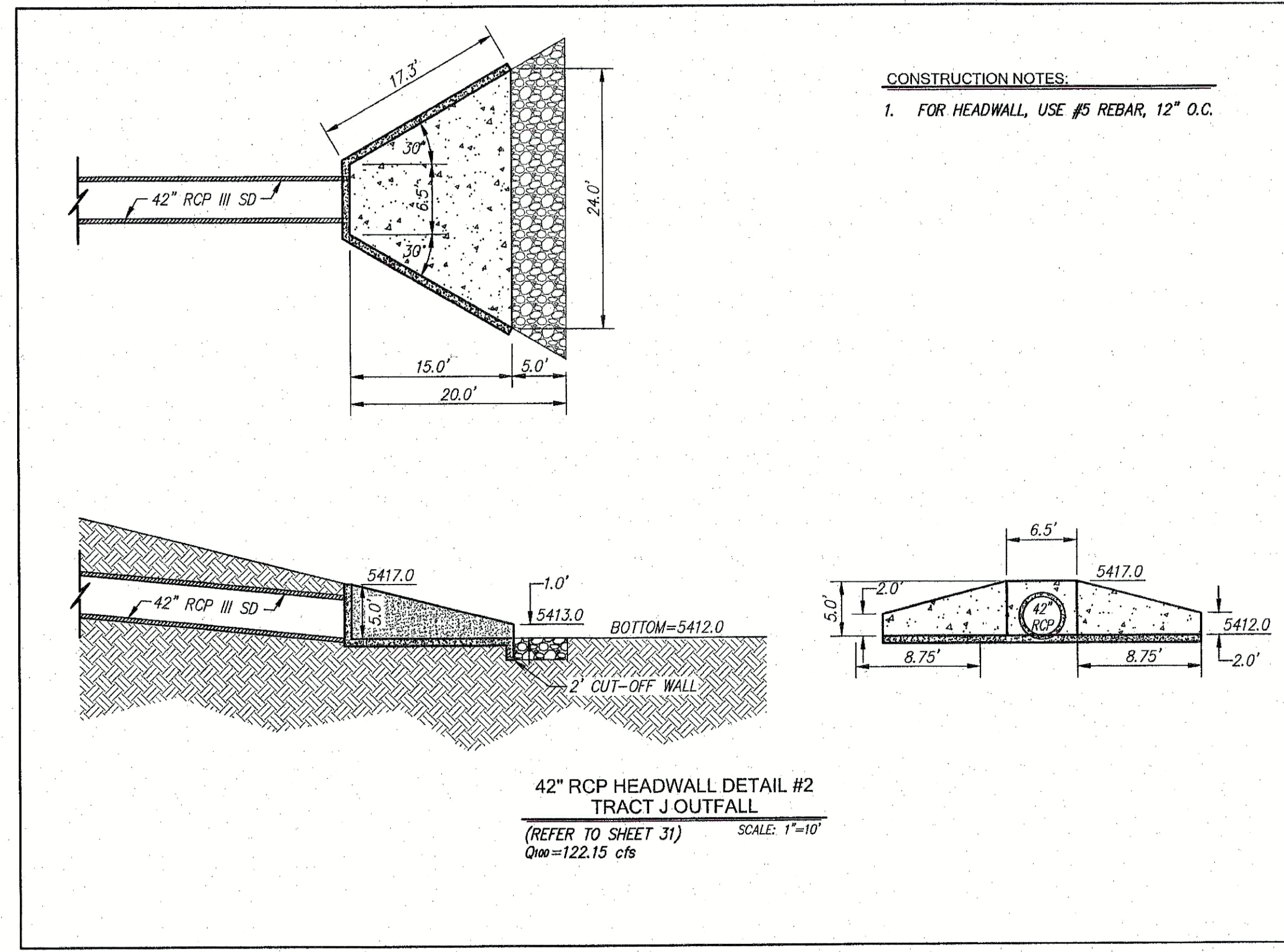
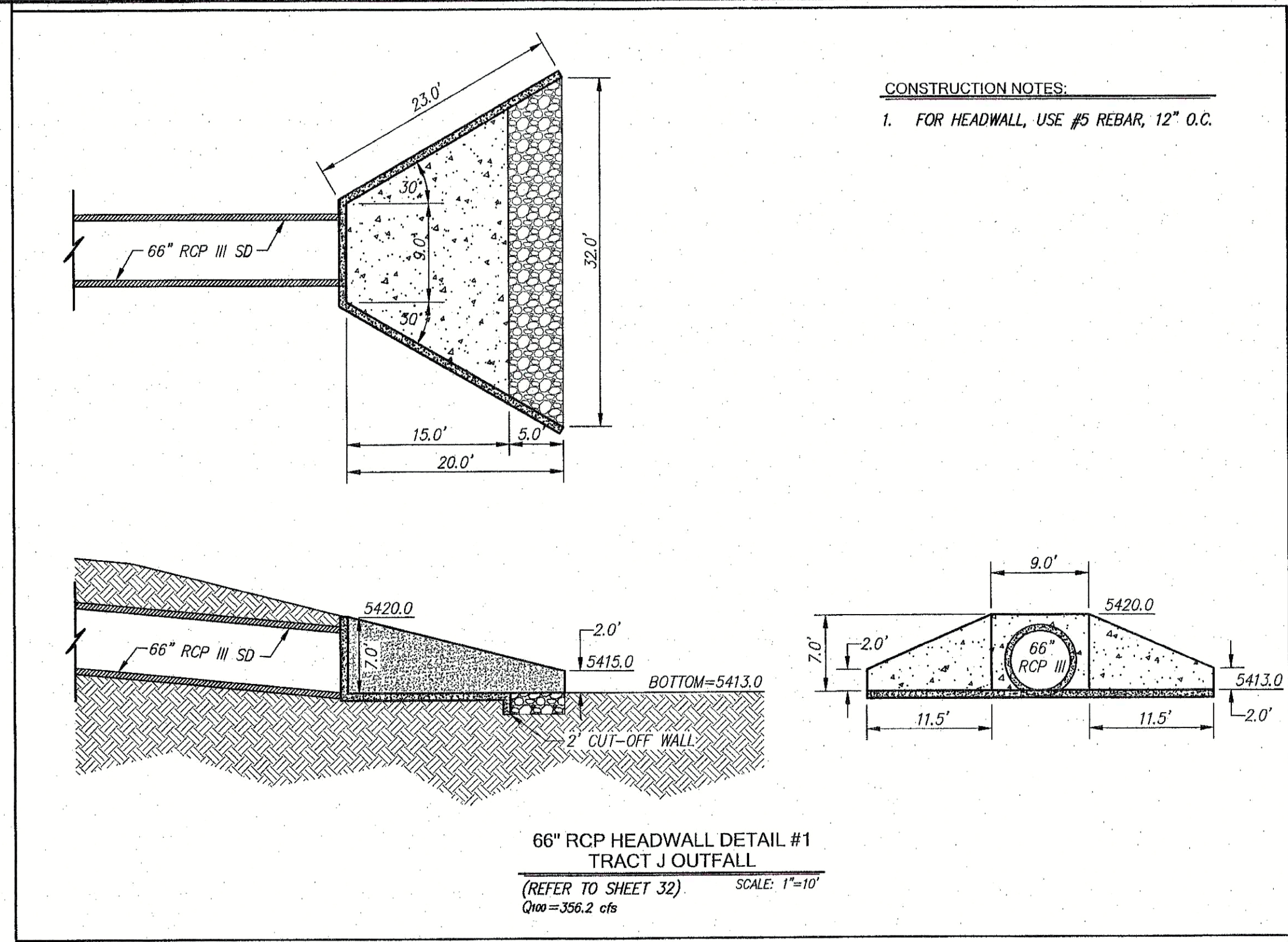
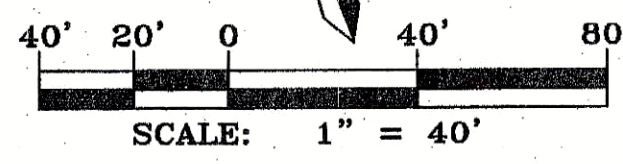
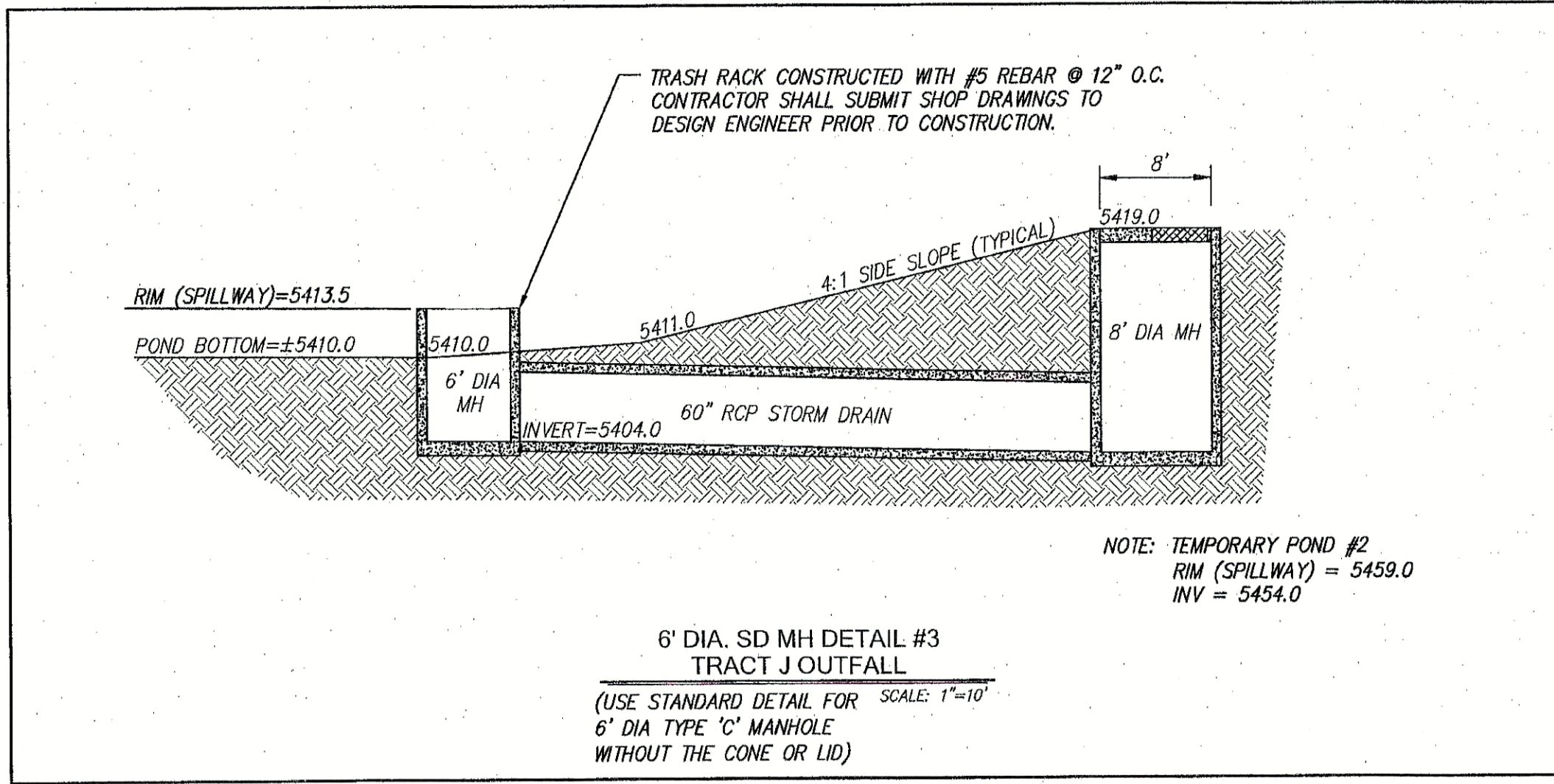
PROJECT NO. A18026
DESIGNED BY: HLC
DRAWN BY: DER
CHECKED BY: DMG
DATE: 11/19

DPW CHK:
SHEET: 39 of 60





TRACT J OUTFALL DETAIL
(REFER TO SHEETS 31 & 32) SCALE: 1"=40'





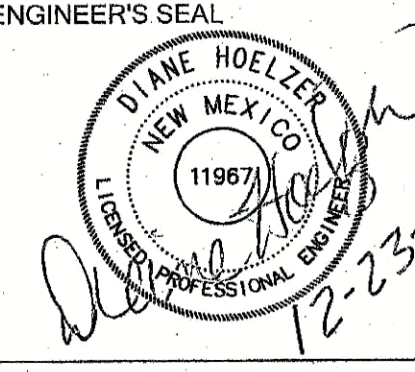
City of Rio Rancho

REVISIONS (OR CHANGE NOTICES)	
NO.	DESCRIPTION

OWNER/DEVELOPER
LD DEVELOPMENT, LLC

LOS DIAMANTES RESIDENTIAL
PHASE 1

ENGINEER'S SEAL



TRACT J - POND DETAIL

PROJECT NO. A18026

DESIGNED BY: HLC

DRAWN BY: DER

CHECKED BY: DMG

DATE: 12/3/20

DPW CHK:

SHEET: DE

41 of 60