

ADDENDUM #4

April 1, 2016

To: Bid Holders

This Addendum forms a part of the Request for Bid documents and modifies the original Request for Bids issued March 8, 2016. Acknowledge receipt of this Addendum in the space provided on the Bid Form. All other provisions of the Request for Bid documents shall remain unchanged unless expressly noted in this Addendum.

1. **QUESTION:** Sheet 5-28 of the plans shows a note that reads 10" Cast-in-place Concrete Facing Wall with Formliner. Is the intent of the form liner to go from the top of the acequia to the top of the wall and run the entire length of the wall or is the "dashed line" in the drawing showing where the form liner goes? Also does this liner only apply and become part of construction only if the Bid Alternative No 2 is chosen to be awarded?

RESPONSE: The formliner finish is on all pile supported cast-in-place concrete walls and on the concrete plinth as well. Within the underpass, the top of the formliner, with a torn edge, shall be as shown on sheet A-01, and extends about 5'-6" to 6'-6" above the trail grade. It shall extend a minimum of one foot below lowest adjacent grade (or top of porphyry lined drainage ditch). On the headwalls outside of the underpass, the formliner extends from the top of wall to one foot below lowest adjacent grade. See also the response to question 27 in Addendum #3. The special surface finish specified on Sheet 5-1 includes the formliner finishes and shall be included in the Base Bid.
2. **QUESTION:** Sheet 5-28 also shows what appears to be bricks or paving stones that make up the acequia. What is this item (is there a detail in the plans) and which bid item does it correspond with?

RESPONSE: This stone paving is the porphyry as shown on Sheets L-13 and L-14 and other Landscaping Sheets. The payment for the porphyry is to be included under Item No. 664000 - Landscape Complete. See also the response to question 27 in Addendum #3.
3. **QUESTION:** According to the invitation to bid I must apply to be a prospective bidder and will get one set of plan drawings, specifications and contract documents. How/where do I submit an application to be a prospective bidder?

RESPONSE: Attendance at the "Mandatory" Pre-Bid Conference held on Tuesday, March 15, 2016 was a requirement in order to qualify to be a prospective bidder. No other application is required.
4. **QUESTION:** Does the "One Copy" of our bid submittal as called out on page 37 of the contract documents need to be a complete set of contract documents, which pages are required for this and which pages can we leave out, if any?

RESPONSE: In order to successfully offer a bid, the following documents are required to be completed and submitted as part of the associative bid package:

- a. Complete Bid Form (Section B.3 of the Contract Book) – **SUBMIT ONE ORIGINAL AND ONE COPY OF THE FORM ONLY!**
 - b. Bid Bond (Section B.4 of the Contract Book)
 - c. Subcontractor's Listing (Section B.5 of the Contract Book)
 - d. Non-Debarment Certification (Disclosure of Lobbying Activities (Section B.6 of the Contract Book; Sign the form below the phrase "I acknowledge")
 - e. New Mexico Pay Equity Reporting Acknowledgement Executive Order 2009-049 (Section B.7 of the Contract Book; Sign the form below the phrase "I acknowledge")
 - f. Subcontractors Fair Practices Act Compliance (Section B.8 of the Contract Book)
 - g. Notice(s) to Contractor:
 - Landscape Complete Itemized Listing
 - Artwork Complete Itemized Listing
 - Miscellaneous Landscaping Itemized Listing
 - Erector Qualifications (To be submitted in a separate sealed envelope)
 - Return of Lobbying Disclosure (The Disclosure of Lobbying Activities Form – "Certification for Federal-Aid Contracts")
5. **QUESTION:** What color and pattern is to be used for Item No. 608406 Concrete Median Pavement 6" (Colored and Patterned)?
RESPONSE: The intended color and pattern shall match the color and pattern of the existing raised median at St. Francis Dr.
6. **QUESTION:** We are unable to find with any assurance 5-gallon Pinion Pine. The smallest size we can reliably get would be 4.5'. Is this an acceptable change?
RESPONSE: Yes
7. **QUESTION:** What constitutes a Sponge Tree?
RESPONSE: For bidding purposes, ornamental trees shall be considered "New Mexico Privet" identified in the plant material schedule shown on Sheets L-20 and L-21 of the plans.
8. **QUESTION:** What constitutes an Ornamental Tree?
RESPONSE: For bidding purposes, ornamental trees shall be considered "Common Hackberry" identified in the plant material schedule shown on Sheets L-20 and L-21 of the plans.
9. **QUESTION:** Are character boulders acceptable for the 24x24x40 boulders? That is to say, can irregular boulders be used? Additionally, can the size of the 24x24x40 boulders vary and if so to what degree?
RESPONSE: Yes to all. Boulder size should reasonably represent the size or volume as the specified size but can vary in exact proportions.
10. **QUESTION:** Is there a specification for the soil amendments for the recycled concrete pads / path?

RESPONSE: See seeding specification on Sheet L-19 to be placed in the gaps between concrete.

11. **QUESTION:** Is it necessary to use compacted base course under the recycled concrete or just the amended soil?

RESPONSE: It is necessary to use compacted base course under the recycled concrete.

12. **QUESTION:** I have not been able to locate the specifications for the 'Split Faced Stones' for the tree rings. Could you please clarify this?

RESPONSE: For bidding purposes, the split face stones for tree rings shall be akin to Photo "H", shown on Sheets L-10A and L-10B.

13. **QUESTION:** I can not locate the specifications/details for the Dry Stacked Check Dam (LF10). Can you please clarify this?

RESPONSE: For bidding purposes, the Dry Stacked Check Dam shall be akin to Photo "H", shown on Sheets L-10A and L-10B.

14. **QUESTION:** From L-07, are the details for the 'cobble lined drainage swale' and the 'dry creek' all requirements for the cobble swale?

RESPONSE: Yes.

15. **QUESTION:** General Note 18 on sheet 1-7 gives the design R-Value as 25. It also states that material with a lower R Value will not be placed or allowed to remain in place within the top 2 feet of finished subgrade. This could cause the Contractor to have to excavate and replace 2 feet below the trail for the length of the project. What is the Value of the in-place material, especially at the grade of the required excavation? The Contractor has no way to know this based on current information.

RESPONSE: The material placed over the structure on St. Francis Drive shall meet the R-value of 25. For the material used for the trail construction, most of the existing soils will be suitable for use as structural fill or backfill, although the removal of oversized particles may be required. All fill should be non-expansive, free of vegetation and debris, and contain no rocks larger than 3 inches. The gradation of backfill material, as determined in accordance with ASTM D-422, should be as follows:

Sieve Size	Percent Passing
3 inch	100
No. 4	60-100
No. 200	10-45

The plasticity index of the material shall be no greater than 15 when tested in accordance with ASTM D-4318. Boring logs are provided in the plans. Lab test results are attached to this addendum.

16. **QUESTION:** Bid Item #51 is for a well, however we can't find anywhere on the plans where this is required. Can you please provide more information if a well is required for the project?
RESPONSE: The well is a monitoring well located to the left of station 12+80 behind the wall RW-W1. The top of the existing well will be needed to be lowered to proposed grade.
17. **QUESTION:** Sheet L-21 calls for hand watering plants. There is no irrigation system shown on the prints. Is the Contractor to provide watering for the project, and if so, are we to water for a certain period?
RESPONSE: See response to question 7 on Addendum #3.
18. **QUESTION:** Bid Items #14 and #21 appear to be for structural concrete outside of the tunnel. Can you specify what structures are included in these bid items?
RESPONSE: These quantities are for the drilled shaft foundations shown on Sheet 8-6 for 3 existing street lights on St. Francis Drive and the 15 new ornamental trail lights.
19. **QUESTION:** Sheet 5-28 calls for a "cast in place concrete wall w/ formliner", however Alternate #2 also calls for a formliner as an additive alternate. Is the formliner required in the base bid, and if so, what walls get the formliner?
RESPONSE: See the responses to question 27 in Addendum #3 and question 1 in Addendum #4.
20. **QUESTION:** Bid Item #53 is for caboose relocation. Does the Owner have a preference of where the caboose can be temporarily stored during construction before relocation?
RESPONSE: The owner does not have a preference where to store the caboose. However, it appears to be possible, to relocate the caboose from its current location to its proposed location without having to temporarily relocate it offsite.
21. **QUESTION:** As we are gathering our information and bid quote for the project we have come across a discrepancy of itemized lists between the (CN S100390: Landscape complete and miscellaneous) versus the itemized list for landscape complete table found on Sheet LP -1.
RESPONSE: See addendum #3 for the response to this question.
22. **QUESTION:** The discrepancy we are finding is that several of the est. quantities for several items are different between the two tables (3, 8, 10, 11, 12 13, 15, 16, what we need to know is what list are we to follow to make our estimates for the landscape bid quote.
RESPONSE: See addendum #3 for the response to this question.
23. **QUESTION:** Also, we have not found where the ground cover 3/8" is located on the design plans; however, it is listed in CN S100390 Landscape Complete Itemized list #12
RESPONSE: See amended Notice to Contractor – Landscape Complete Itemized List issued in Addendum #3.

24. **QUESTION:** With type 1,2, 3 slabs, can strand spacing be adjusted so the out to out of the outer strands does not exceed 7'-0"
- RESPONSE:** Yes, provided that the beam design and reinforcement detailing are not affected, that the eccentricity specified in the table on each beam sheet is not changed, and that the Contractor submit a letter of certification for review and approval, stamped by a professional engineer licensed in the State of New Mexico, stating that the strand modification meets all applicable codes and that the Contractor's engineer is responsible for any modifications. All costs associated with the revision shall be incidental to Pay Item No. 518121 – Precast Prestressed Slab Type 21.
25. **QUESTION:** With type 4 slab can the strands be post tensioned in lieu of prestressing?
- RESPONSE:** Yes, provided that the beam design and reinforcement detailing are not affected, that the eccentricities specified in the table on each beam sheet are not changed, and that the Contractor submit calculations, post tensioning details, and post tensioning procedures for review and approval, stamped by a professional engineer licensed in the State of New Mexico, together with a letter stating that the post tension design meets all applicable codes and that the Contractor's engineer is responsible for any modifications. Post tensioning, and grouting of the post tension ducts per Section 520, shall be performed in the fabricator's yard prior to transport. All costs associated with the revision shall be incidental to Pay Item No. 518121 – Precast Prestressed Slab Type 21.
26. **QUESTION:** What is the R-value of the existing material at the site? The plans give a design R-Value and state that all material for 2' below finish subgrades must meet R-Value or be replaced. The Contractor has no way of knowing the existing value.
- RESPONSE:** See response to question 15 of this Addendum.
27. **QUESTION:** The Rainmakers in the Artwork Itemized List – the quantity is 30 each. The drawing on sheet A-03 shows 168 each. How many of these are we to bid on?
- RESPONSE:** Sheet A-03 specifies 160 total. Accordingly, an amended Artwork Complete – Itemized List Notice to Contractor is hereby issued as part of this Addendum, modifying the quantity to 160 each.
28. **QUESTION:** The handrail shown on sheet 5-39 consists of a C-Channel and a 6x4 tube. It appears the channel fastens to the wall the full height shown on HW-1, HW-3, and the stairs, and the tube is only for the top 42" (sheet L-16). Is this correct?
- RESPONSE:** Yes. See Sheets 5-35, 5-36, 5-37, 5-38, and 5-39 for additional information.
29. **QUESTION:** The Rainmaker Mesh and Handrail Inserts shown on landscape sheet L-15 & L-16. These appear to be part of the Landscaping Plan. How are these items paid?
- RESPONSE:** The mesh inserts shown on Sheets L-15 and L-16 for the metal railing shall be paid for under Bid Item 543100 – Metal Railing, Pedestrian.
30. **CLARIFICATION:** Per Lighting Incidental Items* note #6 on Sheet 8-1, electrical junction boxes specified on Sheet 8-5 for the pole lights shall be considered incidental to the project.

End of Addendum #4

March 22, 2016

NOTICE TO CONTRACTORS

Artwork Complete – Itemized List

CN S100390

An itemized list is required on this Project. The total Bid Item Unit Price for 667003 – Artwork Complete shall reflect all costs associated with the completion of the itemized list.

The Bidder shall submit the completed itemized list before Bid Opening. The Bidder shall submit the itemized list in the form of a zip file to the file attachment upload folder in the expedite .EBS file through Bid Express before Bid Opening. Refer to this Project's Advertisement for questions regarding this process.

Failure to comply with NTC shall result in the Bidder's Bid being rejected as non-responsive.

If quantities are increased or decreased the itemized list will be used to determine payment to the Contractor for the quantities of actual Work Accepted.

The total Lump Sum costs derived from the completed itemized list shall be entered in the Bid Schedule for the following Bid Item Number 667003 – Artwork Complete (LUMP SUM)

ITEMIZED LIST (ITEM DESCRIPTION)

LINE ITEM	DESCRIPTION	UNITS	EST. QUAN	UNIT PRICE	PRICE
1	STEEL RIBS AND LIGHT SHIELD	EACH	14		
2	TRANSLUCENT PANELS AND FRAMES	EACH	14		
3	SHADOW MAKER BIRDS	EACH	80		
4	MEDIAN RAINMAKERS (FRAME, VERTICAL & FASTENERS)	EACH	160		
5	SPECIALTY CONCRETE STAIN (LITHOCHROME)	GAL	33		
ITEM DESCRIPTION (LUMP SUM) = (Sum of Line Items 1 thru 5)					\$

All unit prices listed above shall be considered as complete in place inclusive of all labor and materials required to complete the work, as detailed in the construction plans, and no separate measurement or payment will be made.

END OF NOTICE

SUMMARY OF LABORATORY RESULTS

TEST HOLE	DEPTH (FEET)	UNIFIED CLASS	(% MOIST)	LL	PI	SIEVE ANALYSIS PERCENT PASSING											
						NO 200	NO 100	NO 40	NO 10	NO 4	3/8"	1/2"	3/4"	1"	1 1/2"	2"	4"
2	19.5	SM	14.5	NP	NP	23	33	51	81	93	99	100					
2	24.5	SC	9.5	26	9	32	41	56	77	84	89	89	94	100			
2	29.5	SM	13.2	NP	NP	23	32	50	80	91	99	100					
2	34.5		9.3														
2	39.5	SM	11.9	NP	NP	23	42	78	99	99	100						
2	44.5		8.5														
2	49.5	SM	10.2	NP	NP	13	25	66	86	90	91	92	100				
2	54.5		16.9														
2	59.5	SW-SM	8.5	NP	NP	10	17	49	83	91	95	96	100				
2	64.5		11.0														
2	69.5	SW-SM	8.2	NP	NP	10	16	44	82	94	94	96	100				
2	74.5		10.9														
2	79.5	SM	14.8	NP	NP	27	59	90	99	99	99	100					
3	4.5		11.2														
3	9.5	SP-SM	1.9	NP	NP	11	17	30	51	64	76	84	100				
3	14.5	SM	2.3	NP	NP	12	17	29	48	60	76	83	88	100			
3	19.5		14.5														
3	24.5	SM	6.6	NP	NP	21	30	50	80	89	94	94	100				
3	29.5	SM	7.6	NP	NP	22	30	49	84	96	100						

LL = LIQUID LIMIT
 PI = PLASTICITY INDEX
 NP = NON PLASTIC or NO VALUE



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

SUMMARY OF LABORATORY RESULTS

TEST HOLE	DEPTH (FEET)	UNIFIED CLASS	(% MOIST)	LL	PI	SIEVE ANALYSIS PERCENT PASSING														
						NO 200	NO 100	NO 40	NO 10	NO 4	3/8"	1/2"	3/4"	1"	1 1/2"	2"	4"			
3	34.5		9.9																	
3	44.5	SM	6.6	21	3	13	20	43	80	86	88	88	100							
3	49.5	SM	8.2	NP	NP	14	23	43	86	96	100									
3	54.5		10.3																	
3	59.5	SW-SM	8.0	NP	NP	11	20	58	98	100										
3	64.5		12.6																	
3	69.5		11.2																	
3	74.5		9.4																	
3	79.5		13.2																	
4	4.5	GC	6.9	38	17	39	44	50	55	56	58	62	65	65	100					
4	9.5		1.5																	
4	14.5	SM	4.1	NP	NP	16	26	43	58	64	70	72	76	76	100					
4	19.5	SM	7.0	NP	NP	19	29	48	83	93	97	98	100	100						
4	24.5	SM	11.1	29	5	23	33	51	78	89	94	95	100							
4	29.5	SM	7.6	23	3	20	30	50	66	72	74	76	82	82	100					
4	34.5	SM	8.1	25	3	13	24	58	92	98	100									
4	39.5	SW-SM	6.5	25	2	10	15	40	92	97	98	100								
4	44.5		7.0																	
4	49.5	SC	12.8	28	14	32	56	86	100											



LL = LIQUID LIMIT
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 NP = NON PLASTIC or NO VALUE

Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

SUMMARY OF LABORATORY RESULTS

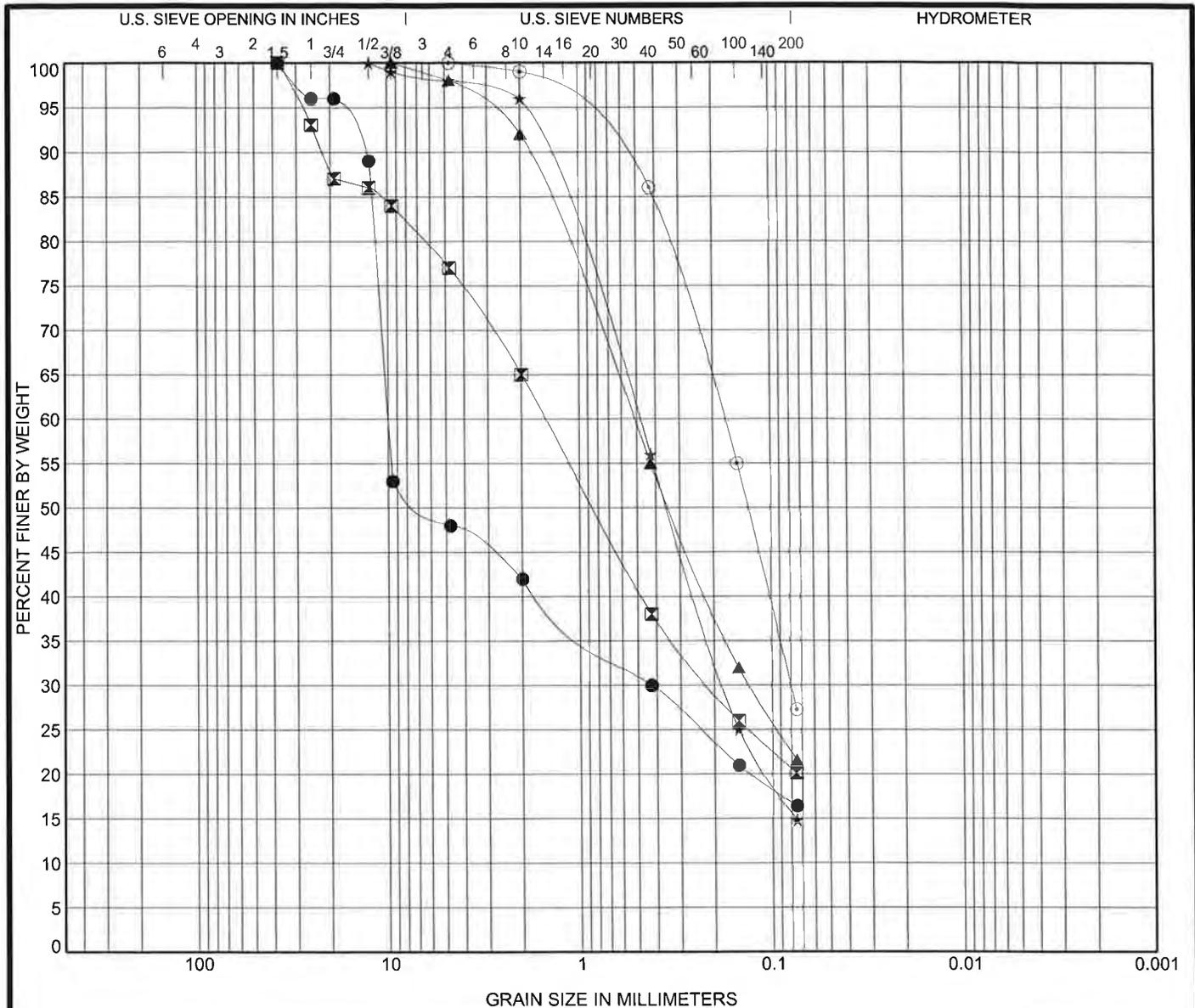
TEST HOLE	DEPTH (FEET)	UNIFIED CLASS	(% MOIST)	LL	PI	SIEVE ANALYSIS PERCENT PASSING												
						NO 200	NO 100	NO 40	NO 10	NO 4	3/8"	1/2"	3/4"	1"	1 1/2"	2"	4"	
6	19.5	SC	15.0	32	11	24	35	52	76	86	92	93	100					
6	24.5	SM	12.9	NP	NP	20	27	40	62	75	84	88	93	100				
6	29.5		10.9															
6	34.5	SM	6.5	NP	NP	14	21	35	64	74	79	81	82	100				
6	39.5	SM	9.4	NP	NP	14	22	53	90	98	100							
6	44.5		1.4															
6	49.5	SM	9.5	NP	NP	16	29	58	87	91	93	93	93	100				
6	54.5		7.4															
6	59.5	SC	9.2	23	11	28	39	66	92	96	99	100						
6	64.5		12.7															
6	69.5		9.2															

SUMMARY OF LABORATORY RESULTS 1-30704 ST. FRANCIS TRAIL.GPJ GEO TEST.GDT 8/8/14



LL = LIQUID LIMIT
 PI = PLASTICITY INDEX
 NP = NON PLASTIC or NO VALUE

Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 1 9.5	SILTY GRAVEL with SAND(GM)	NP	NP	NP		
☒ 1 19.5	SILTY SAND with GRAVEL(SM)	NP	NP	NP		
▲ 1 29.5	SILTY SAND(SM)	NP	NP	NP		
★ 1 39.5	SILTY SAND(SM)	NP	NP	NP		
⊙ 1 49.5	SILTY SAND(SM)	NP	NP	NP		

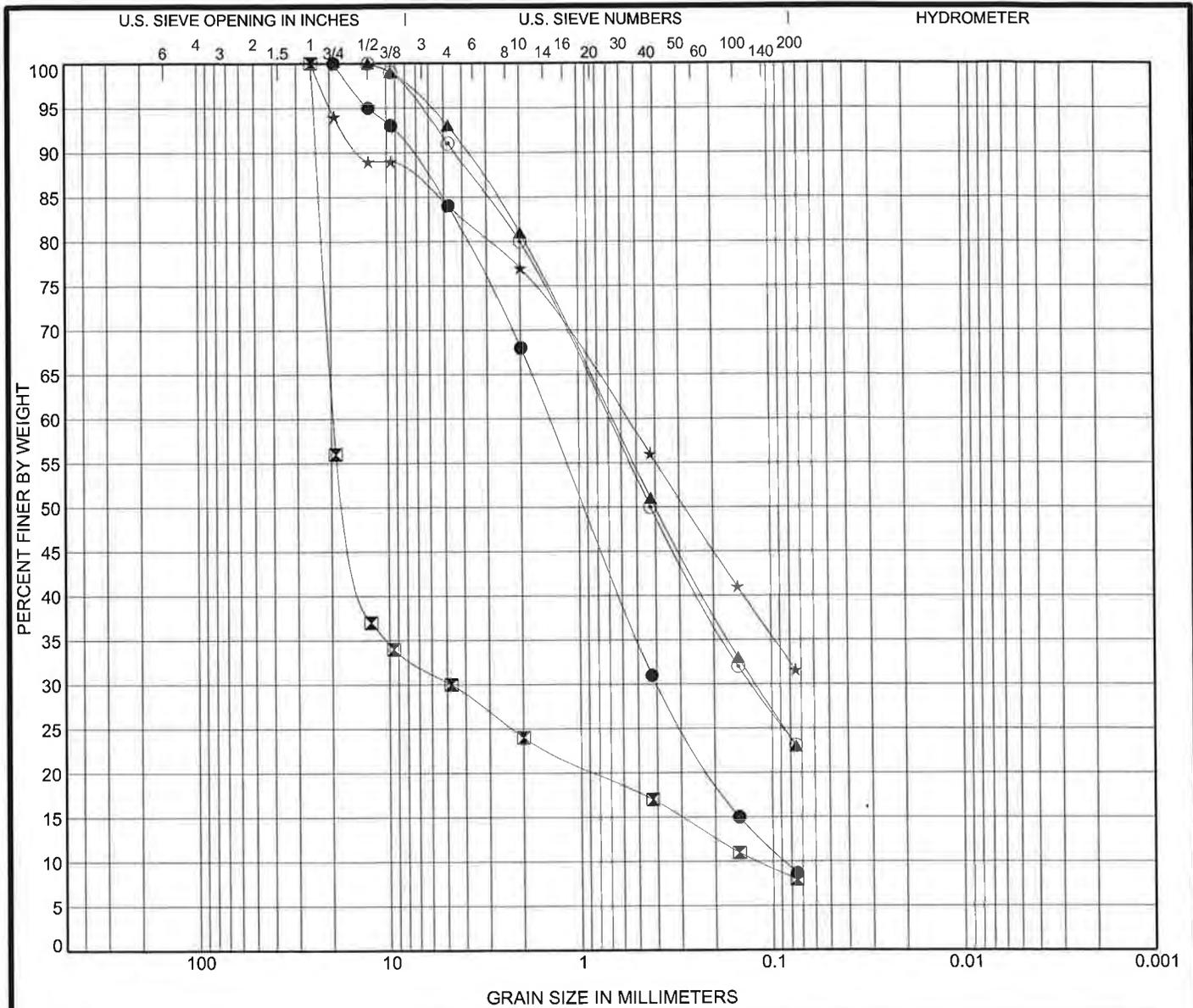
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 1 9.5	37.5	10.021	0.425		52.0	31.6	16.4	
☒ 1 19.5	37.5	1.501	0.212		23.0	56.9	20.1	
▲ 1 29.5	9.5	0.524	0.131		2.0	76.4	21.6	
★ 1 39.5	12.5	0.496	0.177		2.0	83.2	14.8	
⊙ 1 49.5	4.75	0.177	0.08		0.0	72.7	27.3	

GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704 ST. FRANCIS TRAIL GPJ GEO TEST.GDT 6/25/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

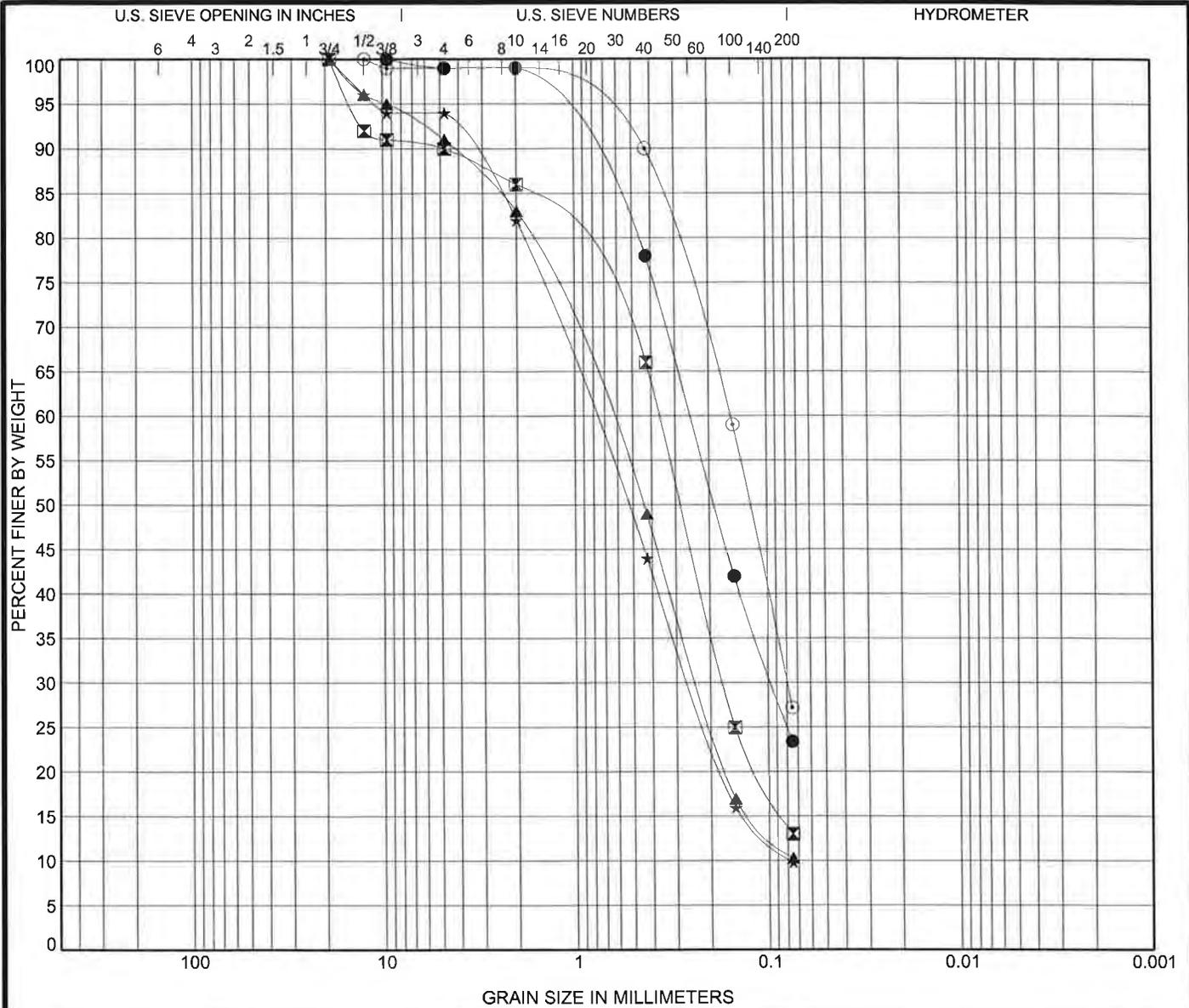
Specimen Identification	Classification					LL	PL	PI	Cc	Cu	
● 2	9.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)NP					NP	NP	NP	1.28	16.54
☒ 2	14.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GMP)					NP	NP	NP	9.73	163.62
▲ 2	19.5	SILTY SAND(SM)					NP	NP	NP		
★ 2	24.5	CLAYEY SAND with GRAVEL(SC)					26	17	9		
⊙ 2	29.5	SILTY SAND(SM)					NP	NP	NP		
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay			
● 2	9.5	19	1.431	0.398	0.087	16.0	75.3	8.7			
☒ 2	14.5	25	19.48	4.75	0.119	70.0	22.0	8.0			
▲ 2	19.5	12.5	0.676	0.122		7.0	70.0	23.0			
★ 2	24.5	25	0.571			16.0	52.4	31.6			
⊙ 2	29.5	12.5	0.712	0.128		9.0	67.9	23.1			

GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704-ST. FRANCIS TRAIL GPJ GEO TEST.GDT 6/25/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 2 39.5	SILTY SAND(SM)	NP	NP	NP		
☒ 2 49.5	SILTY SAND(SM)	NP	NP	NP		
▲ 2 59.5	WELL-GRADED SAND with SILT(SW-SM)	NP	NP	NP	1.03	9.65
★ 2 69.5	WELL-GRADED SAND with SILT(SW-SM)	NP	NP	NP	1.02	10.64
⊙ 2 79.5	SILTY SAND(SM)	NP	NP	NP		

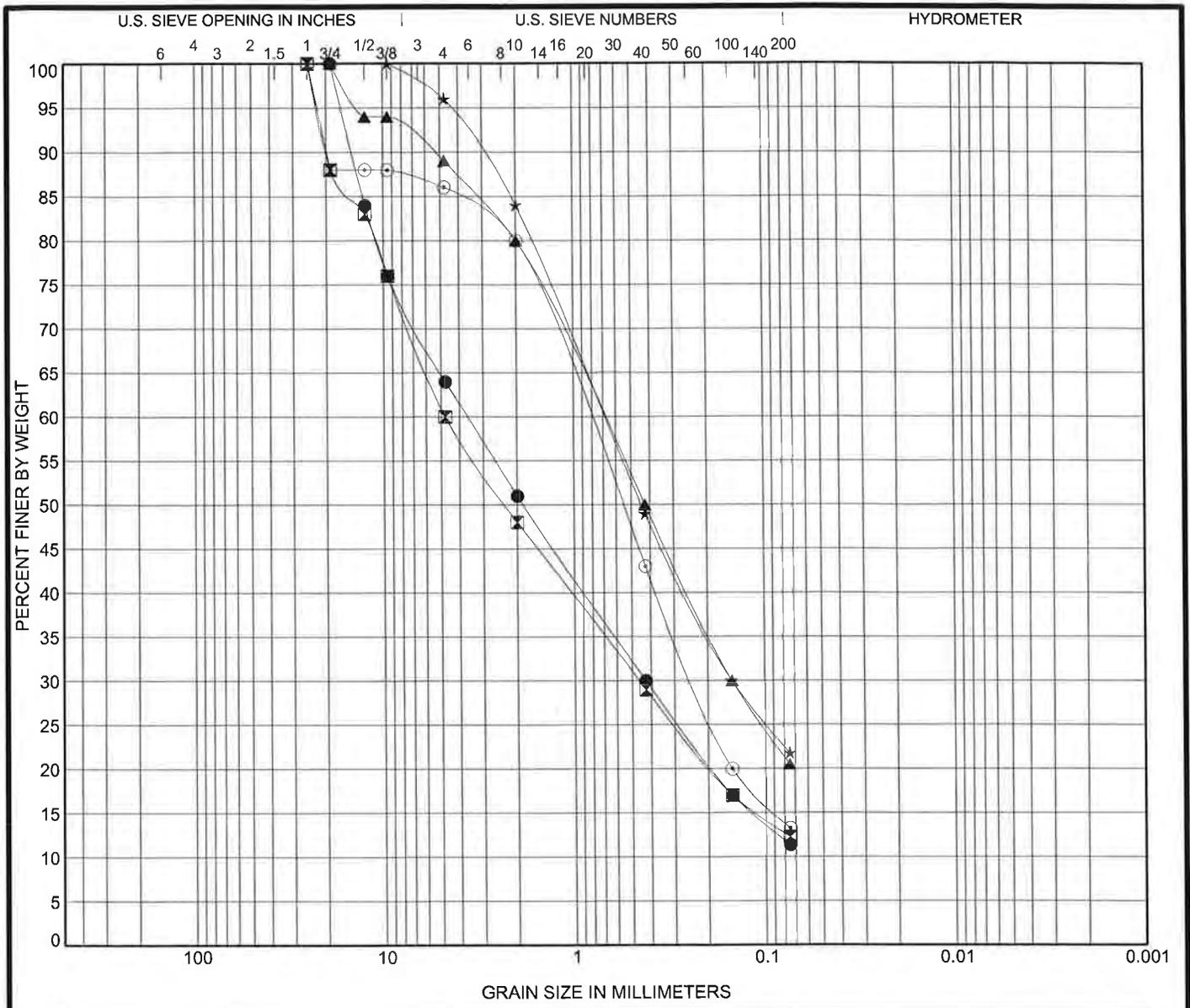
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 2 39.5	9.5	0.252	0.096		1.0	75.6		23.4
☒ 2 49.5	19	0.365	0.17		10.0	77.0		13.0
▲ 2 59.5	19	0.701	0.229		9.0	80.7		10.3
★ 2 69.5	19	0.816	0.252	0.077	6.0	84.2		9.8
⊙ 2 79.5	12.5	0.155	0.08		1.0	71.8		27.2

GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704 ST. FRANCIS TRAIL GPJ GEO TEST GDT 6/25/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 3	9.5 POORLY GRADED SAND with SILT and GRAVEL(SP-SM)P	NP	NP	NP	0.79	57.72
■ 3	14.5 SILTY SAND with GRAVEL(SM)	NP	NP	NP	0.84	88.91
▲ 3	24.5 SILTY SAND(SM)	NP	NP	NP		
★ 3	29.5 SILTY SAND(SM)	NP	NP	NP		
⊙ 3	44.5 SILTY SAND(SM)	21	18	3		

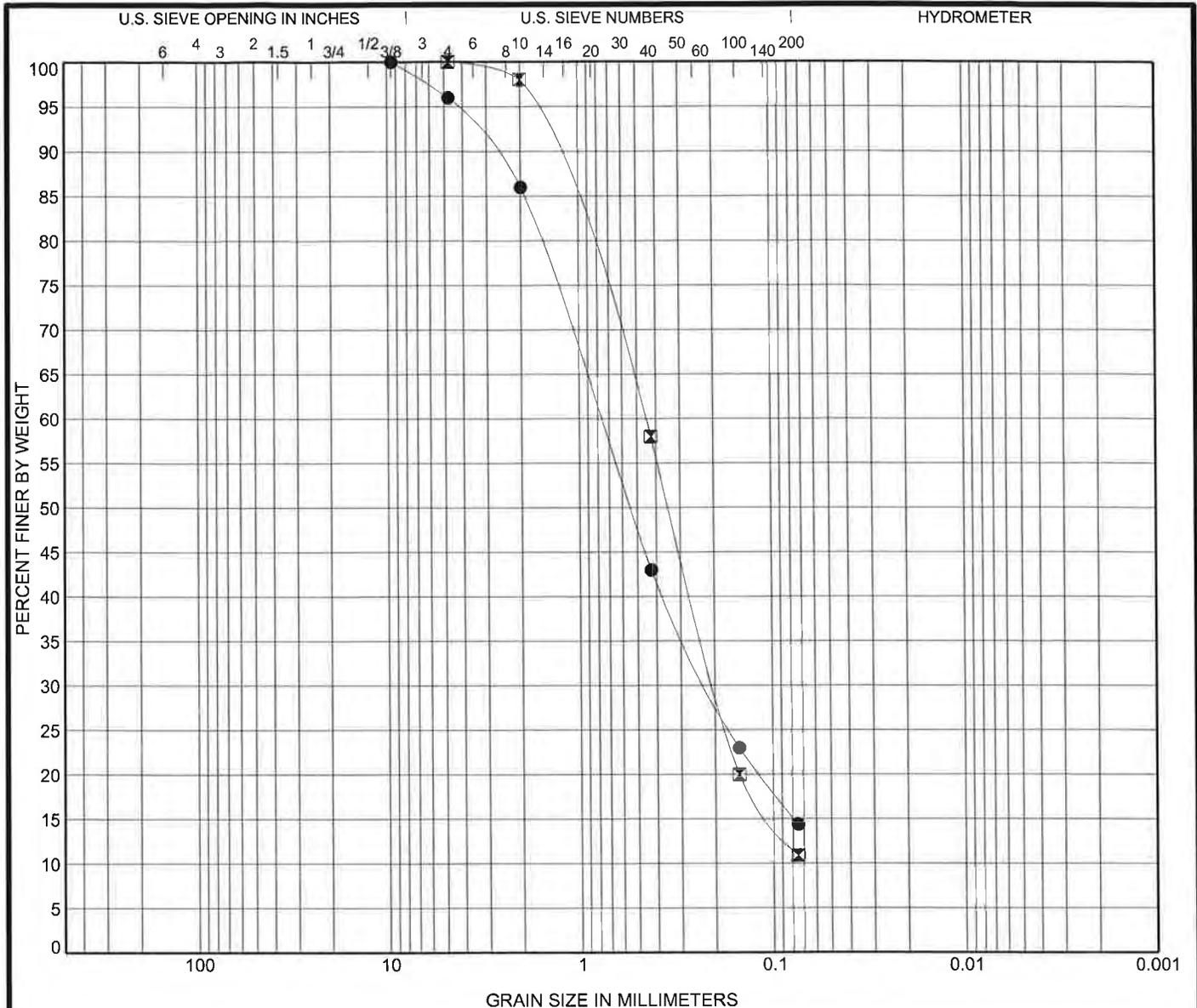
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 3	9.5	19	3.64	0.425	36.0	52.6	11.4	
■ 3	14.5	25	4.75	0.461	40.0	47.7	12.3	
▲ 3	24.5	19	0.712	0.15	11.0	68.5	20.5	
★ 3	29.5	9.5	0.691	0.15	4.0	74.2	21.8	
⊙ 3	44.5	25	0.866	0.236	14.0	72.7	13.3	

GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

U.S. GRAIN SIZE 1-30704 ST. FRANCIS TRAIL GPJ GEO TEST.GOT 6/25/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 3 49.5	SILTY SAND(SM)	NP	NP	NP		
☒ 3 59.5	WELL-GRADED SAND with SILT(SW-SM)	NP	NP	NP	1.21	6.56

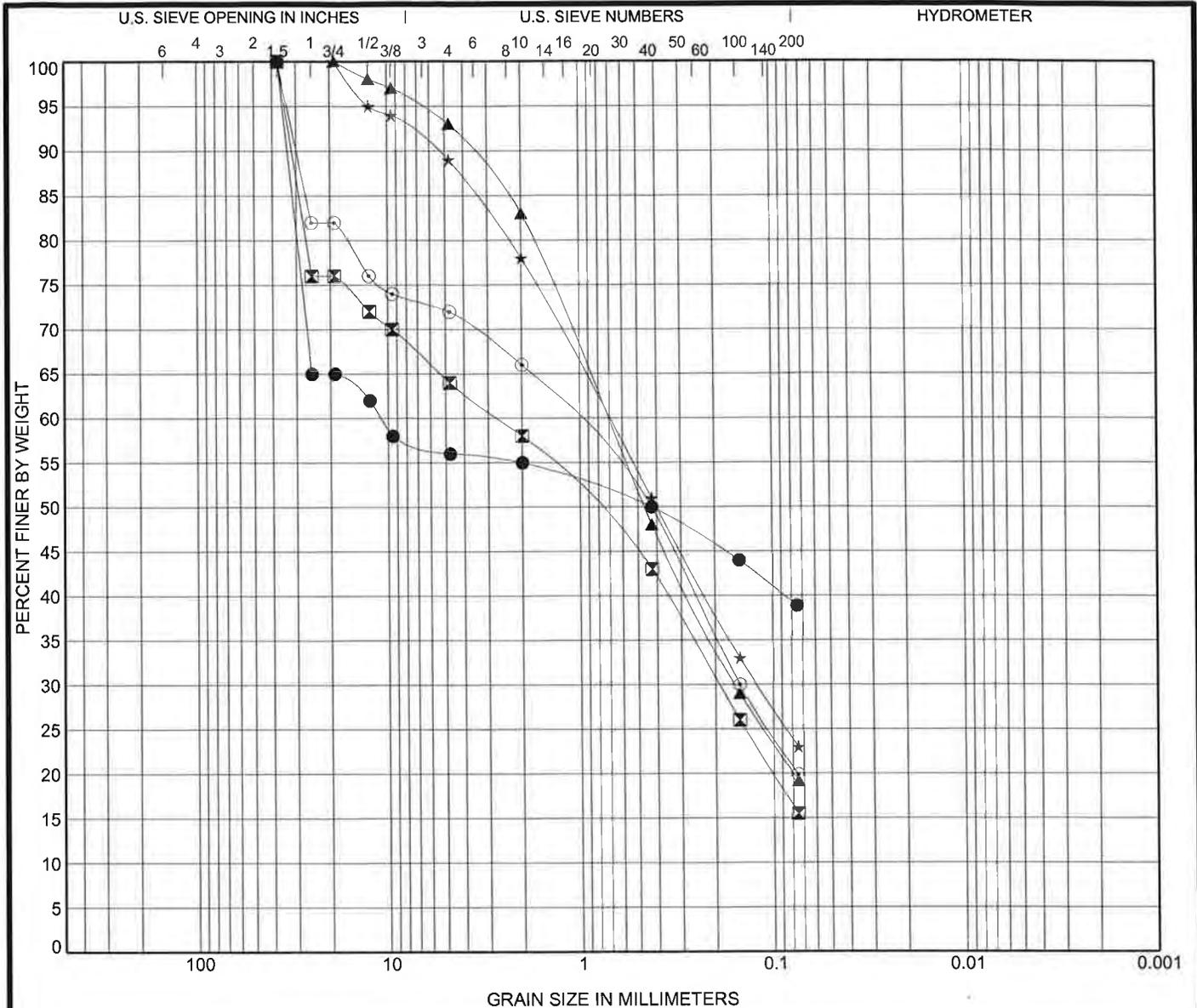
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 3 49.5	9.5	0.784	0.216		4.0	81.6	14.4	
☒ 3 59.5	4.75	0.459	0.197		0.0	89.1	10.9	



GRAIN SIZE DISTRIBUTION

Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704 ST. FRANCIS TRAIL GPJ GEO TEST.GDT 6/25/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 4 4.5	CLAYEY GRAVEL with SAND(GC)	38	21	17		
☒ 4 14.5	SILTY SAND with GRAVEL(SM)	NP	NP	NP		
▲ 4 19.5	SILTY SAND(SM)	NP	NP	NP		
★ 4 24.5	SILTY SAND(SM)	29	24	5		
⊙ 4 29.5	SILTY SAND with GRAVEL(SM)	23	20	3		

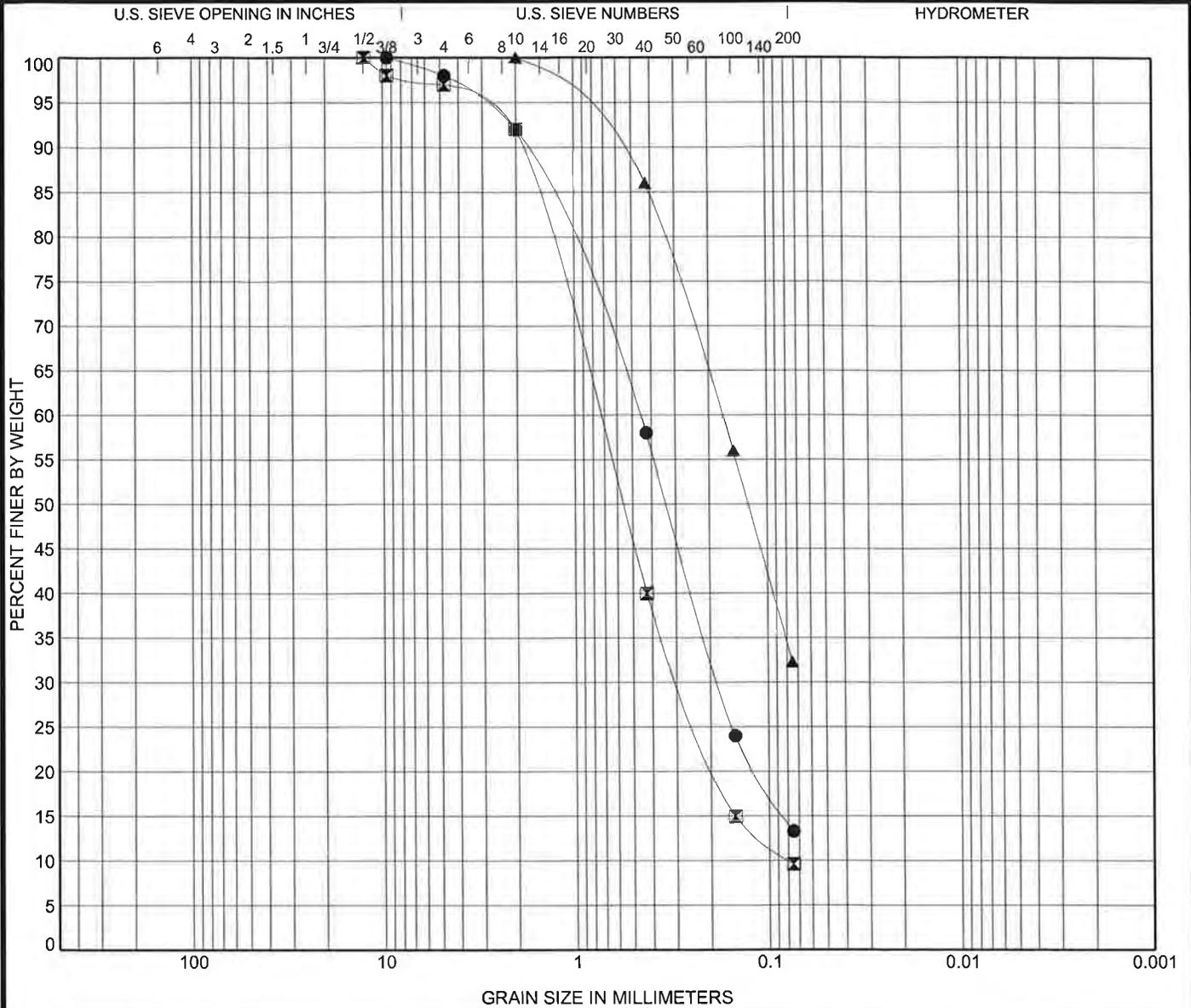
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 4 4.5	37.5	10.897			44.0	17.1		38.9
☒ 4 14.5	37.5	2.668	0.192		36.0	48.5		15.5
▲ 4 19.5	19	0.723	0.158		7.0	73.8		19.2
★ 4 24.5	19	0.712	0.122		11.0	66.0		23.0
⊙ 4 29.5	37.5	1.119	0.15		28.0	52.1		19.9

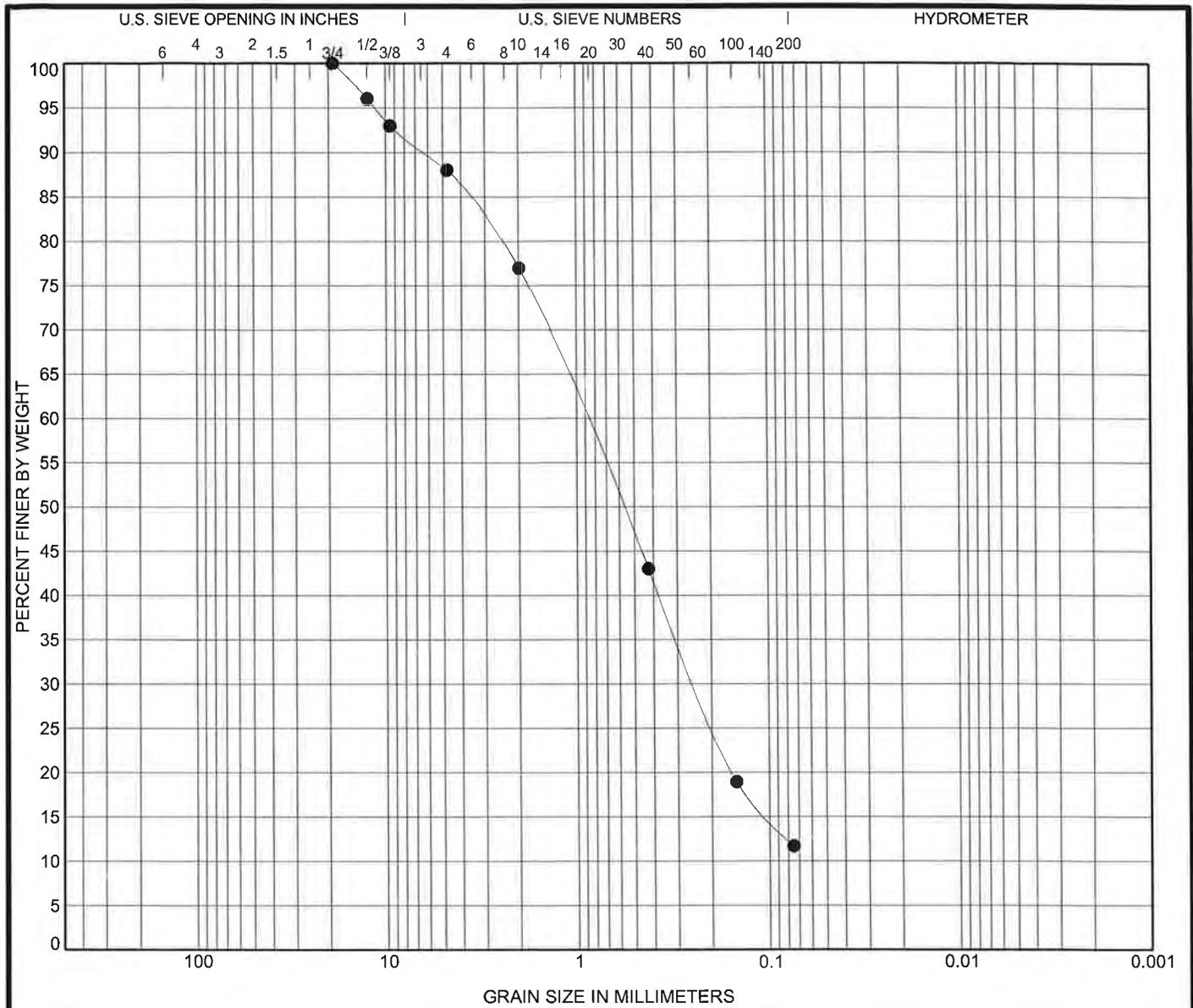
GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704 ST. FRANCIS TRAIL GPJ GEO TEST.GDT 6/25/14





COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 5 49.5	POORLY GRADED SAND with SILT(SP-SM)	25	23	2	0.99	14.45

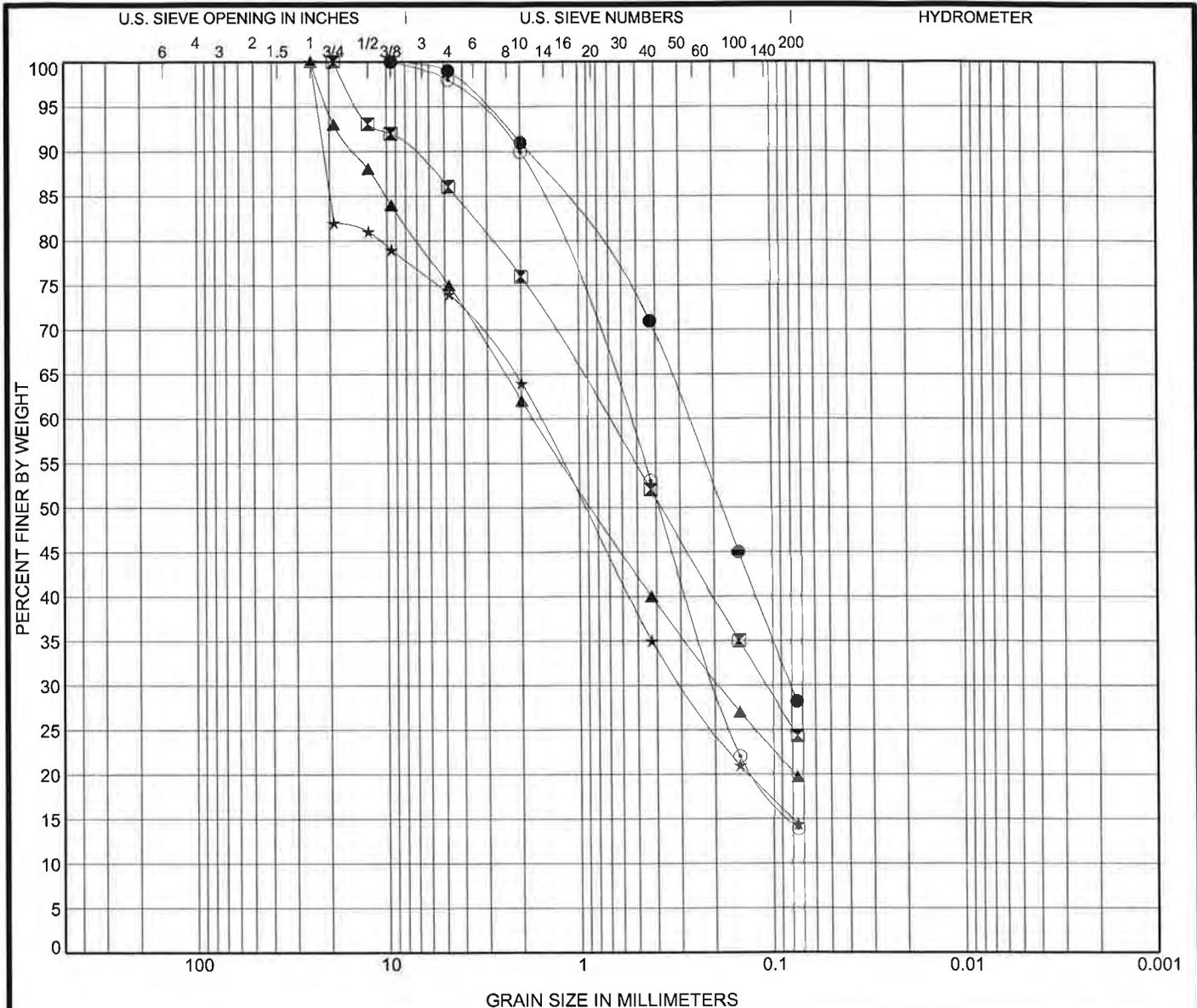
Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 5 49.5	19	0.922	0.242		12.0	76.3	11.7	

GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704 ST. FRANCIS TRAIL.GPJ GEO TEST.GDT 6/28/14



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● 6 9.5	SILTY SAND(SM)	NP	NP	NP		
☒ 6 19.5	CLAYEY SAND(SC)	32	21	11		
▲ 6 24.5	SILTY SAND with GRAVEL(SM)	NP	NP	NP		
★ 6 34.5	SILTY SAND with GRAVEL(SM)	NP	NP	NP		
⊙ 6 39.5	SILTY SAND(SM)	NP	NP	NP		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 6 9.5	9.5	0.274	0.081		1.0	70.8	28.2	
☒ 6 19.5	19	0.712	0.108		14.0	61.7	24.3	
▲ 6 24.5	25	1.737	0.191		25.0	55.3	19.7	
★ 6 34.5	25	1.615	0.293		26.0	59.6	14.4	
⊙ 6 39.5	9.5	0.57	0.196		2.0	84.1	13.9	

GRAIN SIZE DISTRIBUTION



Project: St. Francis Drive Trail Crossing
 Location: Santa Fe, New Mexico
 Number: 1-30704

US GRAIN SIZE 1-30704 ST. FRANCIS TRAIL GPJ GEO TEST.GDT 6/26/14

